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[Decisions of the Court of Appeals of the District of Columbia are indicated by the letter (*) and of the Supreme Court of the United States by the letter (s).]

ERRATA.

75,742 (Design), in heading, assignment, name of assignee, for "Milk Novelty Company" read *Mills Novelty Company.*

1,676,249, page 330, in heading, assignment, name of assignee, for "Aluminum Die-Casting Corporation, of Garwood, N. J." read *The United States Aluminum Company, a Corporation of Pennsylvania.*

1,677,090, page 508, in heading, assignment, name of assignee, for "Radio Frequency Laboratories, Incorporated, Boston, Mass." read *Radio Frequency Laboratories, Incorporated, Boonton, N. J.*

Patents Nos. 1,675,317 to 1,676,234.

THE

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Total	1,317			

Changes in Classification.

Order No. 3,051, June 18, 1928, directs:

In *class 29, Metal Working* (Division 13), abolish the following subclasses with their definitions, the patents formerly contained in these subclasses having been placed for the most part in class 76, Metal Tools and Implements, Making, subclasses 89.1, Tool sharpeners, Edge serrating, and 89.2, Tool sharpeners, Swaging, established in this order:

Sharpening
82 Edge serrating.
83 Swaging.

In *class 76, Metal Tools and Implements, Making* (Division 14), establish before subclass 82 and indented under the main class title the unnumbered title *Tool sharpeners*, indent thereunder subclasses 82–89, and change the title of subclass 82, "Cutting sharpeners," to *Cutting*.

In *class 76, Metal Tools and Implements, Making* (Division 14), establish the following subclasses and definitions, the patents contained in subclasses 82.1 and 82.2 having been taken for the most part from class 76, subclasses 82, Cutting sharpeners, and 88, Cutting sharpeners, Cutter and guide, and those contained in subclasses 89.1 and 89.2 having been taken for the most part from class 29, Metal Working, subclasses 82, Sharpening, Edge serrating, and 83, Sharpening, Swaging, abolished in this order:

Tool sharpeners
Cutting
82.1 Lawn mower.
82.2 Scissors.
89.1 Edge serrating.
89.2 Swaging.

82.1. TOOL SHARPENERS, CUTTING, LAWN MOWER. Devices coming under the definition of subclass 82 especially adapted to sharpen lawn mowers.

82.2. TOOL SHARPENERS, CUTTING, SCISSORS. Devices under subclass 82 especially adapted to sharpen scissors.

89.1. TOOL SHARPENERS, EDGE SERRATING. Machines, devices, and processes for serrating the metal adjacent to the edges of cutters, the serrations extending in most instances across the beveled portion of the blade and obliquely to the edge.

89.2. TOOL SHARPENERS, SWAGING. Machines and devices for sharpening metal tools by forging or rolling the metal adjacent to the edge.

In *class 76, Metal Tools and Implements, Making* (Division 14), in the definition of subclass 82, Tool sharpeners, Cutting, abolish paragraphs 1 and 2 of the note, and add to the definition of subclass 88, Tool sharpeners, Cutting, Cutter and guide, the following note: *See this class, subclass 82.2.*

In *class 188, Brakes* (Division 47), establish the following subclass and definition, the patents contained in this subclass having been taken for the most part from class 188, subclass 78, Wheel, Transversely movable, Expanding:

Wheel
Transversely movable
79.5 Wear take-up or compensating.

79.5. WHEEL, TRANSVERSELY MOVABLE, WEAR TAKE-UP OR COMPENSATING. Devices for adjusting or taking up slack or for compensating for wear in the brake shoes.

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims lised:

Pat. 1,584,230, J. C. Knight, Perforating machine, decided May 26, 1928, claims 1 and 2.

Pat. 1,626,516, B. E. Cramer, Can washer and steamer decided June 8, 1928, claims 1 and 2.

Final decisions in interferences have been rendered against the following trade-marks:

T. M. 142,462, Honey, strained and in the comb, California Honey Producers Cooperative Exchange, Los Angeles, Calif. Registered May 17, 1921. Decided June 4, 1928.

T. M. 145,959, Canned sardines, salad oil, olive oil, canned and dried fruits, Hammer & Co., San Francisco, Calif. Registered August 23, 1921. Decided May 4, 1928.

T. M. 220,137, Sardines, canned salmon, salad oil, olive oil, canned fruits, dried fruits, fresh deciduous fruits, fresh citrous fruits, grapes, and melons, Hammer & Co., San Francisco, Calif. Registered November 2, 1926. Decided May 4, 1928.

T. M. 234,780, Grapes, cherries, prunes, etc., V. J. Squillante, New York, N. Y. Registered November 1, 1927. Decided June 9, 1928.

3550

Condition of Applications Under Examination at Close of Business June 22, 1928.

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 106,908; Trade-Mark Division, 2,105. Oldest new case, Aug. 24, 1927; oldest amended, Sept. 10, 1927. The dates given are 1927 except where † indicates 1928.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders	Oct. 3	Nov. 4	1,536
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	Dec. 12	Dec. 22	1,553
331	3. LINDSEY, A., Electric Heating; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 24	Dec. 2	2,013
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus and Implements, and Pushing and Pulling.	Aug. 27	Sept. 27	2,228
108*	5. MACNAB, J. F., Harvesters; Jewelry; Music; Acoustics; Sound Recording; Knotters	Sept. 26	Oct. 10	1,635
313	6. LEWERS, A. M., Chemistry; Chemistry—Carbon Compounds	Nov. 2	Nov. 15	2,660
106	7. JARBOE, C. G., Amusement and Exercising Devices; Toys; Optics; Photography	Oct. 12	Oct. 11	2,468
133	8. HENRY, C. C., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Supports, Racks; Supports, Cabinet Structures.	Nov. 10	Nov. 14	2,570
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	†Jan. 18	†Jan. 20	1,542
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Oct. 22	Nov. 16	1,860
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather Manufactures; Nailing and Stapling; Whip Apparatus; Cutting and Punching Sheets and Bars.	Dec. 21	Dec. 14	1,504
380	12. PIERCE, P. P., Machine Elements	Sept. 15	Oct. 28	2,171
154*	13. CLIFT, J. W., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Nov. 28	Nov. 28	1,831
102*	14. BRUMBAUGH, N. J., Compound Tools; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Oct. 5	Oct. 4	1,705
329	15. REDROW, W. L., Glass; Plastic Block and Earthenware Apparatus; Plastics	Oct. 29	Oct. 29	2,304
242*	16. SPENCER, C. J., Batteries; Resistances and Rheostats; Telegraphy; Telephony	Dec. 15	Dec. 26	1,410
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Nov. 14	Dec. 2	1,344
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Nov. 7	Nov. 15	1,563
246	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Dec. 2	Nov. 30	1,660
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	†Jan. 12	†Jan. 11	1,470
212	21. THURBER, W. L., Winding and Reeling; Textiles; Cloth Finishing	Aug. 24	Nov. 10	1,572
244*	22. COLWELL, J. H., Aeronautics; Amusement Devices, Games; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Oct. 7	Nov. 19	1,923
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers; Horology; Time-Controlling Mechanism.	Oct. 3	Sept. 22	1,543
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Sept. 12	Sept. 16	1,563
314	25. LIGHTFOOT, J. H., Agitating; Bleaching and Dyeing; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Mills; Sugar and Starch; Threshing; Vegetable and Meat Cutters and Comminutors.	Nov. 10	Nov. 25	2,469
228*	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Oct. 20	Oct. 20	1,294
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Dec. 10	†Jan. 7	1,373
225	28. BENSON, A. R., Internal-Combustion Engines	Oct. 7	Oct. 28	2,090
160*	29. MORRIS, B. N., Abrading; Button Making; Coopering, Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Sept. 20	Oct. 3	1,891
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Typewriting Machines; Thermostats and Humidostats.	Nov. 5	Dec. 19	1,649
312	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue.	Nov. 29	Nov. 21	2,759
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Oct. 19	Oct. 6	2,257
152	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	†Jan. 28	†Jan. 28	2,143
304	34. SIMPSON, O. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Sept. 16	Sept. 10	1,514
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	†Jan. 10	Dec. 3	1,545
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Dec. 31	Dec. 27	1,812
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Oct. 28	Nov. 17	2,044
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Dec 6	Dec. 7	1,857
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Aug. 29	Sept. 19	1,693
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Package and Article Carriers; Receptacles	Sept. 24	Nov. 21	2,707
125	41. BROWN, J. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes	†Jan. 13	†Jan. 16	1,148
223*	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling	Oct. 24	Nov. 5	2,056
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members; Railway Draft Appliances.	Nov. 23	Dec. 21	2,283
253	44. SHAFFER, C. H., Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Refrigeration.	Oct. 7	Oct. 20	2,169
376	45. GILES, A. H., Pulleys and Shafting; Lubrication; Machine Elements; Bearings and Guides	Dec. 23	Dec. 23	1,639
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Oct. 1	Oct. 4	1,815
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Motors; Spring Devices.	Oct. 14	Oct. 20	2,778
213*	48. ROEPKE, O. B., Electricity, General Applications	Dec. 1	Nov. 23	1,437
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Ventilation; Velocipedes; Driers; Liquid Separation or Purification.	Oct. 7	Nov. 30	1,587
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Nov. 16	Nov. 18	2,509
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Nov. 12	Nov. 5	2,181
144	52. MORGAN, E. T., Supports; Chucks; Fire Escapes; Ladders; Scaffolds; Railway Mail Delivery; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Dec. 7	Dec. 2	2,273
143*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Nov. 2	Nov. 5	1,732
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Nov. 10	Nov. 10	2,278
102	55. RICHARD, V. I. {Bread, Pastry, and Confection Making; Cutlery	Oct. 12	Oct. 15	964
	{Designs	†Apr. 23	†Apr. 24	841
309	56. PORTER, F. J. (Acting), Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation.	Sept. 24	Sept. 28	2,503
163	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND {Trade-Marks	†May 23	†June 9	1,939
	{Labels and Prints	†June 6	†June 12	166

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

IN RE ALLSOP AND SIBSON.

No. 1,962. Decided May 7, 1928.

1. ESTOPPEL.

Where a patent to A. and S. was in an interference with an application of B., which contained claims other than those copied from the patent, and no attempt was made by A. and S. to bring about an interference between the B. application and an application filed by them a few days before the issuance of their patent, but after the issuance of the B. patent in view of an award of priority to him A. and S. canceled all the claims of their application and presented claims taken from the patent to B., *Held* that they are estopped to make such claims.

2. SAME.

"Should an interference now be declared and priority awarded appellants, the public would be prejudiced. The Buckley patent is dated July 8, 1924, and since that time the public, of course, has been excluded from the practice of the invention. Should a patent be issued to appellants, it is apparent that the public would be excluded from practicing the invention for a further period of 17 years from its date. This result is directly attributable to the deliberate failure of appellants to act when they should have acted."

APPEAL from the Commissioner of Patents. Affirmed.

Mr. Frank B. Fox and *Mr. E. G. Mason* for Allsop and Sibson.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.:*

Appeal from a decision of the Commissioner of Patents refusing to allow claims 1 to 12, inclusive, 15, 16, 19 and 56.

The invention relates to steam-heated drying machines. The present application was filed November 14, 1919. There was then pending another application of appellants covering related subject matter. A patent was issued on this prior application November 18, 1919, or four days after the present application was filed.

On March 19, 1920, Joseph L. Buckley filed an application in which he copied 10 claims of appellants' patent. Interference was declared April 6, 1920, between the Buckley application and appellants' patent, and on May 4, 1923, priority was awarded appellants. Buckley acquiesced in this award, and cancelled the interfering claims. The Buckley application from its filing date contained claims that did not read on appellants' patent, and, therefore, on July 8, 1924, a patent issued to Buckley carrying these claims.

Appellants' present application when filed contained no claims that conflicted with the claims of the Buckley application, but on September 12, 1924, or more than four years later, and after the issuance of the Buckley patent, appellants filed an amendment canceling all the claims of their application, and inserting 56 new claims, of which claims 2 to 7 and 56 are claims 1 to 7 of the Buckley patent. The Examiner, the Board of Examiners in Chief, and the Commissioner, all ruled that in the circumstances appellants were estopped to make these claims.

Section 4904 Revised Statutes authorizes the Commissioner of Patents, upon the filing of an application which in his opinion "would interfere with any pending application, or with any unexpired patent," to declare an interference "to determine the question of priority of invention," but there were no claims in appellants' application that conflicted with the claims of the Buckley application, and evidently "in the opinion of the Commissioner" the applications did not conflict. That the then view of the Commissioner was not unreasonable is made to appear not only from the fact that appellants' application contained no conflicting claims, but from the further fact that appellants finally canceled all the claims in their application and amended their specification. In other words, for about four years, during the pendency of the Buckley application, appellants, with full knowledge of it, failed to make any claims conflicting therewith, and because of such failure the Buckley patent was issued without the declaration of an interference.

Since it required more than four years for appellants to discover interfering subject matter in the two applications, it is not strange that the Commissioner did not of his own motion declare an interference. In the circumstances he was quite justified, when he issued the Buckley patent, in assuming appellants would make no claim to the invention therein disclosed. Buckley was without fault, because he was without knowledge of appellants' application.

Should an interference now be declared and priority awarded appellants, the public would be prejudiced. The Buckley patent is dated July 8, 1924, and since that time the public, of course, has been excluded from the practice of the invention. Should a patent be issued to appellants, it is apparent that the public would be excluded from practicing the invention for a further period of 17 years from its date. This result is directly attributable to the deliberate failure of appellants to act when they should have acted. The object of the patent laws is the stimulation of invention for the benefit of the public, and where, as here, the Commissioner of Patents acts in the interests of the public, and without prejudice to the real rights of applicants, he should be upheld.

The Patent Office has found, and we agree in the finding, that the other claims involved are drawn to the same general subject matter as the claims to which we have referred.

In our view, the decision was right, and is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

STEELE, MARTIN, AND MCCARTHY *v.* CHUBB.

No. 2,031. Decided February 6, 1928.

INTERFERENCE—PRIORITY.

Priority *Held* properly awarded to the junior party, C.

Mr. Robert Watson for Steele et al.

Mr. W. G. Carr and *Mr. O. B. Bachman* for Chubb.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.:*

Appeal from concurrent decisions of the Patent Office tribunals in an interference proceeding awarding priority as to the three claims to the junior party, Chubb.

The issue relates to a method of electrically welding metallic parts by moving one of such parts with respect to and into contact with the other through the path of the electric arc formed between them. The arc is maintained "automatically" (count 3), "under electric control" (count 4), and "automatically controlled" (count 8) for a determined period.

The invention is of a complicated character, and the decision of the Patent Office ought not to be disturbed unless error is clearly made to appear. We have examined the record and the briefs of counsel. Being convinced of the correctness of the conclusion reached, we affirm the decision.

Affirmed.

Court of Appeals of the District of Columbia.

CHUBB *v.* SHORT.

No. 2,035. Decided February 6, 1928.

INTERFERENCE—PRIORITY—DILIGENCE.

Where S., who was the first to conceive the invention, first submitted it to the War Department and afterwards employed different patent attorneys, eventually filing his application about 14 months after C., *Held* that while S. may have been overcautious he was acting in good faith, was not lacking in diligence in reducing the invention to practice, and that priority was properly awarded to him.

Mr. Jesse R. Langley for Chubb.

Mr. W. F. Hall and *Mr. E. S. Middleton* for Short.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.:*

Appeal from a decision of the Commissioner of Patents in an interference proceeding awarding priority to the junior party, Short.

The invention is highly technical, comprising as it does means for functionalizing the beams of an automobile headlight, and means, such as shields, for approaching drivers which permit, or are supposed to permit, unobjectionable light to pass therethrough, but which are supposed to cut off the direct rays and thereby eliminate glare.

There are three counts, but count 1 will be sufficient for our purposes, and reads as follows:

1. The headlight apparatus for automobiles or other vehicles comprising a pair of headlights provided with emission polarizing devices to form a beam of light transmitted ahead of the vehicle and substantially polarized in a definite plane, and polarized light viewing devices adapted to be mounted adjacent the eyes of the driver of the vehicle to substantially cut off light polarized in said plane to thereby minimize the objectionable headlight glare of a similarly equipped approaching vehicle.

The Chubb application was filed July 29, 1920. Since he has taken no testimony, he is restricted to his filing date for conception, disclosure, and constructive reduction to practice.

The Examiner of Interferences found that Short conceived and disclosed the invention as early as November 6, 1919, and this ruling was accepted by the other tribunals and is not challenged by Chubb. It is contended by Short that he reduced the invention to practice prior to Chubb's filing date, but in the view we take of the case it is unnecessary to determine this question. He is an engineer, and at the time of making the invention was a captain in the Ordnance Department of the United States Army. He solicited the assistance of the patent branch of that Department, and on November 6, 1919, submitted to it a written description and drawing of his invention. Applications for patent were prepared by the Ordnance Department, but these applications were not satisfactory to Short, and on May 19, 1920, which it will be observed was a short time prior to Chubb's filing date, Short consulted a prominent firm of patent attorneys for the purpose of having an application or applications prepared. Again, he was not satisfied with what was done by this firm; and consulted another firm, by whom the application was prepared, and was filed on September 26, 1921. The Examiner of Interferences and the board ruled that Short was lacking in diligence, and awarded priority to Chubb. The Commissioner, after an analysis of the evidence, reached the conclusion that Short had shown diligence, and therefor awarded him priority. The Commissioner said:

Short may have been too critical as to the work of his attorneys; he may have had a misconception of the true nature of the patentable characteristics of his invention; he may have been overcautious in the preparation of his application; he may have taken the wrong course at times; he may have blundered in some instances; but from the record he cannot be charged with want of diligence.

We agree with the Commissioner. As we have frequently said, diligence is a relative term. *Burnett* v. *Utsman*, 245 O. G. 1027, 46 App. D. C. 407; *Jobski* v. *Johnson*, 247 O. G. 479, 47 App. D. C. 230; *Dickinson* v. *Swinehart*, 273 O. G. 191, 49 App. D. C. 222. The attorney who finally prepared Short's application testified that the whole theory of light is more or less uncertain and a subject of controversy; that—

it was perfectly easy to understand Mr. Short's broad concept, but I encountered serious difficulty in preparing a description of the invention which should disclose it in simple, clear-cut terms and which should at the same time avoid the use of technical terms, whose exact meaning was not authoritatively defined.

Considering the highly technical character of the invention and that Short probably knew more about it than anyone else, he may have been overcautious as to the preparation of his application, but there can be no doubt that he was acting in good faith and at all times diligently attempting to have his application completed and filed. In the circumstances, it would be inequitable to deprive him of the invention.

By writ of certiorari Short has added to the record his brief before the Commissioner. We think this was unnecessary, and the costs incident thereto will be taxed against him.

The decision is affirmed.

Affirmed.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

787,814, J. D. Wolf, Separation of metals from their ores, D. C., S. D. Ohio, W. Div., Doc. E 255, *Wolf Mineral Process Corp.* v. *Eagle-Picher Lead Co.* Dismissed for want of prosecution May 3, 1928.

1,014,002, J. V. Hogan, jr., Apparatus for wireless signaling, D. C., S. D. N. Y., Doc. E 43/82, *J. V. Hogan* v. *C. Freshman Co., Inc.* Consent order of discontinuance Apr. 28, 1928.

1,022,140, C. Hubert, Portable lighter, filed Apr. 20, 1928, D. C., N. D. Ill., E. Div., Doc. 8129, *M. E. Bernhardt Co., Inc.*, v. *Fay Mfg. Co.*

1,142,361, G. Ornstein, Process of antisepticising water, filed Apr. 27, 1928, D. C., S. D. Ind. (Terre Haute), Doc. E 58, *Electro Bleaching Gas Co. et al.* v. *Vincennes Water Co.*

1,233,063, J. Komorous, Container, D. C., W. D. N. Y., Doc. 590–D, *Parisian Novelty Co.* v. *Bastian Bros. Co.* Dismissed May 2, 1928.

1,262,860, S. B. Smith, Incubator, C. C. A., 3d Cir., Doc. 3698, *W. F. Hillpot* v. *The Buckeye Incubator Co. et al.* Affirmed (notice dated Apr. 16, 1928).

1,281,877, Teste & Mallvert, Automobile horn, filed May 2, 1928, D. C., E. D. Mich., S. Div., Doc. 2655, *J. T. Rhamstine* v. *The Sparks Withington Co.*

1,290,011, Hirsch & Hirsch, Making castings of rare-earth metals, filed May 3, 1928, D. C., S. D. N. Y., Doc. E 45/140, *Alpha Products Co., Inc.*, v. *Saks & Co., Inc.*

1,294,250, C. V. Elliott, Arc-welding electrode, filed Apr. 16, 1928, D. C., N. D. Ill., E. Div., Doc. 8117, *General Electric Co.* v. *C. H. Hollup Corp. et al.*

1,302,584, L. Olsen, Method of forming bearings, D. C., E. D. Wis. (Milwaukee), Doc. 1975, *American Bearing Corp.* v. *Milwaukee Die Casting Co.* Decision for defendant dismissing bill Apr. 26, 1928.

1,310,698, H. Hill, Paper or similar cup, appeal filed Apr. 30, 1928, C. C. A., 2d Cir., Doc. 10048, *Tulip Cup Corp. et al.* v. *Ideal Cup Corp.*

1,341,458, S. E. Finley, Method of treating roadways, D. C., N. D. Ga. (Atlanta), Doc. E 175, *S. E. Finley* v. *MacDougald Construction Co.* Decree for plaintiff May 5, 1928.

1,357,702, C. Gottwald, Vitrified-tile conduit, D. C., S. D. N. Y., Doc. E 44/79, *The Ric Wil Co.* v. *Johns-Manville Corp.* Dismissed without prejudice May 4, 1928.

1,366,768, S. J. Clulee, Construction for eyeglasses, filed May 1, 1928, D. C., W. D. N. Y., Doc. 1228–F, *American Optical Co.* v. *Design Mfg. Co.*

1,368,809, M. A. Kohn, Garbage incinerator, filed Apr. 3, 1928, D. C., N. D. Ill., E. Div., Doc. 8087, *M. A. Kohn* v. *Cribben & Sexton Co.*

1,379,872, B. H. Marcus, Hook or eye, filed Apr. 28, 1928, D. C., S. D. N. Y., Doc. E 45/103, *H. Low* v. *Interwoven Hook & Eye Co., Inc., et al.*

1,383,035, C. R. Short, Bearing shim, filed May 8, 1928, D. C., S. D. N. Y., Doc. E 45/145, *General Motors Corp. et al.* v. *Lehr Auto Supply Co., Inc.*

1,391,738, F. E. Key, Sealing paste, filed May 5, 1928, D. C. Mass., Doc. E 2968, *Key Boiler Equipment Co.* v. *A. M. Coleman.*

1,411,777, S. E. Finley, Method of applying binding media to road surfaces, D. C., N. D. Ga. (Atlanta), Doc. E 223. *S. E. Finley* v. *MacDougald Construction Co.* Decree for defendant May 5, 1928.

1,447,090, J. E. Langsdorf, Necktie, filed May 9, 1928, D. C., S. D. N. Y., Doc. E 45/151, *Franc-Strohmenger & Cowan, Inc.*, v. *J. Fefferman et al.* (*Fefferman & Wells*), Doc. E 45/152, *Franc-Strohmenger & Cowan, Inc.*, v. *H. Berkman et al.* (*Berkman & Adler*).

1,468,190, D. J. Young, Making illuminating gas, filed Apr. 17, 1928, D. C., N. D. Iowa (Cedar Rapids), Doc. E 118, *Young-Whitwell Gas Process Co.* v. *Cedar Rapids Gas Co.*

1,518,791, G. W. Hedstrom, Drying machine, appeal filed Apr. 5, 1928, C. C. A., 7th Cir., Doc. 4033, *American Can Co.* v. *O. Hedstrom et al.*

1,540,548, G. F. Downer, Process of producing storage batteries, D. C., S. D. N. Y., Doc. E 23/5, *G. F. Downer* v. *The Prest-O-Lite Co., Inc.* Dismissed May 9, 1928.

1,543,424, C. W. Cowles, Light-source covering, D. C., S. D. N. Y., Doc. E 40/352, *S. W. Borden* v. *Deal Electric Co., Inc.* Patent sustained May 2, 1928.

1,561,836, N. Q. Donnelly, Apron, filed May 3, 1928, D. C. Mass., Doc. E 2966, *Donnelly Garment Co.* v. *N. Nemer.* Doc. E 2967, *Donnelly Garment Co.* v. *N. E. Haddad et al.* (*Royal Apron Mfg. Co.*).

1,570,943, A. F. Case, Car dumper, filed Apr. 23, 1928, D. C., N. D. Ill., E. Div., Doc. 8132, *The Wellman Seaver Morgan Co.* v. *Link Belt Co.*

1,590,982, E. B. Morris, Farrowing house, appeal filed Apr. 25, 1928, C. C. A., 8th Cir. (St. Louis), Doc. 8176, *C. E. Lantz et al.* v. *E. B. Morris et al.* Same, filed May 3, 1928, C. C. A., 8th Cir. (St. Louis), Doc. 8179, *E. B. Morris et al.* v. *C. E. Lantz et al.*

1,594,047, E. F. Clark, Pocket cigar lighter, D. C., S. D. N. Y., Doc. E 44/151, *W. G. Clark & Co., Inc.*, v. *L. K. Liggett Co.* Dismissed May 8, 1928.

1,601,575, L. C. Marshall, Piston packing, filed Apr. 30, 1928, D. C., N. D. Ohio, E. Div., Doc. 2563, *The Simplex Piston Ring Co. of America, Inc.*, v. *The Automotive Bearing & Equipment Co.* Same, filed May 1, 1928, D. C., S. D. N. Y., Doc. E 45/117, *The Simplex Piston Ring Co. of America, Inc.*, v. *M. Weissberger* (*The Triangle Auto Parts Co.*). Same, D. C., R. I. (Providence), Doc. 294, *The Simplex Piston Ring Co. of America, Inc.*, v. *J. Cookcroft et al.* (*Cookcroft-Clayton Co.*). Doc. 295, *The Simplex Piston Ring Co. of America, Inc.*, v. *T. Z. Carpenter et al.* (*Hall Carpenter Mfg. Co.*). Same, D. C., N. D. Ga. (Atlanta), Doc. E 495, *The Simplex Piston Ring Co. of America, Inc.*, v. *Georgia Machinery Co.* Same, D. C., E. D. Mich., S. Div., Doc. 2648, *The Simplex Piston Ring Co. of America, Inc.*, v. *P. S. Hunt* (*Miracle Piston Ring Co.*). Same, D. C., W. D. N. Y., Doc. 1804–G, *The Simplex Piston Ring Co. of America, Inc.*, v. *M. Gordon et al.* (*Rochester Automobile Spring Co.*). Same, filed Apr. 30, 1928, D. C. Wash. (Seattle), Doc. 628, *The Simplex Piston Ring Co. of America, Inc.*, v. *Triangle Automotive Parts Co.* Same, D. C., N. D. Ill., E. Div., Doc. 8192, *The Simplex Piston Ring Co. of America, Inc.*, v. *Auto Replacement Parts Co.* Doc. 8193, *The Simplex Piston Ring Co. of America, Inc.*, v. *L. C. Smith Bearings Co.*

1,603,580, S. Cahill, jr., Meter-sealing means, filed May 1, 1928, D. C., E. D. La. (New Orleans), Doc. 19079, *S. Cahill, jr., et al.* v. *Louisiana Power & Light Co.*

1,604,247, B. H. Urschel, Automobile link, filed May 8, 1928, D. C., N. D. Ohio, W. Div., Doc. E 881, *The Urschel Engineering Co.* v. *The Universal Machine Co.*

1,608,243, A. L. Schavoir, Fabricated cork sheet, D. C., E. D. Mich (Detroit), Doc. 2105, *New Process Cork Co., Inc.*, v. *Springman Paper Products Co.* Patent held valid and infringed May 2, 1928.

1,613,333, J. M. Stone, Loop aerial, filed Apr. 19, 1928, D. C., N. D. Ill., E. Div., Doc. 8126, *Trav-Ler Mfg. Corp.* v. *Hyatt Electric Corp.*

1,656,751, W. L. Myers, Buckle, filed May 10, 1928, D. C., S. D. N. Y., Doc. E 45/154, *L. A. Myers, jr., Inc.*, v. *The Riker Co.*

1,661,038, N. E. Ham, Calendar stand, filed Apr. 19, 1928, D. C., N. D. Ill., E. Div., Doc. 8127, *Defiance Sales Corp.* v. *The Associated Stationers Supply Co.*

Re. 16,194, R. Bass, Presser for velour, bolivia, etc., D. C., S. D. N. Y., Doc. E 36/264, *R. Bass et al.* v. *J. Puretz* (*N. Y. Pressing Iron Co.*). Patent sustained Apr. 27, 1928.

T. M. 47,189, The Coca Cola Co., Nutrient or tonic beverage, D. C., S. D. Iowa (Keokuk), Doc. E 4053, *The Coca Cola Co.* v. *C. E. Ward* (*Burlington Beverage Co.*). Decree for plaintiff Apr. 20, 1928.

Des. 69,502, J. L. Druckleb, Book end, filed Apr. 20, 1928, D. C., N. D. Ill., E. Div., Doc. 8130, *House of Originations, Inc.*, v. *The W. H. Howell Co. et al.*

Des. 69,569, R. G. Cowan, Flower holder, D. C., N. D. Ohio, E. Div., Doc. 2452, *Cowan Pottery Studio, Inc.*, v. *S. S. Kresge Co.* Dismissed without prejudice Apr. 4, 1928.

Des. 73,884, I. Weisenfreind, Beverage container, filed Apr. 27, 1928, D. C., S. D. N. Y., Doc. E 45/101, *I. Weisenfreind et al.* (*Century Silver Mfg. Co.*) v. *Lehman Bros. Silverware Corp.*

Extension of Patents for World War Veterans.

[PUBLIC—No. 623—70TH CONGRESS.]

An Act Providing for the extension of the time limitations under which patents were issued in the case of persons who served in the military or naval forces of the United States during the World War.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That any person who served honorably in the military or naval forces of the United States at any time between April 6, 1917, and November 11, 1918, both dates inclusive, and was subsequently honorably discharged, may within six months after the enactment of this Act, upon payment of a fee of $20, make application to the Commissioner of Patents, comprising a verified statement, accompanied by supporting evidence of the following facts:

(A) That he is the inventor or discoverer of an invention or discovery for which a specified patent was granted prior to the 11th day of November, 1918, the original term of which remains unexpired at the time of the filing of the application.

(B) That between April 6, 1917, and November 11, 1918, and also at the time of the passage of this Act, he held, by ownership or contract, a right in said invention or under said patent or to income by way of royalty or otherwise therefrom, whereby an extension of the term of said patent would benefit him.

(C) That between April 6, 1917, and July 2, 1921, he was not receiving from said patent an income, or that his income therefrom was reduced by his said service.

(D) That at the time of his induction into the service he was making diligent effort to exploit the invention covered by his patent.

(E) The names of all persons, firms, or corporations, if any, holding at the time of the passage of this Act, by grant, transfer, license, or contract from him, any right or interest in the invention or discovery or under the patent, and their consent to the extension for which application is made, which shall be supported by an instrument, or instruments, executed by all such persons, firms, and corporations, evidencing their consent to such extension.

(F) The period of extension of the patent from the expiration of the original term thereof, for which he applies, which shall in no case exceed a further term of three times the length of his said service in the military or naval forces of the United States between the dates of April 6, 1917, and July 2, 1921, but exclusive of any reenlistment subsequent to November 11, 1918.

(G) That the licensee of a patent affected by this Act shall automatically be granted an extension of said license for the period of the extension on the same terms and conditions as contained in said existing license, thereby creating an equitable adjustment of the benefits of this Act.

(H) That such extension shall in no way impair the right of anyone who before the passage of this Act was bona fide in possession of any rights in patents or applications for patents conflicting with the rights in any patents extended under this Act, nor shall any extension granted under this Act impair the right of anyone who was lawfully manufacturing before the passage of this Act the invention covered by the extended patent.

SEC. 2. In the case of a veteran, as described in paragraph 1 of this Act, who dies, or has died, or who becomes insane or unable to act, which veteran owned an interest as described in this Act in said patent at the time of his death or at the time he was declared mentally incompetent or became unable to act before said extension is granted, such application may be filed or proceeded with by his legal representatives substantially as provided in section 4896 of the Revised Statutes of the United States (United States Code, title 35, section 46), as amended, with respect to proceedings in such cases for obtaining a patent.

SEC. 3. On the filing of such application the Commissioner of Patents shall cause an examination thereof to be made, and if, on such examination, it shall appear that such application conforms, or by amendment or supplement is made to conform, to the requirements of section 1 of this Act, the Commissioner shall cause notice of such application to be published at least once in the OFFICIAL GAZETTE. Any person who believes that he would be injured by such extension may within forty-five days from such publication oppose the same on the ground that any of the statements of the application for extension required by section 1 of this Act is not true in fact, which said notice of opposition shall be verified before an officer authorized by the laws of any State or Territory or the District of Columbia to administer oaths. In all cases where notice of opposition is filed the Commissioner of Patents shall notify the applicant for extension thereof and set a day of hearing. If after such hearing the Commissioner of Patents is of the opinion that such extension should not be granted, he may deny the application therefor, stating in writing his reasons for such denial. Where an extension is refused the applicant therefor shall have the same remedy by appeal from the decision of the Commissioner as is now provided by law where an application for patent is refused. If no opposition to the grant of the extension is filed, or if, after opposition is filed, it shall be decided that the applicant is entitled to the extension asked for, the Commissioner of Patents shall issue a certificate that the term of said patent is extended for the additional period for which application has been made as aforesaid, and shall cause notice of such extension to be published in the OFFICIAL GAZETTE and marked upon copies of the patent for sale by the Patent Office, in such manner as the Commissioner may determine.

SEC. 4. Thereupon said patent shall have the same force and effect in law as though it had been originally granted for seventeen years plus the term of such extension: *Provided, however,* That in any action, at law or in equity, for infringement after the expiration of seventeen years from the grant of the patent and during the period of such extension, the defendant may plead the general issue, and having given notice in writing to the plaintiff or his attorney thirty days before, may prove on trial that any of the statements of the application for extension required by section 1 of this Act is not true in fact; and if any one or more of such statements shall be found untrue in fact, judgment shall be rendered for the defendant, with costs: *Provided further,* That no person whose patent shall be extended under the provisions of this Act shall be permitted to make any claim for damages against the United States for the period of the extension, and the rights of the United States shall remain in all respects as if these patents had not been extended.

Approved, May 31, 1928.

Adjudicated Patents.

(D. C. Pa.) The Millspaugh patent, No. 1,205,822, for improvement in paper-making machines, claims 2 and 3 *Held* valid and infringed. *Guardian Trust Co.* v. *Downington Mfg. Co.*, 25 F. (2d) 878.

(C. C. A. N. J.) The Riches & Piver patent, No. 1,237,815, for process of manufacturing calcium arsenate as an insecticide, *Held* invalid and not infringed. *Riches, Piver & Co.* v. *Nitrate Agencies Co.*, 25 F. (2d) 860.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 3, 1928.

[VOL. 372. No. 1.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 263,348. RICHARD YOUNG COMPANY, New York, N. Y. Filed Mar. 17, 1928.



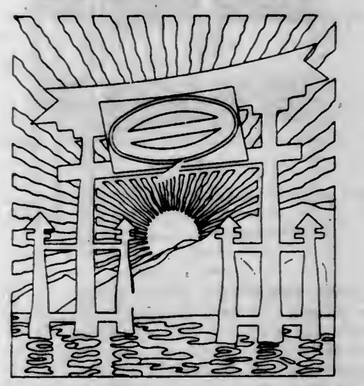
No claim is made to the exclusive use of the word "Sheep" apart from the mark shown in the drawing.

For Leather.

Claims use since about Nov. 28, 1927.

Ser. No. 263,603. GUNMAKEN RAW SILK CORPORATION OF AMERICA, New York, N. Y. Filed Mar. 22, 1928.

JOSHUSHA



For Raw Silk.

Claims use since Feb. 2, 1928.

CLASS 2.

Receptacles.

Ser. No. 260,571. FRED I. JADEN, doing business as F. Jaden Manufacturing Co., Hastings, Nebr. Filed Jan. 24, 1928.

GOLDEN ROD

For Oil Cans.

Claims use since about February, 1925.

Ser. No. 262,786. ISAAC APPELBAUM, doing business as The Hangerette Company, New York, N. Y. Filed Mar. 8, 1928.

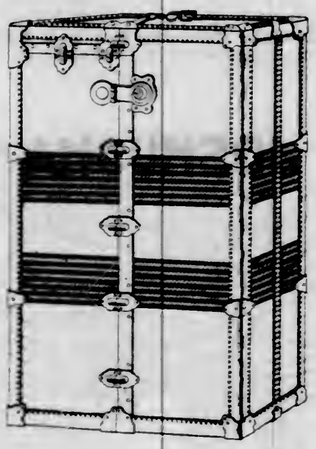
HANGERETTE

For Foldable Cardboard Containers for Men's, Women's, and Children's Wearing Apparel.
Claims use since Mar. 14, 1927.

CLASS 3.

Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 229,979. THE OSHKOSH TRUNK COMPANY, Oshkosh, Wis. Filed Apr. 10, 1926.



The lining in the drawing for the bands or stripes is for the purpose of shading only. Applicant disclaims the representation of the trunk as shown except with respect to the stripes or bands thereon. Applicant is the owner of registrations Nos. 202,709 and 202,710.
For Wardrobe Trunks, Dress Trunks, Cabin or Steamer Trunks; Shoe, Shirtwaist, and Hat Trunks, Hat Trunks, Shoe or Boot Trunks, and Hand Luggage, Such as Visiting Cases, Portable Wardrobe Trunks, and Taxi Trunks.
Claims use since Mar. 27, 1915.

Ser. No. 260,134. ANDRÉ PERUGIA, Paris, France. Filed Jan. 14, 1928.

Perugia

The trade-mark is a facsimile of the essential part of applicant's signature.
For Satchels, Hand Bags, Traveling Bags, Valises, Trunks, Vanity Packages, Hat Boxes, and Brief Cases Made from Leather.
Claims use since 1923.

Ser. No. 261,950. THE DERCO TRUNK CO., Los Angeles, Calif. Filed Feb. 20, 1928.

DERCO TRUNKS

Exclusive use of the word "Trunks" is disclaimed apart from the mark as shown in the drawing.
For Trunks, Such as Wardrobe Trunks, Wardrobe Cases, Automobile Trunks, and Hand Luggage Such as Traveling Bags, Suit Cases, Hat Boxes, and Empty Lunch Kits.
Claims use since about Jan. 15, 1928.

Ser. No. 263,246. WHITE LUGGAGE CO., INC., New York, N. Y. Filed Mar. 15, 1928.

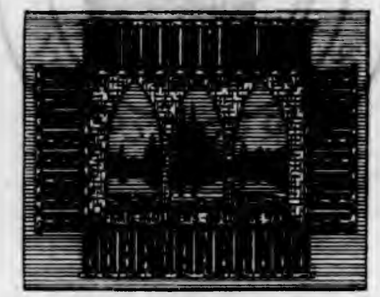
Touro-Lite

For Hat Boxes.
Claims use since Nov. 16, 1927.

CLASS 4.

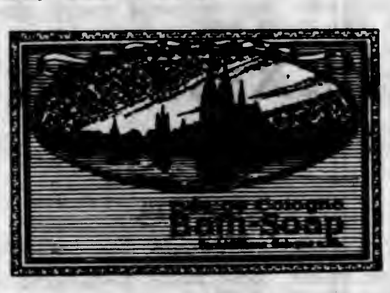
Abrasive, Detergent, and Polishing Materials.

Ser. No. 242,048. DIE EAU DE COLOGNE- & PARFÜMERIE-FABRIK "GLOCKENGASSE No. 4711" GEGENÜBER DER PFERDEPOST VON FERD. MÜLHENS, Cologne-on-the-Rhine, Germany. Filed Dec. 28, 1926.



The wording appearing in the mark, except the name "Ferd. Mülhens," is disclaimed. The ground color of the trade-mark is greenish blue with gold and black.
For Soaps Including Toilet Soaps and Shaving Sticks.
Claims use since March, 1926.

Ser. No. 242,102. DIE EAU DE COLOGNE- & PARFÜMERIE-FABRIK "GLOCKENGASSE No. 4711" GEGENÜBER DER PFERDEPOST VON FERD. MÜLHENS, Cologne-on-the-Rhine, Germany. Filed Dec. 29, 1926.



The wording appearing in the mark, except the name "Ferd. Mülhens," is disclaimed. The ground color of the mark is greenish blue with gold and black.
For Soaps Including Shaving Sticks.
Claims use since March, 1926.

Ser. No. 257,808. THE MENTHOLATUM COMPANY, Wichita, Kans., and Buffalo, N. Y. Filed Nov. 19, 1927.

MENTHOLATUM

For Shaving Cream for Use Before Shaving, and Soap Shampoo.
Claims use since June 15, 1927.

Ser. No. 259,706. WILLIAM EARL BAUER, doing business as Bauer & Bauer, Norristown, Pa. Filed Jan. 5, 1928.

SCARAB RAY

For Household Cleansing Preparation.
Claims use since May 6, 1927.

Ser. No. 259,707. WILLIAM EARL BAUER, doing business as Bauer & Bauer, Norristown, Pa. Filed Jan. 5, 1928.



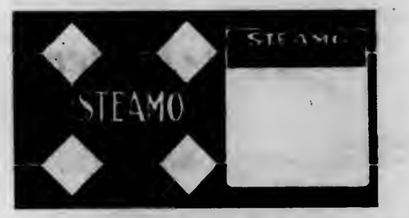
For Household Cleansing Preparation.
Claims use since May 6, 1927.

Ser. No. 265,708. WEBB BELTING CO., Kansas City, Mo. Filed Apr. 30, 1928.

SLIP-KNOT

For Belt Dressing in Liquid and Stick Form.
Claims use since about 1918.

Ser. No. 266,440. RECKITT & SONS, LIMITED, Hull, England. Filed May 15, 1928.



For Polishing and Cleaning Preparations for Glass.
Claims use since Nov. 23, 1926.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 235,360. THE BRADIGAN TABLET CONCERN, Jamestown, N. Y. Filed July 30, 1926.



Exclusive use of the words "Constipation, Pleurisy, Kidney, Liver, Neuralgia, Catarrh, The, Great, Tablets, For Rheumatism," is disclaimed except as used in connection with the mark as shown. The vertical shade lines indicate the color red and the shade lines inclined at forty-five degrees indicate green.
For Medicinal Preparations for the treatment of Constipation, Pleurisy, Catarrh, Neuralgia, Rheumatism, and Kidney and Liver Complaints.
Claims use since July 2, 1926.

Ser. No. 253,938. CHAPPEL BROS., INC., Rockford, Ill. Filed Aug. 25, 1927.

HEMO-GLYCOGEN

No claim is made to the term "Glycogen" apart from the mark as a whole.
For Liver Extract and Hemoglobin Compound.
Claims use since Aug. 11, 1927.

Ser. No. 256,772. OSCAR L. GABRIEL, doing business as Happie-Easter Dye Company, Brooklyn, N. Y. Filed Oct. 29, 1927.

"Happie-Easter"

For Dyes.
Claims use since Oct. 15, 1927.

Ser. No. 260,302. E. B. WITTE, doing business as Heal-Ol Laboratories, Trenton, N. J. Filed Jan. 18, 1928.

HEAL-OL

For Antiseptic Solution.
Claims use since on or before Aug. 14, 1918.

Ser. No. 264,101. HEINE & Co., New York, N. Y. Filed Mar. 31, 1928.

SAPOFIXIN

For Natural and Synthetic Oils Suitable for Perfumery Purposes.
Claims use since May 26, 1926.

Ser. No. 264,548. THE ESPE DRUG CO., Subsidiary of Model Drug Stores, Incorporated, Louisville, Ky. Filed Apr. 7, 1928.

Bi-Sor-Bin

For Medicine Used for Relief of Indigestion, Flatulence, Heartburn, Sour Stomach, Dyspepsia, Bad Breath, and Nausea and as an Antacid, Digestant, and Gas Eliminant.
Claims use since Jan. 3, 1928.

CLASS 7.

Cordage.

Ser. No. 266,807. HANOVER CORDAGE COMPANY, Hanover, Pa. Filed May 22, 1928.

"MEX-CILIAN"

For White-Fibre Twine.
Claims use since Feb. 2, 1928.

CLASS 10.

Fertilizers.

Ser. No. 266,099. ERICH REINAU, Berlin-Steglitz, Germany. Filed May 8, 1928.



For Fertilizing Material in the Form of Briquettes, Which When Subjected to Heat Release Gases for the Fertilization of Plants.
Claims use since May, 1923.

CLASS 12.

Construction Materials.

Ser. No. 257,645. WALTER R. THURSTON, doing business as Norm Manufacturing Co., Los Angeles, Calif. Filed Nov. 16, 1927.

Norm Joint Paste

The words "Joint Paste" are disclaimed apart from the mark as shown.
For Joint Paste.
Claims use since Oct. 6, 1927.

Ser. No. 262,441. JAMES B. BERRY'S SONS COMPANY, Chicago, Ill. Filed Mar. 1, 1928.



ASPHALT PRODUCTS

Exclusive right to the use of the words "Asphalt Products" is disclaimed except in the association shown.
For Solid-Asphalt Products—Namely, Asphalt for Paving and Road Building, Roofing, Waterproofing, Pipe Coating, and Insulation.
Claims use since November, 1927.

Ser. No. 263,392. HARRISON LUMBER COMPANY, Portland, Oreg. Filed Mar. 19, 1928.

HALCO

For Lumber.
Claims use since Oct. 8, 1925.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 261,293. VEREINIGTE STAHLWERKE AKTIENGESELLSCHAFT, Dusseldorf, Germany. Filed Feb. 6, 1928.



For Fence Wire, Wire Gauze for Hop and Vine Cultivation, Fence and Hedge Wire, Wire Netting, Barbed Wire, Wire and Metal Fabrics, Wire Nails, Metal Clips for Securing Wire and Wire Gauze and Braid, Sliding Metal Loops or Rings for Securing Wire and Wire Gauze and Braid, Rivets, and Screws.
Claims use since 1877.

Ser. No. 261,462. I. SHAININ & Co., New York, N. Y. Filed Feb. 9, 1928.



For Base-Metal Bowls, Candy Dishes, and Jars; Door Knockers, Flower Holders, Mechanically-Operated Gongs, Jardinières, Jars, Platters, Tea Kettles, Tea Service, Trays, Vases, and Wall Shelf Brackets.
Claims use since Nov. 1, 1926.

Ser. No. 262,704. FRANK G. DELBON, Brooklyn, N. Y. Filed Mar. 7, 1928.

TRIPAD

For Metal Shanks for Shoes.
Claims use since about Oct. 10, 1926.

Ser. No. 263,429. THE SANDS MANUFACTURING COMPANY, Cleveland, Ohio. Filed Mar. 19, 1928.

RAPID ACTION

The words "Rapid Action" are disclaimed apart from the mark as shown. The hatching in drawing denotes orange color.
For Thermo-Siphon Discharge Fittings for Fluid-Holding Tanks.
Claims use since on or about Mar. 16, 1928.

Ser. No. 265,193. J. A. CAMPBELL, Long Beach, Calif. Filed Apr. 21, 1928.

PRESORVAC

For Pressure Control and Relief Valves for Oil and Similar Tanks.
Claims use since on or about July 10, 1927.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 264,688. THE KILBORN & BISHOP CO., New Haven, Conn. Filed Apr. 11, 1928.

ZONE DOME

For Traffic Markers to be Inserted in Pavements at Street Crossings to Indicate Lines of Traffic.
Claims use since Sept. 1, 1927.

Ser. No. 264,785. VULCAN CRUCIBLE STEEL CO., Aliquippa, Pa. Filed Apr. 13, 1928.

HARDRITE

For Steel.
Claims use since Aug. 25, 1926.

Ser. No. 266,153. STOODY COMPANY, Whittier, Calif. Filed May 9, 1928.

ARGYTE
A STOODY PRODUCT

For Metal Alloy of Exceeding Hardness and Used for Drilling, Boring, and the Like.
The words "Stoody Product" are disclaimed.
Claims use since Apr. 16, 1928.

CLASS 15.

Oils and Greases.

Ser. No. 264,262. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Apr. 3, 1928.

COREX

For Petroleum and Products of Petroleum, with or without Admixture of Other Materials for Illuminating, Heating, Power, Burning, Lubricating, Greasing, Solvent, Sealing, Waxing, Waterproofing, Coating, Rust Preventing, Surface Preserving, and Tempering.
Claims use since Mar. 2, 1928.

Ser. No. 265,938. THE ZIP ABRASIVE COMPANY, Cleveland, Ohio. Filed May 4, 1928.

ZACO
PENETRATING OIL

Exclusive use of the words "Penetrating Oil" apart from the mark as shown is disclaimed.
For Lubricating Oils.
Claims use since Nov. 5, 1927.

Ser. No. 266,222. SINCLAIR REFINING COMPANY, New York, N. Y. Filed May 10, 1928.

SCOUT

For Lubricating Oils.
Claims use since Mar. 12, 1928.

Ser. No. 266,223. SINCLAIR REFINING COMPANY, New York, N. Y. Filed May 10, 1928.

COMMODORE

For Lubricating Oils.
Claims use since Mar. 12, 1928.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 263,336. OLD GOLD COMBINATION WHITE LEAD AND COLOR CORPORATION, New York, N. Y. Filed Mar. 17, 1928.

OLD GOLD

For Paints and Painters' Materials—Viz, White Lead, Zinc Lead, Colors Ground in Linseed Oil, Ready-Mixed Paints, Varnishes, Stains, Paint Enamels, Flat Paints, and Prepared Shellacs.
Claims use since Jan. 23, 1928.

Ser. No. 264,370. LOUIS FOLLMAN, New York, N. Y. Filed Apr. 5, 1928.

JAPAN FLAT



No claim is made to the exclusive use of the words "Japan Flat" apart from the mark as shown in the drawings.
For Ready-Mixed Paint.
Claims use since about March, 1926.

Ser. No. 264,770. JAMES A. MCCAFFERTY & SONS MANUFACTURING COMPANY, INC., Brooklyn, N. Y. Filed Apr. 13, 1928.

JAMES A. McCAFFERTY'S GOLD SEAL



Applicant is the owner of registration No. 22,066 (renewed) and No. 167,896.
For White Lead, Combination White Leads, White-Lead Substitutes, Zinc Whites, Zinc-Lead Compounds and Combinations, Colors in Oil, Ready-Mixed Paints, Paint Enamels, Varnishes, Liquid Driers, Stains, Flat Paints, Glass Paints, and Lacquers.
Claims use since 1879.

Ser. No. 265,699. JOSEPH CHRISTOPHER SHEPARD, Wilmington, N. C. Filed Apr. 30, 1928.

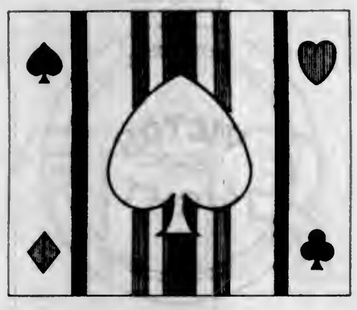
Pinesol

For Ready-Mixed Paints, Varnishes, Floor Dressings, and Fillers.
Claims use since on or about Apr. 20, 1917.

CLASS 17.

Tobacco Products.

Ser. No. 255,047. BATT BROTHERS, New York, N. Y. Filed Sept. 22, 1927.



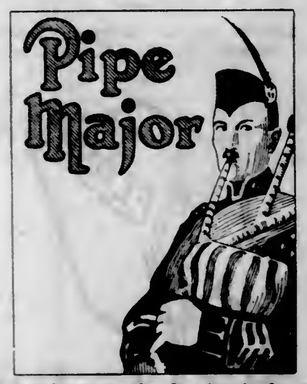
The drawing is lined with the official lining to indicate the color red.
For Cigarettes.
Claims use since Sept. 1, 1927.

Ser. No. 262,721. FRANK P. LEWIS CIGAR CO., Peoria, Ill. Filed Mar. 7, 1928.

LEWIS' SINGLE BINDER
5¢ CIGAR

The drawing is lined to indicate red. Applicant claims ownership of registration No. 57,098 dated Nov. 6, 1906 (renewed).
For Cigars.
Claims use since Jan. 1, 1928.

Ser. No. 264,669. BROWN & WILLIAMSON TOBACCO CORPORATION, Winston-Salem, N. C. Filed Apr. 11, 1928.



The lining shown in the drawing is for the purpose of shading only.
For Smoking and Chewing Tobacco.
Claims use since Mar. 22, 1928.

CLASS 21.

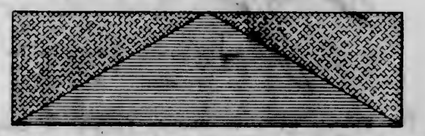
Electrical Apparatus, Machines, and Supplies.

Ser. No. 210,984. EARL H. ROLLINSON, doing business as Mohawk Electric Manufacturing Co., Newark N. J. Filed Mar. 13, 1925.

MOHAWK

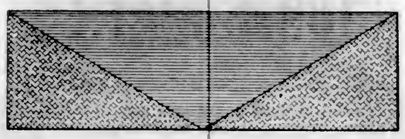
For Radio Parts and Equipment—Namely, B Battery Eliminators, Loud Speakers, Rectifiers for Radio Batteries and Dry-Cell Sets, Audiofrequency Transformers, Condensers, Charging Panels, and Bulb-Type Rectifiers for Fire-Alarm Systems, Transformers, Fire-Alarm Systems, Timing Cutouts, Rheostats, and Telephone Receivers.
Claims use since June 27, 1913.

Ser. No. 240,070. DUBILIER CONDENSER CORPORATION, New York, N. Y. Filed Nov. 15, 1926.



For Electrical Condensers of Constant Capacity and Devices for Connecting Radioreceiving Sets to Power Lines in Lieu of Aerial Antennæ.
Claims use since on or about Aug. 15, 1926.

Ser. No. 240,071. DUBILIER CONDENSER CORPORATION, New York, N. Y. Filed Nov. 15, 1926.



For Electrical Condensers of Constant Capacity and Devices for Connecting Radioreceiving Sets to Power Lines in Lieu of Aerial Antennæ.
Claims use since on or about Aug. 15, 1926.

Ser. No. 256,951. MALDA ELECTRIC MANUFACTURING COMPANY, Chicago, Ill. Filed Nov. 2, 1927.



For Electric Sadirons, Electric Percolators, Electric Toasters, Electric Waffle Moulds, Electric Stoves, Electric Griddles, Electric Plugs, Electric Cord Sets, Electric Percolator Sets, and Electric Waffle-Mould Sets.
Claims use since Sept. 30, 1927.

Ser. No. 256,952. MALDA ELECTRIC MANUFACTURING COMPANY, Chicago, Ill. Filed Nov. 2, 1927.



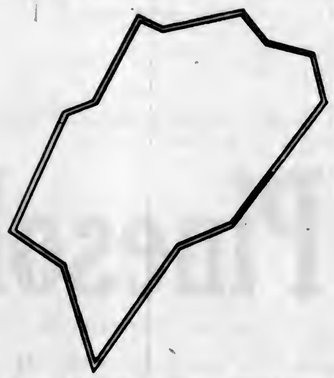
For Electric Sadirons, Electric Percolators, Electric Toasters, Electric Waffle Moulds, Electric Stoves, Electric Griddles, Electric Percolator Sets, Electric Waffle-Mould Sets, Electric Plugs, and Electric Cord Sets.
Claims use since Sept. 30, 1927.

Ser. No. 256,953. MALDA ELECTRIC MANUFACTURING COMPANY, Chicago, Ill. Filed Nov. 2, 1927.



For Electric Sadirons, Electric Percolators, Electric Toasters, Electric Waffle Moulds, Electric Stoves, Electric Griddles, Electric Plugs, Electric Cord Sets, Electric Percolator Sets, and Electric Waffle-Mould Sets.
Claims use since Sept. 30, 1927.

Ser. No. 256,954. MALDA ELECTRIC MANUFACTURING COMPANY, Chicago, Ill. Filed Nov. 2, 1927.



For Electric Sadirons, Electric Percolators, Electric Toasters, Electric Waffle Moulds, Electric Stoves, Electric Griddles, Electric Plugs, Electric Cord Sets, Electric Percolator Sets, Electric Waffle-Mould Sets.
Claims use since Sept. 30, 1927.

Ser. No. 262,646. BLAKE MANUFACTURING CO., Springfield, Mass. Filed Mar. 6, 1928.



No claim is made to the word "Light" apart from the mark shown in the drawings.
For Flash Lights.
Claims use since Feb. 15, 1927.

Ser. No. 264,325. PERKINS MARINE LAMP CORPORATION, Brooklyn, N. Y. Filed Apr. 4, 1928.



Applicant disclaims the use of the words "Known the World Over, Brooklyn, N. Y.," and the representation of the goods apart from the mark shown on the drawing.
For Electric Lamps and Lanterns, Electric Searchlights, and Electric Signs.
Claims use since June 1, 1927.

Ser. No. 264,760. ROGER G. LAFITE, doing business as Automotive Manufacturing Company, Kansas City, Mo. Filed Apr. 13, 1928.

Electra

For Batteries.
Claims use since Apr. 4, 1928.

Ser. No. 265,608. THE ARCO BATTERY & PLATE CO., Fort Wayne, Ind. Filed Apr. 30, 1928

ARCO-IZED

For Batteries and Battery Plates.
Claims use since May, 1927.

Ser. No. 265,707. THE TRIUMPH ELECTRIC CORPORATION, Cincinnati, Ohio. Filed Apr. 30, 1928.



For Electric Motors.
Claims use since 1926.

Ser. No. 265,940. THE BEARDSLEY & WOLCOTT MFG. CO., Hartford, Conn. Filed May 5, 1928.

PUSHOMATIC

For Electric Toasters.
Claims use since Mar. 15, 1928.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 246,800. C. W. WYNN, Selma Ala. Filed Apr. 1, 1927.

SPIDALURE

For Fish Lures.
Claims use since Feb. 1, 1927.

Ser. No. 259,994. THOMAS E. CAHILL, doing business as The Checkeroll Company, Ardmore, Pa. Filed Jan 12, 1928.

CHECKEROLL

For Modified Checker Game.
Claims use since Jan. 15, 1927.

Ser. No. 264,144. THE COLSON COMPANY, Elyria, Ohio. Filed Apr. 2, 1928.

BABYBIKE

The word "Bike" is disclaimed apart from the mark shown. Applicant is the owner of registration No. 175,437 covering the term "Baby-Bikes."
For Velocipedes.
Claims use since Apr. 28, 1925.

Ser. No. 264,859. CLIFTON C. ALLES, Los Angeles, Calif. Filed Apr. 16, 1928.

HE-BOY.

For Toy Vehicles—Namely, Toy Wagons.
Claims use since Feb. 10, 1928.

Ser. No. 265,329. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed Apr. 24, 1928.

STRIPLITE

For Artificial Bait.
Claims use since about Sept. 1, 1927.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 257,209. WHITE AND HALLOCK, INC., Muskegon, Mich. Filed Nov. 7, 1927.

Whippit

For Beaters for Culinary Purposes Including Egg Beaters and Cream Whips.
Claims use since July 15, 1925.

Ser. No. 258,052. THE VILLAGE BLACKSMITH FOLKS, Watertown, Wis. Filed Nov. 25, 1927.

GRASWIP

The lining on the letters in the drawing represents shading.
For Grass and Weed Cutters.
Claims use since on or about Aug. 1, 1927.

Ser. No. 259,113. LOUIS HIRSCH, INC., Weehawken, N. J., and New York, N. Y. Filed Dec. 19, 1927.



No claim is made to the right to the exclusive use of the representation of the needle shown in said mark and/or to the right to the exclusive use of the word "Needles" occurring in said mark except in the setting and relation in which they appear in said drawing.
For Hosiery-Machine Needles.
Claims use since Dec. 1, 1927.

Ser. No. 261,458. RUBIE BLADE CORPORATION, New York, N. Y. Filed Feb. 9, 1928.



Applicant disclaims the representation of the envelope, the words "Double Edge, Blade, Made in U. S. A., New York, U. S. A." apart from the other features of the mark. The drawing is lined to denote the colors red, blue, and orange.
For Razor Blades.
Claims use since Jan. 16, 1928.

Ser. No. 261,751. GOODWIN GARST, doing business as Garst Manufacturing Co., Chicago, Ill. Filed Feb. 16, 1928.

PLOW

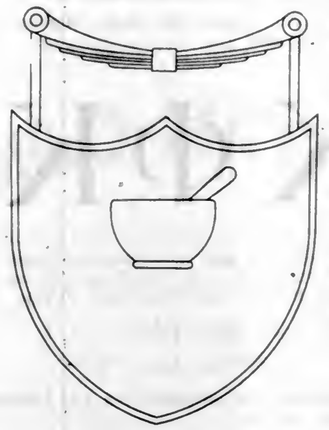
For Scrapers for Scraping Dirt, Sand, Gravel, Coal, and the Like.
Claims use since Feb. 1, 1928.

Ser. No. 261,953. J. A. FISCHER COMPANY, Philadelphia, Pa. Filed Feb. 20, 1928.



The lining of drawing indicates shading. Applicant alleges ownership of registered Certificate No. 210,494.
For Distributor and Oil-Pump Gears.
Claims use since Jan. 2, 1928.

Ser. No. 263,539. CONQUEST MILL ENGINEERING COMPANY, LIMITED, London, England. Filed Mar. 21, 1928.



For Mills for Grinding or Pulverizing All Kinds of Hard or Refractory Materials.
Claims use since 1927.

Ser. No. 263,540. CONQUEST MILL ENGINEERING COMPANY, LIMITED, London, England. Filed Mar. 21, 1928.

CONQUEST

For Mills for Grinding or Pulverizing All Kinds of Hard or Refractory Materials.
Claims use since 1927.

Ser. No. 263,643. COMPAGNIE BELGE GOLIATH, Brussels, Belgium. Filed Mar. 23, 1928.

GOLIATH

For Pneumatic Rock-Hammer Drills; Pneumatic Riveting, Chiseling, Caulking, Chamfering, and Scaling Hammers; Pneumatic Boring, Drilling, Tapping, Milling, and Brushing Machines; Pneumatic Ramming and Core-Removing Tools, for Foundries. Pneumatic Hammers for Breaking and Cutting Concrete and Stone, Pneumatic Concrete and Paving Rammers, and Pneumatic Digging and Excavating Hammers.
Claims use since 1907.

Ser. No. 265,988. IRA J. SHAPIRO, New York, N. Y. Filed May 5, 1928.

LUCKY STROKE

For Razor Blades.
Claims use since May 1, 1928.

Ser. No. 266,203. ARCHER F. KNOTT, Dinwiddie, Va. Filed May 10, 1928.



Exclusive right to the word "Rake," as it appears in the drawing, all appearances, is disclaimed separate and apart from the mark shown.
For Hand Rakes and Hoes.
Claims use since Mar. 1, 1928.

CLASS 24.

Laundry Appliances and Machines.

Ser. No. 265,528. THE FEDERAL WASHBOARD COMPANY, Tiffin, Ohio. Filed Apr. 28, 1928.



The words "Firm Set" are disclaimed apart from the trade-mark as shown.
For Ironing Tables.
Claims use since Oct. 31, 1927.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 262,274. GEORGE WALKER, Boston, Mass. Filed Feb. 25, 1928.

PROPELLER LOG

No registration rights are claimed for the word "Propeller" apart from the mark shown in the drawing.
For Ship's-Shaft-Revolution Indicators.
Claims use since November, 1926.

Ser. No. 265,046. HANDY TIRE GAUGE MANUFACTURING COMPANY, Syracuse, N. Y. Filed Apr. 18, 1928.

D-GAUGE

Exclusive use of the word "Gauge" is disclaimed.
For Tire Gauges.
Claims use since Dec. 1, 1927.

Ser. No. 266,717. WALTER E. DISNEY, Hollywood, Calif. Filed May 21, 1928.

MICKEY MOUSE

For Motion Pictures Reproduced in Copies for Sale.
Claims use since on or about May 1, 1928.

Ser. No. 266,854. THE DENVER FIRE CLAY COMPANY, Denver, Colo. Filed May 23, 1928.



For Graphite Crucibles (Melting Type), Assay Clay Goods, Particularly Annealing Cups, Assay Crucibles and Covers Therefor, Muffles, Roasting Dishes, and Scarifiers, Flotation Machines for Laboratory Uses, and Ore-Sampling Machines.
Claims use since October, 1918.

CLASS 27.

Horological Instruments.

Ser. No. 264,974. FEDERAL MAIL ORDER CORPORATION, New York, N. Y. Filed Apr. 17, 1928.

ALBUS

For Watches, Watch Movements, Watchcases, and Parts of Watches.
Claims use since March, 1928.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 261,260. KAPPA PHI KAPPA, Hanover, N. H. Filed Feb. 6, 1928.

ΚΦΚ

For Fraternity Badges, Lapel Buttons; Scarf, Lapel, and Breast Pins; Cuff Links, Tie Clasps, Charms, Finger Rings, Belt Buckles, and Ornamental Shields, All of Precious Metal.
Claims use since Oct. 1, 1922.

Ser. No. 261,857. S. BUCHSBAUM & CO., Chicago, Ill. Filed Feb. 18, 1928.

TRUE

For Finger Rings, Napkin Rings, Pearls to be Strung or Strings of Pearls and Belt Buckles Made of or Plated with Precious Metal.
Claims use since 1919.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 259,871. POHLMEYER, INC., Wallington, N. J. Filed Jan. 9, 1928.

THE RUNNING SQUIRREL

The word "Squirrel" as such is disclaimed apart from the mark shown in the drawing.
For Camel Hair, Red and Black Sable, Ox Hair, Fitch, Badger, and Bristle Paint Brushes.
Claims use since January, 1922.

Ser. No. 266,013. W. A. BALLINGER, doing business as W. A. Ballinger & Co., San Francisco, Calif. Filed May 7, 1928.

CALSTRING

For Mops and Mop Heads.
Claims use since Mar. 1, 1923.

CLASS 31.

Filters and Refrigerators.

Ser. No. 262,834. WILLIAMS OIL-O-MATIC HEATING CORPORATION, Bloomington, Ill. Filed Mar. 8, 1928.

OIL-O-MATIC

For Domestic Refrigerating Machines.
Claims use since on or about July 17, 1926.

CLASS 32.

Furniture and Upholstery.

Ser. No. 265,928. PROSTEEL COMPANY, Chicago, Ill. Filed May 4, 1928.

PROSTEEL

For Steel Cabinets and Cupboards, Kitchenette Units, and Metal Cabinets and Cases for Hospital and Hotel Use.
Claims use since Apr. 1, 1927.

Ser. No. 266,630. WILLIAM A. SWANSON, Dallas, Tex. Filed May 18, 1928.

CARDTERIA

For Display Cabinet for Greeting Cards.
Claims use since Apr. 25, 1928.

CLASS 33.

Glassware.

Ser. No. 266,113. WRIGHT MANUFACTURING COMPANY, INC., Philadelphia, Pa. Filed May 8, 1928.

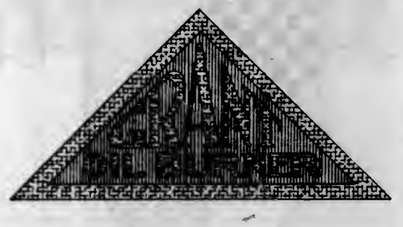
Little Flower
RUBY
VIGIL LIGHT

No claim is made to the words "Ruby Vigil Light" apart from the mark shown.
For Vigil-Light Cups Composed of Glass.
Claims use since Apr. 28, 1928.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 230,623. GRANT OIL BURNER CORPORATION, New York, N. Y. Filed Apr. 28, 1926.



No claim is made to the words "Oil Burner" apart from the mark as shown. The drawing is lined and hatched for red and gold.
For Oil Burners.
Claims use since Nov. 25, 1924.

Ser. No. 261,943. COMBUSTIONEER, INC., Chicago, Ill. Filed Feb. 20, 1928.

COMBUSTIONEER

For Coal-Handling Equipment—Namely, Coal Stokers.
Claims use since Feb. 9, 1928.

Ser. No. 264,532. PITTSBURGH REFLECTOR COMPANY, Pittsburgh, Pa. Filed Apr. 7, 1928.

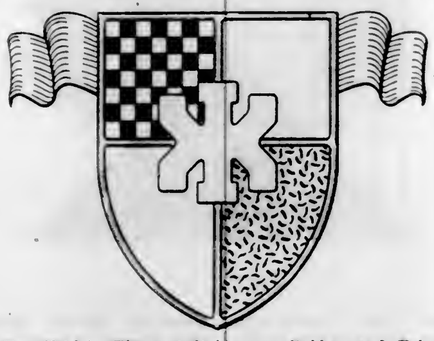


No claim is made to the words "Pittsburgh, Pa." apart from the mark as shown.
For Lamp Reflectors of Silvered Glass, Including Show-Window Reflectors, Cove-Lighting Reflectors, Spot and Flood Light Reflectors for Stores and Industrial Purposes, Reflectors for Illumination for Public Purposes, and Fittings, Holders, and Adapters for All Such Reflectors.
Claims use since Aug. 23, 1926.

CLASS 35.

Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 239,408. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio. Filed Oct. 29, 1926.



For Vehicle Tires of Rubber or Rubber and Fabric, Inner Tubes for Vehicle Tires, Repair Patches of Rubber, and Rubber and Fabric.
Claims use since about Nov. 20, 1925.

Ser. No. 262,073. FERGUSON GEAR COMPANY, Gastonia, N. C. Filed Feb. 23, 1928.

VEE CORD

Applicant disclaims the right to the exclusive use of the word "Vee" except in association with the other features of the mark shown.
For Belting Made of Canvas, Canvas and Rubber, and Rubber and Various Reenforcing Materials, Such as Metallic Wires, Textile Fibres, and the Like.
Claims use since about Nov. 10, 1927.

Ser. No. 263,346. PHELPS TIRE & RUBBER COMPANY, Garfield, N. J. Filed Mar. 17, 1928.

La Salle

For Automobile Tires and Inner Tubes.
Claims use since Apr. 14, 1927.

Ser. No. 265,430. FRICTION PRODUCTS COMPANY, Aberdeen, Wash. Filed Apr. 26, 1928.

Hi-Ball

For Friction Blocks, Edger Pin Stock, Saw Guides, Automotive and Industrial Brake Linings, and Asbestos Friction Drive Rings.
Claims use since July 1, 1927.

Ser. No. 265,937. WEBB BELTING CO., Kansas City, Mo. Filed May 4, 1928.



The word "Brand" is disclaimed apart from the mark shown.
For Solid Round Belt Manufactured from Imported Leather.
Claims use since on or about March, 1927.

CLASS 37.

Paper and Stationery.

Ser. No. 250,758. THE PAPER SUPPLY COMPANY, INC., Minneapolis, Minn. Filed June 18, 1927.

Regal

For School Writing Books and Tablets.
Claims use since about 1910.

Ser. No. 255,821. RAND KARDEX SERVICE CORPORATION, Tonawanda, N. Y., assignor to Remington Rand Business Service Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 8, 1927.



For Blank and Partially-Printed Cards and Forms for Indexes, Indexes Consisting of Blank or Partially-Printed Forms or Cards, Index Guide Cards, and Separator Cards of the Type Used for Phonetic Indexes, and Frames and Holders for Index Cards.
Claims use since May 31, 1927.

Ser. No. 265,525. CORNSTALK PRODUCTS COMPANY, INC., New York, N. Y. Filed Apr. 28, 1928.



Exclusive ownership of the word "Cornstalk" apart from the mark as shown is disclaimed.
For Print, Wrapping, Writing, Book, and Tissue Paper.
Claims use since about Mar. 31, 1928.

Ser. No. 266,349. THE BEVERIDGE PAPER COMPANY, Indianapolis, Ind. Filed May 14, 1928.

SARACEN

For Cover Paper, Bristol, and Cardboard.
Claims use since Feb. 15, 1928.

Ser. No. 266,606. THE WARREN MANUFACTURING COMPANY, Riegelsville, N. J., and New York, N. Y. Filed May 19, 1928.

CELOWAX

For Waxed Wrapping Paper and Waxed Paper for Lining Cartons and Boxes.
Claims use since May 7, 1928.

Ser. No. 266,860. JAPAN PAPER COMPANY, New York, N. Y. Filed May 23, 1928.

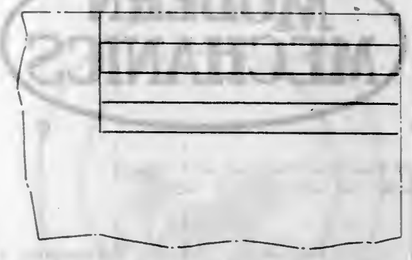
SECOLO XIII

For Italian Handmade and Handlaid Writing and Printing Paper.
Claims use since May 12, 1928.

CLASS 38.

Prints and Publications.

Ser. No. 246,418. LEFAX, Philadelphia, Pa. Filed Mar. 26, 1927.



No claim is made herein for the illustration of a broken-away portion of the goods shown in dot and dash lines to which the trade-mark is applied.
For Periodical, Pamphlets, Data Sheets, and Printed Blanks.
Claims use since Nov. 15, 1910.

Ser. No. 259,709. BE VIER AND CO., INC., New York, N. Y. Filed Jan. 5, 1928.

MARK-IT
MEMMO

For Printed Lists of Household Commodities.
Claims use since Jan. 4, 1928.

Ser. No. 261,652. EDWIN J. RYAN, Chicago, Ill. Filed Feb. 18, 1928.

PHOTOSTORY

For Printed Publication Issued Weekly or Monthly.
Claims use since Oct. 1, 1927.

Ser. No. 262,573. AUGUST C. MEYER, doing business as Merchants' News Publishing Co., Albany, N. Y. Filed Mar. 3, 1928.

Merchants' News

For Weekly Newspaper.
Claims use since Feb. 11, 1928.

Ser. No. 263,747. VERNON T. BRAUNS, doing business as The Progress Press, Chicago, Ill. Filed Mar. 26, 1928.

KWIKLOG

For Radio Call Finder Published from Time to Time.
Claims use since Feb. 15, 1928.

Ser. No. 265,470. FAWCETT PUBLICATIONS, INC., Robbinsdale, Minn. Filed Apr. 27, 1928.

MODERN MECHANICS

For Magazines Published Every Month.
Claims use since Apr. 2, 1928.

Ser. No. 265,485. LOWRY CARTOON CORPORATION, Chicago, Ill. Filed Apr. 27, 1928.

THE ROMPER KIDDIES

For Series of Cartoons.
Claims use since Sept. 2, 1927.

Ser. No. 265,531. FIGHT STORIES, INC., New York, N. Y. Filed Apr. 28, 1928.

FIGHT STORIES

For Monthly Magazine.
Claims use since Apr. 6, 1928.

Ser. No. 265,769. THE AMERICAN LAUNDRY MACHINERY COMPANY, Norwood Station, Cincinnati, Ohio. Filed May 2, 1928.

THE Almco NEWS

For Monthly Publication.
Claims use since Mar. 15, 1928.

Ser. No. 265,877. AMERICAN WRITING PAPER COMPANY, INC., Holyoke, Mass. Filed May 4, 1928.

EAGLE-A COLOGRAM

For Color Charts and Pamphlets.
Claims use since Mar. 1, 1928.

Ser. No. 266,058. TOLEDO SCALE COMPANY, Jersey City, N. J., and Toledo, Ohio. Filed May 7, 1928.

The Toledo System, Jr.

For House Organ Issued from Time to Time.
Claims use since Apr. 10, 1928.

Ser. No. 266,193. JOHN PAUL DORLAND, INC., Philadelphia, Pa. Filed May 10, 1928.

THE DENTAL ROSTER

For Monthly Magazine.
Claims use since Sept. 3, 1927.

Ser. No. 266,194. EDWARD THOMPSON COMPANY, Northport, N. Y. Filed May 10, 1928.

Law Notes

For Monthly Magazine.
Claims use since on or about April, 1897.

Ser. No. 266,214. THE NEW YORK TIMES COMPANY, New York, N. Y. Filed May 10, 1928.

Sports of the Times

For Newspaper Section.
Claims use since Jan. 1, 1927.

Ser. No. 266,228. GEORGE WM. BROWN, Clinton, Iowa. Filed May 11, 1928.

Both Sides of the Question

For Newspaper Columns.
Claims use since Jan. 3, 1928.

Ser. No. 266,260. NATIONAL INDUSTRIAL CONFERENCE BOARD, INC., New York, N. Y. Filed May 11, 1928.

The Conference Board Bulletin

For Monthly Publication.
Claims use since Jan. 1, 1927.

Ser. No. 266,261. NATIONAL INDUSTRIAL CONFERENCE BOARD, INC., New York, N. Y. Filed May 11, 1928.

THE SERVICE LETTER
on Industrial Relations

For Semimonthly Publication.
Claims use since Jan. 5, 1928.

Ser. No. 266,516. THE CHAIN STORE PUBLISHING CORPORATION, New York, N. Y. Filed May 17, 1928.

CHAIN STORE AGE

For Periodical Publication.
Claims use since June 1, 1925.

Ser. No. 266,543. THE JACOBSEN PUBLISHING COMPANY, Chicago, Ill. Filed May 17, 1928.

HIDE and LEATHER

For Weekly Magazine.
Claims use since on or about Dec. 29, 1890.

Ser. No. 266,919. DOUBLEDAY, DORAN & COMPANY, INC., Garden City, N. Y. Filed May 24, 1928.

The AMERICAN HOME

For Magazine Published Monthly.
Claims use since May 11, 1928.

CLASS 39.

Clothing.

Ser. No. 233,681. A. H. GEUTING CO., INC., Philadelphia, Pa. Filed June 24, 1926.

"PATROL"

For Leather Shoes.
Claims use since about Jan. 2, 1920.

Ser. No. 243,161. H. LOEB & CO., INC., New York, N. Y. Filed Jan. 21, 1927.



Applicant owns registration Nos. 22,486 and 22,487.
For Underwear, Bath Suits, Sport Coats, Sweater Coats, Vests, Jackets, Petticoats, Bellybands, Knee Warmers Made of Knitted, Netted, and Textile Fabrics for Men, Women, and Children.
Claims use since Nov. 1, 1888.

Ser. No. 243,162. H. LOEB & CO., INC., New York, N. Y. Filed Jan. 21, 1927.



Applicant owns registration Nos. 22,486 and 22,487.
For Underwear, Bath Suits, Sport Coats, Sweater Coats, Vests, Jackets, Petticoats, Bellybands, Knee Warmers Made of Knitted, Netted, and Textile Fabrics for Men, Women, and Children.
Claims use since Nov. 1, 1888.

Ser. 244,400. JOSEPH HOBBES, INC., New York, N. Y. Filed Feb. 15 1927.



The word "Clothes" appearing in the drawing is disclaimed apart from the other features of the mark there shown.

For Slickers, Necktles, Collars for Male Use, Rubber and Oilskin Raincoats, Pajumas, and Knitted, Netted, and Textile Underwear for Men.

Claims use since Nov. 2, 1925.

Ser. No. 248,410. HUDSON HAT MANUFACTURING CO. INC., Nutley, N. J. Filed May 4, 1927.



HUDSON

The horizontal lining on the drawing is to represent shading. The name "Hudson" is disclaimed apart from the association as shown.

For Men's Hats.

Claims use since January, 1909.

Ser. No. 255,750. A. S. HAIGHT & COMPANY, New York, N. Y. Filed Oct. 7, 1927.

TREKS

For Men's Athletic Underwear of Knitted or Textile Fabrics.

Claims use since June 27, 1927.

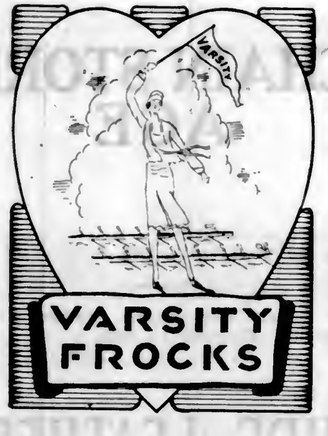
Ser. No. 256,710. THE BAMBERGER-REINTHAL COMPANY, Cleveland, Ohio. Filed Oct. 28, 1927.

Snow Flake

For Caps, Scarfs, and Sweaters for Men, Women, and Children.

Claims use since about July, 1926.

Ser. No. 258,625. SAM DOLMATZ, New York, N. Y. Filed Dec. 8, 1927.



The word "Frocks" is disclaimed apart from the other features of the mark shown in the drawing.

For Ladies' Frocks Other Than Knitted Frocks.

Claims use since Oct. 9, 1927.

Ser. No. 260,966. STERN BROTHERS, New York, N. Y. Filed Jan. 31, 1928.

PAMELA

For Neckwear—viz, Ladies' Collars, Ladies' Scarfs—Women's Dresses, Misses' and Women's Suits, Women's Coats, Women's Skirts for Outer and Under Wear, Misses' Dresses, Misses' Coats, Girls' Coats and Dresses, Misses' and Boys' Blouses, Women's, Children's, and Misses' Trimmed and Untrimmed Hats, and Women's Shoes Made of Leather.

Claims use since Jan. 9, 1928.

Ser. No. 261,319. HARRY LICHT, New York, N. Y. Filed Feb. 7, 1928.

Moon-Sheen

No claim is made to the exclusive use of the word "Sheen" apart from the mark as shown in the drawing.

For Hosiery.

Claims use since Jan. 14, 1928.

Ser. No. 262,430. A. S. TEICHMAN, Greensboro, N. C. Filed Feb. 29, 1928.

Marksman

For Men's and Boys' Dress Shirts.

Claims use since Feb. 20, 1928.

Ser. No. 262,456. GRUBER AND STEINBERG, St. Louis, Mo. Filed Mar. 1, 1928.

LINDBOW

No claim is made to the use of the word "Bow" apart from the mark shown on the drawing.

For Necktles.

Claims use since on or about Feb. 15, 1928.

Ser. No. 262,671. THE MILLER RUBBER COMPANY, Akron, Ohio. Filed Mar. 6, 1928.



Applicant owns registration No. 142,380.

For Bathing Caps, Household Aprons, Rubber Overshoes, Rubber Gloves for Household Use, Slippers of Rubber and of Fabric and Rubber, Baby Pants, Baby Bibs and Rubber Diapers, and Bathing Belts.

Claims use since Aug. 17, 1927.

Ser. No. 262,916. LILLIE TREDWELL (KREIPE), Chicago, Ill. Filed Mar. 10, 1928.



For Women's, Misses', and Children's Coats, Dresses, and Millinery—Namely, Hats for Women, Misses, and Children.

Claims use since Oct. 23, 1927.

Ser. No. 263,352. SLANDS MANUFACTURING COMPANY, New York, N. Y. Filed Mar. 17, 1928.

DURO-SLANDS

For Men's and Women's Coats, Topcoats, Overcoats, Wraps, and Capes.

Claims use since February, 1928.

Ser. No. 263,476. GEO. E. KEITH COMPANY, Brockton, Mass. Filed Mar. 20, 1928.

WALK-OVER

Applicant owns registration No. 77,431.

For Hosiery.

Claims use since Feb. 25, 1928.

Ser. No. 263,548. THE H. & W. COMPANY, Newark, N. J. Filed Mar. 21, 1928.

"JUST-ENUF"

For Combination Garments Combining the Functions of Bandeaux and Garter Belt.

Claims use since Feb. 18, 1928.

Ser. No. 263,850. L. BAMBERGER & COMPANY, Newark, N. J. Filed Mar. 28, 1928.

celeste

For Millinery Comprising Women's, Misses', and Children's Hats.

Claims use since Mar. 10, 1928.

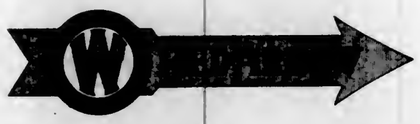
Ser. No. 263,963. THE MIDDLE WEST HAT MFG., COMPANY, Cleveland, Ohio. Filed Mar. 29, 1928.



For Men's Hats.

Claims use since Jan. 10, 1928.

Ser No. 263,999. WEYENBERG SHOE M'F'G. CO., Milwaukee, Wis. Filed Mar. 29, 1928.



The trade-mark is not limited to any particular color.
For Leather Shoes.
Claims use since August, 1923.

Ser. No. 264,029. FITS-U CAP CO., St. Louis, Mo. Filed Mar. 30, 1928.

Way-A-Hed

For Headwear—Namely, Caps for Men and Boys.
Claims use since Mar. 1, 1928.

Ser. No. 264,097. THE H. & W. COMPANY, Newark, N. J. Filed Mar. 31, 1928.

"5 Oclock Girl"

For Bandeaux, Girdles and Belts of Various Lengths, Such Belts Being Used as Garter Belts for Personal Wear.
Claims use since Mar. 15, 1928.

Ser. No. 264,206. SIGNET HOSIERY COMPANY, Cambridge, Mass. Filed Apr. 2, 1928.



The lining appearing on the drawing is for shading purposes only.
For Lingerie—Namely, Women's Vests, Step-Ins, Bloomers, Chemises, Panties, Slips, Nightgowns, and Pajamas.
Claims use since June 7, 1926.

Ser. No. 264,231. HAHNE & COMPANY, Newark, N. J. Filed Apr. 3, 1928.



The lining appearing on the drawing is for shading purposes.
For Men's and Boys' Suits, Coats, Trousers, Vests, and Knickerbockers.
Claims use since on or about April, 1927.

Ser. No. 264,341. ZALUD-KAUFMAN CO. INC., New York, N. Y. Filed Apr. 4, 1928.

"LA PERROQUET MODES"

The word "Modes" is disclaimed apart from the mark shown in the drawing.
For Dresses and Gowns for Women and Misses.
Claims use since Jan. 20, 1927.

Ser. No. 264,515. GEM-DANDY GARTER CO., Madison, N. C. Filed Apr. 7, 1928.

"GEMCO"

For Garters, Arm Bands, and Suspenders.
Claims use since Mar. 29, 1928.

Ser. No. 264,587. WALTER S. LAHEY, New York, N. Y. Filed Apr. 9, 1928.

SANIGLOVE

The lining shown in the drawing represents shading.
For Men's, Ladies', and Children's Leather Gloves.
Claims use since Jan. 31, 1928.

Ser. No. 264,656. A. J. REACH COMPANY, Philadelphia, Pa. Filed Apr. 10, 1928.



For Baseball Uniforms, Baseball Shoes, Boxing Shoes, Football Pants, Football Shoes, Basket-Ball Pants, Basket-Ball Shirts, Jerseys, Running Pants, Stockings, and Track Shoes.
Claims use since June 1, 1907.

Ser. No. 264,681. W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y. Filed Apr. 11, 1928.

MYSIA

For Rayon Underwear for Women and Children.
Claims use since Mar. 20, 1928.

Ser. No. 264,819. S. GINSBERG SONS, Baltimore, Md. Filed Apr. 14, 1928.

Calvert Clothes
SGS

The words "Calvert Clothes" are disclaimed apart from the mark shown in the drawing.
For Men's and Boys' Clothing—Namely, Coats, Pants, Vests, and Overcoats.
Claims use since January, 1922.

Ser. No. 264,911. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Apr. 16, 1928.



The portrait of the girl constituting the trade-mark is fanciful and does not represent any particular person.
For Ladies' Garters.
Claims use since May 26, 1927.

Ser. No. 264,999. NEWTOWNE MANUFACTURING COMPANY, Boston, Mass. Filed Apr. 17, 1928.

Newco

For Men's, Women's, and Children's Raincoats.
Claims use since Jan. 1, 1928.

Ser. No. 265,031. BOWER & KAUFMANN, Philadelphia, Pa. Filed Apr. 18, 1928.

TITANIA

For Hosiery.
Claims use since Apr. 3, 1928.

Ser. No. 265,222. LEWIS-WISE CO. INC., New York, N. Y. Filed Apr. 21, 1928.

RADIOCLADD

For Men's and Boys' Robes, Dressing Gowns, Lounge Suits, Smoking Jackets, and Beach Coats.
Claims use since Mar. 29, 1928.

Ser. No. 265,372. FARR BROS. CO., Allentown, Bethlehem, Reading, and Easton, Pa. Filed Apr. 25, 1928.

Farr's
ARCH PERFECTOR
HOLDS UP THE ARCH

Applicant does not claim exclusive use of the expression "Holds Up the Arch" except in combination with the other features shown in the drawing.

For Shoes Constructed of Leather and Shoes Constructed of Fabric for Men, Women, Boys, Youths, Little Men, Misses, Children, and Growing Girls.

Claims use since Apr. 1, 1928.

Ser. No. 265,437. LOUIS HALPERN SHOE COMPANY, INC., Boston, Mass. Filed Apr. 26, 1928.



The word "America" is disclaimed apart from the mark shown in the drawing.

For Women's Leather Shoes.

Claims use since Jan. 1, 1928.

Ser. No. 265,475. GREGORY & READ COMPANY, Lynn, Mass. Filed Apr. 27, 1928.

Lynnette

For Leather Boots and Shoes.

Claims use since on or about Apr. 14, 1928.

Ser. No. 265,480. HOLLAND SHOE COMPANY, Holland, Mich. Filed Apr. 27, 1928.

HOLLAND
DOUBLE DUTY
ARCH

The pictorial representation of the shoe is disclaimed apart from the other features of the mark.

For Leather Shoes.

Claims use since Apr. 1, 1928.

CLASS 40.

Fancy Goods, Furnishings, and Notions.

Ser. No. 211,236. SCOVILL MANUFACTURING COMPANY, Waterbury, Conn. Filed Mar. 18, 1925.

DAMASCUS

Applicant is the owner by assignment of registration No. 99,619 dated September 8, 1914, for the word "Damascus."

For Common and Safety Pins.

Claims use since 1904.

Ser. No. 261,649. RAU FASTENER COMPANY, Providence, R. I. Filed Feb. 13, 1928.

Snapin

For Pin Fasteners.

Claims use since Jan. 6, 1928.

Ser. No. 263,522. HENRY WEIL NEEDLE ART CORP., New York, N. Y. Filed Mar. 20, 1928.

HAPPY HOME WORK

No claim is made to the words "Home Work" apart from the mark shown in the drawing.

For Fabrics Stamped for Embroidery and Tapestry Patts.

Claims use since Oct. 1, 1925.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 235,540. A. T. BAKER & CO. INC., Manayunk, Philadelphia, Pa. Filed Aug. 4, 1926.

Sunbake

For Pile Fabrics in the Piece.

Claim use since on or about July 27, 1926.

Ser. No. 247,867. PARADISE KOVERITE CO., New York, N. Y. Filed Apr. 22, 1927.

Paradise Koverite

For Infants' Carriage Covers Made of Textile.

Claims use since Apr. 5, 1927.

Ser. No. 258,235. PEPPERELL MANUFACTURING COMPANY, Boston, Mass. Filed Nov. 30, 1927.

BABY PEPPERELL

Applicant is owner of registration No. 141,199, dated April 12, 1921, for the word "Pepperell" effective under the ten-year proviso.

For Crib Blankets and Crib Sheets of Textile Material.

Claims use since May 31, 1927.

Ser. No. 261,926. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Feb. 18, 1928.



For Shoulder-Strap Ribbon in the Piece or Bolt; Tablecloths, Scarfs for Tables, Sideboards, Dressers, and Bureaus Made from Textile Fabrics; Pillow Tubing, Pillowcases, and Pillow Covers Made from Textile Fabrics; Towels Made from Textile Fabrics; Curtains Made from Cotton Piece Goods Known as Dimity, Which Curtains are Not in the Nature of Made-Up Shades.

Claims use since July 28, 1926.

Ser. No. 263,409. FRANK C. KIP, INC., Chicago, Ill. Filed Mar. 19, 1928.

CLEANTEX

For Untreated Wiping-Cloth Material in the Piece or by the Bolt.

Claims use since Oct. 19, 1927.

Ser. No. 264,971. DUPLEX SILK MILLS, INC., New York, N. Y. Filed Apr. 17, 1928.

SAN CHU CREPE

Applicant disclaims exclusive right to the use of the word "Crepe" apart from the mark as shown in the drawing.

For Silks in the Piece.

Claims use since Oct. 21, 1927.

Ser. No. 265,292. PENDLETON WOOLEN MILLS, Portland, Oreg. Filed Apr. 23, 1928.

Grand Canyon

For Woolen Blankets.

Claims use since November, 1926.

Ser. No. 266,091. PEPPERELL MANUFACTURING COMPANY, Boston, Mass. Filed May 8, 1928.

Lady
PEPPERELL

Applicant is owner of registration No. 211,529 dated April 13, 1926, for the words "Lady Pepperell" as shown.

For Blankets and Bed and Crib Coverings Made of Cotton or Wool or a Mixture of Cotton and Wool.

Claims use since Mar. 30, 1927.

Ser. No. 266,820. KORTLEE FROCK, INC., New York, N. Y. Filed May 22, 1928.

Floralee

For Silk Goods in the Piece.

Claims use since May 7, 1928.

Ser. No. 266,821. KORTLEE FROCK, INC., New York, N. Y. Filed May 22, 1928.

Sundance

For Silk Goods in the Piece.

Claims use since May 7, 1928.

Ser. No. 266,877. ONONDAGA SILK COMPANY, INC., Syracuse and New York, N. Y. Filed May 23, 1928.

ONONDAGA

For Silk Fabrics in the Piece.
Claims use since Apr. 11, 1928.

CLASS 43.

Thread and Yarn.

Ser. No. 265,286. NYRAYCO IMPORTING & CONVERTING CORP., New York, N. Y. Filed Apr. 23, 1928.

NYRAYCO IMPORTING & CONVERTING CORP. NYRAY CO RAYON YARNS

Applicant disclaims the words "Rayon Yarns" apart from the mark shown.
For Rayon Yarns and Threads.
Claims use since January, 1928.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 266,216. PYRO-CHEX COMPANY, St. Louis, Mo. Filed May 10, 1928.

Pyro-Chex

For Instrument for Massaging the Gums.
Claims use since about Mar. 1, 1928.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 261,674. W. J. HOWEY CO., Howey-in-the-Hills, Fla. Filed Feb. 14, 1928.

Howey IN THE Hills

For Table Water and Fruit Juices for Beverage Purposes.
Claims use since September, 1925.

Ser. No. 265,500. HOWARD A. ROWE, Omaha, Nebr. Filed Apr. 27, 1928.

HIC-CU-RA

For Mineral Water.
Claims use since Jan. 1, 1908.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 242,948. CENTRAL MILLING CO. OF TENNESSEE, Memphis, Tenn., and Birmingham, Ala., assignor to Central Mills Corporation, Memphis, Tenn., a Corporation of Delaware. Filed Jan. 17, 1927.

BROWN BEAUTY

For Bread and Wheat Biscuit Flour.
Claims use since Dec. 28, 1926.

Ser. No. 252,244. GALVESTON MILLS, Gretna, Va. Filed July 18, 1927.

WHITE THORN



For Wheat Flour.
Claims use since June 1, 1925.

Ser. No. 253,684. ROACH, TISDALE & CO., Minneapolis, Minn. Filed Aug. 18, 1927.

"LINDY"

PRIDE OF THE AIR

Exclusive use of the surname "Lindy" apart from the other features of the mark is hereby disclaimed.
For Candy Bar.
Claims use since May 23, 1927.

Ser. No. 254,470. ORANGE PRODUCTS CO., Orange, Tex. Filed Sept. 7, 1927.

Del-Dixi

For Canned Pork and Beans, Canned Blackberries, Canned Figs, Compound Fig and Corn Syrup, and Canned Vegetables—Namely, Canned Lima Beans, Canned Stringless Beans, Canned Mustard Greens, and Canned Turnip Greens.
Claims use since June 21, 1927.

Ser. No. 256,000. MASON, AU & MAGENHEIMER CONFECTIONERY MANUFACTURING COMPANY, Brooklyn, N. Y. Filed Oct. 12, 1927.

Isnit Sweet

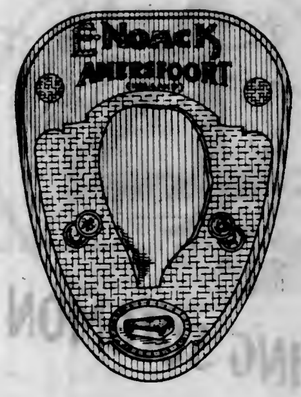
Exclusive right to the word "Sweet" apart from the other features of the mark is hereby disclaimed.
For Candies.
Claims use since Sept. 3, 1927.

Ser. No. 256,544. SAN JUAN FISHING & PACKING CO., Seattle, Wash. Filed Oct. 24, 1927.

SEA FARER

For Fresh, Salt, and Pickled Fish.
Claims use since July 21, 1927.

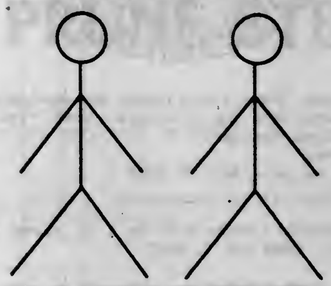
Ser. No. 257,593. NAAMLOOZE VENNOOTSCHAP E. NOACK'S KONINKLIJKE FIJNE VLEESCHWAREN- EN CONSERVENFABRIEKEN, Amersfoort, Netherlands. Filed Nov. 15, 1927.



No claim is made to the exclusive use of the gold medals, the term "Amersfoort" (Holland), the representation of the goods and the containers thereof apart from the mark as shown in the drawing. The shade lines are the standard representation for red and yellow.
For Meat and Preserves, More Especially Ham in Tins.
Claims use since 1905.

Ser. No. 257,612. NEVITT AND GOODWIN, Washington, D. C. Filed Nov. 16, 1927.

YOU and ME



SHOPPE

For Candies, Cakes, and Mayonnaise Dressing.
Claims use since Sept. 15, 1927.

Ser. No. 257,762. MICHELE RONZONE, doing business as Sweetheart Baking Co., Elkhart, Ind. Filed Nov. 18, 1927.



For Bread.
Claims use since Nov. 9, 1927.

Ser. No. 257,974. ESKIMO PIE CORPORATION, Louisville, Ky. Filed Nov. 23, 1927.

KING SOLOMON

For Confections—Namely, Ice-Cream Confections.
Claims use since Jan. 1, 1927.

Ser. No. 258,481. NEW YORK BAKERY, Fort Worth, Tex. Filed Dec. 5, 1927.



The words "Light Crust Bread" are disclaimed only as associated with the trade-mark shown. The trade-mark is lined for red.
For Bread.
Claims use since Jan. 15, 1927.

Ser. No. 258,592. GEORG SCHICHT A. G., Aussig, Czechoslovakia. Filed Dec. 7, 1927.

CERES

For Margarine Consisting of Pure Cocoanut Fat Only for Cooking Purposes.
Claims use since 1902.

Ser. No. 259,344. STEARNS MARKETING COMPANY, Nogales, Ariz. Filed Dec. 27, 1927.

MEXCO

TOMATOES

Applicant disclaims the pictorial representation of the goods and the name of the goods (tomatoes) apart from the mark shown in the drawing.
For Fresh Tomatoes Packed in Lug Boxes.
Claims use since Nov. 18, 1927.

Ser. No. 259,476. VAN BUREN COUNTY CANNING COMPANY, Hartford, Mich. Filed Dec. 29, 1927.

Local Pride

For Canned Vegetables—Namely, Asparagus, Beans, Bean Sprouts, Tomatoes; Canned Fruits—Namely, Crabapples, Pears, and Plums; Noodles, Chinese Sauce, and Chinese Brown Sauce.
Claims use since 1926.

Ser. No. 259,495. THE JANSZEN COMPANY, Cincinnati, Ohio. Filed Dec. 30, 1927.

MY OWN

For Catchup, Chile Con Carne, Chili Sauce; Canned Berries—Namely, Blackberries, Blueberries, Gooseberries, Loganberries, Raspberries, and Strawberries; Canned Fruits—Namely, Apples, Apricots, Cherries, Grapes, Nectarines, Peaches, Pears, Pineapple, Plums, and Quinces; Canned Hominy, Mustard, Mustard Dressing, Peanut Butter, Pepper Sauce, Canned Pork and Beans, Salad Dressing, Spices, Spaghetti, Canned Soups, Condensed Milk, Evaporated Milk; Canned Vegetables—Namely, Artichokes, Asparagus, Beans, Beets, Red Kidney Beans, Sauerkraut, Succotash, Cabbage, Okra, Pumpkin, Squash, Corn, Peas, Spinach, Sweet Potatoes, Tomatoes, Cut String Beans, Whole Stringless Beans, Mixed Vegetables; Canned Celery, Canned Tomato Purée; Canned Fish—Namely, Salmon, Sardines, Oysters, and Shrimp; Vinegar, Mincemeat, Canned Fruit Salad, Olives, Tea, and Canned Grapefruit.
Claims use since 1900.

Ser. No. 259,667. AMERICAN CHICLE COMPANY, Long Island City, N. Y. Filed Jan. 4, 1928.

SEN-SEN

For Chewing Gum and Cachous.
Claims use since March, 1894.

Ser. No. 259,842. CARBONELL Y CA., Cordoba, Spain. Filed Jan. 9, 1928.



No claim is made to the exclusive use of any of the wording shown on the mark except the words "Carbonell y Cia" apart from the other features of the mark shown.
For Pure Olive Oil.
Claims use since August, 1926.

Ser. No. 261,052. FLORIDA FRUIT CANNERS INC., Frostproof, Fla. Filed Feb. 2, 1928.

D-G

For Canned Grapefruit.
Claims use since Jan. 20, 1928.

Ser. No. 261,222. JACOB M. SILVER, doing business as Scotch Malt Company, Hartford, Conn. Filed Feb. 4, 1928.



The drawing is lined to represent blue and red. The face shown is fanciful. The words "Scotch" and "Scotch Malt Syrup" and the representation of the can of malt syrup are disclaimed apart from the mark shown in the drawing.
For Malt Syrup.
Claims use since May 30, 1926.

Ser. No. 262,787. THE ATWOOD GRAPE FRUIT COMPANY, Manavista, Fla. Filed Mar. 8, 1928.



For Fresh Grapefruit.
Claims use since Nov. 25, 1925.

Ser. No. 262,958. FINEART FOODS, INC., Tuckahoe, N. Y. Filed Mar. 10, 1928.

FINEART

For Coffee and Tea.
Claims use since about Dec. 15, 1926, as applied to coffee and to tea since about Jan. 6, 1927.

Ser. No. 263,457. CALIFORNIA PRUNE & APRICOT GROWERS ASSOCIATION, San Jose, Calif. Filed Mar. 20, 1928.

PRUNE-ETE

For Prune Paste.
Claims use since Sept. 30, 1907.

Ser. No. 263,483. LIMONEIRA COMPANY, Santa Paula, Calif. Filed Mar. 20, 1928.

SANTA

For Fresh Citrus Fruit—Namely, Oranges, Lemons, and Grapefruit.
Claims use since Jan. 2, 1908.

Ser. No. 263,512. PATSY'S CANDIES, INC., Colorado Springs, Colo. Filed Mar. 20, 1928.

Patsy's ORIGINAL

For Candy, Candied Popcorn, Buttered Popcorn, Salted Peanuts, and Salt-Water Taffy.
Claims use since Oct. 1, 1924.

Ser. No. 263,951. KEMP BROTHERS PACKING CO., Frankfort, Ind. Filed Mar. 29, 1928.

TRU-MATO

For Bottled or Canned Tomato Juice.
Claims use since Feb. 1, 1928.

Ser. No. 264,328. THE FRANK R. PRINA CORPORATION, New York, N. Y. Filed Apr. 4, 1928.



No claim is made to the words "Feed Them" and "Full Cream Feed" apart from the mark shown in the drawing.
For Wheat Mixed Feed for Cattle, Hogs, and Poultry.
Claims use since February, 1927.

Ser. No. 264,635. THE CARR MILLING COMPANY, Hamilton, Ohio. Filed Apr. 10, 1928.

LiteRizer



For Self-Rising Flour.
Claims use since Jan. 25, 1928.

Ser. No. 264,737. SCOVILLE & CO., INC., San Juan, P. R. Filed Apr. 12, 1928.

SCOCO

For Canned Fruits—Namely, Canned Grapefruit and Canned Pineapple.
Claims use since Mar. 1, 1928.

Ser. No. 264,781. SQUIRE DINGEE COMPANY, Chicago, Ill. Filed Apr. 13, 1928.

MA BROWN

No claim is made to the word "Brown" apart from the mark shown in the drawing.
For Canned Vegetables, Canned Deciduous Fruits, Canned Berries, Olives, Raisins, Peanut Butter, Canned Soups, and Fish, Macaroni, Rice, Coffee, Tea, Evaporated Milk, Pancake Flour, Candy, Olive Oil, Mayonnaise Dressing, Chili Sauce, Horse-Radish, Mincemeat, Table Syrup, Cheese, Canned Sauerkraut, and Sauerkraut Juice.
Claims use since on or about Mar. 23, 1928.

Ser. No. 264,976. FREI BROS., Santa Rosa and Sebastopol, Calif. Filed Apr. 17, 1928.



The pictorial representation of an apple shown on the drawing is disclaimed apart from the other features of the mark.
For Fresh Apples.
Claims use since July 1, 1924.

Ser. No. 265,048. HARRISON M. LEVY, doing business as Zebest Products Co. of California, Los Angeles, Calif. Filed Apr. 18, 1928.

ZEBEST
PRODUCTS OF QUALITY

No claim is made for the words "Products of Quality" apart from the mark shown in the drawing.
For Food Flavors.
Claims use since Oct. 15, 1927.

Ser. No. 265,210. HALE-HALSELL COMPANY, McAlester, Okla. Filed Apr. 21, 1928.

MID-DAY

For Coffee.
Claims use since December, 1927.

Ser. No. 265,249. JAMES A. AICARDI & SONS INC., Boston, Mass. Filed Apr. 23, 1928.



For Food Preparations—Namely, Pickle Preparations Designated Sweet Chow, Sweet Relish, and Pimiento Relish.
Claims use since June, 1923.

Ser. No. 265,487. JAMES J. MATCHETT CO., New York, N. Y. Filed Apr. 27, 1928. Under 10-year proviso.



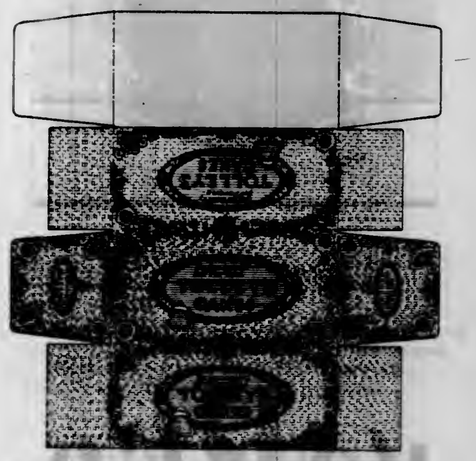
For Candy.
Claims use since 1888.

Ser. No. 265,651. THE KANSAS MILL & ELEVATOR COMPANY, Arkansas City, Kans. Filed Apr. 30, 1928.

Maytime

For Wheat Flour.
Claims use since January, 1928.

Ser. No. 265,740. TOLLEY CAKE CORPORATION, New York, N. Y. Filed May 1, 1928.



The representation of the carton and the words "Deliciously Different, Cakes," and "New York, N. Y." are disclaimed apart from the mark as shown. The lining on the drawing indicates the colors cream and blue.
For Cakes.
Claims use since Sept. 1, 1927.

Ser. No. 265,840. MUSHER AND COMPANY, Washington, D. C. Filed May 3, 1928.

Saba

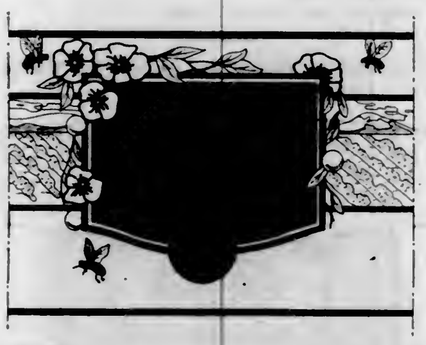
Jose Sabate

Applicant disclaims the use of the words "Jose Sabate" except when used in combination with the word "Saba" as it appears in the drawing.

For Shortening Consisting of Blended or Mixed Hardened Oil and Fats for Use in the Making of Cakes, Pastries, Breads, and Other Food Products.

Claims use since May 3, 1928.

Ser. No. 265,926. THE JOHN G. PATON COMPANY, INC., New York, N. Y. Filed May 4, 1928.



For Honey.

Claims use since Sept. 1, 1925.

Ser. No. 265,935. STANDARD APPLE PRODUCTS INC., Hamlin, N. Y. Filed May 4, 1928.

KAPCO

For Evaporated Apples.

Claims use since May 1, 1925.

Ser. No. 266,180. WILLIAM T. ABBOTT, doing business as William T. Abbott & Co., Boston, Mass. Filed May 10, 1928.

CHANG

For Tea.

Claims use since Jan. 4, 1928.

Ser. No. 266,200. HALE-HALSELL COMPANY, McAlester, Okla. Filed May 10, 1928.



For Coffee.

Claims use since 1915.

Ser. No. 266,207. GEO. E. LINTHICUM, Baltimore, Md. Filed May 10, 1928.



For Malt Syrup.

Claims use since May 1, 1928.

Ser. No. 266,320. THE HILLS BROTHERS COMPANY, New York, N. Y. Filed May 12, 1928.

DROMEDARY

For Fresh Grapefruit.

Claims use since Feb. 7, 1924.

Ser. No. 266,368. R. S. GEHLERT & CO., Detroit, Mich. Filed May 14, 1928.



For Coffee.

Claims use since Nov. 1, 1927.

Ser. No. 266,395. OHIO MALT PRODUCTS CO., Toledo, Ohio. Filed May 14, 1928.

Black Cat



For Malt Syrup.

Claims use since Mar. 14, 1927.

Ser. No. 266,398. SCOTT H. PERKY, doing business as Perky Products, Batavia, N. Y. Filed May 14, 1928.

TOASTICKS

For Cereal Food Product.

Claims use since Feb. 13, 1928.

Ser. No. 266,435. MONTANA FLOUR MILLS COMPANY, also doing business as Bozeman Milling Company, Great Falls, Mont. Filed May 15, 1928.

SILVER BOW

For Wheat Flour.

Claims use since Mar. 1, 1928.

Ser. No. 266,486. FRED WILLIAM SIMPSON, doing business as Western States Farmers Exchange and Honey Dew Mills, Chicago, Ill. Filed May 16, 1928.

HONEY DEW

Owner of registration No. 189,895.

For Poultry Feed and Stock Feed—Namely, Pig Meal, Calf Meal, Egg Mash, Baby-Chick Starter, Hog Fattener, Dairy Rations, Oil Meal, Tankage, and Mineralized Stock and Poultry Feeds, Meal for Horses, Meal for Mules, Meal for Sheep, and Meal for Swine.

Claims use since May 9, 1914.

Ser. No. 266,648. COMMANDER MILLING COMPANY, Minneapolis, Minn. Filed May 19, 1928.

COMMODORE

For Wheat Flour.

Claims use since about Jan. 1, 1928.

Ser. No. 266,692. THOMPSON'S DAIRY, Washington, D. C. Filed May 19, 1928.



For Eggs, Butter, Cheeses, Milk, and Cream.

Claims use since June 15, 1925.

Ser. No. 266,721. ALBERT EHLERS, INC., New York, N. Y. Filed May 21, 1928.

YOLANDA

For Coffee.

Claims use since Apr. 16, 1928.

Ser. No. 266,722. ALBERT EHLERS, INC., New York, N. Y. Filed May 21, 1928.

DIXIE HOUSE

For Coffee.
Claims use since Apr. 2, 1928.

Ser. No. 266,788. J. A. BROWN, Collinsville, Okla. Filed May 22, 1928.

HOME TOWN

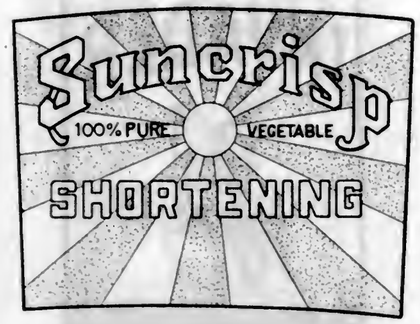
For Bread.
Claims use since May 10, 1928.

Ser. No. 266,825. FRANK S. OKUTANI, Los Angeles, Calif. Filed May 22, 1928.

BLUE STRIPE

For Fresh Vegetables.
Claims use since February, 1926.

Ser. No. 266,840. TEXAS VEGETABLE OIL CO., San Antonio, Tex. Filed May 22, 1928.



The terms "100% Pure" and "Vegetable Shortening" are not claimed except in the association shown.
For Vegetable Shortening.
Claims use since about May 12, 1928.

CLASS 49.

Distilled Alcoholic Liquors.

Ser. No. 263,673. THE SHERWOOD DISTILLING & DISTRIBUTING COMPANY, Baltimore, Md. Filed Mar. 23, 1928.

Sherwood



Applicant claims certificates Nos. 92,272 and 92,273, both issued June 24, 1913.
For Straight Rye Whisky.
Claims use since 1890.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JULY 3, 1928.

243,807. ELECTRICAL RESISTANCE DEVICES SUCH AS ARE USED IN RADIO APPARATUS. INTERNATIONAL RESISTANCE COMPANY, Philadelphia, Pa.
Filed August 6, 1927. Serial No. 253,150. PUBLISHED APRIL 17, 1928. Class 21.

243,808. PENETRATING GRAPHITE OIL. GEORGE ADDISON LAZEAR, Irvington, N. J.
Filed May 11, 1927. Serial No. 248,849. PUBLISHED APRIL 17, 1928. Class 15.

243,809. KEROSENE, FUEL OIL, NAPHTHA, AND GASOLINE. BLUE RIBBON OIL COMPANY, Chicago, Ill.
Filed April 4, 1927. Serial No. 246,883. PUBLISHED AUGUST 2, 1927. Class 15.

243,810. FROZEN CONFECTION COMPRISING A CORE OF CARBONATED NORMALLY LIQUID MATERIAL WITH CONTAINER DISPOSED OVER IT AND REMOVABLE THEREFROM AND AN ELONGATED MEMBER OR STICK EXTENDING WITHIN THE FROZEN CORE. MATTHEW C. MEAGHER, Bethlehem, Pa.
Filed March 19, 1927. Serial No. 246,042. PUBLISHED APRIL 17, 1928. Class 46.

243,811. ELECTRIC OR MAGNETIC BELTS. DR. RODNEY MADISON, doing business as Dr. Rodney Madison Laboratories, Los Angeles, Calif., assignor to The Dr. Rodney Madison Laboratories, Incorporated.
Filed February 25, 1927. Serial No. 244,875. PUBLISHED APRIL 17, 1928. Class 44.

243,812. STILL WINE. COMPAGNIE DU VIN ST. RAPHAEL (SOCIETE ANONYME), Valence, Drome, France.
Filed February 23, 1927. Serial No. 244,744. PUBLISHED JULY 12, 1927. Class 47.

243,813. CANDLES. SMITH & NICHOLS, INCORPORATED, New York, N. Y.
Filed February 18, 1927. Serial No. 244,578. PUBLISHED APRIL 17, 1928. Class 15.

243,814. HOSPITAL SHEETING OF WATERPROOF FABRIC. THE ALLIGATOR COMPANY, St. Louis, Mo.
Filed February 17, 1927. Serial No. 244,485. PUBLISHED APRIL 10, 1928. Class 44.

243,815. ALCOHOLIC LIQUORS—NAMELY, ETHYL ALCOHOL, PURE COMMERCIAL ETHYL ALCOHOL, AND ANHYDROUS ETHYL ALCOHOL. AMERICAN SOLVENTS & CHEMICAL CORPORATION, New York, N. Y.
Filed February 15, 1927. Serial No. 244,383. PUBLISHED APRIL 24, 1928. Class 49.

243,816. BELT BUCKLES, STRAP BUCKLES, AND METAL WRIST-WATCH STRAPS MADE OF OR PLATED WITH PRECIOUS METAL. THE WADSWORTH WATCH CASE COMPANY, Dayton, Ky.
Filed February 14, 1927. Serial No. 244,376. PUBLISHED APRIL 17, 1928. Class 28.

243,817. FRATERNITY BADGES, LAPEL BUTTONS; SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS, ALL OF PRECIOUS METAL. ALPHA DELTA PI, Ames, Iowa.
Filed February 14, 1927. Serial No. 244,341. PUBLISHED APRIL 17, 1928. Class 28.

243,818. CANDIES, FRENCH CHOCOLATE, GLACÉ AND SALTED NUTS, FANCY CAKES, ICE CREAM, ICES, AND SHERBETS. AUGUST O. ENGLUND, West Chester, Pa.
Filed February 8, 1927. Serial No. 244,006. PUBLISHED APRIL 17, 1928. Class 46.

243,819. ELECTRIC-CIRCUIT INTERRUPTERS OR FLASHERS. GENERAL APPLIANCE CORPORATION, San Francisco, Calif.
Filed February 5, 1927. Serial No. 243,852. PUBLISHED APRIL 17, 1928. Class 21.

243,820. SOY IN LIQUID FORM, VINEGAR, SOY EXTRACT, TAMARI (A KIND OF JAPANESE SEASONING), AND TAMARI EXTRACT. NODASHOYU-KABUSHIKIKAISHA, Noda-Machi, Higashikatsushika-Gun, Chiba-Ken, Japan.
Filed February 4, 1927. Serial No. 243,823. PUBLISHED APRIL 17, 1928. Class 46.

243,821. ICE-CREAM POWDER. JAY F. LYONS, Los Angeles, Calif.
Filed January 26, 1927. Serial No. 243,382. PUBLISHED APRIL 17, 1928. Class 46.

243,822. KEROSENE, BENZINE, DISTILLATE, AND LUBRICATING OILS AND GREASES. THE PURE OIL COMPANY, Chicago, Ill.
Filed December 30, 1926. Serial No. 242,208. PUBLISHED APRIL 17, 1928. Class 15.

243,823. GASOLINE. CALIFORNIA PETROLEUM CORPORATION, Los Angeles, Calif.
Filed December 13, 1926. Serial No. 241,392. PUBLISHED APRIL 17, 1928. Class 15.

243,824. MALT SYRUP FOR FOOD PURPOSES. UNIVERSAL FOOD PRODUCTS CO., Chicago, Ill.
Filed November 8, 1926. Serial No. 239,835. PUBLISHED APRIL 17, 1928. Class 46.

243,825. PAINT ENAMEL. THE CHICAGO WHITE LEAD & OIL CO., Chicago, Ill.
Filed July 28, 1925. Serial No. 217,998. PUBLISHED OCTOBER 12, 1926. Class 16.

243,826. TALKING-MACHINE AND PHONOGRAPH RECORDS. GENERAL PHONOGRAPH CORPORATION, New York, N. Y., assignor to Okeh Phonograph Corporation, New York, N. Y., a Corporation of New York.
Filed December 29, 1921. Serial No. 157,268. PUBLISHED APRIL 17, 1928. Class 36.

243,827. ARCH SUPPORTS. THE SCHOLL MFG. CO. INC., Chicago, Ill.
Filed January 30, 1928. Serial No. 260,917. PUBLISHED APRIL 17, 1928. Class 44.

243,828. ARCH SUPPORTS. THE SCHOLL MFG. CO. INC., Chicago, Ill.
Filed January 30, 1928. Serial No. 260,916. PUBLISHED APRIL 17, 1928. Class 44.

243,829. ARCH SUPPORTS. THE SCHOLL MFG. CO. INC., Chicago, Ill.
Filed January 30, 1928. Serial No. 260,915. PUBLISHED APRIL 17, 1928. Class 44.

243,830. APPARATUS FOR IONIZING AIR IN CONNECTION WITH GENERAL VENTILATION BY THE USE OF ELECTRICAL MEANS FOR PRODUCING OZONE. UNITED STATES OZONE COMPANY, Chicago, Ill.
Filed January 27, 1928. Serial No. 260,781. PUBLISHED APRIL 17, 1928. Class 21.

243,831. WATCHES, WATCHCASES, WATCH MOVEMENTS, AND PARTS THEREOF. HIPP. DIDISHEIM CO., INC., New York, N. Y.
Filed January 26, 1928. Serial No. 260,683. PUBLISHED APRIL 17, 1928. Class 27.

243,832. TABLES FOR HOUSEHOLD AND OFFICE USE. THE YEAGER FURNITURE COMPANY, Allentown, Pa.
Filed January 25, 1928. Serial No. 260,664. PUBLISHED APRIL 24, 1928. Class 32.

243,833. EMULSION FOR WALL COVERING IN THE NATURE OF A WALL PAINT. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio.
Filed January 23, 1928. Serial No. 260,482. PUBLISHED APRIL 17, 1928. Class 16.

243,834. STORAGE BATTERIES. PENN BATTERY COMPANY, Lock Haven, Pa.
Filed January 21, 1928. Serial No. 260,463. PUBLISHED APRIL 17, 1928. Class 21.

243,835. TIRE GAUGES. THE MOTOMETER COMPANY, INC., Long Island City, N. Y.
Filed January 19, 1928. Serial No. 260,343. PUBLISHED APRIL 24, 1928. Class 26.

243,836. BRACELETS, BROOCHES, BAR PINS, CHARMS, NECK CHAINS, CAMEOS, EMBLEM JEWELRY OF PRECIOUS METAL, LOCKETS, EARRINGS, STICK PINS, AND PENDANTS. REINER & BERKOW, INC., New York, N. Y.
Filed January 17, 1928. Serial No. 260,242. PUBLISHED APRIL 17, 1928. Class 28.

243,837. CANDIES OF ALL KINDS, INCLUDING CHOCOLATE CANDIES AND BONBONS, AND CHEESE STICKS. SPITZ, ARNSTEIN & CO. INC., New York, N. Y.
Filed January 14, 1928. Serial No. 260,146. PUBLISHED APRIL 17, 1928. Class 46.

243,838. WHITE-GOLD AND PLATINUM FINGER RINGS, BAR PINS, AND BRACELETS. HAMILBURG-SHAW CORPORATION, New York, N. Y.
Filed January 14, 1928. Serial No. 260,121. PUBLISHED APRIL 17, 1928. Class 28.

243,839. TOY SOLDIERS, TOY ANIMALS, TOY MENAGERIES, AND TOY FARMS. LINEOL AKTIENGESELLSCHAFT, Bradenburg-on-the-Havel, Germany.
Filed January 12, 1928. Serial No. 260,029. PUBLISHED APRIL 17, 1928. Class 22.

243,840. FINGER RINGS, FINGER-RING MOUNTINGS, SCARFPINS, BROOCHES, BAR PINS, PENDANTS, AND CLASPS. ENGLAND, KLEIN & LEVY, INCORPORATED, New York, N. Y.
Filed January 12, 1928. Serial No. 260,006. PUBLISHED APRIL 17, 1928. Class 28.

243,841. FINGER RINGS. STRAUSS & STRAUSS, New York, N. Y.
Filed February 16, 1928. Serial No. 261,777. PUBLISHED APRIL 17, 1928. Class 28.

243,842. ICE-CREAM MOLDING AND DISPENSING DEVICE. JAMES DENARO, doing business as Automatic Cone Company, Cambridge, Mass., assignor to American Pastry Products Corporation, Cambridge, Mass., a Corporation of Massachusetts.
Filed February 16, 1928. Serial No. 261,739. PUBLISHED APRIL 24, 1928. Class 23.

243,843. TOY AND SOUVENIR BANKS. THE BLOOM MANUFACTURING COMPANY, INC., Nashua, Iowa.
Filed February 16, 1928. Serial No. 261,734. PUBLISHED APRIL 10, 1928. Class 22.

243,844. CANNED FRUITS, FISH, AND VEGETABLES, CANNED HOMINY, AND CANNED SPAGHETTI. W. R. ROACH & CO., Grand Rapids, Mich.
Filed February 14, 1928. Serial No. 261,685. PUBLISHED APRIL 17, 1928. Class 46.

243,845. LUMINOUS ELECTRIC SIGNS. AMERICAN SIGNS CORPORATION, Kalamazoo, Mich.
Filed February 13, 1928. Serial No. 261,601. PUBLISHED APRIL 17, 1928. Class 21.

243,846. VENDING MACHINES. PORTABLE SELF-SERVING STORE COMPANY, Dover, Del., and Houston, Tex.
Filed February 10, 1928. Serial No. 261,521. PUBLISHED APRIL 24, 1928. Class 23.

243,847. PLATINUM, DIAMOND, AND GOLD WEDDING RINGS. LOUIS N. JACOBS, New York, N. Y.
Filed February 10, 1928. Serial No. 261,513. PUBLISHED APRIL 10, 1928. Class 28.

243,848. DOLLS. LUCY COTTON AMENT, New York, N. Y.
Filed February 10, 1928. Serial No. 261,473. PUBLISHED APRIL 17, 1928. Class 22.

243,849. STORAGE BATTERIES. THE DUNCAN OIL COMPANY, Youngstown, Ohio.
Filed February 9, 1928. Serial No. 261,426. PUBLISHED APRIL 10, 1928. Class 21.

243,850. FINGER RINGS. WEINMAN BROS. AND SCHER, New York, N. Y.
Filed February 8, 1928. Serial No. 261,411. PUBLISHED APRIL 17, 1928. Class 28.

243,851. FINGER RINGS. THE MARK JEWELRY CO., New York, N. Y.
Filed February 8, 1928. Serial No. 261,370. PUBLISHED APRIL 10, 1928. Class 28.

243,852. BANJOS, BANJO UKULELES, BANJO MANDOLINS, MANDOLINS, GUITARS, UKULELES, VIOLINS, VIOLAS, VIOLONCELLOS, DOUBLE BASSES, BANJO HARPS AND STRINGS, TAILPIECES, KEYS, AND BRIDGES THEREFOR. WILLIAM L. LANGE, New York, N. Y.
Filed February 8, 1928. Serial No. 261,367. PUBLISHED APRIL 17, 1928. Class 36.

243,853. MALT SYRUP FOR FOOD PURPOSES. ROCK ISLAND BREWING COMPANY, Rock Island, Ill.
Filed February 6, 1928. Serial No. 261,282. PUBLISHED APRIL 17, 1928. Class 46.

243,854. CLOCKS. WILLIAM L. GILBERT CLOCK COMPANY, Winsted, Conn.
Filed February 4, 1928. Serial No. 261,187. PUBLISHED APRIL 10, 1928. Class 27.

243,855. ELECTRICALLY-OPERATED VACUUM CLEANERS. THE UNITED ELECTRIC COMPANY, Canton, Ohio.
Filed July 8, 1927. Serial No. 251,694. PUBLISHED SEPTEMBER 6, 1927. Class 21.

243,856. LIQUID POLISH FOR AUTOMOBILES AND FURNITURE. QUICKSHEEN POLISH CO., Prospect Park, N. J.
Filed January 9, 1928. Serial No. 259,874. PUBLISHED APRIL 17, 1928. Class 16.

243,857. GASOLINE AND LUBRICATING OILS. LOOBOYLE REFINING COMPANY, Tulsa, Okla., and Joplin, Mo.
Filed December 27, 1927. Serial No. 259,367. PUBLISHED APRIL 17, 1928. Class 15.

243,858. PISTON RINGS. MEGSON PISTON RING CO., INC., Brooklyn, N. Y.
Filed December 23, 1927. Serial No. 259,287. PUBLISHED APRIL 24, 1928. Class 35.

243,859. A GAME WHICH MAY BE PLAYED INDOORS OR OUTDOORS. JOHN C. LEHNE, doing business as John C. Lehne Sales Co., New York, N. Y.
Filed December 22, 1927. Serial No. 259,246. PUBLISHED APRIL 10, 1928. Class 22.

243,860. CANNED FISH, SHELLFISH, BEEF, PORK, CHICKEN, AND VEGETABLES. NICHIRO GYOGYO KABUSHIKI KAISHA, Tokyo, Japan.
Filed December 21, 1927. Serial No. 259,210. PUBLISHED APRIL 17, 1928. Class 46.

243,861. ELECTRICAL FIRE-ALARM SYSTEMS AND PARTS THEREOF—NAMELY, FIRE-ALARM BOXES, REMOTE-CONTROL STATIONS, AND CONTACTOR SETS. THE GAMEWELL COMPANY, Newton Upper Falls, Mass.
Filed December 13, 1927. Serial No. 258,867. PUBLISHED APRIL 17, 1928. Class 21.

243,862. FURNITURE AND PIANO POLISH. WALTER NOWAK, doing business as Excellent Mfg. Co., Buffalo, N. Y.
Filed December 8, 1927. Serial No. 258,647. PUBLISHED APRIL 17, 1928. Class 16.

243,863. BINDING MACHINES FOR BINDING TOGETHER SHEETS OF PAPER OR OTHER MATERIALS. CLUSOR, INCORPORATED, New York, N. Y.
Filed December 8, 1927. Serial No. 258,621. PUBLISHED APRIL 24, 1928. Class 23.

243,864. MALT SYRUPS AND MALT EXTRACTS FOR USE IN THE PREPARATION OF FOODS. GABRIEL & JOS. SEDLMAYR SPATEN-FRANZISKANER-LEISTBRÄU A.-G. MÜNCHEN, Munich, Germany.
Filed December 5, 1927. Serial No. 258,502. PUBLISHED APRIL 17, 1928. Class 46.

243,865. LACQUERS AND OTHER NAMED PAINT PRODUCTS. EASTERN LACQUER COMPANY, Lynn and Wakefield, Mass.
Filed November 23, 1927. Serial No. 257,973. PUBLISHED APRIL 17, 1928. Class 16.

243,866. PISTON RINGS. JOHN C. HOOF & COMPANY, Chicago, Ill.
Filed November 7, 1927. Serial No. 257,159. PUBLISHED APRIL 24, 1928. Class 35.

243,867. CIGARS, CHEWING AND SMOKING TOBACCO. THE MEADS TOBACCO CO., Red Lion, Pa.
Filed October 28, 1927. Serial No. 256,735. PUBLISHED APRIL 24, 1928. Class 17.

243,868. DRY, PASTE, AND READY-MIXED PAINTS, VARNISHES, PAINT ENAMELS, AND LACQUERS. THE PARAFFINE COMPANIES, INC., San Francisco, Calif.
Filed October 4, 1927. Serial No. 255,604. PUBLISHED APRIL 10, 1928. Class 16.

243,869. COOKING SHERRY COMPOUNDED WITH SALT, WINE JELLY, SAUCE A LA BORDELAISE, SAUCE A LA BERCY. ITALIAN VINEYARD CO., Guasti and Los Angeles, Calif.
Filed September 24, 1927. Serial No. 255,180. PUBLISHED APRIL 17, 1928. Class 46.

243,870. JEWELRY FOR PERSONAL USE OR ADORNMENT CONSISTING OF FINGER RINGS, EARRINGS, BRACELETS, PENDANTS, NECKLACES, WATCH BRACELETS, BAGS, BROOCHES, BUCKLES, BAR PINS, CUFF LINKS, LORGNETTES, STUDS, SCARFPINS, HATPINS, VEST BUTTONS, AND HANDY PINS, ALL MADE OF OR PLATED WITH PRECIOUS METAL. ORESTE PENNINO, doing business as Pennino Brothers, New York, N. Y.
Filed September 21, 1927. Serial No. 255,045. PUBLISHED APRIL 17, 1928. Class 28.

243,871. ARTISTS' PAINTS—NAMELY, OIL COLORS. M. GRUMBACHER, New York, N. Y.
Filed September 19, 1927. Serial No. 254,911. PUBLISHED APRIL 10, 1928. Class 16.

243,872. RADIO RECEIVING SETS AND RADIO RECEIVER CONSTRUCTION KITS AND PARTS THEREOF—NAMELY, CONDENSERS, ANTENNA COILS, RADIOFREQUENCY TRANSFORMERS, DIALS, PANELS, AND FOUNDATION UNITS. BROWNING-DRAKE CORPORATION, Cambridge, Mass.
Filed September 16, 1927. Serial No. 254,790. PUBLISHED APRIL 17, 1928. Class 21.

243,873. FLOOR-TREATING MACHINES, SCRUBBING MACHINES, MOP TRUCKS, ETC. FINNELL SYSTEM, INC., Elkhart, Ind.
Filed September 2, 1927. Serial No. 254,275. PUBLISHED APRIL 24, 1928. Class 23.

243,874. BIDETS. THE FASTIDIOUS COMPANY, San Francisco, Calif.
Filed August 11, 1927. Serial No. 253,322. PUBLISHED APRIL 17, 1928. Class 44.

243,875. LUBRICATING OILS AND GREASES. CROWN OIL & WAX CO., Baltimore, Md.
Filed August 11, 1927. Serial No. 253,312. PUBLISHED APRIL 3, 1928. Class 15.

243,876. WATCH AND CLOCK BALANCE WHEELS. WILLIAM R. ZESINGER, South Bend, Ind.
Filed February 3, 1928. Serial No. 261,156. PUBLISHED APRIL 10, 1928. Class 27.

243,877. PLATINUM JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. QUALITY JLY. CO., New York, N. Y.
Filed February 3, 1928. Serial No. 261,144. PUBLISHED APRIL 17, 1928. Class 28.

243,878. CIGARS. GEORGE G. HAAXMA, doing business as M. Haaxma & Sons, Winthrop, Mass.
Filed February 3, 1928. Serial No. 261,113. PUBLISHED APRIL 24, 1928. Class 17.

243,879. FIBRE BOARD FOR ELECTRICAL INSULATION. WEST VIRGINIA PULP AND PAPER COMPANY, New York, N. Y.
Filed February 2, 1928. Serial No. 261,088. PUBLISHED APRIL 17, 1928. Class 21.

243,880. BANJO AND MANDOLIN PICKS. JOSEPH W. NICOMEDE, doing business as Nicomede Music Co., Altoona, Pa.
Filed February 2, 1928. Serial No. 261,073. PUBLISHED APRIL 17, 1928. Class 36.

243,881. BRACELETS, BROOCHES, LINGERIE FASTENERS, CUFF PINS, BAR PINS, NECK CHAINS, PENDANTS, FINGER RINGS, CUFF LINKS, BIB HOLDERS, COMPACT CASES, NAPKIN RINGS, COLLAR BUTTONS, STICK PINS, WATCH CHAINS, AND BELT BUCKLES, ALL MADE OF PRECIOUS METAL. LESTER W. NERNEY, doing business as The Knobby Krafters, Attleboro, Mass.
Filed February 2, 1928. Serial No. 261,072. PUBLISHED APRIL 17, 1928. Class 28.

243,882. REPLACEMENT PARTS FOR IGNITION SYSTEMS—NAMELY, BREAKER ARMS AND LEVERS, DISTRIBUTOR CAPS AND CASINGS, ROTORS, CONDENSERS, GENERATOR AND STARTER BRUSHES, BRUSH HOLDERS, CONTACT SCREWS, CONTACT SPRINGS, CONTACT ARMS, DISTRIBUTOR DISC ASSEMBLIES, DISTRIBUTOR ROTOR ASSEMBLIES, RESISTANCE UNITS, CONTACT TERMINALS, DISTRIBUTOR HEAD ASSEMBLIES, TENSION SPRINGS, TERMINAL ATTACHMENTS, VIBRATOR SPRINGS, VIBRATOR BRIDGES, CIRCUIT-BREAKER BASES, BREAKER PLATES, STARTER SWITCHES, SERVICE COILS, INDUCTION COILS, AND DISTRIBUTOR GEARS. GUARANTEED PARTS CO., INC., New York, N. Y.
Filed February 17, 1928. Serial No. 261,809. PUBLISHED APRIL 17, 1928. Class 21.

243,883. STORAGE BATTERIES AND PARTS THEREOF. GOULD STORAGE BATTERY CO., INC., Depew, N. Y.
Filed February 18, 1928. Serial No. 261,876. PUBLISHED APRIL 17, 1928. Class 21.

243,884. MOTION-PICTURE NOVELTY FILMS AND TRAILERS. ISIDOR SCHWARTZ, New York, N. Y.
Filed February 18, 1928. Serial No. 261,914. PUBLISHED APRIL 24, 1928. Class 26.

243,885. ALIMENTARY PASTES. MINNESOTA MACARONI CO., St. Paul, Minn.
Filed February 20, 1928. Serial No. 261,977. PUBLISHED APRIL 17, 1928. Class 46.

243,886. GELATINE DESSERT. AMERICAN STORES COMPANY, Philadelphia, Pa.
Filed February 21, 1928. Serial No. 262,012. PUBLISHED APRIL 17, 1928. Class 46.

243,887. COMBINED SANITARY NAPKIN AND BELT. MARGARET MALOUF, Brooklyn, N. Y.
Filed February 23, 1928. Serial No. 262,104. PUBLISHED APRIL 10, 1928. Class 44.

243,888. MALT SYRUP. THE PILSENER BREWING CO., Cleveland, Ohio.
Filed February 23, 1928. Serial No. 262,118. PUBLISHED APRIL 17, 1928. Class 46.

243,889. OLIVE OIL. LOUIS SAMAROTTO, New York, N. Y.
Filed February 23, 1928. Serial No. 262,124. PUBLISHED APRIL 17, 1928. Class 46.

243,890. GASOLINE, MOTOR OIL, AND OTHER LUBRICATING OILS AND GREASES. THE BARTLES-MAGUIRE OIL COMPANY, Milwaukee, Wis.
Filed February 25, 1928. Serial No. 262,198. PUBLISHED APRIL 17, 1928. Class 15.

243,891. VAGINAL SYRINGES AND OINTMENT APPLICATORS. HAROLD L. DE BAR, Los Angeles, Calif.
Filed February 27, 1928. Serial No. 262,295. PUBLISHED APRIL 17, 1928. Class 44.

243,892. ARCH SUPPORTS. THE SCHOLL MFG. CO. INC., Chicago, Ill.
Filed February 27, 1928. Serial No. 262,333. PUBLISHED APRIL 17, 1928. Class 44.

243,893. GOLF BALLS. THE VULCAN LAST COMPANY, doing business as Vulcan Golf Company, Portsmouth, Ohio.
Filed February 27, 1928. Serial No. 262,338. PUBLISHED APRIL 17, 1928. Class 22.

243,894. GOLF BALLS. THE VULCAN LAST COMPANY, doing business as Vulcan Golf Company, Portsmouth, Ohio.
Filed February 27, 1928. Serial No. 262,339. PUBLISHED APRIL 17, 1928. Class 22.

243,895. MALT SYRUP. B. J. GARFINKEL, doing business as Good-Will Malt and Hops Supply Company, Harrisburg, Pa.
Filed February 29, 1928. Serial No. 262,398. PUBLISHED APRIL 17, 1928. Class 46.

243,896. WATCHES, WATCHCASES, AND WATCH MOVEMENTS. ORO WATCH CO., New York, N. Y.
Filed March 1, 1928. Serial No. 262,479. PUBLISHED APRIL 17, 1928. Class 27.

243,897. MALT SYRUP. VAL BLATZ BREWING CO., Milwaukee, Wis.
Filed March 1, 1928. Serial No. 262,495. PUBLISHED APRIL 17, 1928. Class 46.

243,898. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK, SIRUP, EXTRACT, AND CONCENTRATE FOR MAKING THE SAME. CHARLES J. GRUBER'S SONS, Philadelphia, Pa.
Filed March 6, 1928. Serial No. 262,656. PUBLISHED APRIL 24, 1928. Class 45.

243,899. PUMPS. S. F. BOWSER & COMPANY, INC., Fort Wayne, Ind.
Filed March 8, 1928. Serial No. 262,793. PUBLISHED APRIL 24, 1928. Class 23.

243,900. ROUND LEATHER BELTING. ALLEN BELTING COMPANY, Clifton Heights, Pa.
Filed March 13, 1928. Serial No. 263,062. PUBLISHED APRIL 24, 1928. Class 35.

243,901. BANANAS. COMPANIA FRUTERA TRANSCONTINENTAL, S. A., Mexico City, Mexico, and El Paso, Tex.
Filed March 6, 1928. Serial No. 262,649. PUBLISHED APRIL 24, 1928. Class 46.

243,902. NOSE AND THROAT SPRAY AND GARGLE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,732. PUBLISHED APRIL 24, 1928. Class 6.

243,903. NOSE AND THROAT SPRAY AND GARGLE AND MOUTH WASH. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,736. PUBLISHED APRIL 24, 1928. Class 6.

243,904. FOOD-FLAVORING PREPARATION. JULIETTE L. PHILIPPEAU, New York, N. Y.
Filed March 8, 1928. Serial No. 262,817. PUBLISHED APRIL 24, 1928. Class 46.

243,905. POTATO CHIPS. TINY TATERS, INC., Cleveland, Ohio.
Filed March 10, 1928. Serial No. 262,943. PUBLISHED APRIL 24, 1928. Class 46.

243,906. ANTIMONY OXIDE. COMPAGNIE MÉTALLURGIQUE DE LA CAMPINE SOC. AN., Antwerp, Belgium.
Filed March 10, 1928. Serial No. 262,954. PUBLISHED APRIL 24, 1928. Class 6.

243,907. WOOLEN PIECE GOODS. AMERICAN WOOLEN COMPANY, Boston, Mass.
Filed March 13, 1928. Serial No. 263,003. PUBLISHED APRIL 24, 1928. Class 42.

243,908. SILK PIECE GOODS, RAYON PIECE GOODS, SILK AND RAYON PIECE GOODS, AND SILK AND COTTON PIECE GOODS. HART SILK COMPANY, San Francisco, Calif.
Filed March 15, 1928. Serial No. 263,212. PUBLISHED APRIL 24, 1928. Class 42.

243,909. CANNED FRUITS AND VEGETABLES. TUGWELL & WISEMAN, INC., Modeltown, N. Y.
Filed March 7, 1928. Serial No. 262,781. PUBLISHED APRIL 24, 1928. Class 46.

243,910. NOSE AND THROAT SPRAY AND GARGLE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,757. PUBLISHED APRIL 24, 1928. Class 6.

243,911. MAGNESIUM HYDROXIDE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,752. PUBLISHED APRIL 24, 1928. Class 6.

243,912. EYE WASH. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,740. PUBLISHED APRIL 24, 1928. Class 6.

243,913. NOSE AND THROAT SPRAY AND GARGLE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,739. PUBLISHED APRIL 24, 1928. Class 6.

243,914. COLD AND GRIPPE TABLETS. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,738. PUBLISHED APRIL 24, 1928. Class 6.

243,915. FROZEN CONCENTRATE FOR MAKING MALTED MILK, BEING MORE PARTICULARLY A FROZEN MIXTURE CONTAINING THE INGREDIENTS TO BE USED WITH LIQUID IN DESIRED QUANTITIES FOR MAKING MALTED MILK. ADAM STUART KEDZIE, doing business as Polar Malt Company, Los Angeles, Calif.
Filed August 9, 1927. Serial No. 253,242. PUBLISHED APRIL 24, 1928. Class 46.

243,916. MEDICINAL PREPARATIONS—NAMELY, GLANDULAR PRODUCTS. REED & CARNRICK, Jersey City, N. J.
Filed September 24, 1927. Serial No. 255,202. PUBLISHED APRIL 24, 1928. Class 6.

243,917. JEWELRY FOR PERSONAL USE FOR ADORNMENT, CONSISTING OF FINGER RINGS, EARRINGS, BRACELETS, PENDANTS, NECKLACES, WATCH BRACELETS, BAGS, BROOCHES, BUCKLES, BAR PINS, CUFF LINKS, LORGNETTES, STUDS, SCARFPINS, HATPINS, VEST BUTTONS, AND HANDY PINS, ALL MADE OF OR PLATED WITH PRECIOUS METAL. ORESTE PENNINO, doing business as Pennino Brothers, New York, N. Y.
Filed September 30, 1927. Serial No. 255,463. PUBLISHED APRIL 24, 1928. Class 28.

243,918. STANCHIONS, DAVITS, STERN FRAMES, RUDDER POSTS, SHACKLES, SHELL RINGS, PILE RINGS, AXLES, MAST BANDS, AND TRUCK BODIES. JOHN ISAACSON, Seattle, Wash.
Filed October 6, 1927. Serial No. 255,714. PUBLISHED APRIL 24, 1928. Class 19.

243,919. CANNED SALMON. R. H. MACY & CO., INC., New York, N. Y.
Filed October 12, 1927. Serial No. 255,998. PUBLISHED APRIL 24, 1928. Class 46.

243,920. LUBRICATING OILS, LUBRICATING GREASES, PETROL, AND KEROSENE. COMBINED BUYERS LIMITED, Wellington, New Zealand.
Filed October 20, 1927. Serial No. 256,335. PUBLISHED APRIL 24, 1928. Class 15.

243,921. HAIR POMADE. MORTON G. NEUMANN, doing business as Valmor Chemical Laboratories, Chicago, Ill.
Filed October 22, 1927. Serial No. 256,477. PUBLISHED APRIL 24, 1928. Class 6.

243,922. ALUMINUM SOLDER. GARDNER & YATES, Bellefonte, Pa.
Filed November 14, 1927. Serial No. 257,540. PUBLISHED APRIL 24, 1928. Class 14.

243,923. CYLINDRICAL AND FLAT INDUSTRIAL BRUSHES AND MACHINE-OPERATED BRUSHES. ADAMS-WHITE BRUSH COMPANY, Boston, Mass.
Filed November 21, 1927. Serial No. 257,846. PUBLISHED APRIL 24, 1928. Class 29.

243,924. PREPARATION FOR THE TREATMENT OF CORNS, BUNIONS, AND WARTS. STEPHEN FARGO, Cleveland, Ohio.
Filed December 12, 1927. Serial No. 258,806. PUBLISHED APRIL 24, 1928. Class 6.

243,925. PAPER BOXES. ST. LOUIS LABEL WORKS, St. Louis, Mo.
Filed December 12, 1927. Serial No. 258,841. PUBLISHED APRIL 24, 1928. Class 2.

243,926. CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, PRESERVED FRUIT, DRIED FRUIT, CANDIED AND SALTED NUTS, NUTS IN THEIR NATURAL STATE, CATSUP, AND CHILI SAUCE. WURM BROTHERS COMPANY, Chicago, Ill.
Filed December 12, 1927. Serial No. 258,848. PUBLISHED APRIL 24, 1928. Class 46.

243,927. STEEL CUT AND PULVERIZED COFFEES. C. H. KRONEBERGER AND COMPANY, Baltimore, Md.
Filed December 15, 1927. Serial No. 258,949. PUBLISHED APRIL 24, 1928. Class 46.

243,928. STEEL CUT AND PULVERIZED COFFEES. C. H. KRONEBERGER AND COMPANY, Baltimore, Md.
Filed December 15, 1927. Serial No. 258,950. PUBLISHED APRIL 24, 1928. Class 46.

243,929. MEDICINAL LIQUID PREPARATION OF GREAT VALUE AS AN ANODYNE, NONGREASY, READILY ABSORBED BY THE SKIN WITHOUT PRODUCING IRRITATION, RELIEVES PAIN PROMPTLY, ANTIRHEUMATIC, AND ANALGESIC. JOSEPH SILBERMAN, doing business as Corinthian Pharmacy, Philadelphia, Pa.
Filed December 15, 1927. Serial No. 258,960. PUBLISHED APRIL 24, 1928. Class 6.

243,930. CANNED FISH, CANNED FRUITS, CANNED VEGETABLES, TOMATO CATSUP, AND COFFEE. HAAS, BARUCH & COMPANY, Los Angeles, Calif.
Filed December 19, 1927. Serial No. 259,112. PUBLISHED APRIL 24, 1928. Class 46.

243,931. CLINCHING NAILS. G. G. ROBERTS CORPORATION, Whitman, Mass.
Filed January 9, 1928. Serial No. 259,877. PUBLISHED APRIL 24, 1928. Class 13.

243,932. CHEMICALLY-TREATED FULLER'S EARTH FOR USE AS A BLEACHING POWDER, FOR DECOLORIZING OILS, FATS, AND GREASES. STEINHARDT & CO., New Orleans, La.
Filed December 14, 1927. Serial No. 258,918. PUBLISHED APRIL 24, 1928. Class 6.

243,933. LININGS IN THE PIECE MANUFACTURED FROM WOOL, COTTON, AND RAYON AND COMBINATIONS OF THE SAME. EDGAR K. FRANK & CO., New York, N. Y.
Filed January 16, 1928. Serial No. 260,172. PUBLISHED APRIL 3, 1928. Class 42.

243,934. FINGER-RING MOUNTINGS AND SETTINGS, BROOCH MOUNTINGS AND SETTINGS, BRACELETS, AND WATCH AND LOCKET CHAINS. HAIMES & KLEIN, INC., New York, N. Y.
Filed January 19, 1928. Serial No. 260,330. PUBLISHED APRIL 24, 1928. Class 28.

243,935. LUBRICATING OILS AND GREASES, MOTOR OIL, CUP GREASE, AND COMPOUNDS. O'KAY PRODUCTS CORPORATION, Detroit, Mich.
Filed January 19, 1928. Serial No. 260,344. PUBLISHED APRIL 3, 1928. Class 15.

243,936. ROTARY DRY-CLEANING MACHINES. MAURICE H. GLASSMAN, Boston, Mass.
Filed January 21, 1928. Serial No. 260,441. PUBLISHED APRIL 24, 1928. Class 24.

243,937. ELECTRIC BATTERIES. BRIGHT STAR BATTERY CO., Hoboken, N. J., doing business as Uneedit Battery Co., New York, N. Y.
Filed January 24, 1928. Serial No. 260,552. PUBLISHED APRIL 24, 1928. Class 21.

243,938. CANDY BARS. WILLIAM D. ROSE, doing business as Have a Heart Candy Co., Portland, Oreg.
Filed January 26, 1928. Serial No. 260,699. PUBLISHED APRIL 24, 1928. Class 46.

243,939. MALT-EXTRACT POWDER FOR FOOD PURPOSES. SCHREIBER PRODUCTS CORPORATION, Buffalo, N. Y.
Filed January 28, 1928. Serial No. 260,853. PUBLISHED APRIL 24, 1928. Class 46.

243,940. FINGER RINGS, BROOCHES, BAR PINS, BRACELETS, SCARFPINS, SAUTOIRS, NECKLACES, AND EMBLEMS MADE OF OR PLATED WITH PRECIOUS METAL. LEO. R. STRAUS & CO., New York, N. Y.
Filed January 28, 1928. Serial No. 260,859. PUBLISHED APRIL 24, 1928. Class 28.

243,941. STEERING WHEELS FOR MOTOR-DRIVEN VEHICLES. INLAND MANUFACTURING COMPANY, Dayton, Ohio.
Filed January 30, 1928. Serial No. 260,890. PUBLISHED APRIL 24, 1928. Class 19.

243,942. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. AXEL BROS., New York, N. Y.
Filed January 31, 1928. Serial No. 260,931. PUBLISHED APRIL 24, 1928. Class 28.

243,943. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. SIGMUND BERGER, New York, N. Y.
Filed January 31, 1928. Serial No. 260,932. PUBLISHED APRIL 24, 1928. Class 28.

243,944. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. SAMUEL KOSHERS, New York, N. Y.
Filed January 31, 1928. Serial No. 260,945. PUBLISHED APRIL 24, 1928. Class 28.

243,945. PAINTBRUSHES. MARCUS BRUSH CO. INC., New York, N. Y.
Filed January 31, 1928. Serial No. 260,952. PUBLISHED APRIL 17, 1928. Class 29.

243,946. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. MITCHALL WALDMAN, New York, N. Y.
Filed January 31, 1928. Serial No. 260,968. PUBLISHED APRIL 24, 1928. Class 28.

243,947. FINGER RINGS, BAR PINS, SCARFPINS, AND BRACELETS. ISAAC GARSON, New York, N. Y.
Filed February 1, 1928. Serial No. 260,996. PUBLISHED APRIL 24, 1928. Class 28.

243,948. EVAPORATED MILK. HELLER & PERRIN, Pittsburgh, Pa.
Filed March 3, 1928. Serial No. 262,564. PUBLISHED APRIL 24, 1928. Class 46.

243,949. COFFEE. JOBBERS SERVICE INCORPORATED, Coldwater, Mich.
Filed March 5, 1928. Serial No. 262,609. PUBLISHED APRIL 24, 1928. Class 46.

243,950. BANANAS. COMPANIA FRUTERA TRANSCONTINENTAL, S. A., Mexico City, Mexico, and El Paso, Tex.
Filed March 6, 1928. Serial No. 262,648. PUBLISHED APRIL 24, 1928. Class 46.

243,951. CANDY. THE FREDERICK W. LIPPS CO., Baltimore, Md.
Filed January 11, 1928. Serial No. 259,962. PUBLISHED APRIL 24, 1928. Class 46.

243,952. JEWELRY AND PRECIOUS-METAL WARE—NAMELY, CUFF BUTTONS, BELT BUCKLES, COLLAR ORNAMENTS, HATPINS, HAIR ORNAMENTS, SEALS, ALL OF WHICH ARE MADE OF OR PLATED WITH PRECIOUS METAL; BROOCHES, WATCH CHAINS, NECK CHAINS, KEY CHAINS, HANDY PINS, FOBS, SCARFPINS, PENDANTS, LOCKETS, NECKLACES, FINGER RINGS, STUDS, AND SIMILAR ARTICLES FOR PERSONAL ADORNMENT, NOT INCLUDING WATCHES. DAVIS & LOWE COMPANY, Newark, N. J.
Filed January 14, 1928. Serial No. 260,104. PUBLISHED APRIL 24, 1928. Class 28.

243,953. PAPER BOXES, CARTONS, AND MERCHANDISE ENVELOPES. WESTERN ENVELOPE CORPORATION, Brooklyn N. Y.
Filed February 28, 1927. Serial No. 245,039. PUBLISHED APRIL 24, 1928. Class 2.

243,954. FIRE HYDRANTS. WATEROUS FIRE ENGINE WORKS, INCORPORATED, St. Paul, Minn.
Filed March 7 1927. Serial No. 245,385. PUBLISHED APRIL 24, 1928. Class 13.

243,955. PIPE FITTINGS, VALVES, AND COCKS COMPOSED WHOLLY OR IN PART OF METAL, AUTOMATIC SPRINKLER SYSTEMS, DRY-VALVE ACCELERATORS, WATER-MOTOR GONGS, QUARTZ BULB SPRINKLERS, RETARDING CHAMBERS, INDICATOR POSTS, WATER-MOTOR-GONG HOODS, SPRINKLER CABINETS, RESTRICTION UNITS FOR ALARM VALVES, SEDIMENT STRAINERS, AIR TRAPS, STATIONARY FIRE-EXTINGUISHING FOAM TANKS, SIGHT-TEST CONNECTIONS; FIRE-DEPARTMENT CONNECTIONS, FIRE-DEPARTMENT-CONNECTION PLATES, HOSE CAPS, FUSIBLE LINKS, PIPE HANGERS AND BRACKETS. GRINNELL COMPANY, INC., Providence, R. I.
Filed June 2, 1927. Serial No. 249,898. PUBLISHED APRIL 24, 1928. Class 13.

243,956. BATHTUBS, SINKS, AND ALL KINDS OF LAVATORIES. WOLFF MANUFACTURING CORPORATION, Chicago, Ill.
Filed August 1, 1927. Serial No. 252,872. PUBLISHED APRIL 24, 1928. Class 13.

243,957. ROUGES AND LIP STICKS. HELENA J. TITUS, doing business as Madame Helena Rubenstein, New York, N. Y.
Filed July 6, 1927. Serial No. 251,589. PUBLISHED APRIL 17, 1928. Class 6.

243,958. ROUGES AND LIP STICKS. HELENA J. TITUS, doing business as Madame Helena Rubenstein, New York, N. Y.
Filed July 6, 1927. Serial No. 251,588. PUBLISHED APRIL 17, 1928. Class 6.

243,959. GAS HEATERS AND PARTS THEREOF. ADAMS BROS. MFG. CO. INC., Pittsburgh, Pa.
Filed July 5, 1927. Serial No. 251,470. PUBLISHED APRIL 24, 1928. Class 34.

243,960. RADIO PARTS AND ACCESSORIES. EARL H. ROLLINSON, doing business as Mohawk Electric Mfg. Co., Brooklyn, N. Y.
Filed March 17, 1927. Serial No. 245,924. PUBLISHED DECEMBER 20, 1927. Class 21.

243,961. TEA. BERRY, DODGE COMPANY, Boston, Mass.
Filed March 16, 1927. Serial No. 245,827. PUBLISHED MARCH 13, 1928. Class 46.

243,962. FERTILIZERS. UNIFORM PRODUCTS COMPANY, Lancaster, Pa.
Filed June 29, 1927. Serial No. 251,289. PUBLISHED SEPTEMBER 27, 1927. Class 10.

243,963. HEAT-DIFFUSING UNITS COMPRISING A CASING ENCLOSING PIPE COILS SUPPLIED BY STEAM OR HOT LIQUID AND MOTOR-DRIVEN FANS FOR DRAWING AIR OVER THE PIPE COILS. YORK HEATING & VENTILATING CORPORATION, Bridgeport and Philadelphia, Pa.
Filed June 15, 1927. Serial No. 250,588. PUBLISHED SEPTEMBER 27, 1927. Class 34.

243,964. WALL PLATES FOR SWITCH BOXES. HEMCO ELECTRIC MANUFACTURING COMPANY, INC., Bridgeport, Conn.
Filed May 19, 1927. Serial No. 249,225. PUBLISHED APRIL 24, 1928. Class 21.

243,965. MAYONNAISE, THOUSAND ISLAND DRESSING, AND A RELISH MADE OF VEGETABLES, OIL, EGGS, AND CONDIMENTS ADAPTED FOR USE ON COLD MEATS OR IN SANDWICHES, SALADS, ETC. BRAMHALL FOOD PRODUCTS CORPORATION, Washington, D. C.
Filed May 9, 1927. Serial No. 248,670. PUBLISHED NOVEMBER 29, 1927. Class 46.

243,966. ELECTRIC SMOOTHING IRONS. HALBERT G. MARSH, doing business as Acme Company, Birmingham, Ala.
Filed April 23, 1927. Serial No. 247,903. PUBLISHED APRIL 24, 1928. Class 21.

243,967. LIQUID SAUCE OR FLAVORING KNOWN AS SOY. HIYAMA SHOTEN, Honolulu, Territory of Hawaii.
Filed April 18, 1927. Serial No. 247,616. PUBLISHED APRIL 24, 1928. Class 46.

243,968. GAS HOT-WATER HEATERS. PITTSBURGH WATER HEATER COMPANY, Pittsburgh, Pa.
Filed February 5, 1927. Serial No. 243,880. PUBLISHED APRIL 3, 1928. Class 34.

243,969. DESSERT POWDERS, ICE-CREAM POWDERS, COCOA, SPICES, PIE-TOPPING PREPARATIONS, FOOD-ICING PREPARATIONS, SEASONINGS FOR SAUSAGES AND MEAT PRODUCTS, SAUSAGE FLOUR, AND FOOD-FLAVORING EXTRACTS. B. HELLER & COMPANY, Chicago, Ill.
Filed January 28, 1927. Serial No. 243,490. PUBLSHED APRIL 24, 1928. Class 46.

243,970. GASOLINE OR PRESSURE-VAPOR STOVES, PARTS THEREOF, AND FUEL-SUPPLY TANKS FOR DETACHABLE CONNECTION TO SUCH STOVES. PERFECTION STOVE COMPANY, Cleveland, Ohio.
Filed January 17, 1927. Serial No. 242,963. PUBLISHED APRIL 24, 1928. Class 34.

243,971. GALVANIZED-IRON LOUVER VENTILATORS, LEADER PIPES, LEADER HEADS, VENTILATOR ELBOWS, VENTILATOR OUTLETS, VENTILATOR FAN, AND PUMP OUTLETS. YAGER SHEET METAL COMPANY, Oakland, Calif.
Filed October 28, 1926. Serial No. 239,393. PUBLISHED APRIL 24, 1928. Class 34.

243,972. TELLTALE DEVICES FOR INDICATING WHETHER LAMPS ARE LIGHTED OR UNLIGHTED. AMERICAN CHAIN COMPANY, INC., New York, N. Y., and Bridgeport, Conn.
Filed May 12, 1926. Serial No. 231,468. PUBLISHED APRIL 24, 1928. Class 19.

243,973. HEATING APPARATUS AND SPECIALTIES. MODINE MANUFACTURING COMPANY, Racine, Wis.
Filed March 25, 1926. Serial No. 229,189. PUBLISHED APRIL 24, 1928. Class 34.

243,974. WATCHES. L. H. BURNETT, doing business as Burnett Bros., San Francisco, Calif.
Filed March 6, 1926. Serial No. 228,224. PUBLISHED APRIL 24, 1928. Class 27.

243,975. ENAMELED TANKS FOR USE IN THE MANUFACTURE, TRANSPORTATION, AND STORAGE OF LIQUID PRODUCTS. THE GLASCOTE COMPANY, Euclid, Ohio.
Filed January 25, 1926. Serial No. 226,352. PUBLISHED APRIL 24, 1928. Class 2.

243,976. CANDIES OF ALL KINDS; CANDIED NUT PRODUCTS—NAMELY, CHOCOLATE-COVERED NUTS, CHOCOLATE ROASTED ALMONDS, POWDERED ALMOND PASTE, CONFECTIONERS' AND BAKERS' PASTES, CAKE FILLERS, COCOA, CHOCOLATE, AND ICING. HENRY HEIDE, INCORPORATED, New York, N. Y.
Filed December 26, 1925. Serial No. 225,186. PUBLISHED MARCH 13, 1928. Class 46.

243,977. FLAVORING EXTRACTS FOR FOODS. VIRGINIA DARE EXTRACT COMPANY, INC., Brooklyn, N. Y.
Filed February 20, 1928. Serial No. 262,005. PUBLISHED APRIL 24, 1928. Class 46.

243,978. GENERAL TONIC HAVING A WINE BASE. SAMUEL PAUL, doing business as The Hollywood Laboratory, Los Angeles, Calif.
Filed February 20, 1928. Serial No. 261,982. PUBLISHED APRIL 24, 1928. Class 6.

243,979. METAL CLIPS FOR FASTENING WOOD FLOORS OR THE LIKE TO A CONCRETE CONSTRUCTION. WILLIAM C. KRABIEL, doing business as Bull Dog Floor Clip Company, Winterset, Iowa.
Filed February 20, 1928. Serial No. 261,962. PUBLISHED APRIL 24, 1928. Class 13.

243,980. ELECTRIC HOUSEHOLD IRONS—TO WIT, SADIRONS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed February 18, 1928. Serial No. 261,925. PUBLISHED APRIL 24, 1928. Class 21.

243,981. COMPOUND OF VEGETABLE FAT CONSISTING PRINCIPALLY OF COCOANUT OIL FOR FRYING, BAKING, AND SHORTENING. VEJOLA COMPANY, INC., Philadelphia, Pa.
Filed February 18, 1928. Serial No. 261,920. PUBLISHED APRIL 24, 1928. Class 46.

243,982. UNDERGROUND GARBAGE CONTAINERS. FRANK A. PIKE, Rochester, N. Y.
Filed February 18, 1928. Serial No. 261,905. PUBLISHED APRIL 24, 1928. Class 2.

243,983. RADIO LOUD SPEAKERS. THE AIR-CHROME STUDIOS, INC., Irvington, N. J.
Filed February 18, 1928. Serial No. 261,855. PUBLISHED APRIL 24, 1928. Class 21.

243,984. CANNED OYSTERS AND CANNED FRUIT. S. S. GOFFIN, Jacksonville, Fla.
Filed February 17, 1928. Serial No. 261,808. PUBLISHED APRIL 24, 1928. Class 46.

243,985. ELECTRIC LIGHTING FIXTURES AND ELECTRIC LAMPS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed February 16, 1928. Serial No. 261,773. PUBLISHED APRIL 24, 1928. Class 21.

243,986. FINGER RINGS. INTERSTATE SMELTING & REFINING CO. INC., Newark, N. J.
Filed February 16, 1928. Serial No. 261,755. PUBLISHED APRIL 24, 1928. Class 28.

243,987. WATCHES AND CLOCKS. THE NEW HAVEN CLOCK COMPANY, New Haven, Conn.
Filed February 15, 1928. Serial No. 261,716. PUBLISHED APRIL 24, 1928. Class 27.

243,988. FRESH CITRUS FRUITS. W. J. HOWEY CO., Howey-in-the-Hills, Fla.
Filed February 14, 1928. Serial No. 261,675. PUBLISHED APRIL 24, 1928. Class 46.

243,989. GLASS JARS AND GLASSES. ILLINOIS GLASS COMPANY, Alton, Ill.
Filed February 13, 1928. Serial No. 261,632. PUBLISHED APRIL 24, 1928. Class 33.

243,990. FERROUS-METAL CASTINGS HAVING FERROUS-ALLOY CONTENT. PULLMAN CAR AND MANUFACTURING CORPORATION, Chicago, Ill.
Filed February 11, 1928. Serial No. 261,587. PUBLISHED APRIL 17, 1928. Class 14.

243,991. MOTH REPELLENT. CREOFLOAT MANUFACTURING CO., INC., Seattle, Wash.
Filed February 7, 1928. Serial No. 261,306. PUBLISHED APRIL 24, 1928. Class 6.

243,992. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. CHARLES TUROW, New York, N. Y.
Filed February 6, 1928. Serial No. 261,291. PUBLISHED APRIL 24, 1928. Class 28.

243,993. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. SAMUEL LEVINE AND ABRAHAM FRUCHTBAUM, New York, N. Y.
Filed February 6, 1928. Serial No. 261,270. PUBLISHED APRIL 24, 1928. Class 28.

243,994. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. KRUGER & GOTTLIEB, New York, N. Y.
Filed February 6, 1928. Serial No. 261,265. PUBLISHED APRIL 24, 1928. Class 28.

243,995. CONCENTRATED LIQUID MALT EXTRACTS. MALT-DIASTASE COMPANY, New York, N. Y.
Filed February 4, 1928. Serial No. 261,199. PUBLISHED APRIL 24, 1928. Class 46.

243,996. GOLD, SILVER, AND PLATINUM FINGER RINGS. MAX JOHNSON, doing business as Johnson Bros., New York, N. Y.
Filed February 1, 1928. Serial No. 261,009. PUBLISHED APRIL 24, 1928. Class 28.

243,997. MAYONNAISE, THOUSAND ISLAND DRESSING, AND PREPARED MUSTARD. LEADER FOOD PRODUCTS CO., Chicago, Ill.
Filed March 2, 1928. Serial No. 262,519. PUBLISHED APRIL 24, 1928. Class 46.

243,998. COFFEE. KATSAFANAS COFFEE COMPANY, Pittsburgh, Pa.
Filed March 1, 1928. Serial No. 262,463. PUBLISHED APRIL 24, 1928. Class 46.

243,999. PLATINUM BRACELETS. ANDERSON & KROENER, New York, N. Y.
Filed March 1, 1928. Serial No. 262,438. PUBLISHED APRIL 24, 1928. Class 28.

244,000. FERTILIZER. SYNTHETIC NITROGEN PRODUCTS CORPORATION, New York, N. Y.
Filed February 29, 1928. Serial No. 262,429. PUBLISHED APRIL 24, 1928. Class 10.

244,001. REFINED, SEMIREFINED, AND UNREFINED OILS MADE FROM PETROLEUM, BOTH WITH AND WITHOUT ADMIXTURE OF ANIMAL, VEGETABLE, OR MINERAL OILS, FOR ILLUMINATING, BURNING, POWER, FUEL, AND LUBRICATING PURPOSES AND LUBRICATING GREASES. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed February 29, 1928. Serial No. 262,421. PUBLISHED APRIL 24, 1928. Class 15.

244,002. ALUMINUM ALLOYS. THE EGAL METAL PRODUCTS COMPANY, Baltimore Md.
Filed February 28, 1928. Serial No. 262,352. PUBLISHED APRIL 17, 1928. Class 14.

244,003. EGG NOODLES. EDWARD P. VELAT, doing business as Ritsy Products Co., St Paul, Minn.
Filed February 27, 1928. Serial No. 262,337. PUBLISHED APRIL 24, 1928. Class 46.

244,004. FRESH POTATOES. LINCOLN WILDER CO., INC., St. Louis, Mo.
Filed February 27, 1928. Serial No. 162,314. PUBLISHED APRIL 24, 1928. Class 46.

244,005. FRESH FRUIT—NAMELY, APPLES, DRIED FRUIT, CANNED FISH, CANNED FRUIT AND VEGETABLES. CRON & DEHN, INC., Seattle, Wash.
Filed February 27, 1928. Serial No. 262,293. PUBLISHED APRIL 24, 1928. Class 46.

244,006. PREPARATION FOR STOPPING RUNS IN HOSIERY AND SILK. S. B. WRIGHT, doing business as Wright Products Co., Chicago, Ill.
Filed February 25, 1928. Serial No. 262,279. PUBLISHED APRIL 24, 1928. Class 6.

244,007. LUBRICATING OIL AND GREASE. PENN PETROLEUM AND SUPPLY COMPANY, Philadelphia, Pa.
Filed February 25, 1928. Serial No. 262,257. PUBLISHED APRIL 24, 1928. Class 15.

244,008. CANDY. CLARENCE A. CRANE, doing business as Cartier, Cleveland, Ohio.
Filed February 25 1928. Serial No. 262,209. PUBLISHED APRIL 24, 1928. Class 46.

244,009. FOOD PRODUCT IN GRANULAR AND FLAKED FORM CONTAINING NUTRITIVE ELEMENTS OF MALT, COCOA, AND MILK. MALTZYME COMPANY, INC., Long Island City, N. Y.
Filed February 24, 1928. Serial No. 262,172. PUBLISHED APRIL 24, 1928. Class 46

244,010. HAND CREAM. MAGDALEN S. WHITLOCK, Clarendon, Va.
Filed February 23, 1928. Serial No. 262,139. PUBLISHED APRIL 17, 1928. Class 6.

244,011. COTTON AND SILK PIECE GOODS AND MIXTURES INCLUDING RAYON. WARREN MANUFACTURING COMPANY, Warren, R. I.
Filed February 23, 1928. Serial No. 262,137. PUBLISHED APRIL 24, 1928. Class 42.

244,012. PRODUCT FOR USE AS A LAXATIVE. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed February 23, 1928. Serial No. 262,107. PUBLISHED APRIL 24, 1928. Class 6.

244,013. CANNED SAUERKRAUT, SAUERKRAUT JUICE, CANNED PEAS, CANNED CORN, CANNED TOMATOES, AND MALT SYRUPS. KLOTTER & NORTON CO., Chicago, Ill.
Filed February 23, 1928. Serial No. 262,090. PUBLISHED APRIL 24, 1928. Class 46.

244,014. HAIR RESTORER. EDWARD B. CRUMP, Louisville, Ky.
Filed February 23, 1928. Serial No. 262,064. PUBLISHED APRIL 24, 1928. Class 6.

244,015. CARBON PAPER. THE SMITH PREMIER TYPEWRITER COMPANY, Syracuse and New York, N. Y.
Filed February 21, 1928 Serial No. 262,042. PUBLISHED APRIL 24, 1928. Class 11.

244,016. FINGER RINGS, BAR PINS, BROOCHES, PENDANTS, CHARMS, CUFF LINKS, AND SCARF-PINS. W. J. HARBER CO., INC., New York, N. Y.
Filed February 21, 1928. Serial No. 262,030. PUBLISHED APRIL 24, 1928. Class 28.

244,017. OINTMENTS USED IN THE TREATMENT OF COLD SORES, CHAPPED HANDS AND LIPS, SKIN ERUPTIONS, PIMPLES, AND BLACKHEADS, IVY POISONING, BURNS AND SCALDS, SUNBURN, SCRATCHES, CUTS, AND WOUNDS, AND IN THE TREATMENT OF DRY, ROUGH, CHAFED AND REDDENED (SPECIFICALLY INFANTS) SKIN, AND THE MUCOUS MEMBRANE. HILDA LEVEEN, doing business as Trinity Pharmacal Co., Boston, Mass.
Filed June 9, 1927. Serial No. 250,246. PUBLISHED APRIL 17, 1928. Class 6.

244,018. CERTAIN NAMED TOILET PREPARATIONS. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,763. Class 6.

244,019. CERTAIN NAMED TOILET PREPARATIONS. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,764. Class 6.

244,020. CERTAIN NAMED TOILET PREPARATIONS. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,751. Class 6.

244,021. CERTAIN NAMED TOILET PREPARATIONS. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,752. Class 6.

244,022. CERTAIN NAMED TOILET PREPARATIONS. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,747. Class 6.

244,023. CERTAIN NAMED TOILET PREPARATIONS. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,748. Class 6.

244,024. CERTAIN NAMED TOILET PREPARATIONS. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,749. Class 6.

244,025. CERTAIN NAMED TOILET PREPARATIONS. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,750. Class 6.

244,026. CERTAIN NAMED TOILET PREPARATIONS. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,746. Class 6.

244,027. CERTAIN NAMED TOILET PREPARATIONS LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,754. Class 6.

244,028. CERTAIN NAMED TOILET PREPARATIONS. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,753. Class 6.

244,029. CERTAIN NAMED TOILET PREPARATIONS. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,755. Class 6.

244,030. CERTAIN NAMED TOILET PREPARATIONS. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,756. Class 6.

244,031. CERTAIN NAMED TOILET PREPARATIONS. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,757. Class 6.

244,032. CERTAIN NAMED TOILET PREPARATIONS. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,758. Class 6.

244,033. CERTAIN NAMED TOILET PREPARATIONS. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,759. Class 6.

244,034. CERTAIN NAMED TOILET PREPARATIONS. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,760. Class 6.

244,035. CERTAIN NAMED TOILET PREPARATIONS. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,761. Class 6.

244,036. CERTAIN NAMED TOILET PREPARATIONS. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,762. Class. 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

244,037. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CARL FISCHER INC., New York, N. Y. Filed Mar. 23, 1928. Serial No. 263,647.

Mathias Heinicke

For Violins, Violas, Cellos, and Bass Viols.
Claims use since January, 1923.

244,038. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ALBERT H. TINNERMAN, doing business as Tinnerman Stove & Range Company, Cleveland, Ohio. Filed Apr. 5, 1928. Serial No. 264,395.

"SPEED NUT"

For Nuts.
Claims use since 1923.

244,039. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CLIFTON MANUFACTURING COMPANY, Jamaica Plain, Boston, Mass. Filed Apr. 6, 1928. Serial No. 264,420.

CLIFTON

For Rubberized Textile Fabrics, Including Rubberized Duck.
Claims use since July 1, 1907.

244,040. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MARYLAND CREAMERY CO., Baltimore, Md. Filed Apr. 12, 1928. Serial No. 264,729.

Jersey

For Ice Cream.
Claims use since Feb. 1, 1926.

244,041. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE W. SEIDEL, Evanston, Ill. Filed Apr. 19, 1928. Serial No. 265,122.

The Home of Good Baking
SEIDEL'S

For Bakery Goods—Namely, Lady Fingers, Almond Macaroons, Plain and Sweet Rolls, Cookies, Doughnuts, and Breads.
Claims use since 1915.

244,042. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GREAT ATLANTIC & PACIFIC TEA CO., New York, N. Y. Filed May 4, 1928. Serial No. 265,902.

BROCKPORT

For Canned Peas.
Claims use since Oct. 29, 1926.

244,043. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT G. MAAS, Indianapolis, Ind. Filed May 4, 1928. Serial No. 265,911.

"SUDDEN DEATH"

For Insecticide.
Claims use since 1919.

244,044. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT G. MAAS, Indianapolis, Ind. Filed May 4, 1928. Serial No. 265,914.

Barium Carbonate
ALBERT G. MAAS

For Preparation for Exterminating Rats and Mice.
Claims use since February, 1920.

244,045. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) WEBB BELTING CO., Kansas City, Mo. Filed May 5, 1928. Serial No. 266,000.

WEATHER-PROOF

For Leather Belting.
Claims use since about 1922.

244,046. (CLASS 7. CORDAGE.) THE MORDT COMPANY, Chicago, Ill. Filed Apr. 11, 1925. Serial No. 212,565.

THE REEL-LINE

For Lines and Ropes—Namely, Clotheslines and Clotheslines Mounted on Reels.
Claims use since Oct. 1, 1924.

244,047. (CLASS 12. CONSTRUCTION MATERIALS.) THE BARBER ASPHALT COMPANY, Philadelphia, Pa. Filed July 31, 1926. Serial No. 235,372.

LOX-TITE-STRIP

For Asphalt Shingles.
Claims use since July 20, 1926.

244,048. (CLASS 12. CONSTRUCTION MATERIALS.) THE MILLS COMPANY, Cleveland, Ohio. Filed Sept. 15, 1926. Serial No. 237,274.

MARBL METAL

For Partitions, Doors, Window and Door Frames.
Claims use since about April, 1925.

244,049. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FLEMINGTON MILLING CO., Flemington, N. J. Filed Dec. 23, 1926. Serial No. 241,880.

WHOLBERRY

For Graham Flour and Wheat Flour.
Claims use since Dec. 21, 1926.

244,050. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) WARD COWMAN AND COMPANY, Mallard, Iowa. Filed Mar. 4, 1927. Serial No. 245,237.

WARD HUMIDIFIER

For Device for Supplying Moisture in Cigar Cases and the Like.
Claims use since about Oct. 1, 1926.

244,051. (CLASS 39. CLOTHING.) BAUM BROS. & MAYER NECKWEAR CO., St. Louis, Mo. Filed Apr. 6, 1927. Serial No. 246,997.

TRU-FIT

For Men's and Boys' Neckties and Cravats.
Claims use since Mar. 15, 1927.

244,052. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FAIRMONT RAILWAY MOTORS, INC., Fairmont, Minn. Filed Apr. 25, 1927. Serial No. 247,939.

AXLSAVER

For Roller Bearings.
Claims use since Feb. 17, 1927.

244,053. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FAIRMONT RAILWAY MOTORS, INC., Fairmont, Minn. Filed Apr. 25, 1927. Serial No. 247,940.

RINGSEALD

For Roller Bearings.
Claims use since Feb. 2, 1927.

244,054. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) JOHN FINN, San Francisco, Calif. Filed May 11, 1927. Serial No. 248,823.

FITZ-U

For Movable Automobile Arm Rests.
Claims use since Apr. 20, 1927.

244,055. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BECK PRODUCTS CO., Spokane, Wash. Filed June 13, 1927. Serial No. 250,430.

KRINKLE

For Expander Steel for Piston Rings.
Claims use since May 2, 1927.

244,056. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) O'KEEFE & MERRITT CO., Los Angeles, Calif. Filed June 22, 1927. Serial No. 250,932.

Bakewell

For Gas Ranges.
Claims use since June 23, 1925.

244,057. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY CLAY BUFORD, Sacramento, Calif. Filed July 7, 1927. Serial No. 251,605.

POOL-PAK

For Fresh Peaches, Plums, Pears, and Grapes.
Claims use since May 1, 1927.

244,058. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE ANSONIA CLOCK COMPANY, Brooklyn, N. Y. Filed Oct. 8, 1927. Serial No. 255,786.

SQUARECLOX

For Clocks.
Claims use since about Aug. 1, 1922.

244,059. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PEGGY HORNER, INC., Brooklyn, N. Y. Filed Nov. 26, 1927. Serial No. 258,094.

Peggy Horner's HOMEMADE PRODUCT

For Marmalade; Relishes—Namely, Pepper Hash; Jellies, Jams, and Preserved Fruits.
Claims use since Aug. 7, 1926.

244,060. (CLASS 15. OILS AND GREASES.) LUBRITE REFINING COMPANY, St. Louis, Mo. Filed Jan. 5, 1928. Serial No. 259,738.

Starts Better
Runs Better
IS Better

For Gasoline.
Claims use since about Feb. 23, 1924.

244,061. (CLASS 39. CLOTHING.) LEO R. COHN, doing business as Estes Hosiery Company, Denver, Colo. Filed Mar. 7, 1928. Serial No. 262,701.

Estes

For Hosiery for Men, Women, Children, and Infants.
Claims use since Apr. 8, 1925.

TRADE-MARK REGISTRATIONS RENEWED

31,953. BAND INSTRUMENTS. Registered September 6, 1898. THE BUESCHER MANUFACTURING CO. Renewed September 6, 1928, to Buescher Band Instrument Co., Elkhart, Ind., a Corporation of Indiana, assignee by mesne assignments.

32,041. CERTAIN NAMED PRESERVATIVES. Registered October 11, 1898. THE PRESERVALINE MANUFACTURING CO., New York, N. Y. Renewed October 11, 1928, to The Preservaline Manufacturing Company, Brooklyn, N. Y., a Corporation of New York.

32,083. BOILER FITTINGS AND FURNISHINGS. Registered October 18, 1898. THE RELIANCE GAUGE COMPANY. Renewed October 18, 1928, to The Reliance Gauge Column Company, Cleveland, Ohio, a Corporation of Ohio, assignee.

66,947. ANTISEPTIC SILVER SALTS USED FOR GONORRHEA AND EYE DISEASES. Registered January 7, 1908. CHEMISCHE FABRIK VON HEYDEN AKTIEN-GESELLSCHAFT, Radebeul, near Dresden, Germany. Renewed January 7, 1928, to Heyden Chemical Corporation, Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

69,426. SHOE, BOOT, AND STOVE BLACKINGS AND POLISHES. Registered June 16, 1908. JAS. S. MASON CO. Renewed June 16, 1928, to Philip Fischer, doing business as Jas. S. Mason & Co., Philadelphia, Pa., successor.

69,427. SHOE, BOOT, AND STOVE BLACKINGS AND POLISHES. Registered June 16, 1908. JAS. S. MASON CO. Renewed June 16, 1928, to Philip Fischer, doing business as Jas. S. Mason & Co., Philadelphia, Pa., successor.

69,529. A DISINFECTANT, ANTISEPTIC, AND DEODORIZING PREPARATION. Registered June 16, 1908. SCHOELLKOPF, HARTFORD & HANNA COMPANY, Buffalo, N. Y. Renewed June 16, 1928, to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York, assignee.

69,676. REFINED PETROLEUM. Registered June 30, 1908. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y., a Corporation of New York. Renewed June 30, 1928.

70,303. ENAMELED CAST-IRON BATHTUBS, LAVATORIES, AND BASINS. Registered August 18, 1908. H. MUELLER MANUFACTURING COMPANY. Renewed August 18, 1928, to Mueller Co., Decatur, Ill., a Corporation of Illinois, by change of name.

70,500. PORTLAND CEMENT. Registered September 8, 1908. ALPHA PORTLAND CEMENT COMPANY. Renewed September 8, 1928, to Alpha Portland Cement Company, Easton, Pa., a Corporation of New Jersey, successor.

70,519. A LINIMENT. Registered September 8, 1908. D. RANSOM, SON AND COMPANY, Buffalo, N. Y., a Corporation of New York. Renewed September 8, 1928.

70,548. SOAP. Registered September 15, 1908. THE J. P. DAVIES COMPANY. Renewed September 15, 1928, to The Davies-Young Soap Company, Dayton, Ohio, a Corporation of Ohio, successor.

70,723. CANNED FRUITS AND VEGETABLES. Registered September 29, 1908. BURTON & DAVIS CO., New York, N. Y., a Corporation of New York. Renewed September 29, 1928.

71,080. CERTAIN FOODS. Registered October 27, 1908. UNION CONDENSED MILK COMPANY. Renewed October 27, 1928, to The Borden Company, New York, N. Y., a Corporation of New Jersey, assignee by mesne assignments.

71,081. CERTAIN FOODS. Registered October 27, 1908. UNION CONDENSED MILK COMPANY. Renewed October 27, 1928, to The Borden Company, New York, N. Y., a Corporation of New Jersey, assignee by mesne assignments.

71,175. LAWN. Registered November 10, 1908. A. L. REID & Co., New York, N. Y., a Copartnership. Renewed November 10, 1928.

71,236. FOUNTAIN PENS. Registered November 10, 1908. MABIE, TODD & Co., New York, N. Y., a Corporation of New York. Renewed November 10, 1928.

71,238. REFRIGERATORS. Registered November 10, 1908. THE ODORLESS REFRIGERATION COMPANY. Renewed November 10, 1928, to Tennessee Furniture Corporation, Chattanooga, Tenn., a Corporation of Tennessee, successor.

71,302. CANNED FRUITS. Registered November 17, 1908. THE J. H. FLICKINGER COMPANY, San Jose, Calif., a Corporation of California. Renewed November 17, 1928.

71,306. LEATHER GLOVES, GAUNTLETS, AND MITTENS. Registered November 17, 1908. LOUIS MEYERS & SON. Renewed November 17, 1928, to Louis Meyers & Son, Inc., New York, N. Y., a Corporation of New York, assignee.

71,436. LEAD AND COLORED PENCILS. Registered November 24, 1908. EBERHARD FABER, New York, N. Y. Renewed November 24, 1928, to Eberhard Faber Pencil Company, Brooklyn, N. Y., a Corporation of New York, assignee.

LABELS

REGISTERED JULY 3, 1928.

34,226.—*Title:* MANIHU. For Brooms and Whisk Brooms. AMERICAN BROOM & BRUSH CO., Amsterdam, N. Y. Published March 5, 1928.

34,227.—*Title:* NIAGARA FIRE STOP CARTRIDGE. For Portable Fire Extinguishers. CARL H. ARBENZ, doing business as Niagara Products Co., Glendale, Calif. Published May 1, 1928.

34,228.—*Title:* BISMARCK. For Malt Syrup. THE BISMARCK MALT CO., Baltimore, Md. Published May 17, 1928.

34,229.—*Title:* MAGIC PLASTIQUE LIQUID MASQUE. For a Cosmetic. ALMA COLLIER CHASE, doing business as Alma-Vita, Los Angeles, Calif. Published May 1, 1926.

34,230.—*Title:* LA REJUVENE ASTRINGENT. For a Cosmetic. ALMA COLLIER CHASE, doing business as Alma-Vita, Los Angeles, Calif. Published May 1, 1926.

34,231.—*Title:* KLEN-DERMA CLEANSER. For a Cosmetic. ALMA COLLIER CHASE, doing business as Alma-Vita, Los Angeles, Calif. Published May 1, 1926.

34,232.—*Title:* NU-HAIR HAIR RESTORER. For a Cosmetic. ALMA COLLIER CHASE, doing business as Alma-Vita, Los Angeles, Calif. Published January 5, 1927.

34,233.—*Title:* SIR GALAHAD. For Lemons. CHULA VISTA CITRUS ASSOCIATION, Chula Vista, Calif. Published February 2, 1928.

34,234.—*Title:* COPPERWELD GLASSPORT, PA. For Wire Reels. COPPERWELD STEEL COMPANY, Glassport, Pa. Published May 8, 1928.

34,235.—*Title:* CLEROGLAS. For Glass and Enamel Polish and Cleaner. FRAZIER L. DAVIS, Boston, Mass. Published April 2, 1928.

34,236.—*Title:* EXPELLO. For Moth and Moth-Larvæ Killer. THE EXPELLO CORPORATION, Dover, N. H. Published May 5, 1928.

34,237.—*Title:* PAUL JONES. For Fresh Oranges. FRANCES CITRUS ASSOCIATION, Tustin, Calif. Published February 18, 1928.

34,238.—*Title:* MINUTE MAN'S. For Polishing Compound for Automobiles, Furniture, Metal, and Woodwork. GEORGE E. GROSSMAN, doing business as G-G PRODUCTS COMPANY, Cleveland Heights, Ohio. Published April 7, 1928.

34,239.—*Title:* HORSE FEATHERS. For Candy Bar. MRS. R. L. HEATH, Oconto, Wis. Published February 2, 1928.

34,240.—*Title:* THE BRADLEY SHOE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 16, 1928.

34,241.—*Title:* THE HANNAH SHOE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 7, 1928.

34,242.—*Title:* STERLING SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 27, 1928.

34,243.—*Title:* WYNE-PAK. For Jellies. CAROLINE HOLLISTER, doing business as Wyne-Pak Distributors, Santa Rosa, Calif., and New York, N. Y. Published December 26, 1927.

34,244.—*Title:* WHITE ELEPHANT RICE. For Rice. KOH & SONS, LTD., Bangkok, Siam. Published February 17, 1928.

34,245.—*Title:* EASTSIDE. For a Beverage. LOS ANGELES BREWING CO., Los Angeles, Calif. Published March 24, 1928.

34,246.—*Title:* TOMORROW'S ORDERS. For Milk. WILLIAM MAXSTADT, Cincinnati, Ohio. Published May 10, 1927.

34,247.—*Title:* PAUL REVERE. For Fresh Oranges. ORANGE MUTUAL CITRUS ASSOCIATION, Orange, Calif. Published April 10, 1928.

34,248.—*Title:* OREGON BRAND. For Evaporated Unsweetened Milk. OREGON MILK COMPANY, Portland, Oreg. Published May 21, 1928.

34,249.—*Title:* GUAIASUL. For Medicinal Preparation for Relieving Coughs. PHYSICIANS & HOSPITALS SUPPLY CO., INC., Minneapolis, Minn. Published May 16, 1928.

34,250. *Title:* REAL SILK SHEER CHIFFON HOSIERY. For Hosiery. REAL SILK HOSIERY MILLS, INC., Indianapolis, Ind. Published May 4, 1928.

34,251.—*Title:* MAGIKITCH'N. For Sifters. ERNEST REICH, doing business as Ernest Reich & Company, Chicago, Ill. Published January 16, 1928.

34,252.—*Title:* RACO. For Electrical Protecting Material. ROACH-APPLETON MANUFACTURING COMPANY, Chicago, Ill. Published June 29, 1927.

34,253.—*Title:* EVERFRESH. For Egg Preserver. ROLLAND PRODUCTS COMPANY, Detroit, Mich. Published March 1, 1928.

34,254.—*Title:* TWIN 6. For Eggs. ROTH & COMPANY, Orange, N. J. Published March 15, 1928.

34,255.—*Title:* RED DEVIL INSECT KILLER. For Insect Exterminator. HYMAN SADUR, doing business as Red Devil Chemical Works, Chicago, Ill. Published February 27, 1928.

34,256.—*Title:* CHILD'S EMBROIDERY SET. For Novelty Consisting of a Scarf, Pillow Top, Pair of Fiber Embroidery Hoops, Embroidery Floss, Thimble, and Needle. VIRGINIA SNOW, Elgin, Ill. Published May 9, 1928.

34,257.—*Title:* PLAYTIME EMBROIDERY BOX. For Novelty Consisting of a Scarf, Pillow Top, Pair of Fiber Embroidery Hoops, Embroidery Floss, Thimble, and Needle. VIRGINIA SNOW, Elgin, Ill. Published May 9, 1928.

34,258.—*Title:* CHILD'S EMBROIDERY SET. For Novelty Consisting of a Quilt, Pair of Embroidery Hoops, Thimble, Needle, and Embroidery Floss. VIRGINIA SNOW, Elgin, Ill. Published May 9, 1928.

34,259.—*Title:* STERLING. For Malt Extract. STERLING PRODUCTS COMPANY, Evansville, Ind. Published April 28, 1928.

34,260.—*Title:* MICHIGAN CLOVER. For Butter. SUTHERLAND PAPER COMPANY, Kalamazoo, Mich. Published April 25, 1928.

34,261.—*Title:* TASTY NUT SHOPS, INC. For Nuts. TASTY NUT SHOPS, INC., Cleveland, Ohio. Published April 10, 1928.

34,262.—*Title:* TEX WHOLE WHEAT BREAD. For Bread. TEXAS BREAD COMPANY, Houston, Tex. Published October 15, 1927.

34,263.—*Title:* HOLSUM BREAD. For Bread. TEXAS BREAD COMPANY, Houston, Tex. Published October 15, 1927.

34,264.—*Title:* WHEATSWORTH GRAHAM CRACKERS. For Crackers. WHEATSWORTH, INC., New York, N. Y. Published March 13, 1928.

34,265.—*Title:* INDIVIDUAL SERVICE PACKAGE WHEATSWORTH GRAHAM CRACKERS. For Crackers. WHEATSWORTH, INC., New York, N. Y. Published March 13, 1928.

34,266.—*Title:* WOLOCK & BAUER. For Shoes. WOLOCK & BAUER, Chicago, Ill. Published March 12, 1928.

34,267.—*Title:* SUPERB POTATOES. For Sacked Potatoes. ROSCOE C. ZUCKERMAN, Stockton, Calif. Published April 10, 1928.

PRINTS

REGISTERED JULY 3, 1928.

10,954.—*Title:* TEMPERATURE CHART. For Gas Ranges. AMERICAN STOVE COMPANY, St. Louis, Mo.; Chicago, Ill.; and Cleveland and Lorain, Ohio. Published December 8, 1927.

10,955.—*Title:* A FACE LIKE A WEARY OLD SHOE. For Venetian Toilet Preparations. ELIZABETH ARDEN, INC., doing business as Elizabeth Arden, New York, N. Y. Published March 24, 1928.

10,956.—*Title:* HOW EXQUISITELY BEAUTIFUL ARE THE BRACELET WATCHES OF TODAY. For Jewelry. BLACK, STARR & FROST, New York, N. Y. Published May 15, 1928.

10,957.—*Title:* WHY THE KNOWING MILLIONS SAY. For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published May 18, 1928.

10,958.—*Title:* THE FIT THAT'S WORLD-FAMOUS. For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published May 19, 1928.

10,959.—*Title:* COLLINGBOURNE'S SPARKLING TINSEL. For Tinsel Gift Cord. COLLINGBOURNE MILLS, INC., Elgin, Ill. Published April 20, 1928.

10,960.—*Title:* COLCREME COTY CLEANSING—NOURISHING—BEAUTIFYING. For Face Cream. COTY, INC., Wilmington, Del., and New York, N. Y. Published May 15, 1928.

10,961.—*Title:* LES POUDRES COTY TO BE FRESHLY LOVELY THROUGHOUT SUMMER DAYS. For Powders. COTY, INC., Wilmington, Del., and New York, N. Y. Published May 15, 1928.

10,962.—*Title:* LES POUDRES COTY. For Face Powder. COTY, INC., Wilmington, Del., and New York, N. Y. Published April 12, 1928.

10,963.—*Title:* DOUBLE COMPACTE COTY. For Powder and Rouge Compact, and Lipstick. COTY, INC., Wilmington, Del., and New York, N. Y. Published May 21, 1928.

10,964.—*Title:* LE TALC COTY. For Talcum Powders. COTY, INC., Wilmington, Del., and New York, N. Y. Published May 21, 1928.

10,965.—*Title:* TOO BIG FOR THE NURSERY—NOT BIG ENOUGH FOR SCHOOL. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published May 10, 1928.

10,966.—*Title:* CHESTY JIM. For Tires. THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Published February 1, 1928.

10,967.—*Title:* GOOD (WINGFOOT) YEAR THE WORLD'S GREATEST TIRE. For Tires Composed Wholly or in Part of Rubber. THE GOODYEAR TIRE & RUBBER COMPANY INC., Akron, Ohio. Published April 23, 1928.

10,968.—*Title:* USE THUNDERBOLT TIRE PATCH. For Tire Patches. FRED J. HAGERLING, St. Louis, Mo. Published April 21, 1928.

10,969.—*Title:* IN ENTERTAINING AS IN OPERA SINGING. For Heinz "57" Varieties. H. J. HEINZ COMPANY, doing business as Heinz, Pittsburgh, Pa. Published February 1, 1928.

10,970.—*Title:* WHITE ROSE WEDDING RING. For Wedding Rings. JOSEPH L. HERZOG & Co., New York, N. Y. Published March 1, 1928.

10,971.—*Title:* CALIFORNIA SIERRA TONIC MADE WITH PORT OR SHERRY BUILDS YOU UP. For Wine Tonic. ITALIAN VINEYARD CO., Los Angeles and Guasti, Calif. Published February 13, 1928.

10,972.—*Title:* GUASTI PURE CALIFORNIA COOKING WINES. For Wine Flavoring and Sauces. ITALIAN VINEYARD CO., Los Angeles and Guasti, Calif. Published February 8, 1928.

10,973.—*Title:* GUASTI TONIC. For Wine Tonic. ITALIAN VINEYARD CO., Los Angeles and Guasti, Calif. Published February 13, 1928.

10,974.—*Title:* THE ROLLER. For Printing Inks. CHARLES ENEU JOHNSON AND COMPANY, Philadelphia, Pa. Published February 1, 1928.

10,975.—*Title:* THE TARGET. For Printing Inks. CHARLES ENEU JOHNSON AND COMPANY, Philadelphia, Pa. Published March 1, 1928.

10,976.—*Title:* THE TEMPEST OF COLORS. For Printing Inks. CHARLES ENEU JOHNSON AND COMPANY, Philadelphia, Pa. Published April 1, 1928.

10,977.—*Title:* PHOTO BROWN. For Printing Inks. CHARLES ENEU JOHNSON AND COMPANY, Philadelphia, Pa. Published November 1, 1927.

10,978.—*Title:* ENEU BLACK. For Printing Inks. CHARLES ENEU JOHNSON AND COMPANY, Philadelphia, Pa. Published October 1, 1927.

10,979.—*Title:* THE RAINBOW. For Printing Inks. CHARLES ENEU JOHNSON AND COMPANY, Philadelphia, Pa. Published January 1, 1928.

10,980.—*Title:* KING COAL. For Coal. KING COAL AND SUPPLY COMPANY, INC., Baltimore, Md. Published April 2, 1928.

10,981.—*Title:* YOUR SKIN NEEDS A PROFESSIONAL TREATMENT ONCE A WEEK. For Marinello Products. THE MARINELLO COMPANY, New York, N. Y. Published April 25, 1928.

10,982.—*Title:* UNTIL YOU SEE TIP-TOP YOU WILL NEVER KNOW HOW FINE A WRIST-WATCH $3.50 CAN BUY. For Watches. THE NEW HAVEN CLOCK COMPANY, New Haven, Conn. Published April 7, 1928.

10,983.—*Title:* TRY TO MATCH TIP-TOP'S FEATURES AT ANYWHERE NEAR ITS PRICE. For Watches. THE NEW HAVEN CLOCK COMPANY, New Haven, Conn. Published April 1, 1928.

10,984.—*Title:* DESIGNED FOR LOOKS, MADE FOR SERVICE, TIP-TOP GRACES ANY WRIST. For Watches. THE NEW HAVEN CLOCK COMPANY, New Haven, Conn. Published March 10, 1928.

10,985.—*Title:* CLEAN-CUT, TRIM AND FIT, TIP-TOP LOOKS TWICE THE PRICE IN ANY COMPANY. For Watches. THE NEW HAVEN CLOCK COMPANY, New Haven, Conn. Published February 25, 1928.

10,986.—*Title:* TIP-TOP—THE FINEST WRIST-WATCH $3.50 EVER BOUGHT. For Watches. THE NEW HAVEN CLOCK COMPANY, New Haven, Conn. Published February 1, 1928.

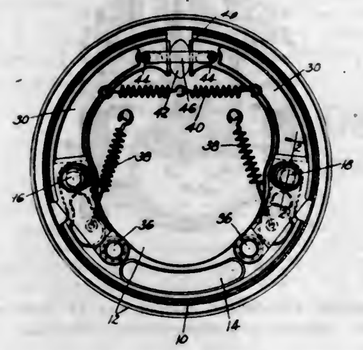
10,987.—*Title:* R. B. C. For Concentrated Pure and Imitation Fruit Flavored Drinks. RED BIRD CHILLI COMPANY, St. Joseph, Mo. Published April 25, 1928.

10,988.—*Title:* THE OUNCE OF PROTECTION. For Sanitary Belts, Sanitary Aprons, Step-Ins, and Bloomers. A. STEIN & COMPANY, Chicago, Ill. Published October 13, 1927.

REISSUES

JULY 3, 1928.

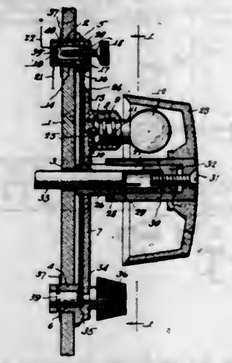
17,015. BRAKE. WILLIAM J. ANDRES, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 18, 1928. Serial No. 247,722. Original No. 1,640,589, dated Aug. 30, 1927, Serial No. 46,041, filed July 25, 1925. 34 Claims. (Cl. 188—78.)



1. A brake for a vehicle comprising, in combination, a retarding device, anchoring means engaging the retarding device, and a pair of oppositely-effective servo devices, one of which is arranged to operate the retarding device when the vehicle is moving forward and the other of which is arranged to operate the retarding device when the vehicle is moving backward.

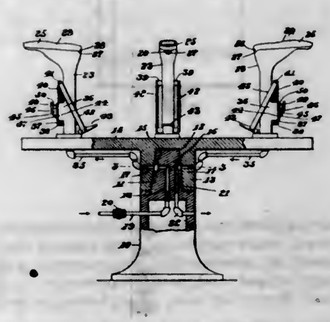
17,016. [WITHDRAWN.]

17,017. ILLUMINATED DIAL. WILLIAM C. BUCHHOLZ and FRANK BUCHHOLZ, Brooklyn, N. Y. Filed Oct. 4, 1926. Serial No. 139,540. Original No. 1,566,069, dated Dec. 15, 1925, Serial No. 31,368, filed May 19, 1925. 6 Claims. (Cl. 240—2.)



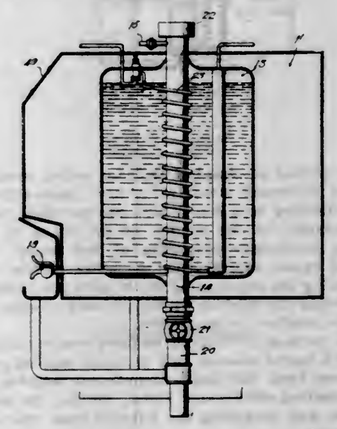
4. The combination with a radio apparatus provided with a dial, of means including a lamp for illuminating said dial, and a knob for actuating said dial, said knob being formed as a hood for covering part of said lamp so that the same will illuminate the dial.

17,018. INNERSOLE-APPLYING DEVICE. GEORGE F. QUINBY, Boston, Mass., assignor, by mesne assignments, to Karl S. Howard, St. Louis, Mo. Filed Apr. 17, 1928. Serial No. 270,709. Original No. 1,352,145, dated Sept. 7, 1920, Serial No. 335,538, filed Nov. 3, 1919. 33 Claims. (Cl. 12—39.)



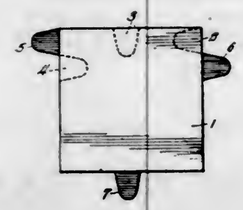
16. In a device of the class described, a pedestal; a revoluble table mounted thereon; a plurality of shoe supports on said table; an inflatable pad on the top of each shoe support; and means whereby during the rotation of said table air is admitted to each pad, retained therein and then exhausted therefrom.

17,019. REFRIGERATING SYSTEM. CARTER F. HALL and FREDERICK W. LEE, Baltimore, Md.; said Lee assignor to said Hall. Filed May 26, 1928. Serial No. 280,664. Original No. 1,669,465, dated May 15, 1928, Serial No. 225,871, filed Oct. 13, 1927. 4 Claims. (Cl. 62—141.)



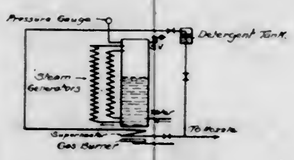
3. A liquid cooling apparatus comprising a container for liquid to be cooled, an evaporator for cooling said container, a brine tank surrounding said evaporator, a second container surrounding said brine tank, evaporator, and container, said second named container being adapted to receive ice, or other refrigerants, and means for supplying and withdrawing a volatile refrigerant from said evaporator.

17,020. PAVING BLOCK. LEON J. D. HEALY, Milwaukee, Wis., assignor to Wright Rubber Products Company, Racine, Wis., a Corporation of Wisconsin. Filed Feb. 2, 1925. Serial No. 6,469. Original No. 1,473,767, dated Nov. 13, 1923, Serial No. 490,038, filed Aug. 5, 1921. 8 Claims. (Cl. 94—13.)



1. A paving block comprising a substantially rectilinear body having a finger projecting from each of the opposite edges thereof in asymmetrical arrangement, and a correspondingly shaped and positioned recess on the edge opposite said finger, all being offset from the medial line.

17,021. STEAM-CLEANING METHOD AND APPARATUS. STUART A. WIER, Dallas, Tex. Filed May 5, 1928. Serial No. 275,533. Original No. 1,607,034, dated Nov. 16, 1926, Serial No. 736,142, filed Sept. 5, 1924. 25 Claims. (Cl. 299—84.)

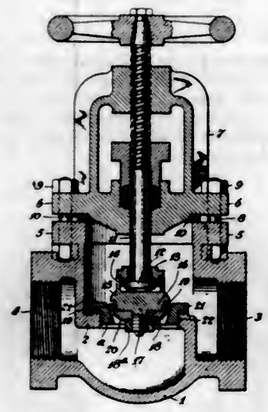


1. The method of cleaning surfaces, which consists in generating saturated steam at a low temperature and pressure, dividing such steam into two portions, reducing the temperature of one portion of the steam so as to produce a condensate consisting of hot water or hot water and vapor, superheating the other portion of the steam, mixing the superheated steam with the condensate, and projecting the mixture by the pressure of such steam against the surface to be treated.

22. The method of cleaning surfaces which consists in producing a heated gaseous fluid of water content under a low pressure head, forming a saponaceous solution therewith, generating superheated steam, uniting the solution and steam, and projecting the mixture upon the surface to be treated.

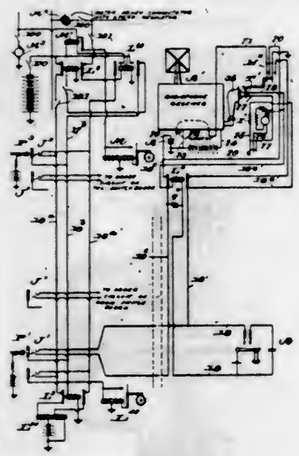
17,022. RECIPROCATING VALVE. WYLIE GEMMEL WILSON, Elizabeth, N. J. Filed Aug. 23, 1927. Serial No. 214,939. Original No. 1,616,672, dated Feb. 8, 1927, Serial No. 43,906, filed July 16, 1925. 5 Claims. (Cl. 251—27.)

1. A valve including a plurality of valve sealing members, each of which has a tapered wall, one opposable to the other in a valve closing movement, in combination with a deformable and deformably mounted metal sealing



ring having a peripheral margin and an inner circumferential margin both substantially cylindrical.

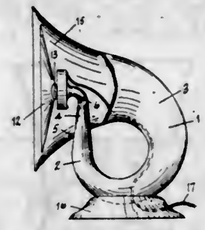
17,023. RADIO METERING SYSTEM. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed Jan. 6, 1927. Serial No. 159,460. Original No. 1,522,359, dated Jan. 6, 1925, Serial No. 581,831, filed Aug. 14, 1922. 20 Claims. (Cl. 179—7.)



1. A system for rendering measured radio service in combination with telephone service, comprising a plurality of subscribers' stations, a telephone central station, wire lines interconnecting them, a radio central station having access to and means for connecting with said wire telephone lines, a plurality of radio subscriber's receiving stations also having access to and associated with said wire telephone lines, radio receiving apparatus at each subscriber's station, means controlled in the use of said apparatus to produce a change in the condition of the wire line leading from said substation, and metering means at the central station responsive to such changed condition of the line to register the use of the substation radio apparatus, but irresponsive to any changes produced in the use of the telephone apparatus as such.

17,024. LOUD SPEAKER. FAY O. FARWELL, Toledo, Ohio. Filed Jan. 13, 1927. Serial No. 161,016. Original No. 1,602,969, dated Oct. 12, 1926, Serial No. 90,727, filed Feb. 26, 1926. 7 Claims. (Cl. 179—116.)

1. In combination, a large diaphragm to produce one tone quality, a small diaphragm actuated in unison with the large diaphragm to produce sound waves, means to amplify the said sound waves to produce another tone quality in unison with the first tone quality which produces a third tone quality unlike either when produced

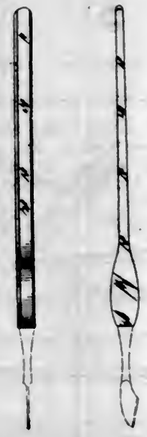


separately the large diaphragm being directly in the path of the amplified waves produced by the smaller diaphragm.

DESIGNS

JULY 3, 1928.

75,672. MANICURE IMPLEMENT. HAMILTON C. BATES, Chester, Conn., assignor to C. J. Bates & Son, Chester, Conn., a Firm composed of Carlton J. Bates and Hamilton C. Bates. Filed Dec. 28, 1927. Serial No. 24,679. Term of patent 3½ years.



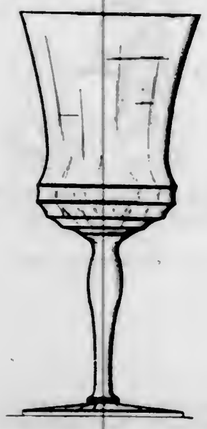
The ornamental design for a manicure implement as shown.

75,673. GOBLET OR SIMILAR ARTICLE. CHARLES C. BEAM, Cumberland, Md., assignor to The Potomac Glass Company, Cumberland, Md., a Corporation of Maryland. Filed Sept. 29, 1927. Serial No. 23,574. Term of patent 14 years.



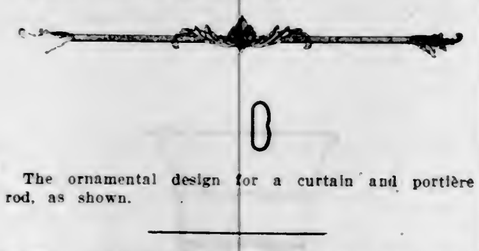
The ornamental design for a goblet or similar article as shown.

75,674. GOBLET OR SIMILAR ARTICLE. CHARLES C. BEAM, Cumberland, Md., assignor to The Potomac Glass Company, Cumberland, Md., a Corporation of Maryland. Filed Oct. 27, 1927. Serial No. 23,899. Term of patent 14 years.



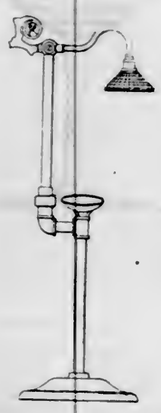
The ornamental design for a goblet or similar article as shown.

75,675. CURTAIN AND PORTIÈRE ROD. JAMES H. BOYE, Chicago, Ill. Filed Apr. 18, 1928. Serial No. 26,375. Term of patent 7 years.



The ornamental design for a curtain and portière rod, as shown.

75,676. COMBINATION FLOOR LAMP AND ASH TRAY. JOSEPH J. CAMYRE, Springfield, Mass. Filed Apr. 9, 1928. Serial No. 26,203. Term of patent 7 years.



The ornamental design for a combination floor lamp and ash tray, as shown.

75,677. BADGE OR SIMILAR ARTICLE. MILDRED CHAMBERLAIN, Chicago, Ill., assignor to American Home Economics Association, a Corporation of New York. Filed Jan. 13, 1928. Serial No. 24,853. Term of patent 14 years.



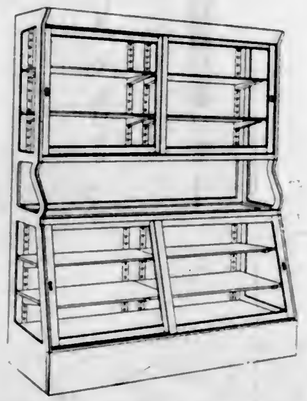
The ornamental design for a badge or similar article.

75,678. RADIATOR-CAP ORNAMENT. EDGAR W. FAUCHER and HENRY W. DILLS, Los Angeles, Calif. Filed July 1, 1926. Serial No. 18,224. Term of patent 3½ years.



The ornamental design for a radiator cap ornament, as shown.

75,679. DISPLAY CASE OR SIMILAR ARTICLE. WILLIAM A. FIFER, Quincy, Ill., assignor to Quincy Show Case Works, Quincy, Ill., a Corporation of Illinois. Filed May 13, 1927. Serial No. 21,967. Term of patent 14 years.



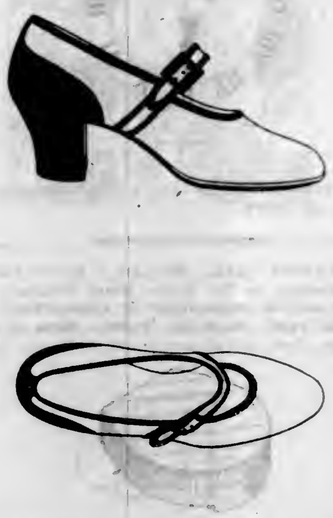
The ornamental design for a display case or similar article, as shown.

75,680. COMBINED RADIATOR-CAP ORNAMENT AND TRAFFIC SIGNAL. ROY FISHER, Los Angeles, Calif. Filed Feb. 10, 1928. Serial No. 25,355. Term of patent 7 years.



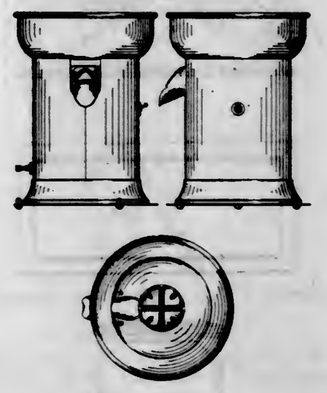
The ornamental design for a combined radiator cap ornament and traffic signal, substantially as shown.

75,681. SHOE. THOMAS J. FITZHARRIS, New Rochelle, N. Y., assignor to Franklin Simon & Co. Inc., New York, N. Y., a Corporation of New York. Filed Jan. 7, 1928. Serial No. 24,767. Term of patent 3½ years.



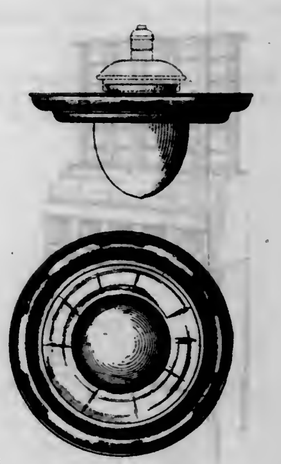
The ornamental design for a shoe, substantially as shown.

75,682. CASING FOR FRUIT-JUICE EXTRACTOR. ALFRED C. GILBERT, Hamden, Conn., assignor, by mesne assignments, to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Maryland. Filed Mar. 24, 1928. Serial No. 25,987. Term of patent 14 years.



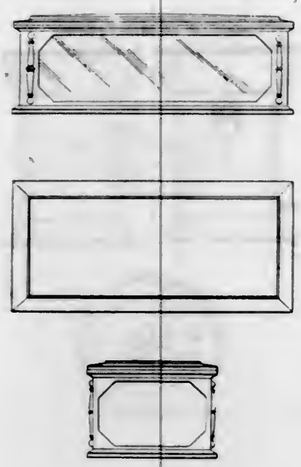
The ornamental design for a casing for fruit juice extractor substantially as shown.

75,683. LIGHT-DIFFUSING FIXTURE. EDWIN B. GILLINDER, Port Jervis, N. Y., assignor to Gillinder Brothers, Inc., Port Jervis, N. Y., a Corporation of New York. Filed Apr. 21, 1928. Serial No. 26,406. Term of patent 7 years.



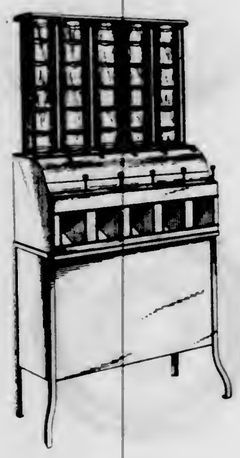
The ornamental design for a light diffusing fixture, as shown.

75,684. GRAVE-DECORATION CHEST. GEORGE S. GRAY, Capron, Okla. Filed Apr. 2, 1928. Serial No. 26,101. Term of patent 7 years.



The ornamental design for a grave decoration chest, as shown.

75,685. COMBINED VENDING AND DISPLAY CASE. WILLIAM O. HARRISON and GEORGE W. JOHNSON, Buffalo, N. Y. Filed Sept. 6, 1927. Serial No. 23,298. Term of patent 3½ years.



The ornamental design for a combined vending and display case as shown.

75,686. RUG OR SIMILAR ARTICLE. LOUIS S. HENDERSON, Philadelphia, Pa. Filed May 5, 1928. Serial No. 26,579. Term of patent 3½ years.



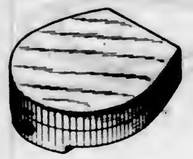
The ornamental design for a rug or similar article, as shown and described.

75,687. TIME INDICATOR. PATRICE H. HICKEY, Happy Camp, Calif. Filed Jan. 23, 1928. Serial No. 24,990. Term of patent 14 years.



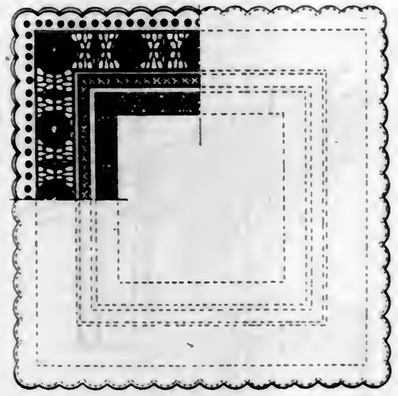
The ornamental design for a time indicator substantially as shown.

75,688. VANITY CASE. WILLIAM J. HINES, Hartford, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a Corporation of Connecticut. Filed Sept. 28, 1926. Serial No. 19,196. Term of patent 14 years.



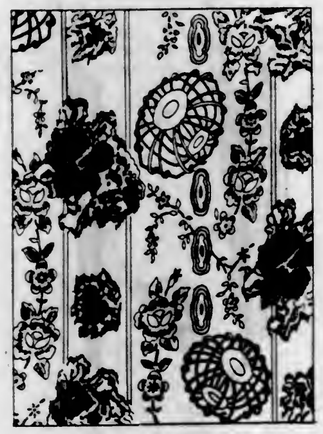
The ornamental design for a vanity case, as shown.

75,689. DOILY. EDWARD KARFIOL, Brooklyn, N. Y. Filed Feb. 8, 1928. Serial No. 25,258. Term of patent 14 years.



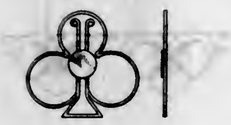
The ornamental design for a doily as shown and described.

75,690. TEXTILE FABRIC. ERNEST KIRCHHOFF, Great Kills, N. Y., assignor to Elias Reiss & Company, New York, N. Y., a Corporation of New York. Filed Oct. 26, 1927. Serial No. 23,892. Term of patent 3½ years.



The ornamental design for textile fabric, as shown.

75,691. PAPER CLIP OR SIMILAR ARTICLE. WALTER LAMPL, New York, N. Y. Filed Feb. 17, 1925. Serial No. 12,401. Term of patent 3½ years.



The ornamental design for a paper clip or similar article as shown.

75,692. CAP FOR ATOMIZERS. GUSTAVE M. MINTON, Jr., New York, N. Y. Filed Jan. 20, 1928. Serial No. 24,941. Term of patent 14 years.



The ornamental design for a cap for atomizers, as shown.

75,693. PERFUME ATOMIZER. GUSTAVE M. MINTON, Jr., New York, N. Y. Filed Feb. 8, 1928. Serial No. 25,260. Term of patent 7 years.



The ornamental design for a perfume atomizer as shown.

75,694. BELT CLASP. WILLARD A. ORMSBEE, Taunton, Mass. Filed Feb. 19, 1927. Serial No. 20,817. Term of patent 3½ years.





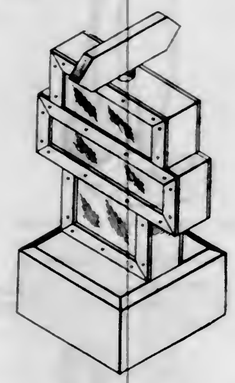
The ornamental design for a belt clasp, substantially as shown.

75,695. GLASS JAR. MARIO PERUZZI, Wilkes-Barre, Pa., assignor to Planters Nut & Chocolate Co., Wilkes-Barre, Pa. Filed Feb. 21, 1928. Serial No. 25,509. Term of patent 14 years.



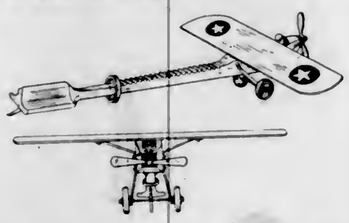
The ornamental design for a glass jar as shown.

75,696. ROAD SIGN. GUY L. PITT, Rocky Mount, N. C. Filed Jan. 21, 1928. Serial No. 24,965. Term of patent 14 years.



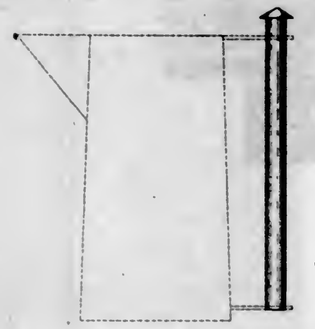
The ornamental design for a road sign, as shown.

75,697. AEROPLANE TOY. JACK JOSEPH RENIE, Los Angeles, Calif. Filed Oct. 3, 1927. Serial No. 23,612. Term of patent 3½ years.



The ornamental design for an aeroplane toy substantially as shown.

75,698. PITCHER OR LIKE ARTICLE. LOUIS W. RICE, New York, N. Y., assignor to Bernard Rice's Sons, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 23, 1928. Serial No. 25,979. Term of patent 7 years.



The ornamental design for a pitcher or like article, as shown and described.

75,699. FINIAL. JOHN B. SALTERINI, New York, N. Y. Filed Apr. 26, 1928. Serial No. 26,470. Term of patent 3½ years.



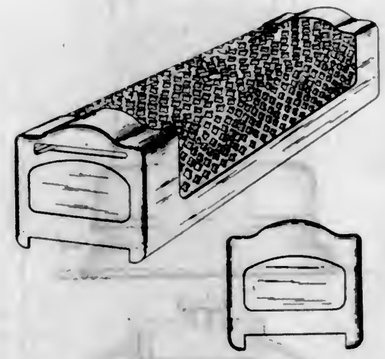
The ornamental design for a finial, as shown.

75,700. EMBROIDERED EDGING. HENRY SCHWARBER, Weehawken, N. J. Filed Apr. 28, 1928. Serial No. 26,494. Term of patent 3½ years.



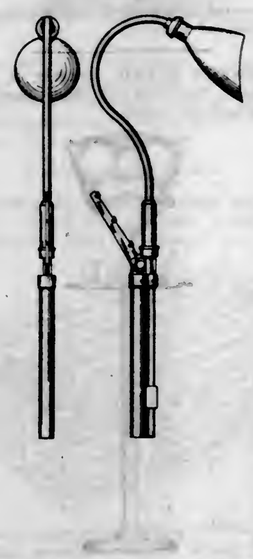
The ornamental design for embroidered edging, as shown.

75,701. HEATER FOR AUTOMOBILES. ALBERT SPILLMAN, North Tonawanda, N. Y. Filed Sept. 9, 1927. Serial No. 23,335. Term of patent 3½ years.



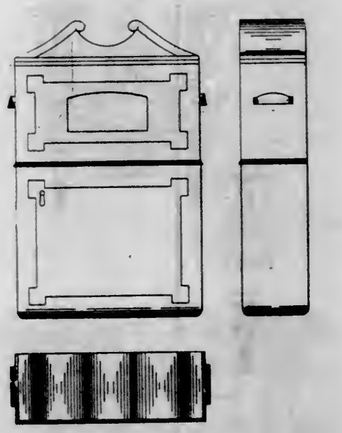
The ornamental design for a heater for automobiles as shown.

75,702. FENCE POST. OLIVER SMITH STYER and GRANT AUSTIN SNEDEKER, Bridgeport, Conn. Filed Jan. 29, 1925. Serial No. 12,193. Term of patent 14 years.



The ornamental design for a fence post, as shown.

75,703. COMBINED FLUSH TANK AND CABINET. BERT O. TILDEN, Trenton, N. J., assignor to B. O. T. Mfg. Co., Trenton, N. J., a Corporation of New Jersey. Filed May 4, 1928. Serial No. 26,563. Term of patent 14 years.



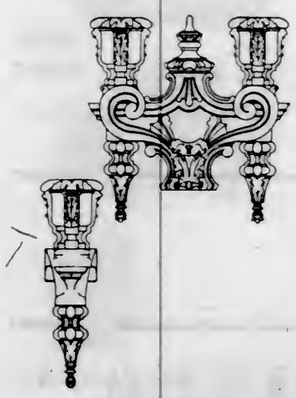
The ornamental design for combined flush-tank and cabinet, as shown.

75,704. CAPITAL FOR LAMP-POSTS. WESTERN UNDERWOOD, Los Angeles, Calif. Filed Mar. 27, 1928. Serial No. 26,019. Term of patent 7 years.



The ornamental design for a capital for lamp posts, as shown.

75,705. HEAD FOR LAMP-POSTS. WESTERN UNDERWOOD, Los Angeles, Calif. Filed Mar. 27, 1928. Serial No. 26,020. Term of patent 7 years.



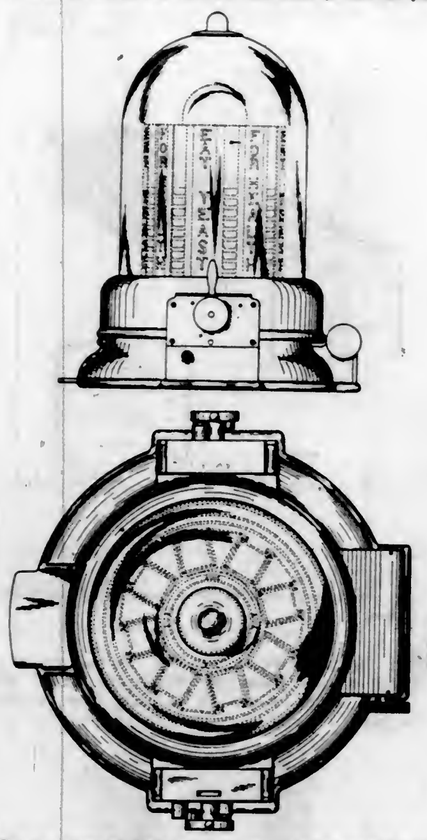
The ornamental design for a head for lamp posts, as shown.

75,706. STREET-LIGHT LANTERN. WESTERN UNDERWOOD, Los Angeles, Calif. Filed Mar. 27, 1928. Serial No. 26,022. Term of patent 7 years.



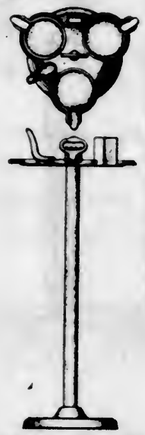
The ornamental design for a street light lantern, as shown.

75,707. COMBINATION VENDING AND DISPENSING CASE. GEORGE R. WEBBER, Augusta, Me. Filed Jan. 3, 1928. Serial No. 24,742. Term of patent 14 years.



The ornamental design for a combination vending and dispensing case, as shown.

75,708. SMOKER'S STAND. GUSTAV A. WENDT, Cincinnati, Ohio. Filed Sept. 16, 1926. Serial No. 19,085. Term of patent 3½ years.

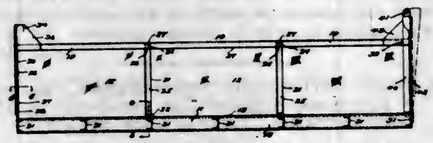


The ornamental design for a smoker's stand as shown.

PATENTS

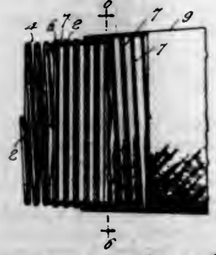
GRANTED JULY 3, 1928.

1,675,317. TRUCK-BODY CONSTRUCTION. ROBERT F. BURKE, Phoenixville, Pa., assignor to Heine Boiler Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 24, 1925. Serial No. 52,013. 3 Claims. (Cl. 296—28.)



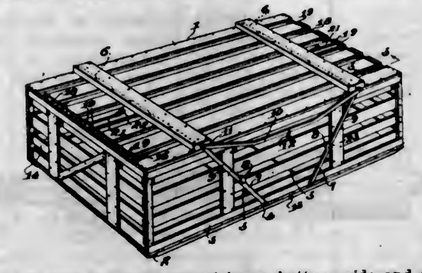
1. A truck body including sides having upright portions with lower outwardly bulged portions providing opposed channels; and a plate having opposite edge portions housed within said channels to provide a floor, portions of said plate, from the parts within said channels, being bent upward in front of the forward ends of said bulged portions and extending transversely thereof to provide a front for the body.

1,675,318. ACOUSTIC HORN. MAX ABRAHAMS, New York, N. Y. Filed Sept. 13, 1926. Serial No. 135,214. 4 Claims. (Cl. 181—27.)



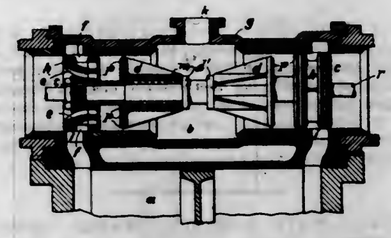
1. An acoustic horn comprising a flexible skeleton frame, a cloth covering said flexible skeleton frame, and an impregnated fabric covering for said first mentioned covering, said skeleton frame being capable of being coiled into the shape of a spiral.

1,675,319. FOLDING CRATE. JOHN MCGARY ALLEN, Mart, Tex. Filed Feb. 18, 1926, Serial No. 89,189. Renewed May 24, 1928. 3 Claims. (Cl. 217—47.)



3. A foldable crate comprising a bottom, side and end walls hingedly connected thereto, a top, foldable brace members connecting said bottom and top and adapted to retain the latter in opened or extended position, guard members each comprising a rod having their opposite ends connected to the opposite sides of said top and their medial portions depending thereupon, said guard members being adapted to extend over said bottom when the crate is in folded position to prevent lateral movement of the top and bottom with respect to one another, and means for detachably connecting said guard members to said bottom.

1,675,320. PISTON VALVE. EMIL ALLZEIT, Konigsberg, Germany. Filed Feb. 26, 1926, Serial No. 90,837, and in Germany May 24, 1924. 3 Claims. (Cl. 121—133.)

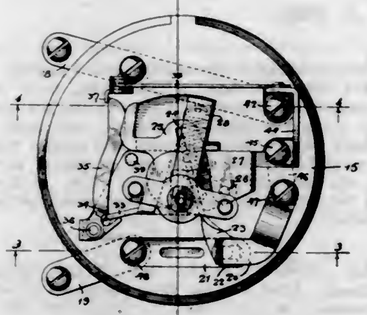


1. A piston valve for steam engines comprising in combination with a cylinder a valve casing having steam inlet and exhaust chambers therein and communicating with both sides of the cylinder, a double headed piston having two distinct sets of steam passages formed therein and reciprocating in said valve casing; one set of said passages for admitting steam from the steam inlet chamber into the cylinder, the second for equalizing the difference between the pressure in the exhaust chambers and the pressure in the steam inlet chamber when the pressure in the latter sinks below a predetermined minimum, said two sets of steam passages adapted to permanently maintain the communication between the exhaust chambers, the inlet chamber and both sides of the cylinder when the steam is shut off, and independent means, for each piston head, serving for closing the passages in the piston heads when the pressure in the steam inlet chamber surpasses a predetermined maximum.

1,675,321. SECONDARY OR STORAGE BATTERY. CORNELIUS AMBRUSTER, Roslyn, Pa. Filed Nov. 23, 1925. Serial No. 70,766. 3 Claims. (Cl. 136—80.)

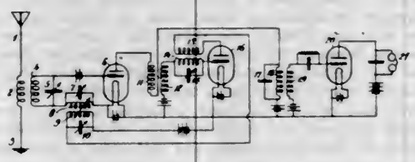
1. In a storage battery the combination of a jar, plates having lugs arranged in spaced relation and resting on the tops of one pair of the opposed walls of the jar, a pair of combs of insulating material having their backs of concave form and arranged to bridge the other pair of the opposed walls of the jar and having their teeth arranged between plate lugs to fill the spaces between the lugs and to separate the lugs, and a pair of glass plates covering the top of the jar and bridging the backs of the combs and held in inwardly sloping relation by the concave form of the backs of the combs.

1,675,322. CIRCUIT BREAKER. CARL ERIC ANDERSON, Stratford, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed July 17, 1925. Serial No. 44,302. 7 Claims. (Cl. 200—116.)



1. A circuit breaker mechanism including a movable member, a spring stressing same constantly to open-circuit position, a swinging support for said movable member, and a warping thermostatic element operatively engaged under tension by said support when the parts are in normal position, but automatically releasing the support on overload to permit its displacement by the movable member under the stress of said spring.

1,675,323. WAVE SIGNALING SYSTEM. EDWIN H. ARMSTRONG, Yonkers, N. Y., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 10, 1923. Serial No. 638,144. 8 Claims. (Cl. 250—20.)



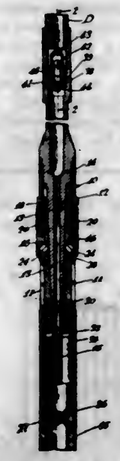
1. A wave-signaling system comprising an antenna, a heterodyne system, a high frequency amplifier-repeater associated with said heterodyne and interposed between the antenna and the heterodyne, said amplifier-repeater comprising an electron discharge device having a cathode, an anode, and a control electrode and input and output circuits associated therewith, means including said repeater for amplifying the incoming signal wave energy, means including the heterodyne for generating local oscillations, and means for combining the incoming energy with the local oscillations and for converting the combined oscillations to produce oscillations of an intermediate frequency, a circuit connection, associated in parallel relation with the input circuit of said repeater-amplifier for impressing intermediate frequency oscillations on the repeater, means including said repeater for amplifying said intermediate frequency oscillations so impressed, means for causing said amplified intermediate frequency oscillations to react on said heterodyne whereby an increase in the efficiency of conversion is obtained, and means for detecting and indicating said amplified intermediate frequency oscillations.

1,675,324. BRACELET HOOK. CARL AUGENSTEIN, Cranston, R. I., assignor to Automatic Gold Chain Company, a Firm comprising Edwin F. M. Speidel and Albert R. Speidel, Edgewood, R. I. Filed Dec. 10, 1926. Serial No. 153,973. 7 Claims. (Cl. 24—239.)



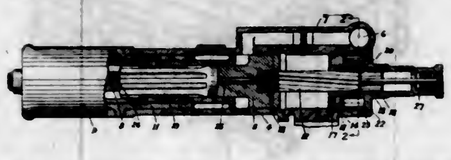
1. An extensible bracelet hook comprising a casing member, a hook member having a shank portion slidable in said casing and having a hook portion extending a substantial distance beyond the casing, a hook-closing tongue carried by the hook member and locked closed when the members are relatively contracted and released when said members are in extended position.

1,675,325. HYDRAULIC UNDERREAMER. BENJAMIN F. BLANCHARD, Fullerton, Calif. Filed Jan. 28, 1926. Serial No. 84,342. 7 Claims. (Cl. 255—75.)



1. An underreamer comprising a slotted body presenting an interior cylindrical surface, a conical wedge having a bore therethrough disposed in said body, blocks carrying cutters slidable in said slots having their inner sides engageable upon the wedge, said blocks having lateral wings extending laterally beyond the sides of the slots between the wedge and the body, a piston disposed within the body below said blocks, and means for causing fluid discharged through said wedge to build up a pressure beneath said piston, causing it to lift said blocks into engagement with said wedge, so that they will be expanded thereby.

1,675,326. HAMMER DRILL. FORREST H. BLANDING, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 9, 1923. Serial No. 673,665. 2 Claims. (Cl. 121—6.)



1. In a percussive drill, a cylinder forming a piston chamber, a substantially solid piston reciprocable therein for striking upon and for transmitting rotation to a

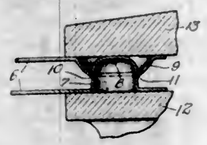
working tool, a rifle bar rigidly but detachably secured to said piston, a back head secured to said cylinder and having an axial cavity into which said rifle bar extends, a rifle nut received and rotatably supported in a counterbore in the outer end of said cavity for cooperation with said bar, an intermediate aligning member between said back head and cylinder forming a bearing for said nut, a pawl carrier detachably secured to said nut, and a ratchet ring on said back head engaged by the pawls of said carrier whereby said nut is held against rotation in one direction to force the combined piston and rifle bar to rotate during movement of the latter in one direction.

1,675,327. SEAL. BRUCE BORLAND, Chicago, Ill. Filed Dec. 21, 1925. Serial No. 76,699. 1 Claim. (Cl. 292—315.)



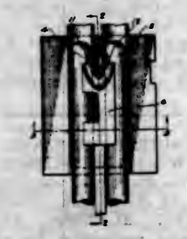
A seal comprising a strip of metal having an integrally formed button adjacent to one end, and a hole adjacent to the other end and having a notch at the base of the stud on the side of the stud toward the hole.

1,675,328. SEAL. BRUCE BORLAND, Chicago, Ill. Filed Mar. 17, 1927. Serial No. 176,030. 3 Claims. (Cl. 292—314.)



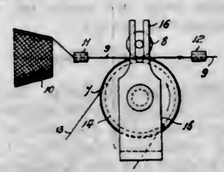
1. A seal of the character set forth, comprising a thin strip of metal having an integrally formed projection adjacent to one end thereof, said projection being approximately cylindrical with a rounded end, said seal also having an integrally formed protuberance adjacent to the opposite end, with a hole therethrough, said protuberance extending toward the projection when in engaging position, the height of the protuberance being approximately equal to the height of the rounded end of the projection.

1,675,329. APPARATUS FOR JOINING PIPES. BENJAMIN N. BROIDO, New York, N. Y., assignor to The Superheater Company, New York, N. Y. Filed June 21, 1926. Serial No. 117,471. 4 Claims. (Cl. 78—83.)



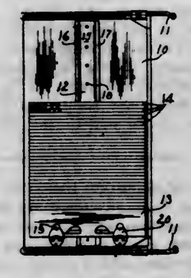
1. Apparatus for making pipe structures of the kind described, comprising two parallel cylindrical bars extending into and remaining stationary in the pipes during the process, and a reciprocating male die having grooves slidingly engaging said bars during the process.

1,675,330. MEANS FOR TENSIONING YARNS OR THE LIKE IN LOOMS, WINDING, DOUBLING, AND OTHER TEXTILE MACHINES. HUGH LINLEY BYRD, Stockport, England, assignor to Drey, Simpson & Company, Limited, South Reddish, near Stockport, England. Filed Mar. 31, 1927, Serial No. 179,917, and in Great Britain Apr. 6, 1926. 3 Claims. (Cl. 242—151.)



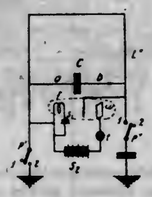
1. The improved means for tensioning yarns in looms, winding, doubling and other textile machines, comprising a roller and a pressure member or members between which the yarn passes and is lightly gripped, said roller being positively driven in a direction opposite to the travel of the yarn so that it tends to travel the yarn backwards, and so travels the yarn when slack occurs therein, substantially as set forth.

1,675,331. INDEX OR FILE. WILLIAM H. DAY, East Haven, Conn., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Nov. 19, 1924. Serial No. 750,791. 16 Claims. (Cl. 129—16.)



1. In an index or file, an index card having a pair of tongues projecting inwardly from a marginal portion thereof, each of said tongues having a transversely directed tab portion, substantially in parallelism with said marginal portion, the portion of said card being removed below said tab whereby said tab is spaced from said margin.

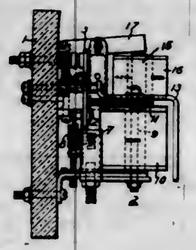
1,675,332. DIRECTION FINDER. HENRI JEAN JOSEPH MARIE DE REGNAULD DE BELLESCIZE, Toulon, France. Filed Aug. 29, 1921, Serial No. 496,537, and in France May 11, 1920. 4 Claims. (Cl. 250—11.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



3. In the method of ascertaining the direction of a transmitting station from a receiving station with a loop antenna functioning at one time as a directional antenna and at another time as a combined directional and non-

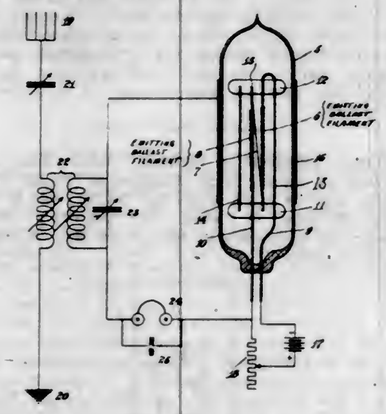
directional antenna, the steps which comprise, electrically balancing the loop antenna and setting the same as a directional antenna to the point of minimum signal reception, then electrically unbalancing said loop antenna and setting the same as a combined directional and non-directional antenna to the point of minimum signal reception, and determining from the direction of digression between these two points the sense of direction of the transmitting station.

1,675,333. CONTROL MECHANISM. RAY E. DE CAMP, Glendale, Calif., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Original application filed Nov. 11, 1919, Serial No. 337,175. Divided and this application filed Aug. 25, 1923. Serial No. 659,265. 5 Claims. (Cl. 200—98.)



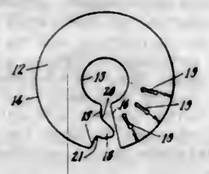
1. The combination with a plurality of movable members and separate means for biasing said members to certain positions, of an electromagnet coacting directly with said members for opposing said biasing means, a second electromagnet having a member coacting with said movable members and actuated by said second electromagnet, and means for biasing said coacting member in such direction as to oppose the first biasing means.

1,675,334. ELECTRON DEVICE. HAROLD POTTER DONLE, Meriden, Conn., assignor, by mesne assignments, to Radio Corporation of America, a Corporation of Delaware. Filed June 9, 1922. Serial No. 566,969. 8 Claims. (Cl. 250—27.5.)



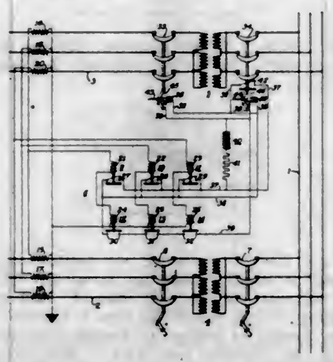
1. An electron device construction comprising an evacuated tube, a heating filament within the tube comprising two portions connected in series but arranged alongside of each other, one portion being straight and the other being in the form of a coil and operating at a lower temperature than the straight portion and constituting a ballasting member, an anode and a third electrode.

1,675,335. GOLF TEE. CARL B. DREVITSON, Somerville, Mass. Filed Apr. 28, 1926. Serial No. 105,145. 2 Claims. (Cl. 273—33.)



1. As an article of manufacture, a golf tee blank comprising a strip of sheet material adapted to be bent to effect overlapping of its ends to provide a hollow frustum-shaped body and having means for interengaging the overlapping ends at any of a plurality of points whereby the blank will produce any of a plurality of tees of different heights, the vertical distance between the lower and top edges of each said tee being definitely and accurately predetermined.

1,675,336. RELAY SYSTEM. WARREN O. EDMONDS, Kansas City, Mo., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 1, 1924. Serial No. 690,017. 3 Claims. (Cl. 171—97.)



1. The combination with a plurality of polyphase supply circuits, a polyphase distribution circuit, and a plurality of electrical translating devices adapted to be connected therebetween, of an underload and an overload relay for each phase of the circuits, the various relays being so connected with respect to each other and with respect to the supply circuits and the distribution circuit as to effect disconnection of certain of the translating devices from the supply circuits and the distribution circuit when the total load connected to each phase of the distribution circuit is below a predetermined value, and connection of certain of the translating devices to the supply circuit and the distribution circuit when the total load connected to any phase of the distribution circuit is above a predetermined value.

1,675,337. WINDSHIELD CLEANER. FREDERICK G. FOLBERTH and WILLIAM M. FOLBERTH, Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y., a Corporation of New York. Filed Oct. 31, 1923. Serial No. 671,937. 21 Claims. (Cl. 121—164.)

1. Valve actuating mechanism for windshield cleaner motors comprising a pivotally mounted plate, means having a play connection with said plate controlled by the movement of the piston of the motor to oscillate said plate, an arm pivotally connected to said plate, a pivotally mounted valve supporting member connected to said arm, a valve supported thereby, and a spring arranged on said arm and engaging said member, said



spring being compressed when said plate and said arm are oscillated to move said valve supporting member and shift said valve.

1,675,338. WINDSHIELD CLEANER. FREDERICK G. FOLBERTH and WILLIAM M. FOLBERTH, Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y., a Corporation of New York. Filed Oct. 17, 1924. Serial No. 744,269. 20 Claims. (Cl. 121—164.)



1 A snap over valve mechanism for fluid motors comprising a valve, a carrier therefor, a spring connected at one end to said valve carrier and adapted to store up energy to effect a movement of the valve at the end of each stroke, and a system of levers connected to the opposite end of the spring for being actuated by a movable part of the motor to actuate said spring, and having a greater leverage during its initial movement when energy is being stored in said spring and a shorter, quicker-acting leverage during the later movement just before said spring effects a movement of the valve.

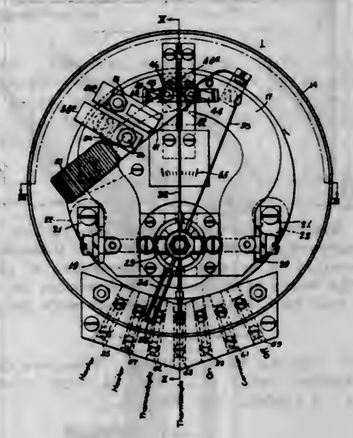
1,675,339. TRAFFIC-CONTROL SYSTEM. CHARLES B. FOLEY, Fort Wayne, Ind. Filed Sept. 1, 1927. Serial No. 216,839. 12 Claims. (Cl. 238—3.)



1. In a yielding barrier system for railway and highway grade crossings and intersections, the combination, with a paved highway of general uniform width, and an intersecting thoroughfare, of a narrow, yielding barrier set in the center of the highway at a suitable distance from the said point of intersection, means for inducing vehicles traveling toward said intersection to adopt a slightly tortuous course when approaching and passing said barrier, and a laterally extending strip of pavement continued along and beyond said barrier sufficient in area to maintain an effective half width of pavement surface opposite and beyond said barrier at least equal to the normal half width of said pavement at points more remote from said intersection.

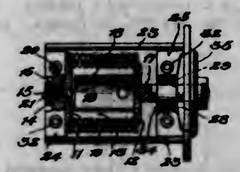
1,675,340. THERMAL REGULATOR. HARLAN S. GANO, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1924. Serial No. 686,690. 7 Claims. (Cl. 200—56.)

1. In an indicating instrument, a scale, a pointer for co-operation therewith, a tensioning device controlled by said pointer, a second pointer attached directly to said tensioning device, electrically controlled means for actuating the second pointer in accordance with an external condition and in opposition to the bias of said tensioning device, and means for manually actuating said first pointer to calibrate the instrument.



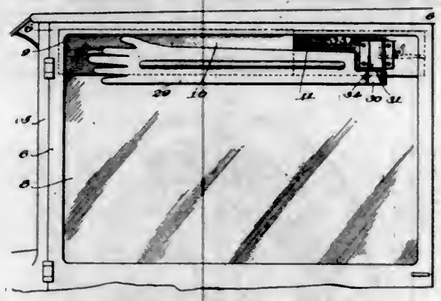
7. In an indicating instrument, in combination, a scale, a pointer for cooperation therewith, a tensioning device controlled by said pointer, a plurality of stationary contact members for a plurality of incomplete circuits, a second pointer mounted on said tensioning device and having a contact member mounted thereon, means for actuating the second pointer in accordance with an external condition and in opposition to the bias of said tensioning device, means for causing the contact member on the second pointer to periodically selectively engage said stationary contact members to permit an energizing current to traverse said pointer, contact member and a stationary contact member of one of said circuits, and means for manually operating said first pointer to calibrate the instrument.

1,675,341. THERMOSTATICALLY-CONTROLLED VALVE UNIT. JEAN V. GIESLER, Knoxville, Tenn., assignor, by mesne assignments, to The Fulton Syphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed Jan. 6, 1927. Serial No. 159,449. 32 Claims. (Cl. 236—34.)



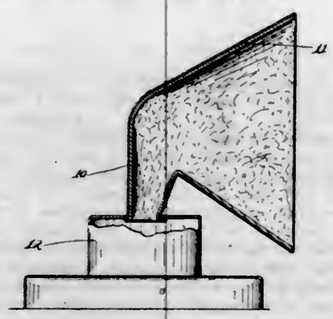
1. In a thermostatically operated valve unit, in combination with a thermostat, a thermostat support having a valve seat formed integrally therewith and being composed of sections partible on a plane extending longitudinally of said thermostat.

1,675,342. DIRECTION-INDICATING SIGNAL. HERMAN GOLDBERG, Washington, D. C. Filed Mar. 27, 1928. Serial No. 265,167. 12 Claims. (Cl. 116—52.)



1. A direction indicating signal for vehicles including a supporting member constructed of U-shaped sheet metal adapted to be seated in the groove of the sash frame and means in the ends of said member for spreading the ends into clamping engagement with the groove.

1,675,343. SOUND REPRODUCER. THADDEUS GRAHAM, Los Angeles, Calif. Filed Jan. 19, 1926. Serial No. 82,221. 3 Claims. (Cl. 181—27.)



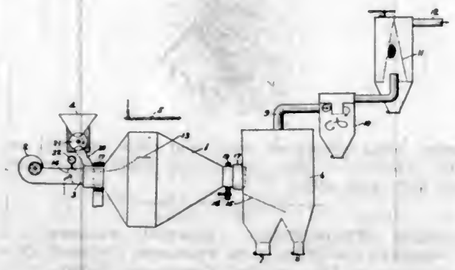
2. A sound reproducer comprising in combination a horn-like body of comparatively stiff material, said body being lined with leather, the flesh side of the leather being exposed on the interior of the horn so as to present a rough, soft, fleecy surface, whereby vibrations issuing from the source of disturbance will be partially absorbed on said surface, causing the sound reproduced to be clear in quality.

1,675,344. CARBURETOR. WILLIAM S. GUTHRIE, Terrell, Tex., assignor to Marvel Carburetor Company, Flint, Mich., a Corporation of Indiana. Filed Apr. 3, 1919. Serial No. 287,277. 3 Claims. (Cl. 261—67.)



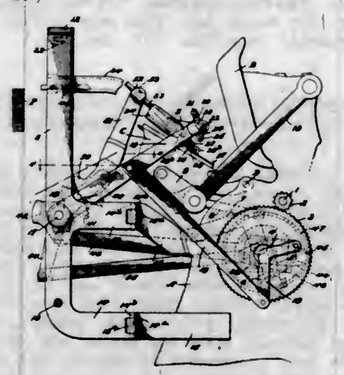
2 A carburetor having a body provided with a mixing chamber having means for supplying air thereto, a fuel reservoir, a fuel passage extending from said reservoir to said mixing chamber and an adjustable member arranged at the point of supply controlling the supply of fuel to said fuel passage, said adjustable member being provided with a fuel passage, a valve for controlling the last mentioned fuel passage, said valve having a passage communicating with the main fuel passage.

1,675,345. APPARATUS FOR MAKING LEADEN POWDER. CLARENCE A. HALL, Philadelphia, Pa. Filed Mar. 29, 1924, Serial No. 702,890. Renewed Dec. 2, 1927. 1 Claim. (Cl. 23—284.)



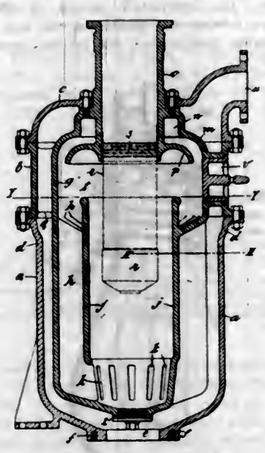
Apparatus for making leaden powder comprising in combination a hollow drum of the general form of reversely disposed conic frustums and having a closed curved wall and being revoluble about a substantially horizontal axis, means for rotating the drum, an enclosed feeder at the inlet end of the drum and in communication with the interior of the drum, an enclosed delivery hopper at the outlet end of the drum and in communication with the interior of the drum, controlled means for spraying cooling fluid onto the exterior of the drum, and controlled air connections for passing a stream of air axially through the drum, said cooling fluid means and said air connections being independently operatable for dissipating the excess of evolved heat over the limited degree of heat appropriate for the success of the chemical reaction between the air and lead.

1,675,346. TRANSFER MECHANISM. WALTER O. HALL, Franklin, Mass., assignor, by direct and mesne assignments, to American Type Founders Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 26, 1923. Serial No. 621,438. 23 Claims. (Cl. 101—287.)



1. In combination with a printing press of the oscillating type, sheet feeding mechanism comprising a plurality of pairs of sheet gripping fingers mounted for reciprocation in planes intersecting the platen, means actuated by the operating shaft of the press for reciprocating said fingers from points adjacent a pile of sheets to points adjacent the lower edge of the platen when the latter is in substantially open position, and returning said fingers before the platen closes, and automatic means for opening said gripper fingers when they approach the limit of their movement towards the platen and for closing said fingers when they approach the opposite limit of their movement.

1,675,347. APPARATUS FOR BOILING OR RAISING THE TEMPERATURE OF WATER AND OTHER LIQUIDS. CECIL FEATHERSTONE HAMMOND and WILLIAM SHACKLETON, London, England. Filed Sept. 4, 1926, Serial No. 133,682, and in Great Britain Sept. 5, 1925. 9 Claims. (Cl. 122—32.)



1. Heat apparatus comprising in combination, a heating chamber adapted to contain a mass having a liquid condition at elevated temperatures, a submersible burner projected into said chamber for maintaining combustion while submerged in the liquid mass, and for causing circulation of said mass, means to direct the course of the latter, and a fluid container in heat exchange relation with said heating chamber.

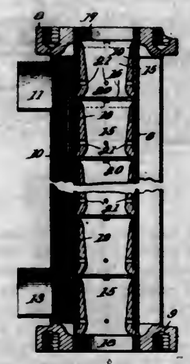
4. Heat apparatus comprising in combination, a heating chamber adapted to contain a mass having a liquid condition at elevated temperatures, a burner projected into said chamber for maintaining combustion while submerged in said mass, a tube surrounding the submerged portion of said burner and communicating freely with upper and lower portions of the liquid mass and disposed so that the gases of combustion from said burner are released into the column of liquid contained in said tube, an escape flue for said gases at the head of said chamber, deflector means in the path of said gases from said liquid to said flue, and a fluid container in heat exchange relation with said heating chamber.

1,675,348. FOOT AND ANKLE PROTECTING MEANS. WILLIAM JOHN HARVEY, New York, N. Y. Filed Jan. 14, 1927. Serial No. 161,046. 3 Claims. (Cl. 36—2.)



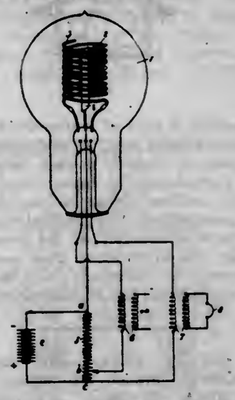
1. In combination, an ankle protector made of comparatively thin rubber, comprising a main body open vertically at one side, the meeting margins of said opening having cooperating fastener devices, an additional fastener device at the opposite side of said main body, the forward end of said main body having integral therewith a bottom strap loop to extend beneath the foot of the wearer, and a separable sandal member having rearwardly projecting attachment tongues at each side thereof provided in their extremities with fastener means for separable engagement with fastener devices at opposite sides of said main body.

1,675,349. INTAKE MANIFOLD FOR INTERNAL-COMBUSTION ENGINES. WALTER G. HEGINBOTTOM and JACOB RICHARD FRANCIS, Flint, Mich. Filed Nov. 25, 1921. Serial No. 517,555. 10 Claims. (Cl. 48—180.)



2. An intake manifold for internal combustion engines having a straight passageway provided with a series of restrictions for successively increasing and decreasing the flow velocity of the explosive charge in its passage therethrough and means for collecting the heavier particles at the point of decreased flow velocity and vaporizing said particles and returning them to the volume at the point of greatest flow velocity.

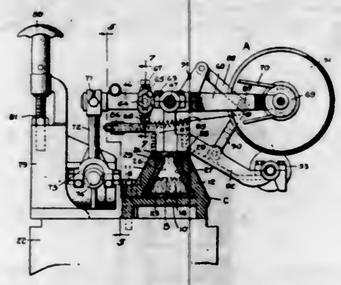
1,675,350. ELECTRIC GAS-FILLED GLOW-DISCHARGE DEVICE. GILLES HOLST, EKKO OOSTERHUIS, and JOHANNES BRUIJNES, Eindhoven, Netherlands, assignors to Naamlooze Vennootschap Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Filed Feb. 3, 1922. Serial No. 533,998, and in the Netherlands Feb. 9, 1921. 5 Claims. (Cl. 250—27.5.)



1. An electric gas-filled glow discharge device comprising in combination a cathode, an anode consisting of a wire wound in the form of a coil, a controlling elec-

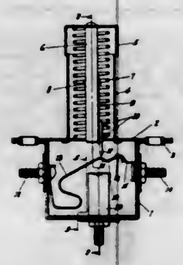
trode, also wound in the form of a coil, said coils having substantially the same diameter and being coaxially disposed with their respective windings in close proximity to each other, the composition and pressure of said gas filling being of such nature and value that a luminous glow discharge, occurs from the cathode only.

1,675,351. CUT-OFF MECHANISM FOR CIGARETTE MACHINES. JAMES MONROE HORNADAY, Richmond, Va. Filed Feb. 6, 1925. Serial No. 7,212. 16 Claims. (Cl. 131—37.)



1. In a cigarette machine, a slide support comprising a housing having a plurality of closed sides and an open side, end walls closing said housing, a slide having a portion closely fitting within said housing, said portion having walls substantially conforming to the walls of said housing section, and also having a portion forming a closure for said open side of the housing section, said closure being adapted to maintain said section closed in any position of the slide, and cigarette cut-off mechanism mounted on said slide.

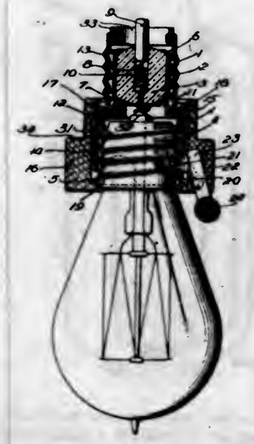
1,675,352. SWITCH. HAROLD LAISTER JOYCE, East Orange, N. J., assignor, by mesne assignments, to Splitdorf Electrical Company, Newark, N. J. Filed Nov. 5, 1925, Serial No. 67,016. Renewed Dec. 27, 1927. 19 Claims. (Cl. 200—159.)



19. In a switch, a pair of stationary contacts, holding means associated with one of said contacts, a switch contact member, a plunger, a push member carried by the plunger and adapted to engage one of said contacts to disable the holding means on one downward movement of the plunger and cause the transfer of the switch member to the other contact on the return of the plunger and means for causing the push member to engage the switch member at a different point on the next movement of the plunger for the purpose described.

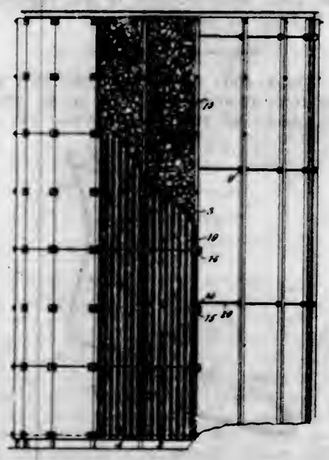
1,675,353. SAFETY PLUG AND LAMP SOCKET. LOUIS KELLNER, Chicago, Ill. Filed May 16, 1925. Serial No. 30,824. 5 Claims. (Cl. 173—356.)

3. In a plug connector of the class set forth, a freely rotatable outer sleeve formed with a keyway extending longitudinally inward from the outer end of the sleeve, said keyway being formed with a restricted mouth and opening laterally into the interior of the sleeve at a point spaced inward from said mouth; and a removable key formed with an insulation handle, a shank, and a spring-projected locking member normally expanded laterally outward from said shank and adapted to be compressed inward, the restricted mouth of the keyway being formed to receive the shank of the key only with the locking member compressed, the lateral opening of the



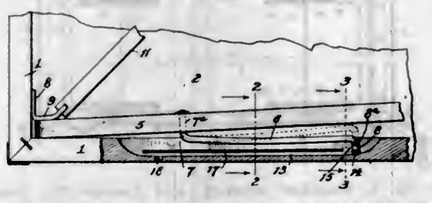
keyway being formed to permit the locking member to expand into the sleeve to effect a locking connection with parts of the connector plug within the sleeve when the key is fully inserted, and the locking member being formed with outwardly converging cam edges adapted respectively to engage the inner and outer edges of the restricted portion of the keyway and cause the member to be compressed thereby to pass through the restricted portion when the key is moved longitudinally in either direction.

1,675,354. OIL-TANK INSULATION. RAY T. KEMPER, Los Angeles, Calif., assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 6, 1925. Serial No. 13,497. 2 Claims. (Cl. 220—10.)



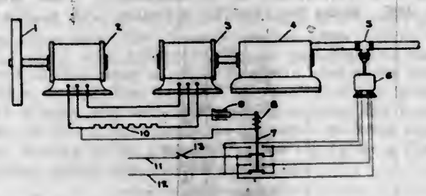
1. In a tank protecting structure, a series of supporting members, each parallel to the axis of the tank, arranged in spaced relation about the periphery of the tank, and means for holding said supporting members in position, comprising tension means extending circumferentially of said tank and operatively connected to said supporting members at points nearer the axis of the tank than the outer limits of said members, and sheathing sheets secured to said supporting members outside said tension means.

1,675,355. FOLDING TABLE. WILLIAM J. KING, Portland, Me., assignor to The E. T. Burrowes Company, Portland, Me., a Corporation of Maine. Filed Feb. 12, 1925. Serial No. 8,766. 5 Claims. (Cl. 45—11.)



1. In a folding table, a top supporting frame, a leg pivoted to the frame to fold within the same, said frame having a guide provided with a longitudinal groove extending inwardly from one side face thereof, and an inner longitudinal retaining channel extending at an angle to and adjoining said groove, and a transversely resilient brace rod having a pivotal connection at one end with the leg, and having at its other end a lateral extension provided with a retaining offset end part, said lateral extension and offset end part slidably engaging respectively in the said groove and channel, and the guide having an opening leading laterally from the outer side of the guide to said retaining channel providing for disengagement of the lateral extension and offset end part from the groove and channel, said opening being arranged so that said offset end part of the brace may be brought opposite the opening in the pivotal movement of the leg.

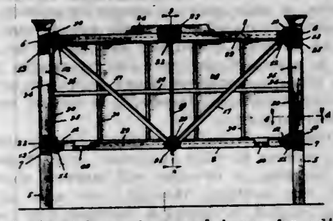
1,675,356. MOTOR-CONTROL SYSTEM. THOMAS P. KIRKPATRICK, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 4, 1922. Serial No. 592,248. 5 Claims. (Cl. 290—1.)



1. In a system of acceleration for fly-wheels, the combination with a fly-wheel and a driving motor therefor, of a variable speed alternating-current generator for supplying power to the motor, means for controlling the generator to supply a high accelerating current to said motor at low generator speed and automatically operable means for controlling the generator to supply a lower current to said motor at a higher speed.

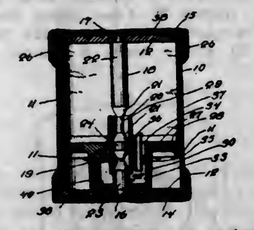
1,675,357. ADVERTISING SIGN. BARTLEY H. KOLLMAN and ELMER R. PHILLIPS, Indianapolis, Ind. Filed Mar. 28, 1927. Serial No. 178,883. 5 Claims. (Cl. 40—125.)

1. In an advertising sign, a frame comprising vertical members and grooved horizontal members connected to said vertical members, a panel insertible in and removable from the grooved horizontal members, a brace connected to the horizontal members, and a rod connected



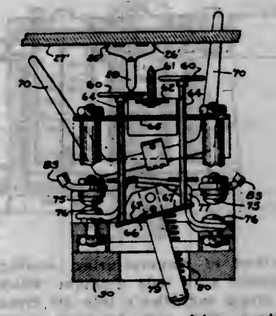
to the horizontal members and brace for adjusting the frame to prevent distortion thereof.

1,675,358. SOUNDING DEVICE FOR DOLLS AND OTHER TOYS. ALEXANDER KONOFF, New York, N. Y., assignor to Voices Incorporated, Wilmington, Del., a Corporation of Delaware. Original application filed June 22, 1922, Serial No. 570,209. Divided and this application filed Oct. 29, 1924. Serial No. 746,672. 4 Claims. (Cl. 46—46.)



1. In a sound producing device, a casing, sound producing means enclosed within said casing including a flexible bellows wall having one end edge thereof turned outwardly around one end of the casing walls, closures for the opposite ends of said casing each having an annular flange to extend around the casing wall, and the flange of one of said closures having clamping engagement with said outwardly turned end edge of the casing wall, said casing wall having openings therethrough for the emission of sound, a sheet of fabric material externally covering said casing wall and the sound emission apertures and extending at its ends upon the flanges of said closure members, and a sealing material completely enveloping each of the closure members and extending inwardly upon said fabric material beyond said flanges.

1,675,359. REGULATING APPARATUS. GREGORY W. KUNTNEY, Waterbury, and CARLTON W. BRISTOL, Naugatuck, Conn., assignors to The Bristol Company, Waterbury, Conn., a Corporation of Connecticut. Filed Aug. 12, 1926. Serial No. 128,890. 12 Claims. (Cl. 200—56.)

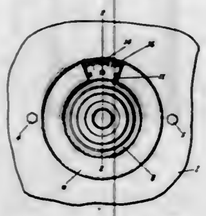


1. Regulating apparatus, comprising contact making mechanism including a two-arm and movable electrical switch and two contacts therefor, one arm of the switch

being adapted to engage a corresponding contact when the other is disengaged from its corresponding contact and vice versa; a scale plate; a measuring pointer movable thereover, associated with said switch and controlled by an external condition; and means to move periodically in a straight line said contact making mechanism as a whole and into proximity with said measuring pointer for engagement therewith to actuate thereby the said electrical switch.

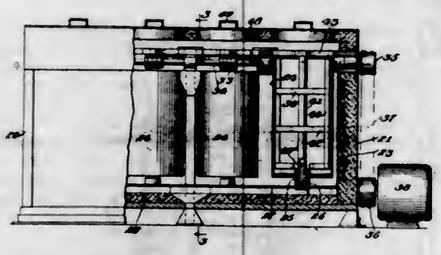
7. Regulating apparatus, comprising a scale plate and a measuring pointer movable thereover; contact making mechanism including a two-arm and movable electrical switch and two contacts therefor, one arm of the switch being adapted to engage a corresponding contact when the other arm is disengaged from its corresponding contact, and vice versa, a rocking member adapted to actuate the electrical switch, and a pair of movable anvil members adapted to be engaged alternately by the measuring pointer and in turn engaging the said rocking member when either anvil is depressed by engagement with the said measuring pointer.

1,675,360. INDICATING MEANS FOR RADIO APPARATUS. GEORGE L. LANG, South Orange, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed May 19, 1925. Serial No. 31,466. 3 Claims. (Cl. 40—70.)



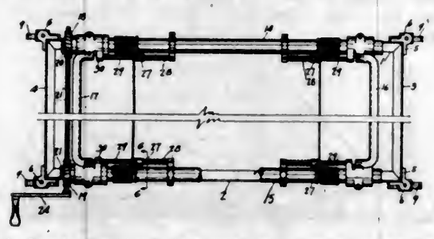
2. Indicating means for radio apparatus comprising; a mounting panel having a portion offset from the plane of said panel, said offset portion having an opening therein, a holder attached to the back of the panel and having an opening registering with the opening in the panel, and an indicating finger, a transparent member carried by said holder and a dial movably mounted on the back of the panel adjacent said transparent member and having indicia adapted to pass by said opening and said indicating finger.

1,675,361. SODA-FOUNTAIN ICE-CREAM MACHINE AND PROCESS OF MANUFACTURING AND DISPENSING ICE CREAM. MILTON R. LAYMAN, Johnstown, Pa. Filed May 1, 1926. Serial No. 106,114. 11 Claims. (Cl. 62—174.)



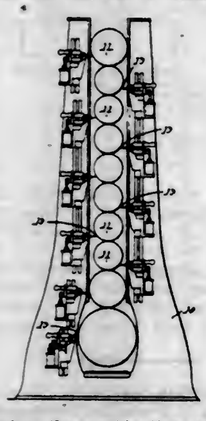
1. The method of manufacturing, storing, and dispensing ice cream at a soda fountain, which comprises freezing ice cream ingredients into ice cream in receptacles positioned at a soda fountain, cooling said ingredients during the freezing by the cooling means of said soda fountain, allowing the resultant ice cream to remain within said receptacles until required for dispensing, and dispensing the ice cream from said receptacles without moving said receptacles.

1,675,362. COMBINED TRANSPORTING AND LOWERING BURIAL APPARATUS. HARRY A. LEDYARD and JAMES J. JELLEY, Ashland, Ohio; said Jelley assignor to said Ledyard. Filed Nov. 11, 1925. Serial No. 68,431. 2 Claims. (Cl. 254—136.)



1. In a combined lowering and transporting truck for burial purposes, comprising in combination, a rectangular frame composed of angle iron members, and adapted to provide means for winding the cable around the tubular members and to maintain the same diameter of the cable when lowering or raising a vault or the like from the grave, swivel wheel supporting members journaled on said rectangular frame and adapted to be moved and held parallel with the side members of the frame and also at right angles thereto, standards mounted upon and secured adjacent to the corners of said frame and also being provided with bearings, braces secured to the bearings provided on the standards, tubular members journaled in said bearings, worm gears mounted upon and rigidly secured to said tubular members, brackets having bearings secured to the front standards, a shaft journaled in said bracket bearings, worms mounted on said shaft to mesh with said worm gears, the shaft and bracket mechanism when actuated being adapted to turn the tubular members in different directions as described and for the purpose set forth.

1,675,363. CONTROLLING MEANS FOR CALENDER DOCTORS. FREDERICK W. LODDING, Worcester, Mass., assignor to Rice, Barton & Fales, Inc., Worcester, Mass., a Corporation of Massachusetts. Filed May 9, 1927. Serial No. 189,776. 8 Claims. (Cl. 92—74.)



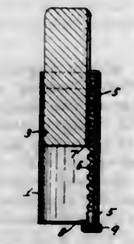
1. In a calender, the combination with the calender rolls, of a doctor movably mounted for engaging each roll and electrically operated means for controlling the position of the doctors with respect to their rolls.

1,675,364. OPTICAL APPARATUS FOR EXAMINING CAVITIES AND TUBES IN THE BODY. GÜNTHER LOECK, Berlin, Germany, assignor to the Firm George Wolf G. m. b. H., Berlin, Germany. Filed Mar. 26, 1927, Serial No. 178,797, and in Germany Mar. 30, 1926. 1 Claim. (Cl. 128—4.)



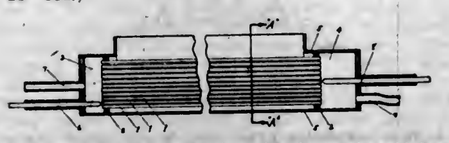
Optical apparatus for examining cavities and tubes in the body, containing optical elements, adapted to present to the observer an image of the part to be examined, at least one of these elements consisting of two lenses, united by means of dyed cement.

1,675,365. LIP STICK. JOHN L. MCATEE, New York, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed July 30, 1926. Serial No. 125,899. 3 Claims. (Cl. 206—56.)



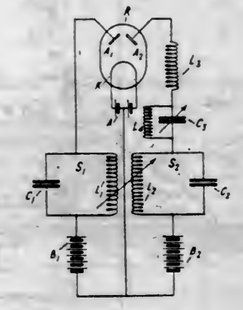
3. In a lipstick, the combination of a single outer casing and a cover therefor both oval in cross section, an oval rouge stick holder frictionally engaging the inner walls of the casing, a groove in a thin edge of the stick holder, a projection adjacent the groove of the holder, and a screw rod held in the casing between the holder and the side of the casing out of contact with the rouge and working in the groove for giving the holder a longitudinal sliding movement in the casing.

1,675,366. MANUFACTURE OF HYDROCYANIC ACID FROM FORMAMIDE. PAUL LA FRONE MAGILL and PAUL JOHNSON CARLISLE, Niagara Falls, N. Y., assignors to The Roessler & Hasslacher Chemical Co., New York, N. Y., a Corporation of New York. Filed Jan. 14, 1927. Serial No. 161,054. 12 Claims. (Cl. 23—151.)



1. Process for the production of hydrocyanic acid from formamide which comprises passing formamide vapor in contact with brass at a temperature about 300° C.

1,675,367. METHOD AND ARRANGEMENT FOR GENERATING OSCILLATIONS BY TWO-ANODE ELECTRON TUBE. ALEXANDER MEISSNER, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Dec. 15, 1924, Serial No. 755,889, and in Germany Dec. 19, 1923. 2 Claims. (Cl. 250—36.)



1. A system for generating electrical oscillations including a thermionic valve comprising a hot cathode and two cold anodes symmetrically spaced with respect to the cathode, an oscillating circuit connected to each anode and the cathode, coupling means for coupling the two circuits, a source of direct current for each of said circuits and phase adjusting means in one of said circuits of such a value that the alternating potential set up by said oscillatory circuits one of said anodes is 180° out of phase with respect to the alternating potential set up on the other of said anodes.

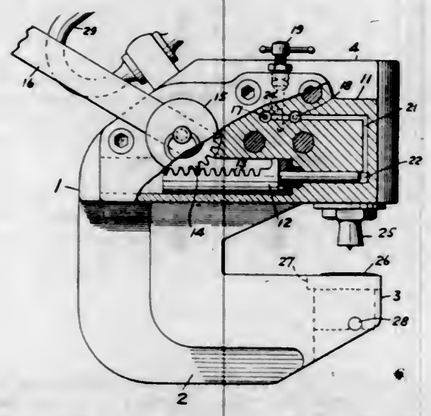
1,675,368. MOP. HIPPOLYTE F. MENGDEN, Houston, Tex. Filed May 31, 1927. Serial No. 195,342. 4 Claims. (Cl. 24—17.)



1. In a mop a securing thrum band formed of a strip of metal having an eye at one end with sides

which converge outwardly, the other end of the band having a tongue adapted to be looped through said eye and gripped by the converging sides thereof.

1,675,369. HYDRAULIC PUNCH. WILLIAM MESSINGER, Philadelphia, Pa. Filed Feb. 19, 1927. Serial No. 169,503. 1 Claim. (Cl. 164—95.)



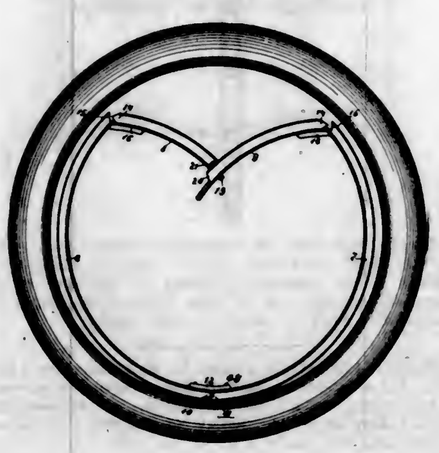
A hydraulic punch comprising a generally C-shaped frame having at the end of its lower arm a claw and having in the end of its upper arm a cylinder space aligned with the claw and having its head integral with the upper arm, said cylinder space providing a length of stroke exceeding the distance between the arms and said upper arm having within it a reservoir and a toothed wheel hand operated mechanism, a ram arranged in the cylinder space and introducible therein through the opening provided by the claw, said ram having rack teeth engaging the hand operated mechanism for quick motion, a pump body applied to the lateral face of the upper arm and provided with hand operated pump elements and relief and other valves, and fluidways provided in the body and in the upper arm.

1,675,370. THERMAL RELAY. FREDERICK H. MILLER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Continuation of application Serial No. 387,571, filed June 9, 1920. This application filed Mar. 12, 1925. Serial No. 14,963. 3 Claims. (Cl. 200—113.)



1. A thermal element comprising a bimetallic strip having a plurality of laterally extending slots, said slots being alternately open at opposite edges thereof to increase the length of the current-conducting path therethrough, and means for controlling the relative movement between the different portions so constituted.

1,675,371. DEMOUNTABLE TIRE-CARRYING RIM. PHILIP M. MILLER, Brooklyn, N. Y., assignor, by mesne assignments, to R. E. H., Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 10, 1922. Serial No. 593,915. 3 Claims. (Cl. 301—32.)



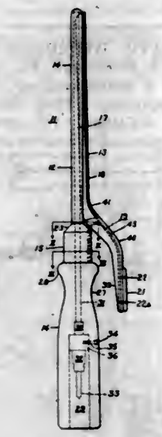
3. The combination with a plurality of arcuate channeled sections collectively forming a tire-carrying annulus, of a joint between two sections including rigid means on one of said sections slidably engaging with corresponding means of the other said section, a flexible member rigidly secured to the ends of said sections, the said member holding the said sections in a pivotal engagement one with another, and means pivotally holding the said other sections one with another.

1,675,372. SWIMMING DEVICE. HARTWIG MOHR, Brooklyn, N. Y. Filed Dec. 10, 1927. Serial No. 239,235. 2 Claims. (Cl. 9—21.)



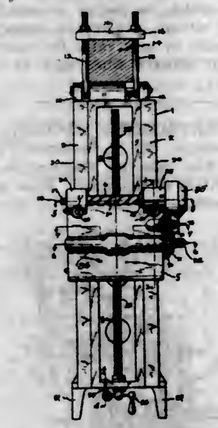
1. In a swimming-device, the flexible, single waterproof web, fastened to both legs and the body by straps and belt, substantially as set forth.

1,675,373. ELECTRIC CURLING IRON. AUGUST J. MOTTLAU, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 14, 1925. Serial No. 69,037. 8 Claims. (Cl. 132—37.)



1. In combination, in a curling iron, a tubular member, a tong member co-operating therewith and a spring member for pivotally supporting and biasing said tong member to operatively engage said tubular member.

1,675,374. PORTABLE MILLING MACHINE. STEPHEN E. MUELLER and GUY M. RODGERS, Moline, Ill. Filed June 14, 1926. Serial No. 115,796. 11 Claims. (Cl. 90—12.)



1. In a portable milling machine, in combination, a bed, a carriage slidable longitudinally of the bed, a rotatable milling cutter having its axis parallel to the surface to be milled, adjustable mountings adjacent the ends of the cutter to receive said cutter whereby, by adjusting said mountings, said cutter may be adjusted independently of said carriage toward and away from the work to be milled, driving means to rotate said milling cutter on its own axis, said driving means comprising a pair of cooperative members to drive said milling cutter when adjusted for any desired depth of cut, said cooperative members being mounted on different axes, and means to permit relative bodily movement of one cooperative member with respect to the other.

1,675,375. COMBINATION FURNITURE. FRANK NETSCHERT, New York, N. Y. Filed Apr. 28, 1925. Serial No. 26,331. 3 Claims. (Cl. 155—22.)

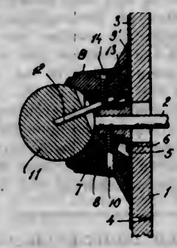


3. An article of the kind described comprising a frame capable of being propelled over a surface and including top rails and intermediate rails each provided with recesses, a baby-walking device, rigid supporting members carrying said device and adapted to set into the recess of the top or intermediate rails for supporting said walking device at different levels upon said frame and slidable latches on said rails for detachably securing said rigid supporting members in the recesses thereof.

1,675,376. SULPHUR-BEARING ARTICLE. HARRY A. NOYES, Sound Beach, Conn., assignor to Texas Gulf Sulphur Company, Bay City, Tex., a Corporation of Texas. Filed Jan. 27, 1927. Serial No. 164,133. 1 Claim. (Cl. 18—55.)

As a new article of manufacture, a rigid molded structure comprising a compact mass of relatively small particles of wood in which the particles are held together solely by the bonding action of congealed sulphur.

1,675,377. VARIABLE-CONTROL DEVICE. LOUIS G. PACENT, Winfield, N. Y. Filed Apr. 6, 1923. Serial No. 630,221. 4 Claims. (Cl. 14—7.)

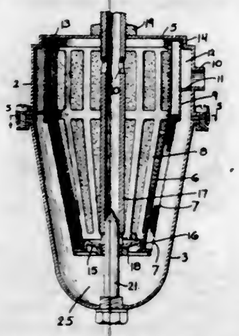


1. The combination with a rotatable shaft of a main knob mounted thereon and rotatable with said shaft, a stationary member having gear teeth disposed concentrically with said shaft, an auxiliary knob partly disposed within a recess in said main knob, a spindle rotatable by said auxiliary knob and having its axis of rotation disposed at an angle to said shaft, and a pinion rotatable by said spindle, said pinion being in mesh with said gear teeth, said knobs, said member, said spindle and said pinion being combined in a self-contained unit.

1,675,378. GASOLINE PURIFIER. CARL E. PEARSON, Camden, N. J., assignor to Motor Requirements Corporation, Camden, N. J., a Corporation of New Jersey. Filed May 16, 1927. Serial No. 191,603. 6 Claims. (Cl. 210—165.)

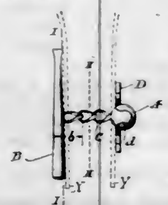
1. In a gasoline purifier, a casing, a filtering element therein including a chamois sleeve of annular horizontal section, a vertical annular baffle surrounding and spaced from the upper portion of the sleeve, the casing having an inlet adjacent said baffle, an outlet leading from the in-

terior of the sleeve, and a perforated distributing ring arranged below the inlet and extending across the space



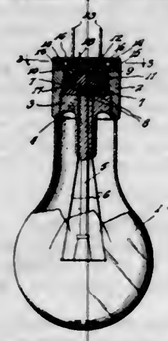
between the baffle and the casing, the perforations of said ring increasing in area away from said inlet.

1,675,379. CUFF LINK. JOSEF PEJCHAR, Brooklyn, N. Y. Filed Dec. 4, 1926. Serial No. 152,550. 1 Claim. (Cl. 24—90.5.)



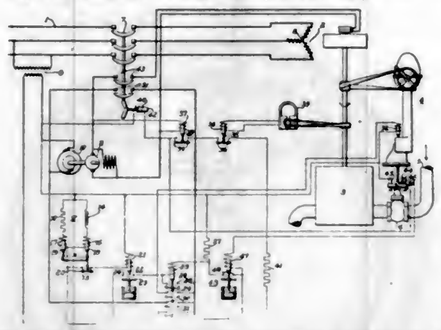
A cuff link comprising two end members of predetermined ornamental shape, a connecting member extending between and secured to said end members, and an auxiliary metallic member of predetermined form loosely mounted on said connecting member and freely movable thereon between said end members into engagement with either of them to form therewith an ornamental end member visible upon the outside of the cuff and to constitute a button hole guard for preventing the end member from exerting tearing strains upon the button hole of the cuff, said auxiliary member being further movable to an intermediate position between said end members so as to occupy a hidden position on the cuff.

1,675,380. ELECTRIC-LIGHT-BULB CAP. FRED W. PUND, Cincinnati, Ohio. Filed July 6, 1927. Serial No. 203,819. 4 Claims. (Cl. 176—32.)



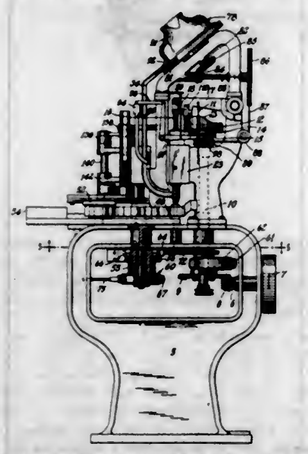
1. An electric lamp comprising a bulb, a filament in said bulb having end portions projecting from the butt end of the bulb, a hollow cap carried by and projecting from the butt end of the bulb and provided with an internal annular shoulder between its outer end and the butt end of the bulb, terminal blades connected with the end portions of said filament and seated in the outer end portion of said cap and projecting from the cap, and a set plastic filler for said cap overlying the inner end portions of said blades.

1,675,381. AUTOMATIC HYDROELECTRIC STATION. MAURICE E. REAGAN, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 15, 1923. Serial No. 668,516. 3 Claims. (Cl. 290—4.)



1. The combination with a generator, a prime mover for driving said generator, a source of energy supply for said generator, means for controlling the energy supply to said generator comprising a governor and a valve controlled thereby, a circuit breaker for connecting the generator to the line, of means comprising a limit switch operable by said valve for actuating said governor when the latter has been in a position to supply energy to said prime mover at less than a predetermined rate for a predetermined time, whereby said governor moves the valve to a position at which no energy is supplied from the generator to said circuit, and means comprising another limit switch operable by said valve for causing the opening of said circuit breaker when said valve has moved to said position.

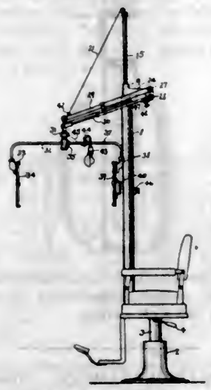
1,675,382. BATTERY-MAKING MACHINE. OTTO KARL REINHARDT, Jamnica, N. Y., assignor, by mesne assignments, to Yale Electric Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 13, 1926. Serial No. 129,099. 12 Claims. (Cl. 29—84.)



1. A battery making machine having, in combination, means for vertically supporting a battery in disc receiving

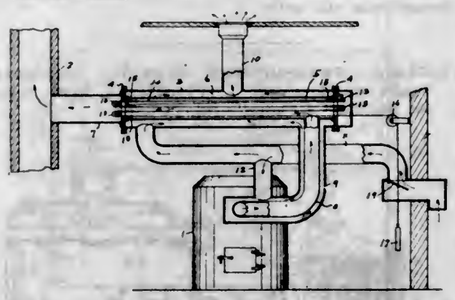
position with its central electrode exposed, means for feeding a disc into disc-applying position above said electrode, friction means for temporarily retaining said disc in disc-applying position above said electrode, and means for engaging said disc and moving the same into the battery to a position about said electrode.

1,675,383. MIRROR FOR BARBER OR BEAUTY-PARLOR CHAIRS. BALDASSARE N. ROCCAFORTE, Houston, Tex. Filed Aug. 23, 1926. Serial No. 130,797. 2 Claims. (Cl. 45—97.)



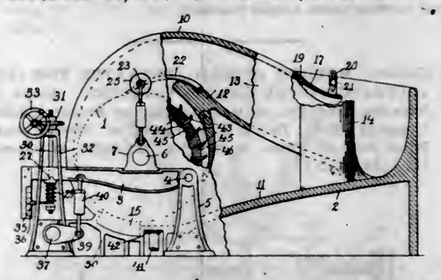
1. A chair attachment comprising a tubular post, a block rotatable thereon, a staff adjustable vertically in said block, a pulley at the upper end of said staff, a bracket on said block, parallel arms pivoted at one end to said bracket to swing in a vertical plane, mirror supporting means at the other ends of said arms, a weight in said post, and a flexible line secured to said weight passing over said pulley and secured to one of said arms adjacent said mirror supports, and means to limit the downward movement of said arms.

1,675,384. AUXILIARY HEATING ATTACHMENT FOR FURNACES. WILLIAM SCHAU, Kalamazoo, Mich. Filed Jan. 31, 1927. Serial No. 164,828. 1 Claim. (Cl. 257—166.)



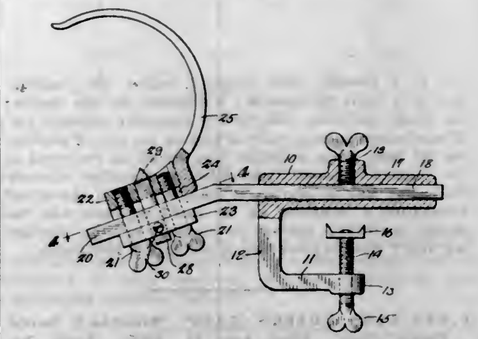
In a device of the character described adapted for use with a furnace, an outer drum having annular end plates, an inner drum whose ends are anchored to the respective end plates and whose walls are spaced from the outer drum forming an air circulating chamber between said drums, a smoke outlet leading from the inner drum, a smoke pipe adapted to lead from the combustion chamber of the furnace and connected into the inner drum, a jacket surrounding and spaced from said smoke pipe and entering one end of said chamber, an air inlet pipe connected into the other end of said chamber, a branch pipe leading from said air inlet pipe and connected into said jacket.

1,675,385. BEATING ENGINE. LEO SHLICK, Boston, Mass. Filed Jan. 25, 1923, Serial No. 615,451. Renewed Jan. 19, 1927. 16 Claims. (Cl. 92—25.)



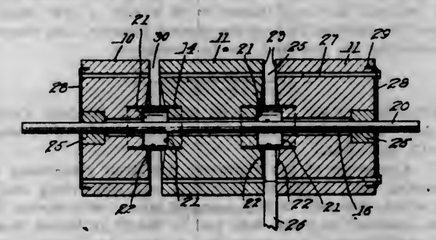
1. A beating engine comprising a tub, a beater roll, a back fall higher than the topmost point of the beater roll, an upwardly curved deflector pivoted at one end to the back-fall and presenting its free edge close to and above the beater roll and on a line beyond said topmost point.

1,675,386. PIPE CUTTER. JOHN SCHULTHEISS, Baltimore, Md. Filed Oct. 24, 1927. Serial No. 228,241. 4 Claims. (Cl. 81—189.)



1. In a pipe cutter, a bracket, clamping screws extending through said bracket, a clamping head carried by said screws in spaced relation to said bracket, a knife projecting through said head between said screws, and an arcuate guide frame having a foot positioned between said head and bracket and clamped removably on the bracket by said head.

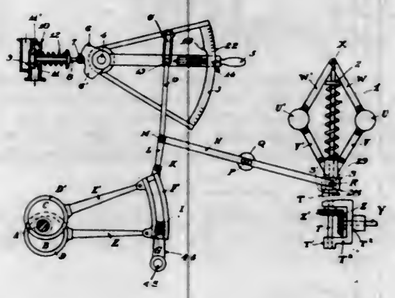
1,675,387. METHOD OF JOINING WOOD PIECES FOR MAKING ROLLS. WARREN J. SIMONDS and JOHN G. SPEAR, Orange, Mass., assignors to Rodney-Hunt Machine Company, Orange, Mass., a Corporation of Massachusetts. Filed Dec. 14, 1926. Serial No. 154,822. 7 Claims. (Cl. 144—31.)



1. The method of making up wood rolls out of a plurality of wood discs, which consists in assembling a series of these discs on a shaft with the grain all run-

ning parallel to the shaft, leaving the discs all spaced apart, squaring up each two adjacent end surfaces simultaneously, forcing the discs together on the shaft, and uniting them under pressure.

1,675,388. METHOD OF AND APPARATUS FOR CONTROLLING POWER-DRIVEN VEHICLES. ALLAN D. SKINNER, Erie, Pa., assignor to Skinner Patent Holding Company, Erie, Pa., a Corporation of Pennsylvania. Filed Oct. 18, 1919. Serial No. 331,686. 43 Claims. (Cl. 121—142.)



1. In a pressure fluid actuated engine, the combination of a valve mechanism; a throttle for the engine; and speed controlled and directly manually operable cut-off mechanism automatically actuating the cut-off shortening the same from an initial long cut-off as the speed of the engine increases with initial acceleration whereby the engine may be started at long cut-off and the cut-off automatically shortened as the speed increases and the engine controlled during its normal running through the direct manual operation of the cut-off mechanism.

1,675,389. JOINER'S CLAMP. WHEELER E. SMITH, Pueblo, Colo. Filed Apr. 21, 1927. Serial No. 185,562. 6 Claims. (Cl. 144—303.)



1. A clamp comprising a body, members having the body disposed therebetween, one of the members having an inclined face and formed with a slot, a jaw seated upon the inclined face of the slotted member, and means connecting the jaw and the two members.

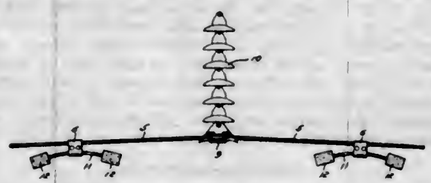
1,675,390. PUMP. CHARLES STARYSKY, Wichita Falls, Tex. Filed July 6, 1925. Serial No. 41,735. 5 Claims. (Cl. 103—181.)

1. Apparatus of the character described comprising a pumping unit, a flexible operating and supporting cable by which said unit is first lowered into a well casing, is then operated to pump fluid and is finally abstrated from the well casing, an expansible packer, and means operatively connecting the pumping unit and cable having an abutment member thereon cooperating with said unit in one direction of movement to expand the packer in the first instance thereby to sustain the unit in operative position within the well casing and cooperating with



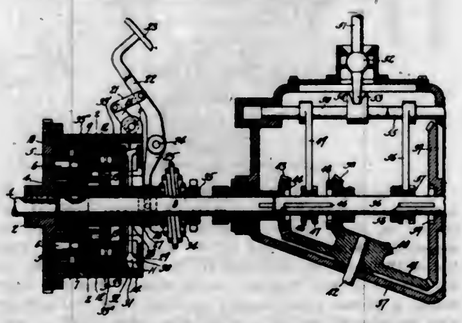
said unit in the reverse direction of movement subsequently to release the packer preparatory to the abstraction of the unit from the well casing.

1,675,391. VIBRATION DAMPER. GEORGE H. STOCKBRIDGE, Los Angeles, Calif. Filed Nov. 12, 1925. Serial No. 68,634. 7 Claims. (Cl. 173—13.)



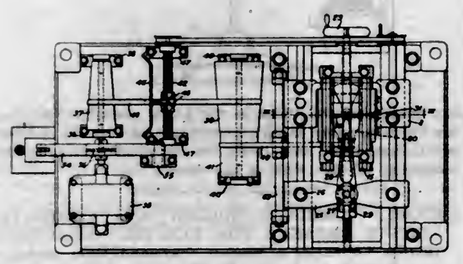
1. In combination with a cable in a span, a vibration damper comprising; a substantial mass and a member interposed the mass and cable resiliently suspending the former from the latter.

1,675,392. TRANSMISSION GEARING. STONEWALL TOMPKINS, Passaic, N. J. Filed July 6, 1927. Serial No. 203,775. 4 Claims. (Cl. 74—34.)



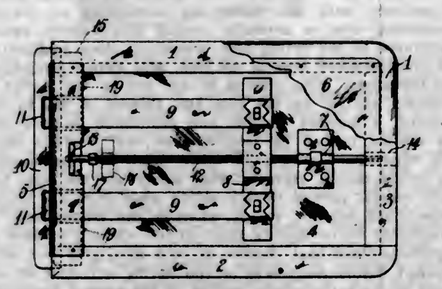
1. In transmission gearing, a driving shaft and a second shaft, planetary gearing connecting the driving and second shafts, a floating gear meshing with the planetary gears, a brake adapted to hold the floating gear stationary to cause the planetary gears to drive the second shaft at slower speed than the driving shaft, clutch members adapted to clamp the driving shaft to the second shaft for high speed, a spring adapted to hold the clutch members so clamped, a foot lever adapted to hold the spring retracted and the clutch members unclamped, and means operatable by the said lever for setting the brake on the floating gear during a first part of the movement of the lever and releasing the said brake during a second part of its movement.

1,675,393. BALANCING MACHINE. WILLIAM E. TRUMPLER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 8, 1924. Serial No. 736,458. 22 Claims. (Cl. 73—51.)



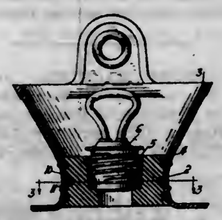
1. A balancing machine comprising a base, a fulcrum support slidingly mounted thereon, a spring support secured to said base, flexible fulcrum members secured to said fulcrum and spring supports, an oscillatable bed supported on said fulcrum support, and means for journalling a body to be tested on said bed.

1,675,394. LOOSE-LEAF BINDER. WILLIAM VENNARD, London, England. Filed Jan. 13, 1927, Serial No. 160,831, and in Great Britain Feb. 15, 1926. 6 Claims. (Cl. 129—41.)



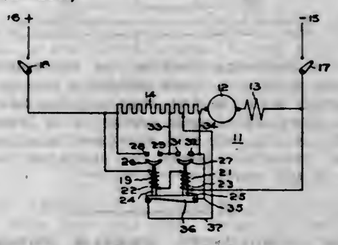
1. In a loose-leaf binder of the character described having thongs attached to a bar adjusted by screw mechanism in one of the covers, a cover comprising a wall and a back edge formed as a one-piece component, and a front edge formed by a stretcher, the thongs passing through said back edge, and a thrust bearing for the winding mechanism being mounted on said intergral component, so that the stresses due to tightening the thongs are confined to the wall and the back edge integral therewith.

1,675,395. WATER BOTTLE. CHAUNCY P. WHISLER, Kenmore, Ohio, assignor to The Rubber Products Company, Barberton, Ohio, a Corporation of Ohio. Filed July 17, 1926. Serial No. 123,033. 4 Claims. (Cl. 150—8.)



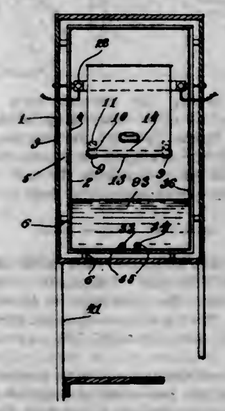
1. A hot water bottle comprising a body and a neck portion, a rubber plug within the neck portion and having a threaded socket member embedded therein, and mating grooves and ribs between the plug and the neck of the bottle.

1,675,396. THERMAL RELAY. HAROLD E. WHITE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Mnufacturing Company, a Corporation of Pennsylvania. Filed May 4, 1925. Serial No. 27,720. 10 Claims. (Cl. 172—288.)



1. A thermally-controlled motor starter comprising a current-traversed magnetically-reversible member, and a plurality of electro-magnetic switches operated in predetermined sequence thereby.

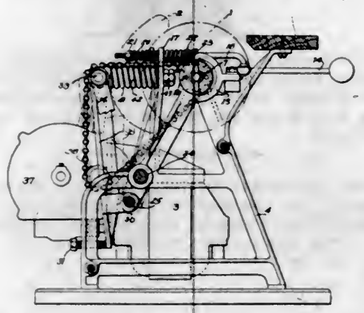
1,675,397. CAN-LABELING-MACHINE PICK-UP CEMENT HEATER. CHARLES H. WILD, Baltimore, Md., assignor to Burt Machine Company, Incorporated, a Corporation of Maryland. Filed July 18, 1924. Serial No. 726,889. 2 Claims. (Cl. 126—284.)



1. In an apparatus for heating pick-up cement for can-labeling machines, a heating chamber having means for holding the cement cans in inverted position, heating

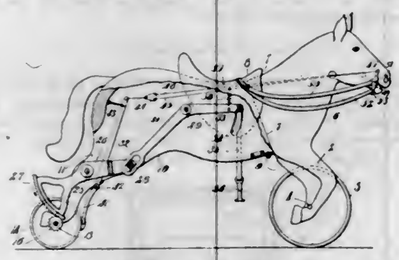
means adjacent the cans as thus held, and heating means near the bottom of the chamber, the receptacle having an opening to admit the cans, and a closed portion below said opening to hold liquid cement from the cans, and means for separately controlling the heating effect in said respective heating means.

1,675,398. LAUNDRY MACHINE. ALLEN S. WISE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 22, 1924, Serial No. 715,105. Renewed Nov. 23, 1927. 21 Claims. (Cl. 68—9.)



1. In a laundering machine, the combination of a laundering member, a second laundering member adapted to cooperate with the first mentioned laundering member for direct action upon articles to be laundered, a motor for moving said first mentioned laundering member and mechanical means for preventing the overloading of said motor.

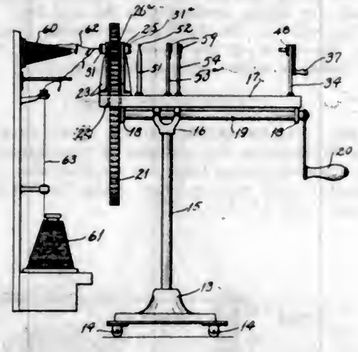
1,675,399. HOBBYHORSE. EUGENE R. WITHERELL and JOHN J. CLARK, Framingham, Mass. Filed Apr. 21, 1926. Serial No. 103,603. 10 Claims. (Cl. 208—42.)



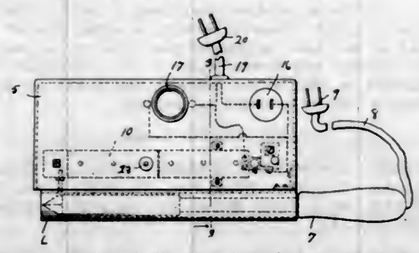
1. A vehicle having the general form of a horse adapted to carry a rider comprising a driving wheel having an axle, means operable by the pressure of the foot of the rider for engaging said axle to propel the vehicle, and means for disengaging the last named means to permit free movement when the foot of the rider is released.

1,675,400. APPARATUS FOR AND METHOD OF SPLICING MULTIPLY THREAD. RAYMOND L. YOUNG, St. Louis, Mo., assignor to Bemis Bro. Bag Co., St. Louis, Mo., a Corporation of Missouri. Filed Feb. 12, 1926. Serial No. 87,750. 17 Claims. (Cl. 117—6.)

1. The method of splicing multiply threads which consists in clamping the free ends of parallel spaced apart horizontally extending threads to prevent the same from untwisting, imparting to each thread at points equally removed from the application of said clamping a rotary movement for removing the twist of said threads and to permit the plies thereof to be separated, arranging the plies of one thread in pairs with the plies of another thread, uniting by individually tying together the pairs of plies at longitudinally spaced apart points without destroying the twist in the plies, partially restoring the twist in said threads, removing said threads at their point of rotation, and, lastly, automatically restoring the remainder of the twist to the thread.



1,675,401. COMBINED HOLDER AND AUTOMATIC CIRCUIT BREAKER FOR ELECTRIC SOLDERING IRONS. WILLIAM ALFERINK, Cleveland, Ohio, assignor of one-third to Joseph H. Weaver and one-third to Carrie L. Weaver, Cleveland, Ohio. Filed Dec. 22, 1926. Serial No. 156,388. 4 Claims. (Cl. 219—23.)

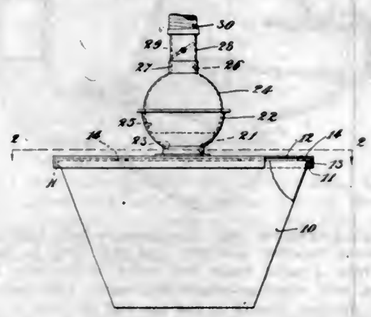


3. In a device of the class described, a casing, means associated with the casing for supporting an electric soldering iron, a normally closing thermostatic switch arranged in the casing and operable to open position by a predetermined heat of the iron, said switch comprising a thermostat strip pivoted at one end in the casing, a contact carried by the free end thereof, a pin in the casing, a member slidable and adjustable on said pin, a contact carried by said member, said contacts being in engagement with each other until the iron reaches a predetermined degree of heat whereupon the strip and the contact carried thereby moves away from the second mentioned contact, means whereby the switch may be regulated as to operate in a circuit opening manner at predetermined heat degrees of said iron, said last mentioned means comprising a coil spring attached at one end to the intermediate portion of the pivoted strip, and an adjustable device arranged on the outer side of the casing and connected to the other end of the spring for adjusting the tension thereof.

1,675,402. METHOD OF PREPARING NITROPYRIDINE ARSENIC ACIDS. ARTHUR BINZ and CURT RÄTH, Berlin, Germany. Filed July 28, 1927, Serial No. 209,170, and in Germany Aug. 5, 1926. 6 Claims. (Cl. 260—14.)

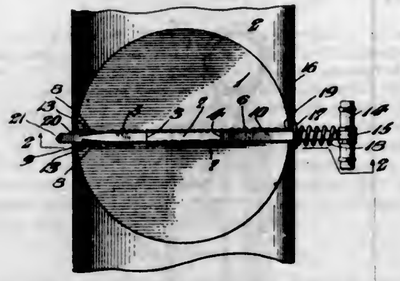
1. Method of preparing nitropyridine arsenic acids, comprising the step of treating substituted pyridine arsenic acids with energetically reacting nitrating agents.

1,675,403. APPARATUS FOR FUME CONTROL. VERN K. BOYNTON, Beaumont, Tex., assignor to Perry & Webster, Inc., New York, N. Y., a Corporation of New York. Original application filed May 27, 1921, Serial No. 473,073. Divided and this application filed Jan. 23, 1922. Serial No. 531,300. 5 Claims. (Cl. 134—26.)



1. In a device for controlling condensible fumes, in combination, a liquid-holding kettle, a cover spaced from the top of the kettle allowing the admission of air around the periphery thereof, a draft conduit connected with the upper portion of the kettle and means for controlling the draft whereby the amount of air admitted through said space is controlled.

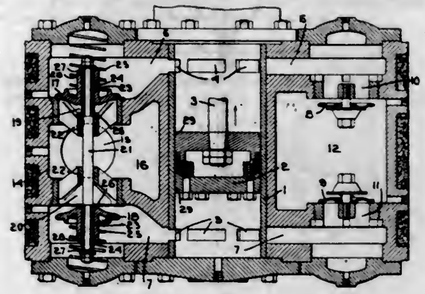
1,675,404. DAMPER. AARON COHN, Philadelphia, Pa. Filed May 4, 1927. Serial No. 188,684. 1 Claim. (Cl. 126—292.)



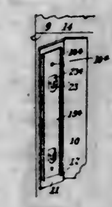
In a device of the character stated, a damper plate having opposed and alternately staggered and longitudinally aligned channels of substantially rectangular cross section extending across the same, a damper rod of generally rectangular cross-section adapted to be inserted into said channels and interlock with the same so as normally to prevent relative rotation thereof with respect to the plate, a handle carried by one end of said damper rod, said damper rod having near its other end a pair of notches and resultant rearward locking shoulders, corresponding constrictions and resultant shoulders in one of said channels adapted to interlock and engage with the corresponding shoulders on said damper rod, and a spring intermediate said handle and said damper plate for maintaining a constant axial tension on the damper rod, and thereby normally to maintain said rod in locking engagement with said damper plate.

1,675,405. LIQUID PUMP. MYRON W. DOLE, Belmont, Mass. Filed Mar. 14, 1927. Serial No. 175,045. 7 Claims. (Cl. 103—175.)

1. In a double-acting pump, in combination, a pump cylinder having a piston therein, discharge ports, an induction port, an inlet valve device which in one extreme position opens communication between said induction port and one end of the cylinder while maintaining said induction port closed to the other end of the cylinder, and in the other extreme position closes the first-named communication and opens the second-named communication, and in a central position closes communication between the induction port and both ends of the cylinder, and means tending normally to move said valve device into central position, said valve device when in said central position having a portion at least of each end exposed to the pressure in the corresponding end of the cylinder, whereby the valve device will be automatically centered at the end of each piston stroke and will be positively moved into either extreme position by the pressure developed in the cylinder.



1,675,406. PORTFOLIO. JAMES D. DOUGLAS, Detroit, Mich. Filed Oct. 20, 1926. Serial No. 142,824. 4 Claims. (Cl. 281—19.)



1. In a portfolio, the combination of two cover members flexibly connected at their inner ends, a binder support flexibly mounted on one of said cover members substantially at right angles to the inner end of said cover member, and a binder removably engaged with said binder support.

1,675,407. OPTOMETRICAL INSTRUMENT. ISRAEL DVORINE, Baltimore, Md. Filed Aug. 16, 1927. Serial No. 213,253. 4 Claims. (Cl. 33—200.)

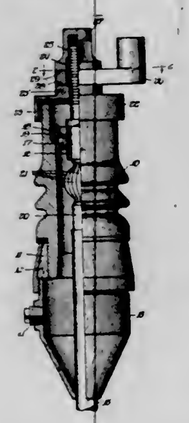
1. The combination in an instrument for determining by measurement taken from the patient the position of the line of intersection of the segments of a bifocal lens or spectacles which consists of a transparent oval measuring plate, a casing for the same slotted to admit the measuring plate and having a measuring abutment adapted to contact the edge of a spectacle rim, the casing having a hollow handle having a longitudinal slot therein and a shaft within the handle supporting the plate with

means on the shaft protruding through the slot whereby the plate may be moved up and down relatively to the



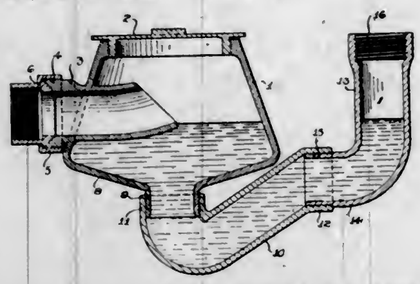
rim and in front of the eye to determine the proper relation of the line of intersection of the segments of the bifocal lens to the rim.

1,675,408. ELECTRICAL-CONDUCTOR-PROTECTING MEANS. GEORGE P. EDMONDS, Chicago, Ill., assignor to G. & W. Electric Specialty Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 2, 1925. Serial No. 66,165. 2 Claims. (Cl. 173—353.)



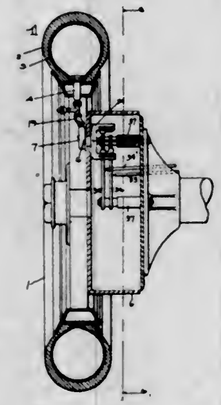
1. In combination, a casing for protecting an electrical conductor, an electrical conductor therein, an electrical connector electrically connected to said conductor, a metal skirted nut closing and covering one end of said casing and screwed onto said connector, said skirted nut having a sleeve extending along a threaded portion of said connector, a cable lug mounted over and embracing said sleeve of said nut, and a cap nut screwed onto said connector and extending over said sleeve, said sleeve extending up beyond the interengaging portions of said cable lug, skirted nut and cap nut whereby moisture is prevented from reaching the threaded portions of said members and is thereby prevented from reaching the enclosed conductor.

1,675,409. ANTISIPHON TRAP. HAROLD A. GARDNER, Sr., Rochester, N. Y. Filed Feb. 10, 1927. Serial No. 167,084. 2 Claims. (Cl. 182—21.)



1. An anti-siphon trap comprising a body having outside walls tapering upwardly and extending to the top wall from a point below the outlet of the trap and a bottom wall tapering toward its center, said body having a cleanout closure at the top and an inlet at center of its bottom, an outlet connecting the body above the bottom, a sealing portion connecting with the inlet at the center of the body, and a terminal inlet portion projecting above the water level of the body and connected with said sealing portion.

1,675,410. PRESSURE-INDICATING DEVICE. JOHN H. GARTNER, San Francisco, Calif., assignor of one-fifth to Patrick S. Higgins, one-fifth to James D. Skelly, and one-fifth to William Shackleton. Filed Feb. 15, 1927. Serial No. 168,373. 5 Claims. (Cl. 200—58.)

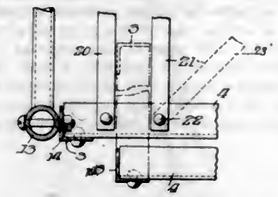


1. In means for indicating the pressure in the tire of a moving vehicle, an arc-shaped contact fixed relative to the vehicle adjacent a wheel thereof, a wiping contact supported relative to the wheel and operating means for the wiping contact subject to the pressure in the tire and arranged to keep the latter contact spaced from the former at normal tire pressure, and to effect engagement of the contacts when the tire pressure changes beyond a predetermined point.

1,675,411. COLLAPSIBLE BED. DARWIN HANAUER, La Grange, Ill., assignor to Kinney-Rome Company, Chicago, Ill., a Corporation. Filed Jan. 25, 1922. Serial No. 531,585. 7 Claims. (Cl. 5—18.)

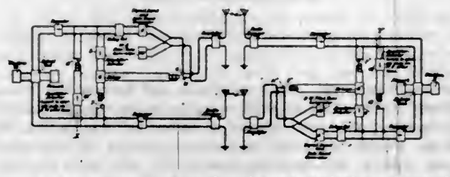
1. A metallic couch bed comprising inner and outer, self-supporting, telescoping sections, separable into independent beds and each comprising angle bar end frames

forming end bars and corner legs, a metallic fabric connecting the end bars, and side bars spaced below the fabric and connecting the corner legs, the outer section having pairs of guide bars connecting the end portions



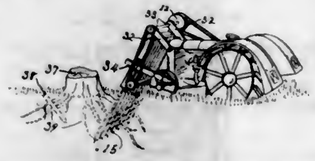
of the side bars thereof, said sections being adapted to be nested with each leg at one side of the inner section extending over one of the side bars of the outer section and between one pair of guide bars thereof, substantially as described.

1,675,412. ECHO AND SINGING SUPPRESSOR SYSTEM. WILLIAM H. T. HOLDEN, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 1, 1926. Serial No. 113,021. 5 Claims. (Cl. 178—44.)



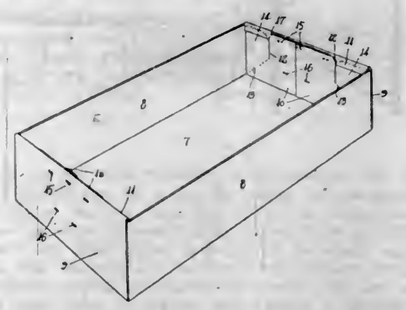
1. In a two-way system for the transmission of speech, including combined wire and radio paths adapted to transmit in opposite directions, means associated with the outgoing wire section of one of said paths for generating a pilot tone, means operable by voice currents in said section for disabling the incoming wire section of the opposite path and for supplying said pilot tone to the first path for transmission simultaneously with the voice, and means operable substantially only in response to said pilot tone for disabling the distant outgoing wire section of said opposite path.

1,675,413. GRUBBING MACHINE. DAVID A. JOHNSON, Belvue, Kans. Filed Mar. 29, 1927. Serial No. 179,383. 2 Claims. (Cl. 144—110.)



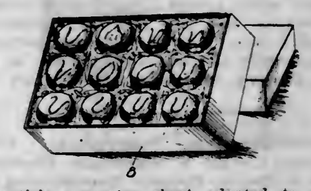
1. In a grubbing machine, in combination with a power actuating means, a frame having a shaft rotatably mounted on the upper end thereof, arms extending from the power actuating means in which the shaft is rotatably mounted and on which the frame will swing, pivotally connected bars on the power actuating means, a clamping means on the lower end of the frame to engage along said bars whereby the desired angle of the frame is fixed, a beam positioned between the sides of the frame, a toothed rack on the rear and front of both side members of the frame, a pair of gears trunnioned on both ends of the beam to engage with the said toothed racks, a train of gears connecting the first said gears as equalizing means for the rotation of the first said gears to cause a reciprocating travel of the beam, manual means to rotate the gears, a plurality of drill bits positioned in close working relation and equally spaced across the frame, the upper ends thereof rotatably engaging in the beam and thrust longitudinally thereby, the shafts of the bits being square, worm gears trunnioned on the lower end of the frame, a square aperture axially extending through the gear to slidably engage the shaft as rotating means for the bits while sliding longitudinally therethrough, worms trunnioned to engage on both sides of the gears for simultaneous rotation thereof, means to rotate the worm, all substantially as shown.

1,675,414. BOX. SAMUEL KOFF, New York, N. Y. Filed Feb. 5, 1926. Serial No. 86,321. 1 Claim. (Cl. 229—34.)



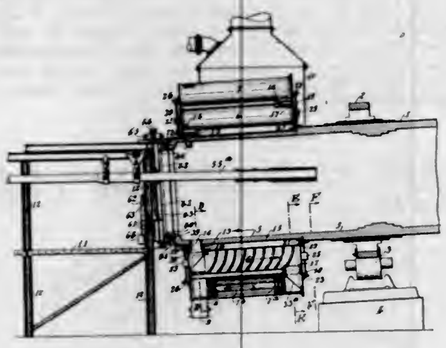
A box of cardboard or similar material comprising a bottom, side walls and end walls, the end walls having turned in lips at their upper edges and bearing against the inner surfaces of said end walls, the side walls having end flaps overlapping the inner surfaces of the end walls, said flaps having slits extending downwardly from their upper edges at distances from the corresponding side walls less than the height of said walls, said flaps having inclined fold lines between the slits and corners of the bottom, the portions of the flaps beyond said slits extending upwardly and overlapping the intermediate portions of said lips with the lips located between said portions of the flaps and the end walls, and securing means engaging through said end walls, lips and portions of the flaps to clamp the lips between said portions of the flaps and end walls and to confine the flexing of the lips away from the end walls to those portions of the lips between said slits and side walls, the portions of the flaps at the upper ends of the slits above said fold lines being cut away to enable such portion to be engaged under the end portions of the lips when the box is erected.

1,675,415. CANDY PACKAGE. JOHN E. LIEBRICH, Indianapolis, Ind. Filed Apr. 1, 1925. Serial No. 19,773. 3 Claims. (Cl. 229—42.)



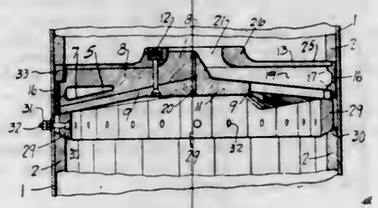
2. An article separator sheet adapted to contain a plurality of articles and comprising a flexible separator sheet upon which a plurality of articles are adapted to rest, said sheet having integral vertical irregular puckers folded in the sheet on all sides of each of the articles thereon between the adjacent articles.

1,675,416. ROTARY KILN AND COOLER. POUL T. LINDHARD, Brooklyn, N. Y., assignor to F. L. Smidth & Co., New York, N. Y., a Corporation of New Jersey. Filed Feb. 12, 1926. Serial No. 87,746. 16 Claims. (Cl. 222—7.)



1. The combination of a rotary kiln for use in the manufacture of cement, having in its end portion a circumferential series of openings through which the clinker is discharged, a circumferential series of cooling drums supported by the kiln about itself and communicating respectively with the kiln through said openings and into which the clinker is directly discharged by gravity, a tubular neck secured to each drum, a removable bushing in each of said openings and extended inwardly beyond the shell of the kiln and externally into said tubular neck to protect the lining of the kiln and the associated parts from wear and means to secure the bushing removably in such position.

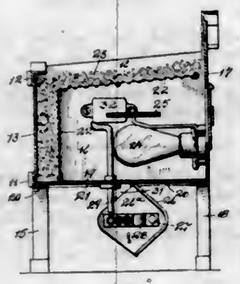
1,675,417. GRINDING-MILL SCREEN. WILLIAM FREDERICK McMAHON, Riverside, Calif. Filed Apr. 25, 1927. Serial No. 186,505. 9 Claims. (Cl. 83—9.)



1. In a grinding mill, the combination with a rotary shell, of a division head comprising a series of separating screens having a lateral inclined plane arrangement, each series formed a part of a circle comprehended between two radii and the included arc and comprising a series of radially disposed perforations inclined rearwardly and being substantially in alignment with the direction of rotation of the rotary shell.

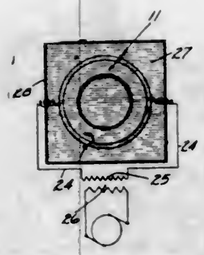
1,675,418. ELECTRIC FIREPLACE. DANIEL N. MEANY and EDWARD N. ELLSWORTH, Chicago, Ill., assignors to Electric Fireplace Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Original application filed Nov. 24, 1924, Serial No. 751,773. Divided and this application filed June 19, 1925. Serial No. 38,151. 1 Claim. (Cl. 219—45.)

In an electric fireplace, the combination of a box-like four sided grate structure having a grated front, a back in spaced relation thereto and end walls converging from the front to the back, a leg at each corner of the structure for supporting the same in elevated relation with respect to the hearth, a reticulated support for artificial fuel located within the grate and having its supporting surfaces in spaced relation behind the grated front and below the top of the grate structure, artificial fuel carried by said support and exposed over the top and in front thereof to simulate a bed of coals, illuminating devices within the grate structure and below and behind the artificial fuel for illuminating the same, an elongated open fronted reflector extending lengthwise



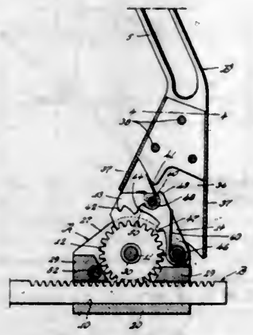
of and below the grate structure and behind the transverse center thereof, said reflector being trough shaped, hangers at the ends of the deflector for supporting the same below the fuel supporting portion of the grate and within the space subtended by the legs, an elongated heating element extending lengthwise of the trough shaped reflector and located near the inner angle thereof, current wires leading to the illuminating devices and to the heating element, and switch mechanism for controlling the flow of current to either or both of said heating and illuminating devices, substantially as described.

1,675,419. PROCESS OF INSULATING MOTOR WINDINGS. THOMAS G. MYERS, Los Angeles, Calif., assignor to United States Electrical Manufacturing Company, Los Angeles, Calif., a Corporation of California. Filed Feb. 9, 1927. Serial No. 166,899. 8 Claims. (Cl. 171—206.)



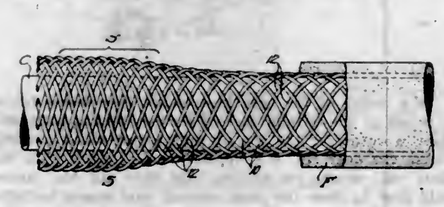
2. The method for the purpose stated comprising: forming conductors into a winding; immersing said winding in a body of liquid insulation; and passing an alternating current through said winding in order to vibrate the conductors thereof in a manner to cause said liquid insulation to enter the spaces between said conductors.

1,675,420. BOX-STRAP TIGHTENING DEVICE. STUART W. PARSONS, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed Mar. 26, 1927. Serial No. 178,800. 5 Claims. (Cl. 254—66.)



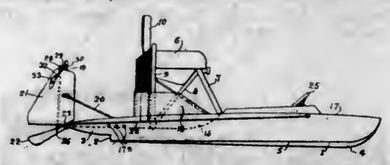
1. In a box strap tightener, a frame, a rack bar slidably mounted therein, a pivoted clamping member on said frame for holding one end of the strap, a pivoted clamping member carried by said rack bar for holding the other end of the strap, a pinion rotatably mounted in said frame and meshing with said rack bar, a handle pivoted in said frame for oscillatory movement, a spring-pressed pawl pivoted on said handle and adapted to cooperate with said pinion, the pivoted end of said pawl being rounded to provide a seating surface for the pawl, and a pawl pivoted on said frame and cooperating with said pinion to hold the same against rotation during the inoperative stroke of said handle, said last mentioned pawl having on its free end a pair of fingers with a notch therebetween rounded correspondingly to and adapted to receive said seating surface of the pivoted end of said first mentioned pawl and provide a stop and a support for the same and said handle, the rounded end of said first mentioned pawl being adapted to engage one of said fingers to move the second mentioned pawl out of engagement with said pinion and said first mentioned pawl having a cam surface with which the other of said fingers engages to move and hold said first mentioned pawl out of operative relation to said pinion when said handle is moved to the full extent of its inoperative stroke.

1,675,421. COVERING FOR CABLES AND THE LIKE. ALLEN D. PETTEE, Mount Vernon, and CARROLL H. SHAW, Jackson Heights, N. Y. Filed July 2, 1927. Serial No. 203,001. 1 Claim. (Cl. 173—266.)



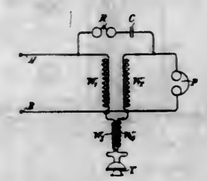
In combination, a lead covered cable having an outer covering comprising a stocking-like sheath of oppositely inclined interwoven strands and a layer of fireproof cement embedded between said strands and surrounding said sheath.

1,675,422. BOAT. GEORGE B. POST, New York, N. Y. Filed Oct. 25, 1926. Serial No. 143,949. 13 Claims. (Cl. 114—66.5.)



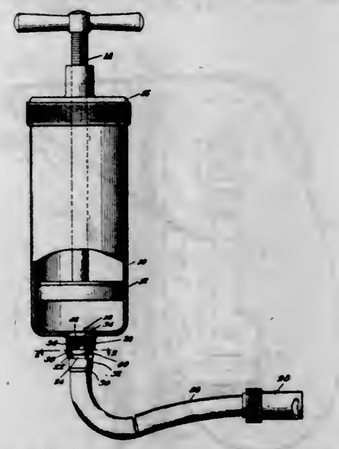
1. In combination in a boat, for steering a boat, an air rudder, a water rudder, and means automatically operated to render the water rudder inoperative.

1,675,423. TELEPHONE SUBSTATION CIRCUITS. RUSSELL S. OHL, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 24, 1926. Serial No. 118,349. 9 Claims. (Cl. 179—81.)



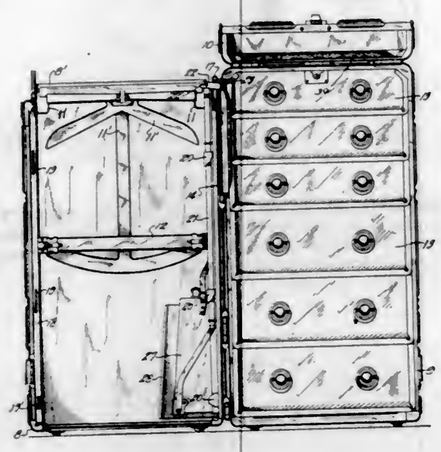
1. A system for eliminating the effect of high frequency currents induced in a telephone substation circuit, comprising means within said telephone substation circuit and in series with its transmitter for substantially suppressing these high frequency currents by reactances of predetermined magnitude.

1,675,424. LUBRICANT COMPRESSOR. EARL F. PIERCE, Winnetka, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 17, 1925. Serial No. 63,081. 3 Claims. (Cl. 221—47.3.)



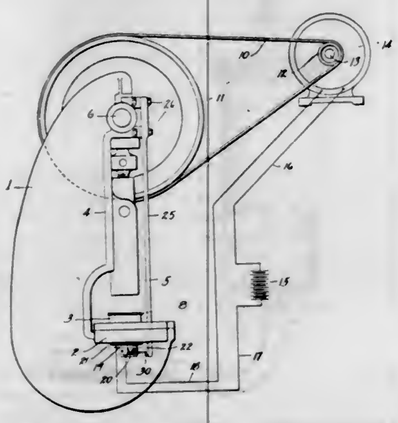
1. Lubricating means comprising a barrel, a discharge conduit, a coupling in the barrel end of said conduit, said barrel having a discharge opening, laterally open hook means for receiving said coupling and holding it in sealing relation with said opening, and automatically operable means for positively retaining said coupling against removal while the lubricant is under pressure.

1,675,425. COMBINED TOP AND FRONT-DOOR LOCK. JULIUS RITTER, Jr., Racine, Wis., assignor to Hartmann Trunk Company, Racine, Wis., a Corporation of Wisconsin. Filed Sept. 12, 1927. Serial No. 218,986. 6 Claims. (Cl. 292—157.)



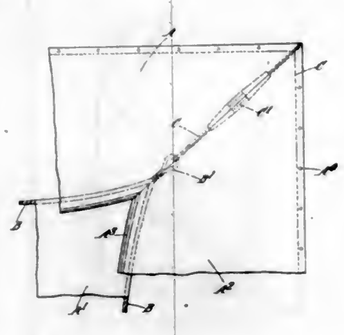
1. The combination with a wardrobe trunk formed of two hinged together sections swingable horizontally to open position, one of said sections having an open top and front and an inner top cover and an inner front cover, of a lockig means therefor, comprising a manually controlled lock for the inner top cover, and a locking means for the inner front door actuated by the movement of the inner top cover towards open or closed position.

1,675,426. AUTOMATIC STOP MECHANISM. VICTOR G. ROSS, Seattle, Wash., assignor to Seattle Can Company, Seattle, Wash., a Corporation. Filed Jan. 2, 1925. Serial No. 105. 6 Claims. (Cl 192—127.)



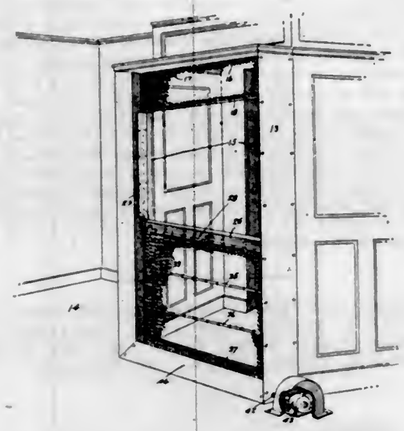
1. The combination with a machine and a control member for a source of power, said machine comprising a frame structure that is yieldable when placed under excess working strain, of means operable by said yieldable movement to actuate the control member.

1,675,427. RIGID AIRSHIP. ALFRED RYAN, Anniesland, Glasgow, Scotland, assignor to The Ioco Rubber & Waterproofing Company, Limited, Glasgow, Scotland, a British Company. Filed Sept. 15, 1927. Serial No. 219,716, and in Great Britain Sept. 17, 1926. 4 Claims. (Cl. 244—3.)



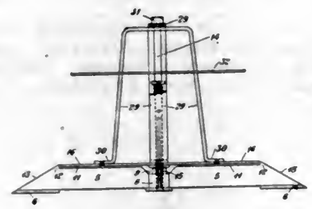
4. A detachable section for the outer cover of an airship provided with catenaries towards each edge thereof and with turnbuckles or other tautening devices for attaching the catenaries to the framework of the airship.

1,675,428. PROTECTIVE APPARATUS. EWALD J. SCHIFFKO, Oakland, Calif., assignor of one-third to Frank Franzen and one-third to Lucille Hill, Oakland, Calif. Filed Sept. 1, 1925. Serial No. 53,960. 1 Claim. (Cl. 20—1.01.)



In a device of the type described, a door frame having a recess at the bottom thereof for receiving a collapsible door, a cover for the top of said recess which normally forms the door sill, a collapsible door connected to said door sill, means for raising said door sill for causing said door to close the door opening, said means including a shaft mounted in said recess, a ratchet carried by said shaft and a pawl for engaging with said ratchet, said collapsible door being formed of chains that are shaped in a Y at the lower end thereof and secured to the sides of the walls forming the recess whereby the actuating mechanism disposed within said recess is protected.

1,675,429. REELING DEVICE. HENRY E. SCHNEE, Chicago, Ill., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 8, 1926. Serial No. 114,528. 3 Claims. (Cl. 242—78.)

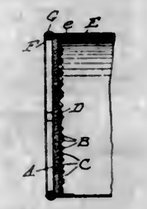


1. In a device for reeling wire, a drum adapted to support a coil of wire, said drum comprising a rotatable disk having standards positioned thereon in spaced relation from each other, a spindle for supporting said disk and standards, a base for said spindle, said base having shoulders closely adjacent to the edge of said disk to prevent the catching of the wire as it is unwound from the drum, and braking mechanism associated with said spindle for permitting the rotation of the drum in one direction under tension applied thereto in the withdrawal of the wire and preventing rotation of the drum upon the release of the pulling tension.

1,675,430. SULPHUR DYESTUFF. LINCOLN M. SHAFER, Jersey City, N. J., assignor to Tower Manufacturing Co., Inc., a Corporation of New York. Filed Jan. 18, 1926. Serial No. 82,135. 3 Claims. (Cl. 260—24.)

1. A sulphur dyestuff resulting from the reaction of sulphur on a meta-diamine, a para-diamine, and dehydro-thiotoluidine, having the characteristics of being insoluble in water but soluble in aqueous sodium sulphide with a yellowish-tan color, and having the property of dyeing unmordanted cotton in a bath containing sodium sulphide in shades ranging from tan to greenish-bronze.

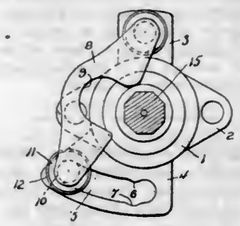
1,675,431. LIGHT TRANSMITTING AND REFLECTING DEVICE. DONALD E. SHARP, Hamburg, N. Y., assignor to Spencer Lens Company, Buffalo, N. Y. Filed Apr. 18, 1925. Serial No. 24,111. 2 Claims. (Cl. 240—8.3.)



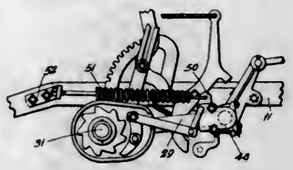
2. A light transmitting signal article of colored glass having a plurality of integral light reflecting right cones projecting from a face thereof and having substantially flat spaces arranged between the cones on the same face.

1,675,432. TOOL RETAINER. GEORGE W. SMITH, Ottumwa, Iowa, assignor to Hardsocg Wonder Drill Co., Incorporated, Ottumwa, Iowa. Filed Mar. 12, 1928. Serial No. 261,042. 3 Claims. (Cl. 121—32.)

1. In drill retainers, a drill head having a drill receiving portion, a pivot ear and a slotted ear on said drill head; a yoke having arms passing through said ears with stops to limit movement of the arms and yoke in one longitudinal direction; springs and nuts on said arms to hold said stops against said ears.



1,675,433. POWER LIFT PLOW. CARL G. STRANDLUND, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Oct. 1, 1923. Serial No. 665,897. Renewed Apr. 17, 1926. 12 Claims. (Cl. 97—73.)



1. In a wheeled plow, the combination of a beam structure, a wheeled support movable to lift or lower the plow, mechanism actuated by power of the traction to move said support to lift the plow, and means connected with the beam structure and with said support, and cooperating with said mechanism to increase the power thereof as the plow rises and operating to resist said power as the plow approaches its pre-determined height.

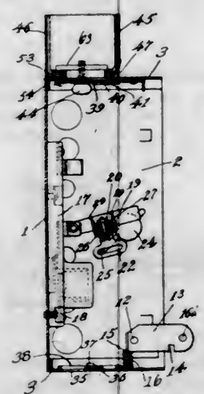
1,675,434. FLUID PUMP. CHARLES VAN AMBURGH, Long Beach, Calif. Filed May 15, 1924. Serial No. 713,493. 7 Claims. (Cl. 105—165.)



1. A fluid pump comprising a pair of pistons, a barrel in which said pistons are adapted to work, said barrel being adapted to be lowered into an oil string casing so

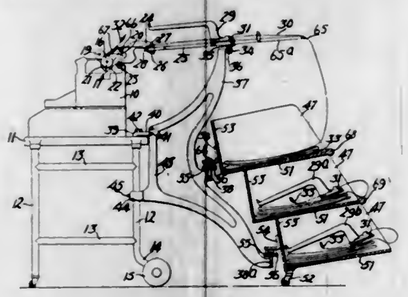
as to be submerged in the static oil of a well, both ends of said barrel being open to allow the upper strata of oil to enter the ends of the barrel and provide fluid mediums free from solid particles in which said pistons are adapted to work, and means adapted to co-operate with said oil string casing for elevating oil on each stroke of the pistons and in such manner as to prevent complete expulsion of the fluid mediums from the barrel.

1,675,435. ELECTRICAL SWITCH. GEORGE B. WADSWORTH, Covington, Ky., assignor to The Wadsworth Electric Manufacturing Company, Covington, Ky., a Corporation of Kentucky. Filed Mar. 24, 1921. Serial No. 455,027. 2 Claims. (Cl. 247—2.)



1. A sealable electrical appliance housing having an aperture at one end through which conductors may be passed and having adjustable means arranged about the aperture whereby any one of a plurality of sizes of meter terminal chambers may be substantially inclosed on at least three sides, and means operable only from within the housing for securing the adjustable means in selected positions.

1,675,436. TYPEWRITING MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed June 9, 1922. Serial No. 566,939. 2 Claims. (Cl. 312—39.)



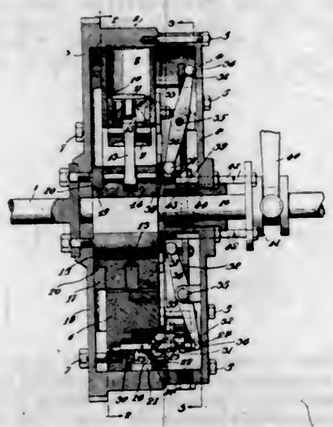
1. The combination of a stand for a typewriting machine, brackets having vertical reaches secured on the rear of the stand and provided with arms inclined in a rearward and downward direction from the rear of the stand, horizontal rails one spaced above the other and both laid across the arms and connecting them together, a work-web-holder-cabinet, including tiers of work-web-holders, and brackets on the cabinet adjustably engaging said rails for lateral adjustment of the cabinet on the rails and supporting the cabinet in a forwardly and upwardly inclined position, whereby the tiers may be brought selectively in vertical register with the carriage of a typewriting machine supported in operative position on the stand.

1,675,437. METHOD OF AND APPARATUS FOR SHAPING GOLF-CLUB FACES AND CLUB PRODUCED THEREBY. FREDERICK A. WALDRON, Westfield, N. J. Filed Aug. 4, 1927. Serial No. 210,470. 20 Claims. (Cl. 144—309.)



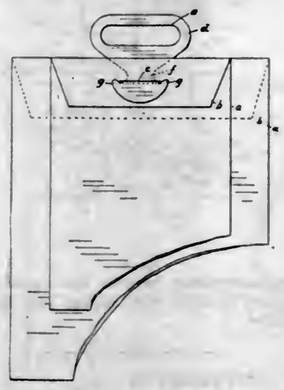
1. A golf club having a grip, shaft, and club head provided with a striking face, and wherein the angle of the striking face is fixedly related to both the lateral and torsional flexibility of the shaft and a predetermined moment produced by pressure on the striking face.

1,675,438. VARIABLE-SPEED-TRANSMITTING MECHANISM. TIMOTHY WALSH and HARRY S. COOVER, Philadelphia, Pa. Filed Jan. 21, 1925. Serial No. 3,728. 9 Claims. (Cl. 192—60.)



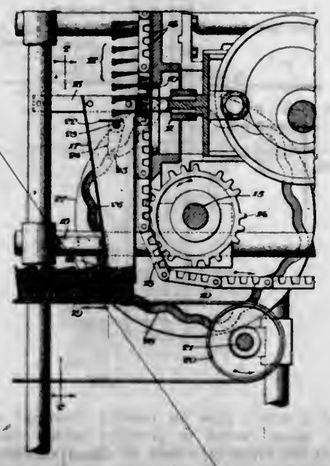
1. Variable speed transmitting mechanism including a rotatably mounted oil-tight casing; an annular block secured within the casing; cylinders extending radially inward from the periphery of the block and closed at their outer ends by the casing; pistons slidable in the cylinders; inlet ports in the pistons; valves for closing the ports; springs normally closing the valves; a shaft rotatably mounted in the casing; an eccentric fixed thereto; a collar rotatably mounted on the eccentric; links connecting the pistons with the collar; outlet ports in the cylinder block, communicating with the cylinders; outlet valves mounted in the outlet ports; stems for controlling said valves, and means for manually actuating the stems.

1,675,439. ENVELOPE AND SEPARABLE HANDLE THEREFOR. HOWARD A. WOLF, Elkins Park, Pa., assignor to Edwin Wolf, Benjamin Wolf, Clarence Wolf, Louis Wolf, and Albert Wolf, Philadelphia, Pa., Copartners trading as Wolf Brothers. Filed Oct. 15, 1923. Serial No. 668,536. 3 Claims. (Cl. 229—68.)



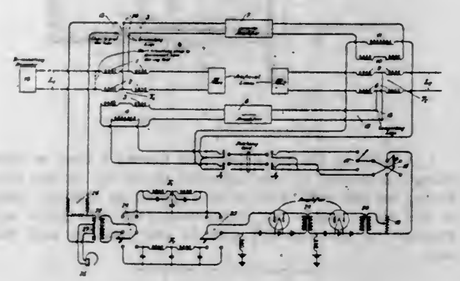
2. An envelope having two opposed walls, registering slots in said walls adjacent an edge of the envelope, said slots extending substantially parallel to said edge, and a rigid separable handle therefor comprising a head portion substantially wider than the length of the slots, a suspensory portion of greater width than the length of the slots, and an intermediate neck portion adapted to extend through the slots.

1,675,440. MECHANISM FOR ASSEMBLING MATCH STRIPS. CHARLES F. WRIGHT, Akron, Ohio, assignor to The Diamond Match Company, New York, N. Y., a Corporation of Illinois. Filed July 1, 1927. Serial No. 202,783. 7 Claims. (Cl. 144—51.)



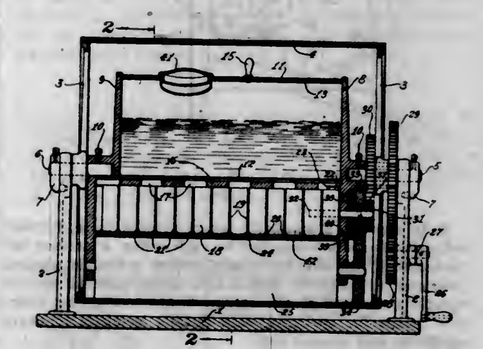
1. The combination with means for supplying match strips, and means for ejecting successive pairs of match strips therefrom, of a pendant guide element to which the match strips are delivered in a substantially horizontal position, means arranged to intercept the successive pairs of match strips, oppositely tilt the alternate pairs and direct them to a substantially vertical position for gravitation with their heads in opposite directions, and a collecting element which receives the oppositely-disposed pairs of strips.

1,675,441. MEANS FOR MEASURING BALANCE OF ELECTRICAL NETWORKS. SUMNER B. WRIGHT, South Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 26, 1927, Serial No. 171,836. Renewed Sept. 27, 1927. 12 Claims. (Cl. 179—175.)



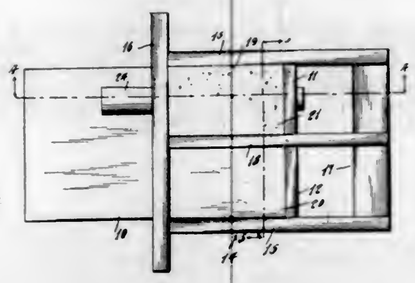
9. In a system for measuring balance between two electrical networks, the combination with a hybrid coil of a plurality of impedances connected with certain windings of the said coil, a measuring circuit having one end connected with the midpoints of the said certain windings and the other end connected with another winding of the said coil, the said circuit having an amplifier, means to adjust the gain of the said amplifier, and means to detect the occurrence of singing.

1,675,442. INKING MECHANISM. ANTHONY F. ZEITINGER, St. Louis, Mo. Filed May 7, 1927. Serial No. 189,594. 11 Claims. (Cl. 101—120.)



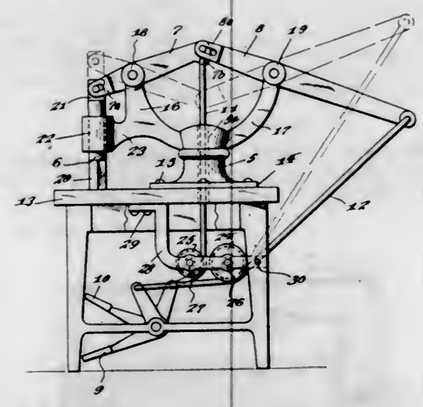
1. An inking device for duplicators, comprising, an ink reservoir, an ink distributing roller, means providing a series of ducts spaced along said roller adapted to supply ink thereto, and means joining said ducts adapted to spread the ink over said roller.

1,675,443. CONCRETE-SPREADER MOLD. EARL R. BELL, Covington, Ky., assignor of one-fourth to Arthur L. Evans and one-fourth to Russell A. Lenox, Covington, Ky. Filed June 23, 1927. Serial No. 200,896. 6 Claims. (Cl. 25—121.)



3. A mold of the class described having a base, a plate rising therefrom, a body movable relatively to the base having an end wall, side walls disposed on opposite sides of the plate, and a bar connecting said side walls and disposed on the opposite side of the plate to said end wall.

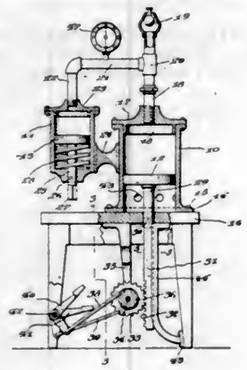
1,675,444. PRESS. FRANK BLANDO, New York, N. Y. Filed May 10, 1927. Serial No. 190,314. 3 Claims. (Cl. 41—2.)



1. In a press, a standard, levers pivoted to said standard and pivotally connected to each other, a presser bar connected to the shorter of said levers, a flexible member connected to the other end of said lever, a second flexible member connected to the other of said levers, and alternate means for operating said flexible members to lower and raise said presser bar.

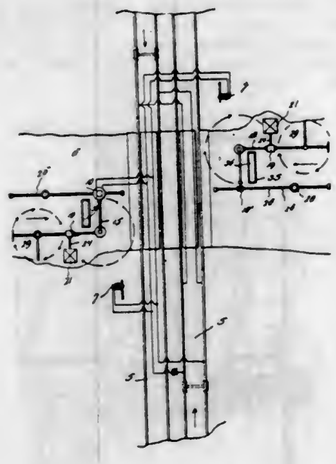
1,675,445. PRESS. FRANK BLANDO, New York, N. Y. Filed May 10, 1927. Serial No. 190,315. 3 Claims. (Cl. 41—2.)

3. In a press, a major reciprocatory member, a minor reciprocatory member responsive to the movements of said major member, cylinders confining said members, a conduit connecting said cylinders and establishing communication with the atmosphere, yieldable means associated with said minor member for restoring the same to its normal position and means for operating said major member.



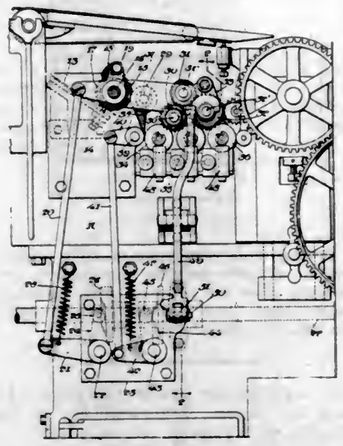
1,675,446. [WITHDRAWN.]

1,675,447. SAFETY GATE FOR RAILWAY CROSSINGS. MARION BROWN and JULIUS GREEN, National Home, Wis. Filed Mar. 30, 1927. Serial No. 179,542. 7 Claims. (Cl. 246—128.)



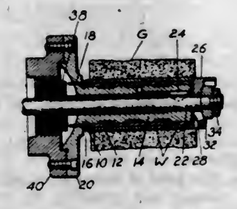
6. In a safety gate for railway crossings wherein an electric block circuit is provided within the trackway adjacent the crossing, a pair of signal semaphores at opposite sides of the crossing operable by a train passing into the block, a normally closed electrically operated gate arranged upon the roadway at opposite sides of the crossing, said electrically operating means consisting of an electric motor and a source of supply, a vehicle actuated switch complementary to each gate for closing the circuit to the motor when depressed, and means within the circuit operable by the actuation of the semaphore to prevent the completion of the circuit between the motor and source of supply even though the vehicle actuated switch is depressed.

1,675,448. INKING MECHANISM FOR PRINTING PRESSES. IRA CARSON, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed June 6, 1927. Serial No. 196,757. 3 Claims. (Cl. 101—187.)



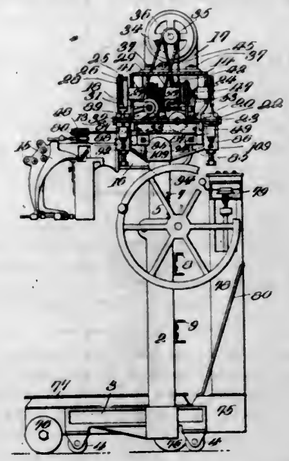
1. Inking mechanism for printing presses having a fountain with separate ink chambers and having also associated distributing and inking rolls, said distributing rolls comprising a plurality of rolls presenting uninterrupted ink-receiving surfaces, and also an intermediate roll having spaced-apart ink-receiving surfaces in peripheral contact with the surfaces of the laterally adjacent rolls, means for delivering the ink in spaced relation from the respective chambers of the fountain to the surface of one of the said adjacent rolls, and means for longitudinally reciprocating the latter roll in a path substantially equal in length to the width of the gap between the spaced ink-receiving surfaces.

1,675,449. WORK HOLDER. WILLIAM H. CHAPMAN, Montclair, N. J., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 6, 1924. Serial No. 718,313. 12 Claims. (Cl. 279—1.)



1. In apparatus of the character described, a rotary cylindrical spindle for supporting a hollow work piece, a hollow cylindrical bushing sleeved on the spindle, said bushing being slidable off and on the spindle for loading, a limit device associated with the spindle, a quick detachable member engaging the limit device and contacting with the work piece to hold the latter on the spindle, means extending through the spindle for moving the limit device away from the work, and means for sliding the bushing on the spindle; substantially as described.

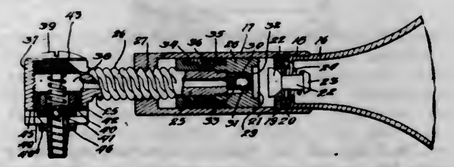
1,675,450. FILLED-BAG-SEWING MACHINE. NORMAN V. CHRISTENSEN, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 17, 1923. Serial No. 681,263. 37 Claims. (Cl. 112—11.)



1. In a filled bag sewing machine, the combination of a track, a carrier movable along the track, a sewing head mounted on the carrier, means for actuating the sewing head, and means whereby said track may be placed in a substantially horizontal position during the stitching of the bag and raised so as to incline downwardly for returning the sewing head to starting position.

35. In a filled bag sewing machine, the combination of a track, a carrier adapted to move along the track, a sewing head mounted on the carrier, a motor mounted on the carrier and movable therewith, devices including a clutch for actuating the sewing head from the motor, devices including a clutch for actuating the carrier from the motor, a control rod parallel with the tracks, means operated by said control rod for actuating said clutches, and an adjustable stop for determining the initial starting position of the sewing head.

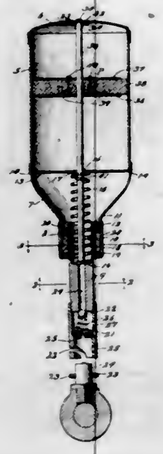
1,675,451. LUBRICANT COMPRESSOR. ERNEST W. DAVIS, Oak Park, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 30, 1924. Serial No. 710,043. 8 Claims. (Cl. 221—47.4.)



1. A lubricant compressor, comprising a barrel, a sleeve communicating with said barrel and forming a cylinder, the outer end of said sleeve being internally threaded, an outwardly opening valve controlling communication between said barrel and said sleeve, a hollow plunger rod extending through the outer end of said sleeve and ex-

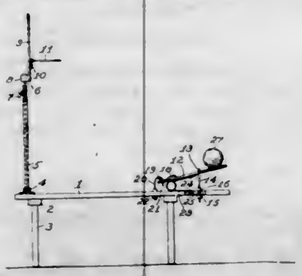
ternally threaded for co-acting with said threaded sleeve, a plunger at the inner end of said plunger rod, comprising an outwardly opening valve, and a coupling member carried by the outer end of said plunger rod for making sealed connection with a fitting by a movement substantially parallel with said plunger rod.

1,675,452. LUBRICANT COMPRESSOR. DOUGLAS F. FESLER, Chicago, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Jan. 10, 1924. Serial No. 685,357. 5 Claims. (Cl. 221—47.4.)



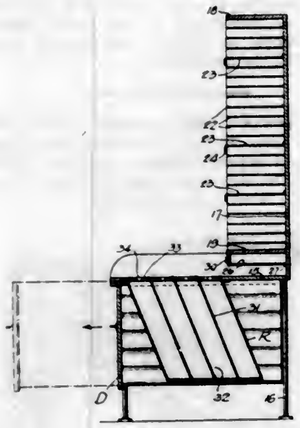
1. A lubricant compressor comprising a barrel having a cap at one end and an opening at the other end, a cylinder reciprocably mounted in said opening, a coupling member secured to the outer end of said cylinder, a spring for urging said cylinder outwardly, a valve for closing the outer end of said cylinder, a plunger supported by said cap and extending inwardly to a point adjacent the inlet end of said cylinder when said cylinder is in its outermost position, and a follower slidably mounted on said plunger rod.

1,675,453. ADJUSTABLE GAME DEVICE. ARCHIE D. FORRY, Clarksville, Iowa. Filed July 25, 1927. Serial No. 208,334. 3 Claims. (Cl. 273—107.)



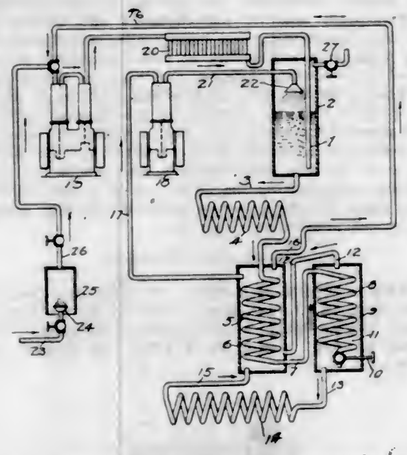
1. A device of the character described, comprising a game ball, a horizontal ring mounted at a desired altitude, a resiliently controlled propelling device for said ball mounted loosely to be freely tiltable in any direction, means for limiting the scope of movement of said device, and means for varying the said limiting device in position to variably tilt the propelling device when striking the limiting device.

1,675,454. SORTING DESK. SAMUEL A. HARRISON, Los Angeles, Calif. Filed Sept. 20, 1924. Serial No. 738,936. 4 Claims. (Cl. 312—103.)



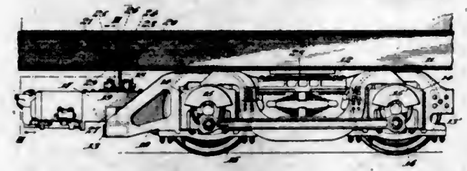
1. A sorting desk comprising a table having a top supported in elevated position, a receptacle secured to and depending from the table top and divided interiorly into compartments, and a drawer slidable beneath the table top and receiving the receptacle.

1,675,455. SYSTEM OF REFRIGERATION. PIERRE E. HAYNES, East Aurora, N. Y. Filed Jan. 16, 1924. Serial No. 686,497. 1 Claim. (Cl. 62—178.)



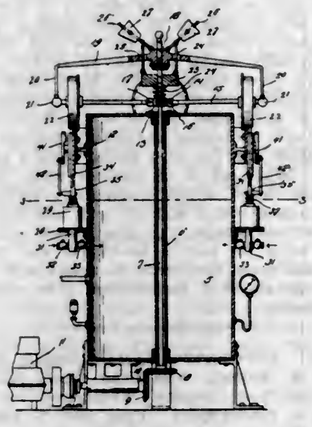
In a system of refrigeration, incorporating with a compressed gaseous refrigerative medium a normally liquid miscible non-refrigerative material capable of entering into solution with the medium and of raising the critical temperature and lowering the critical pressure of the medium, the heat of solution exceeding the heat of vaporization, cooling and reducing the pressure of the mixture whereby the gaseous medium is driven out of the solution and a super-cooled residue of the solution with a weak concentration of the refrigerative medium remains, utilizing said residue for the work of refrigeration, compressing and cooling the medium, and circulating the medium and material in a continuing cycle.

1,675,456. AUXILIARY LOCOMOTIVE SUPPORT. RICHARD J. MCCARTY, Jr., Bethlehem, Pa., assignor to Bethlehem Steel Company. Filed Aug. 16, 1926. Serial No. 129,352. 3 Claims. (Cl. 105—136.)



1. In a railroad vehicle, a center sill, a truck having an axle, and a motor frame mounted on said axle and suspended from said center sill.

1,675,457. AIR COMPRESSOR. THEODORE A. MATHEWS, Washington, Pa., assignor of forty per cent to Fred D. Johnson and W. N. Butler, trustees, Washington, Pa. Filed Feb. 8, 1927. Serial No. 166,724. 6 Claims. (Cl. 230—186.)



1. In an air compressor of the character described, a closed storage tank, a plurality of air compressor pumps arranged around the exterior of the tank and including vertical piston rods, said pumps having communication with the interior of the tank, a track supported by the tank, wheels movable upon the track, means associated with the pump pistons for engagement above the track so as to be encountered by the wheels to depress the pump piston, means for returning the piston, a drive shaft operatively connected with said wheels extending concentrically through the tank and drive means for said shaft remote from the tank.

1,675,458. AUTOMOBILE BUMPER. OLIVER R. MCDONALD, Bridgeport, Conn., assignor to American Chain Company, Inc., a Corporation of New York. Filed Oct. 16, 1926. Serial No. 141,897. 4 Claims. (Cl. 293—55.)

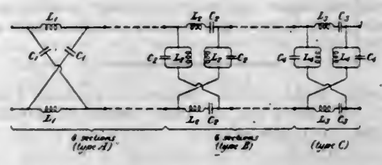


1. An automobile bumper comprising as a main element a complete loop end bumper bar, a pair of auxiliary bars having short loop ends terminating in eyes, spacing members for engagement with said main bar, and means for aligning said eyes with said spacing members.

1,675,459. PHOSPHATE REDUCER FOR BOTTOM CHROME DYEING. NEIL NEVILLE, Birmingham, Ala., assignor to Federal Phosphorus Company, Birmingham, Ala., a Corporation of Alabama. Filed Oct. 29, 1924. Serial No. 746,678. 11 Claims. (Cl. 8—13.)

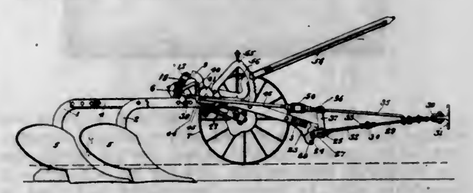
9. The method of assisting the action of the bichromate of a mordanting bath for bottom chroming which includes adding a pyro-phosphate to the chromate solution.

1,675,460. DISTORTION COMPENSATOR. HARRY NYQUIST, Millburn, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 20, 1924. Serial No. 751,146. 14 Claims. (Cl. 178—44.)



1. In combination, a transducer giving different delays for different frequencies over a certain frequency range, and a compensator to equalize the delays consisting of sections, at least one of these sections giving a maximum of delay within said frequency range.

1,675,461. HITCH DEVICE. WILLIAM L. PAUL, Berkeley, Calif., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed July 13, 1921. Serial No. 484,412. Renewed Mar. 16, 1925. 14 Claims. (Cl. 97—98.)

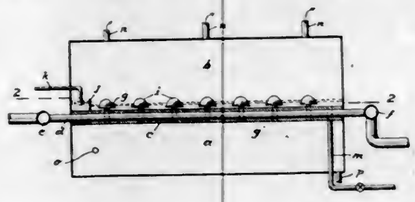


1. In a tractor plow, the combination with a crank axle and supporting wheels, of means to rock the axle to raise and lower the plow, a hitch device adapted to connect the plow with a tractor and including a draft bar pivoted to the plow for vertical swinging a standard on the rear of the hitch device, a brace extending from said standard forwardly to connection with the draft bar, a rotatable member supported on the plow, means for rotating said member by the raising or lowering of the plow, and a rod pivotally connected to said standard and having a connection wtih said member adapted to permit said rod to move longitudinally while said member remains in one position, and to hold said rod against longitudinal movement when said member is rotated to another position.

1,675,462. PROCESS OF PRODUCING HIGH-VISCOUS LUBRICATING OIL AND HIGH-GRADE ASPHALT FROM PETROLEUM. ARTHUR E. PEW, Jr., Bryn Mawr, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Dec. 22, 1926. Serial No. 156,288. 4 Claims. (Cl. 196—119.)

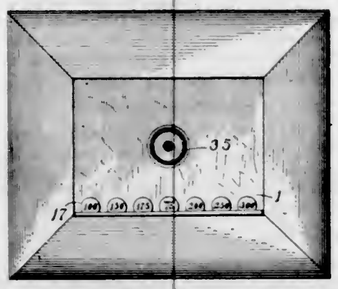
1. The process of separating the heaviest and less heavy constituents of heavy residual mineral oil which comprises subjecting a flowing shallow stream of such oil to a low absolute pressure and to a temperature above the vaporizing points of the less heavy constituents at such low pressure, and simultaneously therewith passing through the flowing stream a relatively light hydrocarbon

substantially lighter than said less heavy constituents of the heavy residual oil, thereby agitating the flowing liquid and, by relieving surface tension and by entrainment,



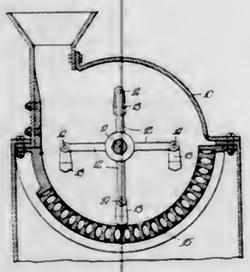
effecting maximum vaporization of said less heavy constituents, and separating the latter and said light hydrocarbon.

1,675,463. BALL GAME. WALTER S. POLLARD, Philadelphia, Pa. Filed Jan. 25, 1928. Serial No. 249,239. 6 Claims. (Cl. 273—35.)



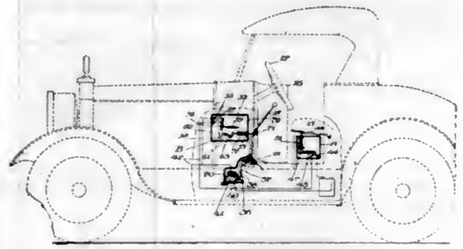
1. In a ball game, a target movably mounted and adapted to be hit by a moving ball, a pressure transmitting device actuated by said target, electric circuit closing mechanism progressively actuated by said device in accordance with the pressure transmitted, and score indicators progressively actuated by said circuit closing devices.

1,675,464. SHREDDER-TYPE PULVERIZING HAMMER. WILLIAM M. PRYOR, St. Louis, Mo., assignor to Southern Manganese Steel Company, St. Louis, Mo., a Corporation of Delaware. Filed June 10, 1927. Serial No. 197,800. 18 Claims. (Cl. 83—11.)



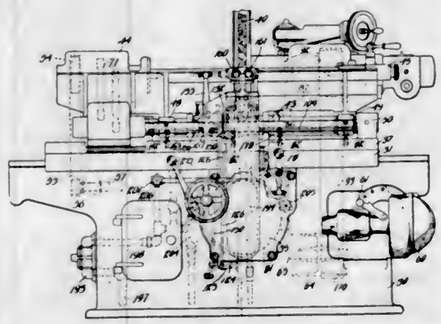
1. An article of manufacture including a series of stepped faces, slots provided in said articles between said faces, and attaching means for said article.

1,675,465. LOCKING MECHANISM FOR AUTOMOBILES. FRANK N. ROEHRICH, Jersey City, N. J., assignor to William H. Loud, Jersey City, N. J. Filed Jan. 26, 1927. Serial No. 163,643. 9 Claims. (Cl. 70—127.)



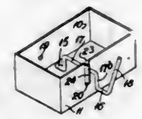
1. In motor vehicle locking mechanism, the combination of a locking member movable into locking and unlocking positons, means for urging said member normally to one position, a lock effective by key actuation to move said member to the other position, a restraining element operable to engage the said member and hold it in such second position, an electric circuit, including an electro-magnet which, when energized, moves said restraining element to releasing position, switches included in said circuit, one of said switches being open when the seat is occupied and being closed when the seat is unoccupied, and the other switch being a quick make-and-break switch which is operated when the door is opened and closed, motion transmitting devices between the first-named switch and the seat, and motion transmitting devices between the other switch and the door, whereby when the seat is unoccupied and the door is opened and closed the circuit is momentarily completed by the joint action of the switches, thus energizing the electro-magnet.

1,675,466. AUTOMATIC CAM-GRINDING MACHINE. RALPH K. ROWELL, West Palm Beach, Fla., assignor to Landis Tool Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Mar. 6, 1926. Serial No. 92,885. 14 Claims. (Cl. 51—101.)



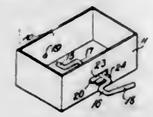
1. In a cam grinding machine, a rotary wheel, a tilting support therefor, a bracket tiltable on an axis parallel to that of the wheel, means on said bracket for supporting a camshaft, and means including a master camshaft for tilting said bracket, and means for tilting said bracket away from the grinding wheel, substantially as set forth.

1,675,467. INCLOSED ELECTRIC SWITCH AND METHOD OF ASSEMBLING THE SAME. JOSEPH SACHS, Hartford, Conn. Original application filed Jan. 28, 1922, Serial No. 532,450. Divided and this application filed Aug. 23, 1926. Serial No. 131,041. 7 Claims. (Cl. 200—162.)



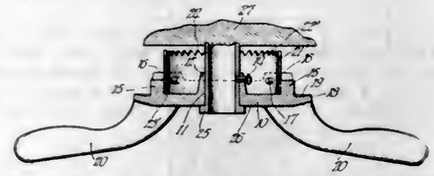
7. The herein described method of assembling an electric switch inclosing casing and a single piece switch operating spindle comprising two aligned pivot sections with a crank section between them and also comprising a handle at the end of one of the said pivot sections, the said method comprising initially forming the casing with aligned bearing apertures in its opposite side walls for receiving and approximately fitting the respective pivot sections of the spindle and with a slot in one of the side walls communicating with the corresponding bearing aperture and formed by slitting the side wall and bending a portion of the metal thereof to form a projecting lip, then moving the spindle through the slot into its operative position with the pivot sections thereof fitting the respective bearing apertures and with the handle on the exterior of the casing adjacent the slotted side wall, and finally when the spindle is in position bending the said lip to return it to the plane of the corresponding side wall so as to close the slot and hold the corresponding pivot section in place in its bearing aperture, the said lip cooperating with the other parts of the side walls to engage the crank section and thereby prevent endwise movement of the spindle.

1,675,468. INCLOSED ELECTRIC SWITCH AND METHOD OF ASSEMBLING THE SAME. JOSEPH SACHS, Hartford, Conn. Original application filed Jan. 28, 1922, Serial No. 532,450. Divided and this application filed Aug. 23, 1926. Serial No. 131,042. 4 Claims. (Cl. 200—162.)



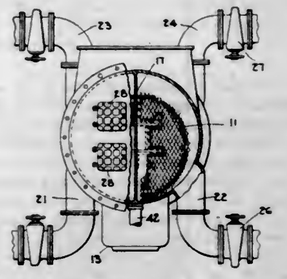
1. The combination with a switch comprising stationary contacts and an associated movable member, of a single piece switch operating spindle comprising two aligned pivot sections with an off-set crank section between them operatively connected with the movable switch member and also comprising a handle at the end of one of the said pivot sections, an inclosing casing for the said switch having its opposite side walls closely adjacent the ends of the said crank section of the spindle and having in the respective side walls aligned bearing apertures for receiving and approximately fitting the respective pivot sections of the spindle, the said casing also initially having in one of its side walls a narrow slot communicating with the corresponding bearing aperture and closed at both ends, the said slot having a width and a length sufficient to permit the said spindle to be moved endwise and in substantial parallelism through the slot into its operative position with the pivot sections thereof fitting the respective bearing apertures and with the handle on the exterior of the casing adjacent the slotted side wall, and a closure associated with the casing for closing the said slot and for holding the corresponding pivot section in place in its bearing aperture, the said closure cooperating with the crank section and thereby prevent endwise movement of the spindle.

1,675,469. DRILL OR CUTTER. JOHN A. SCHREINER, Chicago, Ill., assignor, by mesne assignments, to Paul W. Koch & Company, Chicago, Ill., a Corporation of Illinois. Filed July 20, 1925. Serial No. 44,861. 1 Claim. (Cl. 77—69.)



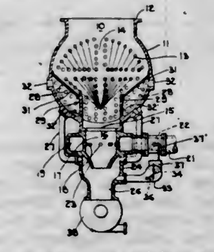
In a device of the character described, a body portion having guiding means centrally thereof, an annular cutter concentric with said guiding means extending from one face thereof and handles extending from the other face thereof, said body portion having an annular concave ledge outwardly of said cutter.

1,675,470. CONDENSER. JOHN H. SMITH, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 30, 1926. Serial No. 145,198. 13 Claims. (Cl. 257—33.)



1. In a surface condenser, a tube nest, a water box having a partition therein dividing it into sections each controlling the flow of cooling water through a portion of the tube nest, an air offtake having partition means therein forming compartments communicating with the portions of the tube nest, means for shutting off the flow of water through any one of the sections in the water box, means for shutting off the flow of air and non-condensable vapors through any one of the compartments, and baffle means for directing condensable vaports through a cooled portion of the tube nest when the flow of water and air through another portion is shut off.

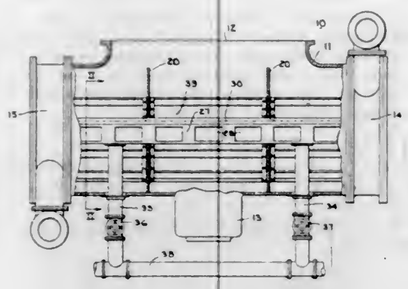
1,675,471. HEAT-BALANCE CONDENSER PLANT. JOHN H. SMITH, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 30, 1926. Serial No. 145,199. 17 Claims. (Cl. 257—24.)



1. In a power system requiring a relatively large quantity of boiler feed water, the combination of a plu-

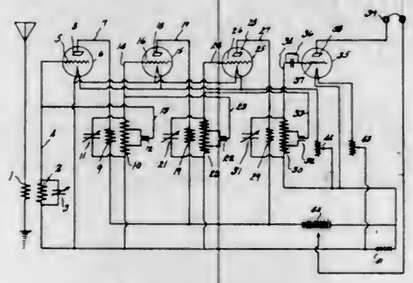
rality of steam condensers connected in series, one of said condensers being of the contact type, and means for utilizing make-up feed water as a cooling medium in the contact condenser, whereby a relatively large quantity of heated water is made available for boiler feed purposes.

1,675,472. SURFACE CONDENSER. DAVID W. R. MORGAN, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 24, 1927. Serial No. 170,607. 10 Claims. (Cl. 257—33.)



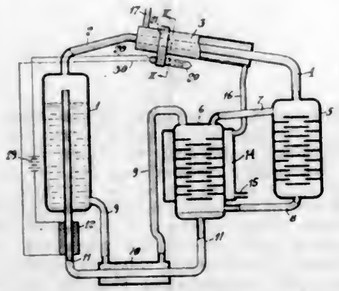
1. In a condenser comprising a shell, a nest of tubes within the shell, and separate controllable means for directing cooling media through respective portions of the nest, the combination of separate controllable means for removing air and non-condensable gases from the respective portions of the nest, and directing means extending longitudinally of the nest and between said respective portions of the nest for preventing condensable gases from by-passing from one of said respective portions of the nest directly to said means for removing air and non-condensable gases from another of said respective portions of the nest.

1,675,473. RADIO RECEIVING CIRCUITS. CHRIS L. VOLZ, Detroit, Mich. Filed Sept. 22, 1926. Serial No. 137,024. 3 Claims. (Cl. 179—171.)



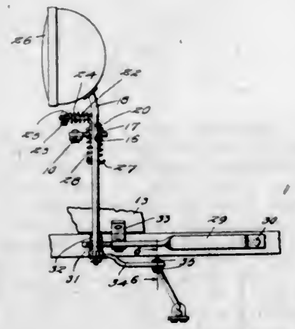
1. A radio receiving circuit comprising a series of stages of radio frequency amplification, each stage including a vacuum tube and a radio frequency transformer connecting the stages, a three-plate fixed condenser connected across several of the turns of the secondary of each radio frequency transformer, the central plate of each fixed condenser being connected to the input circuit of the preceding stage.

1,675,474. REFRIGERATOR OF THE ABSORPTION TYPE. BALTZAR CARL VON PLATEN and CARL GEORG MUNTERS, Stockholm, Sweden, assignors, by mesne assignments, to Electrolux Servel Corporation, a Corporation of Delaware. Filed Oct. 2, 1925, Serial No. 60,088, and in Sweden Sept. 15, 1925. 3 Claims. (Cl. 62—119.)



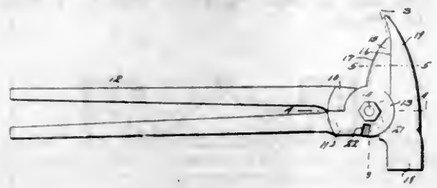
1. A refrigerating system comprising a generator, an evaporator, heat rejecting means including an element continuously supplied with both a hot fluid and a cold fluid in normal operation, a source of heat for said generator arranged to continuously supply heat thereto, a thermostat responsive to a temperature resultant of the supply of hot and cold fluids to said element and means responsive to said thermostat to control the supply of heat to said generator, said thermostat being operative to interrupt the supply of heat to the generator upon an increase of temperature to a high value due to cessation of supply of cold fluid to said element and being inactive during normal operation.

1,675,475. DIRIGIBLE HEADLIGHT. JOHN D. WELNORN, Clayton, Ga. Filed Oct. 23, 1926. Serial No. 143,743. 1 Claim. (Cl. 240—62.)



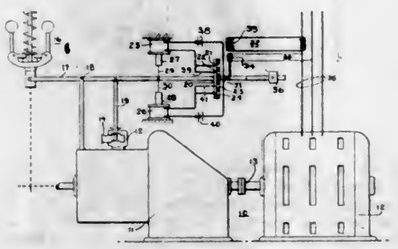
In combination with a vehicle having the usual steering mechanism including a connecting rod moving transversely of the vehicle during steering operations, a pair of vertically rotatable standards mounted for rotation adjacent opposite sides of the vehicle, headlights carried thereby, arms projecting forwardly from the standards, a link connecting the arms, an arm secured to the lower end of one of the standards, a bar connected at one end with the connecting rod of the steering mechanism of the vehicle and engaged with the arm at a point spaced from the end thereof and a spring seat carried by the bar and with which is engaged one end of a spring, the opposite end of said spring engaging the last named arm at opposite sides of the pivotal connection of the bar thereto whereby said spring tends to maintain said arm in one position with relation to the bar.

1,675,476. COMBINATION TOOL. WILLIAM JAMES WEST, Alder, Wash. Filed Mar. 26, 1927. Serial No. 178,761. 4 Claims. (Cl. 7—3.)



1. A tool of the character described including crossed shanks having handles and pivoted to each other, one of the shanks being provided with an outwardly projecting jaw flat on its inner face, and the other shank being formed with an outwardly projecting jaw having a flat inner face bearing against the first-named jaw but projecting longitudinally beyond the same and having a pointed rounded extremity, the opposite end of the jaw being formed with a head whereby the rounded extremity may be driven beneath a staple for the purpose of extraction.

1,675,477. GOVERNOR. JOSEPH BANCROFT WILSON, Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 19, 1925. Serial No. 70,171. 11 Claims. (Cl. 290—40.)

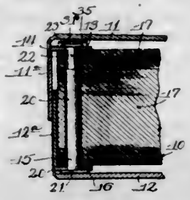


1. The combination with a turbo-generator set having a fluid-admitting valve and a speed controlled governing device for the actuation of said valve, said governing device maintaining the fluid admission substantially as a function of the speed of the turbine, of mechanism responsive to changes in a predetermined variable in the load conditions on the generator and effective to temporarily supersede said governing device in the control of said valve upon relatively rapid changes in said variable.

1,675,478. DYESTUFF INTERMEDIATES. FRITZ BALLAUF, FRIEDRICH MUTH, and ALBERT SCHMELZER, Elberfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Filed Jan. 16, 1925, Serial No. 2,926, and in Germany Jan. 24, 1924. 6 Claims. (Cl. 260—46.)

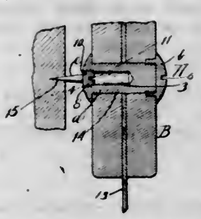
3. As new products the carbazoloic-acid-arylid-indophenols which are substantially identical with products obtainable by reacting aromatic amino bodies with carbazol-carboxylic acids and condensing the carbazoloic-acid-arylids so obtained with nitrosophenols which carbazoloic-acid-arylid-indophenols are reddish-blue to blue powders, soluble in concentrated sulfuric acid with from reddish-blue to blue color and being reduced in alkaline solution with sodium sulfide or hydrosulfide to the corresponding leuco compounds.

1,675,479. BINDER POST. ARTHUR M. BARRETT, Chicago, Ill. Filed June 1, 1926. Serial No. 112,782. 7 Claims. (Cl. 129—13.)



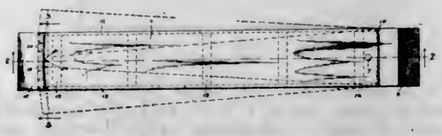
1. A binding post consisting of two parts detachable by expanding and contracting one of said parts within the other, the expanding part having a flanged portion at one end thereof, an expanding pin operatively disposed within said part and provided with a head projecting above said flanged portion, and an enlarged part spaced vertically below said head, and a securing piece interposed between said flanged portion and said head, said piece having a restricted opening permitting limited vertical movement of said pin.

1,675,480. SAW. WILLIAM H. BATH, Torrance, Calif. Filed Mar. 31, 1926. Serial No. 98,714. 2 Claims. (Cl. 145—35.)



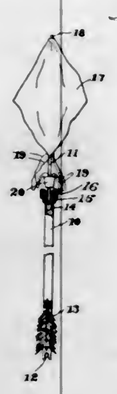
1. The combination with a saw and the handle member thereof, of an impaling device adapted to be screw-threaded within said handle and whereby the impalling device may be totally enclosed within said saw handle or may be projected from said saw handle for engagement with an object.

1,675,481. MOTOR-VEHICLE-WHEEL GAUGE. CLAUDE C. BENNETT, Seattle, Wash., assignor to A. E. Feragen, Inc., Seattle, Wash. Filed Sept. 23, 1926. Serial No. 137,227. 1 Claim. (Cl. 33—203.)



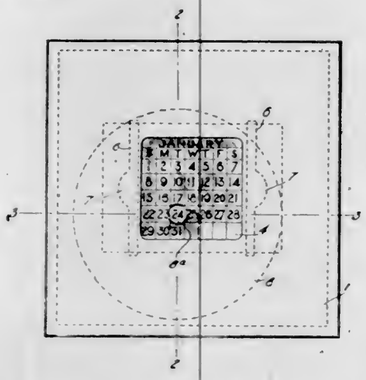
A vehicle wheel gauge comprising an elongated base, a runner board pivotally mounted at one end of said base, resilient means for normally retaining said runner board in a predetermined position with respect to said base, and anti-friction means disposed between said base and runner board, said anti-friction means comprising a casing, a plurality of balls in said casing, spacers disposed between said balls, and springs disposed between the ends of said casing and the adjacent ball.

1,675,482. TOY. JOHN F. BOYET, Covington, Ky., assignor of one-half to Walter W. Burns, Washington, D. C. Filed Nov. 29, 1921, Serial No. 518,578. Renewed May 25, 1927. 4 Claims. (Cl. 46—52.)



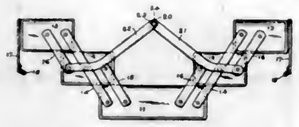
4. An arrow comprising a two part shaft having upper and lower parts, a parachute having its body portion surrounding the upper part of the shaft and having its periphery secured therebelow to the upper part of the shaft, the upper part of the shaft being so constructed as to be heavier at its lower end than at its upper end, a detachable connection between the two shaft parts and a guiding device at the lower end of the lower part, the connection being such as to readily permit the two parts of the shaft to separate upon the sprending of the parachute at the beginning of the descent.

1,675,483. CALENDAR. WILLIAM JOHN BROOKS, Letchworth, England. Filed July 5, 1927, Serial No. 203,591, and in Great Britain Jan. 8, 1927. 6 Claims. (Cl. 40—110.)



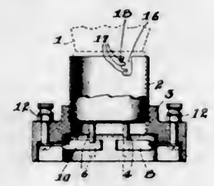
6. A calendar and like display device comprising a shallow casing having a front wall with a centrally located opening for the exposure of a card bearing matter to be displayed and a rear wall between which and the front wall the card is adapted to be accommodated, a transparent disc of a greater area than the said opening for covering substantially the whole of the exposed area of the displayed card, said transparent disc being frictionally held between the front of the said displayed card and the front wall of the casing solely by the pressure exerted upon it due to the compression between front and rear walls, and being capable of such movement within the casing, in any direction in its own plane, that a fixed central distinguishing mark upon it can be aligned with any portion of the displayed matter on the card, and accommodation within the casing for the disc around the entire periphery of the front wall opening.

1,675,484. TOOL BOX. JOHN E. COE, Jamestown, N. Y. Filed Aug. 28, 1926. Serial No. 132,175. 6 Claims. (Cl. 206—16.)



1. A tool box, having a handle, a plurality of trays arranged one above another so that when the tool box is closed each tray rests on the one below, means for so connecting said handle to certain of said trays that downward pressure on said handle will cause certain of said trays to shift laterally and thus open said box.

1,675,485. VACUUM-TUBE CONTACT DEVICE. JOHN C. FARLEY, Opelika, Ala. Filed Oct. 13, 1926. Serial No. 141,327. 3 Claims. (Cl. 173—328.)

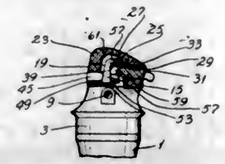


1. In a vacuum tube contact device, a socket for the tube, a base member for the socket, contact pins extending in fixed relationship from the tube, contact strips suitably attached to the base member, a notched portion in the base member, means for adjusting the contact between the pins and contact strips consisting of a suitably formed slot in the socket adapted to cooperate with a lug portion extending from the tube, the contact strips being formed to contact with the pin elements at the sides thereof, contact strips being formed of suitable material and bent into an approximate V shape, one end of which is suitably connected to the base member, while the other end is adapted to be received in free relationship in the notched portion of the base member, thereby functioning to provide a resilient contact strip member of high efficiency.

1,675,486. FORM OF TUNGSTEN AND METHOD OF PRODUCING THE SAME. COLIN G. FINK, Yonkers, N. Y. Filed Jan. 16, 1924. Serial No. 686,628. 3 Claims. (Cl. 75—17.)

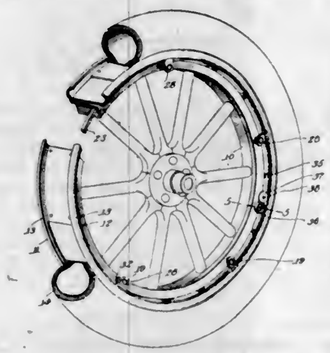
1. The process of preparing tungsten bodies containing tungsten crystals in part, which comprises incorporating in a slug of tungsten material a relatively small amount of a substance having a high affinity for hydrogen at relatively elevated temperatures and capable of reacting with intercrystalline impurities, and then heat-treating said slug in hydrogen to produce the reaction whereby the intercrystalline impurities are removed.

1,675,487. RAZOR. HERMAN I. GAHAGAN and WILLIAM P. ARON, Dallas, Tex., assignors, by mesne assignments, to The Whisk Razor Corporation, Buffalo, N. Y., a Corporation of New York. Filed Mar. 7, 1927. Serial No. 173,465. 3 Claims. (Cl. 30—12.)



1. The razor comprising a blade member, a handle and a head thereon for holding said blade, an armature adapted to be vibrated by means within the handle, said armature having a finger thereon which in normal position engages an opening unsymmetrically located in the blade member, a recess in said finger, the armature being manually movable to a sprung position wherein the recess and the blade member align, thereby permitting release of the blade and replacement thereof in its other position beneath said finger of the sprung armature, whereby upon manually releasing said armature said blade is non-reciprocally held in said head by the reaction of said finger of the spring armature.

1,675,488. VEHICLE WHEEL RIM. HYMAN S. GOODKOWITZ, Suffolk, Va. Filed Apr. 7, 1926. Serial No. 100,436. 7 Claims. (Cl. 152—21.)



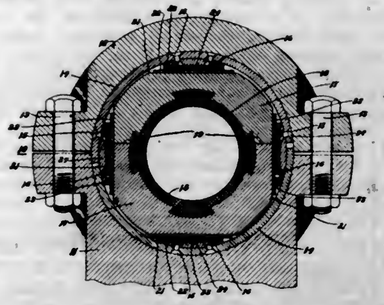
1. In combination with a vehicle wheel, a rim divided circumferentially to provide an inner relatively stationary section and an outer section, circumferentially spaced axially movable locking bolts associated with the sections to lock the sections in tire engaging position or to release the tire, pinions mounted upon the bolts to actuate said bolts and means common to all of the pinions to simultaneously actuate the latter.

1,675,489. MANDREL. MARTIN B. GROUT, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 23, 1924. Serial No. 694,561. 17 Claims. (Cl. 242—72.)



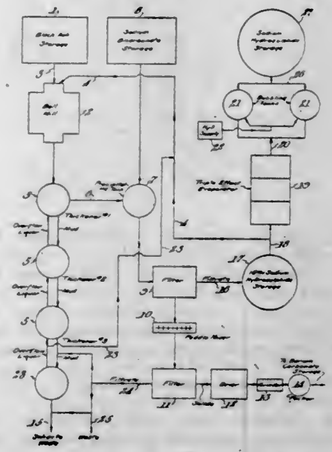
1. In a mandrel of the character described comprising a core and arcuate shaped sectional shell members extending longitudinally thereof, longitudinal slots in said core and means secured to said sectional shell members and in said slots, said means comprising members having inclined faces adapted to engage each other for slidably supporting said sectional shell members on said core to form a unitary cylindrical structure, a spring for maintaining said shell members in their normal positions, and means for placing said spring under compression and thereby sliding said shell members.

1,675,490. ADJUSTABLE BEARING. HERBERT T. HERR, Merion, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 7, 1921. Serial No. 513,467. 7 Claims. (Cl. 308—58.)



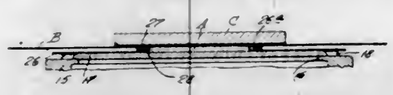
1. In a shaft bearing in which a bearing block is mounted in a housing, in combination, means comprising opposed shim nests for adjusting the block axis relatively to the frame axis including opposed parallel guide faces on the outer surface of the block, and plates adapted to slide on the guide faces and to transmit radial pressure from the shim nests to said guide faces whereby the angular relation between the said axes is maintained during the adjustment.

1,675,491. PROCESS OF MAKING SODIUM HYDROSULPHIDE. HENRY HOWARD, Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 20, 1925. Serial No. 44,913. 5 Claims. (Cl. 23—134.)



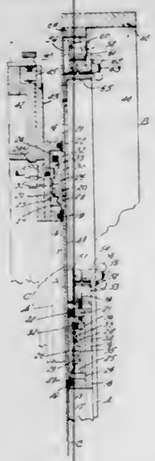
1. Process of making an alkali metal hydrosulphide which comprises dissolving an alkaline earth metal sulfid in a solution containing an alkali metal hydrosulphide and treating the resulting solution with an alkali metal bicarbonate.

1,675,492. VACUUM PRESSURE DEVICE AND MASK. WILLIAM C. HUEBNER, Buffalo, N. Y., assignor to Huebner-Bleistein Patents Company, Buffalo, N. Y. Filed Feb. 5, 1923. Serial No. 616,938. 16 Claims. (Cl. 95—76.)



16. In a vacuum device for pressing a printing element and an opposing element into uniform close contact, the combination of a transparent support on the face of which said printing element is supported facing said opposing element, said support being imperforate in the area thereof covered by said printing element, a device which is adapted to contact with said support and said opposing element and form an air tight closure around the periphery of said printing element for the space between said support and said opposing element within which said printing element is located, and means for withdrawing air from the space closed by said device.

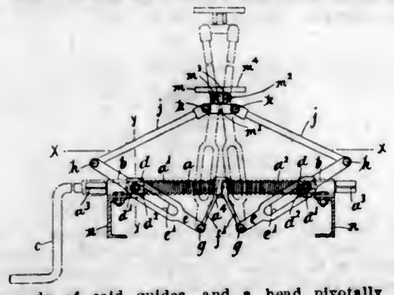
1,675,493. HOLDING AND SUPPORTING DEVICE FOR PRINTING OR PRINT-RECEIVING ELEMENTS OR THE LIKE. WILLIAM C. HUEBNER, Buffalo, N. Y., assignor to Huebner-Bleistein Patents Company, Buffalo, N. Y. Filed Nov. 8, 1924. Serial No. 748,594. 22 Claims. (Cl. 95—76.)



1. In a printing apparatus, the combination of a support including a metal plate having an aperture therein, sheet holding means mounted on said support at one face of said plate and including holding parts extending into said aperture in position to hold a flexible sheet so as to extend across said aperture with its face substantially coplanar with the opposite face of said metal plate.

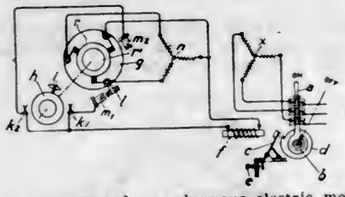
1,675,494. SCREW AND NUT GEARING. WILLIAM JENNINGS and GEORGE JENNINGS, Morpeth, England. Filed Jan. 5, 1927, Serial No. 159,156, and in Great Britain Dec. 10, 1926. 2 Claims. (Cl. 74—5.)

1. Screw-and-nut gearing comprising a right- and left-hand threaded spindle, bearings for said spindle, means for supporting said bearings, nuts on the threaded portions of said spindle, guides co-acting with said nuts, a sleeve on said spindle centrally of its threaded portions, arms on said sleeve, the ends of said guides being pivoted to said arms, links pivoted at one end to the



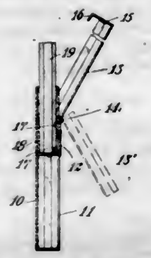
other ends of said guides, and a head pivotally connected to the other ends of said links, said guides and links together forming a closed four-sided link-work.

1,675,495. PROTECTIVE DEVICE FOR COMPENSATED ASYNCHRONOUS MOTORS. FRIEDRICH KADE, Kiel, Germany, assignor to Deutsche Werke Kiel Aktiengesellschaft, Kiel, Germany, a Corporation of Germany. Filed Mar. 11, 1925, Serial No. 14,753, and in Germany Mar. 12, 1924. 5 Claims. (Cl. 172—280.)



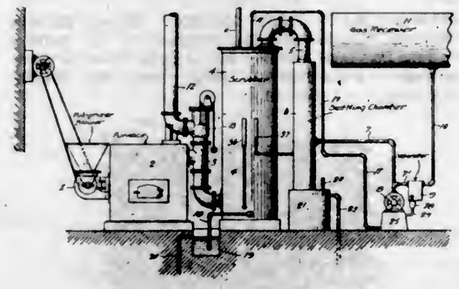
1. In a compensated asynchronous electric motor, the combination with brushes, adapted to be displaced by hand in accordance with the direction of rotation of the motor, of a switching member controlling the connections of the motor with the mains, and means adapted to automatically operate said switching member to break the connections of said motor with its external circuit when the brushes are not in the correct position corresponding to the direction of rotation of the motor at the time the motor circuit is closed by said switching member.

1,675,496. COSMETIC-STICK HOLDER. NATHAN KASDAN, Bronx, and DANIEL POLLACK, Brooklyn, N. Y., assignors to Majestic Metal Specialties, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 16, 1927. Serial No. 240,440. 3 Claims. (Cl. 206—56.)



1. In a cosmetic stick container, in combination, a casing having a longitudinal opening therein, a slidable member exterior of the casing, a cover member hingedly attached to the slidable member, a slidable cosmetic stick carrier within the casing, and means within the casing opening connecting said slidable member with said carrier.

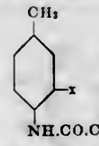
1,675,497. PROCESS FOR PRODUCING CARBON-DIOXIDE GAS. FREDERICK H. KELLIHER, Cleveland, Ohio. Filed June 19, 1926. Serial No. 117,032. 10 Claims. (Cl. 23—150.)



1. The process of producing a gas containing carbon dioxide which consists in burning a finely divided carbonaceous material in a closed furnace in the presence of sufficient air to insure substantially complete combustion without producing carbon monoxide, operating a water piston suction pump to withdraw the products of combustion from the furnace through a scrubber and a settling chamber and to deliver the gas so obtained through a separator to a gas receiving tank, and returning to the upper part of the scrubber the water which is removed from the gas in the separator.

1,675,498. SULPHUR DYESTUFF. ERWIN KRAMER, Cologne-Deutz, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 3, 1927, Serial No. 210,460, and in Germany Aug. 17, 1926. 4 Claims. (Cl. 260—24.)

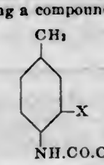
1. As new products the sulphur dyestuffs which are obtainable by heating a compound of the general formula:



wherein x stands for a nitro- or an amino-group at an elevated temperature with sulphur in the presence of about 2–8 mols benzidine and which dye cotton from baths containing sodium sulphide orange-brown shades passing on steaming or acidifying into bright clear orange shades.

1,675,499. SULPHUR DYESTUFF DYEING COTTON YELLOW. ERWIN KRAMER, Cologne-Deutz, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 3, 1927, Serial No. 210,461, and in Germany Aug. 17, 1926. 4 Claims. (Cl. 260—24.)

1. As new products the sulphur dyestuffs which are obtainable by heating a compound of the general formula:



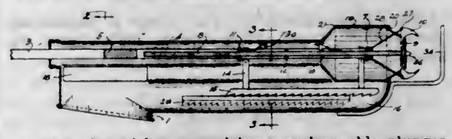
wherein X stands for a nitro- or an amino-group at an elevated temperature with sulphur in the presence of 2–8 mols benzidine and which dye cotton from baths containing sodium sulphide yellowish brown shades passing on steaming, drying or acidifying into clear greenish yellow.

1,675,500. PHARMACEUTICAL COMPOUND. WALTER KROPP, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Filed Sept. 17, 1925, Serial No. 57,026, and in Germany Dec. 12, 1924. 2 Claims. (Cl. 260—124.)

1. The herein-described new hydroxyalkylamides of orthohydroxyarylcarboxylic acids having most probably the formula:

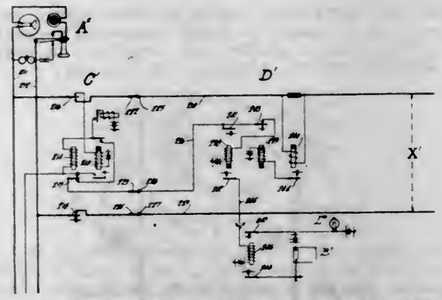
wherein R stands for an aryl and R_1 for an alkylene with more than one carbon atom, which are generally whitish crystalline compounds being soluble with difficulty in water and being valuable antirheumatics and antineuralgics, substantially as described.

1,675,501. COTTON-PICKING DEVICE. NICHOLAS LEHMAN, Birmingham, Ala. Filed May 22, 1925. Serial No. 32,223. 8 Claims. (Cl. 56—37.)



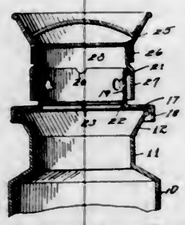
1. A cotton picker comprising a reciprocable plunger, a housing for guiding said plunger, grab means reciprocable with the plunger, automatic means to disengage the grab means from the plunger at an intermediate point in its travel in each direction, and co-acting means responsive to resultant relative movement between the plunger and grab means to cause the latter to engage and release cotton.

1,675,502. TELEPHONE SYSTEM. CLARENCE E. LOMAX, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Jan. 27, 1922. Serial No. 532,063. 9 Claims. (Cl. 179—27.)



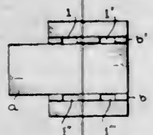
1. In a telephone system, an automatic trunk selecting switch having movable contacts, trunk lines accessible to said switch and terminating in fixed contacts, means for operating said switch to select and connect with an idle trunk, a locking circuit for holding said switch in operated position including a movable switch contact and affixed contact associated with the selected trunk, means operable over a non-talking conductor of said trunk for closing said locking circuit, a holding circuit for said switch closed after said locking circuit, and means for opening said locking circuit when the holding circuit is closed.

1,675,503. VENTILATING ATTACHMENT FOR MILK-CAN COVERS. WALLACE MCCALLUM, Minburn, Iowa. Filed Aug. 4, 1926. Serial No. 127,038. 5 Claims. (Cl. 220—44.)



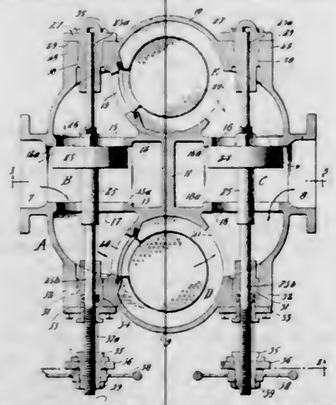
1. A ventilating attachment for milk cans comprising a flat annular body member having its outer edge provided with a downwardly extending flange and its inner edge provided with an upwardly extending flange, the upper edge of which is provided with an outwardly extending portion, the last said flange having its upper edge provided with a series of notches and its body portion provided with openings located substantially midway between its lower and upper edges, and a screen mounted within said upwardly extending flange perpendicular to its vertical axis.

1,675,504. RAIL-CHAIR PLATE. JOHN E. MCMULLEN, Council Bluffs, Iowa. Filed Sept. 9, 1927. Serial No. 218,496. 1 Claim. (Cl. 238—210.)



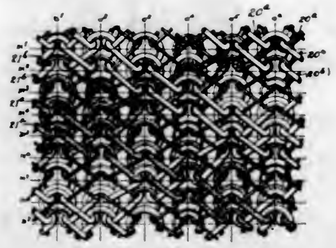
In a railroad rail chair, a flat rail plate having longitudinal ribs running its entire length, an extension portion, a rail joint adapted to be used with said railroad chair plate, the said chair plate having holes in the said ribs adapted to receive side flanges upon the rail joint and spikes through the said holes adapted to spike and hold the side flanges on the said rail joints in place where the said holes pass through the said ribs, the distance between the said ribs being sufficient to receive the said rail plate.

1,675,505. STRAINER. DANIEL RAYMOND MCNEAL, Palmyra, N. J., assignor to Andale Engineering Company, a Corporation of Pennsylvania. Filed Feb. 13, 1924. Serial No. 692,488. 3 Claims. (Cl. 210—168.)



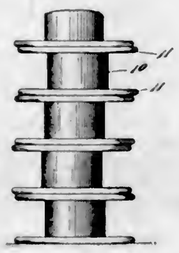
1. In a strainer, a strainer body having a valve chamber, a valve, a valve stem carrying the valve intermediate the ends of the stem, a pair of bearing members for the ends of the stem interchangeably carried on the body whereby the stem may be reversed end for end, and means for manually shifting said valve into one position or another.

1,675,506. WARP KNIT FABRIC. ERNST RICHARD MEINIG, Wyomissing, Pa., assignor to E. Richard Meinig Co., Inc., Reading, Pa., a Corporation of Pennsylvania. Filed Dec. 10, 1924. Serial No. 754,901. 6 Claims. (Cl. 66—86.)



6. The method of producing a crepe fabric on a traverse warp knitting machine having single row of needles and two reversely traversed rows of warps engaged thereby, which consists in arranging the warps in alternating pairs of thick and thin threads, traversing the same so as to lap over each separate needle, engaging like pairs of warps of the respective rows on the same pairs of needles to form alternate pairs of thick and thin stitches, and alternating said loop pairs in successive courses to form uniformly spaced thick and thin fabric.

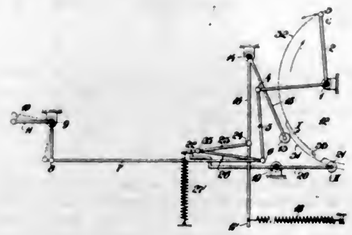
1,675,507. REEL. FRANK MOSSBERG, Attleboro, Mass., assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass., a Corporation of Massachusetts. Filed Mar. 12, 1927. Serial No. 174,851. 10 Claims. (Cl. 242—123.)



1. A sheet metal reel comprising a body having a head at each end, each of said heads having its periphery outwardly deflected to stiffen the same, and separate members attached to said heads adjacent and inwardly of the periphery thereof and of a dimension to present a portion in substantially the same plane as the edge of said deflected periphery whereby the reels may be stacked vertically end-to-end with their axes in staggered relation without tumbling.

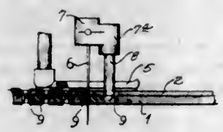
1,675,508. BUTTONHOLE-SEWING MACHINE. GEORG MÜLLER, Berlin-Adlershof, Germany. Filed July 20, 1927, Serial No. 207,218, and in Germany Feb. 25, 1924. 1 Claim. (Cl. 112—158.)

A button-hole sewing machine of that type in which the fabric is moved to and fro in the longitudinal direction of the slit to be turned into a button-hole by being bordered at its two edges or rims, and in which first one edge or rim is bordered, then the barring stitches at one end of the button-hole are made, then the other edge or rim is bordered, and finally the barring stitches at the other end of the button-hole are made, comprising, in combination, a bell-crank lever (11) adapted to actuate the needle guide, a rod (7) rocking this lever, another bell-crank lever (2) moving said rod, means for rocking this bell-crank lever, a cam-disk having a long cam (31) and two short ones (33, 34) two rigidly connected arms



(15, 16) rocked by said long cam, a third arm (23) hinged to one (16) of said two arms and extending in the direction to the first-mentioned bell-crank lever, a link (26) connecting said third arm (23) with the joint between the second bell-crank lever (2) and the rod connecting this lever with the first bell-crank lever, a double-armed lever (20) rocked alternately by said short cams and extending with its free end below the end of the said third arm (23), and means for keeping the members actuated by the said cams in contact with them and with the disk bearing them, for the purpose set forth.

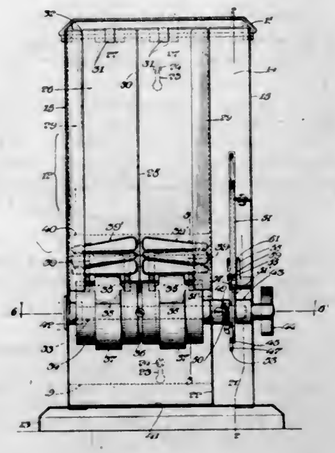
1,675,509. RING BOOK AND METHOD OF ASSEMBLY. GEORGE WASHINGTON NEWMAN, Chicago, Ill., assignor to Wilson-Jones Loose Leaf Company, a Corporation of Massachusetts. Filed May 31, 1924. Serial No. 716,889. Renewed June 10, 1925. 3 Claims. (Cl. 129—24.)



1. In a ring book structure, a cover having a scarfed portion extending interiorly of the center line, a metal plate having a series of apertures struck therein with the struck out metal embedded in said cover and stitches extending through said apertures for securing said plate to said cover.

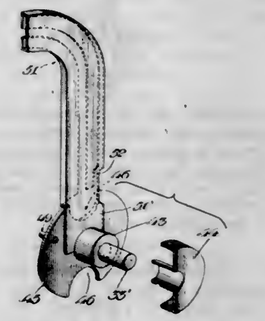
1,675,510. VENDING MACHINE. JOHN R. NOLAN, New York, N. Y. Filed Apr. 8, 1924. Serial No. 704,922. 6 Claims. (Cl. 312—63.)

1. In a vending machine, the combination with a magazine adapted to contain a column of articles to be vended, of a delivery element mounted to rotate below the magazine, and support the lowermost article and the entire column, said element comprising a generally cylindrical body having a peripheral projection affording an impelling shoulder and extending through an arc eccentric to the axis of the delivery element, which arc merges with the periphery of the body, a portion of such periphery



in advance of the projection affording a supporting surface for the entire column preparatory to the delivery operation.

1,675,511. COIN-CONTROLLED MECHANISM FOR VENDING MACHINES. JOHN R. NOLAN, New York, N. Y. Original application filed Apr. 8, 1924, Serial No. 704,922. Divided and this application filed Apr. 23, 1925, Serial No. 25,215. Renewed Nov. 2, 1927. 3 Claims. (Cl. 194—63.)

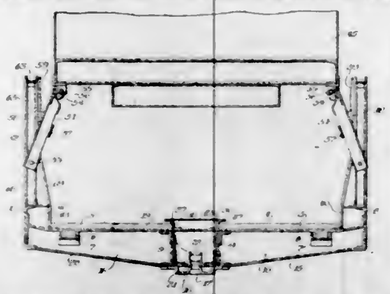


3. In a coin-controlled mechanism for vending machines, a rotary operating element including a socketed coin receiver, a coin chute leading to the coin receiver, and inter-engaging means between the coin rceiver and the coin chute for preventing lateral displacement of the one relative to the other.

1,675,512. MEANS FOR TRANSPORTING GOODS. HAROLD A. OTIS, Chicago, Ill., assignor to Chicago North Shore & Milwaukee Railroad Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 31, 1926. Serial No. 98,746. 16 Claims. (Cl. 105—159.)

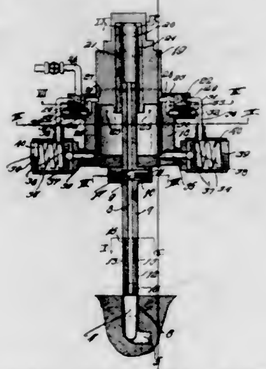
2. In combination, a first vehicle having supporting wheels, a second vehicle having a compartment for goods

to be shipped in less than carload lots, said second vehicle being loaded upon the first vehicle, pivoted struts mounted on the first vehicle for engagement with the



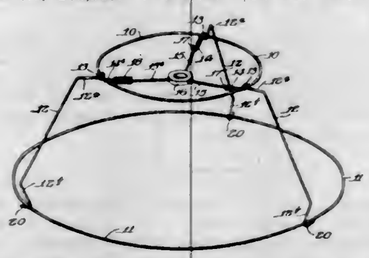
compartment, and winches on said first vehicle, said winches having cables adapted for connection with the second vehicle.

1,675,513. HYDRAULIC PRESS. LARS PARKER, Chicago Ill., assignor to Quality Hardware & Machine Co., a Copartnership consisting of Hilding A. Laystrom, Jerry Anderson, Carl Schwartz, and Elsie Laystrom, Chicago, Ill. Filed Mar. 7, 1927. Serial No. 173,282. 4 Claims. (Cl. 138—10.)



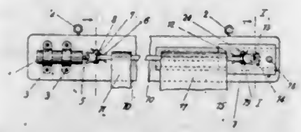
1. In a machine of the character described, the combination with a die having a forming cavity for receiving a tube, of a plunger adapted for fitting in said tube and a sleeve on the lower end of said plunger adapted for resting on said tube, said sleeve and plunger having relative movement whereby said plunger may enter said tube for the purpose set forth.

1,675,514. LAMP-SHADE CONSTRUCTION. ERNEST G. PATTERSON, Chicago, Ill. Filed July 5, 1927. Serial No. 203,540. 7 Claims. (Cl. 240—108.)



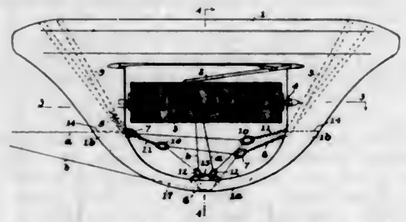
1. A collapsible lamp shade frame comprising upper and lower ring-like frame members spaced apart on substantially the same axis, and connecting standard members, with means including an integral radially-directed lever-extension of the standard members respectively for holding the ring-like members against twisting movements relative to each other, the standard members being readily releasably connected to one ring-like member and being mounted on the other ring-like member for movement into planes close to and substantially parallel with the plane of said other ring-like member to form a shallow compact unit.

1,675,515. SUSPENSION DEVICE FOR MAPS AND THE LIKE. CHRISTIAN PEDERSEN, Ugledige, near Allerslev, Denmark. Filed Mar. 26, 1927, Serial No. 178,787, and in Denmark Mar. 29, 1926. 3 Claims. (Cl. 40—85.)



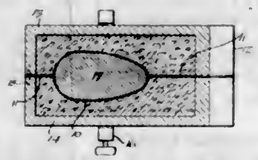
1. A suspension device for maps and the like, comprising, in combination, two oppositely located clamping bows adapted to receive and hold fast the rod attached to the upper rim of the map, one of said bows being adjustable with respect to the other bow according to the length of said rod, and an automatic winding and checking device connected with the other clamping bow, substantially as described.

1,675,516. SHUTTLE. FRANZ C. REINHARDT, Paterson, N. J. Filed Oct. 22, 1927. Serial No. 227,877. 9 Claims. (Cl. 139—201.)



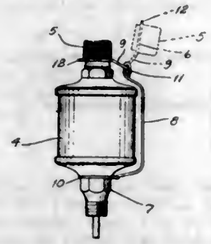
1. A double-thread-delivering shuttle having a bow provided with a forward thread-separating abutment and thread outlets for the respective threads extending back from said abutment, said shuttle also having means independent of the abutment for imposing on that thread which is held by the abutment relatively forward of the other thread on the flight of the shuttle in either direction tension exceeding the tension on said other thread.

1,675,517. MATRIX FOR MAKING CASTS. WILLIAM M. SCHOLL, Chicago, Ill. Filed Oct. 31, 1925. Serial No. 65,904. 4 Claims. (Cl. 18—5.)



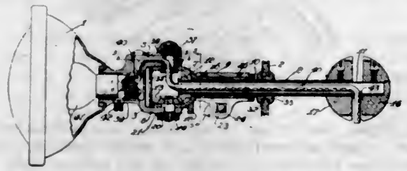
2. In a mold, two separable hollow members to hold a plastic material and means to hold said members in register, in combination with a thin, elastic, removable, imperforate sock to enclose a foot to be inserted in said members, said sock having a projecting fin for inclusion between the meeting edges of said members to provide a parting zone.

1,675,518. OIL-CUP-CAP HOLDER. FRANK STROINSKI, St. Louis, Mo. Filed Feb. 24, 1927. Serial No. 170,656. 1 Claim. (Cl. 220—24.)



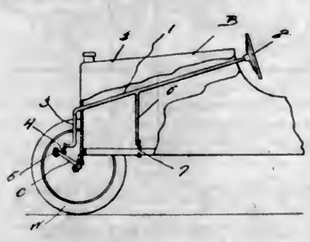
A device of the character described, comprising two pieces of resilient wire, the end of one piece forming a hook, the other end of the same piece forming an eye, the two ends being joined by a portion of the piece extending laterally beyond and at right angles to the plane of the hook, the second piece extending through the eye of the first piece and having two prongs, each prong being bent outwardly in an arcuated manner opposite the other.

1,675,519. SPOTLIGHT AND MOUNTING THEREFOR. HENRY P. THOMPSON, Chicago, Ill. Filed Mar. 10, 1924. Serial No. 698,017. 3 Claims. (Cl. 240—61.)



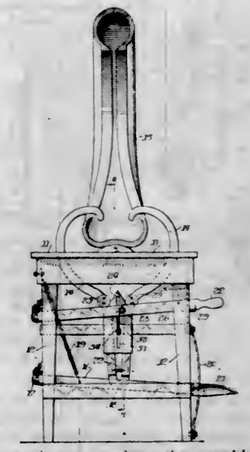
1. In combination, a lamp body, a rearwardly opening yoke extending therefrom, a housing upon which the arms of said yoke are lapped and pivoted, a hollow adjusting member rotatable in said housing and extending rearwardly therefrom with gearing in the housing operatively connecting said member with the yoke, one arm of the yoke being hollow and the pivotal connection of said arm having a passage by which the hollow arm communicates with the housing and a continuous lead wire extending through said hollow yoke arm and its pivotal connection and through the hollow adjusting member for supplying electrical energy to the lamp.

1,675,520. AUTOMOBILE STEERING GEAR. IRAH JUNIOR WATKINS, Cincinnati, Ohio, assignor to Dudley Andrews, Indianapolis, Ind., and James L. Arnout, Buffalo, N. Y. Filed Sept. 5, 1924. Serial No. 736,102. Renewed Mar. 22, 1927. 2 Claims. (Cl. 280—93.)



1. In a device of the class described, an automobile frame, a front axle pivotally connected on a horizontal pivot at a point between its ends to the intermediate portion of the frame for permitting rocking of said axle upon said pivot, steering wheels disposed at the outer ends of said axle, steering knuckles interposed between the wheels and the ends of the axle, a connecting rod between the arms of said steering knuckles, a link having connection with one of the steering knuckles, a rod turnable about its axis and connected at one end to the inner end of said link, a depending leg carried by the intermediate portion of said rod, and a pair of separate chains connected to the lower end of said leg and at their outer ends to the frame of the automobile.

1,675,521. TIRE SPREADER. GAILARD E. WEAVER, Springfield, Ill., assignor to Weaver Manufacturing Company, Springfield, Ill., a Corporation of Illinois. Filed Sept. 26, 1927. Serial No. 221,949 7 Claims. (Cl. 154—9.)



1. In a tire-casing spreader, the combination of a support for the tire-casing to be inspected, opposed hook-members arranged to engage the opposite marginal portions of a casing mounted on said support, means to depress said hook-members, and cam means to cause the separation of said hook-members during their depression, whereby to effect the spreading open of that portion of the tire-casing engaged by the hook-members.

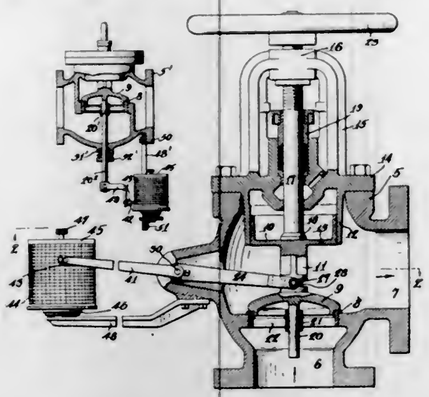
1,675,522. DIVER TOY. CHRISTIAN WEIDINGER, LUDWIG GRADL, and MARTIN SCHÖNNER, Nuremberg, Germany, assignors to Bayerische Celluloidwarenfabrik, vorm. Albert Wakker A.-G., Nuremberg, Germany. Filed Jan. 6, 1926, Serial No. 79,594, and in Germany June 22, 1925. 3 Claims. (Cl. 272—8.)



3. A toy of the character set forth, comprising a container sealed at its ends and substantially filled with

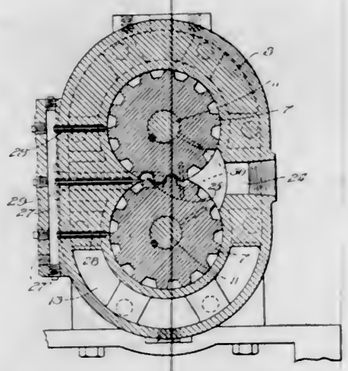
liquid, and a pressure-responsive diving member floatable therein, the body of said container being of elastic material and diametrically compressible between its ends to a degree to cause the same to exert pressure on the contained liquid for operating the diving member.

1,675,523. INDICATING AND RECORDING NONRETURN VALVE. DAVID ROBERT YARNALL, Philadelphia, Pa., assignor to Yarnall-Waring Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 10, 1924. Serial No. 705,473. 1 Claim. (Cl. 234—1.)



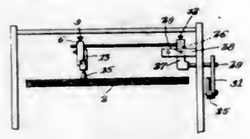
A non-return stop and check valve of the globe type having a damper upon the valve, in combination with a valve stem therefrom passing through the body of the valve, packing therefor and recording connections mounted upon the said stem.

1,675,524. ROTARY COMPRESSOR OR MOTOR. LEOPOLD ZAJAC, Milwaukee, Wis. Filed Sept. 30, 1927. Serial No. 222,992. 3 Claims. (Cl. 230—205.)



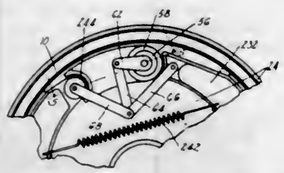
1. In a device of the character described, the combination with a casing and a pair of intermeshing herringbone gears working therein, said casing having a centrally disposed inlet on one side and exhaust outlets at the ends of said gears where the end portions of the teeth of said gears intermesh, of means for introducing a sealing liquid into said casing including a centrally disposed duct for discharging a sealing liquid into the space immediately adjacent the position in which the apices of said gears start to intermesh.

1,675,525. HOLDDOWN AND REGISTER FOR AUTOMATIC FEEDERS. LESTER KYLE ALDRICH, Sidney, Ohio. Filed June 2, 1927. Serial No. 196,028. 10 Claims. (Cl. 271—27.)



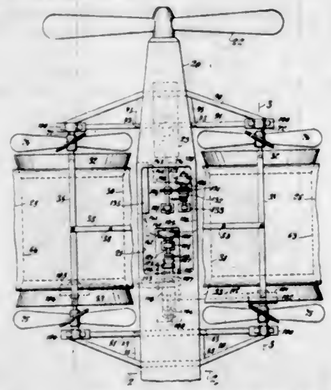
1. A hold down and register for automatic feeders comprising a body movable upwardly and downwardly to clear the top sheet of a stack, means extending rearwardly from the body and carried by the same for engaging the second sheet of the stack when the top sheet is clear of the device, and means operated by the downward movement of the device for moving the said second sheet rearwardly to its initial position in perfect register.

1,675,526. BRAKE MECHANISM. VINCENT BENDIX, Chicago, Ill., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 7, 1926. Serial No. 100,257. 9 Claims. (Cl. 188—194.)



5. Brake mechanism comprising, in combination, a drum, a fixed support including a journal bearing, a friction device anchoring at one end on the support when the drum is turning in one direction and anchoring at the other end on the joural bearing when the drum is turning in the other direction, a shaft in the bearing having an arm at its end, and toggle links connecting said arm to the ends of the friction device.

1,675,527. COMBINED PROPELLER AND ROTOR. JAMES C. BENNETT, New York, N. Y., assignor of forty per cent to William H. Fraser, New York, N. Y.; five per cent to Gonzalo O'Neill, East Orange, N. J.; and five per cent to Arthur A. de Bonneville, Bayonne, N. J. Filed Sept. 7, 1926. Serial No. 133,972. 8 Claims. (Cl. 244—25.)



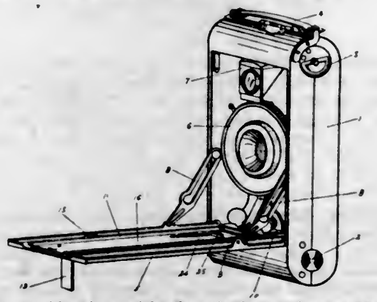
1. The combination of a sleeve casing, an inlet duct extending from one end of the casing, an outlet duct extending from the other end of the casing, a rotor in the casing and coaxial therewith, means to direct streams of compressed air to the said inlet duct, the air rotating the rotor and expanding, and means to again expand the air when discharged from the outlet duct.

1,675,528. INSTRUCTIONAL MUSICAL-HARMONY CARD GAME. MABEL M. BISHOP, Milwaukee, Wis. Filed Jan. 28, 1927. Serial No. 164,195. 8 Claims. (Cl. 273—152.)



1. An instructional musical harmony game comprising a series of book sets of cards, the cards of each set comprising a key signature card and a set of chord bearing cards written in the key indicated by the signature card, whereby a player holding one of the cards in a book may obtain the others by calling for them from other players or by drawing them from the deck.

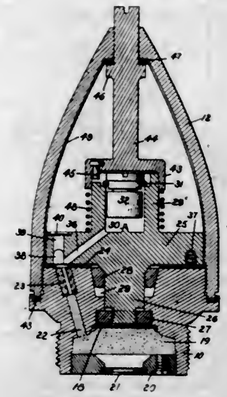
1,675,529. CATCH FOR CAMERA FRONTS. CARL A. BORNMANN, Binghamton, N. Y., assignor, by mesne assignments, to AGFA Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed Aug. 1, 1927. Serial No. 209,916. 3 Claims. (Cl. 95—46.)



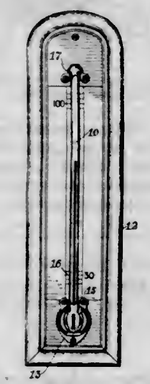
1. In combination with the platform of a camera, a slidable rail thereon, a fixed cover plate over said rail between the edges thereof, a sliding front on said rail, a spring catch on said cover plate normally out of the path of said front, and means on said slidable rail for forcing said catch upwardly in such path when the rail is extended.

1,675,530. POWDER TIME FUSE. HAROLD M. BRAYTON, Dover, N. J. Filed Aug. 5, 1924. Serial No. 730,294. 11 Claims. (Cl. 102—36.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A powder time fuse including a body, a hollow cover secured to the body, a time ring formed with a stem for rotatably securing the ring to the body, a tapered ring embracing the stem and adapted on set back to lock the time ring, a tubular extension formed on the forward face of the time ring, a concussion plunger supported at the mouth of the extension, and a cap for preventing displacement of the plunger.



1,675,531. THERMOMETER. HENRY B. BROWN, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed Mar. 3, 1927. Serial No. 172,480. 6 Claims. (Cl. 73—52.)

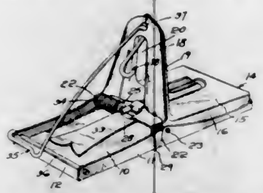


6. In instruments of the character described, including a stem terminating in a bulb and a base therefor, a hood-shaped guard consisting of a single piece of sheet material and constructed to provide on one side an opening for the stem and a portion contiguous to the opening for bearing upon the stem to hold it to the base.

1,675,532. RAT TRAP. CHARLES L. CESSNA, Fort Dodge, Iowa. Filed May 4, 1925. Serial No. 27,904. Renewed Feb. 4, 1928. 1 Claim. (Cl. 43—83.)

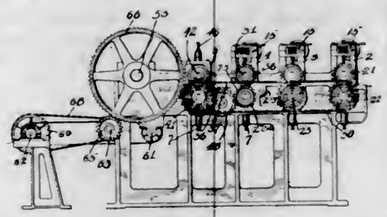
A trap of the character described comprising a base embodying a stationary jaw, a co-acting movable jaw pivoted upon the base and provided with a setting extension which assumes an upstanding position when the movable jaw is in the closed position, said setting extension having an aperture near its free end and a longitudinal opening inwardly of the aperture, a spring to throw the movable jaw to the closed position, a pivoted

dog mounted upon the base and extending through the aperture of the setting extension, said dog being bent into a U-shaped portion at its forward end with the base of the U-shaped portion being arranged in advance of the setting extension, the free arm of the U-shaped portion extending rearwardly of the setting extension when



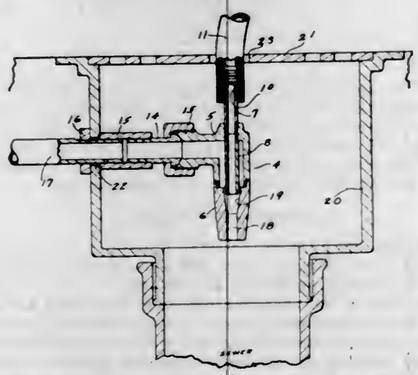
the movable jaw is in the closed position and carrying a forwardly bent tongue also positioned in the rear of the setting extension, said free arm and tongue being arranged to operate within the longitudinal opening of the setting extension, and a pivoted trigger arranged upon the base and carrying an overhanging tongue adapted for co-action with the first named tongue.

1,675,533. SHINGLE-MAKING MACHINE. HARRY A. CUMFER, Chicago, Ill., assignor to "Guyton & Cumfer Mfg. Co.," Chicago, Ill., a Corporation of Illinois. Filed Jan. 5, 1925. Serial No. 538. 7 Claims. (Cl. 164—68.)



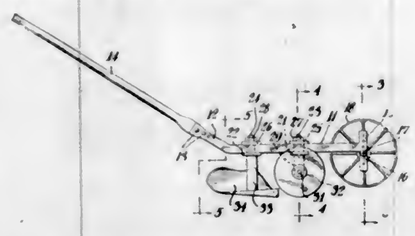
7. In a shingle machine, mechanism for shearing a sheet of roofing into strips, rolls for advancing said strips, mechanism for laterally separating said strips and means for temporarily and vertically separating adjacent strips after lateral separation thereof.

1,675,534. PRESSURE SIPHON. CHARLES A. DAVIS, Seattle, Wash. Filed Oct. 12, 1927. Serial No. 225,652. 1 Claim. (Cl. 230—92.)



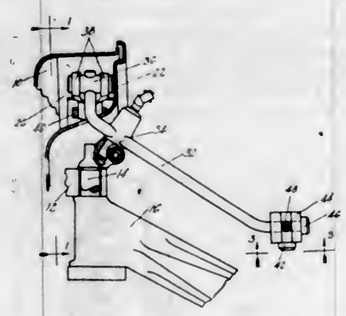
In a pressure siphon, a body member, a water inlet opening disposed in the side of said body member, a suction opening disposed in the top of said body member, a discharge opening disposed in the bottom of said body member, a vertically disposed suction tube disposed in said suction opening, a removable jet tube vertically disposed in the medial portion of said body member, and a removable discharge tip having a bore the upper end of which is tapered, said tapered portion partially surrounding the lower end of said jet tube.

1,675,535. TRIMMING TOOL. PETER DETLEFSEN, North Bend, Nebr. Filed July 22, 1927. Serial No. 207,648. 2 Claims. (Cl. 97—227.)



1. A trimming device comprising a pair of side frame members, a handle fixed to one end of said members, a guide wheel rotatably mounted in the other end of said members, means adjustable along said frame members to cut the grass, and means similarly adjustable along the frame members to throw the cut grass to one side.

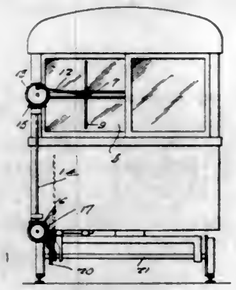
1,675,536. BRAKE MECHANISM. ADIEL Y. DODGE, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 2, 1925. Serial No. 66,266. 10 Claims. (Cl. 188—194.)



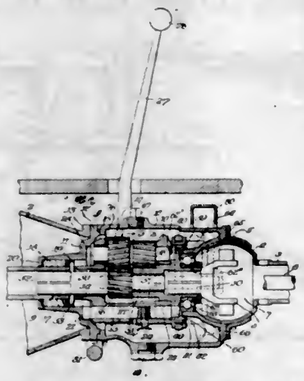
1. Brake mechanism comprising, in combination, a friction device having a thrust member forked to provide arms formed with coaxial openings, a cylindrical connector sleeved in said openings and formed with a central cross bore, and an operating member having a part received in said cross bore.

1,675,537. WINDOW WIPER. FRANK A. EITELGOERGE, Denver, Colo. Filed Aug. 8, 1927. Serial No. 211,498. 3 Claims. (Cl. 15—253.)

1. A window wiper of the class described, in combination, a sectional window, the sections of the window having adjacent edges disposed in spaced relation, upper and lower guide tracks mounted upon the opposed edges of said sections and disposed in spaced relation, a slide block arranged between said tracks and having marginal flanges slidably contacting said tracks, a wiper including a backing member, and a squeegee strip in contact with the outer surfaces of said window sections, a bolt passing removably through an opening in said block and through an opening in said backing member, operating means connected with said bolt, and a retaining nut carried by the threaded end of the bolt and maintaining said operating means, backing member, and block in assembled relation.



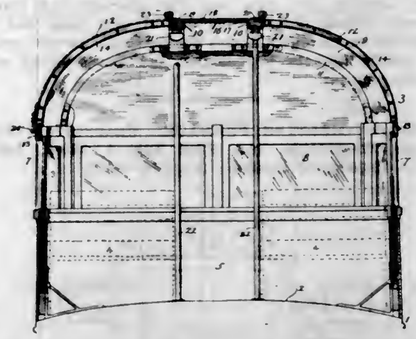
1,675,538. TRANSMISSION. THOMAS L. FAWICK, Racine, Wis. Filed Dec. 11, 1925. Serial No. 74,813. 8 Claims. (Cl. 79—34.)



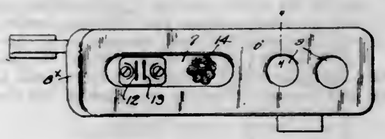
1. In combination, a housing having an integral end wall, a bearing in said end wall, a removable end wall for the open end of the housing, a bearing in said second end wall, a pair of shaft sections mounted in said bearings and piloted axially in alignment with each other, a cage surrounding the ends of said shaft sections and having bearings thereupon, pinions of different diameters on the adjacent ends of the shaft sections, a series of lay-shafts having connected gears meshing with said pinions, a series of clutch bars disposed in the cage substantially parallel with said lay-shaft, a collar for shifting said clutch bars, means for clutching said bars at one end to the housing and means for clutching said bars at the opposite end to one of said shaft sections.

1,675,539. VEHICLE TOP. MICHAEL J. FORRESTER, Astoria, N. Y., assignor to Fifth Avenue Coach Company, a Corporation of New York. Filed Aug. 5, 1926. Serial No. 127,240. 2 Claims. (Cl. 296—102.)

1. In a vehicle top, the combination of two longitudinally extending transversely spaced roof rails, transverse roof supporting ribs having their inner ends abutting against and fastened to the outer sides of the rails and extending thence outwardly and downwardly in continuous curves and supported at their lower ends in the sides of the vehicle top, and a roof plate fastened to the upper sides of the rails and bridging the space between them and forming an uninterrupted continuation of the contour of the vehicle top, said plate being free and unobstructed on its under side, and said transverse ribs being adapted to give support to a roof covering extending outwardly in opposite directions from the longitudinal roof rails flush with said roof plate.

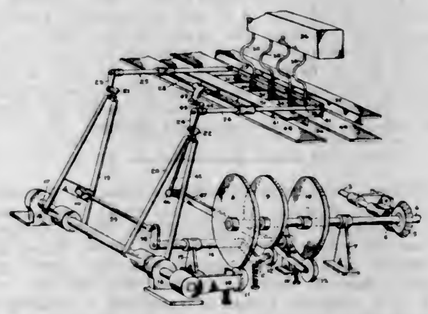


1,675,540. ATTACHMENT FOR FELT CONDITIONERS. WILLIAM RILEY FOWLER, Hamilton, Ohio. Filed Nov. 24, 1926. Serial No. 150,561. 4 Claims. (Cl. 92—50.)



1. In means for the purpose described, the combination with a box opened at its upper side and machined so as to have a taper and to be wider at one end than at the other, and being dove tailed, of an apertured plate machined with a taper so as to be wider at one end than the other and dove-tailed and adapted to be slipped endwise on the box and be tightly held to the box in air tight manner of itself.

1,675,541. TREATMENT OF CONTAINERS. FREDERICK FRANZ, Woodhaven, N. Y. Filed Aug. 1, 1925. Serial No. 47,458. 7 Claims. (Cl. 91—39.)

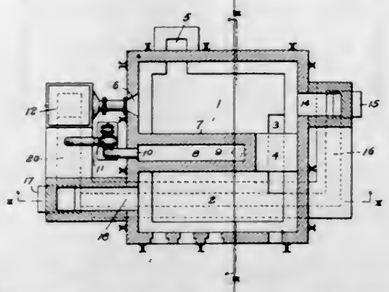


1. In a device of the class described, means for feeding containers in position to be greased, means for inserting non-rotatable greasing elements therein and for

moving the same across the entire interior surface of said containers, and means for withdrawing said greasers and removing said containers.

7. In a device of the class described, a conveyor and pans thereon, a greasing device, and means for raising and lowering the same and for laterally and transversely moving the same in one of said pans, and in combination therewith means for moving successive pans in position for the introduction and movement of said greasing device.

1,675,542. MELTING FURNACE. CHAUNCEY E. FRAZIER, Washington, Pa. Filed Aug. 4, 1926. Serial No. 127,004. 5 Claims. (Cl. 266—33.)



1. A melting furnace of twin construction adapted to carry in its lower portion the material under treatment and in its upper portion a heat-giving gaseous stream and including melting and working chambers arranged side by side, the said furnace being provided with a port at the downstream end of the melting chamber, and means for diverting through said port a portion of a gaseous stream flowing through the furnace.

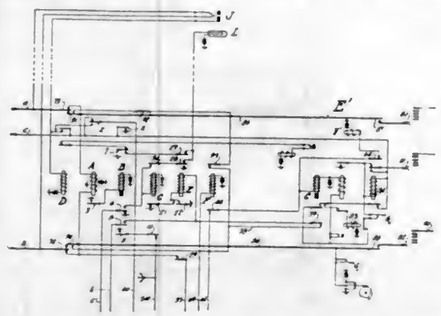
1,675,543. FOUNTAIN-PEN DESK STAND. JULES A. FREMON and AVERY S. DE HAVEN, Leeper, Mo., assignors to W. A. Sheaffer Pen Co., Fort Madison, Iowa, a Corporation of Delaware. Filed Sept. 17, 1926. Serial No. 136,074. 5 Claims. (Cl. 120—108.)



1. In a fountain pen desk stand, a base adapted to be placed on the top of a desk, a receptacle pivotally mounted at the closed end thereof on said base for receiving the writing point of a fountain pen and having a seat therein to support one end of the body of said fountain pen whereby said writing point is sealed apart from the atmosphere, and automatic means for urging said fountain pen into said sealed position.

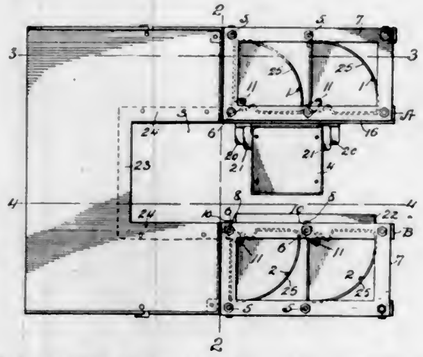
1,675,544. DIRECTOR CIRCUITS. CHARLES GILLINGS, Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 11, 1924, Serial No. 692,131, and in Great Britain Jan. 30, 1923. Renewed Nov. 23, 1927. 3 Claims. (Cl. 179—27.)

1. In a telephone system, a trunk line, a plurality of call directors, means for temporarily connecting one of said call directors with said trunk line to aid in setting up a connection thereover, an operator's switchboard, a signal thereat, means for operating said signal automatically responsive to an abnormal condition arising during the process of setting up a connection over said trunk line, and multiple connections between said



switchboard and said trunk line to enable an operator to converse with the calling subscriber or to give aid in further extending the connection.

1,675,545. STORE-SERVICE APPARATUS. PLUMA R. GOSS, Kansas City, Mo. Filed Apr. 9, 1927. Serial No. 182,257. 5 Claims. (Cl. 211—134.)

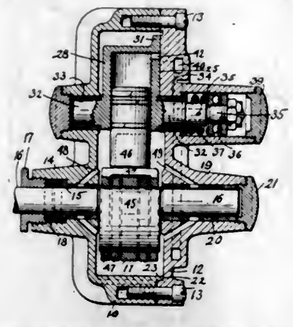


5. In a store service apparatus, two oppositely disposed tiers of shelves having between them a passage, supporting means to which said shelves are pivoted so as to swing into and ont of said passage, a U-shaped counter having its transverse portion closing said passage and spaced from said tiers and having its arms respectively alining with and extending substantially to said tiers, and a car adapted for travel in said passage on said supporting means between said arms and said tiers.

1,675,546. COMPRESSOR. LEE B. GREEN, Lakewood, Ohio, assignor of one-third to Earl L. Jones, Cleveland, Ohio; one-third to Cassius L. Finney, Canton, Ohio; and one-third to Conrad B. Krause, Cleveland, Ohio. Filed June 27, 1925. Serial No. 39,938. 1 Claim. (Cl. 230—175.)

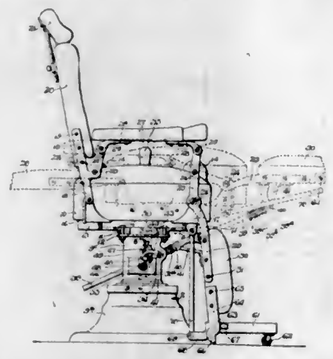
In compressors, the combination of a housing comprising two sections bolted together and having a chamber and bearings in the walls on opposite sides of the chamber, said bearings being arranged in aligned pairs, an oscillatable cylinder having trunnions mounted in one of said pairs of bearings, a shoulder formed on one of the trunnion bearings, a shaft mounted in another of said pairs of bearings and extending to the exterior of said housing, said walls having ports which communicate with said chamber and through which lubricant is circulated through said shaft bearings, one of said

walls having inlet and discharge ports therein and said cylinder having a port which cooperates with said inlet and discharge ports, said wall being provided with a bearing surface against which said cylinder is pressed to form a seal for said ports, one of said trunnions having an extension threaded and pinned therein, a



thrust bearing carried by said extension, a spring engaging the shoulder on the trunnion bearing cooperating with said thrust bearing to hold said cylinder against said surface and to secure said trunnion bearing in place, an eccentric on said shaft, and a piston in said cylinder operatively connected with said eccentric.

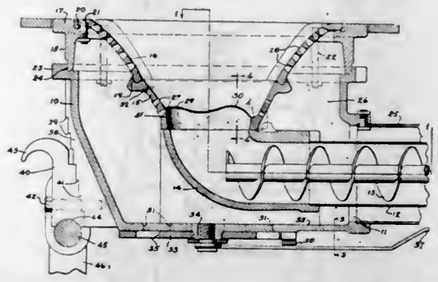
1,675,547. RECLINING CHAIR AND FOOT REST. WILLIAM GRIMMICH, Chicago, Ill., assignor to Emil J. Paidar Company, Chicago, Ill., a Corporation of Illinois. Filed July 9, 1925. Serial No. 42,340. 1 Claim. (Cl. 155—25.)



In a reclining chair, the combination with a swingable back, a leg rest swingable with said back, a foot rest pivoted intermediate its ends to said leg rest, a rod pivoted at one end to said chair and at its other end to said foot rest, said foot rest having a pair of lateral lugs and said leg rest having extending side members adapted for engaging said lugs when said leg rest is moved to horizontal position.

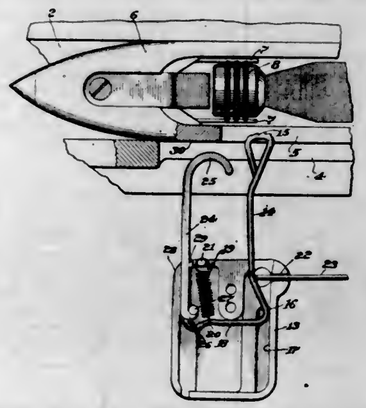
1,675,548. BURNER FOR SOLID FUEL. CORTICE H. HALL, Paterson, N. J., and WILLIAM LLOYD, Hazleton, Pa., assignors to Domestic Stoker Company, New York, N. Y., a Corporation of Delaware. Filed July 9, 1925. Serial No. 42,347. 2 Claims. (Cl. 110—45.)

1. In a solid fuel burner of the underfeed type, an upwardly flaring annular grate, a feed conduit having a horizontal portion and an upwardly directed portion communicating with the lower end of the grate, a screw in said conduit for forcing fuel through said conduit and over the interior of the grate, the lower portion of said grate being provided on the interior thereof, at



the side at which the conveyer tends to convey fuel most rapidly, with an upstanding lip adapted to retard the passage of fuel over the grate on that side and thus produce a level combustion surface at the top of said grate.

1,675,549. FEELER MECHANISM FOR LOOMS. OREN C. HAMMETT and GEORGE R. SCOTT, Knoxville, Tenn., assignors to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 31, 1927. Serial No. 243,918. 7 Claims. (Cl. 139—230.)

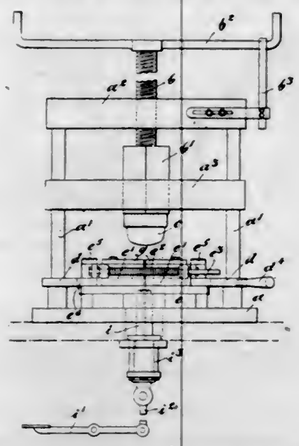


1. In a feeder mechanism for looms, the combination of a feeler stand, a floating side slipping feeler mounted on the feeler stand and having a laterally extended arm, a spring connected to said arm and normally acting to move the feeler rearwardly, a stop bearing secured to the feeler stand rearward of the laterally extended arm, a change preventer constituted as a slide on the feeler stand having a lateral projection between the stop bearing and laterally extended arm and having its rear end adapted for engagement with a surface on the lay to move the feeler frontwardly and prevent replenishment should the shuttle be improperly boxed on a detecting beat.

1,675,550. PRESS FOR SHAPING COVERS OF TEAPOTS AND THE LIKE. ARTHUR HANDLEY, Tunstall, England. Filed Dec. 29, 1927, Serial No. 243,289 and in Great Britain Dec. 8, 1926. 6 Claims. (Cl. 25—22.)

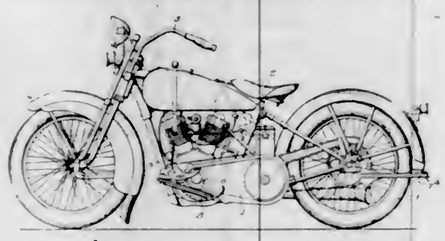
1. Apparatus for the manufacture of an earthenware cover for a teapot or container comprising in combination a male die, a female die consisting of a one-piece concavitous body part, opposed pairs of relatively slid-

able upper and lower die sections associated with said female die, the lower sections being adapted to assist in constituting cover handle, and the upper sections as-



sist in constituting the annular wall and lateral locating flange of the said cover, and means for slidingly displacing the opposed pairs of die sections for the removal of the cover.

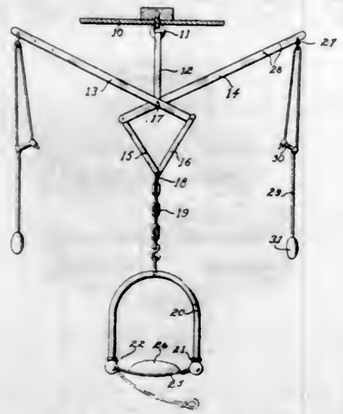
1,675,551. CYCLE SUPPORT. WILLIAM S. HARLEY and ARTHUR R. CONSTANTINE, Milwaukee, Wis., assignors to Harley-Davidson Motor Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 5, 1925. Serial No. 35,152. 6 Claims. (Cl. 208—79.)



1. In combination, the frame of a motorcycle, a bracket carried by said frame, a support swingingly carried by said bracket, the axis of swing of said support being angularly disposed relative to the line of ground contact of the wheels of said motorcycle, said bracket and said support having sufficient play to permit movement in a vertical plane of said support relative to said frame, and a catch member rigidly mounted relative to said frame, said catch member having a pair of abutment portions defining a notch for receiving said support, one of said abutment portions being of sufficient length to abut said support throughout its range of play in a vertical plane, the other of said abutment portions being of sufficiently less length to permit swinging movement of said support when said support is in its lowermost vertical position.

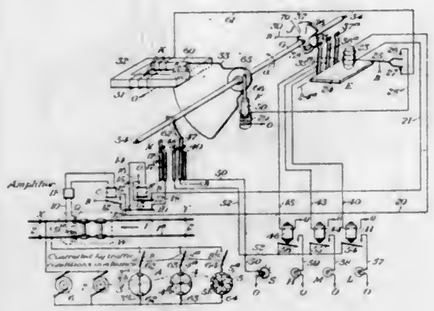
1,675,552. GYMNASTIC APPLIANCE. HENRY I. HAWXHURST, Sierra Madre, Calif. Filed Nov. 2, 1923. Serial No. 672,401. 5 Claims. (Cl. 272—80.)

2. A gymnastic apparatus comprising a pair of levers pivoted together near the ends thereof; supporting means connected to said levers at their pivoted connection; a pair of links pivotally connected together and to the shorter ends of the levers; means connected to the links at their pivoted connection to engage the person of the user; and means connected to the outer



ends of the levers adapted to enable the user to operate the levers, whereby portions of the body of the user may be stretched.

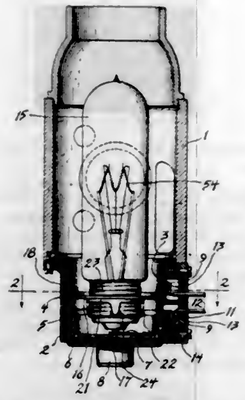
1,675,553. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. HAROLD O. HOLTE, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Dec. 18, 1924. Serial No. 756,710. 21 Claims. (Cl. 246—63.)



3. Railway traffic controlling apparatus comprising a train carried member biased in one direction, means for retarding the movement of said member in the said one direction but not in the other direction, apparatus located partly on the train and partly in the trackway for moving said member in the said other direction to an initial position at intervals spaced in accordance with traffic conditions, and governing mechanism on the train selectively responsive to the amount of movement made by said member away from such initial position between successive intervals.

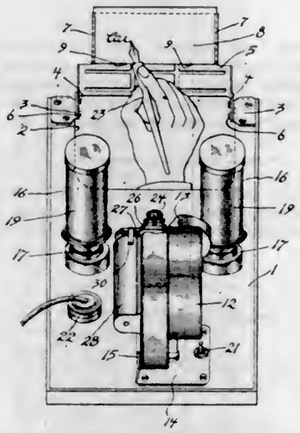
1,675,554. INCANDESCENT-ELECTRIC-LAMP SOCKET, LAMP, AND ADAPTER THEREFOR. ALBERT S. HOWELL, Chicago, Ill., assignor to Bell & Howell Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 23, 1923. Serial No. 620,821. 12 Claims. (Cl. 173—357.)

1. An incandescent electric lamp socket adapted to have an incandescent electric lamp installed therein through the bottom thereof including a downwardly facing conductive contact adapted to have the body of the lamp passed by the same and to have an upwardly facing contact of the base of the lamp engaged against the same, and a conductive end contact removably mounted on the socket and adapted for contacting an end



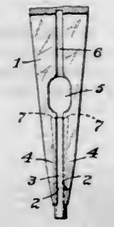
contact of the lamp base for holding the lamp in the socket with said first mentioned contact in contact with the second mentioned contact, the removal of said third mentioned contact permitting installation and removal of the lamp.

1,675,555. PHOTOGRAPHIC DEVICE. ALBERT S. HOWELL, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 10, 1926. Serial No. 134,627. 5 Claims. (Cl. 88—24.)



1. In a device of the character described the combination of a flat support, means for securing a motion picture camera in a predetermined position thereon and above one face thereof, and an objective mounted on said support and presenting a surface extending upright from said face of the support and facing said camera for the photographing of matter on said objective, said support having an opening therethrough and extending forwardly of said surface of the objective and through which opening said surface is accessible for the inscription of matter thereon whereby to effect the photographing of the procedure of inscribing matter on said surface.

1,675,556. YARN GUIDE FOR KNITTING MACHINES. KENNETH HOWIE, Norristown, Pa., assignor to Wildman Mfg. Co., Norristown, Pa., a Corporation of Pennsylvania. Filed May 21, 1927. Serial No. 193,279. 6 Claims. (Cl. 66—126.)



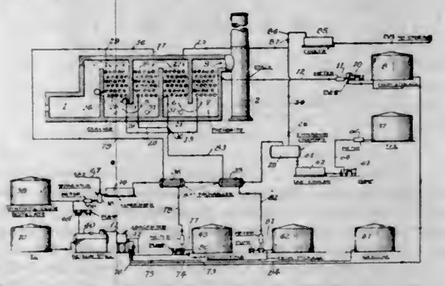
3. In combination in a yarn guide for full fashioned knitting machines, a member having spring jaws with grooves in their opposing faces, said grooves being enlarged at one point and presenting shoulders at their upper ends, and a yarn guide tube held between said jaws in the grooves and against the shoulders, and having an enlarged portion to fit the enlargement of the grooves to prevent lengthwise dislodgement of the tube, substantially as described.

1,675,557. KNITTING IMPLEMENT FOR KNITTING MACHINES. KENNETH HOWIE, Norristown, Pa., assignor to Wildman Mfg. Co., Norristown, Pa., a Corporation of Pennsylvania. Filed May 21, 1927. Serial No. 193,281. 7 Claims. (Cl. 66—107.)



1. A composite knitting implement for knitting machines having a main member provided with a forward or nose portion to work between the needles, and an integral stem portion provided with a butt, and an auxiliary member having a stem and butt portion to lie alongside the stem and butt portion of the main member and means for holding the butt portions of the said members together, said means presenting wear surfaces, substantially as described.

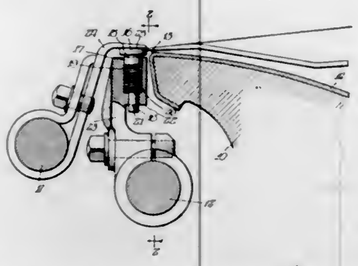
1,675,558. ART OF CRACKING HYDROCARBONS. EDWARD W. ISOM, Winnetka, Ill., and CHARLES L. PARMELEE, Orange, N. J., assignors to Sinclair Refining Company, Chicago, Ill., a Corporation of Maine. Filed Mar. 3, 1923. Serial No. 622,508. 23 Claims. (Cl. 196—58.)



1. A process of cracking heavy hydrocarbons to produce lighter hydrocarbons comprising passing the oil through a heating zone of restricted cross section, heat-

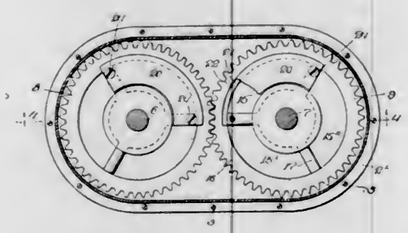
ing it therein to a cracking temperature and adding to the oil at an intermediate point of said heating zone during its passage therethrough and before the heated oil becomes saturated with tar an oil capable of acting as a solvent for the tar formed during cracking.

1,675,559. GRIPPER MECHANISM. ARTHUR G. JACOBSON, Chicago, Ill., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 12, 1926. Serial No. 101,349. 1 Claim. (Cl. 101—412.)



In a gripping mechanism, a support adjustably fixed relative to the surface of a drum, a gripper member mounted on said support yielding in a substantially radial direction only and presenting a roughened plane gripping surface, said gripper member having a limited outward movement, said surface in its limited outward position lying substantially in the plane of sheets to be gripped: a pivoted cooperating gripper having a relatively smooth plane surface, said last named surface being so disposed relative to the pivotal center on which it turns that its plane substantially coincides with the plane of the surface of said roughened gripper and the plane of said sheets when said grippers initially engage, said pivoted gripper being capable of slight additional movement to depress in its gripping action said roughened gripper, whereby a sheet is held immovably on said roughened surface as initially engaged while said smooth gripper slides slightly over the surface of said sheet.

1,675,560. AGITATOR. PAUL JUBIEN, Chicago, Ill., assignor to B. F. Gump Co., Chicago, Ill., a Corporation of Illinois. Filed July 29, 1921. Serial No. 488,388. 9 Claims. (Cl. 74—14.)



1. In an agitator, a framing, a pair of spur gears journaled in said framing and meshing with each other so as to revolve uniformly in opposite directions with their central planes coinciding, an overweighted sector formed integrally with each of said gears whereby when said gears are revolved uniform reciprocating transverse movement is given to said framing, and means carried by the gears and balanced in respect to their central planes for increasing the force of said reciprocating movement.

1,675,561. SENSITIZED SCREEN AND PROCESS OF MAKING SAME. GLEN IRVIN KEEL, Indianapolis, Ind. Filed Aug. 9, 1926. Serial No. 128,107. 3 Claims. (Cl. 41—38.6.)



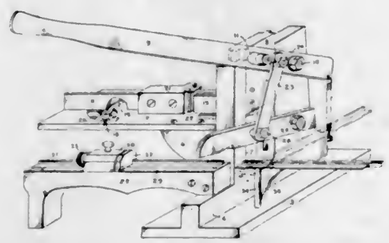
1. The process of preparing and treating a screen stencil for reproducing colored designs consisting of applying a sensitizing solution over the surface thereof, printing a design thereon through a negative on which has been opaqued the desired design, washing the soluble solution therefrom, applying a lacquer over one side of the screen, and thereafter removing said lacquer from about the design formed from the non-soluble solution by applying a thinner and washing through the screen from the other side thereof.

1,675,562. FREIGHT-TRANSPORTATION MEANS. WILLIAM PLATTS KELLETT, Brantford, Ontario, Canada. Filed Aug. 12, 1926. Serial No. 128,846. 8 Claims. (Cl. 105—366.)



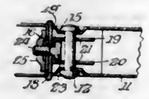
2. A freight transportation means, comprising a railway car, separate containers movably mounted on said car, compression buffers arranged on the ends of said containers, and compression buffers arranged at the ends of the railway car to engage the ends of the end containers.

1,675,563. MITERING AND CUTTING MACHINE. JOSEPH KLOHE, New York, N. Y. Filed Jan. 17, 1924. Serial No. 686,734. 7 Claims. (Cl. 164—10.5.)



1. In a tool of the class described, a horizontal work table, means for gauging work thereon, and a pivot knife adjacent the end thereof, and in combination therewith another table parallel with said first mentioned table, and a cutter slidable adjacent the end thereof, said knife and cutter being pivotally connected.

1,675,564. BOLTED CONNECTION FOR BEDSTEAD-CORNER LOCKS. FRANK KUSTERLE, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Aug. 21, 1922. Serial No. 583,386. 4 Claims. (Cl. 5—289.)



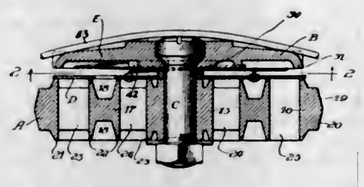
1. In a structure of the class described, a hollow post, a hook member, a pair of interthreaded members respectively provided on the inside and on the outside of the post, the wall of said post being provided with an aperture through which said interthreaded members communicate, the inner member being anchored against rotation and the outer member being keyed to said hook member whereby rotation thereof effects relative rotation between said interthreaded members and thereby forces said hook member toward the post, and means for locking said hook member against rotation on the post.

1,675,565. SAW. MATHIAS SYVERSEN LEE, Seattle, Wash. Filed Oct. 9, 1925. Serial No. 61,473. 1 Claim. (Cl. 143—133.)



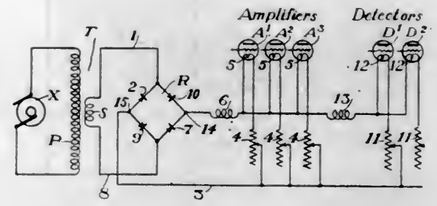
A hand saw having a blade provided on one edge with a series of evenly spaced teeth, each of said teeth having parallel rear and front edges, said teeth being parallel each to the others and inclined uniformly toward the handle end of the blade, the front edges of all of the teeth terminating at equal distances from the body of the blade and the ends of the teeth being disposed at slightly less than a right angle with respect to the front edges, the end edges and front edges of the teeth being beveled with the bevels of adjacent teeth facing opposite sides of the saw.

1,675,566. VALVE FOR COMPRESSORS. CHARLES H. LEINERT, Chicago, Ill., assignor to Leinert Valve Company, Chicago, Ill., a Corporation of Illinois. Filed July 31, 1922. Serial No. 578,610. 5 Claims. (Cl. 251—119.)



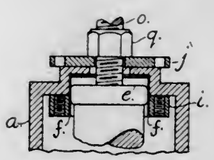
1. In a valve of the kind described the combination of a seat, a stop plate associated therewith, a disk interposed between the seat and stop plate, and a pair of springs slidably locked to the plate and formed to bear with pressure upon the disk at four equidistant points, substantially as described.

1,675,567. ELECTRICAL APPARATUS. LAURICE L. LOCKROW, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 14, 1926. Serial No. 135,398. 3 Claims. (Cl. 250—27.)



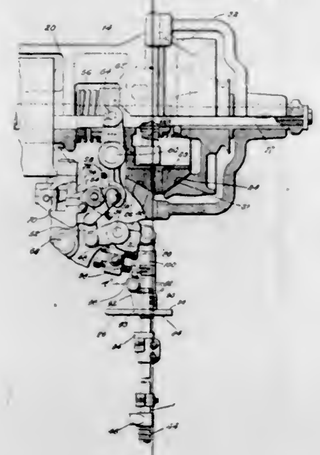
1. In combination, a source of pulsating current a plurality of reactors in series with the source, a plurality of electron tubes having their filaments connected in multiple, and a resistor in series with each filament and arranged to co-operate with the reactors to form a ladder filter.

1,675,568. MEANS FOR INSERTING OR SEATING THE OUTER RACES OF BALL BEARINGS, BUSHINGS, AND THE LIKE IN MACHINE HOUSINGS. ANDREW C. LYEN and CHARLES W. MORGAN, Chicago, Ill. Filed Aug. 4, 1926. Serial No. 127,077. 8 Claims. (Cl. 29—88.2.)



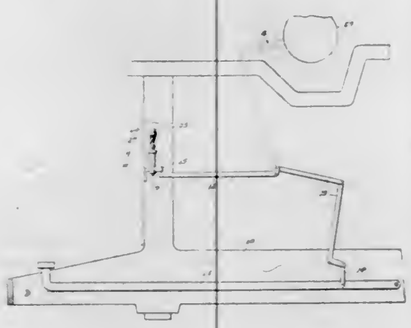
1. Means of seating the outer race of a ball-bearing in the recess provided therefor in a magneto housing wherein the recess is lined with a strip of paper or other thin material curled into the form of a wide cylindrical collar, comprising the combination of a ring with a puller, the ring having a cylindrical interior of approximately the same diameter as that of the housing recess and a width approximately equal to that of the outer race, the wide cylindrical collar being of sufficient size to line both the recess and the ring when the ring is placed in a framing position against the border of the recess preparatory to the seating of the race, the puller being devised to apply power to the periphery of the outer race of the ball-bearing and slide it axially along the interior of the wide cylindrical collar from an initial preparatory position in the ring to a final seated position within the housing recess; the particular purpose of the ring being to prevent slipping of the lining paper of which the wide cylindrical collar is composed by affording to it a substantial circumferential support during the seating operation.

1,675,569. FASTENING-INSERTING MACHINE. FRED L. MACKENZIE, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 15, 1923. Serial No. 619,183. 12 Claims. (Cl. 192—144.)



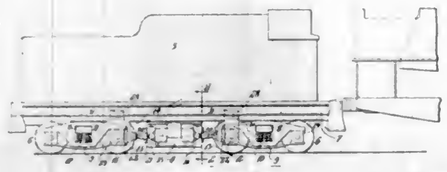
7. Controlling mechanism having, in combination, a clutch, a member arranged by its movement to render the clutch either operative or inoperative, a dog arranged to transmit movement to said member, and means carried by said member arranged to throw said dog into inoperative position when said member is moved to render the clutch operative.

1,675,570. ERASER. THOMAS J. MADIGAN, Brooklyn, N. Y. Filed Jan. 18, 1927. Serial No. 161,891. 11 Claims. (Cl. 197—181.)



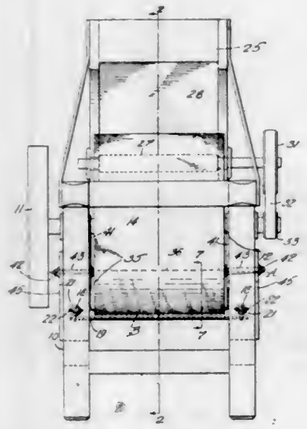
1. An eraser attachment for typewriting machines comprising a member provided at one end with means for securing it to a key actuated type bar of a typewriting machine and having an erasing element at the other end adapted to be carried into contact with the paper on the platen of the machine and effect the erasure when the type bar is actuated, said attachment forming an extension of the type bar to limit the throw of the bar to prevent the feeding of the carriage or the lifting of the ribbon while the erasing element is operating upon the paper to make the erasure.

1,675,571. RAILWAY BOOSTER. FREDERICK W. MARTIN, Manhattan Beach, N. Y., assignor to Franklin Railway Supply Company, a Corporation of Delaware. Filed Dec. 7, 1923. Serial No. 697,077. 7 Claims. (Cl. 105—117.)



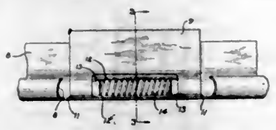
1. The combination with a railway vehicle having a plurality of trucks, of a shaft extending fore and aft thereof at one side, with driving connections to axles of different trucks close inside the corresponding wheels, and a booster motor at the other side of the shaft from said wheels driving them through the shaft.

1,675,572. SEPARATING MACHINE. THEODORE F. MORSE, Silver Creek, N. Y., assignor to Huntley Manufacturing Co., Silver Creek, N. Y. Filed May 14, 1923. Serial No. 638,688. 5 Claims. (Cl. 209—266.)



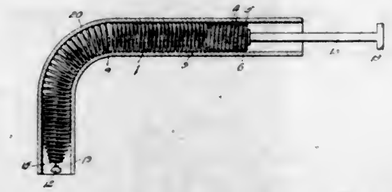
4. In a separating machine for seeds and analogous material, the combination of a rotating cylinder, a thin plate which partially surrounds and contacts with the periphery of the cylinder and is arranged to permit the entrance of the material between the cylinder and plate, means for holding the plate in contact with the cylinder, said plate having perforations in a portion thereof which contacts with the cylinder through which perforations a portion of the material is adapted to pass, and a divider arranged to separate the material passing through different perforated areas of the plate, an arm pivoted at one end of the axis of rotation of said cylinder and connected at its other end to said divider to permit the same to be adjusted concentrically with the curved portion of the plate to different positions to vary its separating action, and means for securing said divider in its different adjustments.

1,675,573. HINGE. DANIEL J. MURNANE, San Mateo, Calif. Filed Feb. 16, 1925. Serial No. 9,399. 10 Claims. (Cl. 16—179.)



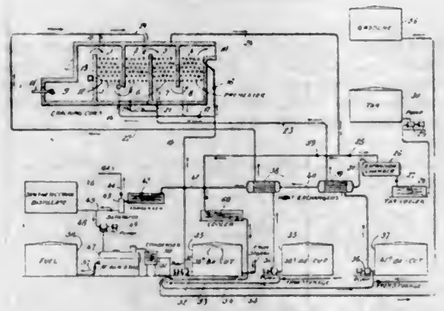
1. A casement window mounting comprising a fixed split-cylindrical slideway, a slide arranged on said slideway, a plate pivoted to the slide, a link fixedly pivoted at one end to said slideway and at the other end to said plate, and cylindrical shoes for creating a frictional resistance between the slide and the slideway.

1,675,574. PLUMBER'S LEAD-PIPE-BENDING SPRING. WILLIAM K. MYKINS, St. Louis, Mo. Filed Apr. 25, 1927. Serial No. 186,305. 4 Claims. (Cl. 153—63.)



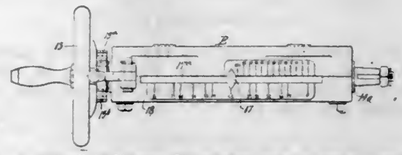
1. In a plumber's lead pipe bending spring, a spirally wound wire coil having one end tapered, a socket member fixed to one end of said wire coil, a flexible cable within the wire coil, a head member fixed to one end of the cable and swivelly seated in said socket member, a tapered seat formed upon the last coil of the tapered end of the wire coil and a head member fixed to the opposite end of the cable for swivel seating engagement with the tapered seat of said last coil, said head member having its major portion within the wire coil.

1,675,575. METHOD FOR CRACKING OILS. CHARLES L. PARMELEE, Orange, N. J., and EDWARD W. ISOM, Winnetka, Ill., assignors to Sinclair Refining Company, Chicago, Ill., a Corporation of Maine. Filed Aug. 13, 1923. Serial No. 656,990. 2 Claims. (Cl. 196—58.)



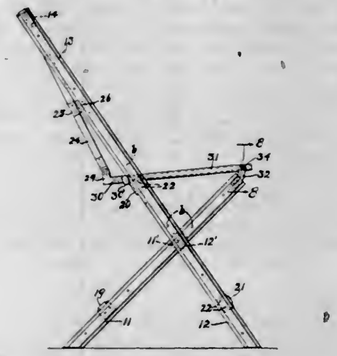
1. The improvement in the cracking of oil in tubular cracking stills which comprises forcing the oil in a single-pass through a cracking coil and heating the oil therein to a cracking temperature under a high pressure, introducing a solvent oil into the partially cracked oil at one or more intermediate stages of its progress through the cracking coil, and preheating the solvent oil by heat interchange with the cracked oil or with distillates therefrom.

1,675,576. POWER REVERSE GEAR MECHANISM. MONTAGUE H. ROBERTS, Englewood, N. J., assignor to Franklin Railway Supply Company, New York, N. Y., a Corporation of Delaware. Original application filed Feb. 26, 1921, Serial No. 448,044. Divided and this application filed Feb. 7, 1924. Serial No. 691,218. 5 Claims. (Cl. 116—125.)



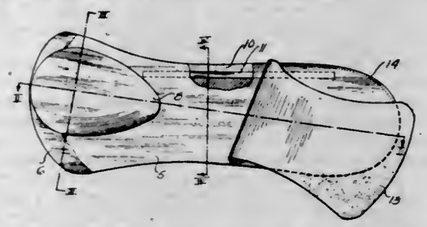
1. A cut-off indicator for power reverse gears comprising in combination, a screw shaft, a nut on said shaft having a protruding indicator thereon and a split casing adapted to house the shaft and nut and providing an elongated opening at the split through which said indicator is adapted to protrude.

1,675,577. FOLDING CHAIR. AARON E. ROSENTHAL and WERNER E. CLARIN, Chicago, Ill., assignors to Beacon Steel Furniture Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 22, 1926. Serial No. 103,769. 6 Claims. (Cl. 155—144.)



2. A chair comprising an upper frame member of two channel bars welded together and having curved edge flanges clamped together to provide a hollow construction, a back rest thereon, and pivot elements swingably mounting said back rest in said frame member and having a upset end concealed within said hollow frame member.

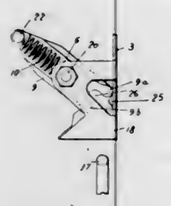
1,675,578. METATARSAL-ARCH-SUPPORTING PAD OR CUSHION. WILLIAM M. SCHOLL, Chicago, Ill. Filed Dec. 1, 1924. Serial No. 753,328. 2 Claims. (Cl. 36—71.)



1. A foot support in the nature of an insole for shoes, consisting of a body layer of material having a pocket formed in its under surface adjacent to one end and

otherwise normally flat throughout, said body layer having a lengthwise slit in one edge terminating short of both ends thereof, a pad in said pocket, a pocket-closing layer of material attached to the lower surface of said body layer, and a thin flat resilient reenforcing strip disposed in said slit and in uniform contact throughout its length with the portions of the body strip above and below its slit.

1,675,579. DOUBLE-ACTING LATCH. RAYMOND PIERRE LOUIS SENG, Paris, France. Filed Apr. 28, 1926, Serial No. 105,324, and in France May 13, 1925. 2 Claims. (Cl. 292—71.)



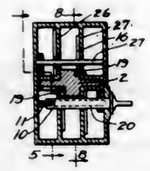
1. In a double acting latch, a fixed latch member, a base having wings supporting a transverse pivot, a slotted latch member mounted upon said pivot and provided at its free end with a seat, a spring extending from the opposite end of said latch to said pivot to project the latch into contact with the base, a hasp member disposed to travel parallel with said base and to enter said seat for retention therein when the latch is shifted to locked position, a guide wall upon said wings, and a projection upon the base opposite said seat when the latch is in open position and disposed to direct said hasp member into said seat.

1,675,580. SIGN. RAY WILBUR SEVERNS and EDWARD WILLIAM TIEMEYER, Lima, Ohio. Filed Dec. 5, 1927. Serial No. 237,823. 1 Claim. (Cl. 40—125.)



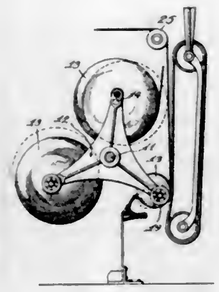
In a signboard structure comprising a frame including a plurality of vertically disposed frame members having their lower ends adapted to penetrate the ground whereby to form a support for the frame, a plurality of horizontally disposed frame members arranged in pairs at the opposite sides of said vertical members and spaced equidistantly throughout the height thereof, angular bolts extending through said vertical and horizontal frame member whereby to secure the same in position with respect to each other, a plurality of vertically disposed rods arranged against the outer edge of said horizontal members and having tie wire arranged to secure said rod in position, a covering of foraminous material disposed at each side of the frame outwardly of the rod and across the top thereof, and adapted to retain a coating of plastic material so as to enclose the frame except at its base portion, the top of the frame being formed with a trough extending longitudinally thereof whereby to form a sharp outline for the upper edge thereof, said trough being provided with a preservative coating.

1,675,581. LOCK. JOHN C. SHERRY, Wilmington, Calif. Filed June 2, 1925. Serial No. 34,321. 3 Claims. (Cl. 70—14.)



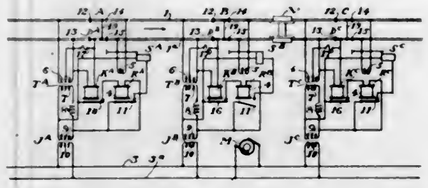
1. In a multiple stage lock, a plurality of compartments, partitions between the compartments, angularly disposed key openings in the said partitions, closures for each of the said openings, and locking means for engaging the said closures, said openings being adaptable to receive a flanged key which will operate the said closure locks as it passes therethrough.

1,675,582. ATTACHMENT FOR PRINTING PRESSES. IRVING I. STONE, Chicago, Ill. Filed Apr. 11, 1927. Serial No. 182,729. 15 Claims. (Cl. 242—58.)



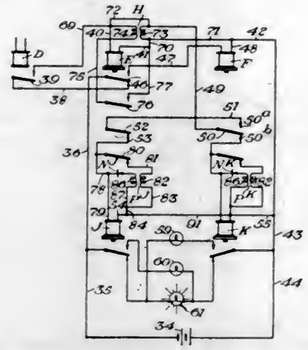
1. The combination with a rotatable reel for supporting the running roll and the fresh roll of a web roll supply apparatus, of automatic means disposed in the path of said running roll as said reel is rotated for severing the web from said running roll when it is desired to feed the new web from said fresh roll.

1,675,583. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. HOWARD A. THOMPSON, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Aug. 26, 1926. Serial No. 131,627. 4 Claims. (Cl. 246—34.)



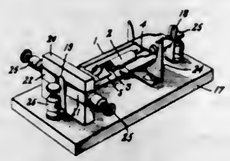
1. In combination, a stretch of railway track divided into two track sections by a short intermediate portion of track separated from both such sections by insulated joints in the track rails, a jumper for connecting the rails of such intermediate portion together, an impedance connected across the rails of one section, means for connecting an intermediate point of the impedance with a rail of the intermediate portion, means for creating an alternating electromotive force across the rails of such one section, and a relay connected across the rails of the other section.

1,675,584. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. HERBERT A. WALLACE, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 7, 1925. Serial No. 60,959. 22 Claims. (Cl. 246—63.)



1. In combination, a stretch of railway track, means for supplying said stretch with energy in the form of a series of impulses each separated from the preceding impulse by a time interval, and governing means selectively responsive to the time interval between a given point in each such impulse and a different point in the following impulse.

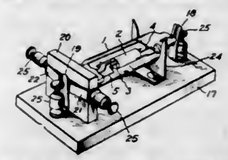
1,675,585. ELECTRON-DISCHARGE APPARATUS. WILLIAM C. WHITE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 5, 1922. Serial No. 566,024. 1 Claim. (Cl. 250—27.5.)



An electron discharge device having cathode, grid and anode electrodes, leading-in conductors for said cathode and grid electrodes extending from one end of said device, a leading-in conductor for said anode extending from the opposite end of said device and a plurality of spring contact members extending into one plane adapted to make contact with the ends of the leading-in conductors for the grid and cathode leading-in conductors, and a single contact member extending in a parallel plane and adapted to make contact with the end of the leading-in conductor for the anode.

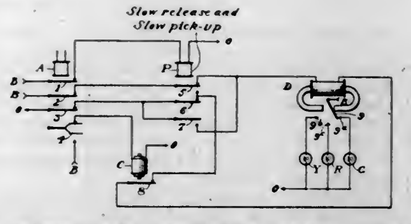
1,675,586. ELECTRON-DISCHARGE APPARATUS. WILLIAM C. WHITE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Original application filed June 5, 1922, Serial No. 566,024. Divided and this application filed Mar. 27, 1924. Serial No. 702,450. 1 Claim. (Cl. 173—328.)

A mounting for an electron discharge device comprising a base member, a pair of flexible contact members mounted thereon, a supporting member provided with an opening, a pair of spring contacts mounted on the supporting member at opposite sides of said opening, said spring contacts and one of said flexible contact members being located in substantially the same plane,



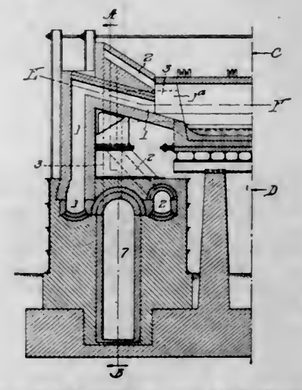
the other of said flexible contact members being mounted in a plane substantially parallel to the first mentioned plane.

1,675,587. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. DONALD G. ACKERLY, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 14, 1926. Serial No. 135,463. 5 Claims. (Cl. 246—62.)



1. Railway traffic controlling apparatus comprising a main relay periodically closed for relatively short or relatively long intervals, a pole-changing relay energized while said main relay is closed but arranged to close only when the main relay is closed for relatively long intervals, a polarized relay, means operating when said main relay is closed to energize said polarized relay in one direction or the other according as said pole-changing relay is open or closed, and traffic governing mechanism controlled by said polarized relay.

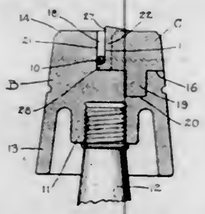
1,675,588. REVERSIBLE REGENERATIVE FURNACE. JAMES STANLEY ATKINSON, London, England, assignor, by mesne assignments, to Open Hearth Combustion Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 8, 1921, Serial No. 490,697, and in Great Britain Sept. 22, 1913. 13 Claims. (Cl. 263—15.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. An open-hearth furnace comprising, in combination, a hearth, a combined fuel and air port at each end of the furnace of relatively small width as compared with

the hearth, regenerative chambers having communication with said ports, additional channels leading from the regenerative chambers to the interior of the furnace adjacent the ends thereof, and means for causing the entire air passing through the regenerative chamber at the inlet end of the furnace to pass through the combined fuel and air port.

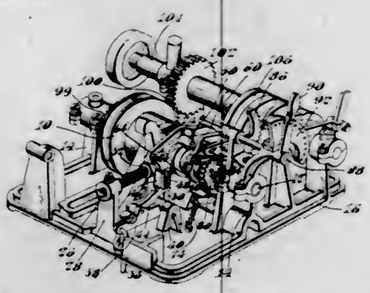
1,675,589. INSULATOR. OLIVER DAVID BABINEAU, Minneapolis, Minn. Filed Dec. 7, 1925. Serial No. 73,576. 7 Claims. (Cl. 173—314.)



1. An insulator comprising a body portion having an abutment formed with a depression for receiving a wire, a member pivoted to said body portion having a hump extending into said depression to engage a wire therein, said hump extending above the body portion and providing a guide for the insertion of the wire between said body portion and said member, said member being movable to clamp said wire and hold it from longitudinal movement in either direction.

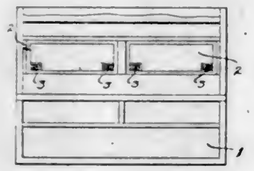
3. An insulator comprising a body having a part of the upper top thereof removed to leave a segmental shaped head and to form a rabbet opposite said head, a complemental head member of segmental shape positioned in said rabbet adjacent said segmental shaped head and being spaced therefrom to form a transverse groove for the reception of a wire, said segmental shaped head having a depression therein, and said complemental head member having a protuberance extending into said depression and engaging said wire, a socket formed in said body, and a trunnion formed on said complemental head member fitted within said socket for pivoting said complemental member on said body portion, said trunnion being disposed so as to throw said protuberance toward the wall of the depression at either side thereof upon movement of the complemental head member and wedge said wire against said wall to hold the wire against movement in either direction.

1,675,590. STOP MECHANISM. LEWIS J. BAZZONI, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Mar. 1, 1920. Serial No. 362,543. Divided and this application filed Apr. 5, 1924. Serial No. 704,519. 13 Claims. (Cl. 192—139.)



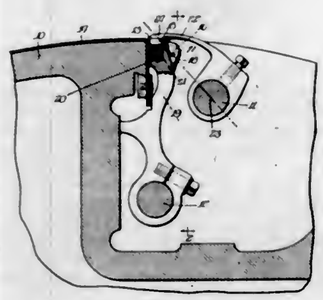
2. In a machine of the character described, a shaft, a driving member normally operatively connected to the shaft, normally inoperative means for disconnecting said member from the shaft, an actuator sleeved on the shaft for rendering said means operative to disconnect said member from the shaft, a ratchet wheel operatively connected to said actuator, and means adapted to be operatively connected to said ratchet wheel to impart step by step movement to said actuator.

1,675,591. CYLINDER DOOR LATCH. DANIEL BELL, Chicago, Ill., assignor to Invincible Laundry Equipment Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 25, 1926. Serial No. 131,333. 2 Claims. (Cl. 292—175.)



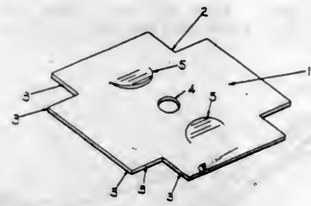
1. In a cylinder latch, a casing, a latch bolt slidable in said casing, said latch bolt having a finger piece and a lug projecting rearwardly of said finger piece, a cover plate secured to the bottom of the casing and having an upwardly offset portion defining a guideway for receiving said lug, and a spring cofined in said guideway at the rear end of said lug, said cover having an abutment adjacent said finger piece whereby the operator may grasp said finger piece and abutment for withdrawing said bolt.

1,675,592. GRIPPER MECHANISM. JOSEPH R. BLAINE, Oak Park, Ill., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 12, 1926. Serial No. 101,314. 7 Claims. (Cl. 101—412.)



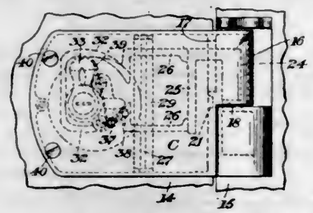
1. In gripper mechanism, the combination of a bodily movable gripper pad member, and a cooperating gripper member between which gripper members a sheet may be gripped, said gripper members being pivotally mounted on different relatively fixed centers in a manner whereby their gripping surfaces have practically no relative movement after the sheet is engaged thereby, to maintain the proper position of the sheet.

1,675,593. FLOOR SHIM. JOHN A. BOHNSACK, Cleveland Heights, Ohio, assignor to The E. F. Hauserman Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 17, 1927. Serial No. 220,118. 2 Claims. (Cl. 20—4.)



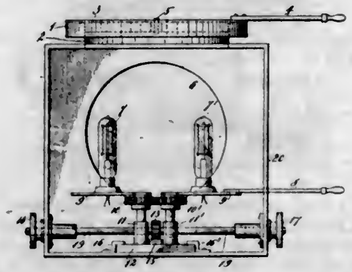
1. A floor shim for metallic building units contoured to provide maximum support for the superposed structure, and to not interfere with concealing elements of the structure located thereabout.

1,675,594. LOCK. AUGUST BOUCHERY, Brooklyn, N. Y., assignor of one-half to John O. Seifert, Auburndale-Flushing, N. Y. Filed Dec. 15, 1925. Serial No. 75,485. 13 Claims. (Cl. 70—29.)



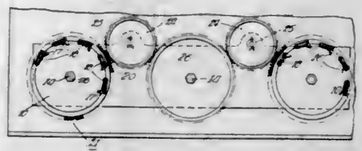
1. In a lock, the combination of a casing, a locking bolt therein; a hand operated knob rotatably carried by the casing having operative connection with bolt actuating means within the casing operable by the manipulation of the knob to throw the bolt to locking and unlocking position; and a key barrel arranged with means for operative connection with the bolt actuating means operable through the movement of the key barrel by the manipulation of a key inserted therein, said connecting means of the barrel with the bolt actuating means being arranged to lock the actuating means against operation by the knob in one bolt locking position of the barrel and permit actuation of the bolt by the knob in another bolt locking position of the barrel.

1,675,595. LAMP HOUSE. CHARLES BOUIN, Boston, Mass. Filed June 24, 1922, Serial No. 570,627. Renewed Nov. 30, 1927. 1 Claim. (Cl. 88—24.)



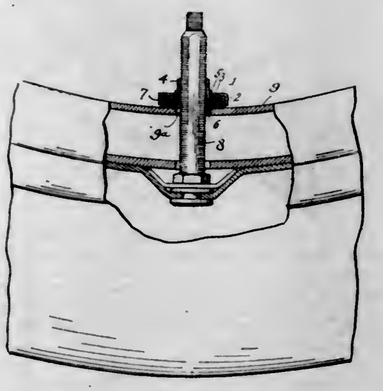
In a lamp housing, a pair of spaced apart brackets, a gear fixed to each bracket and the gears intermeshing for simultaneously moving the brackets, a lamp mounted on each bracket, and a handle on one of brackets for swinging the same to turn both brackets simultaneously to adjust the lamps.

1,675,596. VARIABLE-PITCH GEAR. CLIFFORD C. BRADBURY, Glencoe, Ill. Filed Mar. 18, 1926. Serial No. 95,543. 7 Claims. (Cl. 74—7.)



1. A gear wheel or sector comprising grooved pulley, a coiled spring lying within the groove of said pulley, the convolutions of said spring forming the cogs of the gear wheel or sector and means for shifting a portion of the spring along the groove of the pulley.

1,675,597. RIM NUT. ADELBERT E. BRONSON, Cleveland, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 31, 1924. Serial No. 758,983. 3 Claims. (Cl. 85—32.)

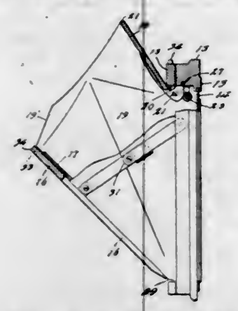


1. A rim nut comprising a cup-shaped portion, having a central opening therein, a member provided with fingers extending through the said opening, certain of said fingers being bent outwardly into engagement with the under surface of said cup-shaped portion and substantially into engagement with the inner walls of the latter to prevent relative rotation therebetween, and a packing member surrounding said extending fingers and within the cup-shaped portion.

1,675,598. CAMERA FOCUSING ATTACHMENT. RUDOLPH CHETTEVILLE, New York, N. Y. Filed Apr. 15, 1927. Serial No. 184,170. 6 Claims. (Cl. 95—47.)

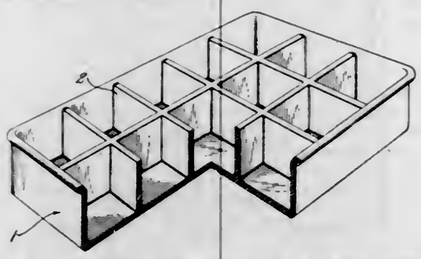
1. A camera attachment comprising a ground glass frame, a reflector frame, means hingedly connecting the bottom edges of said frames, a hood frame hingedly connected to the upper edge of the ground glass frame, collapsible sides connecting the adjacent edges of the reflector frame and the hood frame and coacting therewith to form a collapsible hood having a sight opening and said hood frame mounted for swinging movement from a position extending upwardly from the ground glass frame when the hood is distended into a depending position contained within the hood when the hood is collapsed, a spring between the ground glass frame and the hood

frame and tending to swing the hood frame from its depending into its upstanding position and thus tending to distend the hood and releasable means for securing



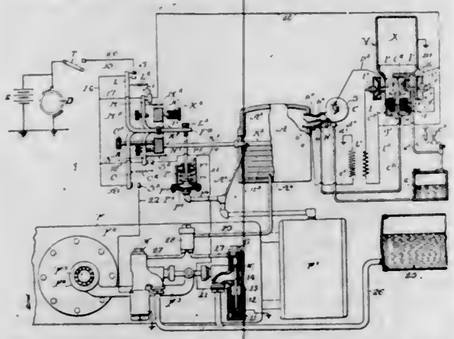
the reflector frame to the ground glass frame and thus secure the hood in collapsed position against the opening tension of said spring.

1,675,599. SHARP-FREEZING CONTAINER FOR MECHANICAL REFRIGERATORS. LLOYD G. COPEMAN, Flint, Mich. Filed May 3, 1928. Serial No. 274,717. 10 Claims. (Cl. 62—111.)



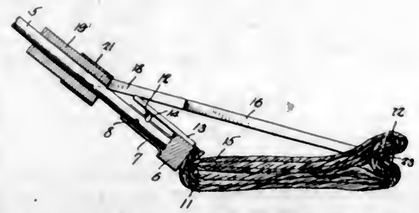
1. As a new article of manufacture, a sharp freezing container of the type adapted to be positioned in heat conducting relation with the low side of a mechanical refrigerating system and formed of material not readily wettable by water, part of the container being of non-metallic flexible material to permit easy removal of the frozen article or articles.

1,675,600. STEAM-GENERATOR REGULATION. ABNER DOBLE, Detroit, Mich., assignor to Doble-Detroit Steam Motors Co., Detroit, Mich., a Corporation of Delaware. Filed May 9, 1918. Serial No. 233,486. 15 Claims. (Cl. 122—448.)



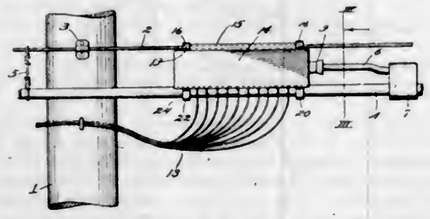
1. In a system for the control and regulation of steam for a steam power plant, means for initiating a supply of water to the generator upon attainment of a predetermined degree of steam temperature, and means for increasing the water supply upon attainment of a still higher predetermined degree of steam temperature.

11,675,601. MOP. JOHN W. DOTY, Olney, Ill. Filed July 5, 1927. Serial No. 203,478. 3 Claims. (Cl. 15—120.)



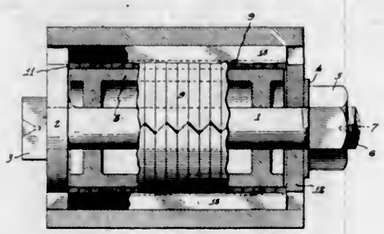
1. A mop including a handle, a clamp at one end of the handle, a frame including a block and body portion, said body portion being pivotally connected with the block, said block being slidably mounted for movement longitudinally of the handle, mop strands connected with the outer end of the frame, said clamp adapted to secure the mop strands to the handle portion, and said mop strands adapted to be twisted to wring the mop, when the block and frame are rotated relative to the handle.

1,675,602. SUSPENDED AERIAL-CABLE TERMINAL. WILLIAM N. FAUST, Kansas City, Mo. Filed Oct. 19, 1925. Serial No. 63,429. 3 Claims. (Cl. 247—1.)



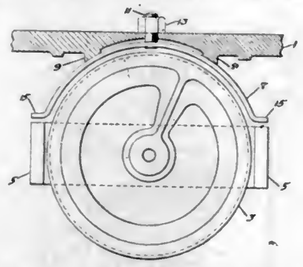
1. A terminal box having a clamp adapted for rigid engagement with a feeder cable and also being provided with means adapted for supporting and sliding connection with a suitable support, and a tail connection between said box and cable.

1,675,603. PISTON-RING CLAMPING DEVICE. HARRY S. GRAVES, Detroit, Mich. Filed Sept. 16, 1926. Serial No. 135,808. 5 Claims. (Cl. 29—89.)



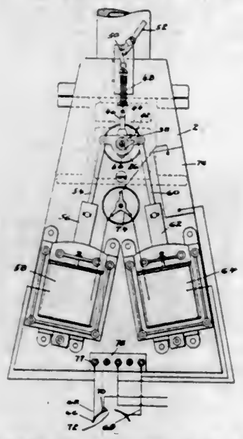
1. In a tool for exerting closing pressure upon piston rings, a holder for the piston rings, a casing adapted to be placed about the piston rings on the holder to exert pressure on the piston rings, invertible strips of yieldable material in said casing adapted to bear on the piston rings of said holder, and means at the ends of said holder adapted for clamping the piston rings on said holder.

1,675,604. CALIBRATION. EDWIN A. GUSTAFSON, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Apr. 28, 1926. Serial No. 105,137. 7 Claims. (Cl. 264—13.)



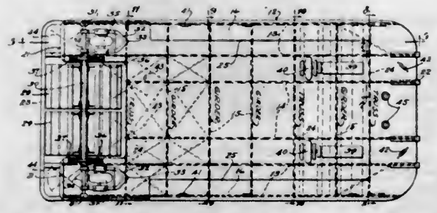
1. In a measuring instrument, a magnet, a magnet shunt having its ends positioned one adjacent each pole of the magnet, means including fixed fulcrums and a single intermediate adjusting member to distort the shape of the shunt to vary the spacing of its ends from the poles.

1,675,605. HEAT-CONTROLLING APPARATUS. FLOYD E. HARRIS, Flint, Mich. Filed Oct. 7, 1925. Serial No. 61,085. 14 Claims. (Cl. 236—74.)



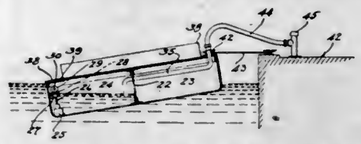
1. In a regulator for a burner of the type to which fuel and air are supplied by separate conduits provided with valves, means for biasing said valves to one position and thermally controlled means for simultaneously moving said valves to another position, said last named means comprising an electromagnet.

1,675,606. BOAT. FRANCIS M. HENRY, Minneapolis, Minn. Filed Feb. 3, 1927. Serial No. 165,555. 17 Claims. (Cl. 115—53.)



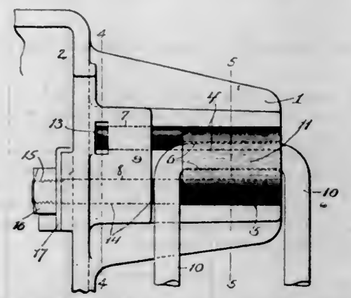
1. A boat hull, a paddle wheel having a shaft mounted on the hull, a motor, and driving connections from the motor to the paddle wheel, said motor being mounted in part on said shaft to partake of angular movements therewith in respect to the hull to keep said driving connections aligned.

1,675,607. SELF-DUMPING BARGE. FRANCIS M. HENRY, Minneapolis, Minn. Filed Feb. 3, 1927. Serial No. 165,556. 5 Claims. (Cl. 114—38.)



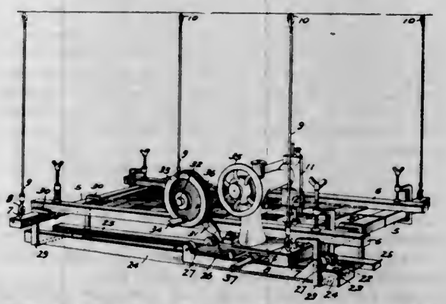
1. A self-dumping barge having a flat deck with side boards, one of which is hinged to the deck at its lower longitudinal edge for outward swinging movement onto the deck, said deck outward of its hinged side board being countersunk to receive said side board with its upper face substantially flush with the top of the deck.

1,675,608. BRAKE HANGER. GEORGE T. JOHNSON, Columbus, Ohio, assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Filed May 26, 1925. Serial No. 32,978. 4 Claims. (Cl. 188—209.)



1. In brake mechanism, the combination of a bracket having a rib thereon and grooves above and below the rib parallel therewith, a brake hanger having its upper end seating upon said rib, a keeper spanning the end of the hanger and the rib and having its side edges engaged in the grooves, said grooves and side edges being of counterpart contour whereby to permit endwise but prevent sidewise movement of the keeper, and means to prevent endwise movement of the keeper.

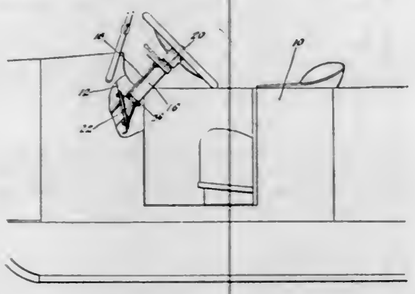
1,675,609. QUILTER. LAWRENCE E. KELLEY, Blue Ridge, Tex. Filed Sept. 11, 1926. Serial No. 134,879. 2 Claims. (Cl. 112—117.)



1. In a quilting machine, a quilting frame embodying end rails and side rails, means for adjustably connecting

the end rails and side rails, a track including parallel bars, spaced apart, supporting arms to which the bars of the track are secured, said supporting arms having hooks at their upper ends positioned over the end rails of the quilting frame, and adapted to be slid longitudinally of the end rails, a sewing machine embodying a base having rollers adapted to move over the track, and means for suspending the frame from an elevated supporting structure.

1,675,610. STEERING-COLUMN SUPPORT. WILLIAM S. KNUDSEN, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 12, 1924. Serial No. 712,751. 2 Claims. (Cl. 280—87.)



1. A steering column support in the form of an integral sheet metal stamping having a flange arranged to engage and be secured to a dash, a generally conical base extending therefrom with its axis at an acute angle to the plane of the flange, the base culminating in a coaxial sleeve arranged to embrace and hold a steering column, and the flange being formed with a pair of drawn sleeves or perforated bosses to support the spark and throttle control rods as described.

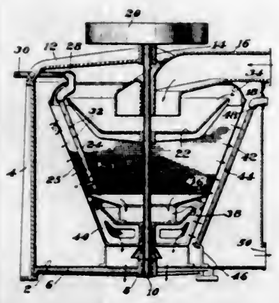
1,675,611. METHOD AND APPARATUS FOR REDUCING CARBON MONOXIDE IN MOTOR-EXHAUST GASES. EDWARD J. LACY, New York, N. Y. Filed May 17, 1926. Serial No. 109,713. 11 Claims. (Cl. 123—25.)



1. The combination with an internal combustion engine; of piping leading to the fuel inlet passage of the engine from the interior of the exhaust gas passage of said engine, a portion of said piping being disposed longitudinally in said exhaust passage and being formed with longitudinally spaced perforations for the purpose set forth.

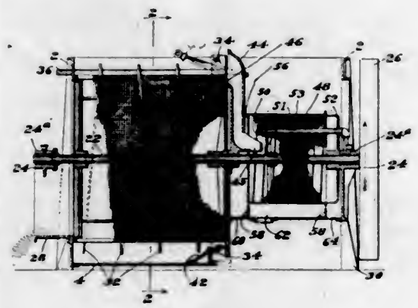
1,675,612. SCREEN FOR PAPER MAKING. ISAAC LAUREN LAIRD, South Walpole, Mass., assignor to Bird Machine Company, South Walpole, Mass., a Corporation of Massachusetts. Filed July 22, 1927. Serial No. 207,642. 15 Claims. (Cl. 92—34.)

1. In a centrifugal machine of the class described, having, in combination, a screen adapted to be rotated about an axis, means to distribute stock about the inside of the screen near one end, a shower adapted to clear clogged apertures in said screen, means to collect unscreened material and distribute it about the inside of a



screening section, whereby said material is subjected to a second screening operation, and means to separately conduct the accepted stock and tailings from the screen.

1,675,613. SCREEN FOR PAPER MAKING. ISAAC LAUREN LAIRD, South Walpole, Mass., assignor to Bird Machine Company, South Walpole, Mass., a Corporation of Massachusetts. Filed July 22, 1927. Serial No. 207,643. 5 Claims. (Cl. 92—36.)

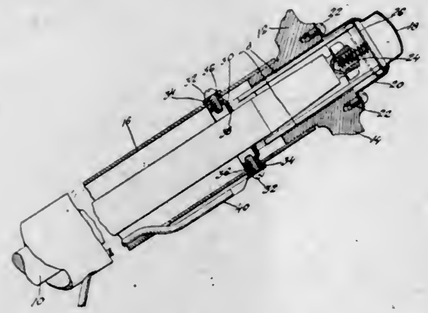


1. A machine of the class described, having, in combination, a vat, a rotary screen of the inflow type located therein, a spirally arranged member carried by the screen upon its exterior, serving to urge coarser particles of the stock along the outside of the screen and lengthwise of the vat, and a series of perforate members upon the exterior of and carried by said screening drum, adapted to elevate and discharge said coarser particles into a second screening drum, adapted to against screen said coarser particles.

1,675,614. CIRCUIT-CONTROLLING DEVICE. ALBERT R. LEWELLEN, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Original application filed June 14, 1923, Serial No. 645,325. Divided and this application filed Mar. 7, 1925. Serial No. 13,765. 8 Claims. (Cl. 200—59.)

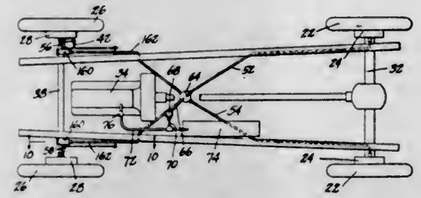
1. A controlling device comprising, in combination, a rotatable steering post, a steering wheel secured to the upper end thereof, a stationary protecting sleeve surrounding the steering post, an annular contact member secured to the protecting sleeve of its inner side and below its upper end, and which member surrounds and is

spaced from the steering post, and a circuit closing device including a cooperating contact member eccentrically mounted in the steering wheel and displaceable in a direc-



tion parallel to the axis of the steering post to cause its lower end to engage directly with different parts of the annular contact member.

1,675,615. CONTROL MECHANISM. WILLIAM LINCOLN MARTIN, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Jan. 17, 1924. Serial No. 686,936. 59 Claims. (Cl. 188—152.)



32. A vehicle having, in combination, a pair of dirigible wheels, brakes therefor, steering mechanism, conduits for applying the brakes by fluid pressure, and means automatically operated when the wheels are turned by the steering mechanism and which varies the pressure in the conduit for one of the brakes without affecting the pressure in the conduit for the other brake.

1,675,616. ROTARY BRUSH. RUDOLF R. RADINSE, Cleveland, Ohio. Filed Mar. 12, 1927. Serial No. 174,849. 6 Claims. (Cl. 15—179.)



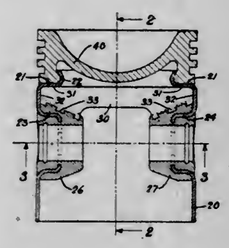
3. A brush comprising a ring, clips extending around the ring and having projecting tongues at opposite sides thereof, and bunches of brush material folded around said ring and clips, the tongues being bent down upon said material at opposite sides of the ring and having interlocking portions to prevent disengagement of the tongues.

1,675,617. ROTARY WIRE BRUSH. RUDOLPH R. RADINSE, Cleveland, Ohio. Filed Sept. 29, 1927. Serial No. 222,800. 1 Claim. (Cl. 15—198.)



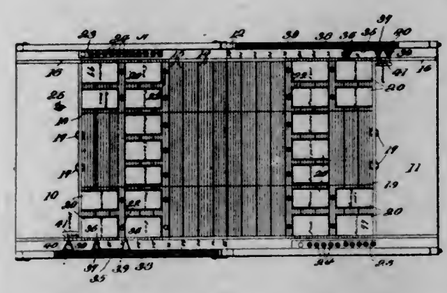
A brush comprising a metal plate having oppositely offset tongues at the edge, a plurality of tufts each comprising a plurality of wires twisted together at their middle portion, said portion being bent double, a ring in the bend between said twisted portions, and outer rings on opposite sides of said twisted portions, the tongues being pressed against said outer rings to clamp the parts together, said ring being notched to receive the bend of the tufts.

1,675,618. COMPOSITE PISTON. CHARLES R. SHORT, Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Feb. 23, 1926. Serial No. 90,160. 5 Claims. (Cl. 74—108.)



1. A composite piston comprising a skirt member; a head cast on the skirt; wrist pin lugs also cast on said skirt; and means interposed between the lugs separate from said head for increasing their rigidity.

1,675,619. GAME. HAROLD A. SORLIEN, Pasadena, Calif. Filed Aug. 21, 1926. Serial No. 130,713. 15 Claims. (Cl. 273—94.)

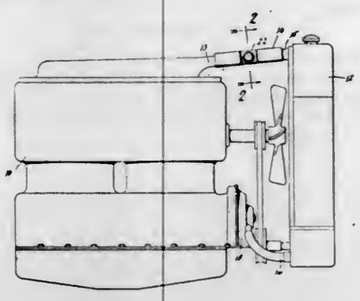


1. The combination with a game board having division lines indicated thereon representing uniform units of value, a normally stationary game piece having means for removably engaging said game board at any position thereon to indicate progress of the game, and two sets of duplicate playing cards, one set for each player of the

game, each set of cards containing numerical value indicia, correlated with the units of value indicated on the board, so that the difference in the numerical values of any two cards played in succession by the respective players will indicate the distance and direction that the game piece is to be shifted on said board.

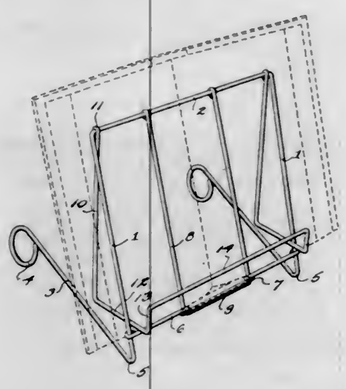
13. The combination with a game board having enclosing sides, one of which is provided with angularly disposed intersecting slots extending longitudinally thereof, of an indicator member having angularly related portions slidably mounted in said slots so that one of said angular portions may project over the face of said board and be moved with respect thereto.

1,675,620. THERMOSTATIC WATER VALVE. LOUIS M. SPENCER, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 21, 1927. Serial No. 193,270. 19 Claims. (Cl. 236—34.)



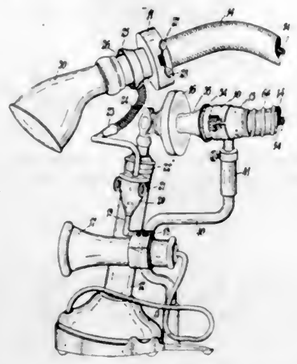
5. In a cooling system, a valve casing having a passag. therethrough, a tubular valve-carrying shaft pivoted in said passage, a fixed element coaxial with said tubular shaft, and a thermostat connecting said fixed element and tubular shaft.

1,675,621. BOOKHOLDER. WILLIAM W. SPENCER, Kendallville, Ind. Filed July 10, 1926. Serial No. 121,656. 1 Claim. (Cl. 45—57.)



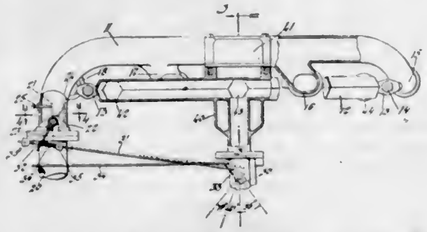
In a device for the purpose set forth, a wire frame comprising an outer substantially U-shaped part, the parallel arms of which are rounded and extend rearwardly at an upward angle and merge into downwardly rounded portions providing with the first mentioned rounded portion feet, a cross member connecting the sides of the frame, strands extending vertically and connecting the cross member with the top of the frame, a swingable holder hinged from said top having horizontal portions extending through the frame, said horizontal portions being provided with bent-up portions connected by a transverse portion at the front of the frame.

1,675,622. TELEPHONE ACCESSORY. DOUGLAS STUART SPENS STEUART, London, England. Filed Nov. 17, 1927, Serial No. 233,973, and in Great Britain June 14, 1926. 12 Claims. (Cl. 179—178.)



1. In combination, a telephone transmitter, a mouthpiece, a flexible tube connecting said transmitter to said mouthpiece, and a self-sustaining flexible support located inside the tube for maintaining said tube and mouthpiece in any adjusted position.

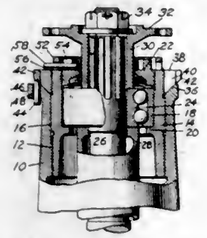
1,675,623. INTERNAL-COMBUSTION ENGINE. ALEX TAUB, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Feb. 14, 1925. Serial No. 9,256. 5 Claims. (Cl. 123—119.)



1. In an internal combustion engine an exhaust manifold having a discharge aperture constituting the sole outlet for exhaust gases from said engine, an intake conduit for combustible mixture, a valve in said outlet, a valve in said conduit, and means connecting the valves, said means being constructed and arranged to operate the first mentioned valve only during an intermediate portion of the operation of the second valve.

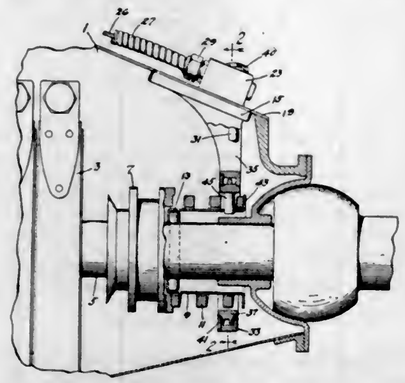
1,675,624. LOCKING DEVICE. HERBERT BERNARD TAYLOR, Syracuse, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Jan. 30, 1925. Serial No. 5,794. 5 Claims. (Cl. 74—7.)

1 In a device of the character described, in combination, a tubular carrier having a flange at one end, a sleeve adjustably mounted in said carrier, a locking ring threaded on said sleeve and having a plurality of spaced lugs, a locking pin to engage between adjacent lugs, and



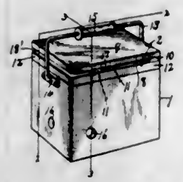
said flange having openings spaced apart a distance different from the spacing of said lugs and adapted to selectively receive said locking pin.

1,675,625. FORD TRANSMISSION SPEEDOMETER DRIVE. HARRY TITTENSOR, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Oct. 7, 1926. Serial No. 140,120. 5 Claims. (Cl. 74—7.)



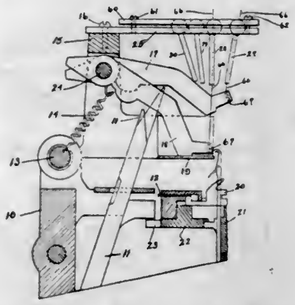
1. In an instrument drive, a gear casing, a driven shaft therein, a removable cover therefor, a power take-off attachment positioned beneath said cover, means to secure said attachment to said cover, mechanism carried by said attachment for operating an instrument, a gear for actuating said mechanism supported by said attachment and surrounding but out of contact with said driven shaft, means whereby said gear is rotated by said shaft.

1,675,626. RADIO BATTERY-CHARGING CABINET. ARTHUR S. TUTTLE, Sherburne, N. Y. Filed July 24, 1926. Serial No. 124,658. 1 Claim. (Cl. 217—42.)



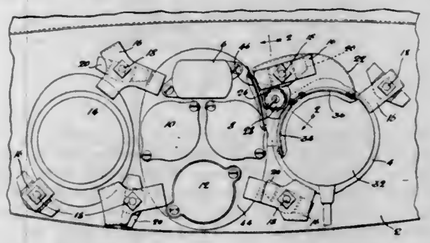
In a device of the class described, a box, a cover for the box, a transverse partition dividing the interior of the box into two compartments, a plurality of holes in the outer sides of one of said compartments located below the horizontal center of the box, open spaces between the cover and the top of the outside walls of said compartment, open spaces between the cover and the opposed outside walls of the other compartment, and a lengthwise opening in the top of the partition constituting the only means of communication between the compartments.

1,675,627. YARN DIRECTOR FOR KNITTING MACHINES. JAMES A. WILLARD, Greensboro, N. C. Filed Apr. 14, 1927. Serial No. 183,794. 8 Claims. (Cl. 66—125.)



2. In a knitting machine, means for insuring an uninterrupted and unaccompanied travel of each strand of yarn to the yarn changing fingers, said means comprising a plurality of tubes, said tubes being pivotally secured at their upper ends to a plate and being capable of being swung laterally in any direction.

1,675,628. ILLUMINATED INSTRUMENT PANEL. JOSEPH ZUBATY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Feb. 28, 1927. Serial No. 171,602. 3 Claims. (Cl. 240—8.16.)

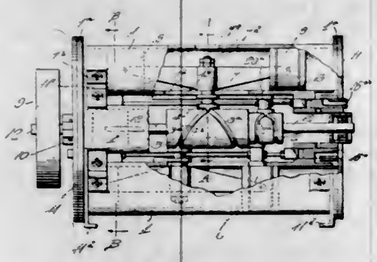


1. The combination of an instrument panel, an instrument mounted on the panel comprising a housing including a portion extending rearwardly of the panel, said last named portion being apertured at separated points to permit the passage of light into the housing for the illumination of the dial, a light source at the rear of the panel arranged for the projection of light upon the dial through one of said apertures and a reflector associated with said light source and arranged to project light into said housing through another of said apertures from a different angle to produce even illumination.

1,675,629. ENGINE CONSTRUCTION. ALBERT ANDREWS, Spearfish, S. Dak. Filed June 29, 1926, Serial No. 119,384, and in Canada December, 1925. 3 Claims. (Cl. 123—58.)

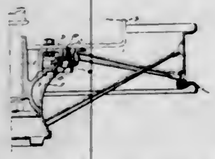
1. An engine comprising a shaft, two end plates having centrally arranged bearings for the shaft and having their edges formed with curved seats and inturned flanges, a plurality of parallel cylinders arranged around

the shaft and having flanged ends detachably engaged with said seats, the cylinders also having at their intermediate portions longitudinal slots and at their end portions outwardly projecting lugs detachably secured to the inturned flanges on the end plates, guide-ways on the cylinders adjacent their slots, a pair of pistons in each cylinder, a piston rod connecting the pistons of each pair, cross heads on the piston rods and slidable in the



guide-ways, a cylindrical enlargement on the shaft having a continuous cam groove extending a plurality of times around the enlargement, a traveler on each cross head to engage the cam groove, a valve mechanism at each end of each cylinder and detachable therewith, a slidable valve-operating rod for the valve mechanisms of each cylinder, a second cylindrical enlargement on the shaft and having a continuous cam groove, and members on said valve rods to engage the last-mentioned groove.

1,675,630. DISK WHEEL. CHARLES S. ASH, Detroit, Mich. Filed June 29, 1923. Serial No. 648,440. 6 Claims. (Cl. 301—9.)



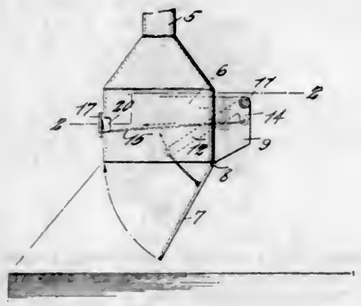
3. A demountable wheel structure including a hub structure having an outwardly extending flange adjacent its inner end, said flange being formed with a plurality of screw-threaded openings to receive bolts or studs and said hub structure being formed with a plurality of spaced-apart seats having said openings therein, for a demountable wheel to seat thereon having openings to register with said openings in said flange at said seats, and bolts to engage said registering openings to demountably secure said wheel upon said spaced-apart seats.

1,675,631. OIL COMPOSITION AND PROCESS OF RETARDMENT DEVELOPING OF RANCIDITY THEREIN. WALTER D. BALDSIEFEN, Parlin, N. J., and THOMAS HUNTON ROGERS, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 9, 1922. Serial No. 542,461. 28 Claims. (Cl. 134—79.)

4. A composition of matter comprising nitrocellulose, a vegetable oil, and an aromatic amine.

1,675,632. EGG-CANDLING DEVICE. RICHARD J. BELLMAN, Winfield, Kans. Filed July 11, 1927. Serial No. 204,815. 4 Claims. (Cl. 99—6.)

1. In a candling device, a casing adapted to have a source of light, the said casing having an opening in its wall, a shutter hinged to the casing at its lower end for opening and closing the said casing, an apertured mask movably mounted with relation to the



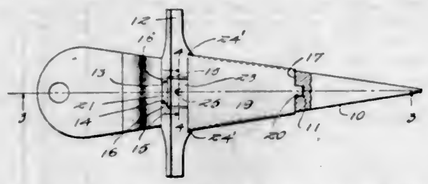
aperture of the casing and adapted to guard and unguard the aperture, and means for communicating the motion of the mask to the shutter.

1,675,633. DOOR. JOSEPH BOCA, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Nov. 18, 1925. Serial No. 69,834. 3 Claims. (Cl. 296—44.)



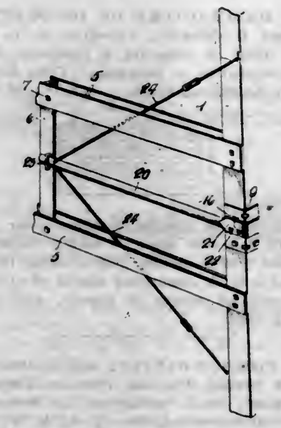
1. A metal door construction comprising a front member having upper and lower flanges forming the top and bottom of the door respectively, side members each having one edge thereof in interlocking engagement with the lateral edges of the front member, said side members being formed adjacent the opposite edges thereof to provide a channel, a brace connecting one of the legs of said channels and a panel member fitting in said channels.

1,675,634. CUTTER GUARD AND LEDGER PLATE. ENDRE A. BOE, Watford City, N. Dak. Filed May 18, 1927. Serial No. 192,419. 2 Claims. (Cl. 56—311.)



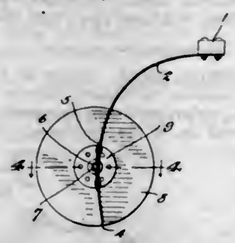
1. A guard finger having a ledger plate seat and a transverse rib rearwardly of said seat, said rib having a central notch the walls of which incline, and a ledger plate on the said seat and having a lug engaged in said notch and having its side portions inclined in correspondence with the walls of the notch, and a locking key engaged in the notch above the lug.

1,675,635. OIL-WELL DERRICK. ARLAN L. BOWERS, Bristow, Okla., assignor to Frank M. Mahan, Pawhuska, Okla.; Earnest McCarty, Wynona, Okla.; and Carl H. Besse, Burbank, Okla. Filed July 5, 1923. Serial No. 649,746. 3 Claims. (Cl. 20—0.5.)



1. In a derrick, trussed throughout its height, relatively superposed and spaced parallel bracing bars spanning one side of the derrick and connected at their opposite ends to adjacent portions of the correspondingly adjacent derrick legs, vertically disposed and relatively spaced bars arranged between said bracing bars and connected at their opposite ends to adjacent portions of said bracing bars, forming a walking beam receiving window therebetween, short girths arranged between said bracing bars substantially parallel thereto having their respective outer ends connected to adjacent portions of said derrick legs and their respective inner ends engaged with said vertical bars and bracing means engaging said inner ends of the short girths.

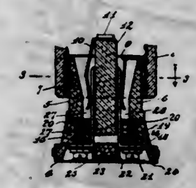
1,675,636. CULTIVATOR. JULIUS L. BRACK, Twining, Mich. Filed Jan. 21, 1927. Serial No. 162,540. 2 Claims. (Cl. 97—209.)



1. A cultivator including a pair of spaced spring strips constituting soil engaging teeth, and a combined cutting and guiding disk between and supported by said teeth, said disk being extended forwardly beyond the lower end portions of the teeth and downwardly between and below the points of the teeth.

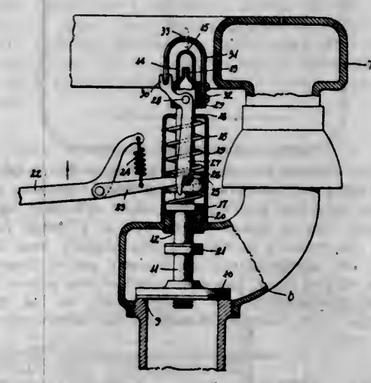
1,675,637. ADAPTER AND PLUG FOR CUT-OUTS. WILLIAM P. BRIGGS, New Bedford, Mass. Filed Aug. 4, 1926. Serial No. 127,132. 5 Claims. (Cl. 200—130.)

1. A fuse plug and adapter for screw sockets of cut-outs, comprising an adapter formed with a body having a pair of openings extending entirely therethrough and a post extending outwardly from that part of the body between said openings, a screw contact shell secured to the outer part of said body, an end contact secured to the inner end of that part of the body between said openings, a resilient contact member extending from said shell into one of said openings, a second resilient contact member extending from said end contact into



the other of said openings and a fuse plug co-acting with said adapter, said fuse plug having a pair of spaced prong contacts adapted to extend into said openings and into engagement with the contact members in said openings, said fuse plug being formed with an opening for receiving said post, and means for securing the respective ends of a fuse to said prong contacts.

1,675,638. PILOT-LIGHT-CONTROLLED GAS VALVE. FREDERIC H. BRINKERHOFF, Belleville, N. J. Filed Dec. 27, 1926. Serial No. 157,281. 10 Claims. (Cl. 67—116.)

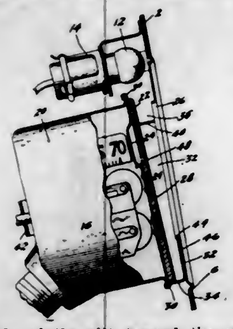


1. The combination of a burner and a gas supply conduit for the burner, a pilot light tube extending to the exterior of the burner and having a portion extending within said conduit and movable longitudinally of itself, and a valve on said portion of the tube and seatable in said conduit for shutting off the flow of gas through said conduit.

1,675,639. INSTRUMENT PANEL. ALBERT CHAMPION, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed July 2, 1926. Serial No. 120,240. 8 Claims. (Cl. 240—8.16.)

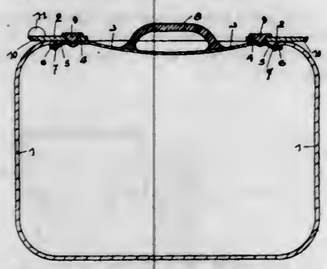
1. The combination of an automobile instrument panel, an instrument mounted on the panel, a face plate for the instrument, said face plate having an aperture for the display of the dial, a light source arranged at one side of the instrument, said face plate being formed with an aperture adjacent the first named aper-

ture and facing the light source for the projection of light upon the dial, said second named aperture being formed by slitting the face plate and pressing the mate-



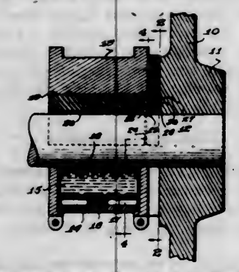
rial at one side of the slit toward the rear of the instrument so as to render the aperture substantially invisible when viewed from ordinary reading position.

1,675,640. COOKING POT. CAMILLE CHARLIER and ABRAHAM ERRERA, Brussels, Belgium. Filed Nov. 18, 1926, Serial No. 149,156, and in Belgium Dec. 8, 1925. 3 Claims. (Cl. 53—1.)



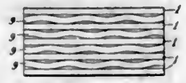
1. In a cooking pot, the combination with the pot and an inwardly arched cover of oval shape intended to be inserted into the pot and tightened upwardly against the upper rim or flange of the pot, of a flange formed around the opening of the pot and slightly bent downwardly and inwardly, and an annular groove formed in the rim of the cover, the outer wall of the groove being inclined downwardly, the flange fitting in the groove with the edge thereof engaging the downwardly inclined wall.

1,675,641. JOURNAL BOX. MATTHIAS CHRISTMAN, Springfield, Mo. Filed Mar. 1, 1927. Serial No. 171,819. 11 Claims. (Cl. 308—81.)



1. A journal box brass provided in its interior surface with a plurality of lubricant grooves extending throughout the greater portion of the length of the brass from a point adjacent one end to a point spaced from the opposite end, said brass being further provided in its interior surface between the last named end and the adjacent portions of said lubricant grooves with an independent supplemental lubricant groove and with passages extending from the supplemental groove to the adjacent end of the brass.

1,675,642. MANUFACTURE OF DECORATIVE PLASTIC. JOHN H. CLEWELL, Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 1, 1925. Serial No. 53,787. 5 Claims. (Cl. 18—48.8.)



1. The process of making cellulose ester plastic pigmented with flake-like particles which comprises mixing said particles into a casting dope, casting the dope into film, making a stack comprising sheets of said film interlaid with crinkled sheets of plastic, and welding the stack into a block.

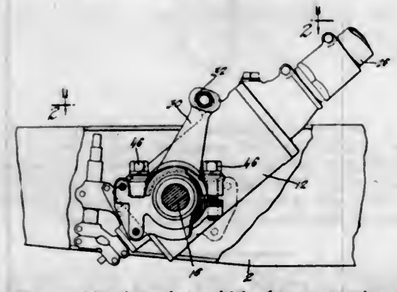
1,675,643. STORAGE-BATTERY GRID. REGINALD SCOTT DEAN, La Grange, Ill., and WILLIAM EWART HUDSON, Los Angeles, Calif., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 5, 1924, Serial No. 690,720. Renewed Sept. 27, 1927. 4 Claims. (Cl. 148—1.)

1. A storage battery grid formed of a lead alloy in which lead is the major constituent, characterized by the presence of finely divided particles of a solute material substantially uniformly dispersed throughout the lead.

1,675,644. AGE-HARDENING PROCESS. REGINALD SCOTT DEAN, La Grange, Ill., and WILLIAM EWART HUDSON, Los Angeles, Calif., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 16, 1924, Serial No. 737,998. Renewed Oct. 20, 1927. 14 Claims. (Cl. 148—11.)

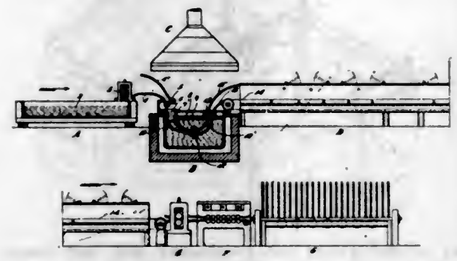
1. The method of treating an age-hardenable lead alloy, which consists in raising said alloy a plurality of times to the temperature at which the maximum amount of solute material present will enter solid solution, performing work thereon between successive heating steps, quenching said alloy and then aging said alloy.

1,675,645. STEERING GEAR. HARRY M. DENYES, Saginaw, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Sept. 16, 1925. Serial No. 56,714. 8 Claims. (Cl. 74—79.)



1. The combination of a vehicle frame, steering gear, a housing for said steering gear including a laterally projecting arm, and a bracket on the frame having a universally adjustable connection with said arm for supporting the steering gear on the frame.

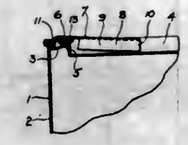
1,675,646. METHOD OF ZINC COATING FERROUS METAL. JOSEPH G. FITZ GERALD, Canton, Ohio, assignor, by direct and mesne assignments, to Central Alloy Steel Corporation, Canton, Ohio, a Corporation of New York. Filed Mar. 30, 1925. Serial No. 19,381. 11 Claims. (Cl. 91—70.3.)



1. The method of zinc coating ferrous metal, which consists in heating the metal to be coated to from 850° to 950° F. and then coating it in a molten spelter bath to produce a tight coat.

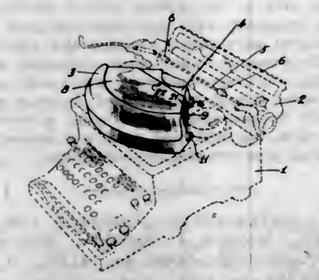
8. The method of zinc coating a ferrous metal, which consists in coating the metal in a molten spelter bath, and then controlling the temperature of the cooling of the hot coated metal to produce the desired character and appearance of the coating.

1,675,647. CAN-OPENING DEVICE. CONRAD GENJACK, Vancouver, British Columbia, Canada. Filed Apr. 25, 1927. Serial No. 186,301. 1 Claim. (Cl. 220—43.)



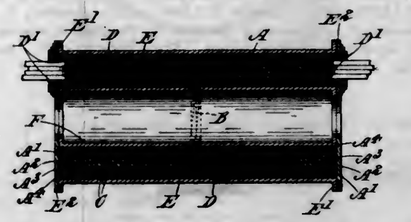
A can opener for cans provided with press on covers having a peripheral rim, comprising a lever adapted to be hingedly applied to the rim of the cover and having a downwardly turned tongue adapted to bear upon the can as the lever is raised to lift the cover from the can, said tongue having an inclined lower extremity.

1,675,648. COVER TABLE FOR TYPEWRITERS. CLARENCE A. GOURLAY, Jamaica, N. Y. Filed Feb. 8, 1927. Serial No. 166,660. 5 Claims. (Cl. 197—186.)



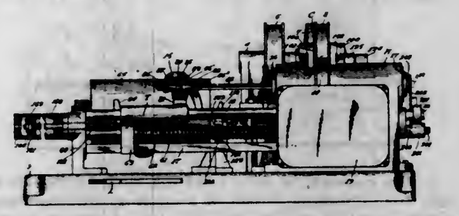
1. A cover table for Noiseless typewriters embodying a flat plate of substantially segmental contour to overlie and conceal the opening between the front shield and the comb guide of a Noiseless typewriter, with the forward margin of the plate extending beneath the rear margin of the front shield and with the rear margin of the plate overlying the comb guide, flanges formed at the lateral edges of said plate and extending downwardly to the frame of the machine, attaching lugs formed on the side flanges and adapted to be secured to the machine by screws which secure conventional parts of the machine to the frame of such machine, sound deadening lining covering the inner face of the plate and its flanges, and gaskets interposed between the plate and the front shield and the plate and the comb guide to preclude rattling between the plate and these parts.

1,675,649. LIGHTNING OR SURGE ARRESTER. LEWIS COLIN GRANT, Newcastle-upon-Tyne, England, assignor to Electrical Improvements Limited, Newcastle-upon Tyne, England, a Company of Great Britain. Filed Oct. 5, 1925. Serial No. 60,592. 5 Claims. (Cl. 175—30.)



1. A lightning or surge arrester in the form of a transformer comprising a secondary which consists of two concentric tubes electrically connected together, and a primary winding disposed in the annular space between the two tubes, the secondary acting to dissipate in the form of heat energy which it derives from a surge in the primary.

1,675,650. WINDING MACHINE. MARTIN B. GROUT, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 26, 1926. Serial No. 104,606. 19 Claims. (Cl. 242—7.)

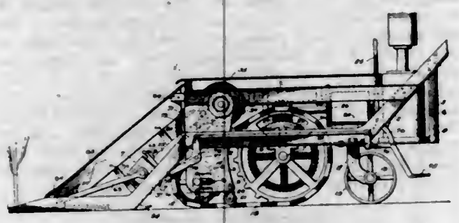


1. A winding machine including a rotating spindle, a coil receiving member supported by said spindle, a strand of material adapted to be wound upon said coil receiving member, and automatic means including a rotatable cam adapted to engage a feeding bracket associated with a feeding bar adapted to enter said spindle to engage the said coil receiving member for moving said coil receiving member relative to said strand of material to space the strand of material upon said coil receiving member.

1,675,651. MECHANICAL CANE CUTTER. THOMAS A. GUILD, Honolulu, Territory of Hawaii. Filed May 29, 1926. Serial No. 112,622. 18 Claims. (Cl. 56—17.)

1. A cane cutting machine comprising a frame mounted on wheels, a motor carried by the frame and geared to

drive said wheels, an inclined guideway pivotally connected to said frame and carrying a reciprocable knife,



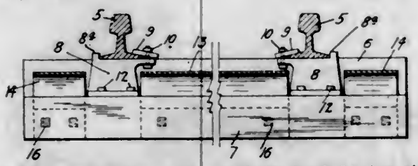
a crank shaft secured to said knife, means connecting the motor to said shaft whereby to reciprocate said knife once to every three revolutions of said shaft.

1,675,652. METHOD OF MAKING CONTAINERS FOR CAKES, ETC. GEORGE WILBUR GWINN, Hewlett, N. Y., assignor to American Machine & Foundry Company, a Corporation of New Jersey. Filed May 2, 1927. Serial No. 188,087. 5 Claims. (Cl. 93—60.)



1. The method of making a package, which consists in folding a sheet of paper to form a container bottom having an upstanding wall provided with a series of outstanding loops, then forming said loops into box-pleats on said wall, then folding the upper part of said wall outwardly to form a flange, then filling the container so formed, then attaching a cover to said flange, and then folding said cover and flange down together on said wall.

1,675,653. CATTLE GUARD. ISAAC J. KILBURN, Denver, and JOHN T. DOYLE, Bloomfield, Colo. Filed Oct. 7, 1927. Serial No. 224,618. 7 Claims. (Cl. 256—14.)

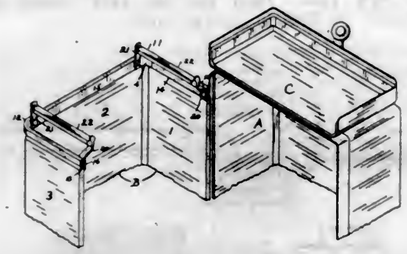


1. The combination with a railway track having alternate ties of reduced height, of a cattle guard comprising a plate slanting between alternate ties of regular height and across the tie of reduced height.

6. A cattle guard comprising in combination with a railway track of standard construction, a flanged plate slanting from a face of a tie of the track across two following ties, the plate having its flanges fastened upon corresponding faces of the outer ties and the intermediate tie being reduced in height and providing a support for the plate, and chairs on the intermediate tie, supporting the rails of the track above the same.

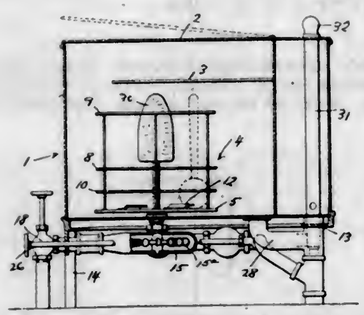
1,675,654. REENFORCING FRAME FOR WARDROBE-TRUNK SECTIONS. MERTON E. MAHAR, West Allis, Wis., assignor to Milwaukee Stamping Company, West Allis, Wis. Filed Mar. 3, 1923. Serial No. 622,490. 2 Claims. (Cl. 190—37.)

1. The combination with an open ended wardrobe trunk section, of protecting corner pieces applied thereto, and a channel shaped metallic sheathing covering the marginal portions of the walls and of said corner pieces at the open



end of said section and co-operating with said corner pieces to completely conceal and protect said margins of the trunk section walls.

1,675,655. WASHER AND STERILIZER. HUGH KARNEY MCMANUS, Vicksburg, Miss. Filed June 17, 1926. Serial No. 116,651. 2 Claims. (Cl. 141—9.)

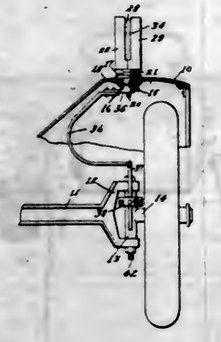


1. In a structure of the class described, a tank adapted to be filled with water, a utensil supporting and carrying rack located in said tank, a shaft carried by said rack and journaled for rotation in a bearing in the bottom of the tank, a hydraulic motor disposed beneath the shaft and including a housing and a rotor adapted for rotation in said housing, said shaft being connected with said rotor, a fluid intake connected with one side of the motor housing, fluid supply means connected with said intake, a discharge neck on the opposite side of the housing, a T-coupling connected with said discharge neck, branch pipes connected with said T-coupling and extending in opposite directions, a valved elbow connected with one branch pipe and also connected with said tank for supplying water to said tank, a valved discharge pipe connected with the remaining branch pipe, a drain elbow connected with said tank and with said discharge pipe, and a control plug for said discharge pipe.

1,675,656. WHEEL-ANGLE INDICATOR FOR AUTOMOBILES. WILLIAM J. MEREDITH, Newton, Iowa. Filed Oct. 12, 1926. Serial No. 141,143. 4 Claims. (Cl. 116—31.)

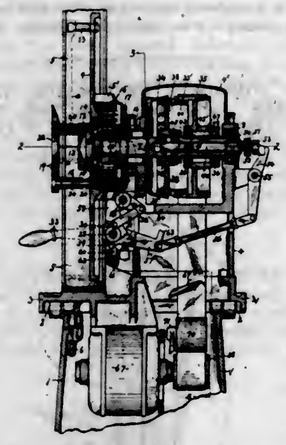
3. In combination, an automobile axle and a fender, said axle being provided with a spindle and a spindle sleeve, said sleeve being pivotally mounted therein, a lamp casing secured to said fender and pivotally mounted

in alinement with said spindle sleeve, said lamp being provided with an illuminated character to indicate direction, a U-shaped resilient member having its closed por-



tion extending inwardly, one end of said U-shaped member being connected to the lamp pivot and the other end detachably connected to said spindle sleeve.

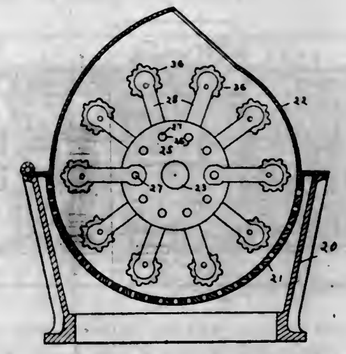
1,675,657. CENTRIFUGAL BABBITTING MACHINE. LLOYD W. MOULTON and OSCAR C. KAYLE, Syracuse, N. Y. Filed May 3, 1927. Serial No. 188,478. 7 Claims. (Cl. 22—65.)



1. In a metal casting machine, a work-holder having co-axial clamping members rotatable about a horizontal axis and provided with co-axial openings for permitting the entrance of molten metal into the work and for allowing air to escape from the work respectively, said members being relatively movable axially to grip and release the work, and a fan rotating with the work-holder and having its suction side connected to the air opening.

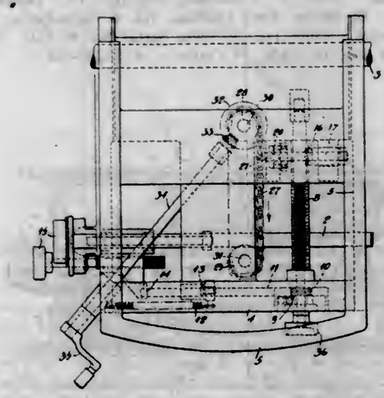
1,675,658. GRINDING MILL. JOHN MURSCH, Utica, N. Y., assignor, by direct and mesne assignments, to Buffalo Hammer Mill Corporation, Buffalo, N. Y., a Corporation of New York. Filed June 20, 1927. Serial No. 200,125. 17 Claims. (Cl. 83—11.)

1. A grinding unit for mills comprising a supporting member revolubly mounted, a pair of links pivotally connected to the supporting member, an intermediate member eccentrically and movably mounted on said links near their outer ends, a hammer having a plurality of grinding faces and revolubly mounted on said intermediate member, and means mounted on said intermediate member and engaging said hammer and adapted to positively



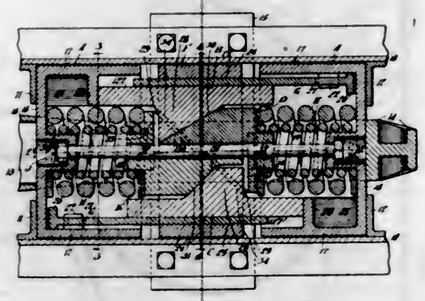
hold said hammer relative to said intermediate member with any one of its grinding faces in radial alignment with the heavy side of said eccentrically mounted intermediate member whereby said desired face is yieldingly held in operative position.

1,675,659. MEAT-SLICING MACHINE. JOSEF AUGUST NORDIN, Stockholm, Sweden, assignor to Aktiebolaget Stille-Werner, Stockholm, Sweden. Filed Dec. 2, 1925, Serial No. 72,781, and in Sweden Oct. 24, 1925. 3 Claims. (Cl. 146—102.)



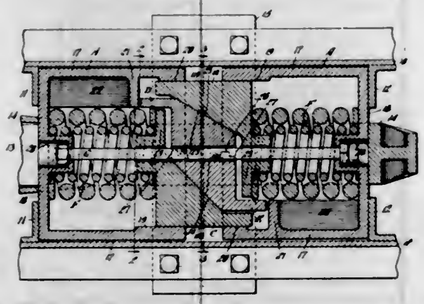
1. In a slicing machine of the reciprocating slide and cross feed table type, a separate returning and shifting mechanism for the said table comprising a motion transmitting member supported by the slide, a pivoted member connected to said motion transmitting member and pivotally supported by the table, a shiftable nut segment supported by the table, projecting parts on the said nut segment cooperating with the pivoted member and a spring tending to move the nut segment in engagement with the feed screw, which serves to feed the table by means of the said segment, the motion transmitting member being adapted, when acted upon to turn the pivoted member so that the same acts upon the projecting parts of the nut segment and disengage the latter from the feed screw, the continued motion of the motion transmitting member then causing a rapid movement of the table independent of the feed screw and the nut segment.

1,675,660. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Dec. 26, 1925, Serial No. 77,788. Renewed Feb. 16, 1928. 9 Claims. (Cl. 213—32.)



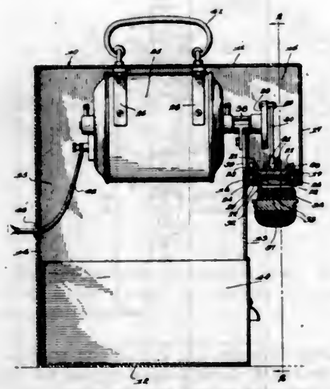
1. In a friction shock absorbing mechanism, the combination with front and rear follower elements relatively movable toward and away from each other; of a floating friction member interposed between said follower elements; a friction wedge system co-operating with said member, including a plurality of friction elements and wedge elements co-operating with the friction elements, said wedge elements having co-operating friction surfaces disposed longitudinally of the mechanism; and spring resistance means interposed between said follower elements and friction system.

1,675,661. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Jan. 9, 1926, Serial No. 80,151. Renewed Feb. 16, 1928. 6 Claims. (Cl. 213—32.)



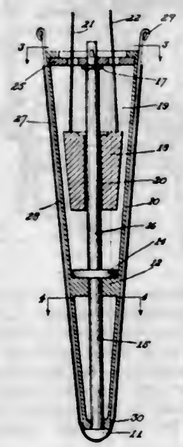
1. In a friction shock absorbing mechanism, the combination with front and rear relatively movable casings having longitudinally disposed interior friction surfaces; of a plurality of friction elements arranged in sets, said elements of each set having inter-engaging wedge faces, certain elements of said sets having friction surfaces cooperating with said interior friction surfaces and the remaining elements having co-acting friction surfaces disposed at an inclination to the longitudinal axis of the mechanism; means on said casings engaging said last named elements for effective relative movement of said sets of elements during movement of said casings toward each other; and yielding means for resisting relative movment of said sets of elements.

1,675,662. POLISHING DEVICE. LOYD F. PHILLIPS, St. Louis, Mo. Filed June 15, 1927. Serial No. 199,028. 9 Claims. (Cl. 132—74.)



1. A polishing device comprising an electrically operated reciprocating member, a bracket carried by said reciprocating member and having a portion thereof arranged in a horizontal manner, a buffer, a U-shaped bracket carried by said buffer, the opposite parallel side portions of said U-shaped bracket being adapted to engage the portion of said first mentioned bracket extending in a horizontal manner so that said buffer may be detachably connected to said reciprocating member.

1,675,663. COMPOSITE PENETRATOR AND SHELL FOR PILES. LEON PIERCE, New York, N. Y. Filed Oct. 25, 1927. Serial No. 228,566. 7 Claims. (Cl. 61—78.)

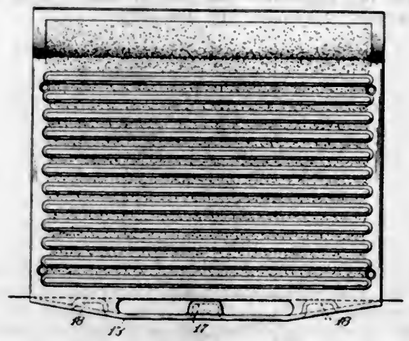


1. In a device of the class described, a substantially conical penetrator, a drop hammer slidably mounted therein, a shell of the same conformity of the penetrator loosely fitted over the latter, means for frictionally securing the shell to the penetrator, said means being capable of withdrawal to assist in relieving the penetrator, and means for jarring said penetrator on the upward or downward stroke of the hammer.

1,675,664. WELDING MEDIUM FOR ALUMINUM. WILHELM REUSS, Mannheim, Germany. Filed Dec. 3, 1927, Serial No. 237,582, and in Germany July 24, 1925. 2 Claims. (Cl. 148—26.)

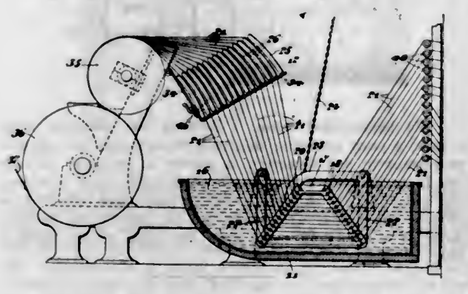
1. A soldering or welding medium consisting of a mixture of equal parts of borax, boracic acid and caustic potash.

1,675,665. STEP PLATE. OLIVER C. RITZ WOLLER, Chicago, Ill. Filed May 27, 1925. Serial No. 33,231. 1 Claim. (Cl. 280—169.)



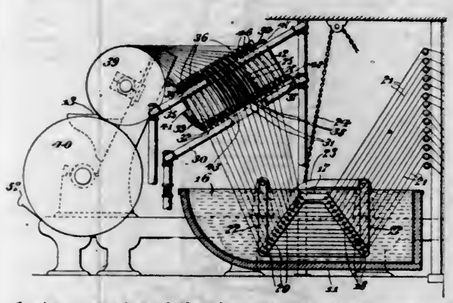
A step plate including a tread portion adapted to be secured to a step and having a marginal depending flange overlying the edge of the step, said depending integral flange having the ends thereof disposed in inclined planes to form gradual risers for preventing objects catching thereon and the medial portion of said flange being spaced from and substantially parallel to the adjacent edges of the tread and step, to afford a scraper and a passage-way for dirt and the like, and means for reinforcing said risers and said scraper including abutments pressed inwardly from the body of said flanges and disposed in contact with the adjacent edge of the step intermediately of the respective risers and scraper portions.

1,675,666. METHOD OF MAKING FIBER BOARD. WILLIAM M. SHOEMAKER, Jr., Kennett Square, Pa., assignor to National Vulcanized Fibre Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 27, 1926. Serial No. 157,219. 6 Claims. (Cl. 154—34.)



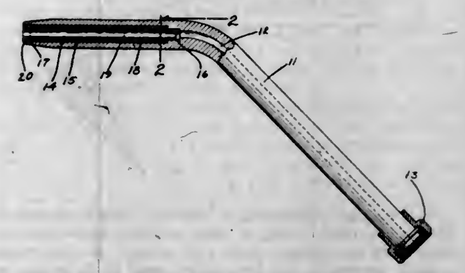
1. The method of forming a fiber sheet from a plurality of sheets of cellulosic material, which consists in impregnating a plurality of said sheets of cellulosic material with a suitable chemical, thereafter subjecting each sheet of cellulosic material to the action of heat at the requisite temperature, and thereafter superposing said sheets of cellulosic material and effecting union thereof.

1,675,667. APPARATUS FOR MAKING FIBER BOARD. WILLIAM M. SHOEMAKER, Jr., Kennett Square, Pa., assignor to National Vulcanized Fibre Company, Wilmington, Del., a Corporation of Delaware. Original application filed Dec. 27, 1926, Serial No. 157,219. Divided and this application filed Aug. 13, 1927. Serial No. 212,657. 12 Claims. (Cl. 154—34.)



1. An apparatus of the character described comprising, in combination, a bath of impregnating solution, means for feeding a plurality of sheets of cellulosic material through said bath, means for superposing and effecting union of said sheets, and means between said bath and the said second named means for subjecting said sheets to the action of heat to effect uniform heating of said sheets.

1,675,668. TORCH TIP. ELMER H. SMITH, Minneapolis, Minn. Filed Feb. 11, 1927. Serial No. 167,527. 2 Claims. (Cl. 158—27.4.)

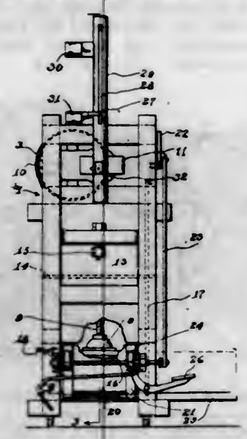


1. A torch tip comprising an elongated body having a fuel duct therein, said body being constructed of a single piece of heat-conducting metal whereby heat, generated at the discharge end of the body, will be conducted rearwardly away from said end without resistance, said body having an axial bore therein, a socket at the bottom of said bore communicating with said fuel duct, an elongated tube mounted in said bore and having one end movably received in said socket, the exterior diameter of said tube being relatively smaller than the diameter of said bore to provide an annular chamber around said tube, means for securing the opposite end of the tube to the tip body adjacent the discharge end thereof, and an insulating material in said annular chamber adapted to insulate the fuel passage through said tube against excessive heat to prevent pre-ignition of the fuel mixture therein.

1,675,669. PRESS. JOHN L. SNYDER, Grandview, Wash. Filed Oct. 10, 1927. Serial No. 225,248. 2 Claims. (Cl. 100—8.)

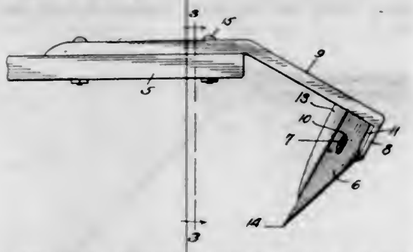
1. In a press of the class described in combination, a pressure chamber, means for compressing material in said chamber, means for releasing the pressure of the said material, and means for moving the pressed material out of the pressure chamber on a platform, the said

means consisting of a pivoted foot pedal, a rod attached to said pedal, the opposite end of said rod being attached to a lever, a curved arm adapted to shove the compressed



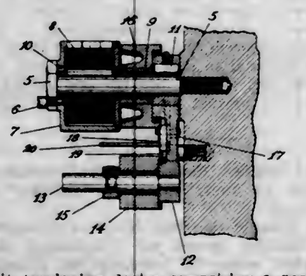
material on said platform when the said pedal is moved down, and a spring for normally keeping said foot pedal in a raised position.

1,675,670. LAWN EDGER. JOHN G. SPAHN, Lyons, Iowa. Filed Nov. 8, 1926. Serial No. 147,014. 1 Claim. (Cl. 97—227.)



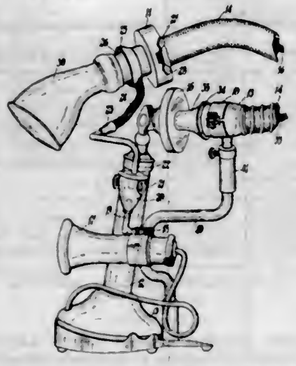
A lawn edger including a handle, a shank secured to the handle and having a right angled end portion arranged at an oblique angle with respect to the shank, a blade secured to the end portion, said blade having an obliquely disposed cutting edge and having a rearwardly extended flange, the lower end of the flange merging into the blade and tapered to provide a cutting edge.

1,675,671. BELT-TENSIONING DEVICE. JOHN A. STEIN, New York, N. Y., assignor to American Machine & Foundry Company, a Corporation of New Jersey. Filed Mar. 26, 1926. Serial No. 97,512. 5 Claims. (Cl. 64—5.)



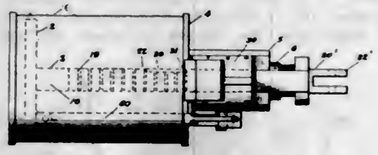
1. A belt tensioning device comprising a post, an idle pulley rotatable about said post and adapted to underrun a belt to be tensioned, an arm swingable about said post, an idle pulley carried by said arm and adapted to overrun said belt, and spring-actuated means surrounding said post for causing said arm to swing, said means including a sleeve rotatable on said post and fast to said arm, a spring one end of which is secured to said sleeve, and an adjustable stationary member to which the other end of said spring is secured.

1,675,672. FLEXIBLE SUPPORTING DEVICE. DOUGLAS STUART SPENS STEUART, London, England. Original application filed Nov. 17, 1927, Serial No. 233,973, and in Great Britain June 14, 1926. Divided and this application filed Dec. 27, 1927. Serial No. 242,941. 4 Claims. (Cl. 181—22.)



1. A speaking tube or the like, having a flexible, non-resilient internal supporting device which comprises a nontubular stranded cable of aluminium wire and a flexible tube closely surrounding said cable, means for supporting the cable and tube at one end, and means at the other end of said cable and tube for securing thereto an object to be supported.

1,675,673. BRAKE MECHANISM. ROBERT D. STROUP, Marfrance, W. Va., assignor of one-third to H. S. Nelson, Leslie, W. Va., and one-third to John B. Laing, Lewisburg, W. Va. Filed Sept. 18, 1923, Serial No. 663,360. Renewed May 3, 1928. 10 Claims. (Cl. 303—89.)

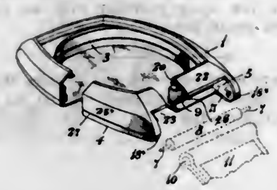


1. In brake mechanism, a holding bar provided with a rack, a pawl engaging said rack to lock said bar against movement in one direction, a groove in said bar extending for a portion of the length of said bar only, a releasing pawl carried by said locking pawl and adapted to ride in the groove aforesaid, and to control the engagement of the locking pawl with the rack of the holding bar.

1,675,674. PROCESS FOR THE PRODUCTION OF CARBON ELECTRODES. IMRE SZARVASY, Budapest, Hungary. Filed Mar. 16, 1927, Serial No. 175,937, and in Germany Nov. 15, 1926. 2 Claims. (Cl. 266—1.6.)

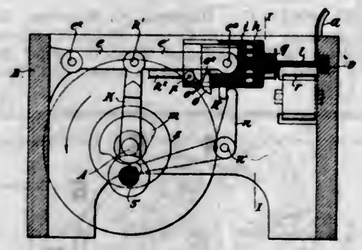
1. Process for the production of carbon electrodes from gases containing methane, as for example natural gas, comprising subjecting the gas to heat cleavage in such a manner, that a mixture of finely divided carbon and tar like products and in addition solid coherent hard carbon are formed, mixing the molecular mixture of the finely divided carbon and tar like products with the solid coherent hard carbon, coking this mixture and grinding, mixing with binding agents, moulding and burning it to a finish in a manner per se known.

1,675,675. WATCHCASE. ARTHUR W. WADSWORTH, Fort Thomas, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky., a Corporation of Kentucky. Filed Oct. 22, 1926. Serial No. 143,491. 3 Claims. (Cl. 58—88.)



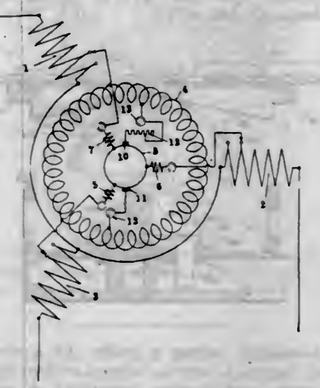
2. In a watch case construction, the combination of a movement ring having spaced apart holding lugs, the end of said movement ring being concaved or hollowed out between said lugs, a back and bezel adapted to be removably mounted upon said movement ring and holding lugs and in engagement with each other, and a strap bar attached to said lugs, whereby when a strap having a loop is mounted on said bar between said lugs and within said hollowed out space said strap covers and conceals the inner exposed sides of said holding lugs and whereby said center and holding lugs are completely concealed by said back, bezel and strap.

1,675,676. PRESS FOR THE COLD EXTRUDING OF TUBES FROM METAL DISKS. EWALD WALTHER, Durlach, Baden, Germany. Filed Jan. 15, 1927, Serial No. 161,454, and in Germany Mar. 12, 1925. 2 Claims. (Cl. 207—9.)



1. A press for the cold extruding of tubes from a metal disk comprising in combination a stationary matrix having a cavity shaped according to the head and neck of the tubes to be formed, and adapted to extrude rearwardly the surplus tube forming material; a plunger shaped according to the tube body and serving as a carrier for the extruded tube material; a mandrel extending throughout said plunger and having a pointed free end adapted to form an opening through the neck and head of the tube; means to shift the plunger and mandrel, said means adapted at first to introduce the plunger and mandrel into the matrix, then to withdraw the same with the tube from said matrix, whereupon said means will set the plunger at rest and withdraw further the mandrel whereby to permit air to enter into the tube, said means finally withdrawing against the plunger and mandrel; a stripping member riding over the mandrel; and means for conveying away the finished tubes.

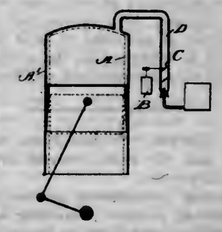
1,675,677. ALTERNATING-CURRENT MOTOR. HANS WEICHSEL, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a Corporation of Delaware. Filed Mar. 24, 1926. Serial No. 96,932. 5 Claims. (Cl. 172—120.)



1. In a synchronous motor, the combination of a stator provided with an inducing winding, a rotor having a direct current exciting winding and a converter winding provided with a commutator and slip rings, said converter winding being in poor inductive relation with the stator winding, means for impressing an alternating current on the converter winding, and means for impressing on the exciting winding a direct current E. M. F. derived from the converter winding.

3. In a synchronous motor, the combination of a stator provided with an inducing winding, a rotor having a direct current exciting winding located in peripheral slots and a converter winding separated from the exciting winding by means forming a path permitting a portion of the stator flux to link with the exciting winding without linking with the converter winding, means for impressing alternating current on the converter winding, and means for deriving a direct current E. M. F. from the converter winding and impressing it on the exciting winding.

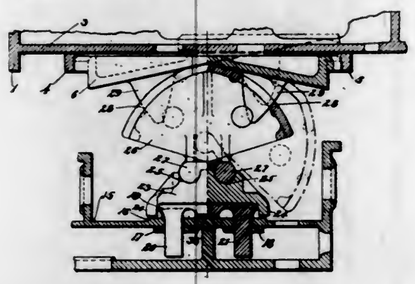
1,675,678. EXPLOSION MOTOR TO BE UTILIZED UNDER VARIOUS ATMOSPHERIC CONDITIONS. CHARLES WEISMANN, Paris, France, assignor to Hugo Junkers, Dessau, Germany. Filed Nov. 12, 1917, Serial No. 201,671, and in France Nov. 23, 1915. 7 Claims. (Cl. 123—75.)



6. Internal combustion engine comprising a cylinder, a piston reciprocable in said cylinder, means arranged to supply said cylinder with the quantities of fuel and of

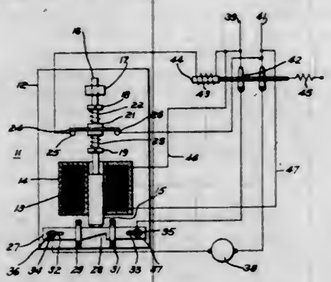
air of the reduced pressure prevailing at great altitudes, which are required for the development of a predetermined number of horse-power at these altitudes, and automatically active means for varying one of said quantities at lower altitudes to the extent of keeping said number of horse-power substantially constant at all altitudes.

1,675,679. LOCOMOTIVE TRAILER TRUCK. CHARLES T. WESTLAKE, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed Apr. 4, 1925. Serial No. 20,832. 7 Claims. (Cl. 105—174.)



3. A locomotive having a cradle and a trailer truck connected thereto, a bearing between said cradle and said trailer truck, said bearing comprising a curved face rocker pivotally mounted, a bearing plate mounted on said cradle adapted for contact with said bearing, and lugs on said bearing plate engaging said rocker.

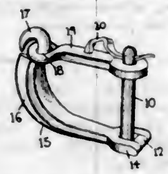
1,675,680. MAGNETIC THERMAL RELAY. HAROLD E. WHITE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 27, 1925. Serial No. 5,064. 9 Claims. (Cl. 200—88.)



1. A thermal relay comprising an energizing winding, a magnetizable core member therefor, contact members controlled by the movement of said core member, a normally magnetic member, and means for permitting of varying the amount of material of said normally magnetic member that is subjected to the action of the magnetic field of said core member and winding.

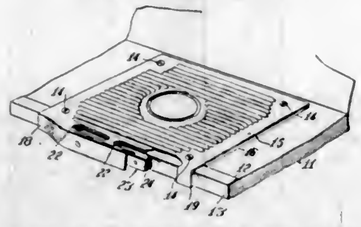
1,675,681. CLEVIS. ERNEST PAUL WIESE, Lincoln, Nebr. Filed Apr. 3, 1926. Serial No. 99,579. 2 Claims. (Cl. 278—96.)

1. A clevis having a horizontal portion and a vertical portion and a curved portion connecting said horizontal and vertical portions, said three portions being of integral construction, a rib projecting outwardly from said curved portion and from said vertical portion, said horizontal portion being provided with an opening and having a transverse pin therein, a clevis pin seated in the opening in said horizontal portion and having an outwardly curled tongue embracing said transverse pin, and a flat link having an eye adjacent one extremity thereof,



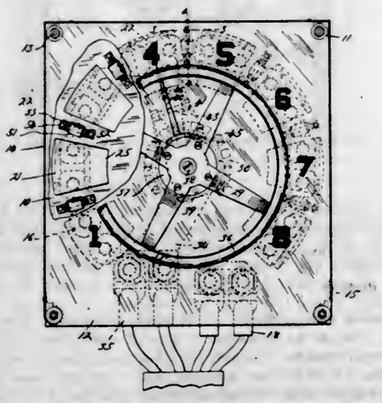
said vertical portion terminating in an outwardly curled tongue hingedly engaging said link through the eye thereof, said link being provided with an aperture for receiving said clevis pin.

1,675,682. STEP PLATE. OLIVER C. RITZ WOLLER, Chicago, Ill. Filed Aug. 17, 1925. Serial No. 50,724. 1 Claim. (Cl. 280—169.)



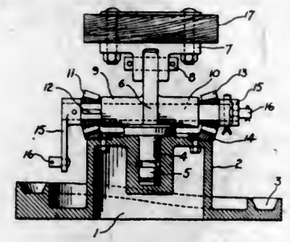
In a step plate adapted to be secured to the running board of a vehicle, a tread having an open portion adjacent its outer edge, a riser having two inclined ends engaging the running board, a scraper extending between said ends in spaced relationship to the adjacent edge of the running board, and a reinforcing means for said risers and scraper portions comprising an elongated member having its medial portion fixedly secured to the inner face of said scraper portion and having ends bent inwardly adjacent to the inclined end risers and into abutting engagement with the adjacent edge of the running board.

1,675,683. SWITCH. HERBERT A. WOOFTER, Kenton, Ohio, assignor to Swift Electric Welder Company, Detroit, Mich., a Corporation of Michigan. Filed May 24, 1926. Serial No. 111,402. 12 Claims. (Cl. 200—11.)



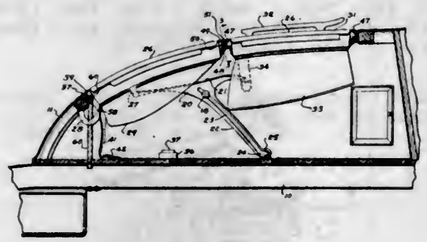
1. In a regulator switch, a contact arm and a pair of contacts spaced apart a distance less than the width of said contact arm and means including a plurality of rollers engageable with said arm for moving the same substantially perpendicularly to its plane of contact during its transient movement between contacts.

1,675,684. AMUSEMENT DEVICE. SEWELL POWIS AMBROSE, Vancouver, British Columbia, Canada. Filed Oct. 4, 1927. Serial No. 224,006. 3 Claims. (Cl. 272—33.)



2. An amusement device comprising a base, having a concentric gear ring, a standard upon the base pivotally supporting a seesaw, a shaft carried by the standard having a pinion in mesh with said gear ring, and means operable by one of the users for imparting rotation to the shaft and to cause the pinion to travel about the ring whereby rotation is imparted to the seesaw, and means as the seesaw is rotated about the base for imparting reciprocation to the seesaw.

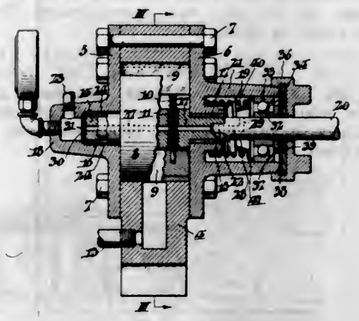
1,675,685. RUMBLE SEAT FOR AUTOMOBILE BODIES. JULIUS ANDRADE, East Cleveland, Ohio, assignor to Chandler Motor Car Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 12, 1925. Serial No. 36,608. 5 Claims. (Cl. 296—66.)



1. In a vehicle, a rumble seat comprising a pair of lids of relatively different widths folding into the body of the vehicle, and arranged in closed position so that an edge of one of said lids is contiguous with an edge of the other lid, a drip bead on one of said contiguous edges, a gutter basin on the other of said edges to catch liquid dropping from said drip bead, and a gutter secured to the body of the vehicle into which liquid from said basin may discharge.

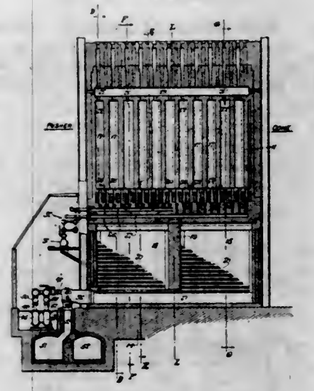
1,675,686. COMPRESSOR. EUGENE L. BARNES, Buffalo, N. Y., assignor to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia. Filed July 20, 1926. Serial No. 123,642. 8 Claims. (Cl. 230—153.)

8. The combination with a rotary compressor casing and its end heads, and aligned bearings and oil chambers in said heads of a rotor in the casing with spuds in said bearings, a shaft also mounted in one of said heads in driving connection with the corresponding rotor spud,



means for supplying oil to one of said oil chambers, and an oil passage from said chamber through the rotating parts to the other oil chamber.

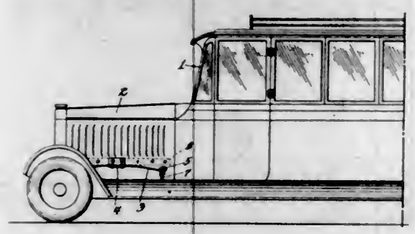
1,675,687. COKING RETORT OVEN. JOSEPH BECKER, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 26, 1920, Serial No. 426,415. Renewed June 18, 1926. 5 Claims. (Cl. 202—9.)



1. In a coke oven battery, in combination: a plurality of horizontally elongated coking chambers arranged side by side; heating walls contiguous to such coking chambers and respectively constituted of vertical combustion flues; horizontally elongated regenerators located at a lower level than the coking chambers and the heating walls and parallel therewith, said regenerators being grouped into pairs crosswise of the battery and communicably connected with combustion flues of said heating walls; a producer gas main located on one side of the battery; reversing valve connections between said main and alternate pairs of said regenerators; reversing valve connections for connecting the pairs of regenerators that are intermediate such alternate pairs of regenerators with the outer air; a stack; a pair of waste gas tunnels located on the same side of the battery as said producer gas main and adapted to be communicably connected with

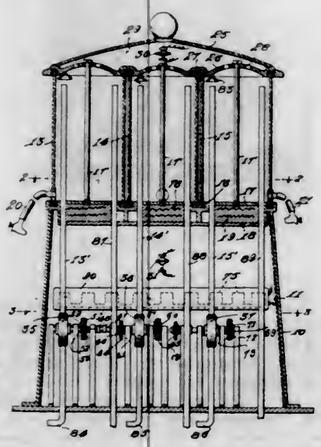
said stack; valve connections between one of said tunnels and the pusher side regenerators on one side of the oven; valve connections between the other of said tunnels and the coke side regenerators on the opposite side of the oven; and controlling valve mechanism for communicably connecting one of said tunnels with the stack while shutting off the other from communication therewith; substantially as specified.

1,675,688. FASTENING MEANS. HERSCHEL A. BENEDICT, East Orange, and EDVARD M. MOLLER, South Orange, N. J. Filed Jan. 30, 1926. Serial No. 84,953. 4 Claims. (Cl. 292—91.)



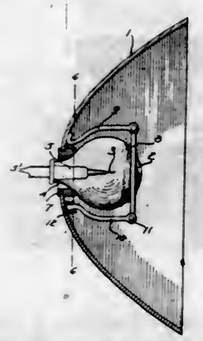
1. In combination with a motor vehicle having a hood, a leaf spring secured to said hood at one side thereof and releasably attached to a fixed part of the vehicle at the same side of the vehicle as said leaf spring is attached for securing the hood in closed position.

1,675,689. ELECTRICALLY-HEATED DISPENSING PUMP. CHARLES P. BIGGS, Mound City, Mo., assignor to William Henry Crawford, Mound City, Mo. Filed Sept. 15, 1926. Serial No. 135,624. 2 Claims. (Cl. 219—19.)



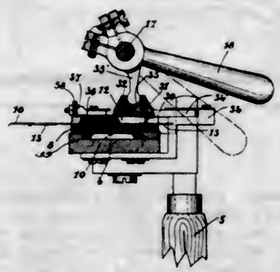
1. In an apparatus of the class described, a housing, containers therein for dispensing fluid, electric resistance units within the upper portion of the housing and below the containers, means defining a chamber above the containers and communicating with the interior thereof, and thermostatic means within the chamber for controlling, when influenced by outside temperature and temperature within the containers, the resistance units for all of the containers.

1,675,690. PROJECTOR LAMP FOR MOTOR VEHICLES. CLYDE C. BOHNER, East Orange, N. J., assignor to Tung-Sol Lamp Works, Newark, N. J., a Corporation of New Jersey. Filed Jan. 5, 1927. Serial No. 159,041. 7 Claims. (Cl. 240—41.)



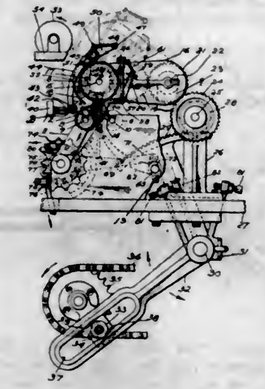
1. A projector or head lamp for motor vehicles having a projecting reflector, an electric lamp having a conical bulb neck part and having its filament positioned and definitely located with reference to points about the bulb neck in a plane at right angles to the bulb axis, a centrally disposed fixed rear support adapted to directly engage the conical part of the neck of the electric bulb and cooperating supporting means holding said lamp tightly against the rear support with the latter engaging the neck at points disposed in the aforesaid plane.

1,675,691. KNITTING MACHINE FOR THE MANUFACTURE OF CORSETS AND BELTS. EDMOND ETIENNE BOUDIOS, Paris, France, assignor to Les Fils de Emile Boudios, Romilly s/Seine, Aube, France. Filed May 23, 1923, Serial No. 640,997, and in France June 28, 1922. 4 Claims. (Cl. 66—96.)



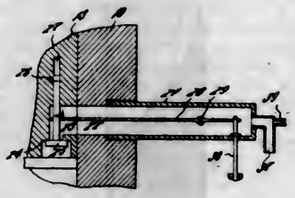
1. In a straight knitting frame, the combination with a needle-bar and the sinkers, of a carriage parallel to the needle bar, means for imparting to said carriage a reciprocating movement in a direction substantially at right angles to the needle bar and a rocking motion about its own longitudinal axis, two point-supports movably supported by the carriage and symmetrically disposed with respect to the middle transverse plane of said needle-bar, means for displacing said point-supports along the carriage in reverse directions, main fashioning points secured to said point-supports in front of the needles and spaced apart by two needle-divisions, auxiliary fashioning points slidably mounted on said point-supports between the said main fashioning-points so as to alternate with the latter, and means for simultaneously moving the auxiliary fashioning-points towards and away from the needle-bar with respect to the said point-supports.

1,675,692. MACHINE FOR LABELING CIRCULAR ARTICLES. WILHELM B. BRONANDER, Montclair, N. J., assignor to American Machine & Foundry Company, a Corporation of New Jersey. Filed July 2, 1927. Serial No. 203,002. 11 Claims. (Cl. 216—9.)



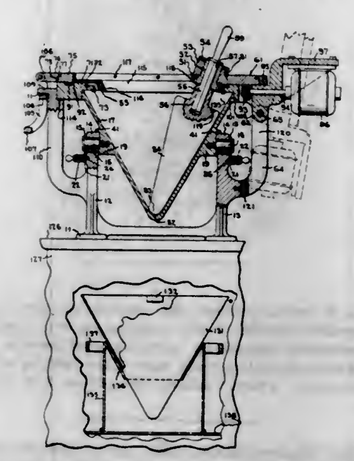
1. The combination with two rollers supporting a label and a circular article to be labeled, of a driving roller bearing down on and rotating the article to wind the label thereon, an arm in which said driving roller is mounted, gearing within said arm actuating said driving roller, and means for raising said arm to move said driving roller out of operative position to provide a fairway for incoming articles.

1,675,693. ROTARY MOTOR. ISIDORE CAVAZOS, Kingsville, Tex. Filed Aug. 24, 1925. Serial No. 52,019. 1 Claim. (Cl. 123—16.)



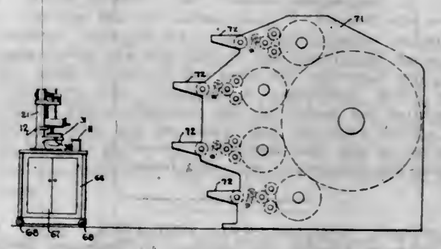
The combination with an engine casing having a fuel inlet bore formed to provide a valve seat, of a fuel supply pipe threaded into the casing and communicating with said bore, a sliding valve normally engaging said seat and including a stem, said casing being recessed to receive said stem, a valve operating rod arranged within the supply pipe, and pivoted between its ends, and connected with said stem, a sliding rod operating through an opening in the supply pipe and connected with the adjacent end of the valve operating rod, a bracket, a rocking lever pivoted on said bracket and connected with said sliding rod, a rotary shaft, and a cam carried by the shaft for intermittently rocking said lever to open the valve, said valve gravitating to its closed position after each operation.

1,675,694. MIXING MACHINE. LESLIE W. CLAYBOURN, Milwaukee, Wis. Filed Dec. 11, 1925. Serial No. 74,773. 19 Claims. (Cl. 83—10.)



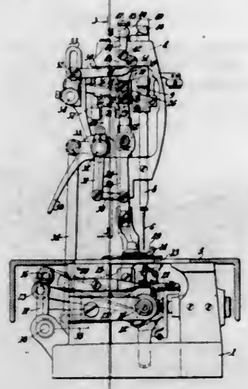
1. In a mixing machine, the combination of a main frame, a gear-frame pivoted thereto, a ring-gear rotatable therein, a mixing bowl pivoted to said main frame, and a rotatable tool in said mixing bowl, said ring-gear coacting with said rotatable tool in said mixing bowl, and the pivotal axes of said gear-frame and of said mixing bowl being in separated relations to each other for noninterferingly tilting said gear-frame and said mixing bowl respectively.

1,675,695. METHOD OF CONDITIONING PRINTING INK. LESLIE W. CLAYBOURN, Milwaukee, Wis. Filed Dec. 11, 1925. Serial No. 74,774. 4 Claims. (Cl. 101—364.)



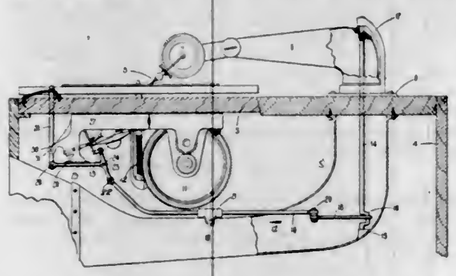
1. In the art of printing, the method which comprises thoroughly stirring previously made ink together with drier added immediately previous to the printing with said ink, and then immediately printing with such ink thus prepared.

1,675,696. PRESSER MECHANISM FOR SEWING MACHINES. ANDREW B. CLAYTON, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Nov. 12, 1926. Serial No. 147,893. 7 Claims. (Cl. 112—207.)



1. In a sewing machine, the combination with an upper four-motion feed-foot, of a spring-pressed presserfoot, and automatic means for reducing the pressure of the presser-foot upon the work during the feeding stroke of the feed-foot, without lifting the presser-foot from the work.

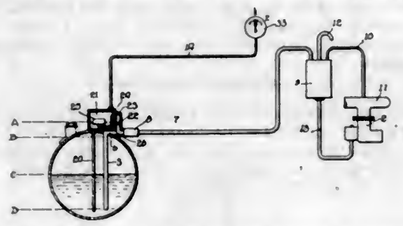
1,675,697. PHONOGRAPH-RECORD-ROTATING MECHANISM. ALEXANDER ROY DAVIDSON, Edmonton, Alberta, Canada. Filed Mar. 17, 1926, Serial No. 95,404, and in Canada Feb. 24, 1926. 2 Claims. (Cl. 188—187.)



1. In combination, record plate rotating means; a governor therefor; a speed control for said governor; a laterally swinging tone arm; a rod extending vertically through the pivotal axis of said tone arm and engaged to turn therewith; the lower end of said rod being bent in crank formation; a connecting rod reciprocally mounted and having one end connected to said control; a second connecting rod having one end pivotally connected to the first mentioned connecting rod and its other end connected to said crank formation.

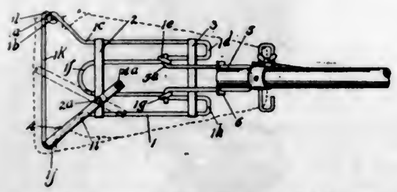
1,675,698. LIQUID-LEVEL INDICATOR. JOHN A. DIENNER, Chicago, Ill., assignor to Stromberg Motor Devices Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 25, 1922. Serial No. 531,596. 3 Claims. (Cl. 73—54.)

1. In combination, a main tank, a casing arranged above the normal level of the liquid in the tank, a conduit extending from said casing to the bottom of the tank, a suction operated indicator, a tube connecting said indicator with the upper end of said casing, a suction operated delivery line also extending substantially to the bottom of the tank, a connection between said



line and said casing above the normal liquid level therein, and means controlled by the level of the liquid in said casing for controlling said connection.

1,675,699. MOP. WILL EVANS, Inglewood, Calif. Filed July 8, 1925. Serial No. 42,206. 2 Claims. (Cl. 15—120.)



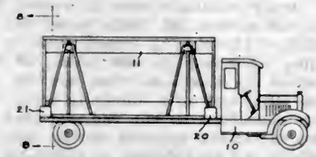
1. In a mop of the class described, a flat mop cloth supporting member provided with a relatively wide front portion adapted to receive the front loop portion of a mop-cloth, a handle pivotally connected to said mop cloth supporting member, a wringer crank member revolubly mounted on said handle provided with a loop adapted to receive the opposite loop end of the mop cloth, a lever member pivotally mounted on said mop cloth supporting member and extending forwardly and adapted to engage the one side of the loop portion of said mop-cloth for shifting the same on the front end of said mop cloth supporting member for contracting the front end of said mop-cloth.

1,675,700. DISPENSING CABINET. WILLIAM FAIRCHILD, Albany, N. Y., assignor to Albany Perforated Wrapping Paper Company, Albany, N. Y., a Corporation of New York. Filed Jan. 19, 1927. Serial No. 162,027. 6 Claims. (Cl. 312—60.)



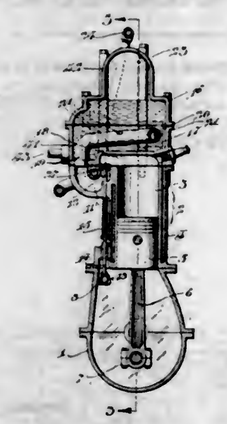
2. A dispensing cabinet for paper packages, said packages being composed of separate units, said cabinet having a support for the package, said support having an opening therein, and guides below said opening and acting to bend the unit being withdrawn in reverse directions.

1,675,701. FREIGHT TRUCK. BENJAMIN F. FITCH, Greenwich, Conn., assignor to Motor Terminals Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 13, 1925. Serial No. 62,250. 8 Claims. (Cl. 296—28.)



1. In combination, a truck frame, means thereon for positioning a container, a container having a door in one wall thereof, and means pivotally mounted on, and extending upwardly from the frame and projecting across the door, and adapted to be locked for preventing opening of said door while the container is on the frame, said means being operable to permit opening of the door while the container is on the frame.

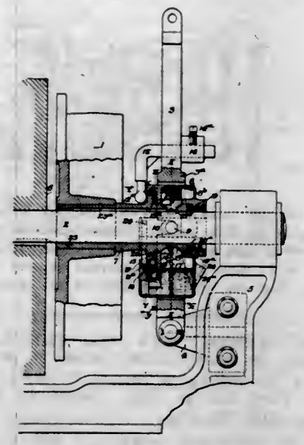
1,675,702. INTERNAL-COMBUSTION ENGINE. JOHN N. FULLER, Lansdale, Pa. Filed May 22, 1926. Serial No. 110,835. 5 Claims. (Cl. 123—25.)



1. In an internal combustion engine provided with cylinders, intake and exhaust gas controlling valves and a cam shaft for actuating the valves; a steam generator mounted on the cylinders and having its bottom wall forming the upper wall of the combustion chambers of the cylinders; steam controlling valves communicating with the generator and the cylinders and operatively connected with the cam shaft for admitting steam into the cylinders, and a conduit connected with the exhaust gas controlling valve and passing through the steam generator.

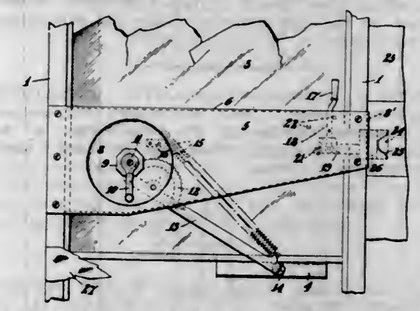
1,675,703. LUBRICATING MEANS FOR LOOSE PULLEYS AND THE LIKE. HARALD F. GADE, Philadelphia, Pa., assignor to Standard Pressed Steel Co., Jenkintown, Pa., a Corporation of Pennsylvania. Filed July 19, 1922. Serial No. 576,022. 20 Claims. (Cl. 192—113.)

1. In a lubricating device for loose pulleys and the like, the combination with a shaft and a loose pulley journaled on said shaft and movable longitudinally of the same, of a shaft engaging portion operatively connected to said pulley and interposed between the same and the shaft and longitudinally movable with the pulley, a shell receiving a body of liquid lubricant held against rotation and longitudinally movable with the shaft engaging portion and pulley; said shaft engaging



portion having a portion projecting into said lubricant-receiving shell, and movable lubricant-distributing means within the shell cooperating with said projecting portion of the shaft engaging portion for distributing lubricant to the same and the shaft.

1,675,704. WINDOW AND DOOR CONSTRUCTION. BERTRAM J. GOLDSMITH and EMIL KOEB, New York, N. Y., assignors, by mesne assignments, to Perfect Window Regulator Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed Aug. 28, 1924. Serial No. 734,583. 5 Claims. (Cl. 268—126.)

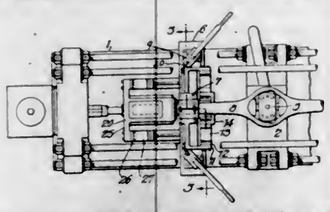


1. In a device of the character described, a frame provided with side members, a window slidable therein, a metallic plate secured to one of said side members and provided with a projecting portion removed from the plane thereof, mechanism for raising and lowering said window positioned upon the outer face of said projecting portion and a handle mounted in said depression and associated with said mechanism for actuating the same.

1,675,705. ELECTRIC WELDING MACHINE. LE ROY H. HOFFER, Brooklyn, N. Y., assignor to Thomas E. Murray, Brooklyn, N. Y. Original application filed Apr. 10, 1924, Serial No. 705,419. Divided and this application filed Aug. 13, 1927. Serial No. 212,621. 2 Claims. (Cl. 219—4.)

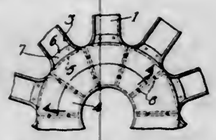
1. In a welding machine for tubular work the combination of electrodes at opposite sides of the work and

movable toward each other to engage and clamp the work between them, switch blades carried by said electrodes at different points in their cross section so as to equalize the distribution of current, a transformer and two sets of stationary switch blades connected to one



terminal of the transformer and located in positions to be engaged by the switch blades carried by the respective electrodes as the latter are moved toward each other so as to distribute the current equally to the two electrodes and the opposite sides of the work.

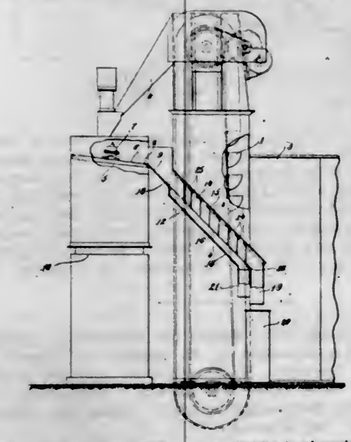
1,675,706. WHEEL NAVE AND THE LIKE AND METHOD OF FORMING IT. HENRY S. HOLMES, New York, N. Y., assignor to Thomas E. Murray, Brooklyn, N. Y. Filed Apr. 21, 1926. Serial No. 103,461. 8 Claims. (Cl. 29—174.)



1. A wheel nave which is removably applicable to a hub composed of radial members with flanges on their longitudinal edges, in combination with an annular plate covering the edges of said flanges and welded to said radial members.

7. The method of producing a wheel nave, which consists in forming radial members with flanges on their longitudinal edges shaped to form a butt-joint between members in the same transverse plane and butt-welding the parts together.

1,675,707. SAND-BLAST-ABRASIVE RECLAIMING CHUTE. FOSTER J. HULL, Hagerstown, Md., assignor to Pangborn Corporation, Hagerstown, Md., a Corporation of Maryland. Filed Sept. 22, 1927. Serial No. 221,237. 1 Claim. (Cl. 209—353.)



The combination with a sand blast abrasive reclaiming apparatus comprising a screen adapted to pass the abrasive as undersize, means for feeding used abrasive to the screen, a supplementary screen receiving oversize with residual unrecovered abrasive from the first mentioned screen and adapted to separate abrasive as undersize, means for delivering the oversize of said supplemental screen to waste, and means for delivering the undersize thereof including the thereby recovered residual abrasive, to the initial feed means.

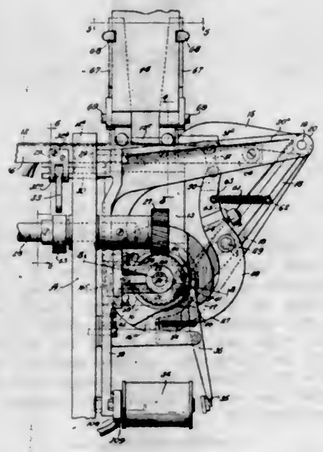
1,675,708. ALLOY. NOAK VICTOR HYBINETTE, Wilmington, Del. Filed Sept. 23, 1922, Serial No. 589,996. Renewed Nov. 17, 1927. 3 Claims. (Cl. 75—1.)

1. An alloy of aluminum with metals of the iron group in which the aluminum forms upwards of about 90% of the alloy, said alloy containing nickel and iron in small but substantial amount, and said alloy containing at least one of the following metals, namely, chromium, tungsten and molybdenum, in substantial amount less than 1%, said alloy being practically free from copper.

1,675,709. HEAT-RESISTING ALLOY AND STRUCTURE. NOAK VICTOR HYBINETTE, Wilmington, Del. Filed Feb. 2, 1924. Serial No. 690,306. 7 Claims. (Cl. 75—1.)

1. An alloy which is heat resisting at high temperatures containing the following ingredients in approximately the following proportions: nickel from about 5 to about 10%, chromium from about 15 to about 25%, carbon from about 1 to about 2%, aluminum from about ½ to about 2%, the remainder mainly iron.

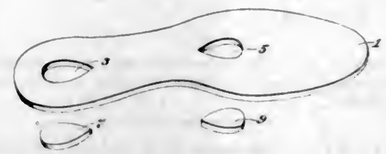
1,675,710. SELECTOR-DISCHARGE MECHANISM. JOHN E. JOHNSON, Chicago, Ill., assignor to Speedumat Addressing Machinery, Incorporated, Chicago, Ill., a Corporation of Delaware. Filed Aug. 7, 1922. Serial No. 580,003. 12 Claims. (Cl. 209—110.)



1. An attachment for a printing machine employing address mats, said attachment comprising a selector to which the address mats are delivered from said printing machine, electric circuit connections that are energized by said selector when it responds to predetermined distinguishing characteristics of said address mats, two receiving receptacles for the address mats, a common actuator that is adapted to operate intermediate said receiving receptacles, said actuator permitting the delivery of

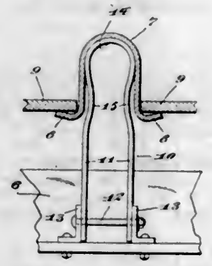
address mats not possessing said predetermined distinguished characteristics to one of said receptacles, and electrical means energized by said electric circuit connections for controlling the proper response of said actuator in accord with said predetermined distinguishing characteristics of the address mats whereby said address mats are delivered to the other of said receiving receptacles.

1,675,711. SHOE. GEORGE A. JONES, Lynn, Mass., assignor to Shoe Products, Inc., Lynn, Mass., a Corporation of Massachusetts. Filed Jan. 29, 1927. Serial No. 164,465. 2 Claims. (Cl. 12—146.)



1. The process of preparing a shoe insole for receiving heel and metatarsal arch supporting cushions, which consist in punching slugs from an insole to form holes in the heel and ball portions of the insole, and leaving the slugs in the insole, that the slugs may be removed at will from the insole when in a manufactured shoe.

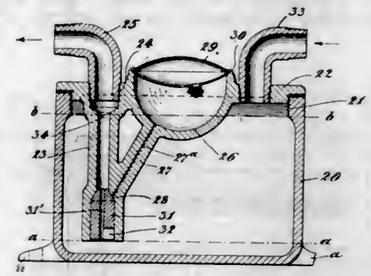
1,675,712. GREENHOUSE. THOMAS EDWARD KING, Westfield, N. J., assignor to Hitchings & Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Sept. 29, 1927. Serial No. 222,779. 5 Claims. (Cl. 189—4.)



1. In a roof construction, in combination with the framework including stringers and covering elements, resilient channel-like sash-bars for supporting said covering elements and adapted to absorb the expansion of said elements, and resilient channel-like means for supporting said sash-bars.

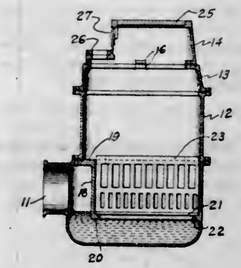
1,675,713. SIGNAL APPARATUS. FREDERICK KLEIN, College Point, N. Y. Filed Sept. 5, 1924. Serial No. 736,004. 19 Claims. (Cl. 116—109.)

16. In a device of the class described, a container, a suction dip pipe extending thereinto, an inlet through which liquid is adapted to be sucked into the container, a signal, an air duct controlling the same and communicating with the dip pipe, a cylindrical slide valve in the dip pipe operable under the influence of liquid flow therethrough to cut off the air port and adapted to gravitationally descend from air port closing position upon cessation of said flow and a vent near the upper end of the



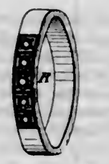
dip pipe and within the container determining the normal liquid level and preventing siphonic action from the dip pipe when no suction is applied.

1,675,714. CATCH BASIN. FRED KOCH, Brooklyn, N. Y., assignor to The Sanitation Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 15, 1926. Serial No. 141,687. 6 Claims. (Cl. 182—6.)



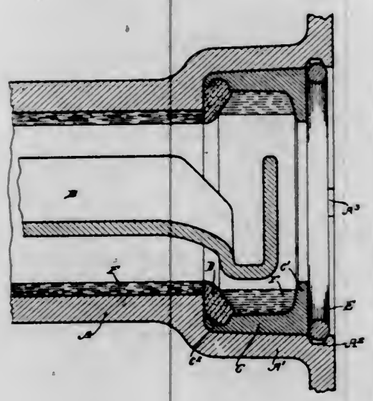
1. In a catch basin, an inlet member, and an outlet member joined thereto, said outlet member having inwardly extending flanges for supporting a filter box and sections supported on said flanges forming a filter box, said filter box having a removable imperforate bottom and opposing removable perforated side walls.

1,675,715. FINGER RING. DANIEL LIFTIN, New York, N. Y. Filed Feb. 26, 1926. Serial No. 90,828. 3 Claims. (Cl. 63—15.)



1. As an improved article of manufacture, a ring comprising a circlet having therein cuts forming facets in imitation of a cut gem and means forming imitations of clamping prongs, the whole giving in effect the appearance of a setting containing a cut diamond.

1,675,716. APPARATUS FOR CASTING PIPE AND OTHER ANNULAR ARTICLES CENTRIFUGALLY. ARTHUR LOSEY, Bay Shore, N. Y., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed Dec. 30, 1925. Serial No. 78,389. 4 Claims. (Cl. 22—65.)



1. A centrifugal pipe mold having an annular receptacle for molten metal at its end separated from the mold proper by a removable annular ridge.

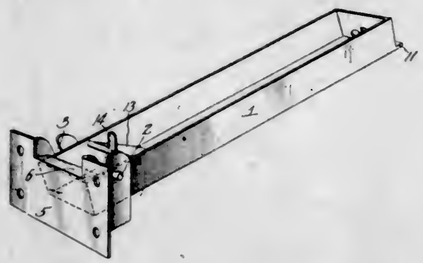
1,675,717. DRYING APPARATUS FOR ROTARY KILNS. FRITZ LUTHER, Dessau, Germany, assignor to G. Polysius, Dessau, Germany, a Firm of Germany. Filed May 26, 1927. Serial No. 194,510. 2 Claims. (Cl. 34—6.)



1. A rotary drum for the heat treatment of material, having at the inlet portion thereof comparatively wide longitudinally curved baffle plates extending lengthwise of the drum, one edge of each baffle being secured to the peripheral wall and the other edges being free, the said baffles being flexible whereby as material falls from the longitudinal free edge thereof, the said edge may oscillate and scatter the falling material.

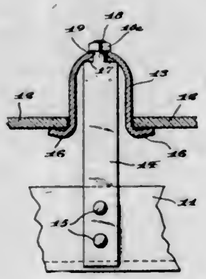
1,675,718. LAUNDRY-CHECKING DEVICE. JOSEPH H. LYNCH, Asbury Park, N. J. Filed Mar. 9, 1927. Serial No. 173,868. 4 Claims. (Cl. 40—19.5.)

1. A holder for identification tags having an orifice at one end, of a shape to admit only tags having a corresponding shape, flanges on the holder with a slot between them into which tags may be passed and upon which said tags may be supported, and an opening in



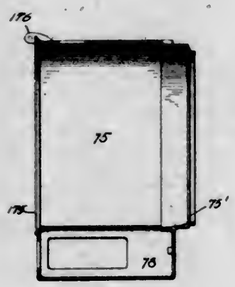
the rear of the holder where the supporting flanges are discontinued so as to permit the tags to drop free of the holder.

1,675,719. GREENHOUSE. JOHN K. MACDONALD, Ridgewood, N. J., assignor to Hitchings & Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Sept. 23, 1927. Serial No. 221,478. 4 Claims. (Cl. 189—4.)



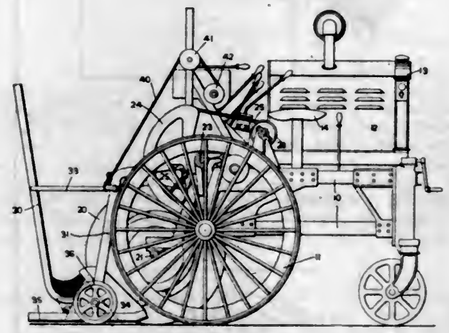
1. In a roof construction including stringers and channel-like sash-bars for supporting covering elements, means of resilient material connecting a sash-bar and a stringer.

1,675,720. SEARCHLIGHT. CHESTER B. MILLS, Brooklyn, N. Y., assignor to Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Aug. 26, 1922. Serial No. 584,399. 3 Claims. (Cl. 240—26.)



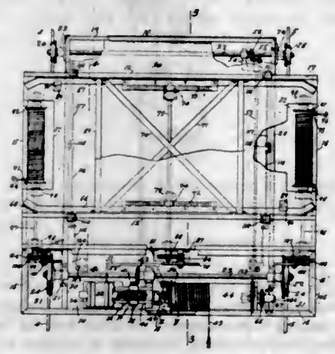
3. A cast metal searchlight drum comprising a body having a ventilation housing formed integral therewith, said body having front and rear openings, a cover for sealing said rear opening, said ventilation housing having an opening, and a detachable cover for sealing said last-named opening.

1,675,721. SAND-TREATING MACHINE. VERNE E. MINICH, Scarsdale, N. Y., assignor to The American Foundry Equipment Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 6, 1927. Serial No. 181,340. 8 Claims. (Cl. 262—2.)



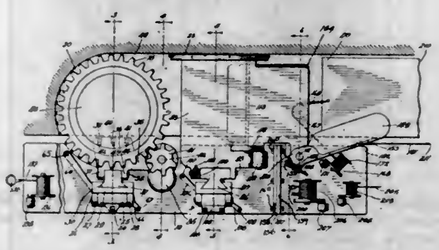
1. A cutting, screening and piling machine comprising a framework mounted upon wheels for movement over a floor, a prime mover carried by said framework for propelling the same, a cutting cylinder mounted for rotational and transaverse movement with respect to said framework, a hoisting cable for controlling the transaverse position of said cylinder with respect to said framework, a screen pivotally mounted at the rear of said cutting cylinder and adapted to receive material impelled from said cylinder, a shroud for directing said material against said screen, a hoisting cable for controlling the position of said screen, and means for vibrating said screen.

1,675,722. TRANSFER CAR FOR MOVING BOXES IN WAREHOUSES AND THE LIKE. CHARLES H. MOORES, New York, N. Y., assignor to Moores & Dunford, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 24, 1923. Serial No. 659,084. 7 Claims. (Cl. 214—16.1.)



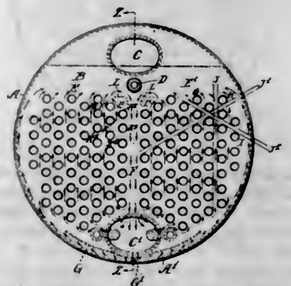
1. In a storage structure, storage compartments, tracks therein, a line of tracks along the compartments at right angles to the tracks therein, a transfer car movable on these latter tracks, tracks on the transfer car, and means carried by the car and cooperating with the tracks in the compartments to move the car to align the tracks on the car and in the compartments and for holding the car against movement after the tracks have been aligned.

1,675,723. MINING AND LOADING MACHINE. EDMUND C. MORGAN, New York, N. Y.; Olive Eugenie Morgan executrix of said Edmund C. Morgan, deceased. Filed July 28, 1922. Serial No. 578,027. 70 Claims. (Cl. 262—27.)



1. In a mining and loading machine, the combination with dislodging mechanism, of a flexible extensible conveyer, a belt adapted to be rolled up and means for operating said flexible extensible conveyer belt to receive the dislodged coal and convey it toward loading position.

1,675,724. FIRE-TUBE BOILER. JOHN PETTY, Lebanon, Pa., assignor to Jo Pet, Inc., Lebanon, Pa., a Corporation of Pennsylvania. Filed Dec. 26, 1922. Serial No. 608,853. 4 Claims. (Cl. 122—51.)

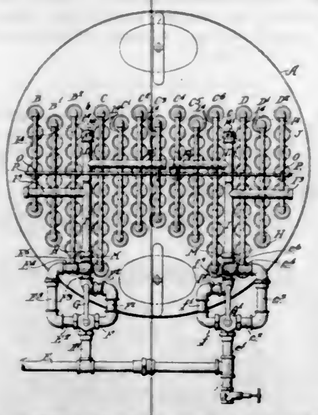


1. In a fire tube boiler, a boiler shell having tube groups extending through it separated by a vertical space for down flow of water in combination with a feed water pipe extending horizontally through the boiler directly above the vertical space between the tube groups, said pipe having downwardly directed openings for the outflow of water throughout its length.

1,675,725. SOOT BLOWER. JOHN PETTY, Lebanon, Pa., assignor to Jo Pet, Inc., Lebanon, Pa., a Corporation of Pennsylvania. Filed May 19, 1923. Serial No. 640,189. 3 Claims. (Cl. 122—391.)

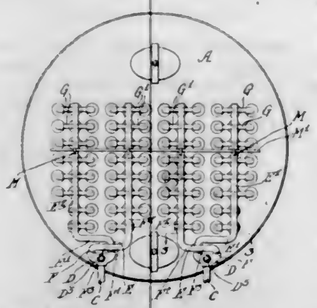
1. In combination with a fire tube boiler having tube groups separated by vertical spaces, a soot blower

construction comprising rotatable steam conduits arranged opposite to the vertical spaces between the tube groups, tubular soot blower frames connected to each



rotatable conduit and steam nozzles connected to said frames spaced to register with the tubes of the respective tube groups when in operative position.

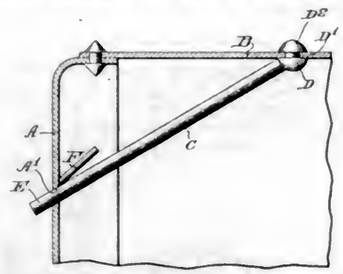
1,675,726. SOOT BLOWER. JOHN PETTY, Lebanon, Pa., assignor to Jo Pet, Inc., Lebanon, Pa., a Corporation of Pennsylvania. Filed Aug. 9, 1923. Serial No. 656,529. 1 Claim. (Cl. 122—391.)



In combination with a fire tube boiler, a soot blower construction comprising in combination a pair of tubular soot blower frames adapted when in operative position to extend over and lie close to separate groups of tubes, steam pipes rotatably supported at one side of the tubular frames to which they are connected, said rotatable steam pipes having angular extensions respectively connecting with said frame, each of said steam pipes being rotatably supported at one side of the respective frame, said angular extensions overlapping each, and one being so formed as to clear the rotatable pipe having the other extension so as to permit either member of the pair of frames to be swung away from in front of the group of tubes it normally faces.

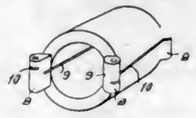
1,675,727. METHOD OF SECURING STAY RODS TO PLATES. JOHN PETTY, Lebanon, Pa., assignor to Jo Pet, Inc., Lebanon, Pa., a Corporation of Pennsylvania. Filed Oct. 1, 1927. Serial No. 223,307. 2 Claims. (Cl. 78—46.)

1. The method of securing a stay rod to a sheet metal plate which consists in inserting the stay rod in a hole in the plate to a position in which its end will project beyond the outer surface of the plate to a sufficient extent to be formed into a rivet head, then securing the rod to one side of the plate by a fused union, then



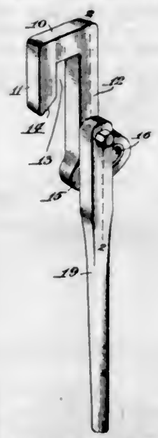
heating the projecting end of the rod to forging temperature and forging it into a rivet head against the outer face of the plate.

1,675,728. ANTIFRICTION BEARING. WINSLOW S. PIERCE, Jr., Bayville, N. Y. Filed Dec. 17, 1925. Serial No. 76,006. 7 Claims. (Cl. 308—216.)



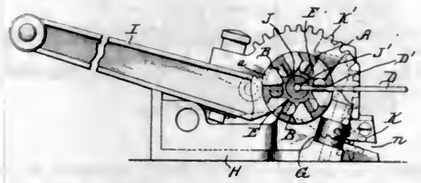
1. A bearing race comprising a longitudinally divided sleeve having a bearing surface, the said sleeve having the two parts thereof contacting with each other across a broken surface extending throughout the length of the sleeve in such a manner that at least part of an edge of this broken surface, contiguous with the bearing surface, is inclined at an angle to any plane containing the axis of the race, so that the edges of the broken surface, remote from the bearing surface, are substantially parallel to the axis of the race.

1,675,729. SUCKER-ROD WRENCH. THOMAS A. REYNOLDS, Los Angeles, Calif. Filed Mar. 16, 1927. Serial No. 175,860. 1 Claim. (Cl. 81—177.)



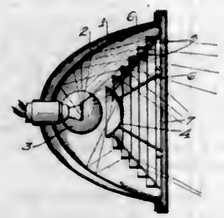
In a sucker rod wrench, a substantially U-shaped integral jaw having a non-circular opening for the reception of a sucker rod, a handle pivotally connected to one of the legs of said jaw and a pin and slot connection between said jaw and handle, said slot being concentrically arranged relative to the axis of pivotal connection between said jaw and handle.

1,675,730. TENSION DEVICE FOR WIRE-TYING MACHINES. FRANK RYCHLEWSKI, Chicago, Ill., assignor, by mesne assignments, to The Gerrard Company, Inc., San Francisco, Calif., a Corporation of Delaware. Filed Feb. 26, 1925. Serial No. 11,631. 13 Claims. (Cl. 254—51.)



2. A tensioning device for wire tying, embodying a head provided with a tie-engaging member, a second tie-engaging member movable relatively to the first-named member and cooperable therewith in producing a tie-receiving space, and means operable for holding the second member in spaced relation to the first member, said head being movable bodily for bending an inserted wire tie and for effecting a gripping engagement by said two named members with said tie adapted to be inserted into said tie-receiving space.

1,675,731. ANTIGLARE AND LIGHT-DISTRIBUTING MEANS FOR VEHICLE HEAD LAMPS. GEORGE L. SCHOFIELD, National City, Calif. Filed Apr. 8, 1925. Serial No. 21,525. 7 Claims. (Cl. 240—48.4.)



1. In a device of the class described, the combination with a conventional headlamp and reflector, of supports positioned near one end of said reflector, a solid curved shield positioned in axial alinement with said reflector and supported by said supports and a plurality of bands positioned around said shield and spaced therefrom and supported by said supports.

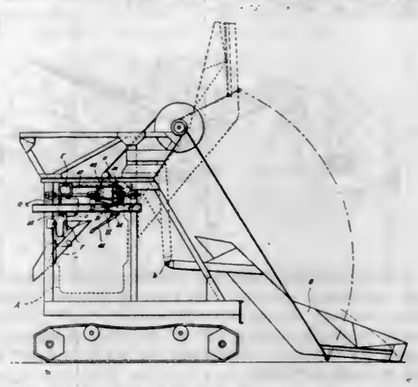
1,675,732. WAX DENTAL FORM AND METHOD OF MAKING SAME. HEINRICH SCHWEITZER, New York, N. Y. Filed July 29, 1925. Serial No. 46,757. 5 Claims. (Cl. 32—6.)



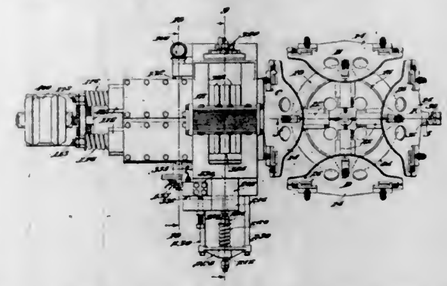
1. A dental wax tooth shell crown comprising a plurality of layers of dental wax having different degrees of hardness.

1,675,733. MECHANISM FOR TIMING THE OPERATIONS OF CONCRETE-MIXING AND OTHER MACHINES. SAMUEL SHAFER, Jr., Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 16, 1926. Serial No. 135,909. 7 Claims. (Cl. 83—73.)

1. In a machine whose operations are to be timed, the combination with a charging means for the machine, of a timing device arranged to be set and to run for a determined time when released, means, manually operated, for controlling the movements of the charging means to deliver its charge and setting the timing device, and means, also manually operated, for controlling the return movements of the charging means and releasing the timing device.

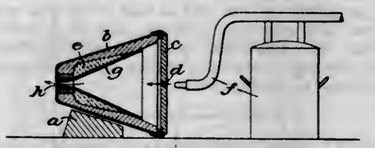


1,675,734. WELDING MACHINE. ARTHUR M. STANLEY, Lynn, and JAMES E. SIMS, Quincy, Mass., assignors to Stanley Steel Welded Wheel Corporation, Boston, Mass., a Corporation of Delaware. Filed Nov. 25, 1921, Serial No. 517,460. Renewed Mar. 10, 1927. 40 Claims. (Cl. 219—4.)



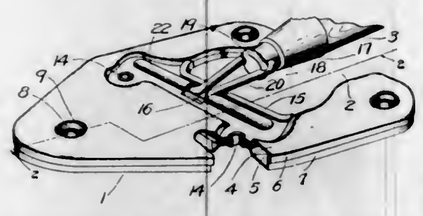
1. A machine for butt welding rim portions of a vehicle wheel having, in combination, welding electrodes, rim holding means, and means for relatively moving the welding electrodes and rim holding means to present successive circular rim portions to a position to weld adjacent ends of the rim portions.

1,675,735. METHOD OF BAKING THE LININGS OF CRUCIBLES. FRANZ STÖHR, Essen/Ruhr, Germany. Filed June 29, 1927, Serial No. 202,292, and in Germany Nov. 18, 1926. 4 Claims. (Cl. 25—157.)



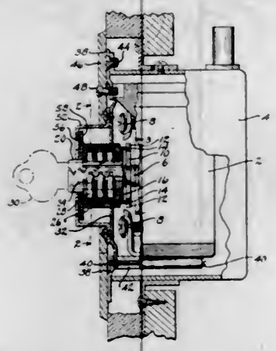
1. The method of baking the refractory linings of crucibles provided with an open top at one end and a tap opening at the other end, which comprises applying a closure to the open top of the crucible, projecting a combustible fluid jet through said opening, and venting the products of combustion through the tap opening.

1,675,736. MOP HEAD. HERBERT M. STURGIS, Kansas City, Mo., assignor to Sturgis Mop Company, a Corporation of Delaware. Filed Mar. 22, 1926. Serial No. 96,531. 5 Claims. (Cl. 15—228.)



1. A mop head comprising separate plate members, a clip interposed between the plate members, including prong bearings arranged longitudinally of the clip and spaced centrally thereof and of the plate members, and means permanently connecting the plate members and clip to form the head.

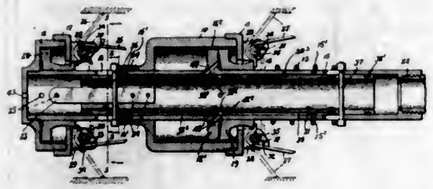
1,675,737. LOCK-CONTROLLED ELECTRIC SWITCH. ERNEST L. TEICH, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Nov. 27, 1926. Serial No. 151,057. 4 Claims. (Cl. 200—42.)



1. In an electric switch the combination of a cup-like base, a switch mechanism contained within said base and having an axial rotatable actuating shaft, a cover for the mouth of said cup-like base, a lock carried by said cover and having a rotatable key-controlled plug adapted to be locked in any one of four positions upon removal of the key, separable coacting coupling members secured to adjacent ends of said plug and shaft, respectively, and screws passing through said cup-like base from rear to front and securing said cover thereto, the casing of said lock projecting on both side of said cover, and having on its rear side reentrant portions, said cover having projections extending into said reentrant portions, and screws having rearwardly facing heads securing said projections to said portions.

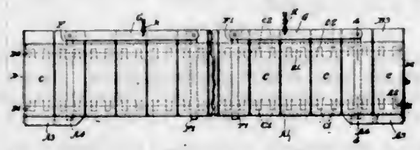
1,675,738. NOZZLE-PROPELLING MECHANISM AND METHOD OF PROPELLING THE SAME. LEE R. TITCOMB, Brooklyn, and HARRY S. ASHMUN, New York, N. Y. Filed Oct. 19, 1926. Serial No. 142,760. 8 Claims. (Cl. 137—70.)

1. A nozzle comprising two relatively slidable parts movable away from each other, the said parts having associated pressure faces, means adapted to supply water under pressure to the said pressure faces of the said parts to move them away from each other, and means



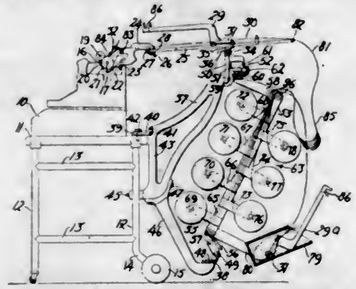
adapted to prevent the rearward movement of that one of said parts which is rearwardly urged by the said water pressure.

1,675,739. FURNACE DOOR. JOHN H. UHRIG, Beverly, N. J., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed July 28, 1927. Serial No. 209,036. 4 Claims. (Cl. 110—173.)



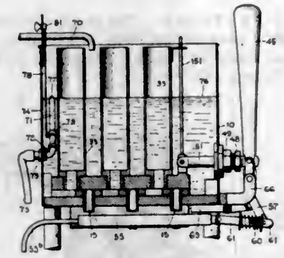
1. A furnace door comprising in combination a channel beam forming the bottom of the door, a series of metal plates forming the front and back faces of the door, resting on and loosely engaged with the flanges of the channel beam, a second channel beam resting on and loosely engaged with the front and back plates and means for raising and lowering the door connected to the lower channel beam.

1,675,740. APPARATUS FOR HOLDING WORK WEBS FOR TYPEWRITING MACHINES. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed June 14, 1922. Serial No. 568,093. 3 Claims. (Cl. 312—39.)



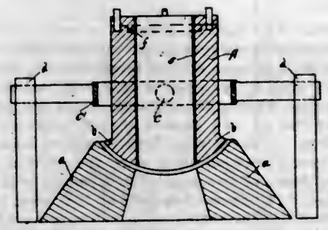
1. The combination with a stand adapted to support a typewriting machine of carbon-carrier type, of brackets mounted on the stand, a movable rack including a plurality of supports and work-sheet-holder rolls arranged in banks in said supports, runways on the brackets supporting the rack whereby the rack may be moved to bring the holder rolls into operative position, rearwardly-extended arms supported on said supports of the rack, and a trough supported on said arms adapted to receive a carbon-carrier usable with the holder rolls.

1,675,741. FILLING MACHINE. OLAF I. WARING, Long Island City, N. Y. Filed Oct. 17, 1924. Serial No. 744,252. 12 Claims. (Cl. 226—102.)



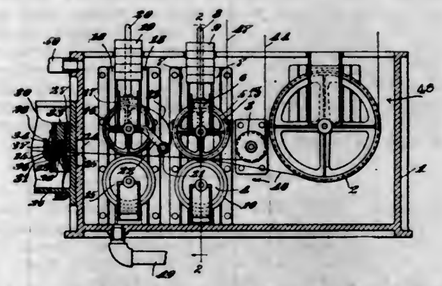
9. The combination of a tank provided at a certain location with a plurality of openings at predetermined spacing, a set of individual compartments disposed within said tank, said individual compartments having openings respectively disposed at said predetermined spacing from one another, means disposed within said tank for determining the amount of fluid received within said individual compartments respectively, means for movably supporting said individual compartments within said tank, said supporting means being provided with clearances for affording the communication therethrough between said openings of said individual compartments with the interior of said tank and means for moving said individual compartments jointly within said tank to move said openings of said individual compartments respectively into communication with said openings of said tank, said supporting means being provided with openings communicating jointly with said openings of said individual compartments and said openings of said tank respectively.

1,675,742. ELECTRODE HOLDER FOR ELECTRIC FURNACES. FERDINAND WECKERLE, Munich, Germany, assignor to Studiengesellschaft fuer Wirtschaft u. Industrie m. b. H., Munich, Germany. Filed Aug. 28, 1925, Serial No. 53,136, and in Germany Sept. 5, 1924. 3 Claims. (Cl. 266—1.5.)



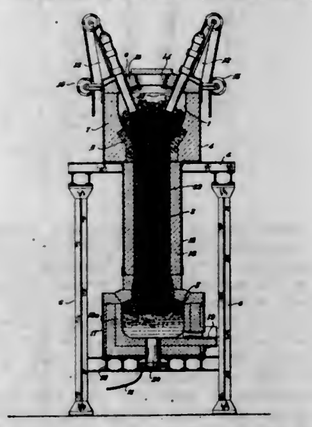
1. In an electrode-holder for electric furnaces and in combination a pedestal having a spherical depression, two standards, a carbon-holder provided with a spherical bottom surface having an air-tight-engagement in the spherical hollow of said pedestal and provided with an inner enamel-lining, a gimbal mounted in said standards, trunnions on said carbon-holder and supported by said gimbal to permit swinging movements of said holder in planes perpendicular to each other, and a stuffing-box at the upper end of the carbon-holder adapted to secure an air-tight closing between carbon and holder.

1,675,743. METHOD AND APPARATUS FOR CONTACTING FILMS. MELVIN G. YOUNG, North Cambridge, Mass., assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass., a Corporation of Maine. Filed May 27, 1927. Serial No. 194,642. 18 Claims. (Cl. 101—130.)



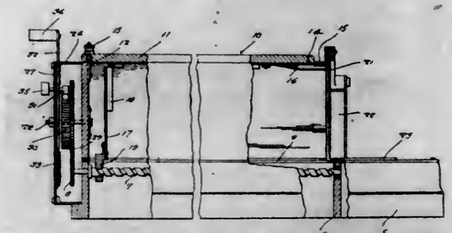
1. A method of printing cinematographic films and the like which comprises contacting the matrix or printing surface and blank surface to be printed, while submerged in a liquid medium.

1,675,744. SHAFT-TYPE ELECTRIC FURNACE. THADDEUS F. BAILY, Alliance, Ohio. Filed July 19, 1927. Serial No. 206,865. 9 Claims. (Cl. 266—1.5.)



1. A shaft type resistance furnace having an electrode at each end and a loose carbonaceous resistor within the furnace extending from one electrode to the other and means for melting a charge of material and passing the molten material downward through the carbonaceous resistor.

1,675,745. CHEESE CUTTER. JAMES L. BARTON, Summer Shade, Ky. Filed May 19, 1927. Serial No. 192,662. 1 Claim. (Cl. 31—17.)



In a structure of the class described, a hollow base, a feed screw mounted for rotation in said base, an

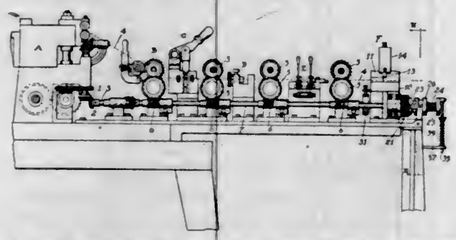
article container, a follower plate mounted for sliding movement in said container, said follower plate having screw threaded connection with said feed screw, a pinion carried by said feed screw, a casing supported against the container and base, said pinion extending into said casing, a shaft mounted for rotation in said casing, a gear fixedly mounted on said shaft, a ratchet wheel carried by said gear, a lever pivotally mounted on said shaft, a spring connected with one end of said lever and with said casing, and a pawl carried by said lever and engageable with said ratchet wheel, said casing being provided with a slot, a pin carried by said pawl and movable through said slot, a knob carried by said pin, whereby to permit said pawl to be reversed.

1,675,746. WIRE-TIE-TWISTING APPARATUS. ADELMER M. BATES, Chicago, Ill., assignor, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill., a Corporation of Delaware. Filed Aug. 25, 1924. Serial No. 733,876. 7 Claims. (Cl. 140—93.)



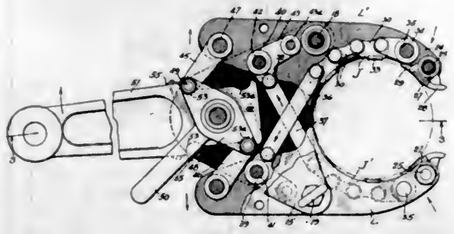
1. In combination, a tie-twisting tool, means for supporting and operating the tool with its axis substantially horizontal, a receptacle mounted above and to the rear of the tool and adapted to contain ties arranged substantially horizontally and parallel wtih the axis of the tool, the end of the receptacle towards the tool being open and there being a slot in the tool adapted to receive the end of a tie, and a guide between the receptacle and tool narrowing to a slot above the tool and adapted to guide the rear end of a tie into the slot in the tool when the forward end of the tie is pulled forward from the receptacle and over the tool.

1,675,747. MACHINE FOR SEVERING WIRE FABRIC. WILLIAM E. BOWLER, Niagara Falls, N. Y., assignor to The Spirella Company, Meadville, Pa., a Corporation of Pennsylvania. Original application filed June 17, 1925, Serial No. 37,731. Divided and this application filed Mar. 26, 1927. Serial No. 178,618. 13 Claims. (Cl. 140—145.)



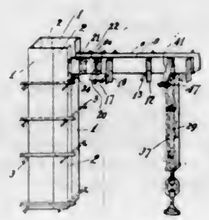
1. Wire fabricating mechanism comprising mechanism for forming a wire fabric, severing mechanism to which said fabric is fed, a clutch for intermittently actuating said severing mechanism, an automatically reversible mechanism, and means controlled by said reversible mechanism for actuating said clutch.

1,675,748. PIPE TONGS. FRANK S. BUNKER, Long Beach, Calif., assignor to Jesse W. Hughes, Compton, Calif. Filed May 19, 1926. Serial No. 110,211. 14 Claims. (Cl. 81—66.)



1. Pipe tongs comprising a pair of flexible jaws, means for supporting the jaws for bodily movement to occupy contracted and expanded positions, means for actuating the first means, and means for drawing the jaws inwardly in opposed directions as they are moved to contracted position by the first means.

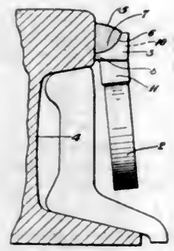
1,675,749. FORM FOR CONCRETE. PRESTON M. CRAWFORD, Pittsburgh, Pa. Filed Mar. 25, 1927. Serial No. 178,302. 1 Claim. (Cl. 25—131.5.)



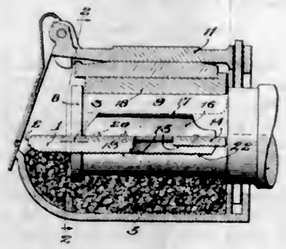
In means for molding concrete columns and beams into a monolithic structure, the combination of hollow forms for said columns and of forms for said beams, and means for securing the ends of said beam forms to their corresponding column forms; said means consisting for each beam-end of two channel-shaped members secured by one flange to the column form in spaced parallel relation to receive between their webs the vertical sides of said beam form, of two angle-iron members each secured by one flange to one vertical side of the beam form, the other flanges of said angle-iron members being adapted to contact with the outer flanges of the channel-members, said contracting flanges having registering apertures, and bolts engaging said apertures for securing said angle-iron members to said channel-iron members.

1,675,750. RAIL BOND. FRANK P. DAHLSTROM and CHARLES L. LARSON, Worcester, Mass., assignors to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Sept. 2, 1921. Serial No. 498,122. 2 Claims. (Cl. 173—278.)

1. A rail bond comprising a flexible conductor having T-head terminals welded to the ends thereof, said terminals having a central core or body formed of cuprous metal and welded to an outer shell of ferrous metal, said shell extending over all but one side face of said cuprous core or body, and said composite terminals having a concave face on one of the shell covered sides thereof, with the portion of said side below said concave face adapted to engage the rail when the bond is put into use.

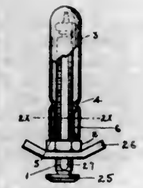


1,675,751. WASTE RETAINER. REAMEY H. DYER, Roanoke, Va. Filed July 25, 1927. Serial No. 208,203. 4 Claims. (Cl. 308—89.)



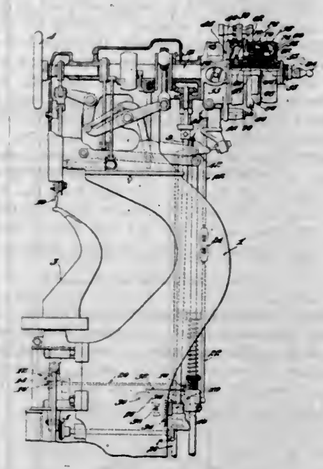
1. A waste retainer for car axle journal boxes, comprising a U-shaped metal structure the end and side members of which have downwardly projecting flanges with teeth on their lower edges to engage the waste, and upwardly projecting means on said side members to engage the bottom surfaces of the journal brass.

1,675,752. VALVE CAP. FRED D. FARR, Perry, N. Y., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 12, 1921. Serial No. 451,834. 3 Claims. (Cl. 152—12.)



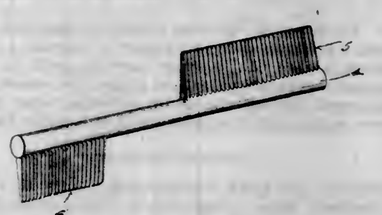
2. A quickly detachable cap for a valve comprising a cap having a bead formed circumferentially around the body thereof, a spring sleeve held loosely in place within said cap and made of sheet metal bent into substantially circular form to fit the cap and left open on one side, said sleeve resting against the bead at one end, the end of the cap being bent inwardly to form a flange to hold the sleeve at the other end and said sleeve having its ends expanded.

1,675,753. MACHINE FOR OPERATING UPON BOOTS AND SHOES. JOSEPH GOULDBOURN and FRED RICKS, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Feb. 3, 1921, Serial No. 442,040, and in Great Britain Feb. 16, 1920. Divided and this application filed Feb. 8, 1923. Serial No. 617,737. 4 Claims. (Cl. 112—220.)



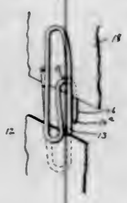
1. A machine of the class described having, in combination, means for operating upon a boot or shoe, a work support arranged to turn as successive portions of the work are presented to said operating means, mechanism for varying the speed of operation of said operating means, a cam arranged to turn with said work support, means operated from said cam for controlling said mechanism to vary the speed of operation of said operating means, and means under the control of the operator for controlling said mechanism to vary the speed of operation of said operating means while said mechanism remains under the control of said cam.

1,675,754. FINGER-WAVE COMB. LOUISE GROM, New York, N. Y. Filed Dec. 2, 1927. Serial No. 237,210. 1 Claim. (Cl. 132—9.)



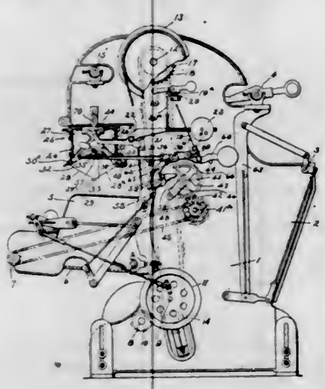
As a new product of manufacture, a finger wave comb comprising a substantially cylindrical backing member provided with two groups of independent rigidly mounted teeth located adjacent the ends and on diametrically opposite sides of the backing member, the innermost teeth of the two groups being spaced apart to leave a blank portion at the center of the backing member.

1,675,755. SHEET-SUPPORTING CLIP. ELIZABETH E. HENDERSON, Dedham, Mass. Filed Feb. 10, 1928. Serial No. 253,352. 2 Claims. (Cl. 24—85.)



1. A clip composed of a length of bent wire including opposed gripping jaws, adapted to grasp an edge portion of an interposed sheet or sheets, the wire being provided with an extended bent end portion including a neck projecting laterally from one side of the clip, midway between the longitudinal edges of the clip, and a terminal extending from the neck beside the jaws and offset by the neck from the clip, the neck being arranged to bear on a support at one side of the clip, and the terminal being arranged to extend below the support and prevent accidental removal of the neck and clip from the support, the arrangement of the neck relative to the longitudinal edges of the clip being such that the clip and a sheet engaged thereby are adapted to hang vertically from said support.

1,675,756. CARD-FEEDING MECHANISM. JOSEPH B. HOWE, Worcester, Mass., assignor to George S. Harwood & Son, Boston, Mass., a Copartnership consisting of Sydney Harwood, Newton, Mass., and John H. Harwood, Brookline, Mass. Filed Nov. 16, 1926. Serial No. 148,688. 16 Claims. (Cl. 249—4.)



1. A machine of the class described comprising a scale beam, a dumping scale pan supported thereby, a movable closure for the pan, a lever operative both to initiate opening of said closure and to restore the closure to normal closed position, and power actuated means for positively moving said lever alternately in opposite directions.

1,675,757. NECKTIE RENOVATOR. JOHN H. JACKSON, Needham, Mass. Filed Jan. 3, 1925. Serial No. 402. 1 Claim. (Cl. 223—19.)

A device of the character described comprising a single length of spring wire bent midway to form two normally divergent spring members and a flat tab having one side crimped over its body portion to form two parallel adjacent runways or grooves for receiving and holding the ends of said spring members; the end of each spring member being bent inwardly toward the end of the other spring member and normally in angular relation thereto in order that when said ends are inserted in their respective runways or grooves in said tab, in parallel relation



each to the other, the friction engendered by said parallel relation will be sufficient to maintain them in any adjusted separated relation.

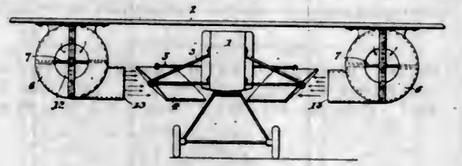
1,675,758. NECKTIE. HUGO LEONI, New York, N. Y. Filed Mar. 2, 1927. Serial No. 172,053. 1 Claim. (Cl. 2—146.)



A necktie comprising a tubular body portion stretchable lengthwise; a rubber lining provided with a plurality of perforations, said perforations being of relatively large size with respect to the stitching passing therethrough, extending the length thereof; and a line of stitches extending through the perforations and engaging the body, said stitches being loosely drawn, whereby the tie may elongate and return to its initial condition.

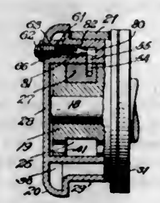
1,675,759. AEROPLANE. GUSTAV A. LUND, Milwaukee, Wis. Filed Sept. 29, 1927. Serial No. 222,884. 4 Claims. (Cl. 244—18.)

1. An aeroplane comprising a fuselage a sustaining plane mounted thereon lifting planes carried at the sides of the fuselage and disposed below the sustaining plane, fan casings carried at the under side of the sustaining plane and located at opposite sides of the fuselage, said fan casings having inlet openings disposed toward the



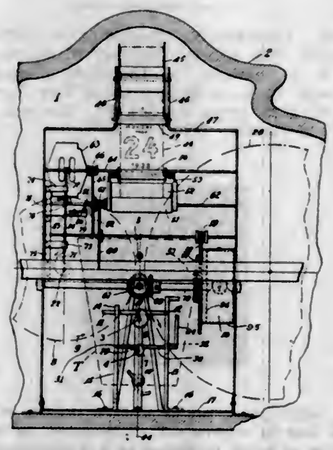
forward edge of the sustaining plane and discharge outlets disposed inwardly toward the lifting planes, fan blades mounted for rotation in the casings and means for rotating the blades.

1,675,760. HYDRAULIC SHOCK ABSORBER. CHARLES W. MANZEL, Buffalo, N. Y. Filed May 6, 1926. Serial No. 107,065. 24 Claims. (Cl. 267—8.)



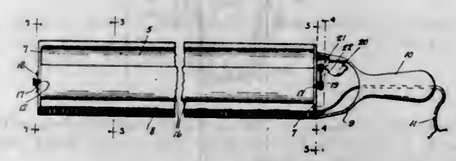
1. A shock absorber, comprising a stator, a rotor mounted on said stator and containing a fluid reservoir, an operating chamber communicating with said reservoir and formed between the bearing faces of the stator and rotor, respectively, cooperating blades carried by said last-named parts and arranged in said operating chamber, and means for automatically controlling the admission and expulsion of the fluid to and from the operating chamber.

1,675,761. CALENDAR CLOCK. MARCO MARTINI, Oakmont, Pa. Filed Jan. 2, 1926. Serial No. 78,799. 4 Claims. (Cl. 58—6.)



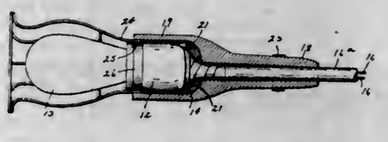
1. In a device for intermittently moving a ribbon, such as the calendar-strip of a clock, the combination of a spring-motor; a moving means for said ribbon; a train of gears interposed between said spring-motor and said moving means, and an escapement mechanism adapted for intermittently operating said moving means by said spring-motor; said escapement mechanism comprising a pin connected to and rotated by said moving means; a bell-crank-lever normally in locking engagement with said pin; a vertical slidable rod; a dog rockably mounted thereon in such a manner as to break the engagement between said bell-crank-lever and pin on the downward movement of said rod, and means for lifting said rod and subsequently causing the sudden drop thereof.

1,675,762. HAIR-STRAIGHTENING DEVICE. ORALEE MATHEWS, Detroit, Mich. Filed Feb. 3, 1928. Serial No. 251,649. 3 Claims. (Cl. 132—14.)



1. In a hair straightening device of the character described, an elongated cupped body, comb teeth formed at one longitudinal edge of the body, a heating coil arranged within the body, a mandrel mounted longitudinally within the body for rotation, and means arranged at one end of the body whereby said mandrel may be rotated.

1,675,763. HANDLE FOR PORTABLE INCANDESCENT LAMPS. CHARLES T. MCCARTHY, South Weymouth, Mass., assignor of one-half to Edward R. Wharton, Medford, Mass. Filed Apr. 25, 1927. Serial No. 186,242. 2 Claims. (Cl. 173—322.)

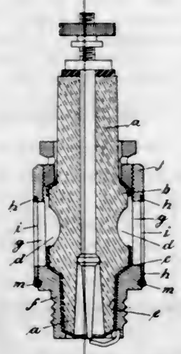


1. A handle adapted for engagement with a portable electric lamp socket, and with a flexible conducting cable connected with the socket, said handle comprising an elongated tubular grip portion whose bore is formed to receive the cable, and an enlarged head portion having a recess formed to receive the lamp socket, the grip portion having longitudinal slots rendering its outer end compressible, so that its bore is adapted to grip the cable and prevent the separation of the cable from the socket, the handle comprising also a clamp embracing the longitudinally slotted portion and adapted to maintain the same compressed on the cable.

1,675,764. SPARKING PLUG. GEORG MICKEL, Lobau, Germany. Filed July 18, 1927, Serial No. 206,763, and in Germany Oct. 19, 1926. 1 Claim. (Cl. 123—169.)

Spark plug with air cooling for internal combustion engines, comprising in combination an insulator having a circular groove in its middle portion of greater diameter than the remainder and forming an air chamber around the insulator, a sparking plug body in which said insulator is located and having openings in the form of slots, a metal sleeve tightly fitting over the lowermost

portion of the insulator and extending up to said air chamber, and a metal sleeve mounted on said sparking plug casing so that it can turn around the same said



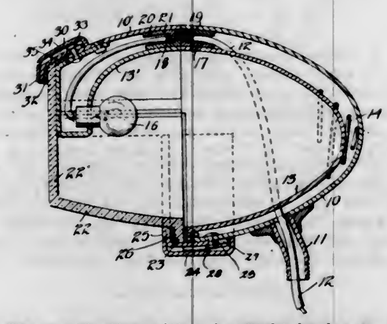
regulating envelope having openings corresponding with said openings in the sparking plug casing which can be closed partly or entirely.

1,675,765. ROTARY CUTTING HEAD. WILLIAM H. O'CONNOR, East Orange, N. J., assignor to John F. Conroy, sr., East Orange, N. J. Filed Apr. 21, 1925. Serial No. 24,893. 10 Claims. (Cl. 144—225.)



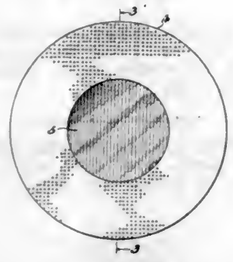
2. A rotary cutting head comprising a shaft, a rectangular body portion on the shaft a plurality of slots in each face of the rectangular body portion, bits in the slots, and plates mounted upon the faces over the bits.

1,675,766. AUTOMOBILE HEADLIGHT. DAVID W. OHAVER, Rockville, Ind. Filed Sept. 7, 1926. Serial No. 134,047. 2 Claims. (Cl. 240—41.)



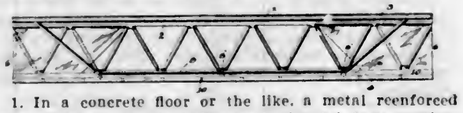
1. The combination with a headlight having an outer casing and a curve parabolic reflector spaced from the walls of said casing, of a curved, detachable, overhanging forward casing, a similarly arranged curved reflector disposed in spaced relation in said forward casing, said detachable casing and reflector terminating in a horizontal plane passing through the longitudinal axis of the parabolic reflector, a lens for said overhanging portion comprising an upright portion on the front end of the lens and a portion extending rearwardly therefrom to the main portion of the headlight for permitting light to shine directly downwardly through the same, and a source of light supported in the forward portion of the overhanging parabolic reflector, substantially as set forth.

1,675,767. HEADLIGHT ATTACHMENT. SAM D. RICH and MINNIE D. RICH, Columbus, Ohio. Filed Dec. 31, 1927. Serial No. 244,013. 2 Claims. (Cl. 240—48.4.)



2. An attachment for headlights including two superposed annular members of foraminous material, means for relatively adjusting said members circumferentially to render said members opaque, and a colored disc of translucent material concentrically arranged with respect to said annular members.

1,675,768. REENFORCED SUPPORTING MEMBER. PETER H. SEREFF, Lima, Ohio. Filed May 12, 1926. Serial No. 108,643. 6 Claims. (Cl. 72—71.)



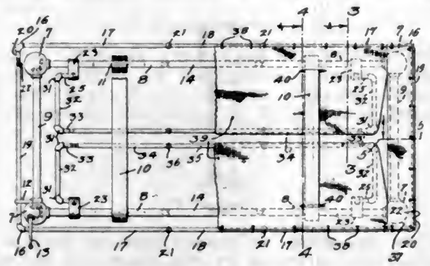
1. In a concrete floor or the like, a metal reenforced supporting member including a horizontal base portion, flanges on said base portion, and tongues struck up from said flanges, whereby the edges of core forms may be mounted between said flanges and their respective tongues.

1,675,769. PROTECTIVE PAPER AND METHOD OF MAKING THE SAME. BURGESS W. SMITH, Rochester, N. Y., assignor to The Todd Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Jan. 27, 1922, Serial No. 532,334. Renewed June 15, 1926. 35 Claims. (Cl. 283—8.)



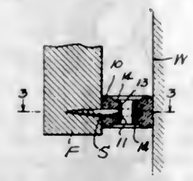
1. A safety paper having marked thereon with erasable ink and in superposed relation two or more patterns, one of which is formed by a multiplicity of closely arranged spots of area bounded by area portions of a different color and combining in superposition with the other pattern or patterns to form an intricate resultant pattern for the paper composed of repeated figures.

1,675,770. GRAVE COVERING AND LINING DEVICE. GUSTAF A. STARK, Atwater, Minn. Filed Nov. 15, 1926. Serial No. 148,348. 20 Claims. (Cl. 27—32.)



1. In combination, a casket lowering device and flexible means for lining a grave as a casket is lowered therein by said device.

1,675,771. ANTIMARRING MEANS FOR PICTURE FRAMES. SIDNEY STERLING, Los Angeles, Calif. Filed June 12, 1926. Serial No. 115,688. 8 Claims. (Cl. 40—145.1.)



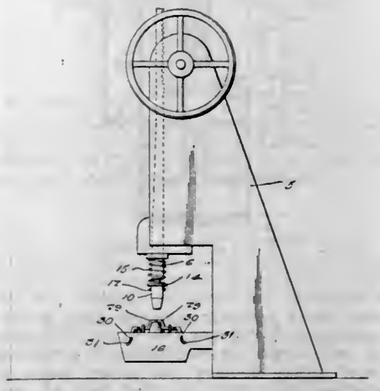
8. In combination, an eye screw, a body formed of yieldable material, in covering relation to the eye of the screw, said body having an opening therethrough, and means for holding the body on the eye of the screw, with the opening in the body registering with the opening in the eye of the screw so as to permit a picture hanging wire to be threaded through the openings.

1,675,772. COMPRESSED-AIR WELL PUMP. FLOYD TEEPLE, Muscatine, Iowa. Filed June 14, 1927. Serial No. 198,764. 4 Claims. (Cl. 103—243.)



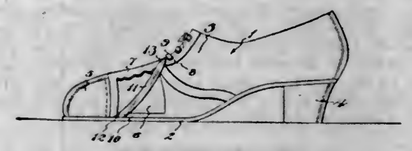
1. In a pump mechanism of the class described, a cross piece adapted to be inserted in a well below the level of the fluid, a supporting structure adapted to be supported above the well, a tank, a pipe, a second pipe, bearings on the cross piece through which the pipes are slidable, the first pipe connected to the top of the tank, the second pipe extending through the top of the tank terminating adjacent the bottom thereof, a check valve at the bottom end of the second pipe, a second valve in the bottom of the tank opening inwardly thereof, a lever supported on the supporting structure being pivoted intermediate its ends, counter-balancing means on the lever, a member connected to the top end of the pipe, a link supporting the member from one end of the lever, a flexible pipe connected to the first pipe, branches leading therefrom, valves in the branches, means for connecting one of the valves with a source of compressed air, air escape means connected with the other valve, and a means operable by the lever for alternately opening and closing the valves.

1,675,773. RIVET HOLDER. JOSEF TISSLER, Philadelphia, Pa. Filed Nov. 29, 1926. Serial No. 151,549. 2 Claims. (Cl. 78—53.5.)



1. A device of the class described, including a supporting structure having a recess and a pocket in the recess, a shank movable in the pocket, a head on the shank in the recess, a cross member adjustable on the shank, links pivoted to the cross member, fingers pivoted intermediate their ends to the links, the side walls of the recess being provided with slots, said fingers having pins extending into the slots, a spring means normally urging the shank upwardly and the fingers in a position to engage the rivet on the top of the head, said slots being curved to direct the fingers away from the head when the head is moved downwardly.

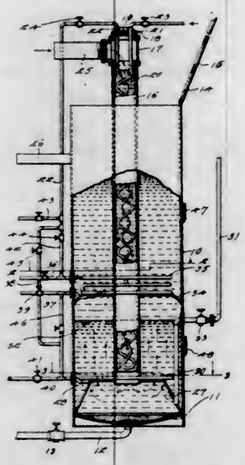
1,675,774. SHOE. ALICE M. TUCKER, East Orange, N. J. Filed Nov. 15, 1927. Serial No. 233,461. 1 Claim. (Cl. 36—45.)



A shoe comprising a sole and an upper, said upper having openings formed in its side portions in spaced relation to the toe of the shoe and having their lower edges terminating in spaced relation to the sides of the sole to provide marginal strips joining the toe portion of the upper to the portions thereof at the rear of the side openings, and strips extending diagonally across

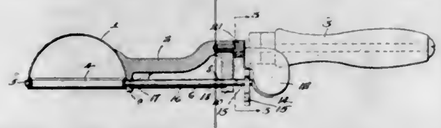
the side openings with their lower ends secured adjacent the forward ends of the marginal strips and their upper ends converging and secured to the upper at the rear of and between the openings.

1,675,775. APPARATUS FOR THE TREATMENT OF CRUDE OIL. JOSEPH C. UMBARGER, Cedar Grove, La. Filed Jan. 18, 1927. Serial No. 161,861. 8 Claims. (Cl. 196—5.)



1. In apparatus for removing sediment and water from crude oil, a vertically elongated tank having an outlet adjacent its upper end and an oil inlet adjacent its lower end, means for maintaining a predetermined water level within the tank and unitary means below the water level and above the inlet both for heating the water and agitating the same to cause the same to move circumferentially of the tank.

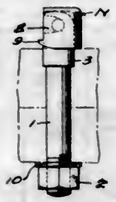
1,675,776. ICE-CREAM DIPPER. SIDNEY B. WHITESIDE, New York, N. Y. Filed July 21, 1926. Serial No. 124,042. 12 Claims. Cl. 107—48.)



12. In an ice-cream dipper, the combination of a bowl, a scraper movable about an axis extending transversely of the bowl, a shank projecting from the bowl, a handle carried by the shank, a rock shaft on which the scraper is mounted extending in a direction lengthwise of the shank, a thumb lever pivoted to the shank, the rock shaft having an eccentric pin and the thumb lever having a cam slot for receiving the pin.

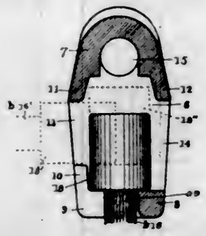
1,675,777. BOLT. SCOTT L. WILSON, Dinuba, Calif. Filed June 16, 1927. Serial No. 199,318. 2 Claims. (Cl. 85—9.)

1. In combination, a shank provided at one end portion with opposed sides having open recesses, and a caplike nut to receive said end portion, said nut being provided with inwardly directed lugs engaging within the recesses when the nut is in applied position, said nut having one side open to facilitate said engagement



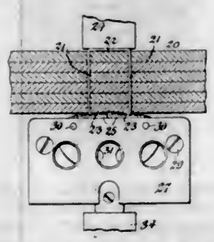
of the lugs within the recesses, said nut when in a second position having its side opposed to its open side substantially in contact with the shank.

1,675,778. CHOKER-HOOK RIGGING. OSCAR A. WIRKKALA, Deming, Wash. Filed Feb. 6, 1926. Serial No. 86,485. 1 Claim. (Cl. 24—123.)



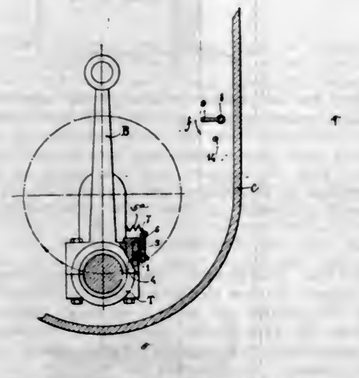
In a choker hook rigging in combination, a choker hook consisting of a sleeve eye, U-form hook jaws, a hook-shank disposed between said sleeve eye and said jaws integral therewith, a socket beneath said sleeve eye opposite said jaws, and a boss projecting from the point of each of said jaws toward said eye, said shank having a transverse hole therethrough intersected by a narrower slot between said jaws and said bosses; and a cable narrower than said slot with a cylindrical knob smaller than said hole and wider than said slot centrally fixed on one end of said cable axially therewith, said cable operatively disposed between said jaws with the inner end of said knob seated on said jaws behind said bosses and the outer end of said knob adapted to enter said socket as said cable moves within said hook between said jaws.

1,675,779. CLINCHER FOR WIRE-STAPLING MACHINES. HOWARD G. ALLEN, Niagara Falls, N. Y., assignor to Morrison Stitcher Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed July 17, 1926. Serial No. 123,221. 2 Claims. (Cl. 1—4.)



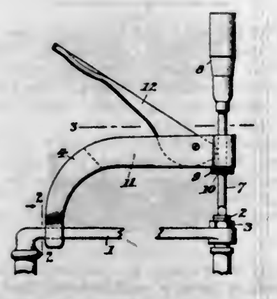
1. A clincher for wire stapling machine provided on its face with a plurality of guide grooves arranged parallel and lengthwise of the clincher, each of said grooves being of the same V-shape cross-section throughout its length; and the summit of the walls between adjacent grooves being flat and of the same width throughout the length thereof.

1,675,780. METHOD AND MEANS FOR PREVENTING OVERHEATING OF BEARINGS. EMILE ALBERT MARIUS ALRIC, Portes, near La Vernarede, France. Filed Oct. 20, 1925, Serial No. 63,750, and in France Feb. 9, 1925. 3 Claims. (Cl. 192—129.)



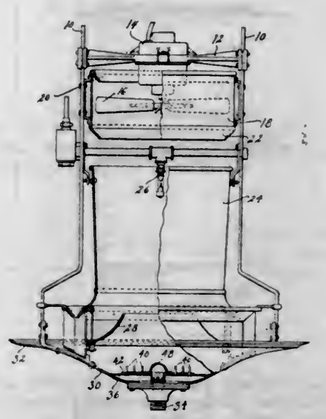
1. In combination with a movable machine element, a bearing member movable with said machine element, a fuse mounted directly on said bearing element and fusible thereby when said bearing element is overheated, an actuating element also carried by said bearing element and movable to actuating position, a controlling element held by said fuse and normally holding said actuating element in inopertiave position, said actuating element being released by the melting of the fuse and its consequent release of said controlling element and functioning apparatus including a controlling member, said controlling member being normally out of the path of movement of said actuating member and in the path of movement of said actuating member, for engagement thereby, when said actuating member is released upon the fusion of the plug.

1,675,781. VALVE-ADJUSTING TOOL. CARL O. ANDERSON, Mitchell, S. Dak. Filed Dec. 1, 1927. Serial No. 237,111. 5 Claims. (Cl. 81—3.)



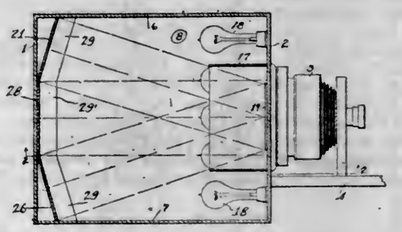
1. A valve adjusting tool comprising a frame having angularly disposed end portions one of which is provided with spaced lugs, the other end portion having an opening, a screw driver shaft received in said opening, a collar mounted upon the shaft and engaging the frame, and a cam lever pivoted upon the frame and having a working end adapted to impinge the screw driver shaft.

1,675,782. HUMIDIFIER. JOSEPH ARMSTRONG, Allston, Mass., assignor to American Moistening Company, Boston, Mass., a Corporation of Maine. Filed Oct. 8, 1926. Serial No. 140,373. 6 Claims. (Cl. 210—149.)



1. The combination, with a pan and drain, of a lint collector comprising a horizontal plate set in the pan in the course of water therein flowing to the drain, with a multiplicity of arresting elements on the plate and distributed through said course.

1,675,783. PHOTOGRAPH-ENLARGING LIGHT BOX. CHARLES L. BEAL, San Francisco, Calif. Filed Apr. 22, 1925. Serial No. 24,981. 5 Claims. (Cl. 88—24.)



1. In a light box for reproducing cameras, the combination of an enclosure, a plate support therefor, a series of lights in the front end of the enclosure, a shield on said front end to prevent direct rays from the lights from striking the plate, and several light reflecting surfaces arranged normal to lines therefrom to corresponding points on the plate covered with a material capable of reflecting a strong and evenly distributed light to said plate.

1,675,784. TYPEWRITER COPYHOLDER AND LINE MARKER. PRESTON L. BLAKE, Amarillo, Tex. Filed Jan. 20, 1925. Serial No. 3,619. 4 Claims. (Cl. 120—34.)

1. A copy holder which includes two spaced pairs of relatively thin and wide springy strips, the strips of each pair having their wide sides confronting one another, a horizontal plate to be seated on a table and to extend under a typewriter, a copy-holding plate, and means securing the copy-holding plate to the spaced pairs of strips over said horizontal plate, said strips of each pair including horizontally extending parts which are superposed upon one another and upon said horizontal plate and secured to the latter, said strips having juxtaposed parts fixedly secured to one another at points above said

horizontal plate and thus forming relatively stiff upright supporting parts, the parts of said strips which extend up from said stiff upright parts to said copy-holding

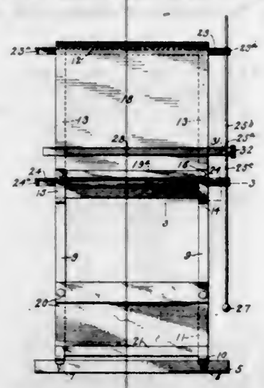
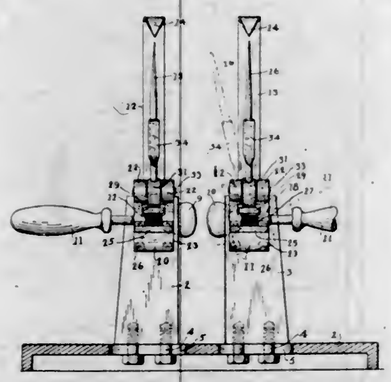


plate being forwardly and downwardly bowed and spaced from one another to provide a springy support for said copy-holding plate.

1,675,785. RAIL-BOND STRAIGHTENER. ORRIN W. BRICKER, Cleveland, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Sept. 4, 1925. Serial No. 54,481. 11 Claims. (Cl. 153—40.)

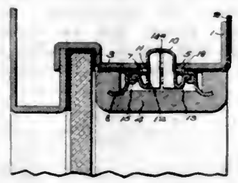


1. In an apparatus of the class described, a base, standards carried thereby, one of said standards being adjustable, clamping devices carried by said standards for clamping the ends of a rail bond, each of said clamping devices being rockable as a unit on said standards and independent of each other, and separate means to rock each of said clamping devices.

1,675,786. PROCESS FOR THE PRODUCTION OF CARBONATES. MAX BUCHNER, Hanover-Kleefeld, Germany, assignor to Albert Fritz Meyerhofer, Zurich, Switzerland. Filed June 18, 1925, Serial No. 38,100, and in Germany June 14, 1924. 17 Claims. (Cl. 23—61.)

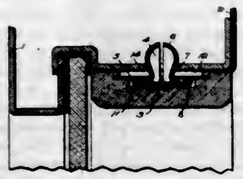
1. The improvement in the art of obtaining soluble carbonates from fluorides by reaction with carbonates that produce therewith insoluble fluorides, which comprises carrying out the reaction under pressure above atmospheric pressure.

1,675,787. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Original application filed Feb. 26, 1925, Serial No. 11,695. Divided and this application filed Aug. 25, 1925. Serial No. 52,317. 5 Claims. (Cl. 24—213.)



1. A fastener stud installation comprising, in combination, a casing presenting a plurality of attaching prongs bent outwardly from the inner periphery of said casing into a rigid support, the outer face of said casing being flush with the support, and a laterally shiftable stud part held in said casing and having a head and a neck extending beyond the outer face of said casing.

1,675,788. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Original application filed Feb. 26, 1925, Serial No. 11,696. Divided and this application filed Aug. 25, 1925. Serial No. 52,318. 6 Claims. (Cl. 24—213.)



6. A stud unit comprising a stud member having contractible and expansible head and neck portions and a base, and an attaching plate presenting an aperture therethrough of smaller diameter than the normal diameter of the head of the stud through which the head is snapped to secure the two parts together and a plurality of initially bent pointed attaching portions presented at the outer periphery of said attaching plate for securing said unit to a support.

1,675,789. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Original application filed Feb. 26, 1925, Serial No. 11,697. Divided and this application filed Aug. 25, 1925. Serial No. 52,319. 3 Claims. (Cl. 24—213.)



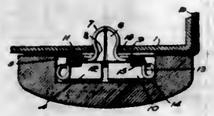
1. A fastener comprising, in combination, a stud having a head and a base, a stud-securing part presenting a face underlying said base, a rim surrounding said base while providing clearance permitting lateral shifting of said stud relative to said securing part and a flanged-in rim on said securing part overlying said base at the side thereof opposite said face, and attaching prongs integral with said securing part and projecting from said face in a direction opposite to that in which said head extends.

1,675,790. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Original application filed Feb. 26, 1925, Serial No. 11,698. Divided and this application filed Aug. 25, 1925. Serial No. 52,320. 4 Claims. (Cl. 24—213.)



1. A separable fastener unit comprising, in combination, two socket-engaging stud members secured together at their bases, and means permitting substantial lateral shifting movement of each stud relative to the other for alignment with their respective stud-receiving apertures.

1,675,791. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Original application filed Feb. 26, 1925, Serial No. 11,699. Divided and this application filed Aug. 25, 1925. Serial No. 52,321. 2 Claims. (Cl. 24—213.)



1. A separable fastener unit comprising, in combination, two resilient stud members secured together and facing in opposite directions, one of said stud members presenting a ringlike socket-engaging portion and said other stud presenting a ball-shaped socket-engaging portion, and means provided by said stud members to permit substantial lateral shifting of said stud members relative to each other for alignment with their cooperating stud-receiving apertures.

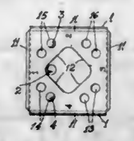
1,675,792. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Original application filed Feb. 26, 1925, Serial No. 11,700. Divided and this application filed Aug. 25, 1925. Serial No. 52,322. 5 Claims. (Cl. 24—213.)



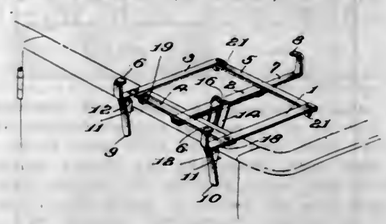
1. A fastener stud unit including a casing having a collapsible peripheral wall portion for securing said casing to a support and a socket-engaging stud part assembled with said casing and adapted to be secured to said support by the collapsible wall portion of said casing.

1,675,793. SAFETY RAZOR. GUILLERMO DIAZ DEL CASTILLO, Habana, Cuba. Filed Sept. 15, 1926, Serial No. 135,659, and in Cuba Apr. 19, 1926. 3 Claims. (Cl. 30—12.)

1. A safety razor comprising supporting and cover plates and a razor blade placed between them, all of which are of practically square shape in their outline, the supporting and cover plates having their respective clamping stems and holes to one side of their middle transverse lines, and the razor blade having its four edges sharpened and series of holes distributed in square form so that at least three of them will register vertically with the stems of the supporting plate and the holes of the cover plate in the four different positions that can be adopted by the razor blade.

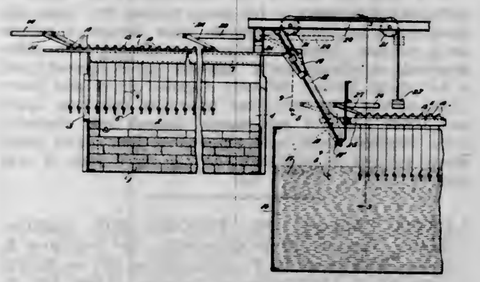


1,675,794. DETACHABLE SUPPORTING STAND. HARRIS C. COLEMAN, Fort Worth, Tex., assignor, by mesne assignments, to Tray Service Company, Dallas, Tex., a Corporation. Filed Dec. 7, 1923. Serial No. 679,186. 8 Claims. (Cl. 45—51.)



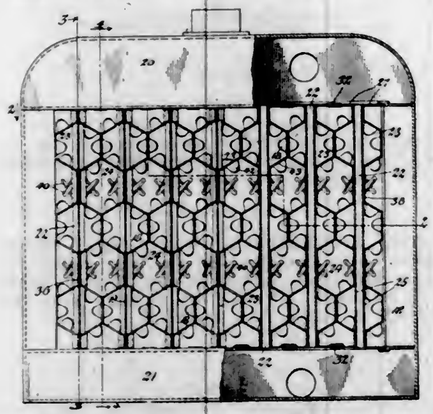
1. A serving tray for automobiles and the like comprising two interconnected substantially parallel supports, each having a corresponding end curled upwardly to form one member of a tray clamp, an intermediate support having its end curled in opposition to the first-mentioned curled ends to form the supplementary tray clamping member, a pair of feet, each being pivoted to and depending from the end of each support and arranged to fold substantially flat to the underside of said support, and a central foot hingedly connected to said intermediate member and depending downwardly in spaced relation to said pair of feet whereby to receive therebetween the upstanding edge of an automobile door or other support, said central foot also being arranged to fold substantially flat to the underside of said support.

1,675,795. DISCHARGING AND QUENCHING MECHANISM FOR FURNACES. FRANK T. COPE, Salem, Ohio, assignor to The Electric Furnace Company, Salem, Ohio, a Corporation of Ohio. Filed Mar. 5, 1925. Serial No. 13,135. 3 Claims. (Cl. 266—4.)



1. A heat treating furnace including pusher means for moving material continuously through the furnace and independent pusher means for rapidly discharging and quenching the material as it reaches a point spaced from the discharge end of the furnace.

1,675,796. RADIATOR. JOHN M. FEDDERS, Buffalo, N. Y., assignor to Fedders Manufacturing Company, Inc., a Corporation of New York. Filed Feb. 11, 1925. Serial No. 8,556. 3 Claims. (Cl. 257—130.)



2. A radiator comprising a plurality of water tubes and a plurality of air passages arranged between adjacent water tubes, each of said water tubes having opposite sheet metal walls, and two spacing strips of corrugated sheet metal arranged on opposite sides of each water tube and having the intermediate parts of one set of alternate corrugations engaging with the outer sides of said walls and the opposite end portions thereof opposing each other, said corrugations thus forming a plurality of air passages which are traversed by the respective water tube, and the other set of alternate corrugations engaging the corresponding corrugations associated with an adjacent tube and forming therewith a row of air passages which are not traversed by a water tube, each of said spacing strips having laterally projecting inclined wings which are struck out of the same and the wings on the strips of adjacent tubes being inclined in opposite directions and interlocking with each other.

1,675,797. UNIT FOR USE IN THE MANUFACTURE OF SEPARABLE CUFF LINKS. SIGMUND FISCHER, Providence, R. I. Filed Apr. 18, 1927. Serial No. 184,776. 8 Claims. (Cl. 24—102.)

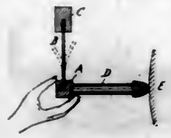


1. A unit for use in the manufacture of separable cuff links comprising a top plate having two holes disposed on diametrically opposite sides thereof, a bottom plate of any desired configuration having two holes disposed on diametrically opposite sides thereof, and a flat shank having obliquely disposed upper and lower edges having lugs projecting integrally from the upper and lower edges of said shank through said diametrically disposed holes, said top and bottom plates being firmly secured to said shank by the upset ends of said lugs.

1,675,798. ALLOY AND PROCESS FOR MAKING SAME. RUSSELL FRANKS, Brooklyn, and BURNHAM E. FIELD, Douglaston, N. Y., assignors to Haynes Stellite Company, a Corporation of Indiana. Filed Jan. 8, 1925. Serial No. 1,305. 7 Claims. (Cl. 75—1.)

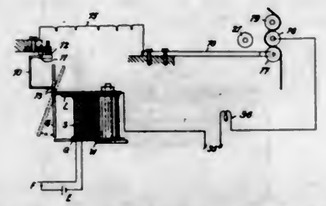
1. An alloy containing from 3 to 5% aluminum, 3.5 to 6% silicon, 5 to 12% tungsten, 6 to 12% zirconium, boron in substantial and effective amounts up to 1%, the balance being principally nickel.

1,675,799. MECHANISM FOR MEASURING THE FREQUENCY OF THE PULSE. RUDOLF GOLDSCHMIDT, Charlottenburg, Berlin, Germany. Filed Jan. 7, 1926, Serial No. 79,880, and in Germany Jan. 10, 1925. 19 Claims. (Cl. 128—2.)



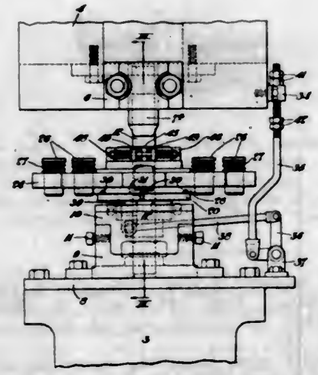
1. A resonance speedometer for measuring the frequency of the pulse consisting essentially of a series of oscillatory bodies capable of resonance and tuned in steps to the pulse frequency of humans and means to cause these bodies to oscillate under the influence of the pulse.

1,675,800. MECHANISM FOR MEASURING THE FREQUENCY OF THE PULSE. RUDOLF GOLDSCHMIDT, Charlottenburg, Berlin, Germany. Filed Sept. 8, 1926, Serial No. 134,304, and in Germany July 29, 1926. 8 Claims. (Cl. 128—2.)



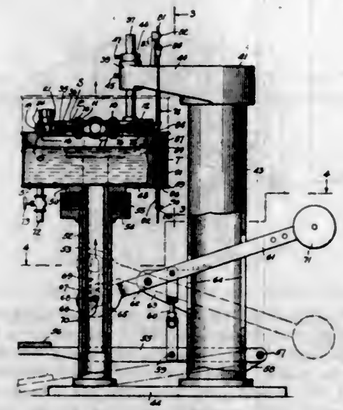
1. Mechanism for measuring and recording low frequencies especially the frequency of the pulse consisting essentially of a series of pendulums containing iron and suspended in the vicinity of a wire bobbin, this bobbin being connected to the source of the low frequency current, the bobbin containing an iron core having pole-shoes, the magnetic field being arranged thus, that the pendulums tuned to frequencies above the resonance point oscillate in a smaller degree than those turned to frequencies below the resonance point.

1,675,801. STAMPING APPARATUS. THOMAS A. GONMAN, Johnstown, Pa. Filed Sept. 23, 1926. Serial No. 137,313. 10 Claims. (Cl. 101—3.)



1. A stamping apparatus comprising a housing, a reciprocating plunger, a work support below said plunger, a center post secured to said housing, a stamp disk revolvably mounted on said post and extending into the space between said plunger and work support, a plurality of stamps carried by said disk, said plunger being adapted to be reciprocated to strike said stamps, and means operable by said plunger for rotating said disk.

1,675,802. TESTING MACHINE. FERDINAND A. HAMILTON, Los Angeles, Calif., assignor, by direct and mesne assignments, to Southern California Gas Company, a Corporation of California. Filed Jan. 5, 1926. Serial No. 79,432. 9 Claims. (Cl. 73—51.



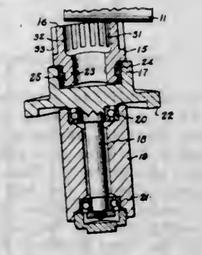
1. A testing machine of the character described comprising a fitting supporting and sealing device including a stationary head supported in elevated position and having fixed and movable sealing elements between which a fitting to be tested is adapted to be interposed and clamped with its openings hermetically sealed, a liquid containing receptacle mounted for movement to occupy one extreme position in which the fitting is emerged from the liquid and a second extreme position in which the fitting is submerged in the liquid, one of said sealing elements having a passage therethrough communicating with the interior of the fitting when clamped in the head, a pipe connected to a source of fluid supply under pressure and connected to said head in communication with said passage, a fluid admission valve and a fluid vent valve in said pipe, said valves normally urged to closed position, and means operatively connected to said receptacle for alternately opening said valves to either admit fluid to the interior of the fitting or vent the interior of the fitting to atmosphere according as the fitting is submerged or emerged.

1,675,803. SHEET-FEEDING GUIDE FOR EXPANDING MACHINES. HAROLD FROST HEWETSON, Youngstown, Ohio, assignor, by mesne assignments, to Truscon Steel Company, Youngstown, Ohio, a Corporation of Michigan. Filed Sept. 27, 1924. Serial No. 740,312. 3 Claims. (Cl. 164—6.5.)



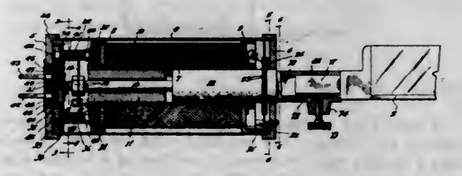
1. A sheet feeding device for expanding machines including a guideway having a substantially horizontal portion and a substantially vertical portion and a guard roller arranged about said substantially vertical portion.

1,675,804. ABRADING NIB FOR ABRADING MACHINES. FERDINAND J. HOHNHORST, Covington, Ky. Filed Jan. 31, 1927. Serial No. 164,831. 6 Claims. (Cl. 125—37.)



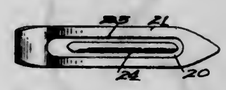
1. A rotatable abrading nib for coaction with the grinding face of a grinding wheel, said rotatable abrading nib having an end-contact abrading face and holes in said end-contact abrading face at different radial distances from the axis of rotation of said rotatable abrading nib movable in circles of different diameters across said grinding face of the grinding wheel.

1,675,805. ELECTRIC RAZOR. JARRETT C. HOLCOMB, Sulphur Springs, Tex., assignor of one-half to Robert F. Cameron, Dallas, Tex. Filed Sept. 28, 1927. Serial No. 222,641. 13 Claims. (Cl. 175—338.)



1. In a device of the character described, a handle comprising a casing, a solenoid in said casing including a coil and a plunger extending through the coil and projecting from its ends, one end portion of the plunger extending out of the handle and constituting a blade holder, and a resilient strip in the casing extending transversely thereof and secured at its ends and having its intermediate portion engaged with said plunger to yieldably support the plunger and permit the same to be intermittently drawn inwardly when the coil of the solenoid is energized.

1,675,806. CLASP. CROFTON C. HOLDEN, Leominster, Mass., assignor to Royal Comb Company, Leominster, Mass., a Corporation of Massachusetts. Filed Aug. 1, 1924. Serial No. 729,644. 1 Claim. (Cl. 24—259.)



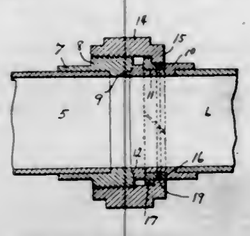
A clasp formed of an integral piece of resilient material bent to a substantially U-shape, one leg of the U forming a continuous frame about a longitudinal elongate opening, and the other leg being provided with an integral elongate rib of substantially smaller dimensions than said opening and adapted normally to extend substantially centrally thereinto, said rib gradually decreasing in thickness toward each end of said opening, and the leg having the rib being wider than said opening.

1,675,807. CAN OPENER. EROL V. HOUGHTON, Syracuse, N. Y. Filed Aug. 11, 1927. Serial No. 216,753. 4 Claims. (Cl. 220—48.)



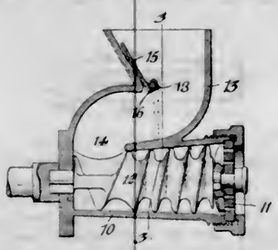
1. A can opener arranged to be permanently mounted upon the head of a can, comprising a strip of flexible metal folded upon itself to provide a long and a short arm, the free end of the short arm adapted to pivotally engage the central portion of the head of the can, said strip being sheared adjacent the fold for providing a cutting-spur that projects beyond the bend adapted when the long arm is swung from the horizontal to the vertical position to pierce the head adjacent its periphery, and said long arm adapted when bent forwardly and downwardly to be rotated for causing the said spur to cut a circular opening in the head.

1,675,808. PIPE JOINT. CHARLES J. KLISS, Scranton, Pa. Filed Feb. 5, 1927. Serial No. 166,191. 1 Claim. (Cl. 285—120.)



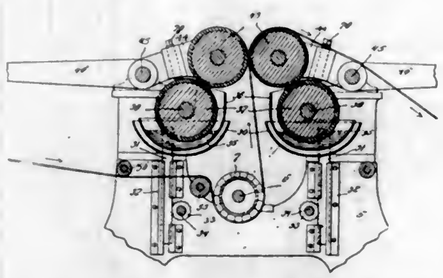
A pipe joint of the class described, including a sleeve having an enlarged end provided with external threads and a beveled edge, a second sleeve having a beveled edge for engaging the first-mentioned beveled edge and provided with an annular exterior groove, ring sections receivable in said groove and formed with ribs and with grooves, a split ring receivable in the grooves of the ring sections to hold them assembled in the groove of the second sleeve and to form a packing gland, and a nut internally threaded at one end and at its other end provided with an internally extending annular flange to engage the rib when the threads thereof are engaged with the threads of the enlarged end of the first sleeve, said flange also engaging the packing split ring.

1,675,809. SANITARY MEAT GRINDER. EUGENE W. KNOWLTON, Buffalo, N. Y. Filed Feb. 18, 1927. Serial No. 169,202. 1 Claim. (Cl. 146—189.)



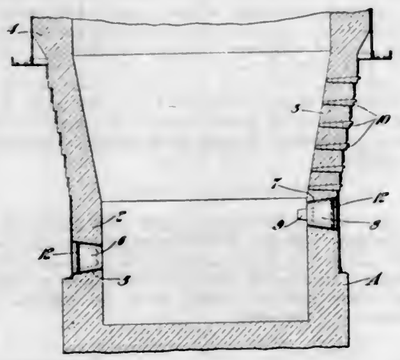
In a substance grinder, a casing having a perforated plate at one end, a feed-screw in the casing, an upright hopper mounted on the casing and having a horizontally-extending discharge-spout leading into the rear portion of the casing, a vertically-swinging pressure-paddle and hand guard arranged in the hopper and pivoted to the rear wall thereof at its junction with the spout, the paddle in its raised position lying against the rear wall of the hopper and in its lowered position extending across the mouth of the spout.

1,675,810. PADDING AND SIZING MACHINE FOR SILK OR COTTON FABRIC. JOHN LATERRA, Paterson, N. J. Filed Mar. 2, 1927. Serial No. 172,064. 5 Claims. (Cl. 8—19.)



1. A machine of the class described comprising a frame, a pair of basins mounted in the frame, a pair of rollers journaled in the frame to dip into a solution carried by the basins, a second pair of rollers, bracket arms in which the second pair of rollers are journaled, said bracket arms being pivotally mounted on the frame so that the second rollers rest on the first rollers, means for driving the first rollers so that solution will be imparted to the second rollers and said second rollers will rotate in order that fabric may be trained between the second rollers and the solution applied thereto, and means for swinging the bracket arms for raising the second rollers from the first rollers.

1,675,811. TUYÈRE COOLER. JAMES E. LOSH, Wilkinsburg, Pa. Filed Jan. 21, 1925. Serial No. 3,873. 2 Claims. (Cl. 266—41.)



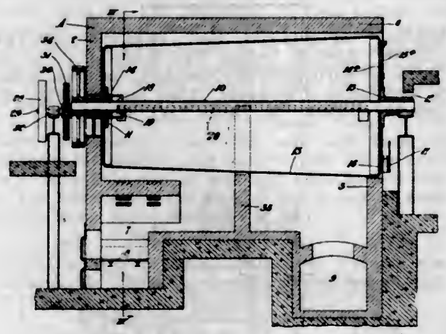
1. The combination with a blast furnace wall having at least one inwardly tapering cooler opening therein, of a tapered cooler adapted to be inserted in said opening, and an asbestos packing ring mounted on said cooler and adapted to be automatically moved longitudinally of said cooler as said cooler is driven home in said opening, thereby compressing said ring and forming a sealed joint between said cooler and furnace wall.

1,675,812. STORAGE-BATTERY TOOL. LEE G. LOYD, Ardmore, Okla. Filed Mar. 15, 1927. Serial No. 175,615. 5 Claims. (Cl. 16—114.)



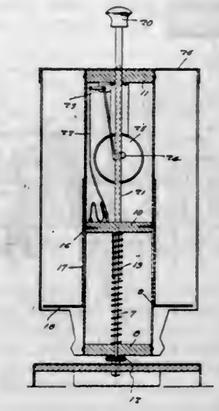
1. In a storage battery tool, a plug having a threaded portion and adapted to replace the usual vent plug of a storage battery cell, a handle therefor and means operated by the application of strain to the handle for expanding the threaded portion of the plug.

1,675,813. GREASE-MELTING FURNACE. WILLIAM C. LOYD and ARTHUR R. MCARTHUR, Gary, Ind., assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Mar. 26, 1926. Serial No. 97,672. 2 Claims. (Cl. 87—13.)



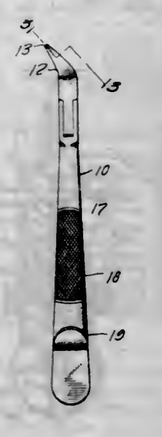
1. A grease melting furnace comprising an enclosing structure, a hollow shaft extending through said structure, a closed frusto-conical grease pot secured on said shaft and rotatable therewith, said pot having a gradually decreasing diameter toward one end, said enclosing structure being provided with an opening in one end to expose the larger circular end of said pot, an inlet opening in said exposed larger circular end of said pot, a closure for said inlet opening, a valved outlet in said exposed larger end of said pot at a point therein substantially diametrically opposite from said inlet opening and near the periphery thereof through which melted grease may be withdrawn from said pot, a pair of diametrically opposite baffle plates secured to the inside walls of and extending longitudinally of said pot for mixing and stirring the grease in said pot during the rotation thereof, and means for rotating said shaft and said pot.

1,675,814. CIGARETTE-PACKAGE DISPENSER. LUCIAN B. MARBURY, Metropolis, Ill. Filed June 2, 1927. Serial No. 196,015. 4 Claims. (Cl. 312—42.)



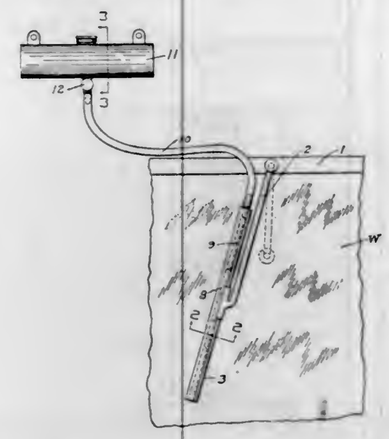
1. In a device of the class described, a rotatably mounted vertically extending casing, a plurality of package compartments arranged about the side thereof, said compartments being open at their lower ends, a package carrier movably mounted within each of said compartments and means arranged within the casing operatively connected with the carrier whereby to move the same outwardly from the lower end thereof.

1,675,815. DENTAL FORCEPS. JOHN E. MILLER, Huntington, W. Va. Filed Mar. 26, 1927. Serial No. 178,752. 2 Claims. (Cl. 32—34.)



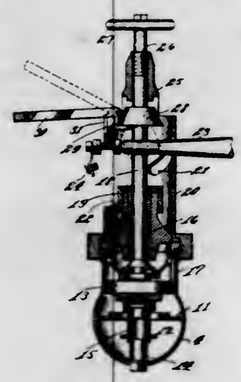
1. A forceps comprising plier connected elements each having at one end an arcuately bowed jaw bluntly tapering to a sharp point, said jaws being oppositely curved and being disposed at an angle of 45° to the general plane of the forceps, the longitudinal axes of the jaws being straight from end to end and in parallelism, the free ends of said jaws being well spaced from one another when the jaws are at the limit of their closing movement.

1,675,816. WINDSHIELD WIPER. FREDERIC MOKMA, Sand Creek, Mich. Filed Feb. 14, 1927. Serial No. 167,921. 2 Claims. (Cl. 15—255.)



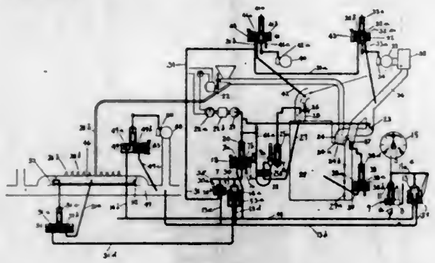
1. A windshield wiper comprising an inverted U-shaped holder of elongate form having one side wider than the other, an operating arm fixed to said holder intermediate the ends thereof, a rubber strip between the sides of said holder in abutment with the wider side and having a portion projecting beyond the edge thereof for engagement with a windshield, a folded strip of absorbent material in engagement with the inner side of said rubber strip and held in clamped relation by the other side of said holder, and a tubular perforated stem within said folded strip for feeding liquid to saturate the folded strip.

1,675,817. VALVE MECHANISM. THOMAS H. MOSELEY, Oklahoma City, and CHARLES E. DROEGE, Cushing, Okla. Filed Nov. 29, 1926. Serial No. 151,530. 2 Claims. (Cl. 137—68.)



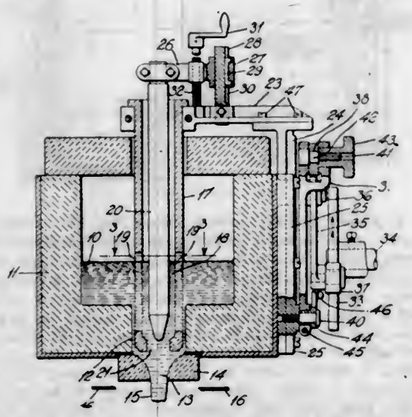
2. In a valve mechanism, the combination of a valve, a valve stem rising from the valve, means tending constantly to close the valve, means for opening the valve, a shoulder on the valve stem, an upwardly tapered surface rising from the shoulder, a housing around the stem, a latch pivotally mounted on the housing and having its inner end bearing against said tapered surface when the valve is in closed position and adapted to engage under the shoulder when the valve is in open position, an arm extending outwardly from the latch and having its end free, and float-controlled means to impinge against and lift the outer free end of said arm whereby to release the latch and permit the valve to close.

1,675,818. APPARATUS FOR CONTROLLING STEAM GENERATION. THOMAS A. PEEBLES, Pittsburgh, Pa., assignor to John M. Hopwood, Dormont, Pa. Filed July 22, 1926. Serial No. 124,248. 26 Claims. (Cl. 236—14.)



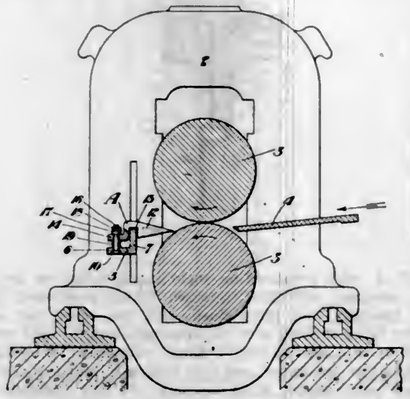
1. A steam generating system, comprising a plurality of steam generators, a common header receiving steam from said generators, and an individual furnace for each generator, fuel feeding mechanisms for each furnace, air supplying mechanisms for each furnace, a separate regulator responsive to variations in steam conditions within said header for controlling the operation of each furnace, a regulator responsive to variations in steam conditions within said header, as reflected by said first mentioned regulator and as modified by pressure conditions within the air delivery passages to the furnace for controlling the operation of said air supply mechanisms, and a regulator responsive to variations in pressure within the furnace for controlling the delivery of a portion of the air from said air supplying mechanisms to said furnace.

1,675,819. APPARATUS FOR FEEDING MOLTEN GLASS. KARL E. PEILER, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Jan. 27, 1923. Serial No. 615,308. 16 Claims. (Cl. 49—55.)



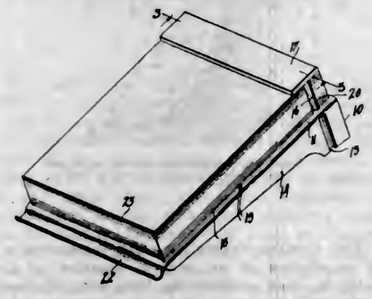
2. In apparatus for segregating mold charges from a body of molten glass, the combination with a glass container provided with a well terminating in a discharge outlet, of a plunger projecting into the well and provided with an internal flow passage communicating with the glass above its discharge end at all positions of the plunger, means for varying the resistance to the flow of glass in said passage, and means for reciprocating the plunger within the well.

1,675,820. ROLLING-MILL GUIDE. ANDRO PISARCIK, Vandergrift, Pa., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed June 6, 1927. Serial No. 196,752. 2 Claims. (Cl. 80—51.)



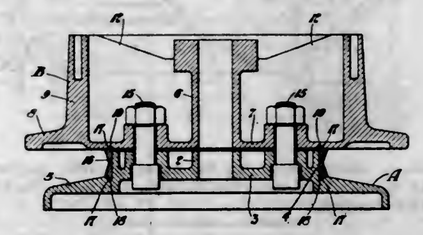
1. The combination with a stand of sheet rolls comprising the usual housings and a pair of horizontal rolls journaled therein, of an angle shaped guide rest-bar extending between and secured to said housings on the delivery side of said rollers, said bar being positioned with one flange extending horizontally and its other flange extending upwardly next to said rolls, at least one sheet guide supported entirely on said bar, said guide comprising a body portion having its upper face inclined upwardly and rearwardly to form a guide for the sheets delivered from said rolls, said body having a transversely extending recess in its bottom face adapted to have a loose fit over the upwardly extending flange of said rest-bar and form a rocking support for said guide, a rearwardly extending flange formed integral with said guide body and overlying said horizontal flange of said rest-bar, and means co-operating with said flange on said guide for securing said guide to said rest-bar, said means being adjustable to rock said guide on said rest-bar and thereby move its forward end toward or away from the lower one of said pairs of rolls.

1,675,821. PAD HOLDER. GEORGE M. PORTER, New York, N. Y. Filed Jan. 6, 1928. Serial No. 244,809. 6 Claims. (Cl. 129—18.)



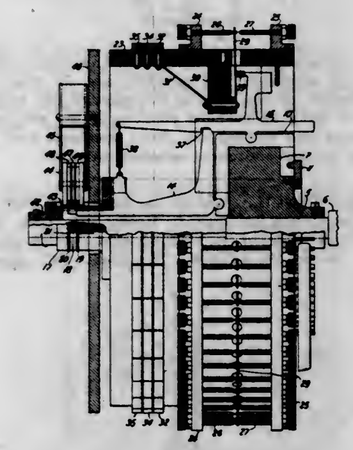
1. A pad holder, comprising a pad supporting base having openings therein, the said pad being provided with open grooves at its sides in alinement with the openings in the base and a top plate having means thereon coacting with the grooves in the pad and the openings in the base to maintain the pad on the base.

1,675,822. WIRE-DRAWING BLOCK. STANLEY PUSHALSKI, Cleveland, Ohio. Filed June 20, 1927. Serial No. 199,958. 1 Claim. (Cl. 205—20.)



A wire drawing block composed of two parts arranged one above the other and rigidly bolted together, each of said parts having a wire receiving drum formed thereon, circular grooves formed in opposite faces of said parts, said lower wire receiving drum being provided with a continuous one-piece removable metallic wearing ring, vertically extending flanges on the edge faces of said ring extending into said grooves whereby said ring is fixedly clamped between the parts of said block, and said ring having its wire receiving face constantly tapered inwardly from each edge toward its center.

1,675,823. TELEGRAPH TRANSMITTER. LOUIS M. POTTS, Tenafly, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 1, 1924. Serial No. 753,025. 20 Claims. (Cl. 178—17.)

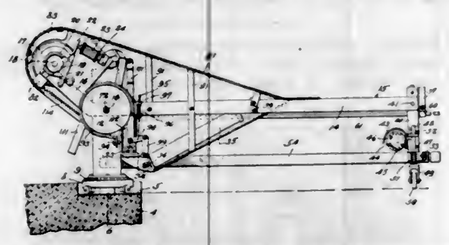


1. A high speed tape controlled transmitter comprising a plurality of contact elements for controlling the transmission of the signals, a member individual to each of said elements operated upon their registration with perforations in the continuously moving tape, and means for rotating said contact elements and said members at a speed not greatly different from that of the tape at the time of registry with a perforation.

1,675,824. GATE MECHANISM. JOHN B. RODGERS, Little Rock, Ark. Filed Nov. 26, 1926. Serial No. 150,639. 9 Claims. (Cl. 39—7.)

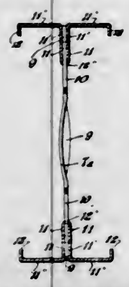
1. In a device of the class described, a gate mounted for vertical swinging movement, means for swinging the

gate vertically, said means including a motor on the gate, a brake restraining the vertical movement of the



gate, a switch controlling the brake, a traffic platform, and an operative connection between the traffic platform and the switch.

1,675,825. TRUSSED BEAM. JULIUS H. SCHLAFLY, Canton, Ohio, assignor, by mesne assignments, to The Berger Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed Aug. 17, 1925. Serial No. 50,750. 2 Claims. (Cl. 189—37.)



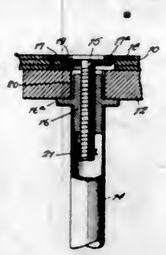
1. A trussed beam including a transversely slit longitudinally expanded web member, and an angle strip chord member on the sides of the edges of the web member, there being unexpanded portions of the web member for spacing and staying the chord members, and means securing the web and chord members together.

1,675,826. PENCIL. WALTER A. SHEAFFER, Fort Madison, Iowa, and LUCIFER J. MOST, New York, N. Y.; said Most assignor to said Sheaffer. Filed Nov. 12, 1920. Serial No. 423,518. 26 Claims. (Cl. 120—18.)



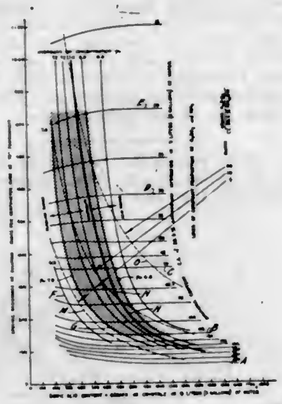
1. A pencil comprising a casing having a lead opening at one end, a rod slidably mounted in the casing in alinement with said lead opening, a cup-shaped lead clamp slidably mounted on the rod, and an elongated sharp edge on the rod within the cup adapted to co-operate with the latter to hold a lead against turning.

1,675,827. TAKE-DOWN TABLE. ARTHUR T. SHRADER, New Albany, Ind. Filed June 30, 1925. Serial No. 40,550. 13 Claims. (Cl. 45—116.)



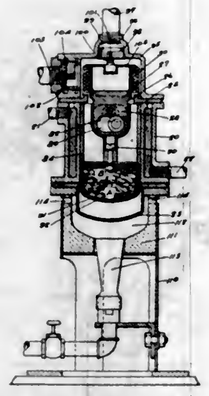
13. A table construction including a table top having leg openings, apertured recessed plates positioned over the openings and lying flush with the table top, said plates being secured over the openings, legs for said table, each of said legs having a flange extending thereabout adjacent to its upper end and having a reduced portion above said flange fitted in one of said openings, a threaded member extending into the reduced portion of said leg and engaging the plate associated therewith whereby said threaded member is adapted to move the leg towards the table top to set up a binding action between the flange and under surface of the table top upon rotative action of the leg.

1,675,828. ELECTROLYTE. HUMPHREYS O. SIEGMUND, West Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 29, 1924. Serial No. 758,574. 11 Claims. (Cl. 175—315.)



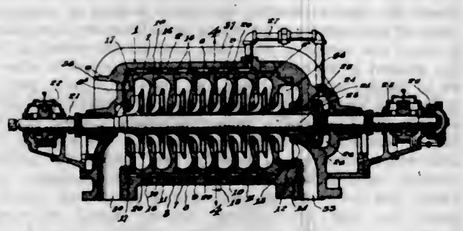
1. A film forming electrolyte which comprises a mixture of a solution of an acid, a solution of a base, and water in such proportions that said mixture possesses a specific resistance value between 150 and 800 ohms per cubic centimeter and a hydrogen ion concentration value between 6.8 and 7.8.

1,675,829. HEAT ENGINE. HARRY F. SMITH, Dayton, Ohio, assignor to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 2, 1923. Serial No. 629,353. 18 Claims. (Cl. 103—47.)



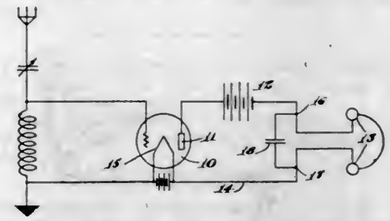
1. An engine of the character described, comprising, in combination, a cylinder; a piston therein; a hollow, perforated, displacement member containing a filamentous material, such as spun glass or the like, within said cylinder, the construction being such that the surface of the displacement member exposed to the fluid within the cylinder is increased, to cause said displacement member to function as a regenerator.

1,675,830. HIGH-PRESSURE CENTRIFUGAL PUMP. MAX SPILLMANN, Richfield, and OSCAR H. DORER, East Orange, N. J., assignors to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Apr. 7, 1926. Serial No. 100,205. 15 Claims. (Cl. 103—108.)



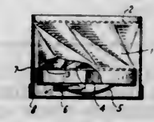
1. In a centrifugal pump, an outer casing and series of diffusion rings within the outer casing disposed in engagement one with the one next thereto and constructed and providing exposed surfaces whereby the stage pressure in the pump causing thrust pressure on the diffusion rings will maintain the rings in tight engagement with each other, and means engaging the last diffusion ring in the series and engaging said outer casing for joining, in effect, said rings and outer casing in a unit, said outer casing and diffusion rings having a chamber between their facing surfaces, said chamber having communication with the interior of the diffusion rings at a predetermined stage to receive fluid under pressure from within the rings and hydraulic end thrust balancing means having communication with said chamber.

1,675,831. TONE-CONTROL MEANS. ROBERT C. SPRAGUE, Quincy, Mass. Filed May 29, 1925. Serial No. 33,724. 2 Claims. (Cl. 250—20.)



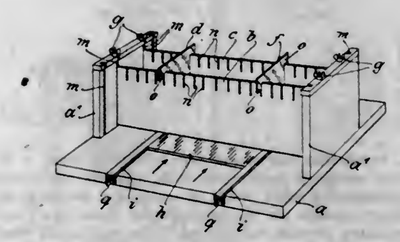
1. An improved tone control for radio receiving circuits, comprising an output circuit, means for delivering audio frequency current thereto, telephone receiving instruments in series in said circuit, and a variable condenser of from 0.01 to 0.05 of a microfarad capacity in shunt to said receiving instruments.

1,675,832. VOICE-PRODUCING APPARATUS FOR DOLLS AND OTHER TOY FIGURES. ERICH FERDINAND STEINER, Sonneberg, Germany, assignor to Karl Ohlbaum & Son Inc., New York, N. Y., a Corporation of New York. Filed Apr. 14, 1927, Serial No. 183,870, and in Germany Dec. 3, 1926. 8 Claims. (Cl. 46—46.)



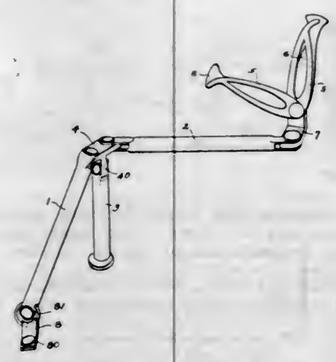
1. In a voice producing apparatus of the character described, an air bellows, a rim ring of angle cross-section secured to fit into one end of the bellows, and a pressure weight fitted into the ring for inflating and deflating the bellows.

1,675,833. APPARATUS FOR THE MANUFACTURE OF ARTIFICIAL-MARBLE SLABS. AUGUST STRITTMATTER, Freiburg, Baden, Germany. Filed Feb. 18, 1927, Serial No. 169,283, and in Germany Feb. 16, 1926. 6 Claims. (Cl. 25—42.)



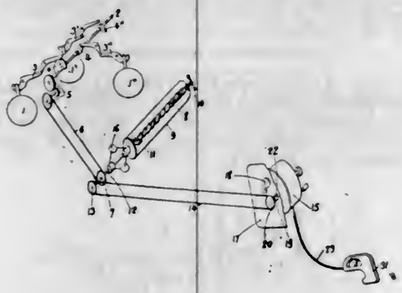
1. In apparatus for manufacturing artificial marble slabs, a receptacle for the color-mass having two opposing vertically adjustable walls, means for spacing said walls at variable distances apart, and means for holding the said walls in elevated position, in combination with plates slidable below the elevated walls, across the receptacle, and in succession constituting the bottom of the latter, the bottom edge of the rear wall constituting a striker for the mass conveyed from the receptacle by each plate.

1,675,834. MUSIC HOLDER. ALBERT H. YOUNG, Victoria, British Columbia, Canada. Filed Jan. 19, 1927. Serial No. 161,969. 5 Claims. (Cl. 45—59.)



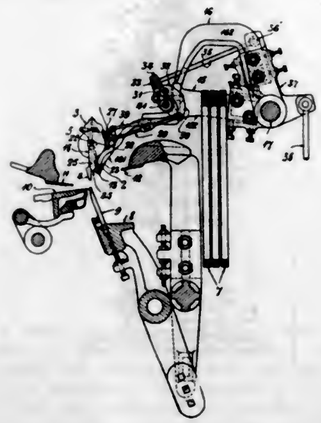
1. A music holder comprising a pivot base, two arms pivoted by one end to said pivot base to swing freely in substantially the same plane, a music holding means carried by the outer end of one of said arms, and means for holding engagement of said pivot base in the crook of the user's arm.

1,675,835. REGULATING APPARATUS FOR OPERATING FROM A DISTANCE DEVICES FOR RELEASING PROJECTILES FROM AIRCRAFT. ROBERT ALKAN and GEORGES LESOURD, Paris, France. Filed July 18, 1927. Serial No. 206,759. 7 Claims. (Cl. 244—1.)



1. A regulating apparatus for operating from a distance for releasing projectiles from aircraft, comprising in combination a main shaft, a motor for rotating said main shaft, means for connecting said main shaft with said releasing devices, an abutment on said main shaft, three pawls adapted to cooperate with said abutment, means for operating one of said pawls directly from the driver's seat, an arm on the second pawl, a secondary shaft above said main shaft, a cam on said secondary shaft co-operating with said arm of said second pawl, means for regulating the position of said cam according to the number of successive releasings to be effected, a driving mechanism independent of the main motor, and adjustable means for operating from said separate driving mechanism said third pawl which regulates the interval between two successive releasings.

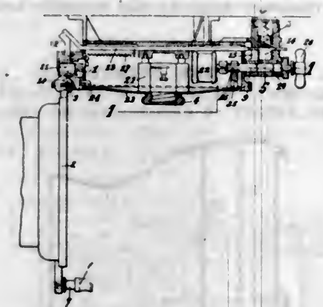
1,675,836. LOOM FOR WEAVING TUFTED PILE FABRICS AND APPARATUS FOR USE THEREWITH. FREDERICK WILLIAM AUSTIN, Oldham, England. Filed May 15, 1925, Serial No. 30,643, and in Great Britain May 17, 1924. 6 Claims. (Cl. 139—9.)



1. In a mechanism for taking tube frames carrying spools of tuft yarn carrying chains and presenting the yarn tubes of such tube frames between warp threads in a tufted pile fabric loom and after severance of the tuft yarn between the warp threads from that remaining on the spools, restoring the tube frames to the carrying chains, an intermediate holder intermediate between the sides of the loom which presenting a notch for receiving hook like projections extending in the general plane of end plates of tube frames is adapted to receive simultaneously two end plates of tube frames placed end to end in line, pressing means mounted to be oscillated on said intermediate holder for acting upon and releasing chain engaging devices on tube frame end plates in the notch of said holder and holding tube frame end plates therein, two other holders at opposite sides of the loom each of which other holders presenting a notch for receiving hook like projections extending in the general plane of end plates of tube frames is adapted to receive one tube frame end plate at a time, pressing means respectively mounted to be oscillated on said other holders for acting upon and releasing chain engaging devices on tube frame end plates in the notches of said other holders and holding tube frame end plates therein, intermediate carrying means intermediate between the sides of the loom providing pivotal attachment for said intermediate holder, lateral carrying means at the sides of the loom providing pivotal attachment for said other holders, means for moving said intermediate and lateral carrying means down from and up to a position to present said holders in position for receiving and leaving end plates of tube frames suspended on chains to and from position for presenting the yarn tubes of tube frames between warp threads, means for oscillating said holders on said carrying means and means for oscillating said pressing means on said holders.

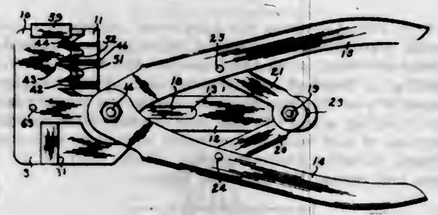
1,675,837. EXPLOSIONPROOF FITTING FOR ELECTRIC GLOWLAMPS. JOHANNES BECKMANN, Altona-Ottensen, Germany. Filed Aug. 15, 1927. Serial No. 213,055. 4 Claims. (Cl. 240—17.5.)

1. In an explosionproof fitting for electric glowlamps, the combination with a stationary fitting member, a movable fitting member hinged to the former, a glowlamp switch axle in said stationary fitting member, and a slotted locking bolt arranged in the stationary fitting



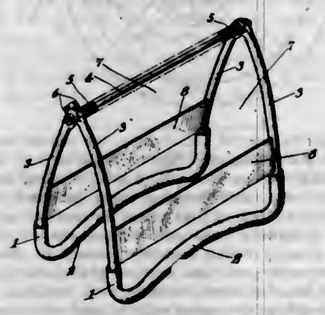
member and adapted with open fitting to lock the switch axle against turning, of means for securing said bolt in its locking position with open hinged fitting member.

1,675,838. HAND TOOL. WILLIAM A. BERNARD, New Haven, Conn., assignor to The William Schollhorn Company, New Haven, Conn. Filed Apr. 23, 1924. Serial No. 708,556. 22 Claims. (Cl. 81—9.5.)



5. In a hand tool, a pair of parallel operating cutting jaws, means to move said jaws toward each other, said jaws being adapted to cut through the insulation about the wire of an insulation covered conductor, and means to subsequently strip the severed portion of said covering from the wire while said cutting jaws are being moved toward each other.

1,675,839. WAVE SETTER FOR HAIRDRESSING PURPOSES. JULIUS BLOOM, West Bronx, N. Y. Filed Apr. 3, 1928. Serial No. 266,909. 4 Claims. (Cl. 132—31.)

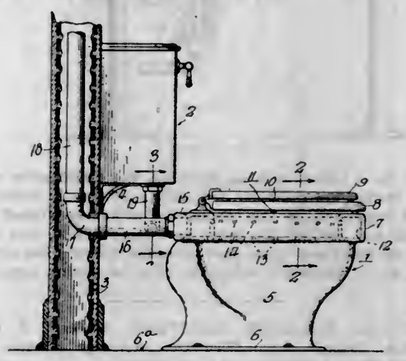


1. A wave setter for hair dressing purposes having a pair of substantially parallel jaws each provided with a relatively long hair engaging base, and means connecting said jaws permitting movement thereof substantially directly toward and away from each other, whereby the jaws may be placed in engagement with a wave of hair and moved toward each other to draw together the ends of the wave.

1,675,840. SKIN PREPARATION. DELLA BRANDON, Oak Park, Ill. Filed Aug. 14, 1924. Serial No. 731,964. 6 Claims. (Cl. 167—9.)

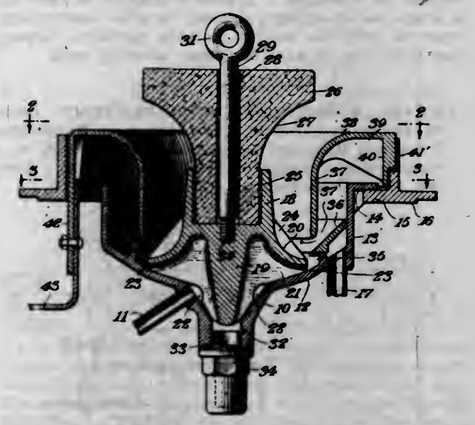
1. A composition adapted to be used externally as a skin treatment consisting of peroxide of hydrogen, yeast and the white of egg.

1,675,841. TOILET CONSTRUCTION. LUTHER E. COHOON, La Grange, Ill. Filed Feb. 12, 1926. Serial No. 87,741. 3 Claims. (Cl. 4—72.)



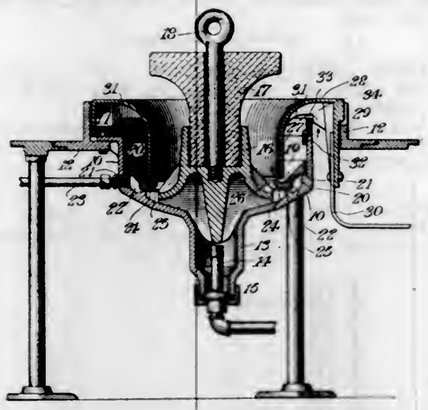
1. A toilet bowl including a bowl body and a hollow rim, having a single chamber therein, said rim having inner and outer side walls and top and bottom walls, there being a set of openings in said bottom wall adjacent the bowl body and a second set of openings in the inner wall of said rim above said first mentioned set of openings, both sets of openings communicating with the single chamber in said rim.

1,675,842. OIL BURNER. GEORGE B. DAHL, Brooklyn, N. Y. Filed Apr. 28, 1927. Serial No. 187,159. 6 Claims. (Cl. 158—67.)



1. An oil burner having a centrally disposed tapered oil well therein, a vaporizer coaxially seated in the well and having a downwardly and outwardly extending oil deflector, and a spreader seated coaxially on the vaporizer, and having an outwardly and upwardly curved wall.

1,675,843. OIL BURNER. GEORGE B. DAHL, Brooklyn, N. Y. Filed July 19, 1927. Serial No. 206,816. 5 Claims. (Cl. 158—67.)



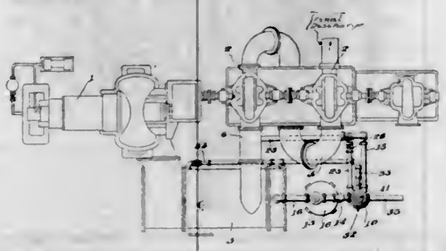
1. In a burner such as described, the combination with the casing, the vaporizer and mixing drum, of a deflecting ring supported on the casing and extending around the drum and beneath the lower part thereof, said ring having its lower and inner part upturned whereby the inflowing air is discharged upwardly into the mixing drum.

1,675,844. WEATHER STRIPPING. WILLIAM J. DENNIS, Chicago, Ill. Filed Oct. 9, 1924. Serial No. 742,588. 4 Claims. (Cl. 20—69.)



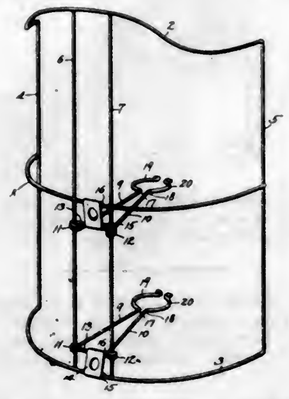
1. A weather stripping of the character described comprising a body portion of yieldable material and a flexible covering enclosing the body, the longitudinal edges of the covering being brought together in contact extended to form an attaching flange, one edge being folded to enclose the other and to provide a plurality of plies, and a single row of stitching securing the plies together adjacent the body, the faces of the plies contacting throughout their area to make the flange relatively rigid.

1,675,845. WATERWORKS AUXILIARY PUMP. OSCAR H. DORER, East Orange, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Nov. 23, 1926. Serial No. 150,220. 15 Claims. (Cl. 103—6.)



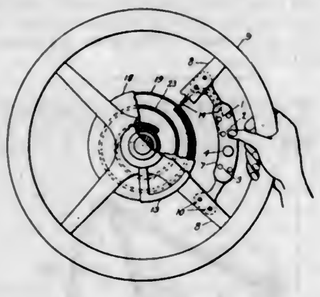
1. The combination with a main pumping unit and a condenser, of a hydraulic vacuum pump for drawing air from the condenser and deriving its operating fluid from the discharge of said main pumping unit, a hydraulic turbine interposed in the connection between the hydraulic pump and main pumping unit and driven by the operating fluid, and a condensate pump for removing condensate from said condenser driven by said hydraulic turbine.

1,675,846. SCREEN FOR TELEPHONES. CHARLES FISCHER, New York, N. Y. Filed Sept. 17, 1924. Serial No. 738,320. 6 Claims. (Cl. 45—105.)



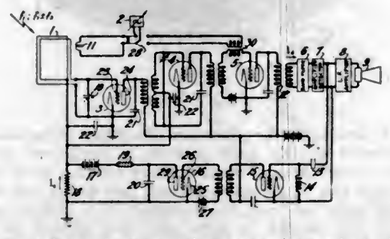
2. A shiftable screen for telephones comprising a wire frame wall having a vertical wire member extending across the front of the frame, said wire frame wall extending in front of and partially around the telephone stand, a wire clamping member and means for attaching the clamping member to said vertical wire, the clamping portions of said member comprising wire arms with loop-shaped normally separated ends which yield so as to open and engage the telephone stand.

1,675,847. ELECTRIC SWITCH ATTACHMENT. CARL G. FISHER, Port Washington, N. Y. Filed Sept. 30, 1924. Serial No. 740,777. 1 Claim. (Cl. 173—324.)



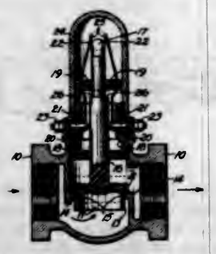
In an electric switch attachment, the combination with a cylindrical housing, of a flexible cable spirally coiled in said housing, the outer wall of said housing extending above said cable, said housing being provided with an aperture for a steering post of an automobile, a bushing extending downward from said housing around said aperture and slidably fitting said post, means to attach said bushing to said post, one end of said cable extending from said housing down through said bushing, a cover for said housing, the outer wall of said cover extending outside of said outer wall of said housing, said cover being provided with an aperture for the hub of a steering wheel, a bushing extending from said cover around said aperture and adapted to fit said hub, means to attach said bushing to said hub, said cover being adapted to rotate with said wheel without touching said housing, the other end of said cable extending through said cover to said hub and to said wheel to electrical switches on said wheel, and means to render said cable resilient inside of said housing.

1,675,848. TRANSMISSION REGULATION. HARALD T. FRIIS, Red Bank, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 29, 1924. Serial No. 752,891. 6 Claims. (Cl. 250—2.)



5. In a heterodyne receiving system, a method of controlling the volume of the detected signals which comprises simultaneously amplifying the incoming wave and the heterodyne wave, and controlling the degree of amplification in an inverse manner as the amplitude of the received wave varies.

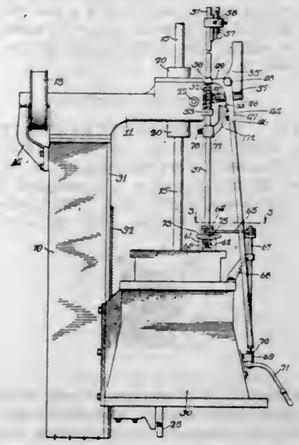
1,675,849. ALARM AND CONTROL DEVICE. MILES E. FULTZ, Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 8, 1924. Serial No. 754,640. 3 Claims. (Cl. 200—81.)



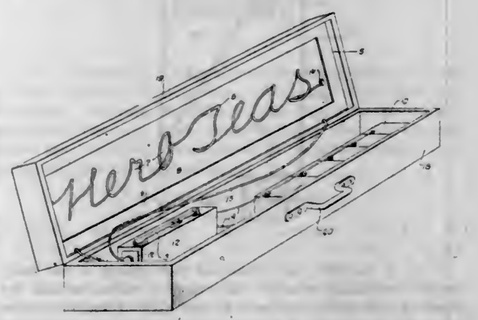
3. In a flow alarm device comprising a valve casing, a movable valve member, a conductive head supported by said movable valve member, a plurality of contact points adapted to be bridged by said conductive means, and an air-tight holow dome for enclosing said contact points, a free passage from said valve casing to said hollow dome, the fluid passing through said device being prevented from reaching and engaging said contact members by the air in said air-tight hollow dome.

1,675,850. REVERSING MECHANISM FOR DRILLING MACHINES. ROBERT M. GALLOWAY and RAYMOND E. STERLING, Richmond Ind., assignors to The National Automatic Tool Company, Richmond, Ind., a Corporation of Indiana. Filed Aug. 1, 1923. Serial No. 655,009. 3 Claims. (Cl. 10—137.)

1. A drilling and tapping machine combining a translatable tool-head; a spindle driving shaft carried by said tool-head, a forward and a reverse drive for said shaft; a clutch embodied in each of said drives; a clutch actuator common to both of said clutches; yielding means acting upon said clutch actuator normally to maintain the reverse drive clutch effective; a member moving with said tool-head and acting upon said clutch actuator in opposition to the last named means to cause said clutch actuator to disengage the reverse drive clutch and to engage the forward drive clutch; a latch mechansim, including a spring-pressed bell-crank lever providing a latch plate adapted to engage a shoulder on the clutch actuator, to hold the clutch actuator in position to maintain the forward drive effective; a trip dog movable with the tool-head during its advance and adapted to engage the bell-crank lever and swing it in opposition to the spring pressure thereon to release said latch mechanism, thereby to permit said yielding means to move the clutch actuator to render effective the reverse drive clutch; and a handle attached to said bell-crank to permit manual release of said latch mechanism to effect emergency reversal of the spindle rotating shaft.



1,675,851. ELECTRIC SIGN. STANLEY GATKOWSKI, Chicago, Ill. Filed July 23, 1927. Serial No. 207,970. 3 Claims. (Cl. 40—130.)



1. A portable electric sign comprising, in combination, a supporting frame; a transparent tube having an electric conducting medium therein; said tube being formed into characters; means for passing an electric current through said tube for illuminating said characters, comprising a source of direct current and means for converting said current into a current of high frequency for causing a flickering illumination of said characters; a carrying case for said sign; said sign being displayed on the inner side of said case lid.

1,675,852. RECORD STOP. EDMUND S. GEER, New York, N. Y. Filed May 29, 1924. Serial No. 716,546. 2 Claims. (Cl. 274—42.)



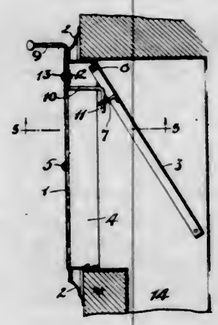
1. A device of the character described, comprising a phonograph record adapted to be used with a tone arm carrying a needle, said record having a slot therein associated with the end of the sound groove of sufficient depth and width to engage the parallel sides of the needle to lock the record in place.

1,675,853. WAVE-ENERGY-TRANSLATING DIAPHRAGM AND METHOD OF MOUNTING SAME. HENRY C. HARRISON, Port Washington, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 30, 1924. Serial No. 729,002. 8 Claims. (Cl. 181—31.)



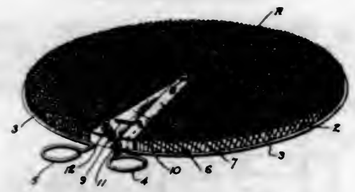
1. In combination, a diaphragm, a ring of soft metal, clamping means between which said diaphragm and ring are clamped, said clamping means having corrugations therein, into which portions of the diaphragm are progressively forced by said soft metal ring to tension the diaphragm.

1,675,854. REGISTER AND VENTILATOR. STANLEY HART, New Britain, Conn., assignor to The Hart & Cooley Manufacturing Company, New Britain, Conn., a Corporation of Connecticut. Filed Feb. 10, 1926. Serial No. 87,233. 4 Claims. (Cl. 98—106.)



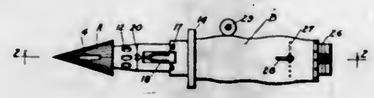
1. In a register, a perforated face plate, a set back border extending around the same, a valve, means for pivoting said valve adjacent to the back of the face plate to swing on either of a plurality of axes, means for operating said valve comprising an axle pivotally mounted on the back of the face plate and projecting through a side of the set back border adjacent to one corner thereof, a handle on the outer end of said valve arranged in one operative position to stand substantially parallel with the border and back of the plane of the outer face of the perforated face plate and wholly within the field of said border, and means of connection between the other end of the axle and said valve, whereby motion of the axle will be transmitted to the valve to operate on either of the pivotal axes of the latter.

1,675,855. COMBINATION STRAINER AND CONTAINER. ELSA S. KOGLER and ALBERT P. KOGLER, San Francisco, Calif. Filed Oct. 12, 1927. Serial No. 225,728. 4 Claims. (Cl. 210—155.)



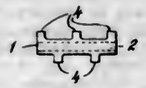
1. A device of the character described comprising a foraminated flexible body portion, a peripheral downwardly turned flange formed thereon adapted to fit over the upper end of a cooking utensil, said flange and body portion being cut from the periphery to a central point in the body portion, a split wire ring secured to the flange, the split portions of the ring terminating at the cut portion of the flange and the split portions of the ring terminating in a pair of handle members, and a latch member carried by one handle and adapted to interlock with the other handle.

1,675,856. SLAUGHTERING DEVICE. EWALD KREFT, St. Louis, Mo., assignor of one-sixth to Richard Hoeller, one-sixth to Fred L. Werner, one-sixth to Ferdinand Schindler, one-sixth to Frank Amishaensel, and one-sixth to Louis Neudecker, St. Louis, Mo. Filed July 15, 1925. Serial No. 43,691. 9 Claims. (Cl. 17—1.)



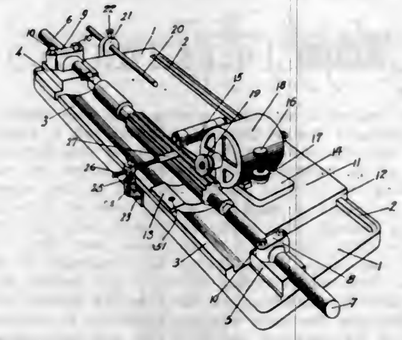
1. An apparatus for slaughtering animals, comprising a vacuum tank, a compressed air tank, a pump arranged intermediate said tanks so as to produce a vacuum in one and compress air into the other, a hollow conduit leading from the compressed air tank and adapted to be connected to a slaughtering tool for delivering air thereto and operating the latter, and a second conduit leading from the vacuum tank and adapted to be connected to the tool for withdrawing liquid therethrough.

1,675,857. WIRE CONNECTER. BENJAMIN LIEBOWITZ, Pennside, Pa. Filed Nov. 11, 1924, Serial No. 749,194. Renewed Nov. 23, 1927. 3 Claims. (Cl. 173—263.)



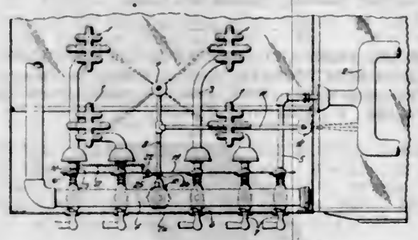
1. A wire connecter comprising a ductile metal block formed with an internal longitudinally extending cavity for receiving a wire, and having integral transversely extending external projections arranged alternately on two of its opposite faces.

1,675,858. REAMER GRINDER. FREDERICK A. LITTER, Columbus, Ohio. Filed Oct. 27, 1926. Serial No. 144,602. 2 Claims. (Cl. 51—48)



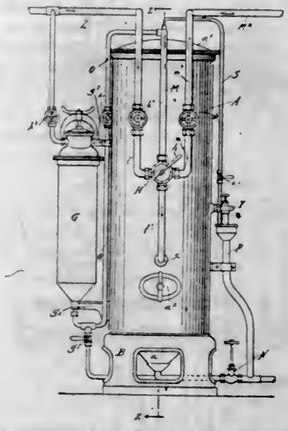
1. In reamer grinding apparatus having a base and centering pins for holding the reamer on said base, a carriage slidable longitudinally of said base and in parallelism with a reamer carried by such centering pins, a motor support mounted upon said carriage, a motor mounted upon said support and having its shaft disposed substantially at right angles to a reamer carried by the centering pins and a grinding wheel directly connected to the shaft of said motor to rotate in a longitudinal vertical radial plane of the reamer and grinding in substantial parallelism with the longitudinal axis of the reamer, said motor support having one end pivoted to the carriage to adjust said wheel in said plane, and means for fixing such adjustment.

1,675,859. IGNITION DEVICE FOR GAS BURNERS. CARL E. METHUDY, St. Louis, Mo., assignor, by mesne assignments, to Alvin D. Goldman, St. Louis, Mo. Filed July 23, 1927. Serial No. 207,882. 14 Claims. (Cl. 158—115.)



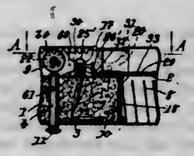
14. An ignition device for gas burners comprising a gas manifold, valves controlling passage of gas from said manifold to said burners, respectively, a flashing pilot light for igniting gas issuing from said burners, a valve controlling passage of gas from said manifold to said pilot light, a longitudinally movable actuator, means in connection with said first-named valves for supporting and guiding said actuator in its longitudinal movements, means under control of said actuator leaving said pilot light valve in position to permit a relatively small amount of gas to pass to said pilot light and operating said pilot light valve to admit an additional amount of gas to said pilot light to cause said pilot light to flash to ignite gas issuing from said burners, means operated by said first-named valves for moving said actuator to cause said pilot light valve to permit gas to pass to said pilot light to flash as aforesaid, and means for restoring said actuator to its initial starting position.

1,675,860. APPARATUS FOR SOFTENING WATER. AUGUST NEUMANN, Reppen, Germany, assignor, by mesne assignments, to The Permutit Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 20, 1923. Serial No. 681,687. 6 Claims. (Cl. 210—24.)



1. A water softening apparatus comprising a casing, a separate loose lying mechanical filter bed of comminuted buoyant material therein, a loose lying zeolite filter bed above said mechanical filter, said zeolite bed resting on a perforated support and means for passing the water to be treated upwardly through said beds.

1,675,861. POCKET LIGHTER. LOUIS AUGUSTE NEVIÈRE, Tours, France, assignor to American Lighter Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 21, 1925, Serial No. 76,876, and in Belgium Dec. 22, 1924. 4 Claims. (Cl. 67—7.1.)

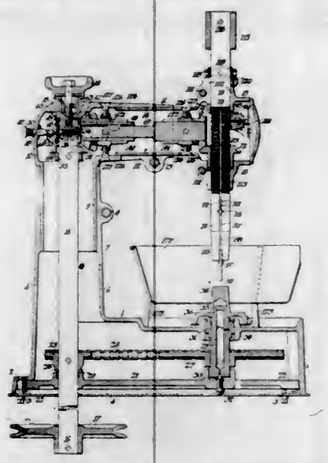


1. An automatic lighter comprising a cartridge having a fuel container and a wick associated with said fuel container, the said cartridge having the exterior thereof provided with air inlets located below the top of said wick and auxiliary concave walls located between the wick and the said cartridge.

1,675,862. SURFACING MECHANISM. ARTHUR E. PAIGE, Philadelphia, Pa. Filed July 16, 1921. Serial No. 485,314. 18 Claims. (Cl. 51—124.)

5. In surfacing mechanism, the combination with a hollow articulated frame, including relatively movable members; of two spindles mounted to rotate in said frame and adapted to carry surfacing tools; the members of said frame being arranged for relative adjustment to present said spindle in different relative angular positions; means carried by said frame arranged to clamp the members thereof in adjusted position; and driving mechanism inclosed by said frame, arranged to connect said spindles in cooperative relation; means arranged to variably spring press one of said spindles toward the work; and adjustable stop mechanism arranged to variably limit the movement of said spring pressed spindle, toward the work, including a collar adjustable longi-

tudinally on said spindle; a screw sleeve encircling said spindle, a spline extending from said frame in engagement with said sleeve, preventing rotation of the latter,



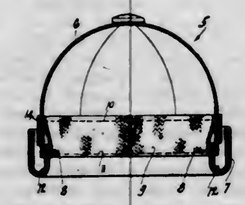
and a nut engaging said sleeve and bearing upon said frame, rotatable to adjust said sleeve toward and away from said frame.

1,675,863. UNLOADING DEVICE FOR SLITTER AND REWINDING MACHINES. PHILIP D. PARSONS, Philadelphia, Pa., assignor to Scott Paper Company, a Corporation of Pennsylvania. Filed Sept. 4, 1924. Serial No. 735,771. 13 Claims. (Cl. 242—55.)



1. A winding and unloading means for a slitting machine, comprising a main frame, a rotatable winding mandrel, a hinged frame in which the mandrel is journaled, and by which it is hingedly connected to the main frame, said hinge having an upright axis positioned to the rear of the axis of the mandrel and its bearing whereby one end of the mandrel may be freed and swung from winding position to an unloading position while the mandrel is supported by the hinged frame, and operating means cooperating with the free end of the mandrel for rotating it when swung into winding position.

1,675,864. CLOTH HAT. LOUIS I. PEKOWSKY, New York, N. Y. Filed Nov. 3, 1927. Serial No. 230,725. 1 Claim. (Cl. 2—197.)



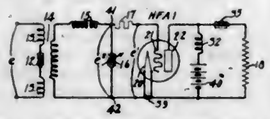
In a cloth hat having an expansible zone at the juncture of the crown and brim, a knitted sweat band secured to the hat at the said zone and an outer hat band secured to the crown and having a fullness therein to permit expansion of the hat at the said zone.

1,675,865. METHOD OF MAKING WOODEN-SOLE SHOES. ERNESTO PEESTROFF, Porto Alegre, Brazil. Filed Aug. 11, 1924, Serial No. 731,517. Renewed Apr. 28, 1928. 1 Claim. (Cl. 36—33.)



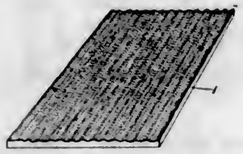
The method of making a wooden soled shoe comprising cutting a flexible piece of material and a wooden board into the outline of the sole of the shoe with the grain of the wood running transversely across the sole, attaching the strip of flexible material to the wooden strip by means of regularly spaced rows of nails extending through the flexible strip part way into the wooden strip, thereafter forming saw cuts from the under side of the wooden strip into proximity to the flexible strip and stopping short of the flexible strip and thereafter attaching an upper to the flexible strip and finishing the shoe, whereby said sole is attached while in its unbroken condition and will subsequently break at the slits into accurately defined transverse strips when in use.

1,675,866. SELECTIVE SIGNALING CIRCUITS. PAUL H. PIERCE, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 13, 1921. Serial No. 484,342. 4 Claims. (Cl. 179—171.)



1. A selective receiving circuit comprising a loop tuned circuit, a thermionic amplifier having an input circuit including a heated filament and an impedance control element associated with said loop tuned circuit at two electrically separated points, and means to increase the selectivity of the loop tuned circuit comprising a high resistance to increase the apparent resistance of the input circuit viewed from said two points.

1,675,867. PRODUCTION OF WROUGHT IRON DIRECT FROM ELECTROLYTIC IRON. ROBERT D. PIKE, San Francisco, Calif. Filed June 30, 1924. Serial No. 723,234. 6 Claims. (Cl. 75—48.)

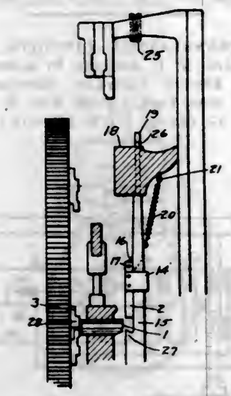


1. As an article of manufacture, wrought iron consisting of substantial laminations of electrolytic iron in cathode sheets, with intermediate laminæ of slag.

1,675,868. AUXILIARY VISE AUTOMATIC. DE WITT C. SCOUGAL, Seattle, Wash. Filed May 23, 1927. Serial No. 193,393. 6 Claims. (Cl. 199—52.)

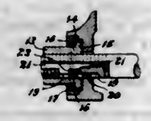
1. In a device of the class described, a split dog, means for resiliently holding the members endwise, said dog being adaptable to replace the vise automatic stop mold disc dog of a casting machine, a clip adaptable to be attached to the mold disc to engage a portion of the said dog, a bar slidable on the vise automatic stop rod, means whereby the said bar will be automatically moved downward to engage another portion of the said dog when the first elevator slide fails to stop at

the correct position, means for resiliently holding the said bar upward and another portion of the said dog adaptable to be engaged by the mold on the said mold



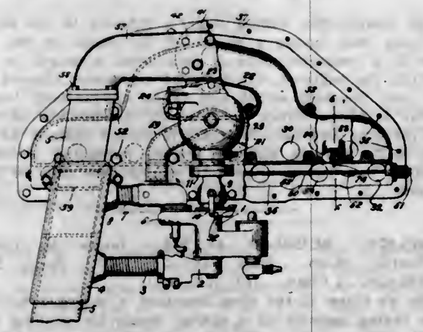
disc so that it will engage the vise automatic stop rod to stop the machine and thereby perform the normal function of the dog.

1,675,869. TIRE-RIM CLAMP. JARVIS E. SMITH and JOSEPH J. HERLBAUER, Jamaica, N. Y. Filed Apr. 8, 1926. Serial No. 100,471. 12 Claims. (Cl. 301—22.)



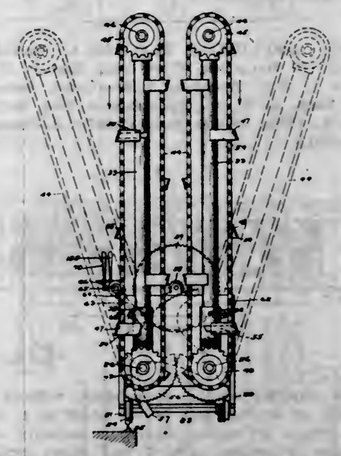
1. A device of the character described including, in combination, a screw member having a slot thereon with axially extending circumferentially displaced parts, a clamp movable from obstructing position to freeing position, a nut engaging said screw member for tightening said clamp in clamping position, and a lug carried by said clamp and engageable in said circumferentially displaced slot parts for positioning the clamp, respectively, in obstructing position or freeing position.

1,675,870. MANIFOLD AND THERMOSTATIC REGULATING DEVICE THEREFOR. WILLIAM E. S. STRONG, New York, N. Y., assignor to William P. Deppé, New York, N. Y. Filed May 18, 1921. Serial No. 470,736. 12 Claims. (Cl. 123—122.)



2. In an internal combustion engine, the combination with an intake manifold, comprising a riser and spreader arms, the ends of said spreader arms merging into a chamber extending transversely of all the intake ports, connecting nipples between said chamber and the respective intake ports, an exhaust manifold surrounding and enclosing said intake manifold and formed with a continuous chamber located below said intake chamber and provided with openings connecting it with the exhaust ports of the engine, said exhaust chamber being provided with an outlet opening leading directly into the exhaust pipe, a member pivotally mounted in said exhaust chamber transversely of the exhaust ports and a thermostat located within said intake chamber and operatively connected with said member for controlling the position thereof to regulate the flow of exhaust gases about the intake manifold in accordance with the temperature of the mixture therein.

1,675,871. ACID-PHOSPHATE HOT-DEN EXCAVATOR. FRANK M. WEVER, Anderson, S. C. Filed Sept. 30, 1926. Serial No. 138,774. 10 Claims. (Cl. 83—6.)



1. A machine for cutting acid phosphate in a den or the like comprising, a carriage, a pair of normally upstanding supports pivotally mounted upon the carriage to be swung outwardly toward the horizontal, endless cutting devices mounted upon the supports, gears connected with the supports and in mesh to cause the supports to swing simultaneously in opposite directions, an operating element connected with one of the supports to turn the same and having a trip pin, driving means to move the operating element, and means automatically actuated by the trip pin to render the driving means inoperative with respect to turning said operating element when the operating element has turned to a selected position.

1,675,872. PERMANENT MAGNET AND METHOD OF MAKING THE SAME. JOHN H. WHITE, Cranford, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed May 8, 1925. Serial No. 28,873. 4 Claims. (Cl. 175—21.)



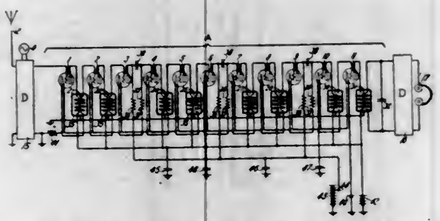
2. The method of making permanent magnets consisting in pouring molten magnet steel into a chilled mold and thereafter magnetizing the casting.

1,675,873. HANDPIECE FOR TOOTH-BORING MACHINES. MARTIN BAUER, Berlin, Germany. Filed Apr. 18, 1927, Serial No. 184,529, and in Germany Sept. 24, 1926. 5 Claims. (Cl. 32—15.)



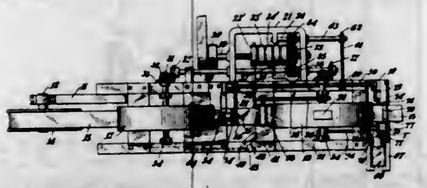
1. A dental hand-piece comprising a body member having a conical outer end portion, a spindle journaled in said body member, and having a conical outer end portion, and a sleeve enclosing the projecting portion of the spindle and conical end portion of the body member and having its bore of conical form at its ends for reception of and engagement with the conical end portions of the body member and spindle, said sleeve having a fastening connection with the body member operative in the fastening and unfastening movements to move the sleeve endwise inward and outward on the body member and spindle.

1,675,874. AMPLIFYING ELECTRICAL VARIATIONS. HAROLD C. BAUMANN, West Long Branch, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 4, 1926. Serial No. 113,607. 3 Claims. (Cl. 179—171.)



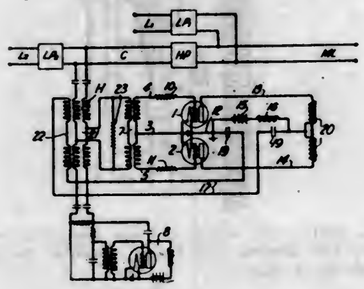
1. An amplifier adapted to produce, without singing, high gain at a frequenmy of the order of at least one million cycles per second having a plurality of amplifier stages in tandem, each of said stages including an electric space discharge device having input and output circuits, said amplifier comprising resistance coupling means coupling two of said devices in tandem, and said amplifier comprising means coupling the input circuit of one of said two devices to another of the devices, said last means and circuit having a natural period corresponding to a frequency of the order of at least one million cycles per second, and said amplifier also comprising means coupling the output path of the other of said two devices to the input circuit of another of the devices, said last mentioned means and circuit having a natural period corresponding to a frequency of the order of at least one million cycles per second.

1,675,875. MACHINE FOR CUTTING OFF AND SKIVING STOCK. THOMAS ARTHUR BEANEY, Poughkeepsie, N. Y., assignor to Beaney Rubber Company Inc., New York, N. Y., a Corporation of New York. Filed Mar. 7, 1925. Serial No. 13,777, and in Canada Feb. 23, 1925. 7 Claims. (Cl. 164—77.)



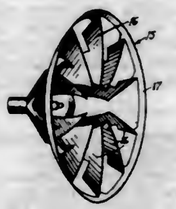
7. In a machine of the class described, means for positioning a strip of stock, a cut-off device comprising a plurality of disc cutters of opposed pitch, means for moving the cut-off device across the stock, and means carried by the moving means for simultaneously rotating the disc cutters.

1,675,876. TRANSLATING CIRCUITS. HAROLD S. BLACK, Newark, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Feb. 3, 1925. Serial No. 6,528. 17 Claims. (Cl. 179—15.)



1. An electric system comprising divided input and output circuits, means for supplying different waves to said input circuits, means in said input circuits for combining said waves to produce combination frequency components of the supplied waves, and means in said output circuits offering a high impedance to the unmodified wave components flowing therein, said means offering low impedance to the combination frequency components flowing in said output circuits.

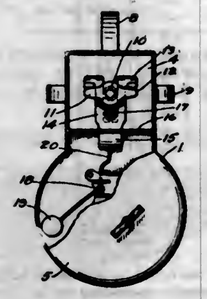
1,675,877. LIGHT. HUGO C. BURDT, Chicago, Ill. Filed May 17, 1926. Serial No. 109,525. 1 Claim. (Cl. 240—48.2.)



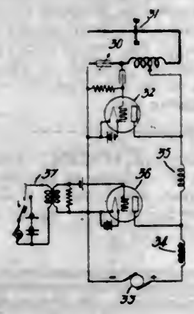
In combination with a light, a reflector in the light, a lamp bulb having a socket at the center of the reflector, a truncated cone of thin metal arranged to lie within the reflector, the apex of said cone adapted to fit over the bulb socket and vanes substantially triangular in shape struck up from an intermediate section of the cone and bent inwardly to extend radially about the bulb, and an annular section remaining at each end of the truncated cone to support the ends of the vanes.

1,675,878. BURGLAR ALARM. JAMES M. CODY, Seattle, Wash. Filed Jan. 24, 1927. Serial No. 163,026. 1 Claim. (Cl. 116—79.)

In an alarm of the class described, a casing, a bell in the casing operable by a spring, means for winding the said spring, a lever slidably and vertically mounted in said casing and positioned to engage said bell clapper to prevent the bell ringing, a horizontal lever passing through a slot in the said vertical lever and adaptable to raise the said vertical lever to release the said bell clapper with either end as either end is raised, said horizontal lever mounted upon a shaft extending through the said casing and adaptable to turn as the said shaft is rotated, and means on the outer end of the said shaft for attaching the said device to a door knob or the like to cause the shaft to rotate with the knob while the casing hangs vertical.



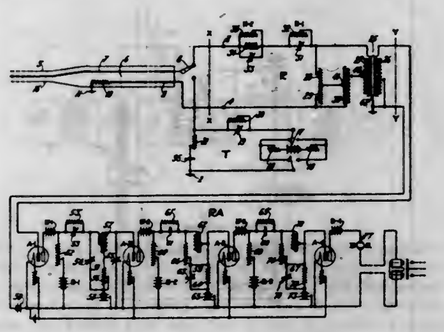
1,675,879. SYSTEM FOR PRODUCING AND TRANSMITTING HIGH-FREQUENCY SOUND ENERGY. IRVING B. CRANDALL, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 21, 1919. Serial No. 339,618. 5 Claims. (Cl. 179—171.)



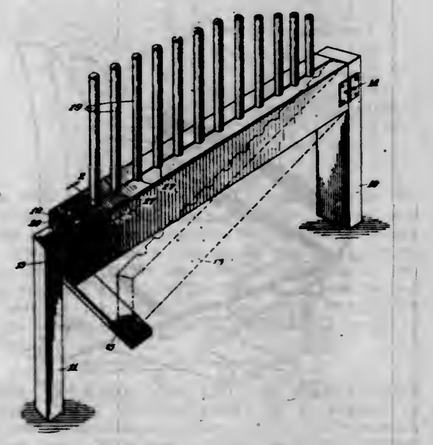
4. An oscillator comprising an electric discharge device having coupled input and output circuits, a condenser sound transmitter associated with said output circuit, means for supplying current in said discharge device, and means for varying said current in accordance with low frequency impulses.

1,675,880. ELECTRIC-CURRENT TRANSMISSION. AUSTEN M. CURTIS, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 27, 1926. Serial No. 97,875. 10 Claims. (Cl. 178—63.)

1. In combination, a circuit comprising a resistance and means for producing potential variations across said resistance, a vacuum tube having input electrodes, and a connection for conductively impressing said variations on said electrodes, said connection comprising a series arm including a condenser and a resistance shunted thereabout and a conductive shunt arm having one of its ends connected to said series arm at a point between said condenser and said electrodes, said shunt arm including resistance.



1,675,881. APPARATUS FOR FORMING ROPE MATS. LAWRENCE A. DENNEY, Chicago, Ill. Filed Dec. 6, 1926. Serial No. 152,820. 7 Claims. (Cl. 139—34.)

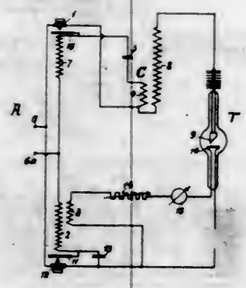


1. Mechanism for use in weaving rope mats comprising a plurality of shed forming bars, and a clamping device arranged to grip the ends of said bars to hold said bars rigidly in spaced parallel relation, said clamping device being releasable to permit removal of said bars therefrom.

1,675,882. HIGH-FREQUENCY CIRCUITS. GERHARD FREIHERR DU PREL, Munich, Germany, assignor to Dr. Du Prel Elektromedizinische Apparate G. m. b. H., Munich, Germany. Original application filed Aug. 11, 1925, Serial No. 49,506, and in Germany Aug. 11, 1924. Divided and this application filed Sept. 17, 1927. Serial No. 220,232. 3 Claims. (Cl. 250—34.)

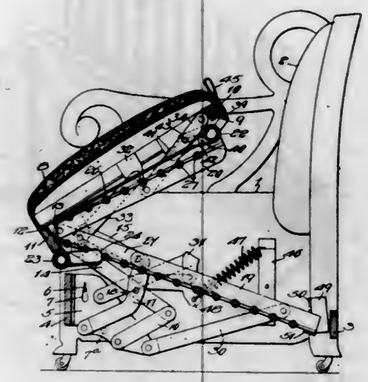
1. A supply circuit comprising a thermionic Roentgen tube, a Tesla transformer for the tube, an interrupter

governing said transformer for controlling the circuit to produce oscillation discharges, a heating transformer, and means for controlling said heating transformer for supplying alternating current of reduced voltage to heat the



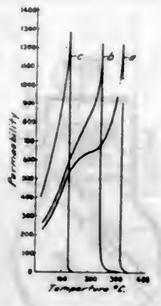
cathode of the tube comprising a second interrupter operating to chop up the current delivered by the heating transformer at a constancy suitable for a cathode heating action.

1,675,883. BED DAVENPORT. DARRELL F. DYKE, Chicago, Ill., assignor to The Seng Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 15, 1920. Serial No. 424,113. 7 Claims. (Cl. 5—13.)



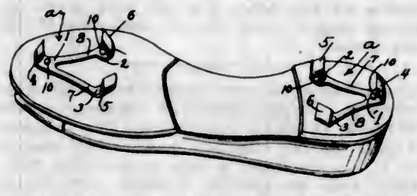
1. In a bed davenport, a frame including a fixed front board, a plurality of foldable bed sections, a supporting plate at each end of the frame behind the front board extending neither above nor below the board immediately at the back thereof but extending rearwardly and downwardly therefrom, links connecting some of the sections to the seat, hinging links pivoted in the downwardly extending plate portion behind and below the front board to swing the seat forwardly and support it adjacent the frame, a holding support for the outer side of the seat when it is inverted, operated by the movement of the outer links which connect one of the sections to the seat, and other links also pivoted in the downwardly extending plate portion for swingingly mounting the rear bed section in the frame, the plates constituting the sole support in the frame for the seat and the bed sections.

1,675,884. MAGNETIC MATERIAL. GUSTAF W. ELMEN, Leonia, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 29, 1926. Serial No. 112,450. 13 Claims. (Cl. 175—21.)



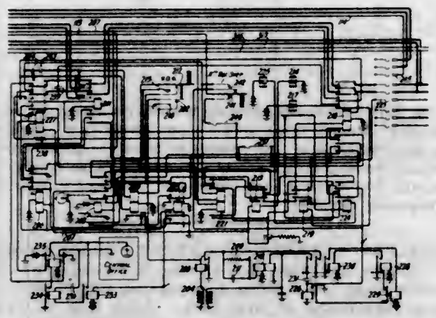
1. A magnetic material comprising nickle and copper and having a higher permeability at low magnetizing forces than iron.

1,675,885. NONCLOGGING BASEBALL-SHOE SPIKE. RAYMOND E. FRENCH, Los Angeles, Calif. Filed Feb. 1, 1927. Serial No. 165,130. 2 Claims. (Cl. 36—59.)



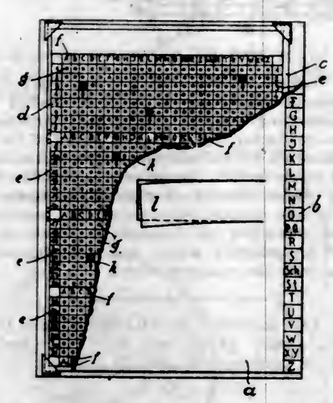
1. A spike attachment for shoes, constructed as a unit of metal and comprising three perforated feet having plane faces for bearing against the tread member of a shoe; calk-blades formed as marginal extensions from the feet respectively, and a relatively slender connecting limb extending from one of the feet to each of the remaining feet, whereby to provide comfort to the wearer and to minimize breaking of the sole over the spike attachment between said remaining feet.

1,675,886. TELEPHONE SYSTEM. ALFRED E. HAGUE, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 8, 1927. Serial No. 159,760. 16 Claims. (Cl. 179—27.)



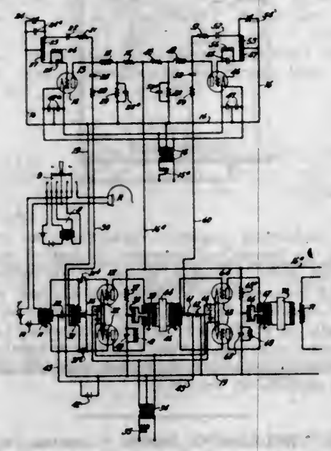
2. In a telephone system, a local exchange, a distant exchange, telephone lines terminating in the local exchange, trunk lines extending between said exchanges, an automatic switch, means for associating a calling telephone line with said switch, means for associating a trunk line with said switch, means at said local exchange for supplying talking current to calling and called lines, means for disconnecting said supply means, a relay operable when said switch is associated with a calling telephone line to render said disconnecting means ineffective and means for preventing the operation of said relay when said switch is associated with a trunk line to render said disconnecting means effective.

1,675,887. DAYBOOK. HANS HAMMER, Munich, Germany. Filed July 16, 1927, Serial No. 206,212, and in Germany Oct. 22, 1926. 3 Claims. (Cl. 129—15.)



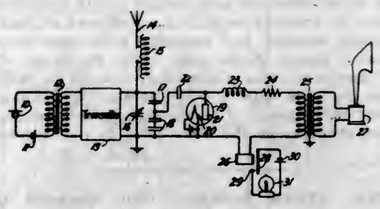
1. A day-book, comprising in combination with a file having index-sheets, a marking-device subdivided into squares designated by figures and letters, and markers adapted to be fixed on the squares which correspond to certain dates and to certain letters filed under the corresponding letter in the book or file.

1,675,888. RADIOTRANSMISSION. RAYMOND A. HEISING, Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 19, 1924. Serial No. 700,386. 7 Claims. (Cl. 250—6.)



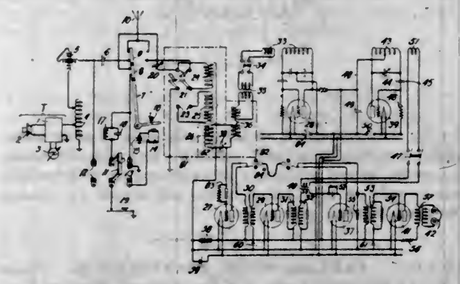
6. The method of transmitting speech by electric waves which comprises modulating a carrier wave in accordance with speech, suppressing the carrier wave and one side band and partially suppressing the waves of the other side band corresponding to the lower speech tones.

1,675,889. ELECTRIC WAVE SIGNALING SYSTEM. ARTHUR W. KISHPAUGH, East Orange, N. J., assignor by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Apr. 28, 1925. Serial No. 26,334. 8 Claims. (Cl. 250—17.)



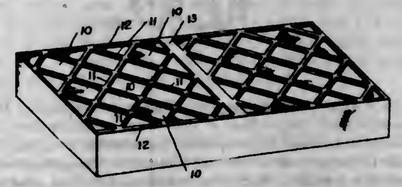
1. A monitoring system for modulated high frequency waves comprising a signal pick-up means for the waves, one device supplied by said pick-up device for indicating the presence of the waves and another device for indicating the presence of and the nature and effectiveness of the signaling varintions therein.

1,675,890. HIGH-FREQUENCY TRANSMISSION. JOHN C. GABRIEL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 29, 1923. Serial No. 683,299. 5 Claims. (Cl. 250—9.)



4. A radio receiver for use with a transmitter for duplex radio communication by combining incoming and outgoing carrier waves to produce intermediate frequency waves which comprises a cord circuit and jacks for bypassing detected waves around the intermediate frequency selecting and detecting circuits, in combination with switches for cutting the transmitter circuit off from the antenna and connecting the receiving circuit to the antenna.

1,675,891. DOMINO AND ART OF MAKING THE SAME. TOM C. GRAHAM, Albany, N. Y., assignor to The Embossing Company, Albany, N. Y., a Corporation of New York. Filed Nov. 9, 1926. Serial No. 147,234. 7 Claims. (Cl. 273—137.)

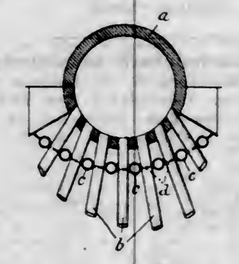


1. In the art of making dominoes, the improvement comprising shaping the dominoes and providing each with pip-areas in numbers suitable for dominoes of high denominations and separated from each other by intervening spaces of the same color as but different elevation

from the pip-areaa themselves, and coloring different numbers of pip-areas on the several dominoes to provide the desired denominations, dominoes contrastively to the other pip-areas of lower denominations being left with one or more pip-areas of the same color as the intervening spaces.

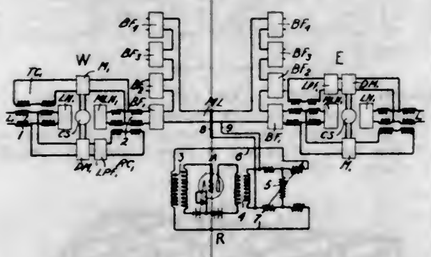
6. A set of dominoes each having on its face recessed pip-areas in numbers suitable for dominoes of high denomination, bounded and separated from each other by intervening spaces of the same color, the areas of different dominoes being distinctively colored in different numbers to form pips of the different denominational numbers, each domino of lower denomination having one or more pip-areas of the same color as the intervening spaces.

1,675,892. STEAM BOILER. OTTO HERMANN HARTMANN and EDUARD BLEITNER, Kassel-Wilhelmshohe, Germany, assignors to Schmidt'sche Heissdampf-Gesellschaft m. b. H., Kassel-Wilhelmshohe, Germany, a Corporation of Germany. Filed June 15, 1923, Serial No. 645,500, and in Germany June 28, 1922. 3 Claims. (Cl. 122—235.)



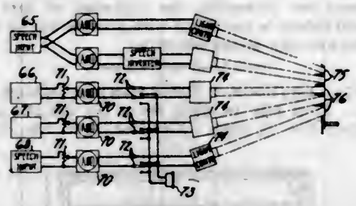
1. In a steam boiler, a water container, spaced water tubes extending from said container and communicating therewith, spaced protective tubes extending between and transversely of said water tubes, and means for closing the gaps between said tubes.

1,675,893. CARRIER-WAVE TRANSMISSION. JACOB S. JAMMER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 17, 1923. Serial No. 652,031. 10 Claims. (Cl. 179—15.)



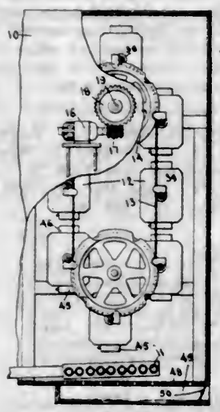
1. In a signaling system including a transmission line, the method of employing a one way repeater for two way operation which comprises impressing part of the amplified energy upon the transmission line, impressing the energy received from the transmission line and another part of the amplified energy on the input of the repeater to control the amplification of the received energy, and attenuating the energy impressed on the input sufficiently to prevent singing while amplifying the received energy.

1,675,894. METHOD AND APPARATUS FOR RECORDING AND REPRODUCING SOUND. CHARLES D. LINDRIDGE, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 20, 1924. Serial No. 721,360. 29 Claims. (Cl. 179—100.1.)



23. The method of recording and reproducing sound, which comprises producing waves corresponding to the sound, modulating a carrier wave in accordance with said waves, producing a photographic record of the modulated components in the resulting waves, simultaneously producing a photographic record of the unmodulated first mentioned waves, separating reproducing waves corresponding to said records, demodulating the resulting carrier waves, combining the demodulated waves with the reproduced unmodulated waves, and producing sound in accordance with the combined waves.

1,675,895. INCUBATING APPARATUS. JAMES H. LORD, Methuen, Mass. Filed June 28, 1923. Serial No. 648,204. 8 Claims. (Cl. 119—35.)



1. An incubating apparatus comprising an enclosure providing an incubating chamber, a pair of conveyers in parallel, each making a closed circuit between the upper and lower parts of said chamber, pivot rods carried by said conveyers, and egg carriers mounted on said pivot rods, each adapted to rotate thereon to invert its comtained eggs and having shiftable weighting means to cause it to be stably suspended from its pivot rod in either position of inversion.

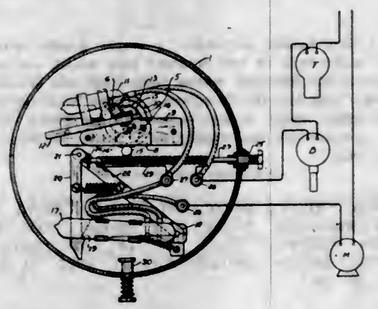
1,675,896. RELEASING HOOK. ARTHUR W. LYDA, North Canton, Ohio. Filed Aug. 12, 1927. Serial No. 212,484. 2 Claims. (Cl. 294—84.)

1. A releasing hook including a plate for connection with a supporting member, a hook member pivotally connected with the plate, a lever normally holding the hook member in locked supporting position, a plunger connected to the lever and provided with a foot and arranged to be engaged by a member sustained by the hook member,



and spring means for moving the lever out of engagement with the hook member when the pull upon the sustained member is released.

1,675,897. SAFETY ELECTRIC CONTROL DEVICE. IRA E. MCCABE, Chicago, Ill. Filed June 4, 1925. Serial 34,794. 11 Claims. (Cl. 200—122.)



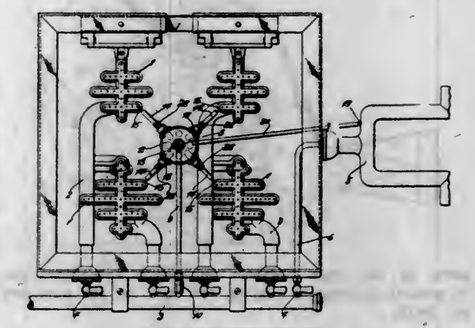
1. A safety electrical control device including a thermostatically controlled electric switch, an additional switch normally in circuit between said first switch and the main circuit, and a time element between the poles of the first switch completing the main circuit to the second switch for breaking the circuit through the second switch, whereby the closing of the main circuit when the first switch is in open position will, upon failure of thermostatically controlled switch to close within a predetermined time, break the main circuit through the second switch.

1,675,898. HOUSING FOR LIGHT-ACTUATED SWITCHES. IRA E. MCCABE, Chicago, Ill. Filed Jan. 10, 1927. Serial No. 160,164. 5 Claims. (Cl. 158—42.4.)



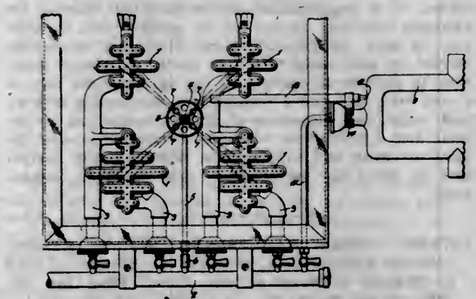
1. In a housing for a light actuated electric switch, means for mounting said switch and supporting it within the housing, means for rotating said switch mounting to place said switch in an inoperative position, and means for securing said housing with said switch in operative position co-acting with said latter means.

1,675,899. AUTOMATIC IGNITER FOR GAS STOVES AND THE LIKE. CARL E. METHUDY, St. Louis, Mo., assignor, by mesne assignments, to Alvin D. Goldman, St. Louis, Mo. Filed July 21, 1927. Serial No. 207,391. 9 Claims. (Cl. 158—115.)



7. An automatic igniter for a gas burner having gas jet-forming openings through one wall, and having a gas outlet through another wall at an angle to said openings, comprising a casing for confining a body of combustible gas, a pilot light burner in said casing, and means for conducting gas from said outlet to said casing for ignition by said pilot light burner and for discharging the pressure of combustion and the combustion flame in a plane parallel with the wall of said first named burner having jet-forming openings.

1,675,900. OVEN LIGHTER FOR GAS STOVES. CARL E. METHUDY, St. Louis, Mo., assignor, by mesne assignments, to Alvin D. Goldman, St. Louis, Mo. Filed Aug. 20, 1927. Serial No. 214,233. 6 Claims. (Cl. 158—115.)

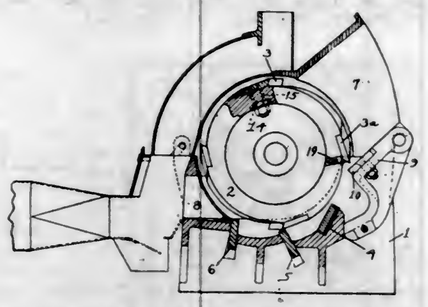


2. A device of the character described comprising a pilot light adapted to flash a flame outwardly therefrom, a burner spaced from the pilot light and provided with a gas outlet, and a tube supported between the burner and the pilot light and having an open end below the plane of the flame issuing from the pilot light and an open end arranged to receive and conduct gas issuing from the burner toward the pilot light.

1,675,901. DISINTEGRATING MACHINE. PHILIP S. MITTS and WILLIAM J. WINSTON, Saginaw, Mich., assignors to Mitts & Merrill, Saginaw, Mich., a Corporation of Michigan. Filed Feb. 26, 1925. Serial No. 11,873. 1 Claim. (Cl. 83—6.)

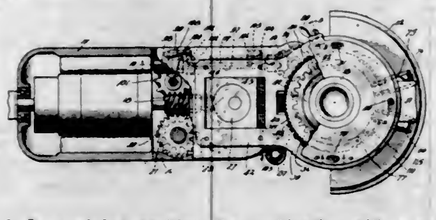
In a machine of the character described, a revolving drum having flat straight-edged knives on the peripheral face thereof extending angularly across the drum, suc-

cessive knives having opposite angular inclinations with respect to the axis of the drum, each knife having a straight-edged material-beating face, those peripheral



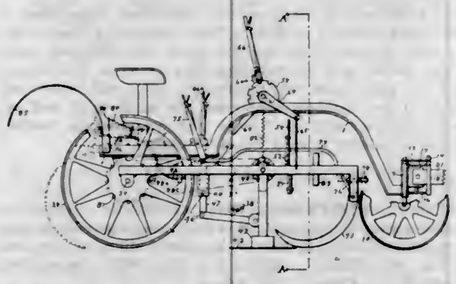
parts of the drum between successive knives warped to present alternately sloping surfaces, for the purposes set forth.

1,675,902. MINING AND LOADING APPARATUS. EDMUND C. MORGAN, New York, N. Y.; Olive Eugenie Morgan executrix of said Edmund C. Morgan, deceased. Filed Oct. 24, 1921, Serial No. 509,981. Renewed Nov. 28, 1927. 20 Claims. (Cl. 262—5.)



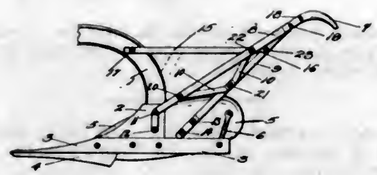
1. In a mining machine, the combination with a main frame, of a supplemental frame mounted thereon for swinging relatively thereto on an upright axis, a radial arm on said supplesental frame, dislodging mechanism carried by said radial arm for bodily movement therewith in position to operate on the upright solid face of a coal vein, and power transmission mechanism between said main and supplemental frames comprising a circular and a multiplicty of pawls distributed around the same to swing said supplemental frame on said upright axis to effect the operation of said dislodging mechanism.

1,675,903. BEAN HARVESTER. ROY E. MURPHY, Colorado Springs, Colo., assignor of one-third to Fred E. Mefford, Colorado Springs, Colo. Filed Jan. 30, 1926. Serial No. 84,891. 6 Claims. (Cl. 55—107.)



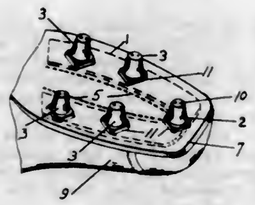
1. In a bean harvester, the combination of a rigid frame; drive shafts journalled at the rear of said rigid frame, each shaft carrying a traction wheel keyed thereon; front axles and wheels mounted at the front of said rigid frame; a frame having a transversely disposed actuating shaft journalled therein, pivotally mounted on each drive shaft; driving means for said actuating shafts; a vertically disposed housing, having a vertically disposed shaft journalled therein, pivotally mounted on each actuating shaft, and actuating gears for said vertically disposed shafts.

1,675,904. PLOWHANDLE. SATURNINO GARCIA NAVARRO, Habana, Cuba. Original application filed Dec. 27, 1924, Serial No. 758,393. Divided and this application filed Mar. 1, 1927. Serial No. 171,802. 1 Claim. (Cl. 97—191.)



In a plow-handle structure, a single handle attached to the upper ends of two straight rods which are united by an angular link and whose lower ends are secured to the lower portion of the plow-standard and the moldboard, while their upper ends are connected to the upper portion of the standard by two parallel horizontal rods.

1,675,905. SPORT BOOT AND SHOE. KEITH SALAMON NETTHEIM, Manly, near Sydney, New South Wales, Australia. Filed Apr. 13, 1926, Serial No. 101,683, and in Australia July 17, 1925. 1 Claim. (Cl. 36—59.)

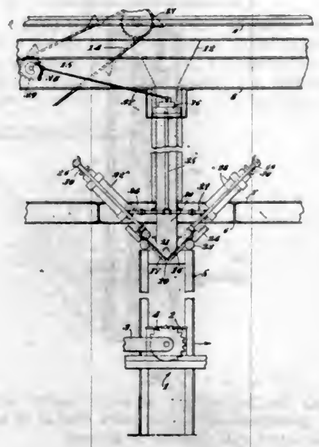


A sport shoe comprising inner and outer soles, a reinforcing thin U-shaped penetrable metal plate interposed between said soles, a U-shaped reinforcing row of stitching in said soles and disposed closely adjacent the inner contour of the plate studs carried by the plate and projecting from the outer sole, and nails for attaching the said studs to the plate, the said nails being driven thru the studs, the outer sole and plate turned over within the inner sole whereby they are prevented from repassing thru said plate.

1,675,906. METHOD OF AND MEANS FOR FORMING AND DELIVERING CHARGES OF FICTILE MATERIAL. ABRAM A. OEFFNER, Mount Union, Pa., assignor to The Harbison-Walker Refractories Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 27, 1926. Serial No. 157,224. 15 Claims. (Cl. 25—103.)

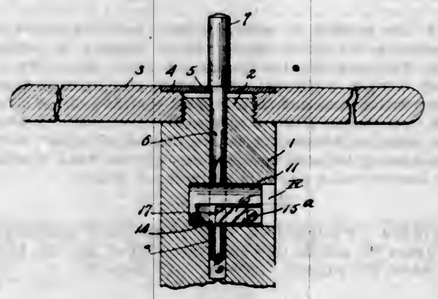
3. Apparatus of the class described comprising a hopper, means for dropping a charge of material from a substantial height onto the bottom of the hopper,

means for supporting a mold vertically below the hopper at such a distance that a charge falling from the hopper will acquire sufficient momentum to cause it com-



pletely to fill the mold, and means for suddenly opening the hopper to permit the entire charge to fall therefrom in the form of a dense swarm of discrete particles into a mold carried by said supporting means.

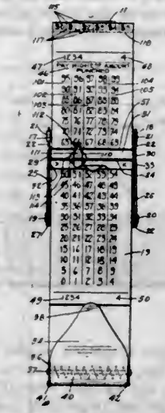
1,675,907. JACK SPOOL. CARL P. PARK, Lewiston, Me., assignor to U. S. Bobbin & Shuttle Company, Providence, R. I., a Corporation of Rhode Island. Filed Nov. 5, 1926. Serial No. 146,362. 5 Claims. (Cl. 242—124.)



1. A spool of the class described comprising a head and a barrel, and means for fastening the head upon the barrel comprising cooperating screw-threaded portions within the barrel, and means within the barrel normally operative automatically to lock the screw-thresded portions against loosening as the head is brought into tighter engagement with the barrel.

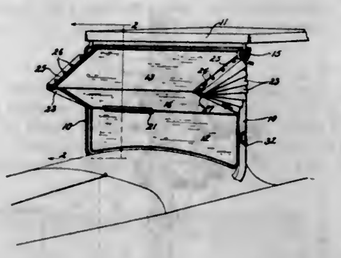
1,675,908. SALES-CHECK SYSTEM. CHARLES T. RASCHICK, St. Paul, Minn. Filed Jan. 5, 1922. Serial No. 527,182. 3 Claims. (Cl. 33—198.)

1. A check severing device comprising an elongated support adapted to extend longitudinally of the checks, a plate like member slidably mounted upon the rear of the said support, said plate like member having ears formed at the corners thereof extending upwardly along the edges of said support, a spring member secured to the ears of said plate like member and having a portion positioned transversely across said support, a cutter hingedly connected to said transverse portion and a



notching device slidably mounted upon said transverse portion having a cutting edge extending outwardly beyond said cutter.

1,675,909. WINDSHIELD. ANDREW L. RIKER, Fairfield, Conn. Filed Feb. 3, 1923, Serial No. 616,716. Renewed May 7, 1928. 5 Claims. (Cl. 296—95.)

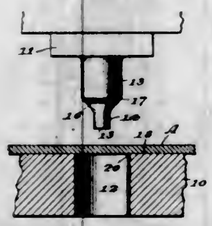


1. In combination with a vehicle, a shield member associated with the forward portion of the vehicle and extending forwardly of the vehicle and downwardly at an acute angle with respect to the vertical, a vision member associated with the vehicle and shield member and extending forwardly of the vehicle and upwardly at an acute angle with respect to the horizontal, the vision member being adapted to completely fill the space between the vehicle and shield member in any of several positions of adjustment, and side protecting devices associated with the shield member, vision member and vehicle, said side protecting devices being adapted to allow relative adjustment of the vision member and shield member.

1,675,910. TOOL FOR DRAWING TUBULAR BOSSES. ANDREW L. RIKER, Fairfield, Conn. Filed Feb. 19, 1926. Serial No. 89,345. Renewed May 7, 1928. 3 Claims. (Cl. 113—42.)

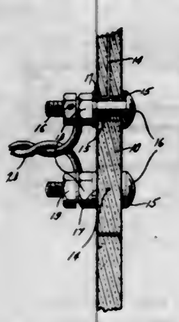
1. A tool comprising a female member adapted to have placed thereon a strip of metal from which a tubular boss is to be struck, and a male member having an end portion adapted to provide a drawing and piercing element and an annular shoulder extending outwardly of said element and away from said female member, the outer end of said end portion being at an angle slightly less than 90° to

said drawing and piercing element, and the opening in said female member being of diameter greater than the largest diameter of said annular shoulder and including a circular bending edge, said element and edge being adapted to cooperate to cause metal to define a tubular boss to be displaced from the plane of said strip into the opening of said female member, said element being



adapted to pierce said displaced metal, and said annular shoulder and said edge being adapted to cooperate to complete the shaping of the tubular boss after the piercing is accomplished by further displacing and expanding the metal for the boss and within the opening of the female member to enlarge the opening in said metal defined by said element.

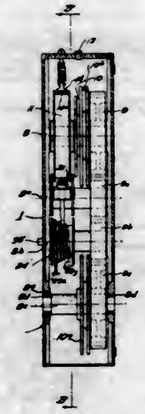
1,675,911. WINDSHIELD HEATER. FLOYD E. ROBERTS, Melbourne, Iowa. Filed Feb. 1, 1926. Serial No. 85,193. 2 Claims. (Cl. 173—259.)



1. In combination with a sheet of glass or the like having an opening formed therein and a wire imbedded in the glass with one end extending into said opening, an electrical connection comprising a soft metal bushing of the same diameter as the opening, said bushing being forced into said opening whereby the extending end of the wire in said opening is imbedded in said bushing and means for connecting a source of electric current to said bushing.

1,675,912. YIELDABLE BARRIER. EMERSON D. SAWYER, Chicago, Ill. Filed July 31, 1926. Serial No. 126,280. 3 Claims. (Cl. 39—1.)

2. In a device of the class described comprising a pair of columns and a barrier net supported therebetween, a counterweighted carriage adapted to move vertically within each column, each carriage supporting reserve cables, said reserve cables being connected to said barrier net and terminating within said carriage, automatically tightening braking devices associated with each carriage for initially slowing down and finally stopping the payment out of said reserve cables when said barrier net is struck by a moving vehicle, means for the prevention of the freezing together of brake band and brake drum, parts of the said braking devices, when those parts are in con-



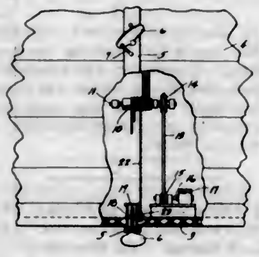
tact during the paying out of said reserve cables, and manually operatable means for quick release of said braking devices after said vehicle is stopped.

1,675,913. METHOD OF MAKING EYELETS. EDWARD L. SIBLEY, Bennington, Vt. Original application filed Dec. 19, 1925, Serial No. 76,525. Divided and this application filed May 5, 1926. Serial No. 106,975. 3 Claims. (Cl. 113—40.)



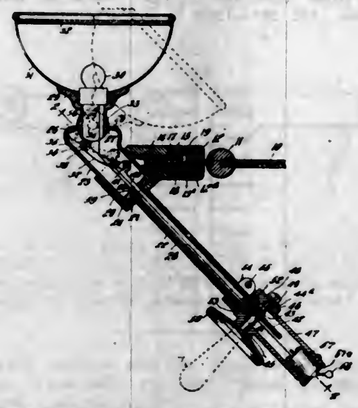
1. The method of making eyelets having a series of longitudinally slitted fingers, which consists in slitting the stock and forming the fingers about such slits, so that there is a slit extending lengthwise in each finger between its ends, and then forming the thus slitted blank cut from the stock into a collapsible eyelet, whereby when the eyelet is collapsed or set the fingers will divide along the lines of the slits and produce twice as many heading or flange-forming elements as there are fingers.

1,675,914. PROPELLER FOR DIRIGIBLE AIRSHIPS. JESSE W. SILVER, Tacoma, Wash. Filed Apr. 17, 1926. Serial No. 102,697. 1 Claim. (Cl. 244—6.)



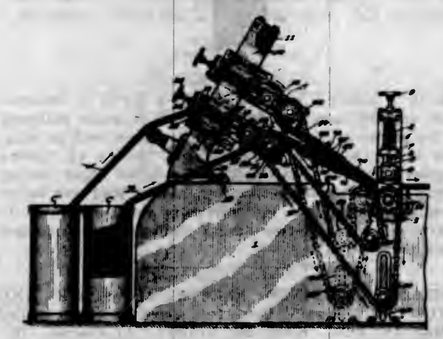
In a ship of the character described, a raceway fixed about the body of the ship, anti-friction members carried by the raceway, a ring revoluble about the body of the ship on the anti-friction members an internally toothed ring gear fixed within the ring, propeller fins fixed to the ring, a plurality of circumferentially spaced driving gears mounted within the body of the ship and engaging the ring gear and a driven means located centrally of the ship operatively connected with all of said gears.

1,675,915. DIRIGIBLY-MOUNTED LIGHT. CLIFFORD SKLAREK, Chicago, Ill., assignor to International Spotlight Corporation, Chicago, Ill., a Corporation of Illinois. Filed Apr. 25, 1921, Serial No. 464,069. Renewed Oct. 7, 1927. 4 Claims. (Cl. 240—61.)



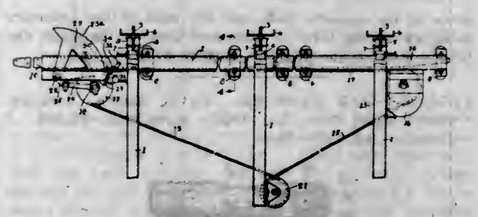
2. In a dirigible light mounting, the combination with a support adapted to be rigidly secured to a relatively stationary element, said support comprising an axially rotatably adjustable part adapted to be clamped in fixed relation to the other part; of a carrier having an opening therethrough, said carrier being oscillatably mounted on said adjustable part of said support to turn about a substantially horizontally extending axis; a hollow extension rigid with said carrier and extending therefrom to one side of said support and through which oscillation of said member is adapted to be effected; a lamp holder pivotally mounted on said carrier on the opposite side of the support and arranged to oscillate about an axis extending at right angles to the first named axis; means operatively associated with said lamp holder and including an element extending through said hollow extension to the free end of the latter; and manually operable means, located at the free end of said hollow extension, for actuating said first named means and for turning said rigid extension.

1,675,916. METHOD OF AND MACHINE FOR BLENDING FIBERS. JOHN R. STEWART, Rydal, Pa. Filed Mar. 7, 1927. Serial No. 173,227. 15 Claims. (Cl. 19—145.)



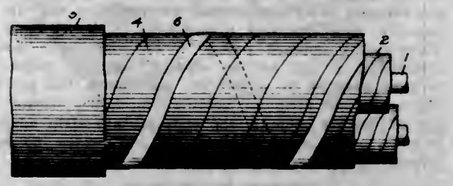
1. The method of blending fibers of different characteristics when formed in separate continuous slivers into a continuous composite sliver adapted to be formed into a top, which comprises the steps of mechanically feeding the different kinds of slivers separately but progressively in the same direction, bringing the moving slivers into intimate contact with each other, and then selectively arresting and resuming the feed of predetermined slivers for definite periods while continuing the feed of the other slivers.

1,675,917. AUTOMATIC ROPE TAKE-UP FOR LEVELER BARS. IVOR D. THOMAS, Palmyra, and PAUL H. DOUGLAS, Cleveland Heights, Ohio, assignors to The Wellman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 26, 1926. Serial No. 90,938. 10 Claims. (Cl. 214—23.)



1. In a device of the character described, a reciprocating member, a supporting frame having a guideway for said member, sheaves adjacent opposite ends of said guideway, a winding drum, operating cables, each attached at one end to said member, extending over one of the sheaves and attached at the opposit eend to said drum, a movable support for one of said sheaves, means for taking up slack in the cables comprising a counterweighted lever pivoted to the frame and connected to said movable sheave support, and means engageable with said lever to hold the same in adjusted positions.

1,675,918. HIGH-TENSION CABLE. RALPH W. ATKINSON and GEORGE J. SHUBTS, Perth Amboy, N. J., assignors, by mesne assignments, to General Cable Corporation, a Corporation of New Jersey. Filed May 9, 1923. Serial No. 637,698. 2 Claims. (Cl. 173—264.)

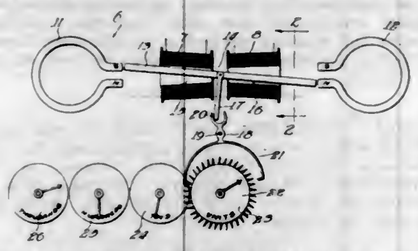


1. A multiple-conductor electrical cable of maximum carrying capacity and minimum diameter, including in its structure a cable body formed of a plurality of insulated conductors eccentrically assembled within a lead sheath, means for preventing separation of the conductors, such means consisting of a band of metal surrounding the body of assembled conductors and extending at an angle to the length of the cable body exceeding fifteen degrees, the sheath enveloping such banded cable body.

1,675,919. METER-OPERATING MEANS. GARRISON BABCOCK, Everett, Wash. Filed June 11, 1921. Serial No. 476,712. 3 Claims. (Cl. 175—339.)

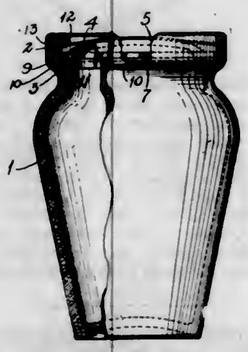
1. In combination, a permanent magnet having its poles brought relatively close together, a second permanent magnet having its poles brought relatively close together and facing opposite poles of said first magnet, and an armature pivoted between said magnets and adapted to swing from one diagonal position to another

diagonal position in line with unlike poles of said magnets, said armature being of a length less than the distance between said magnets and free of the magnet



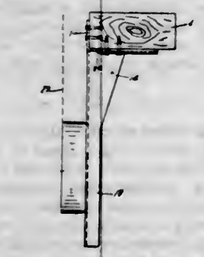
poles at its opposite ends and the ends of the armature being swingable through distances greater than the distances between the adjacent magnet poles.

1,675,920. JAR CLOSURE. DAVID BLOOM, Berkeley, Calif. Filed Nov. 17, 1925. Serial No. 69,599. 2 Claims. (Cl. 215—31.)



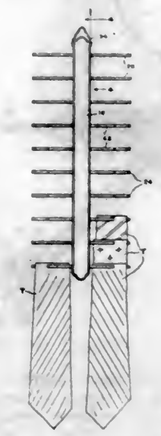
1. In combination a jar and a closure therefor, the jar having a relatively deep rim around the opening in the same, opposed open notches on said rim, recesses in the circumference of the rim commencing at the open notches and extending around the inside of the rim in opposite directions and terminating in closed ends at diametrically opposed points in the rim; said closure comprising a cap having opposed laterally projecting tongues adapted to occupy the notches in the jar rim and a resilient strip for holding the closure within the rim of the jar opening, the ends of said strip adapted to slide in the recesses in the rim and engage the same through the opposed open slots in the rim.

1,675,921. MEANS FOR MOUNTING ELECTRICAL FITTINGS. STEPHEN N. BUCHANAN, New York, N. Y., assignor to The Thomas & Betts Co., Elizabeth, N. J., a Corporation of New Jersey. Filed Jan. 6, 1927. Serial No. 159,439. 12 Claims. (Cl. 247—21.)



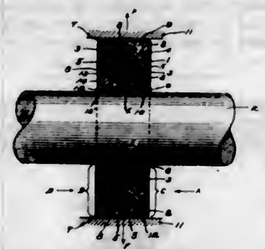
1. Means for mounting an electrical fitting comprising; a bracket and an arm adjustably carried on the bracket, said bracket having a part for attaching to a support and another part consisting of two side members and a tongue spaced between the side members, said arm having portions passing through the spaces on both sides of the tongue and terminating in flanges overlying said side members, said arm further being provided with means for longitudinally adjustably mounting said fitting thereon.

1,675,922. NECKTIE RACK. ISAAC E. BURT, Minneapolis, Minn. Filed Jan. 11, 1927. Serial No. 160,393. 3 Claims. (Cl. 211—120.)



1. A necktie rack comprising a front casing member having a plurality of notches, a rear casing member having a plurality of corresponding notches terminating in longitudinal slots, and pairs of necktie supporting arms held in said notches and slots when said casing members are telescoped with each other.

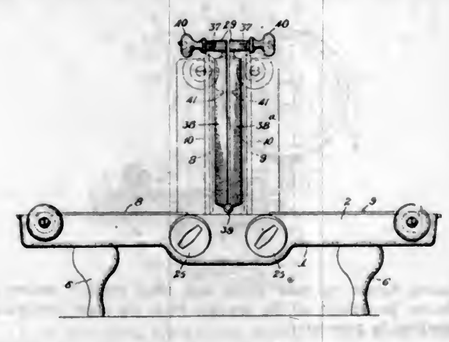
1,675,923. PACKING. ARTHUR W. CHESTERTON, Brookline, Mass. Filed Dec. 4, 1924, Serial No. 753,863. Renewed May 8, 1928. 4 Claims. (Cl. 154—45.5.)



3. In a packing, in combination, a series of substantially parallel layers of sheet material arranged obliquely to the planes of forces tending to compress said packing, said layers being in integral pairs formed by folding lengthwise of the packing, with the folded edges thereof forming the faces of the body of said packing, the layers forming each of said integral pairs being separated to receive one layer of two similar but oppositely arranged pairs of layers.

1,675,924. COMBINED ELECTRICAL STOVE AND TOASTER. EARL V. COULSTON, Cleveland, Ohio. Filed Mar. 16, 1927. Serial No. 175,677. 11 Claims. (Cl. 53—5.)

1. A combined electric cooking stove and grill comprising, a supporting frame, and a pair of hot plates pivotally mounted thereon, the pivotal points being spaced apart and disposed below the plane of the upper surfaces of the plates and adjacent to the opposed ends of the



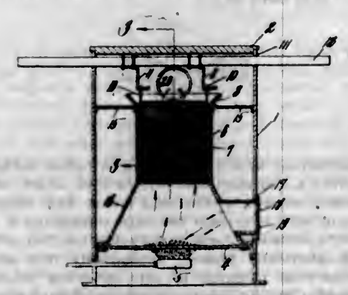
latter, said hot plates being adapted to lie horizontally for general cooking purposes or to be moved to opposed spaced relation in vertical planes to heat an object simultaneously on opposite sides with direct radiant heat.

1,675,925. TIMER BRUSH. CHARLES DAY, Fort Smith, Ark. Filed Sept. 28, 1927. Serial No. 222,472. 1 Claim. (Cl. 200—26.)



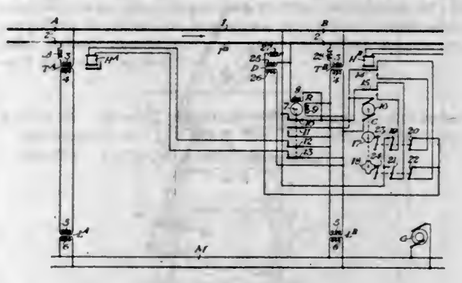
A timer brush assembly comprising a holder, brush holding brackets extended from the holder in spaced relation, the said brackets having circular brush bearings formed therein, a brush element mounted on the said brackets, the same including a flat spring and small, cylindrical twin brushes rigidly mounted at the ends of the spring, one of the said brushes engaging the said bearings of the brush holding brackets.

1,675,926. METHOD OF TREATING ARTICLES BEING GALVANIZED. THEODORE A. DISSEL, Winchester, Mass., assignor to Cameron Appliance Company, Everett, Mass., a Corporation of Massachusetts. Filed Dec. 23, 1925. Serial No. 77,260. 6 Claims. (Cl. 91—70.2.)



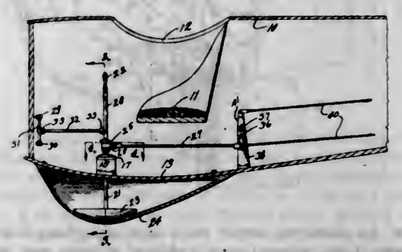
1. Those steps in the process of galvanizing articles which comprise vaporizing a flux, and passing the vapor through a mass of the hot zinc coated articles.

1,675,927. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. CHARLES W. FAILOR, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed May 6, 1927. Serial No. 189,269. 3 Claims. (Cl. 246—34.)



1. In combination, a section of railway track, a source of track circuit current connected with the rails adjacent the entrance of said section, a track relay connected with the rails adjacent the exit end of said section through its own front contact, means including a motor and a contact operated thereby for periodically applying train governing current to the track rails at the exit end of the section, and means operated by said motor for closing a shunt around said front contact of the track relay during each interval between applications of train governing current but not during the application of train governing current.

1,675,928. CONTROL FOR AIRCRAFT. ALFRED LEROY FISHER, Yale, Iowa. Filed Aug. 31, 1925. Serial No. 53,617. 1 Claim. (Cl. 244—29.)

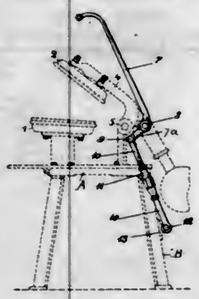


In combination with an air craft, a control means therefor comprising a control stick universally pivoted, a weight on the lower end thereof, a pair of rock shafts at right angles to each other and spaced from said control stick, an arm on each rock shaft, a pair of yokes each pivoted to one of said arms, a second pair of yokes, rods rotatably mounted in said second yokes and secured to the first yokes, and a pair of members rotatably mounted on said control stick, said second yokes being pivoted to said members, and means for operatively connecting the ailerons and elevators of said air craft to said rock shafts.

1,675,929. PRESS FOR DRYING AND IRONING WEARING LINEN. LOUIS FLORI, Boulogne sur Seine, France. Filed Dec. 8, 1925. Serial No. 74,021, and in France Dec. 24, 1924. 3 Claims. (Cl. 68—9.)

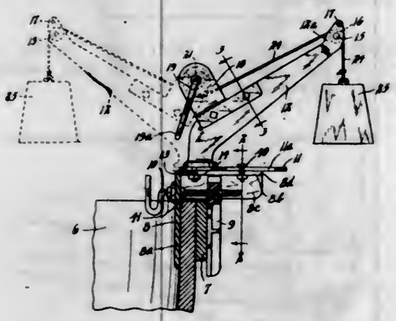
1. A press of the type set forth for drying and ironing linen, comprising in combination a frame, a stationary buck to receive the linen, a pressure head arranged over the buck, steam ducts imbedded in said buck and head for heating purposes, an arcuate arm rigidly secured to said pressure head and pivotally mounted on the press, said pivotal mounting comprising a transverse spindle supported rearwardly of the buck, a counterweight car-

ried by an integral rearward projection of said arm, a second transverse spindle supported in the latter projection of the arm, and a bell crank lever pivoted on the



second transverse spindle and at one end extending over the pressure head, the opposite end of the lever being pivoted to a link pivoted on the press.

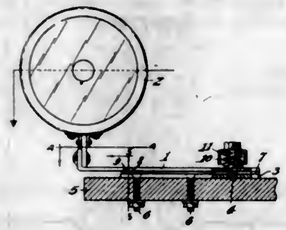
1,675,930. ANCHORING DEVICE FOR BOATS. OTTO S. GABRIELSON and MALCOLM J. WENNERSTROM, Minneapolis, Minn. Filed Apr. 22, 1927. Serial No. 185,820. 10 Claims. (Cl. 114—210.)



10. An anchoring device for a boat comprising a clamp adapted to be secured to the side of a boat, said clamp having a flat upper surface with an open ended slot formed therein, a plate bearing on the flat upper surface of said clamp, a standard carried by said plate, a reel mounted on said standard, a cable secured at one end to said reel, an anchor secured to the other end of said cable, two studs adjacent opposite ends of said plate and extending downwardly through said plate and the slot in said clamp, whereby said plate can be slid outwardly in respect to said clamp to cause one of the said studs to be withdrawn from said slot to permit said plate to be swung about the other stud as an axis.

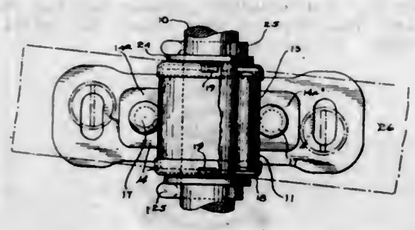
1,675,931. LAMP SUPPORT FOR AUTOMOBILE RUNNING BOARDS. WILLIAM A. GULLETTE, Wheeling, W. Va., assignor, by mesne assignments, to Mary Isabel Gullette, Wheeling, W. Va. Original application filed May 12, 1927, Serial No. 190,809. Divided and this application filed Nov. 14, 1927. Serial No. 232,999. 4 Claims. (Cl. 240—57.)

1. A lamp support for automobile running boards, comprising a base plate adapted to be rigidly mounted transversely upon the running board, an upright pivot pin carried by the inner end of said plate, a plate-like bracket having an end mounted on said pivot pin and adapted to swing upon the latter to and from a position in overlying relation to said base plate, said bracket having its outer end constituting a lamp mounting, and coacting



means borne by said plate and said bracket whereby chance movement of the bracket from its plate overlying position is prevented.

1,675,932. BEARING MECHANISM. JAMES M. HOWE, Cleveland Heights, Ohio, assignor to The Murray Manufacturing Company, Cleveland, Ohio, a Corporation of Michigan. Filed Sept. 6, 1924. Serial No. 736,224. 4 Claims. (Cl. 308—31.)



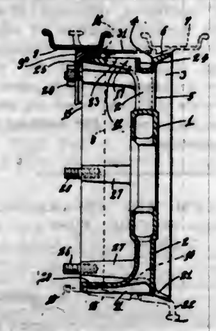
2. In combination, a bearing adapted to support a rotatable member, a plurality of roller members contacting directly with the rotatable member, a sleeve forming a cage for the roller and a base member supporting the sleeve and having formed thereon end closure portions for the sleeve to retain the rollers therein, the ends of the sleeve being formed to interengage with the closure portions of the base member in such manner that the sleeve holds the closure portions in place.

1,675,933. BEARING. CARL W. JOHNSON, Shaker Heights, Ohio, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 16, 1925. Serial No. 23,532. 1 Claim. (Cl. 308—72.)



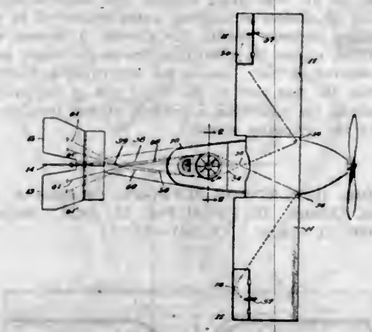
In combination with a rod having a hollow socket and a rod having a ball receivable within said socket, of bearing members carried within said socket and adapted to engage said ball, each said bearings comprising a socket element of cylindrical form and having the face adjacent said ball spherically formed, a relatively thin sheet of bearing material mounted in said spherical recess, the socket member having integral portions adapted to engage over the edge of said sheet to hold the latter in position, and said sheet also having its spherically shaped outer surface provided with a series of lubricant-containing recesses.

1,675,934. DUAL-TIRED TRUCK WHEEL. LLOYD D. KAY, Los Angeles, Calif. Filed Jan. 11, 1927. Serial No. 160,350. 8 Claims. (Cl. 301—65.)



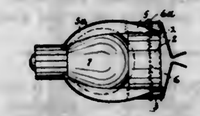
1. A dual-tired truck-wheel having a hub with a plurality of hollow spokes extending radially from the hub, an inboard felloe extending around the wheel, connecting the spokes, said felloe consisting of a flange having a substantially conical face on its outer side, constituting an inboard tire-rim seat, an outboard felloe extending around the wheel, having a face constituting a seat for the outboard tire-rim, said wheel having a relatively shallow dished concavo-convex web connecting the inboard felloe and the outboard felloe between the spokes, said web having its convex face disposed toward the axis of the wheel and its concave face disposed outwardly, and transverse ribs disposed in substantially radial planes with respect to the axis of the wheel, extending across the concave side of the web and connecting the felloes.

1,675,935. AEROPLANE STEERING DEVICE. ANDREW KOLODY, Chicago, Ill. Filed May 1, 1926. Serial No. 106,118. 11 Claims. (Cl. 244—29.)



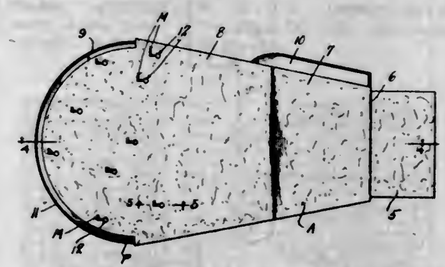
1. In an aeroplane having a rudder, front planes including ailerons, rear planes, and fuselage, including the floor and side walls, the steering mechanism comprising a transversal brace connecting said walls, a rotatable shaft passing through said brace and mounted upon said floor, a stationary gear mounted upon said floor, another stationary gear mounted upon said brace; said shaft passing centrally through said gears, a gear rigidly mounted upon said shaft, a drum upon said shaft positioned between said first named gear and said gear upon the shaft, another drum upon said shaft positioned between said second named gear and the gear upon said shaft, said drums being adapted for upright shifting movement upon said shaft, internal gears in said drums for selectively engaging said gear upon the shaft and said stationary gears, means associated with each drum for shifting each drum in or out of engagement with said gear on the shaft, a cable upon said first named drum connecting with the ailerons, a second cable upon the same drum connecting with said rudder, said two cables being adapted to steer the aeroplane in horizontal plane on rotating said shaft when said drum remains in engagement with said gear on the shaft, and cable upon said second named drum connected to the rear planes of the aeroplane to steer the aeroplane on vertical plane when said second named drum remains in engagement with said gear on the shaft.

1,675,936. GLARE SHIELD. FREDERICK C. KUEPPERS, Hawthorne, N. J. Filed Jan. 27, 1928. Serial No. 249,834. 3 Claims. (Cl. 240—48.6.)



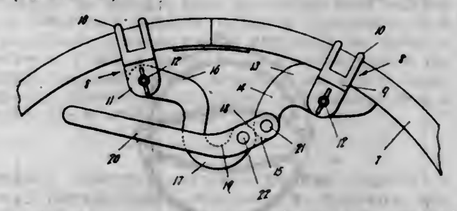
1. In a glareshield for an electric light bulb, the combination of a shield and bulb-gripping members projecting from the shield in the same general direction and each fulcrumed between its ends thereon and spring-urged toward and otherwise independent of each other.

1,675,937 GOLF GAME. HYMAN B. LASTING, Portsmouth, Va. Filed Nov. 2, 1927. Serial No. 230,561. 5 Claims. (Cl. 273—36.)



1. A game apparatus of the class described comprising a platform having an opening therein, said platform provided with a slot adjacent the opening, a marker having a reduced shank one end of which is offset and merges into a weight element, said reduced shank portion being slidable in the slot so that it may be laid flat on the platform with the weight element under the opening so that a ball passing through the opening will engage the weight element and swing the marker so as to slide downwardly and stand up in the slot at an angle to the platform.

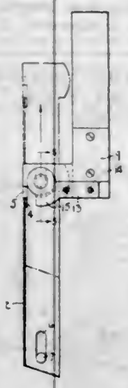
1,675,938. RIM REMOVER. JOHN B. LAW, Jersey City, N. J. Filed Feb. 9, 1925. Serial No. 7,938. 1 Claim. (Cl. 157—1.)



A rim remover comprising two clamps each composed of a pair of sections adapted to bear against the inner periphery of a demountable wheel rim, the sections of each clamp having outstanding hooks at their opposite ends to engage the flanges of the rim and said sections having inturned ears at their adjacent ends, each clamp

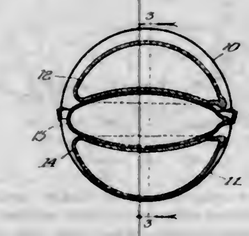
including a clamping bolt extending through said ears of the clamp sections for drawing said ears toward one another and causing said sections to bear against the inner periphery of the rim, a plate disposed between the ears of one clamp and having an outer edge formed to bear against the inner periphery of the rim to prevent turning movement of said plate, the bolt of said clamp engaging through said plate, a bar having one end portion engaging the bolt of the other clamp between the ears of said clamp, said plate having a portion extending toward the center of the rim and curved away from the second named clamp, and a lever pivotally connected with said portion and said bar, said bar being offset adjacent to the lever away from the rim to receive said portion so that said portion and offset hook together when the lever is swung to move the clamps toward one another.

1,675,939. WINDOW SUPPORT. CLAUDE A. LEWIS, Houston, Tex., assignor to American Window Company, a Corporation of Delaware. Filed Sept. 7, 1926. Serial No. 133,928. 5 Claims. (Cl. 20—49.)



1. In a window, upper and lower sashes, a rider for said lower sash, a pin at the lower end of said lower sash projecting into a slot in said rider, a laterally extending plate at the upper end of said lower sash, said plate being adapted to be received in a slot in said rider, whereby said sash may be released from said rider at its upper end in the manner described and said sash be then free to swing into reversed position.

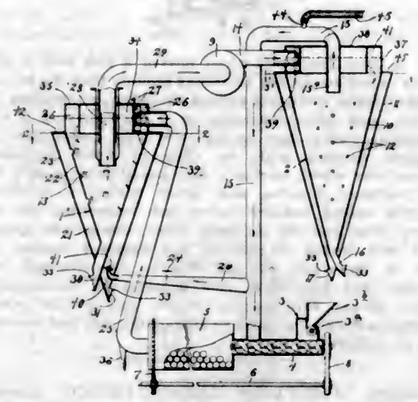
1,675,940. ART OF DISPERSING NOXIOUS MATERIALS. WINFORD LEE LEWIS, Evanston, Ill. Filed Dec. 19, 1921. Serial No. 523,384. 10 Claims. (Cl. 167—3.)



1. The method of dispersing noxious material which comprises bringing together stannic chloride and an aqueous solution of ammonia and introducing the noxious material into the reaction zone.

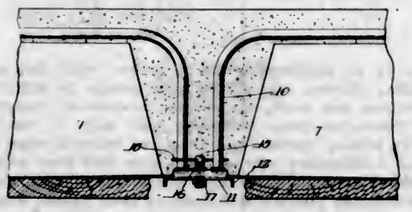
10. In means for dispersing noxious materials, a plurality of separate containers, stannous chloride in one of said containers, an aqueous solution of ammonia in another of said containers, one of said containers also containing ammonium chloride, means for retaining said containers in close proximity to each other so that mixture of said materials will take place on discharge thereof, and means for introducing the noxious material into the admixed compounds.

1,675,941. VACUUM AIR SEPARATOR. LYCURGUS LINDSAY, Los Angeles, Calif. Filed Jan. 14, 1925. Serial No. 2,340. 7 Claims. (Cl. 83—9.)



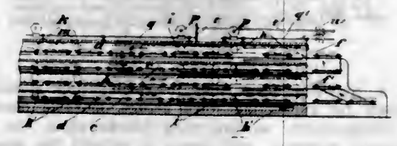
1. In an air separating system, the combination of a plurality of conical separating units connected in series, a grinding element within the circuit, a blower within the circuit, means for admitting gas to the upper zone of each separating unit, means for returning a portion of gas from the last unit to the lower end of the first unit, and means for returning a portion of gas from the last unit to the grinding element.

1,675,942. OUTLET-BOX SUPPORT. CHARLES A. LUNDBERG, Chicago, Ill. Filed Feb. 11, 1926. Serial No. 87,486. 1 Claim. (Cl. 247—21.)



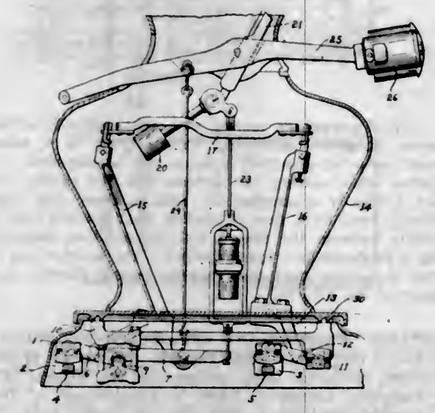
An outlet box support for use in concrete construction comprising a substantially flat metallic plate of a length such that the opposite ends thereof are adapted to rest upon the upper surfaces of two adjacent parallel supporting members, said plate being made of thin sheet metal so that the ends of filler pans spaced apart on said supporting members may overlap the side edges of the plate resting on top of the supporting members, and stiffening means for the plate extending longitudinally thereof but terminating short of the end portions of the plate which are adapted to rest upon the spaced supporting members, said plate being apertured to permit the passage of securing means therethrough whereby an outlet box may be temporarily secured in position upon the upper side of the plate between said pans.

1,675,943. BAKEHOUSE OVEN. CARL MAIRICH, Berlin, Germany. Filed Dec. 2, 1925, Serial No. 72,777, and in Germany Nov. 29, 1924. 7 Claims. (Cl. 107—57.)



4. In a bakehouse oven of the continuous type, an oven chamber, a plurality of aligned conveying units for the batch carriers arranged in series along the path of the carriers through the oven chamber so as to act in succession and in the same direction thereon, each unit comprising a short chain drive, the said units being arranged at spaced intervals in such a manner that the whole length of the said conveying units is only a part of the length of the travel of the said batch carrier.

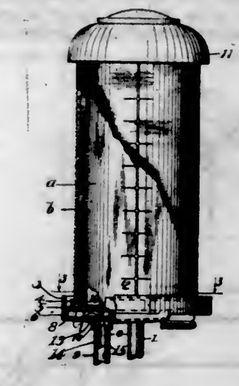
1,675,944. WEIGHING-SCALE MECHANISM. CHARLES O. MARSHALL, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Feb. 14, 1923. Serial No. 618,902. 10 Claims. (Cl. 265—36.)



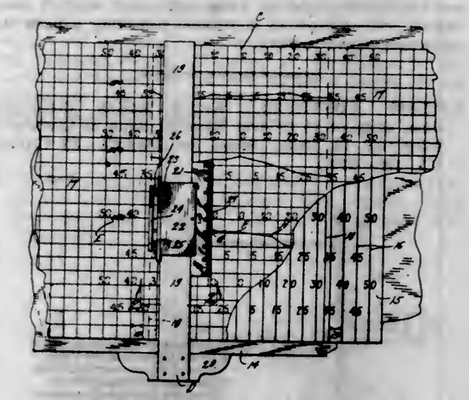
1. In a weighing scale, in combination, a base, an upwardly extending housing at one side of said base, a pair of levers supported by said base, and means within said housing for connecting said levers to cause them to move through equal arcs in the same direction.

1,675,945. PUMP. GEORGE C. MARTIN, Los Angeles, Calif. Filed Aug. 14, 1923. Serial No. 657,305. 1 Claim. (Cl. 221—100.)

Means for reducing the fire hazards in connection with containers of visible gasoline pumps comprising a base plate for supporting the container and having spaced flanges forming channels adapted to receive gasoline from the container in event of breakage, a drain pipe communicating with said channels, and a metallic screen of relatively fine mesh supported on said base plate and extending throughout the height of the container and surrounding the same and to serve as a heat dissipating flame resisting sheath therefor.



1,675,946. SURVEYOR'S DEVICE. ROBERT MCCORMICK, Ames, Iowa. Filed Sept. 13, 1926. Serial No. 135,099. 5 Claims. (Cl. 33—76.)

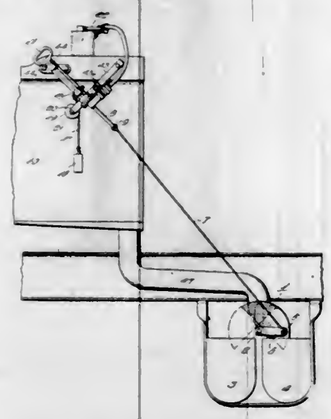


1. The combination of a flat support having a straight edge with a sheet having parallel rulings and arranged symmetrically on the support with the rulings perpendicular to the straight edge, the rulings being supplied with designating numbers, having a transparent sheet symmetrically arranged on the first sheet and ruled in squares a T square having its head resting against the straight edge and movable therealong, and a ruler longitudinally adjustable on the shank and graduated from a medial zero in both directions.

1,675,947. CONTROL APPARATUS FOR CENTRIFUGAL SEPARATORS. FREDERICK W. MCENTIRE, Salt Lake City, Utah. Filed Jan. 3, 1927. Serial No. 158,767. 4 Claims. (Cl. 210—75.)

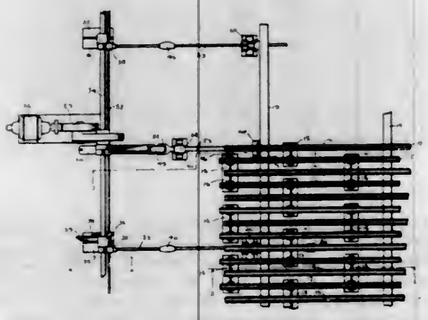
1. In a sugar separating machine, the combination of a centrifugal separator, a discharge pipe, a pair of troughs for conveying syrups and wash liquors, a diverting pan positioned intermediate said discharge pipe and

said troughs, an actuating rod connected to said diverting pan for moving said pan to one or the other of two extreme positions for selectively directing the discharge into one trough or the other of said troughs, a control rod for governing the position of said actuating rod, said control rod being mounted for reciprocal movement and having a groove throughout a portion of its length



an obstructing pin spring pressed into said groove, a socket adjacent the end of said groove into which said pin is arranged to project for latching said control rod in its extreme upper position and time control mechanism for withdrawing said pin from said socket whereby said control rod operates to move said deflecting pan to its extreme opposite position.

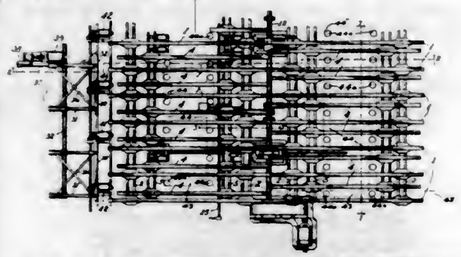
1,675,948. CONVEYER. WILLIS MCKEE, Cleveland, Ohio, assignor to Central National Bank of Cleveland. Filed Oct. 16, 1923. Serial No. 668,890. 33 Claims. (Cl. 198—219.)



19. A hot bed comprising work supporting members, mechanism for intermittently moving material across said bed, and means for regulating the distance of the intermittent movements of the material while the moving mechanism is in motion.

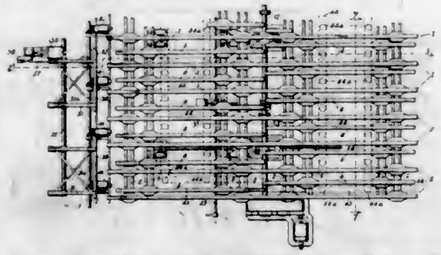
27. A conveyer comprising a stationary member, continuously moving means for intermittently advancing work blanks simultaneously and at two different rates of speed along the stationary member, drive means for actuating the said moving means, and means independent of the drive means for varying the rates of speed of movement of the work blanks without altering the original ratio between the said rates of speed thereof.

1,675,949. HOTBED. WILLIS MCKEE, Cleveland, Ohio, assignor to Central National Bank of Cleveland, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 22, 1925, Serial No. 64,194. Renewed May 28, 1928. 14 Claims. (Cl. 80—42.)



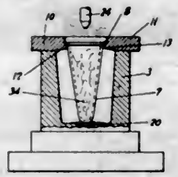
1. A conveyor comprising in combination stationary members for supporting work blanks, movable members for intermittently moving work blanks along the said stationary members, and means to actuate the movable members, the tops of the movable members being movable in two different parallel orbits one above the other.

1,675,950. METHOD OF COOLING WORK BLANKS. WILLIS MCKEE, Cleveland, Ohio, assignor to Central National Bank of Cleveland, Cleveland, Ohio, a Corporation of Ohio. Original application filed Oct. 22, 1925, Serial No. 64,194. Divided and this application filed June 18, 1926. Serial No. 116,871. 11 Claims. (Cl. 80—60.)



1. The method of cooling elongated, metallic articles which comprises delivering such articles in a heated condition in substantially side by side arrangement to a cooling zone, moving the articles into the cooling zone and gradually separating the articles from each other, thereby creating a flow of cooling fluid beneath and upwardly between the spaced articles, for then maintaining a predetermined spacing between the articles and the flow of cooling fluid therebetween during further movement of the articles.

1,675,951. PROCESS AND APPARATUS FOR PRODUCING CRACKLED GLASSWARE. DAVID L. MIDDENDORF, Columbus, Ohio, assignor to The Federal Glass Company, Columbus, Ohio, a Corporation of Ohio. Original application filed Feb. 4, 1926, Serial No. 85,872. Divided and this application filed June 21, 1926. Serial No. 117,357. 15 Claims. (Cl. 49—77.)



7. The method of producing crackled ware which comprises throwing a fluid against the blank of a quantity

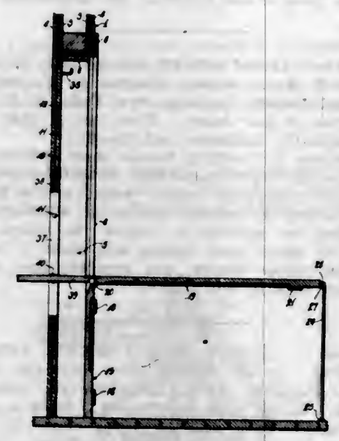
and quality to produce crackling in the finished article and without changing the temperature of the blank to a degree that will prevent proper shaping thereof.

1,675,952. PROCESS AND APPARATUS FOR PRODUCING CRACKLED GLASSWARE. DAVID L. MIDDENDORF, Columbus, Ohio, assignor to The Federal Glass Company, Columbus, Ohio, a Corporation of Ohio. Filed Aug. 6, 1926. Serial No. 127,669. 11 Claims. (Cl. 49—77.)



1. The method of producing crackled ware which comprises causing a fluid to play upon the mold exterior so as to maintain the interior of the mold at such temperature at which crackling of the ware being formed therein will be effected.

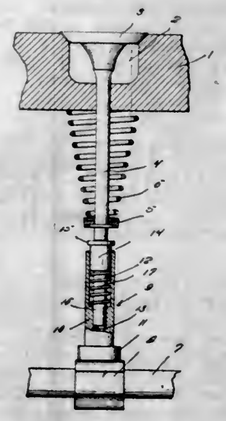
1,675,953. BUILT-IN FOLDING TABLE. DORSEY E. NICHOL, Washington, D. C. Filed Nov. 24, 1924. Serial No. 751,907. 3 Claims. (Cl. 20—1.11.)



1. The combination with a standard partition wall having an opening therethrough, of a door vertcially hinged in said opening substantially flush with one face of said wall, said door being transversely divided to provide an upper section adapted to fold outwardly and downwardly to constitute a table; and a horizontally pivoted serving door mounted substantially flush with the other face of said wall and adapted to be swung to a horizontal position substantially flush with said table section when the latter is lowered.

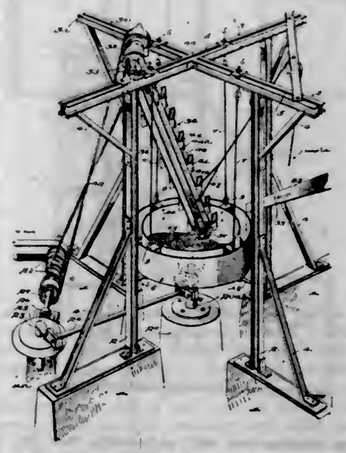
1,675,954. VALVE-TAPPET CONSTRUCTION. CHARLES H. PAGE, Charlottesville, Va., assignor of one-third to L. G. Hoxton and one-third to J. H. Ryalls, Charlottesville, Va. Filed Aug. 26, 1924. Serial No. 734,256. 1 Claim. (Cl. 123—90.)

A tappet construction for internal combustion engine valves comprising a body portion formed with an enlarged bore opening through one end portion thereof, and a smaller concentric bore in the central portion thereof communicating with said large bore and axially aligned therewith, a plunger slidably mounted in the larger bore and projecting beyond the end of said body portion for engagement with the valve stem of said engine, said plunger having a reduced cylindrical extension extending through said larger bore and slidably fitting in the smaller bore, and resilient means interposed between the



end of said plunger and the end of said larger bore in said body portion, the slidable mounting of the plunger providing bearings at spaced points adjacent the ends and beyond the ends of said resilient means for maintaining the axial sliding movement of the plunger in the bores, said small bore normally having a pocket formed beyond the end of said reduced extension providing a cushioning chamber for said plunger.

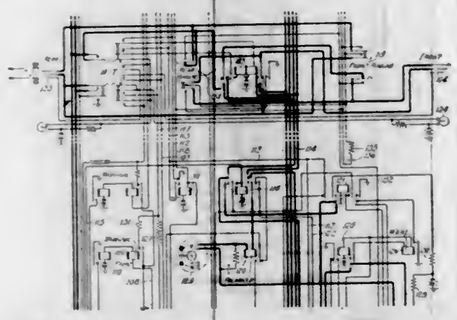
1,675,955. ORE-CONCENTRATING APPARATUS. HOWARD E. PETRO, Salt Lake City, Utah. Filed June 26, 1925. Serial No. 39,746. 17 Claims. (Cl. 209—446.)



1. A concentrating apparatus comprising a pan, a spindle carried by the pan, a guide bearing, said spindle being slidable and rotatable within the bearing, a sup-

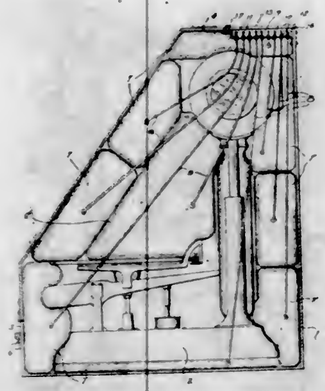
port overlying the pan, flexible means for suspending the pan from the support, and means to oscillate the pan about the spindle as an axis, the points of suspension of the pan on the support being fixed against angular movement with respect to the axis of oscillation whereby to impart to the pan a simultaneous movement of vertical reciprocation.

1,675,956. TELEPHONE SYSTEM. LESLIE F. PORTER, Passaic, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 25, 1927. Serial No. 194,014. 16 Claims. (Cl. 179—27.)



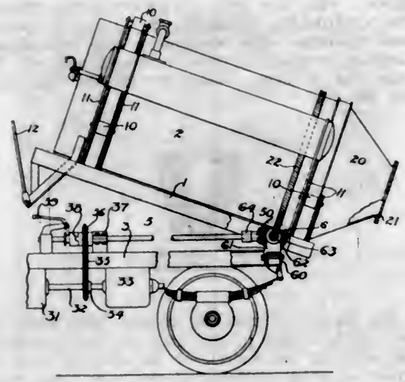
12. In a telephone system, a cord circuit, a trunk line accessible to said cord circuit, automatic switches operable over said trunk line, a switch controlling circuit common to said cord circuit, a polarized relay in said controlling circuit responsive to the setting of a switch, a relay responsive to said polarized relay for applying ringing current to said trunk line, and a plurality of relays for counting time for limiting the energization of said last relay to a predetermined period of time.

1,675,957. PACKING CASE. ORWELL C. REEVES, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Dec. 8, 1923. Serial No. 678,084. 3 Claims. (Cl. 206—65.)



1. The combination with a packing case for weighing scales, of a plurality of pneumatic supporting cushions disposed therein, each of said cushions having an individual inflation tube leading to a point readily accessible from the exterior of said case.

1,675,958. TRANSIT CONCRETE-MIXER DRIVE MEANS. CHARLES L. REYNOLDS, Seattle, Wash. Filed Aug. 15, 1927. Serial No. 213,095. 10 Claims. (Cl. 83—73.)

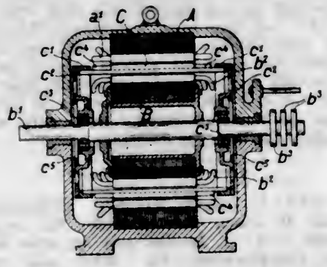


1. The combination with an automobile truck chassis and a subframe pivotally mounted thereon, a rotative mixer element mounted on said subframe, and drive means connecting said mixer element with the truck's power plant, including an element journaled coaxially with the pivot of said subframe, but independent thereof.

1,675,959. MANUFACTURE OF SHEET MATERIAL. REED P. ROSE, Jackson Heights, N. Y., assignor to General Rubber Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 2, 1926. Serial No. 152,312. 5 Claims. (Cl. 92—21.)

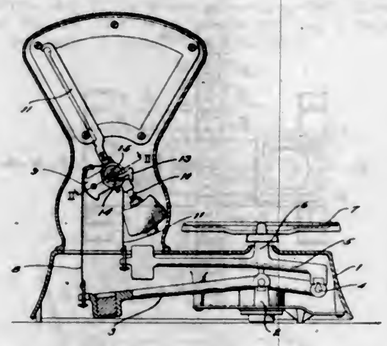
1. Process for making fibrous sheet material which comprises mixing a suspension of beaten fibres and a dispersion comprising rubber, water, and a protective agent having a negative charge in alkaline medium, acidifying the mixture to reverse the charge on the protective agent, thus causing said agent to carry the dispersed rubber towards and onto the fibre, and subsequently forming into sheets.

1,675,960. ALTERNATING-CURRENT INDUCTION MOTOR. LUDWIG SCHÖN, Essen, Germany, and WILHELM LEUKERT, Leipa, Czechoslovakia, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Mar. 7, 1925, Serial No. 13,827, and in Germany Mar. 13, 1924. 5 Claims. (Cl. 172—120.)



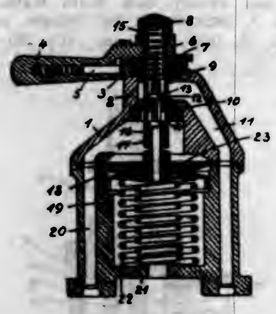
1. An alternating current induction motor comprising a stator, a rotor and an auxiliary rotor all concentrically arranged, a stator winding and a rotor winding, one of said windings being connected to a source of alternating current, a short-circuit armature winding carried by the auxiliary rotor and an exciting winding also arranged on the auxiliary rotor to generate a magnetic flux passing through the stator, the auxiliary rotor and the rotor.

1,675,961. PIVOT-ADJUSTING MEANS. EDWARD G. THOMAS, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed June 16, 1926. Serial No. 116,358. 4 Claims. (Cl. 265—36.)



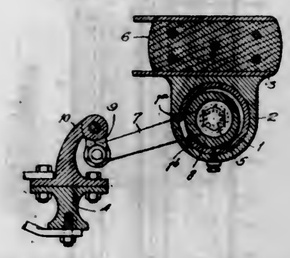
1. In a device of the class described, in combination, an arm, a pivot mounted thereon, an anchor for said arm including an eccentric trunnion, and means for turning said eccentric trunnion for adjusting the position of said pivot.

1,675,962. ONE-LINE BRAKE. IWAN TROFIMOFF, Moscow, Russia. Filed June 2, 1927, Serial No. 196,067, and in Russia June 15, 1926. 8 Claims. (Cl. 303—28.)



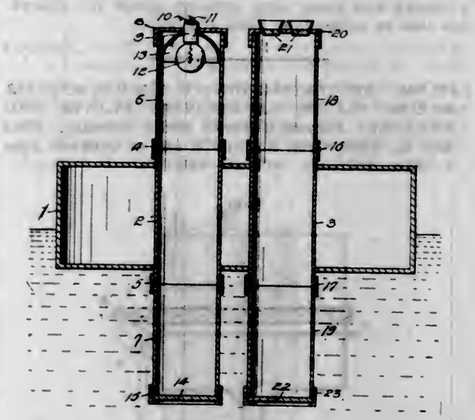
2. A brake of the one line type, comprising in combination a brake pipe, a brake cylinder, a principal air reservoir, an auxiliary air reservoir, a leaders valve, a ruling valve, a leaders handle on said leaders valve, a screw like part, said handle being movable on said screw like part, a hollow spindle, a double valve inside said spindle, a brake pipe chamber, one cone of said double valve governing an air inlet to said chamber, an atmospheric outlet, a valve seat on said outlet, the other cone of the double valve governing said outlet against said seat, said seat being influenced by the air pressure in said chamber and a spring.

1,675,963. RESILIENT SUSPENSION FOR MOTOR VEHICLES. GAETANO VEGLIO, Levallois-Perret, France, assignor to Societe Anonyme Overcau, Paris, France, a French Company. Filed July 27, 1925, Serial No. 46,382, and in France Aug. 8, 1924. 2 Claims. (Cl. 267—20.)



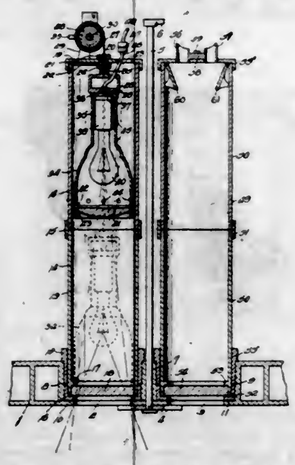
1. In a suspension device for vehicles, a cylindrical casing adapted to be secured to the vehicle, a cylindrical barrel eccentrically disposed within said casing, a lever secured at one end to said barrel and connected at its other end to the axle of the vehicle, and an arcuate spring surrounding less than 360° of said barrel, said spring being secured at one end to said barrel and at its other end to said casing.

1,675,964. DEVICE FOR LOCATING SUBMERGED BODIES. CHRIST G. WEINREICH, St. Louis, Mo. Filed Sept. 14, 1925. Serial No. 56,227. 3 Claims. (Cl. 88—1.)



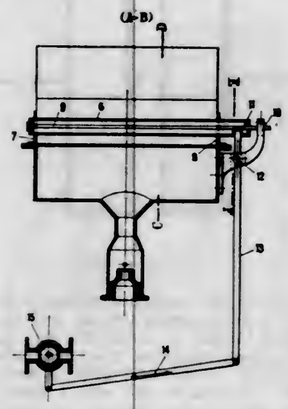
1. In a device for locating submerged bodies, a buoyant member, a tube passing through said buoyant member and fixed thereto, a closure for the upper end of said tube, a lamp supported below said closure, a reflector positioned behind said lamp, a transparent closure for the lower end of said tube, a second tube passing through said buoyant member and fixed thereto in spaced parallel relation to the first mentioned tube, a closure for the upper end of said second tube, lenses carried by said closure and a transparent closure for the lower end of said second tube.

1,675,965. DEVICE FOR LOCATING SUBMERGED BODIES. CHRIST G. WEINREICH, St. Louis, Mo. Filed Apr. 25, 1927. Serial No. 186,337. 2 Claims. (Cl. 114—66.)



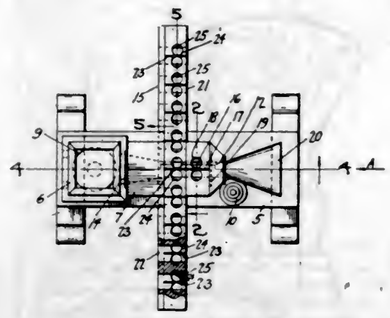
1. In a device of the class described, in combination with the hull of a watercraft having a light opening and a sight opening therein, a tube supported by the hull in alignment with the light opening therein, a vertically movable reflector within the light tube, a lens carried by the lower end of the reflector, an electric lamp within the reflector, a transparent window removably carried within the lower end of the light tube, cable openings within the upper end of said tube, means for closing said openings, an observation tube supported by the hull in alignment with the sight opening therein, sight openings in the upper end of said tube and means for automatically closing said upper sight openings should the observation tube be accidentally filled with water.

1,675,966. REGULATING DEVICE FOR GAS AND AIR MIXING PLANTS, GAS-DELIVERY PLANTS, AND THE LIKE. FRIEDRICH WOLFF, Berlin, Germany. Filed May 21, 1925, Serial No. 31,979, and in Germany June 3, 1924. 3 Claims. (Cl. 48—180.)



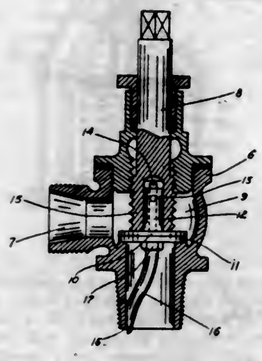
1. A regulating device for use in connection with gas and air mixing plants and gas delivery plants, comprising a test burner arranged to produce a broad flame, means for feeding a portion of the fuel mixture to said test burner, an expansible body comprising a tube fast at one end and passing through the core of the flame, a rod within said tube, said rod being fixed at both ends and said tube being free to expand along said rod, a gas supply, a valve controlling the gas supply, a lever actuating said valve, and a connection between said lever and the said expansible tube.

1,675,967. COMPARATOR. EMIL C. ZITKOWSKI, San Fernando, P. I. Filed Mar. 15, 1927. Serial No. 175,603. 12 Claims. (Cl. 99—14.)



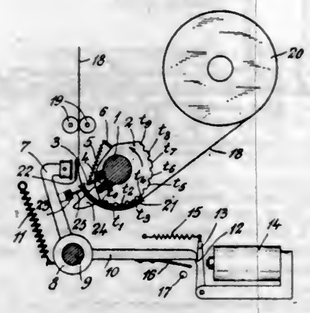
1. In an instrument of the character described, a sight-box having a light passage and pockets for test-tubes, divided by a partition dividing the field of the passage, and a carrier movable across the passage and having pockets for test-tubes, divided by partitions, the partitions being so disposed in the carrier that they register respectively with that of the sight box in the travel of the carrier across the passage.

1,675,968. MEANS FOR CLEANING THE COCK CONNECTIONS BETWEEN MAINS AND SERVICE OR BRANCH PIPES. CHARLES ALBERT BRITNELL, Marrickville, near Sydney, New South Wales, Australia. Filed Dec. 3, 1926, Serial No. 152,496, and in Australia Dec. 15, 1925. 1 Claim. (Cl. 251—29.)



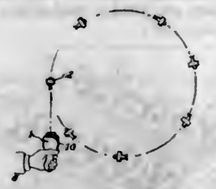
A valve for use as a connection between a main and a service pipe and comprising a body having a nipple for attachment to a main and provided with a seat at the inner end of its bore, a nipple for attachment to a service pipe, arranged at an angle to the first-named nipple said body having a chamber in the angle between and forming a connection between said nipples: a stem arranged axially with respect to the main nipple and threadedly connected to the body, a valve disc having a stud arranged in a bore in the lower portion of said stem, said stem having a longitudinal slot and said stud having a pin slidably engaged in said slot, said valve disc being arranged to close on the said seat and to turn on said seat but remain closed thereon when said stem is unscrewed, and being further provided with a scraper arm arranged for action in the bore of the main nipple.

1,675,969. AUTOMATIC PRINTING MACHINE. FREDRIK ROSING BULL, deceased, Oslo, Norway, by Ernst Hilditch and Ulrich Strøm, executors, Oslo, Norway. Filed Feb. 18, 1926, Serial No. 89,265, and in Norway Feb. 20, 1925. 1 Claim. (Cl. 101—93.)



An automatic printing machine for recording statements or indications given by the perforation of cards, paper strips and the like, in which the types are placed on the circumference of wheels mounted on a shaft which rotates synchronously with the passing of the card or the like by a contact device, said type wheels being arranged on the shaft in such a manner to permit said wheels to remain in a fixed stationary position during partial rotation of the shaft.

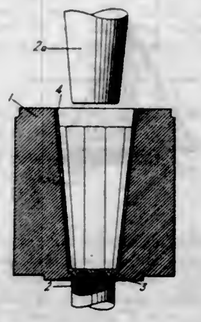
1,675,970. FLYING TOY. JOSÉ CALVO, New York, N. Y. Filed Jan. 18, 1927. Serial No. 161,833. 6 Claims. (Cl. 46—50.)



5. A flying toy comprising a projectile having head, tail and wing portions, the tail portion being crimped longitudinally to form a depending skid fin tapered forwardly and having side portions diverging upwardly.

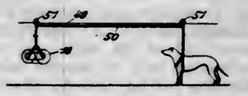
1,675,971. APPARATUS FOR FORMING GLASSWARE. VIRGIL O. CORNWELL, Columbus, Ohio, assignor to The Federal Glass Company, Columbus, Ohio, a Corporation of Ohio. Filed Sept. 18, 1925. Serial No. 57,179. 4 Claims. (Cl. 49—72.)

1. In the art of molding in block mold, the combination of a block mold having an integral body, a valve structure in the base of the mold and a depression formed in said valve and spaced from the joint between



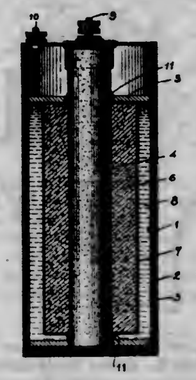
the valve and mold body for imparting a smooth projection to the base of the article.

1,675,972. COURSING TRACK. WALTER CECIL COX, Denver, Colo. Filed Aug. 11, 1923, Serial No. 656,961. Renewed Dec. 12, 1927. 25 Claims. (Cl. 272—4.)



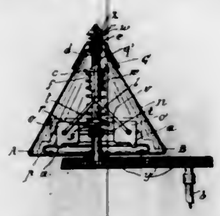
1. In a course of the character described, a lure supporting element adapted to move along the course, and means associated with said element for its propulsion by movement of an animal in its natural pursuit of the lure.

1,675,973. BATTERY CELL. HENRY CSANYI, New York, N. Y., assignor to Lee Klopman and William W. Huselton, New York, N. Y.; Samuel Lebson, executor of said William W. Huselton, deceased, assignor to Dry Storage Battery Corporation, Philadelphia, Pa., a Corporation of Delaware. Filed Sept. 17, 1924, Serial No. 738,247. Renewed May 19, 1928. 1 Claim. (Cl. 136—138.)



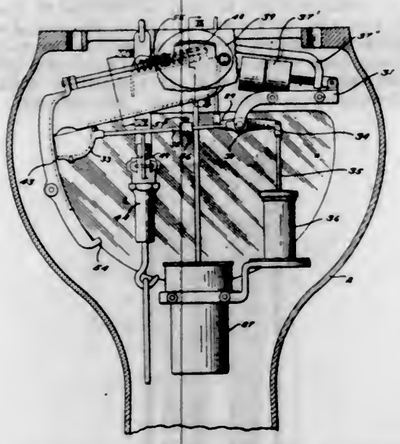
A battery cell including a negative electrode of metal, a positive electrode of carbon, an electrolyte including ammonium chloride, and a depolarizer of carbon, manganese hydroxid, manganese dioxid, ammonium chlorid and aluminum chlorid in substantially the proportions specified.

1,675,974. SPEED-INDICATING DEVICE. PIERO GAMBAROTTA, Quinto al Mare, Italy. Filed Dec. 12, 1924. Serial No. 755,539. 4 Claims. (Cl. 116—57.)



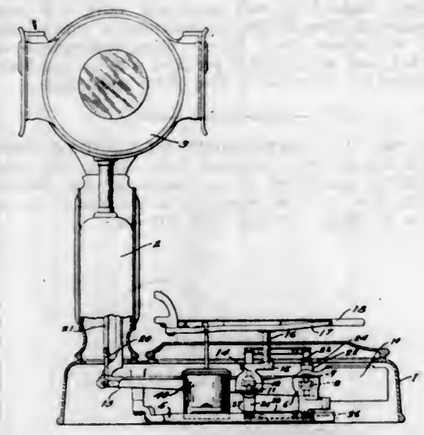
4. A speed indicating device for vehicles comprising a hollow shaft, means for gearing said shaft to a moving part of the vehicle, an indicating body loosely mounted on said shaft, radial arms fixed to said shaft, weights slidably mounted on said arms, a collar slidable on said shaft connected by links to said weights, longitudinal slots in said shaft, a rod slidable in said hollow shaft and having pins on one end projecting through said slots, the other end of said rod being threaded, and projecting beyond the end of said shaft, a nut on the threaded end of said rod, a second collar slidable on said shaft and mounted on said pins, a spring interposed between said collars, said weights being adapted to slide outwardly against the action of said spring as their speed of rotation increases and to engage said indicating body when their speed extends a predetermined limit, and a member clamped between the adjusting nut and the adjacent end of the shaft, and extending outside of the indicating body to provide means for determining whether the gearing between the shaft and the moving part of the vehicle is functioning.

1,675,975. COIN-OPERATED WEIGHING SCALE. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed June 9, 1924. Serial No. 718,785. 4 Claims. (Cl. 194—47.)



1. In a device of the class described, in combination, an arm adapted to be moved downwardly by the weight of a coin, a connecting member consisting of two sections longitudinally movable relatively to each other, a dog pivoted to one of said sections and extending to a position under said arm, means whereby said dog is moved from position under said arm by relative movement of said sections, and resilient means yieldably holding said sections against relative movement.

1,675,976. WEIGHING SCALE. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Oct. 18, 1926. Serial No. 142,218. 7 Claims. (Cl. 265—71.)

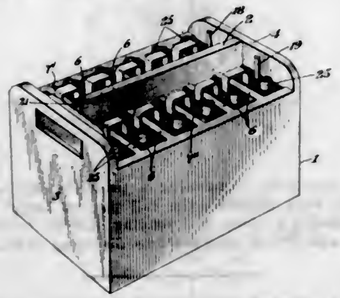


1. In a device of the class described, in combination, a frame, a lever fulcrumed thereon, said lever having a load pivot, a platform support carried thereby, and check links connecting said platform support and said frame above and below said load pivot.

1,675,977. PROCESS OF MAKING SOLVENT OIL. SATOYASU IYMORI and KOJI SUZUKI, Tokyo, Japan, assignors to Zaidan Hojin Rikagaku Kenkyujo, Tokyo, Japan. Filed Aug. 4, 1923, Serial No. 655,761, and in Japan Nov. 1, 1922. 2 Claims. (Cl. 203—4.)

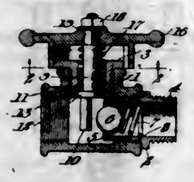
1. In a process of producing an oil suitable as an organic solvent from resinous materials present in coniferous woods, the steps consisting in mixing such material with an acid earth and heating the mixture at about 500° C. until decomposition occurs.

1,675,978. STORAGE BATTERY. RAYMOND A. KLOCK, Rockaway Beach, and THEODORE B. ENTZ, Brooklyn, N. Y., assignors, by mesne assignments, to Gould Storage Battery Company, Inc., a Corporation of New York. Filed Dec. 23, 1922. Serial No. 608,607. 32 Claims. (Cl. 136—166.)



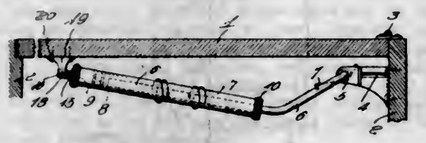
1. In a storage battery, the combination of a container having therein a plurality of battery units, each unit comprising a positive and negative plate and electrolyte, a sealing compound sealing the tops of the units, a vent tube opening a substantial distance above said sealing compound, and partitions secured to and extending between opposite walls of the container and extending into the sealing compound and projecting above the level of the upper surface of the same so as to prevent leakage of the electrolyte from the terminals of a unit on one side of a partition to those on the other side.

1,675,979. VALVE. FRANK J. LAIRD, Butte, Mont. Original application filed Dec. 11, 1925, Serial No. 74,858. Divided and this application filed Dec. 1, 1926. Serial No. 151,966. 7 Claims. (Cl. 251—132.)



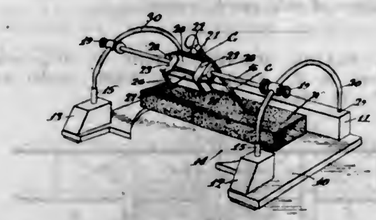
1. In a valve, the combination with a casing having a valve seat and a ball valve for cooperation with said seat, of a shaft having an enlarged inner head, a valve actuating crank arm projecting from said enlarged head, a counterbored passage in said casing for rotatably supporting said shaft, packing between the transverse wall of said passage and head, packing material in the outer counterbore of said passage, operating means secured to said shaft, and yielding means between said operating means and said packing material for compressing the latter.

1,675,980. SILENT DOOR CLOSER. HARRY J. LEBHERZ, Frederick, Md., assignor to The Everedy Company, Frederick, Md., a Corporation of Maryland. Filed Oct. 15, 1927. Serial No. 226,450. 4 Claims. (Cl. 16—66.)



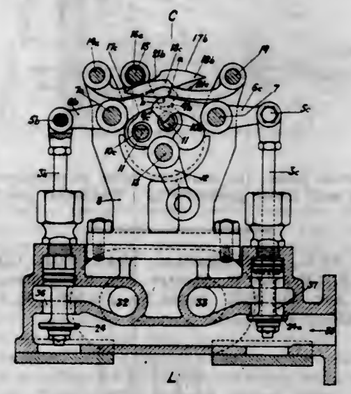
1. In a pneumatic door check and closer a pneumatic cylinder, a reciprocatory piston operative therein, an end cap secured to said cylinder, a central portion on said end cap having internal screw threads therein and a screw threaded plug engaging the screw threads in said central portion of said end cap and having means for establishing a pivotal connection with a door at the end thereof.

1,675,981. GRAVER-SHARPENING AND FACET-CUTTING MACHINE. JOHN W. LEES, Los Angeles, Calif. Filed Aug. 9, 1926. Serial No. 128,123. 3 Claims. (Cl. 51—157.)



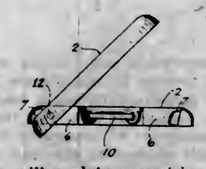
3. A device of the class described comprising a support, an abrasive element, a guide bar mounted upon said support, a work-holder comprising a block through which the guide bar slidably extends, an inverted U-shaped member arranged over the block having its parallel arms engaging the ends of the block and portions engageable upon the sides of the block, spring means urging said U-shaped member into clamping relation against the block, and pivoted members mounted upon the inverted U-shaped member engageable upon the guide bar to force the U-shaped member out of clamping engagement with the block against the action of said spring means.

1,675,982. CONTROL OR CHANGE-OVER VALVE MECHANISM. JOHN LYALL, Leith, Scotland. Filed Apr. 26, 1926, Serial No. 104,752, and in Great Britain Apr. 28, 1925. 6 Claims. (Cl. 121—138.)



1. Control valve mechanism for actuating a plurality of valves, one or more of which require to be opened, whilst the remaining valve or valves remain closed, and wherein the positions of the valves require to be frequently reversed, comprising an operating lever connected to each valve, a series of closing-cam levers, each cooperating with one of the levers, a cam on each lever, an opposite cam on the corresponding closing-cam lever, and a rocker carrying rollers for cooperating with said cams.

1,675,983. FLOOR OR CEILING PLATE. WALTER MACRISTY, New Britain, Conn., assignor to Keeney Manufacturing Company, Newington, Conn., a Corporation of Connecticut. Filed Mar. 19, 1926. Serial No. 95,919. 15 Claims. (Cl. 126—317.)

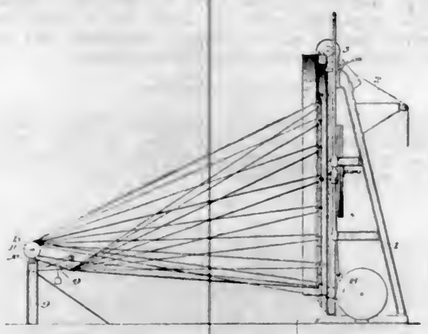


1. A floor or ceiling plate comprising two semi-circular sections having detachable interlocking devices on the front ends thereof and a pivotal connection on the rear ends thereof, said devices and pivotal connection being so constructed and arranged as to prescribe relative movements of said sections in substantially parallel paths in planes perpendicular to the plate and the pivot axis.

1,675,984. APPARATUS FOR REMOVING FABRIC STRIPS FROM CUTTING MACHINES. HARVEY F. MARANVILLE, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 10, 1920. Serial No. 372,988. 8 Claims. (Cl. 164—34.)

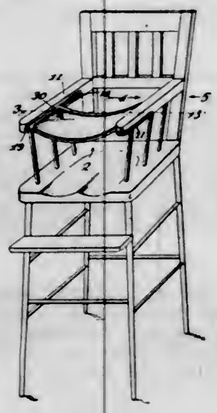
1. In a device of the character set forth, the combination of a machine for cutting fabric on an angle and

while in a vertical plane, of a conveyor to receive the fabric after it has been cut and to support the fabric in



a horizontal plane, the conveyor being so constructed as to bring said fabric gradually to a horizontal position.

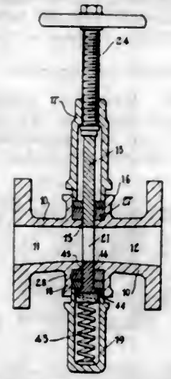
1,675,985. ADJUSTABLE TRAY FOR CHILD'S CHAIR. HAROLD W. MARTIN, San Bernardino, Calif. Filed Aug. 10, 1927. Serial No. 211,936. 11 Claims. (Cl. 155—127.)



1. In the art described, a chair having arm rests with guideways secured thereto, a tray slidable in said guideways, one of said guideways having a longitudinal slot, a latching means connected with the tray and interacting with the guideways to adjustably latch the tray, and a holding device secured to the tray and extending through the said slot, the said holding device permitting the disengagement of the tray from the guideways and being adapted to retain the tray connected to one of the arm rests.

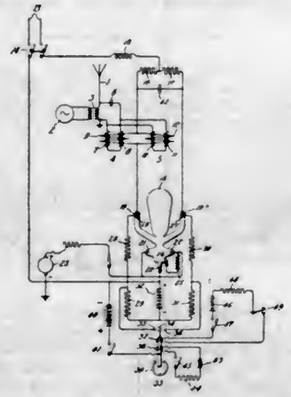
1,675,986. FULL-WAY OR GATE VALVE. HAROLD LYALL MASON, London, England. Filed Oct. 5, 1927, Serial No. 224,078, and in Great Britain June 7, 1926. 3 Claims. (Cl. 251—59.)

1. A valve of the class described, comprising a body having inlet and outlet bores thereto, a gate valve provided with a through passage registrable with said bores in the completely open position of the valve, a plurality of sections of packing arranged around said inlet and outlet bores of the body for preventing leakage, said packing being in sections which are separably compressible and enclosing extensions on said valve, and an independently movable follower for protecting the packing and movable between said extensions, with



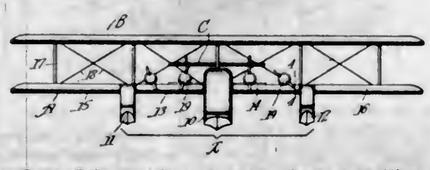
yielding means interposed between said follower and a rigid member connected with the casing.

1,675,987. RADIOTELEGRAPHY. ALBERT H. MITTAG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 2, 1926. Serial No. 99,364. 9 Claims. (Cl. 250—19.)



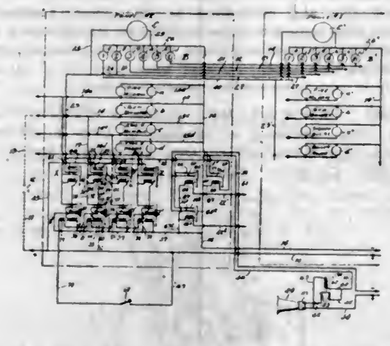
1. The combination of an antenna, a source of high frequency current connected to said antenna, means connected to said antenna for controlling the energy transmitted between said source and said antenna, a vapor electric device provided with a cathode and, with a plurality of anodes one of which is connected to said control means, and means for causing current to be transferred to and fro between said anodes for controlling the impedance of said control means.

1,675,988. FLYING MACHINE. JOHN P. O'CONNOR, New York, N. Y. Filed May 22, 1928. Serial No. 279,627. 18 Claims. (Cl. 244—2.)



1. In a flying machine, a main plane comprising an integral medial section, a main hull disposed centrally of said medial section, a lateral hull at each end of said medial section, said medial section extending uninterruptedly across all of said hulls and the ends thereof terminating at the outer sides of said lateral hulls, all of said hulls being structurally merged with said medial section to form therewith a substantially integral sustaining unit and all of said hulls being normally adapted to afford simultaneously effective support when the machine is at rest, and a main wing section springing from each end of said medial section, said lateral hulls being nearer the main hull than to the outer ends of said wing sections.

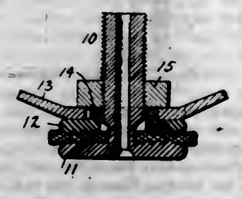
1,675,989. ANNUNCIATOR SYSTEM. LLOYD E. ONEAL, East Orange, N. J., assignor to Chas. Cory & Son, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 27, 1922. Serial No. 603,546. 5 Claims. (Cl. 177—311.)



1. An annunciator mechanism for power plants or the like comprising signalling means operative for indicating an abnormal condition in plant apparatus, designating means for designating the presence of an abnormal condition signal indication, and clearing means operative for clearing the designating means only if the abnormal condition persists, and for clearing both the signalling means and the designating means if the abnormal condition disappears.

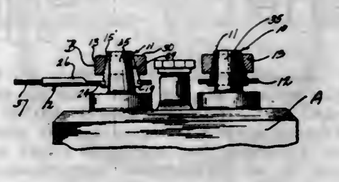
5. An annunciator unit for power plants or the like comprising signalling means, a normally open circuit therefor, a unit designating means, a normally open circuit therefor, a third normally open circuit including a relay, said relay controlling the opening and closing of said second circuit, means operated by an abnormal condition of plant apparatus for closing said first and third circuits and for energizing the relay to close the second circuit, and clearing means for deenergizing the relay to open the second circuit to clear the designating means.

1,675,990. TIRE VALVE. MARSHALL J. PAYNE, Staunton, Va., assignor to The Payne Valve Corporation, Staunton, Va. Filed Aug. 16, 1920. Serial No. 403,794. 3 Claims. (Cl. 152—12.)



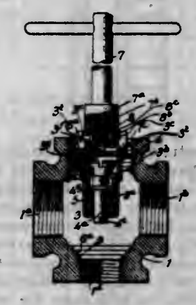
1. The combination of a valve stem, having a head within the tire, a washer on the stem outside the tire, the head and washer having complementary ridged and grooved, opposing surfaces, means to clamp the tire between such surfaces, means to maintain the alinement of the ridges and grooves of head and washer, a wing piece having a hole, and a thimble on the washer fitting loosely in the said hole the wing piece being free to move laterally of the thimble.

1,675,991. BATTERY CONNECTER. JOHN POLAND, Cascade, Mont., assignor of one-half to John Gorman, Belt, Mont. Filed Feb. 11, 1922. Serial No. 535,821. 1 Claim. (Cl. 173—259.)



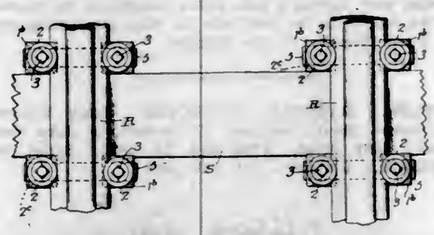
In a battery connecter the combination of a pair of complementary concavo-convex sleeve segments each being about 180° externally screw threaded from the top edge thereof and each having a segmental laterally extending flange at the lower edge thereof, said sleeve segments each gradually increasing in thickness from the top edge thereof adjacent the respective flange thereof, and a supporting member including a plurality of yieldable arms in split ring formation secured to the flanges of said sleeve segments to support the sleeve segments in a complementary sleeve providing relation with spaces at diametrically opposed facing edges thereof aligning diametrically with the split of the split ring, said supporting member having a wire receiving connecting portion thereon.

1,675,992. DRAIN VALVE FOR LAWN-SPRINKLING SYSTEMS. HOWARD B. SHERMAN, Battle Creek, Mich., assignor to H. B. Sherman Manufacturing Co., Battle Creek, Mich., a Corporation of Michigan. Filed Nov. 21, 1927. Serial No. 234,709. 6 Claims. (Cl. 137—34.1.)



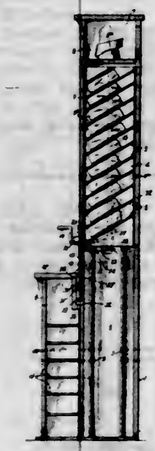
4. In a lawn sprinkling apparatus; the combination of a unit comprising a hollow body provided with openings for connection with a water supply and a sprinkler head and a lower opening for the reception of a drain valve; with a removable drain valve casing in the lower opening of the body having slots in its upper end for the engagement of a tool or wrench, and an internal groove near its upper end adapted to be engaged by said tool for inserting and removing the drain valve when the unit is in position in the ground; said casing having a valve seat below the said slots; an inwardly opening valve in said casing; and a screen in the casing below the slots and above the valve.

1,675,993. RAILROAD-RAIL FASTENING. JOSEPH ASKIN SILVER, New York, N. Y. Filed Dec. 13, 1926. Serial No. 154,458. 14 Claims. (Cl. 238—314.)



1. In combination with a railway tie, a rail fastening comprising members adapted to fit under the tie at opposite sides of the rail, said members having sockets; opposed clamps adapted to engage opposite sides of the rail base; transverse links adapted to extend under the rail; nuts in the sockets; and bolts transfixing the clamps and links and engaging the nuts.

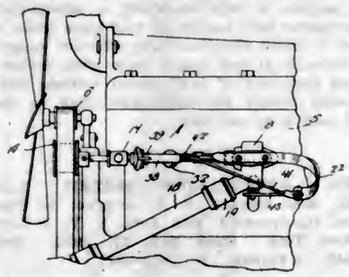
1,675,994. COIN-CONTROLLED VENDING MACHINE. GOODWIN B. SMITH, New York, N. Y. Filed Nov. 5, 1925. Serial No. 67,079. 10 Claims. (Cl. 312—95.)



1. In a coin controlled vending machine the combination of a cabinet having a door aperture and a door normally closing the same, a container having article receiving pockets, mounted for vertical reciprocation within said cabinet, means for vertically reciprocating said container to selectively align said compartments with said door aperture, means for moving said door to open position to discharge the contents of a selected compartment, and means controlled by said door for locking said container against movement while said door is in open position.

1,675,995. GOVERNOR-CONTROLLED MECHANISM FOR INTERNAL-COMBUSTION ENGINES. HENRY G. STEARNS, Arapahoe, Nebr. Filed Feb. 19, 1927. Serial No. 169,598. 4 Claims. (Cl. 123—195.)

1. A device of the class described including a water pump mechanism, a bracket arm extending forwardly from the water pump mechanism and terminating in a bearing sleeve, a propeller shaft for the water pump mechanism journaled in the bearing sleeve, a belt engaging pulley on the shaft, a speed responsive means controlled by the shaft and associated therewith, a bar mounted intermediate its ends on the water pump mechanism and having its rear end curved outwardly and forwardly, a bell crank lever pivoted in the extremity of the curved rear end of the bar, the forward end of the bar



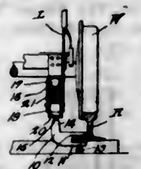
being twisted and bifurcated, a lever pivoted in the bifurcated end and controlled by the speed responsive means, a link structure between the two levers, and a rod associated with the bell-crank lever for controlling a throttle valve.

1,675,996. CABLE CLAMP. JAMES S. TAYLOR, Ponca City, Okla., assignor of one-half to Lory J. Mildren, Ponca City, Okla. Filed Oct. 22, 1926. Serial No. 143,690. 7 Claims. (Cl. 24—135.)



1. A cable clamp comprising a supporting body having spaced forwardly extending flanges, a pair of jaw constructions arranged on the body between said flanges, one of each of which bears on one of each of said flanges, said jaws and flanges being constructed to pivotally support the jaw constructions on definitely spaced axes, the jaws having the facing surfaces thereof provided with clamp receiving recesses, and means for moving said jaw constructions together or away from each other for clamping or releasing a cable with respect to said cable receiving recesses, the cable receiving recesses when in a cable clamping and receiving position having the center of said cable receiving recess disposed forwardly of a straight line drawn between the pivot axes of said jaw construction with the straight line eccentrically intersecting said cable receiving recess.

1,675,997. CROSSING SIGNAL. JOHN T. TULLIS, Dallas, Tex., assignor of one-half to James A. Plotner, El Dorado, Ark. Filed July 12, 1926. Serial No. 121,924. 2 Claims. (Cl. 191—32.)



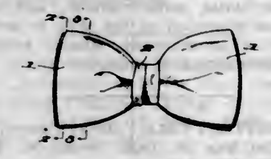
1. In a crossing signal for railways, the combination with a track rail constituting a conductor, of forked brackets for straddling the base flange of the rail, means for insulating the brackets from the rail, means carried by the brackets for binding them to the rail, and a trolley wire carried by the brackets at one side of and at substantially the same level as the top of the head of the rail.

1,675,998. SEPARABLE FASTENER. ROLLO F. WALTERS, Detroit, Mich., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Original application filed July 24, 1924, Serial No. 727,960. Divided and this application filed Feb. 26, 1925. Serial No. 11,704. 11 Claims. (Cl. 24—213.)



1. A fastener unit comprising, in combination, an attaching part, means integral with said attaching part for securing it to a suitable support and a laterally shiftable snap fastener part loosely assembled with said attaching part, said snap fastener part being shiftable to a limited extent in any direction transverse to the axis of said casing.

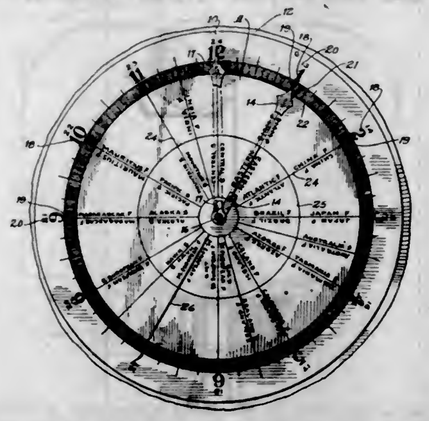
1,675,999. NECKTIE AND METHOD OF MAKING THE SAME. OTTO WEINSTEIN, Boston, Mass., assignor to Standard Neckwear Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1926. Serial No. 148,867. 9 Claims. (Cl. 2—151.)



1. In a bow necktie, a front facing piece across the front of the tie from end to end and continued around the opposite ends and at the rear of the tie and gathered together at the center and providing a bow tie with a plurality of walls on either side of the center, said tie being open from top to bottom between said double walls giving the appearance of a plurality of separate walls on either side of center, each end of the tie comprising a loop and the opposite ends being tucked inwardly away from the ends, and fastening means within the tie securing the tucked-in portion to prevent withdrawal of the same.

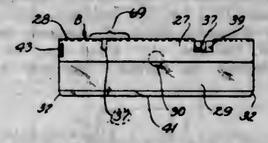
1,676,000. DIAL ATTACHMENT FOR CLOCKS. PHILIP L. WHITMAN, Halifax, Nova Scotia, Canada. Filed Jan. 29, 1926. Serial No. 84,724. 3 Claims. (Cl. 58—43.)

1. A dial attachment for clocks comprising, a fixed dial including the twelve hour delineations of a clock, and a dial coaxial and movable with respect to said fixed dial and having delineated thereon radial lines, a circular line dividing the movable dial into inner and outer sections, a diametrical heavy line to point to any of the delineations of the fixed dial and to indicate time and meridian for a certain selected standard, indicia in the inner section of the movable dial and associated with said radial lines to designate other standard times of localities that are on the half of the earth of which said meridian is the center, said indicia pertinent to the other standard times arranged relative to said heavy line so that those east of the said meridian are to one side of the heavy line and those west of the meridian are to the other side of said heavy line, indicia in the outer section of said movable dial and associated with said radial lines to indicate other standard times of localities that are on the opposite half from the first mentioned half of the earth, and markers associated with each of said indicia pertinent to other



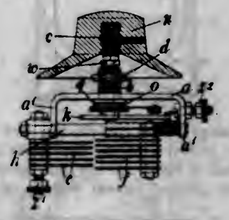
standard times to indicate whether the time is fast or slow relative to the selected standard.

1,676,001. BLADE. WILLIAM P. ARON, Dallas, Tex., assignor, by mesne assignments, to The Whisk Razor Corporation, Buffalo, N. Y., a Corporation of New York. Filed Mar. 7, 1927. Serial No. 173,464. 9 Claims. (Cl. 30—12.)



1. The razor blade comprising an element sharpened on one edge and having two symmetrically located notches in the other edge, said element having a hole therein, a rib adapted to be pinched over said notched edge and partially into said hole, said rib having an opening unsymmetrically located therein adapted to expose only one of said notches on both sides of the blade.

1,676,002. VARIABLE-CAPACITY ELECTRICAL CONDENSER. FRANK EDMUND BANCROFT, Longsight, Manchester, England, assignor to Ripaults, Limited, London, England. Filed Oct. 18, 1926, Serial No. 142,466, and in Great Britain Oct. 22, 1925. 8 Claims. (Cl. 175—41.5.)



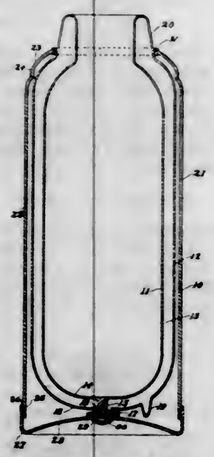
1. A variable electrical condenser comprising a set of fixed plates of substantially rectangular shape and a set of movable plates slidably mounted upon supports parallel to one pair of sides of said fixed set of plates, a plurality of springs tending to move said second set of plates relatively to the fixed set, a rotatable spindle carrying a knob and a cam, said cam being adapted to control the movements of the second set of plates.

1,676,003. MANUFACTURE OF ARTIFICIAL SILK. HARRY P. BASSETT, Cynthiana, Ky. Filed Dec. 15, 1925. Serial No. 75,644. 2 Claims. (Cl. 18—54.)



1. The herein described process which comprises dissolving cellulose and copper hydroxid in ammonium hydroxid, precipitating the solution through a bath of caustic alkali of substantially 40° Baumé strength, washing the precipitating material in a bath of caustic alkali of from 15° to 20° Baumé strength, and then washing it in a bath of caustic alkali of less strength.

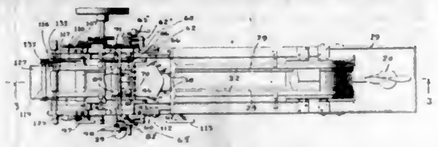
1,676,004. INSULATED VESSEL. CHARLES E. BULTMAN, Chicago, Ill.; Ida Mai Bultman, executrix of said Charles E. Bultman, deceased, assignor to Ernest D. MacDougall, Chicago, Ill. Filed Aug. 19, 1922. Serial No. 582,962. 32 Claims. (Cl. 215—13.)



1. An insulated vessel comprising two walls having a vacuum space between them, the walls being joined at the mouth, and a single means for centering said walls and permitting limited lateral motion of the inner wall.

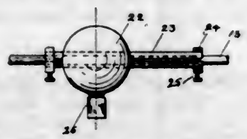
1,676,005. GUMMING MACHINE. EUGENE CONTI, Cliffside Park, N. J., assignor to Alexander Herz, New Rochelle, N. Y. Filed Dec. 8, 1921. Serial No. 520,837. 12 Claims. (Cl. 271—29.)

1. In a machine of the class described, the combination with a hopper for a stack of sheets of fabricated material, of a conveyor, means for partly withdrawing sheets from said hopper, oscillatory means for depressing the partly withdrawn sheets into engagement with the conveyor



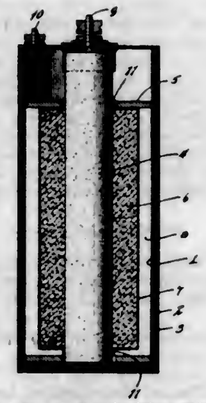
in overlapped relation, and means for moving the roller out of the path of movement of the sheet depressing means during its movement toward the conveyor.

1,676,006. ANTIOSCILLATING AND STRESS-REDUCING DEVICE FOR CABLES. LOUIS H. C. CROOK, Washington, D. C., assignor of one-half to Herman Jakobsson, Takoma Park, Md. Filed Oct. 18, 1926. Serial No. 142,302. 10 Claims. (Cl. 173—13.)



1. The combination with an aerial transmission line including a cable suspended to form a plurality of spans of an anti-oscillation device therefor; said device comprising a mass positioned on the cable to divide a span into sections of automatically variable lengths having incommensurable periods of oscillation.

1,676,007. BATTERY CELL. HENRY CSANYI, New York, N. Y. Filed May 26, 1926. Serial No. 111,682. 7 Claims. (Cl. 136—138.)

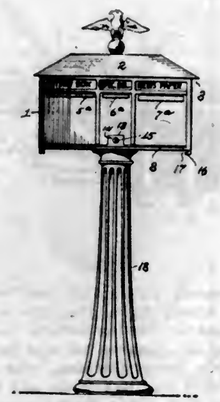


1. A dry cell having a depolarizing mixture including manganese hydroxide, and the chlorid of a tri-valent metal of a higher potential than the negative electrode of the cell.

1,676,008. MAIL BOX. GEORGE DE MAZIROFF, New York, N. Y. Filed Feb. 14, 1927. Serial No. 168,211. 2 Claims. (Cl. 232—32.)

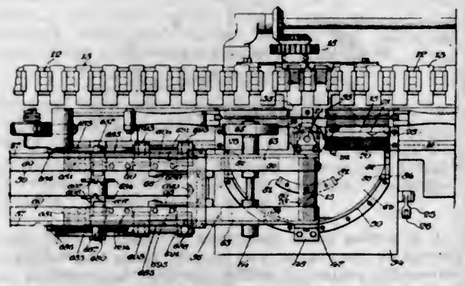
1. A mail box open on the lower side and provided with a slide bottom arranged to be drawn outwardly through one side of the box, said box having grooves in opposite walls in which the ends of said slide bottom are mounted and said slide bottom being provided at its rear

corners with pivot lugs which also operate in said grooves so that when said slide bottom is drawn out-



wardly to open the bottom of the box it may be then swung downwardly on said pivots to leave the bottom of the box entirely unobstructed.

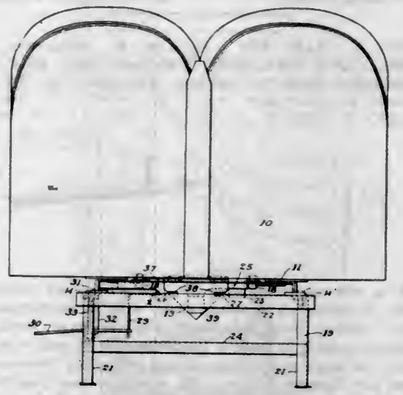
1,676,009. MACHINE FOR MAKING MATCH BOOKS. JOSEPH C. DONNELLY, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 17, 1926. Serial No. 155,384. 23 Claims. (Cl. 164—48.)



1. In a match-book machine having match strip cutting means, means for positioning match strips adjacent the cutting path, an oscillatory transfer element for moving match strips in flatwise condition through a horizontal arc to the positioning means, means for supplying match strips successively to said element, and means for operating said element in timed relation to the operation of the said positioning means.

1,676,010. CAR CHAIR. JAMES A. DUFFY, Fairmont, W. Va. Filed June 17, 1926. Serial No. 116,688. 4 Claims. (Cl. 155—96.)

1. A car chair comprising in combination, a base member, a seat member rotatably secured to said base member, and means on said members for simultaneously tilting said seat member about a horizontal axis and im-



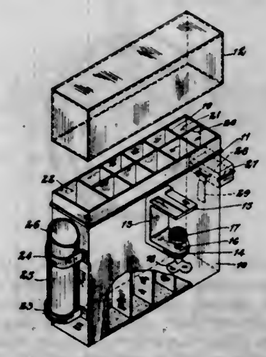
parting a translatory movement to said seat member relatively to said base member upon rotation of said seat member.

1,676,011. GLASS-CUTTING TABLE. ALBERT E. EVANS, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed June 9, 1926. Serial No. 114,738. 5 Claims. (Cl. 49—48.)



1. In combination with a glass cutting table, a plurality of roller units distributed over the area of the table and each comprising a lever, carrying two rollers with their axes of rotation at right angles to each other, and pivoted so that in one position of movement of the unit, one roller lies uppermost and in another position of movement, the other roller lies uppermost, and means for shifting the units.

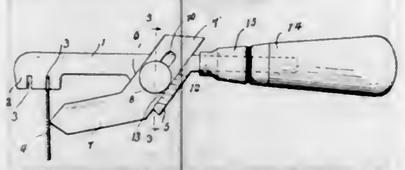
1,676,012. ANTISEPTIC CONTAINER FOR BARBERS' TOOLS. MICHAEL FASCETTA, New York, N. Y. Filed Feb. 21, 1928. Serial No. 256,029. 5 Claims. (Cl. 132—79.)



1. Container for barbers' tools comprising a casing, a means for securing the casing to a support, a plurality

of nested compartments formed in said casing, a means for allowing a sterilizing of said tools, and a means containing powder.

1,676,013. SAW SET. RICHARD R. FAULCONER and WILLIAM E. FAULCONER, Lewistown, Mo. Filed Nov. 22, 1926. Serial No. 150,028. 3 Claims. (Cl. 76—71.)



1. A saw-set comprising an elongated body having a head at its forward end formed with a tooth-receiving seat, leading from its lower edge, a gage having a forward portion extending longitudinally of said body beneath the same and a rear portion extending transversely from the forward portion and upwardly and rearwardly in diagonal crossed relation to the body, and means carried by said body to engage the last-mentioned portion of said gage an releasably hold the gage in a set position with the forward end thereof in desired spaced relation to the plane of said seat.

1,676,014. SAFETY LOCKING DEVICE. JACOB FECHER, Ludenscheid, Germany, assignor to Lüdenscheider Metallwerke Akt.-Ges. vorm. Jul. Fischer & Basse, Ludenscheid, Westphalia, Germany. Filed June 16, 1927, Serial No. 199,372, and in Germany Nov. 27, 1925. 1 Claim. (Cl. 292—318.)



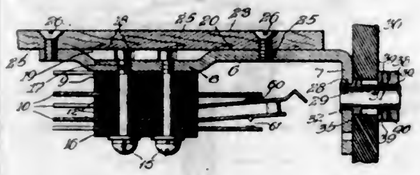
A locking seal including a casing having openings in the respective ends thereof, a locking spring inserted through one of the openings into the casing, a locking strip inserted through the opposite opening in the casing and having an interlocked engagement with the spring and adapted to have the projecting end cut off so that the portion engaged by the spring may be removed from the casing with the spring through the opening in which the spring is inserted.

1,676,015. SPORTING APPARATUS. OTTO FEICK, Schonau-on-the-Brenz, Germany. Filed June 30, 1926, Serial No. 119,763, and in Germany Nov. 7, 1925. 12 Claims. (Cl. 272—57.)



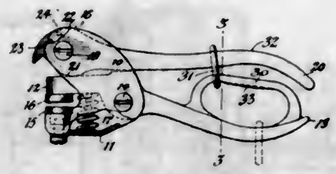
1. A sporting apparatus, including a pair of hoop-like elements, ties connecting and maintaining the hoop-like elements in spaced relation, and means so arranged about the circumferece of the hoop-like elements for receiving the limbs of a person that the latter may maintain an upright standing position during rolling motion of the hoop-like element, said last mentioned means including a foot plate and holder.

1,676,016. JACK. HERBERT H. FROST, Chicago, Ill., assignor, by mesne assignments, to Chicago Telephone Supply Company, Elkhart, Ind., a Corporation of Delaware. Filed Dec. 1, 1924. Serial No. 753,033. 3 Claims. (Cl. 179—96.)



3. In combination, an angular jack frame comprising a base and a thimble leg, a plug thimble secured at its inner end to said thimble leg, a flange integral with said thimble forming an abutment for said leg, the outer end of said thimble being threaded, said thimble being adapted to support said jack frame and panels of different thicknesses, said panels having openings therein to receive said thimble, and panel used abutting against said leg and said openings being of a diameter to snugly fit said thimble flange, washers adapted to fit over said thimble and engage with the panel, a nut adapted to be threaded on said thimble to secure said jack frame to said panel, said thimble flange being of less width than the length of the panel opening, whereby said jack frame may be secured to panels of different thicknesses, and jack springs secured to the jack frame base in alignment with said thimble.

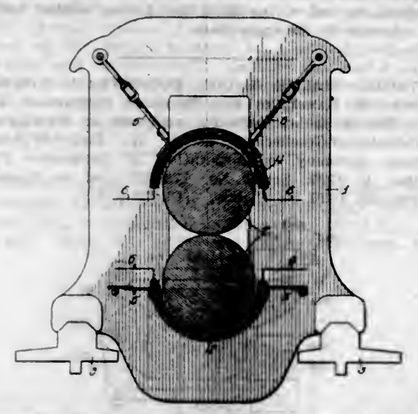
1,676,017. SEALING PRESS. CALDER C. GIBSON, Buffalo, N. Y. Filed Feb. 26, 1927. Serial No. 171,285. 5 Claims. (Cl. 89—91.)



1. A sealing press comprising a frame, a lower lever pivoted on the central part of said frame and having a rearwardly projecting handle, an upper lever pivoted on the upper part of the frame and having a cam engaging the lower lever and provided with a rearwardly projecting handle, cooperating dies arranged on the front part of said lower lever and the lower part of said frame, a longitudinal loop arranged on the inner side of the handle of said lower lever, and a retaining ring sliding with its lower part lengthwise on said loop and adapted to be slipped with its upper part lengthwise into and out of engagement with the outer side of the handle of said upper lever.

1,676,018. ROLL-HEATING MEANS. GORDON FOX, Chicago, Ill., assignor to Freyn Engineering Company, Chicago, Ill., a Corporation of Maine. Filed June 4, 1923. Serial No. 643,198. 4 Claims. (Cl. 80—41.)

4. In combination, a pair of rolls, means for rotatably supporting said rolls, a heater arranged in circumferential relationship with one of said rolls, but spaced therefrom, said heater being disposed out of obstructing relationship with the pass between said rolls, and means for



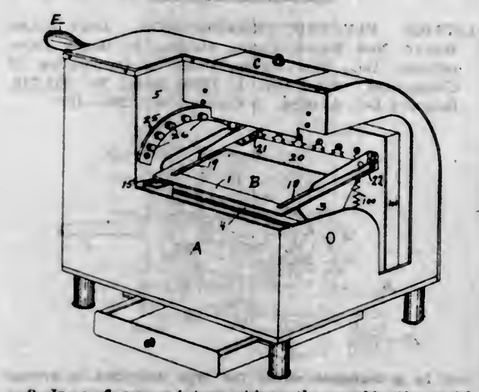
adjustably carrying said heater whereby the spaced relationship between said heater and its cooperating roll may be controlled.

1,676,019. SOOT-REMOVING DEVICE. ALEXANDER GIRTANNER, Bayside, N. Y., and JOSEPH J. MCNULTA, Summit, N. J., assignors to Girtanner Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 23, 1925. Serial No. 64,873. 8 Claims. (Cl. 110—165.)



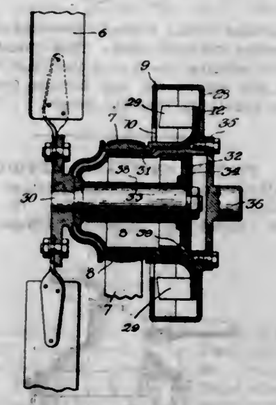
3. The combination with a dust collecting chamber having a limiting wall, of a tubular suction member provided with spaced inlets throughout its length, extending through said wall at the lower part thereof, caked dust breaking up means mounted upon and longitudinally extending above said suction member, and operating means therefor, external to said wall.

1,676,020. FINGERPRINT MACHINE. CHARLES F. GLASS and ALFRED CHARLES OTTO BOCK, Brooklyn, N. Y., and JOHN F. MILLIGAN, Ridgefield Park, N. J., assignors to Fingerprint Machine Corporation, a Corporation of New York. Filed Oct. 17, 1924. Serial No. 744,161. 13 Claims. (Cl. 41—4.)



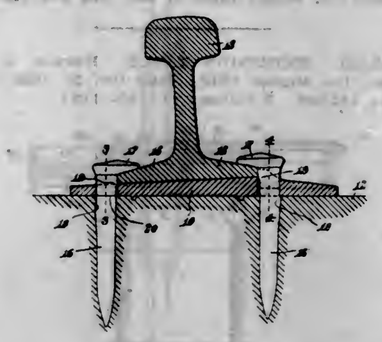
2. In a finger print machine, the combination with means for subjecting the paper to be impressed to a cycle of operations including pigmentizing of the print and fixing the pigment, of a motor operating said means throughout the entire cycle.

1,676,021. HEATER FOR MOTOR VEHICLES. JOHN H. GOULD, Detroit, Mich., assignor to McCord Radiator & Mfg. Co., Detroit, Mich., a Corporation of Maine. Filed Jan. 31, 1927. Serial No. 164,683. 3 Claims. (Cl. 230—241.)



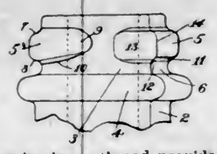
1. A combined fan and centrifugal blower assembly of the character described, comprising a blower casing, a rotor in said casing and having vanes with the air intake of the casing arranged concentric with said vanes and the air discharge of the casing being tangential to said vanes, said rotor having an integral portion extending outward therefrom through said air intake, a fan connected with said integral portion, and a driving pulley on said portion between the blower and the fan.

1,676,022. RAILWAY SPIKE. EDWARD B. GRIFFIN, Somerville, Mass. Filed Dec. 2, 1927. Serial No. 237,177. 3 Claims. (Cl. 238—295.)



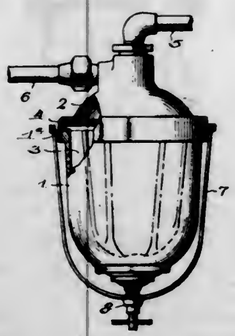
1. A railway spike formed with a head to engage the flange of a rail and having on two sides thereof shoulders perpendicular to each other and at different distances from said head, one shoulder being adapted to engage the under face of the thinnest part of a tie plate while the other shoulder is adapted to engage the under face of the thickest part of said plate.

1,676,023. GLASS THREAD CONTAINER. CHARLES HAMMER, Hollis Court Boulevard, N. Y., assignor to American Metal Cap Company, Brooklyn, N. Y., a Corporation of New York. Filed May 5, 1927. Serial No. 188,908. 20 Claims. (Cl. 215—44.)



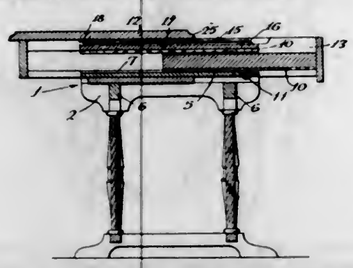
1. A container having a thread provided with a lengthwise extending inclined under face terminating in a straight face merging into a stop face, said thread having a tapered and curved top and bottom face, the latter having less angularity than the former.

1,676,024. FILTER UNIT AND METHOD OF MAKING SAME. AUGIE L. HANSEN, Chicago, Ill., assignor to Herbert S. Strausser, Chicago, Ill. Filed July 28, 1926. Serial No. 125,361. 8 Claims. (Cl. 210—169.



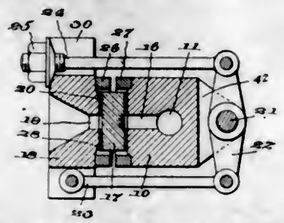
1. An article of manufacture for the purpose described, comprising a disc consisting of a ring and a circular plate having interfitting flanged edges, a skeleton frame member depending from said disc, and a covering of pliable material extending over said frame and having its marginal portion frictionally secured between the flanged edges of said ring and plate.

1,676,025. EXTENSION TABLE. HERMAN C. HANSON, Los Angeles, Calif. Filed Oct. 20, 1926. Serial No. 142,899. 5 Claims. (Cl. 45—113.)



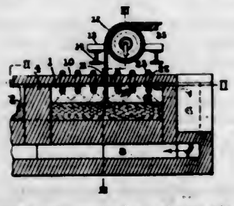
1. An extension table comprising in combination a plurality of guide beams, a supporting structure holding said beams fixed, a pair of slide bars connected to each beam to slide in opposite directions, a main table top connected to one of the slide bars, an open frame having a folding table leaf connected to the other slide bar, and means to slide the table top and open frame simultaneously in opposite directions, the folding leaf forming an end of the table and having sliding motion in reference to the open frame.

1,676,026. WATER GAUGE FOR STEAM BOILERS. OTTO H. HARTMANN AND HEINRICH PEPERKORN, Kassel-Wilhelmshohe, Germany, assignors to Schmidt'sche Heissdampf-Gesellschaft m. b. H., Kassel-Wilhelmshohe, Germany, a Corporation of Germany. Filed Mar. 9, 1927, Serial No. 173,855, and in Germany Feb. 20, 1926. 6 Claims. (Cl. 73—54.)



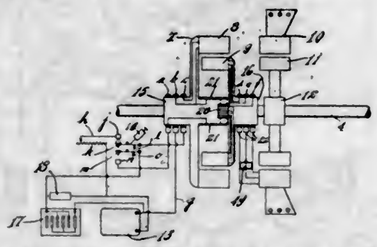
1. A water gauge for high pressure boilers, comprising a hollow member adapted to be connected to a boiler and having a longitudinally extending aperture, a glass fitted over said aperture, and a frame for retaining said glass in position, said frame consisting of members pivotally connected together end to end in series, with one of the intermediate frame members bearing on said hollow member.

1,676,027. PROCESS AND APPARATUS FOR DRAWING SHEET GLASS. GEORGE H. HARVEY, Rochester, Pa., assignor of one-half partnership interest to Edward A. Lawrence, Bellevue, Pa. Filed May 13, 1926. Serial No. 108,865. 15 Claims. (Cl. 49—17.)



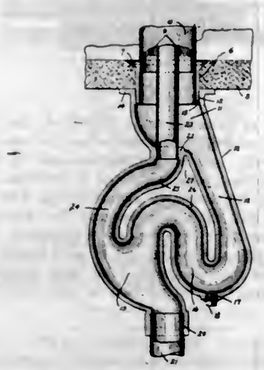
12. The process of producing sheet glass which comprises forming a film on a body of molten glass by applying a moisture spray to the top surface of the glass and then withdrawing said film in sheet formation.

1,676,028. ELECTRIC TRANSMISSION. JOHN ALLEN HEANY, New Haven, Conn., assignor to Heany Laboratories, Inc., New Haven, Conn., a Corporation of Connecticut. Filed Dec. 1, 1919, Serial No. 341,710. Renewed Dec. 6, 1926. 9 Claims. (Cl. 290—12.)



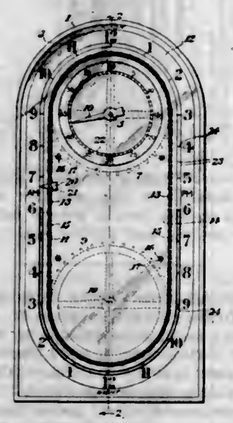
1. In a transmission of the type described, a driving member, a driven member, elements of a dynamo-electrical machine carried by said members and cooperating to transmit torque from one member to the other, a dynamo-electric unit arranged to apply torque to said driven member only at such times as the speed of the rotor thereof assumes a predetermined relation to the speed of the driven member, an electrical connection between said dynamo-electric machine and said dynamo-electric unit whereby electrical energy generated by the relative rotation of the elements of the dynamo-electric machine is supplied to said dynamo-electric unit.

1,676,029. TRAP. HERMAN E. HEINE, Milwaukee, Wis., assignor to Bradley Washfountain Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 29, 1927. Serial No. 187,595. 3 Claims. (Cl. 182—18.)



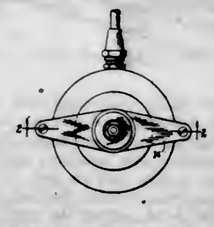
1. In a trap having its interior divided into a vent portion and a trapping portion, said trap also having an opening communicating with both portions, a vent pipe of less diameter than said opening and extending therethrough and connected with said vent portion.

1,676,030. TWENTY-FOUR-HOUR CLOCK. FRANCIS A. HELIN, Watertown, N. Y. Filed Sept. 17, 1926. Serial No. 136,113. 1 Claim. (Cl. 58—126.)



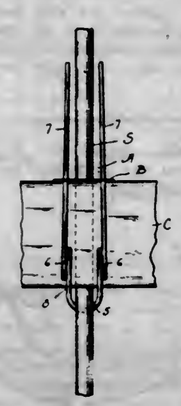
A clock of the type set forth comprising a clock movement including a continuously rotating hour arbor making one rotation in twelve hours; a driver wheel fixed to the arbor to rotate with it; an endless carrier trained around said wheel and guided in an elongated course, the length of said carrier being equal to twice the circumference of the wheel; an hour pointer attached to the carrier; and an hour dial marked with twenty-four hour graduations arranged in a continuous series extending around the course of the carrier and adapted to be traversed continuously by the hour pointer.

1,676,031. EXPANSION VALVE. CLARENCE M. HOLLEY, Highland Park, Mich., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio, a Corporation of Ohio. Filed Sept. 18, 1922, Serial No. 588,789. Renewed Nov. 30, 1925. 3 Claims. (Cl. 50—23.)



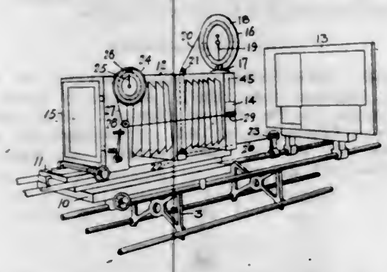
3. The combination with the high and low preasure lines of a valve device between the high and low pressure lines consisting of a body member having a chamber, one wall of which is flexible, a second chamber open to the first named chamber and into which both said high and low pressure lines open, a valve connected with the flexible member and movable thereby between the said openings to alternately open and close the same, means determining the pressure at which the valve may be moved to close the opening of the high pressure line to the chamber, and means determining the extent of reduction of pressure required to move the valve to close the opening of the low pressure line and open that of the high pressure line to the chamber.

1,676,032. HOLDER. JOSEPH O. HOWARD, Evanston, Ill. Filed June 1, 1926. Serial No. 112,778. 7 Claims. (Cl. 248—37.)



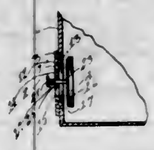
1. In a holder of the class described, the combination of a spring frame having a staff receiving passageway at its lower end and abutments intermediate its ends, and a tie plate having a staff receiving opening and having notches for detachably receiving the upper end of said spring frame.

1,676,033. APPARATUS FOR MAKING PHOTOGRAPHIC REPRODUCTIONS. EDWARD F. KINZLER, Pittsburgh, Pa., assignor of one-half to Robert Rawsthorne, jr., Pittsburgh, Pa. Filed June 6, 1925. Serial No. 35,321. 4 Claims. (Cl. 88—24.)



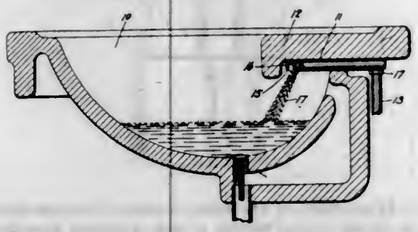
1. Photographic apparatus comprising a copy board, a camera having a lens frame movable relative to said copy board, a spring-tensioned drum on said camera frame, for indicating the relative positions of said frame and board, a wire having one end connected to said drum and partially wound thereon, and having its other end secured to an adjustable stop whose position may be varied with respect to the thickness of copy carried by said board.

1,676,034. VALVE. JOHN W. LANGDON, Walla Walla, Wash. Filed Oct. 5, 1925. Serial No. 60,387. 2 Claims. (Cl. 221—16.)



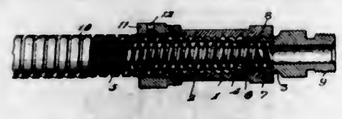
1. In a valve, the combination of a body portion, a ring raised in said body portion to form a valve seat and to provide a stiffener for said body portion, said body portion being provided with an influx and an efflux orifice contained within said ring, a closure positioned to register with said valve seat, and means to operate said closure.

1,676,035. NOZZLE. HENRY W. A. LEHNERT, New York, N. Y. Filed Oct. 3, 1924. Serial No. 741,521. 3 Claims. (Cl. 299—121)



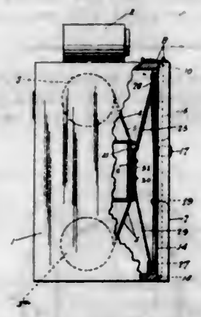
1. A fluid delivery nozzle comprising an elongated tubular member having one end closed by a stationary end wall, a discharge outlet in a side wall adjacent the closed end, a baffle spaced from the end wall and projecting from the side wall opposite the outlet and extending part way across the tubular member, the plane of the baffle intersecting the plane of the outlet on a line substantially removed from the inner edge of the outlet.

1,676,036. PIPE COUPLING. SAMUEL LEVITT, Brooklyn, N. Y., assignor to United Metal Hose Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 11, 1919. Serial No. 330,013. 5 Claims. (Cl. 285—72.)



1. In a device of the character described, the combination of a hose comprising a flexible metal tube enclosed in a flexible sheath, and a coupling secured to said hose comprising a coupling sleeve having a uniform internal thread extending continuously therethrough and screwed on said sheath but extending beyond the same, and a coupling plug member having an externally threaded portion screwed into the outer end of said sleeve between the same and the flexible metal tube, said member being recessed to receive the end portion of said flexible metal tube.

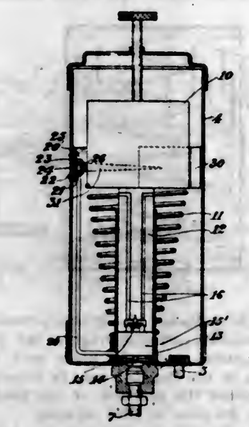
1,676,037. FILM-MOVING MECHANISM. GUNNE LOWKRANTZ, Binghamton, N. Y., assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed Feb. 18, 1927. Serial No. 169,376. 3 Claims. (Cl. 95—31.)



1. In combination with a camera, a back on said camera, a claw slidable on said back for moving a strip of film in said camera, and a presser pad on said back for engaging the film and guiding said claw.

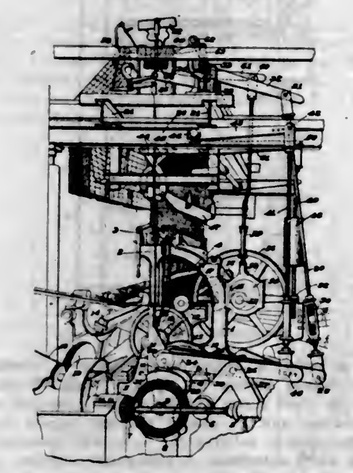
1,676,038. PUMP-MODIFYING MECHANISM FOR FUEL-FEEDING DEVICES. FRED B. MACLAREN, Jamaica, N. Y., assignor to Chester H. Braselton, New York, N. Y. Filed Apr. 1, 1922, Serial No. 548,867. Renewed June 16, 1927. 1 Claim. (Cl. 103—40.)

In a fuel supply system for internal combustion engines, the combination of a casing having an outlet port therein; pump mechanism within the casing, said pump mechanism including a cylinder; a piston movable within the cylinder; an inlet and outlet valves in the pump cylinder; a weighted mass attached to the pump piston adapted to operate the piston through movement of the casing; a valve attached to the casing wall within the casing; float operated means for opening and closing the valve; and a conduit intermediate the valve



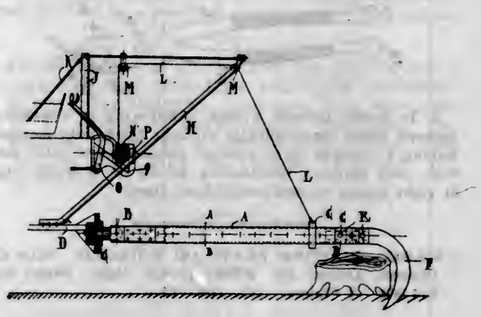
and pump cylinder, said valve being normally closed but adapted to be opened when the float is lifted by flow of liquid into the casing.

1,676,039. PILE-FABRIC LOOM. HOWARD MASON, Saxonville, Mass. Filed Dec. 16, 1926. Serial No. 155,286. 10 Claims. (Cl. 139—39.)



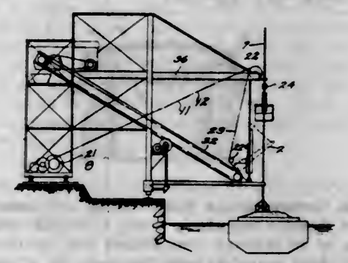
1. A loom for weaving figured pile fabrics having a multiplicity of figuring pile warp threads and ground warp threads, comprising, in combination, the lay, transverse pile wire mechanism, a jacquard having a griff for selectively controlling the pile warp threads, harness mechanism for controlling the ground warp threads, a cam for raising the griff and having a dwell portion for maintaining the griff raised and the lifted figuring pile warp threads under tension, and means for operating the lay to beat up the transverse pile wire and a weft thread simultaneously to the fell of the cloth during the dwell of the griff and consequent tension on the raised figuring pile warp threads.

1,676,040. TRACTOR-OPERATED STUMP-UPROOTING DEVICE. JULIEN MEUNIER, Troarn, Calvados, France. Filed Apr. 5, 1926, Serial No. 99,799, and in France May 20, 1925. 1 Claim. (Cl. 37—2.)



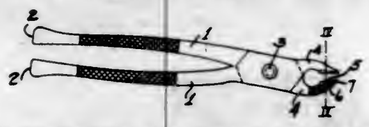
In a tractor-operated stump uprooting apparatus the combination with a tractor frame; of a shank pivotally connected at one end to said tractor frame for vertical movements relative thereto, a hook connected to the other end of said shank for engagement with a stump to be uprooted, a standard supported by said frame, a jib extending upwardly and rearwardly from said frame, a guy-rod extending from said standard and connected to the upper end of said jib, pulleys supported by said jib and rod, a flexible element engaged with said pulleys and having one end connected to said shank, a drum supported by said frame for receiving said flexible element, and means to operate said drum to wind said flexible element thereon and unwind the same therefrom to raise and lower said shank and hook.

1,676,041. UNLOADING MACHINE. SETURÔ NAGAO, Tokyo, Japan. Filed Dec. 16, 1925, Serial No. 75,705, and in Japan Dec. 17, 1924. 2 Claims. (Cl. 214—89.)



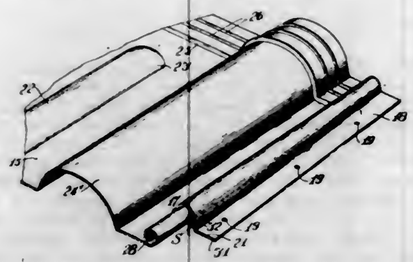
1. In an apparatus of the character described, the combination of a vertically movable grab, a pivoted chute adapted to swing into an inclined position intersecting the path of movement of the grab, a counterweight disposed above the grab and adapted to be moved thereby during its upward movement, means connecting said counterweight with said chute whereby the latter is normally retained in vertical position out of the path of the grab and is automatically released when the counterweight is raised, and cooperating means carried by said grab and counterweight for resiliently connecting them together whereby the grab will carry the counterweight with it during a portion of the downward movement of the grab.

1,676,042. DENTIST'S FORCEPS. JOHN J. OGDEN, Memphis, Tenn. Filed July 29, 1926. Serial No. 125,699. 6 Claims. (Cl. 32—34.)



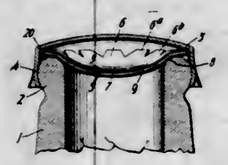
1. In dental forceps, a beak terminating in a member tapered along longitudinally straight lines, said member having a concave inner surface, and a convex outer surface, said surfaces terminating jointly in a knife edge at right angles to said longitudinal lines.

1,676,043. ROOFING PLATE OR SHINGLE. NILS G. OLSSON, Aurora, Ill. Filed Apr. 26, 1926. Serial No. 104,508. 3 Claims. (Cl. 108—17.)



2. A roofing shingle adapted for laying from the ridge down comprising a plate having a first interlocking bead formed along one vertical edge thereof, a second interlocking bead formed adjacent the opposite vertical edge thereof, an attaching flange extending laterally from said latter bead, and a tapering web portion joining said attaching flange to said latter bead.

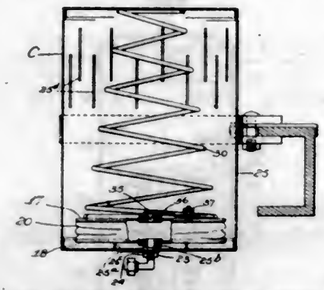
1,676,044. RECEPTACLE CLOSURE. HENRY OLT, New York, N. Y. Filed July 12, 1927. Serial No. 205,070. 4 Claims. (Cl. 215—38.)



1. In combination, a bottle having a rounded top, a closure therefor comprising a cap, a metallic gasket consisting of an inverted dome-shaped body portion having its periphery seated against the inner lip of the mouth of the bottle and a plurality of resilient fingers integral with the body portion and projecting radially therefrom, and cooperating with said cap to hold the body portion in its sealing position.

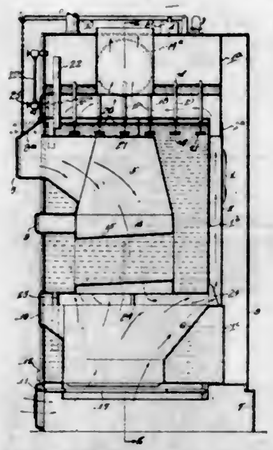
1,676,045. CONDENSER FOR AUTOMOBILE ENGINE RADIATORS. FRANK R. PERRY, Chicago, Ill. Filed Aug. 2, 1926. Serial No. 126,391. 10 Claims. (Cl. 257—25.)

1. In combination with the radiator of a circulatory cooling system of an internal combustion engine an expansible and reducible chamber mounted for fluid communication with the radiator cavity at the upper part of the latter, said chamber being yieldingly expansible by the pressure communicated from the radiator cavity upon heating and vaporizing of the circulatory fluid, said chamber having a port for liquid communication with the radiator at the lower part of said chamber and below the liquid level of the radiator, and being exposed to atmospheric cooling for condensing vapor which may pass



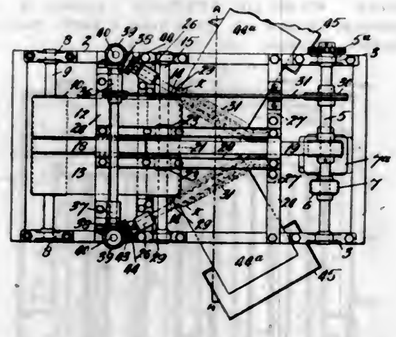
thereinto from the radiator, and pressure means for contracting the chamber corresponding to the pressure by which it is expanded; whereby upon such contraction liquid remaining in the chamber may be forced back into the radiator against the pressure of the head of liquid and the reduced pressure in said chamber.

1,676,046. STEAM AND HOT-AIR GENERATOR. BRACE A. PHILLIPS, East Lansdowne, Pa. Filed July 6, 1925. Serial No. 41,716. 9 Claims. (Cl. 122—218.)



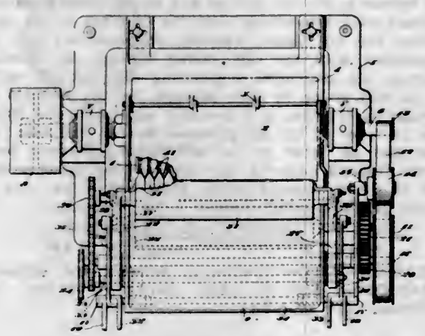
1. In a boiler, a water heating unit; a combustion chamber therein having an upward draft through its fuel bed; a lower steam generating unit mounted on the water heating unit in spaced relation thereto to provide a gas passage between the units and connected for receiving water therefrom; a combustion chamber in the steam generating unit having a downward draft through its fuel bed; an upper steam generating unit mounted above and spaced from the lower steam generating unit to provide a gas passage; conduits passing through said last named gas passage and connecting the upper steam generating unit with the lower steam generating unit; means on the conduits for causing the steam escaping through the conduits to atomize the water in the lower steam generating unit and carry it toward the upper steam generating unit, and a casing between the upper steam generating unit and the water heating unit, spaced from the lower steam generating unit to provide a passage for directing the gases coming from both chambers and through the first mentioned passage to the second mentioned passage.

1,676,047. MACHINE FOR CLEANING THE STEMS OF TOBACCO LEAVES. MORRIS GODFREY PHILIP PHILLIPS, London, England. Filed Nov. 11, 1927, Serial No. 232,591, and in Great Britain Apr. 30, 1927. 15 Claims. (Cl. 131—57.)



9. A machine for cleaning stems of tobacco leaves without disintegrating the stem or leaf comprising two belts, a third belt disposed between and in the plane of said first belts and extending beyond same, a belt cooperating with said third belt to grip the stems at or near the centre of their length, rotary brushes arranged in pairs upon each side of the line of travel of the stems, said brushes being inclined with respect to the belts in a manner such as to act upon the stems from the outer ends of the stems inwards, and said brushes being tapered at the end first engaging the stem, and rigid members pressing upon the belts at their point of engagement with the stems.

1,676,048. PAPER-PULP SHREDDER. FRANK B. PHILBRICK, deceased, Waterville, Me., by Herbert S. Philbrick, executor, Evanston, Ill., assignor to Waterville Iron Works, Waterville, Me., a Corporation of Maine. Filed Sept. 14, 1927. Serial No. 219,450. 14 Claims. (Cl. 92—20.)

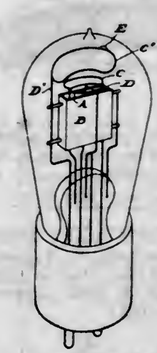


1. As an article of manufacture, a removable knife for paper pulp shredders having a blunt end bounded by three rectangularly arranged edges, and two principal divergent cutting edges adjoining said blunt end.

3. In a paper pulp shredder, a rotary drum having a plurality of projecting knives thereon, and a plurality of relatively stationary knives removably and adjustably held adjacent to said drum and so located that portions of the knives of the drum pass between portions of the stationary knives on rotation of the drum, the adjusting means for the stationary knives being so arranged that some of the knives may be adjusted differently from the contiguous knives, whereby the machine is adapted to shred the paper pulp into zigzag strips of any desired length.

18. In a paper pulp shredder, means comprising the combination of movable and stationary knives for shredding the pulp by a combined shearing and tearing action.

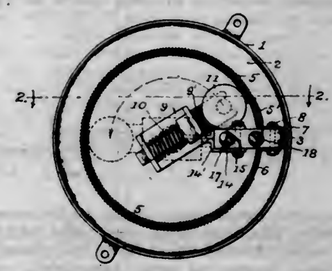
1,676,049. METHOD AND MEANS FOR INDUCTIVELY HEATING THE METALLIC PARTS OF INCLOSED ELECTRICAL DEVICES. ALEXANDER RAVA, New York, N. Y., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed May 29, 1924. Serial No. 716,632. 16 Claims. (Cl. 250—27.5.)



1. The method of removing gas from a conductive body inclosed within an envelop wherein said body is shielded by another conductive body from a magnetic field which consists in affixing to said first mentioned body a loop of conductive material forming a closed contour with said body and being insulated from other conductive bodies within said envelope heating said loop and said conductive body by a high frequency magnetic field to remove the gas therefrom removing said gas from said envelope and sealing said envelope.

16. In an electrical discharge device having electrodes inclosed within an envelope, one of the electrodes being shielded by another electrode from the influence of a magnetic flux, an exposed loop of conductive material attached to said shielded electrode and forming with said electrode a closed contour susceptible to the influence of a magnetic flux of a given direction, and a second loop of conductive material attached to one of the electrodes and exposed at an angle to said first mentioned loop, said second mentioned loop having a closed contour and being disposed so as to be susceptible to the influence of a second magnetic flux disposed at an angle to the first mentioned flux.

1,676,050. RHEOSTAT. THOMAS RHODUS, Chicago, Ill. Filed Dec. 18, 1925. Serial No. 76,141. 3 Claims. (Cl. 201—55.)



1. In a rheostat of the type described, the combination of an enclosing shell, an insulating member secured to said shell and located wholly in offset relation to the

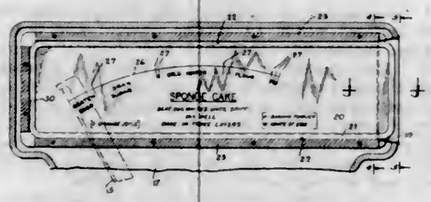
center of said shell, a curved resistance member secured to said insulating member, said insulating member extending from a point outside of to a point inside of the curve of said resistance member, a movable contact member adapted to make contact on said resistance member, and adjustment means for said contact member.

1,676,051. TENNIS RACKET. ROY H. ROBINSON, Chicago, Ill. Filed Dec. 15, 1923, Serial No. 680,956. Renewed Sept. 6, 1927. 36 Claims. (Cl. 273—73.)



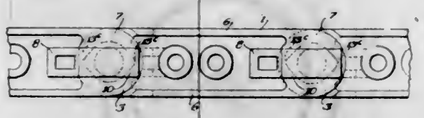
34. A tennis racket comprising a shell having stringing holes with turned-in edges and a filling material between said turned-in edges.

1,676,052. SCALE AND CHART THEREFOR. JOSEPH E. ROGERS, Mamaroneck, N. Y., assignor to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed Apr. 8, 1925. Serial No. 21,576. 9 Claims. (Cl. 116—129.)



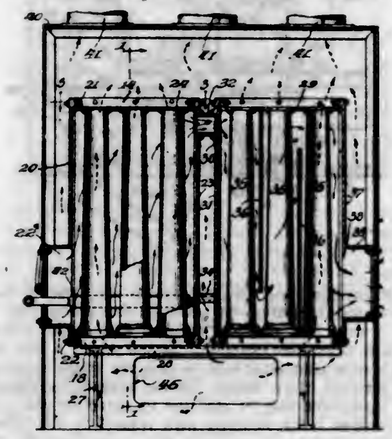
2. A weighing scale of the automatically counterbalanced type having a chart housing, a weight chart therein and a cooperating indicator and having in combination therewith a supplementary chart provided with progressive weight designating fields each field having associated therewith data instructive as to the kind of commodity or substance represented by a particular field, the aforesaid indicator being adapted to successively traverse the various fields of the supplementary chart and cooperate with the weight designation thereon.

1,676,053. CONVEYER-CHAIN LINK. CLAUDE RORABECK, Chicago Heights, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Oct. 27, 1924. Serial No. 745,987. 3 Claims. (Cl. 74—32.)



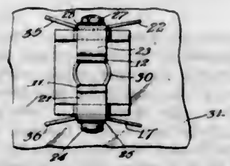
1. In conveyer chains, links having pintle connections at their ends; said links being constructed with pintle openings having bushings to receive the pintles; and bushings being constructed with characteristic sections extending throughout their lengths providing external surfaces of approximately continuous arcuate form but developed with curved sallents; and the link openings having a characteristic section which provides a plurality of re-entrant portions corresponding to the curvature of the salients on the bushings, whereby the bushings may be fixed in different positions in the links.

1,676,054. WARM-AIR FURNACE. ROBERT W. SATTERHOLM, Chicago, Ill. Filed June 4, 1927. Serial No. 196,448. 4 Claims. (Cl. 126—116.)



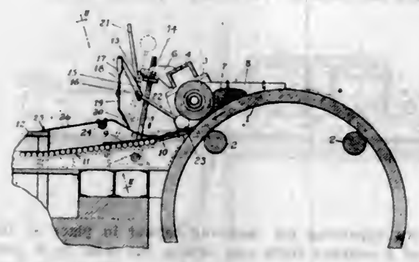
1. A warm air furnace embodying a casing having an air inlet and an outlet, a heating chamber within the casing and out of communication therewith, means supporting the chamber above the bottom of the casing, said heating chamber being spaced from the wall of the casing and embodying upright walls and top and bottom plates, said plates having alined openings therethrough, the openings in the upper plate being of a smaller diameter than the openings in the bottom plate, the side walls of the heating chamber diverging from the said bottom to the said top plate, vertical tubes arranged within the heating chamber, said tubes tapering from the bottom to the top thereof and having communication at their ends respectively with the openings in the said bottom and top plates, whereby communication will be established with the said casing through the heating chamber, the said tubes co-operating with the side walls of the said casing to form passages for the products of combustion tapering in a direction opposite to the direction of taper of the air passages through the flues, an inlet and an outlet to the said heating chamber both being disposed adjacent the base of the chamber but out of direct communication with each other, and a burner in the heating chamber.

1,676,055. JACK. NEWTON C. SCHELLENGER, Elkhart, Ind. Filed Dec. 30, 1925. Serial No. 78,284. 15 Claims. (Cl. 179—96.)



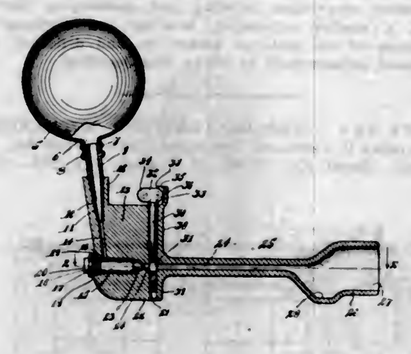
1. In combination, a jack having a generally U-shaped frame, and jack springs secured to said frame, said springs being normally in contact with each other adjacent the free ends of the legs of said frame.

1,676,056. PLATE-GLASS-ROLLING APPARATUS. LEE SHOWERS, Charlerol, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Jan. 29, 1927. Serial No. 164,483. 3 Claims. (Cl. 49—33.)



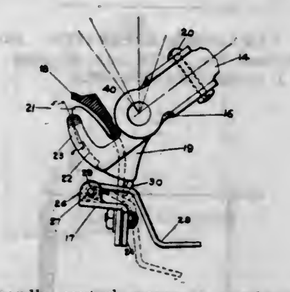
1. The combination with a pair of substantially horizontal glass sheet forming rolls and a runway in advance thereof and extending laterally, of means for guiding the advancing end of the glass sheet formed between the rolls onto the runway comprising, a plate in advance of the rolls, a support therefor to which the plate is hinged, and means for moving the plate up into the pass between the rolls with its lower side in contact with the lower roll, and for withdrawing the plate from said pass with the front end of the glass sheet which is formed supported on the plate.

1,676,057. MEDICAL INSTRUMENT. CARL WILSON SLUSSER, Chicago, Ill. Filed Apr. 21, 1927. Serial No. 185,372. 11 Claims. (Cl. 128—239.)



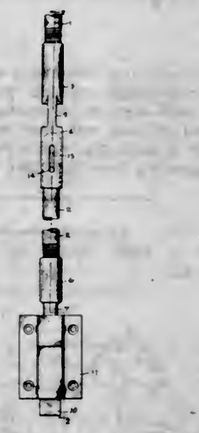
6. A device of the class described comprising a body member; a vaginal staff integral therewith; a cup on the end of said staff for receiving the cervix; means in one side of said cup into which secretions may flow; a passageway from said cup through said staff and body; valve means in said passageway for closing the same; said passageway adapted to have a vacuum produced therein; and means for introducing medicine through said passageway to said cup; a thumb hold on said valve for rotating the same; means for limiting the rotation of said valve; means for preventing said thumb hold coming in contact with the patient's body.

1,676,058. HANDLE CONTROL. DONALD G. SMELLIE, Maywood, Ill., assignor to The Hoover Company, North Canton, Ohio, a Corporation of Ohio. Filed Aug. 29, 1924. Serial No. 734,830. 5 Claims. (Cl. 306—13.)



1. In a handle control means, a member having a handle pivotally connected thereto, cam elements lying side by side and secured to said handle, and a latch mounted on said member and arranged to selectively cooperate with either of said cam elements.

1,676,059. DOOR-LATCH MECHANISM. CHARLES R. SMITH, Maplewood, N. J. Filed Aug. 2, 1923. Serial No. 655,177. 7 Claims. (Cl. 292—92.)



1. The combination of a rod mounted to reciprocate vertically and lengthwise and to gravitate normally to a lower position, bolts operatively connected with the upper and lower portions respectively of said rod and mounted to be shot and drawn simultaneously by the reciprocation of said rod, and a loose connection between said rod and one of said bolts permitting said bolt to move in unlatching direction without moving the other bolt, one of said members having a portion arranged to actuate the said bolt toward locking position by gravity.

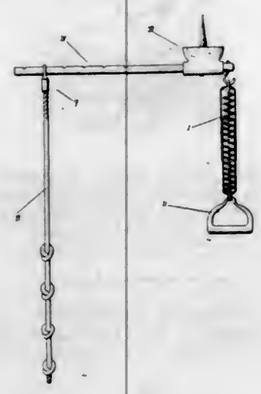
1,676,060. PRICE INDICATOR. BENJAMIN SPINELLI, Philadelphia, Pa. Filed May 2, 1927. Serial No. 188,256. 3 Claims. (Cl. 116—135.)



1. A price indicator comprising a scale including one set of indications representing dollars and another set of indications representing cents, a supporting member

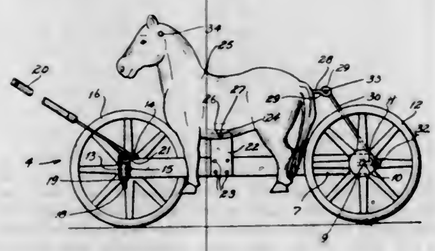
at each end of the scale on the front face thereof, a wire mounted on the supports to provide two parallel strands, and a marker movably mounted on each wire strand for coaction with an adjacent set of indications.

1,676,061. GYMNASIUM APPARATUS. ARTHUR C. E. STROM, Ortega, Fla. Filed Aug. 17, 1925. Serial No. 50,812. 1 Claim. (Cl. 272—57.)



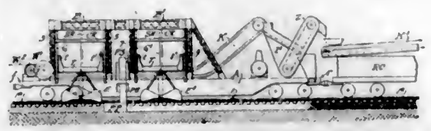
A chinning apparatus comprising a baseblock having a horizontally extending opening therethrough, a rod mounted in said opening, a spring member depending from one end of said rod, said spring member being provided with a hand grip, and a flexible cable (or rope or chain) depending from the other end of said rod.

1,676,062. TOY. SWAN J. SWANSON, St. Louis, Mo. Filed Dec. 9, 1926. Serial No. 153,673. 1 Claim. (Cl. 208—42.)



In combination with a vehicle comprising a frame member bifurcated at one end and having tubes secured to each one of the prongs of the bifurcated end of said frame, an axle passing through said tubes, said axle having a crank formed at its center between the prongs of said bifurcated end of said frame member, one wheel secured to each end of said axle, a front frame member having axles secured thereto on which are rotatively secured wheels, said front frame member rotatively secured to said frame member, a frame projection, secured to said frame member, an animal rotatively secured to said frame projection, a projection formed at one end of said animal, a crank arm secured rotatively to said projection and rotatively to said crank.

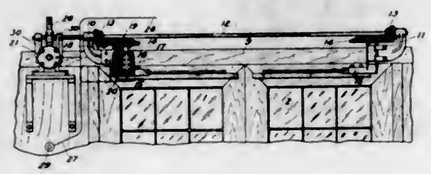
1,676,063. APPARATUS FOR REMOVING RAILROAD BALLAST. ERNEST W. TAYLOR, Cleveland Heights, Ohio, assignor, by mesne assignments, to Industrial Brownhoist Corporation, a Corporation of Ohio. Original application filed Feb. 21, 1927, Serial No. 169,967. Divided and this application filed June 22, 1927. Serial No. 200,672. 10 Claims. (Cl. 37—104.)



3. An apparatus for removing ballast in place at the side of a railroad track and raising the same to a platform, or car, on and adapted to traverse the track, comprising such platform, a trolley-track thereon pivotally fastened at one end to and above the floor of the same and leading over and downwardly along the side of the car to a predetermined distance above said material, a trolley on and adapted to traverse said trolley-track, an excavating bucket longitudinally pivoted to the trolley, means on the platform for raising and lowering the trolley along its tracks, and means thereon for operating the bucket through its designed uses and functions, substantially as shown and described.

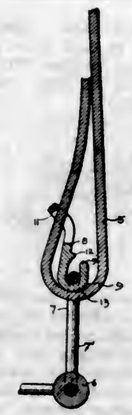
9. A method of removing ballast material in place between adjoining railroad tracks consisting in the separate and successive excavation of uniform and connected areas of a strip of said material along the side of one of said tracks, hoisting the material as so excavated to and upon a car movably mounted on said track and discharging the same at such point, alternately with such excavating, hoisting and discharging operations and without occupying clearance spaces for overhanging cars on the other of said tracks, breaking up and deflecting into the cavities left by said excavations the portion of said material in place between each successive cavity and said other ather track, and, simultaneously with each said successive excavating, hoisting and discharging operations, a similar excavating, hoisting and discharging operation of the material broken up and deflected, as aforesaid, substantially as shown and described.

1,676,064. CLOSURE-OPERATING MECHANISM. CHARLES E. VREELAND, Davenport, Iowa. Filed Apr. 1, 1925. Serial No. 19,982. 2 Claims. (Cl. 228—63.)



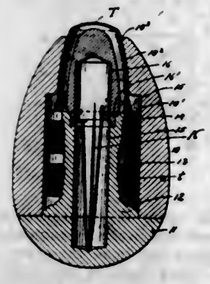
1. In apparatus of the character described, a reversible electric motor, a shaft rotated thereby, gears attached to the shaft and rotating therewith, gears driven by the aforesaid gears, shafts carrying the last named gears, arms operated by the last named shafts, tracks engaged and actuated by the arms, said tracks being connected to doors or the like, so that operation thereof will be caused by operation of the motor, a reversing switch for the motor, lugs on one of the last named gears adjacent the reversing switch and connecting the gear with the switch at predetermined positions for the stopping of the doors.

1,676,065. STRAP PROTECTOR. JAMES M. WALSH, Milwaukee, Wis., assignor to James M. Walsh Co., Milwaukee, Wis., a Corporation of Delaware. Filed Nov. 27, 1925. Serial No. 71,788. 2 Claims. (Cl. 24—183.)



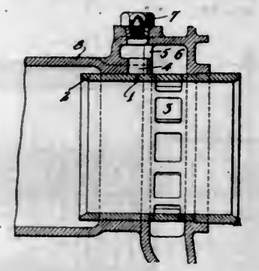
1. A strap protector, comprising a hook-like member having an eyed shank with a hook portion, said eyed shank portion extending outwardly at an angle from the hook portion for loosely receiving a strap and a ring loosely and non-removably held in the hook portion.

1,676,066. KIT FOR SEWING OUTFITS OR THE LIKE. CONRAD WOGE, New York, N. Y. Filed Apr. 11, 1927. Serial No. 182,748. 2 Claims. (Cl. 223—14.)



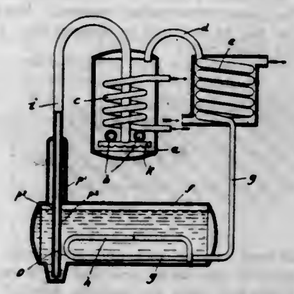
1. As an article of manufacture, a kit for a sewing or knitting outfit, comprising an open ended casing of rigid material, a lid frictionally engaging one of the open ends of said casing, a cylindrical extension in said lid formed with a hollow open at one end, said extension being adapted to project into said casing and having annular flanges to form spools for thread, the hollow of said extension serving as a receptacle for articles, such as needles or the like, a cap for closing the opening of said receptacle, and a socket at the open end of said casing conforming in shape and size with a thimble so that the latter can be inserted only from the inside of said casing and can be moved inwardly to open the lid.

1,676,067. LOCOMOTIVE AUXILIARY CYLINDER-PORT ARRANGEMENT. WILLIAM E. WOODARD, Forest Hills, N. Y. Filed May 2, 1925. Serial No. 27,431. 3 Claims. (Cl. 121—142.)



1. A locomotive auxiliary cylinder port arrangement comprising in combination a valve bushing, a starting port therein, an opening in the cylinder steam chest opposite said port through which said port may be cleaned, means for closing said opening and an oil receiving pocket between the starting port and the cleaning opening.

1,676,068. REFRIGERATING APPARATUS. GAUDENZ BAYER, Augsberg, Germany. Filed May 12, 1926, Serial No. 108,560, and in Germany May 22, 1925. 11 Claims. (Cl. 62—118.)

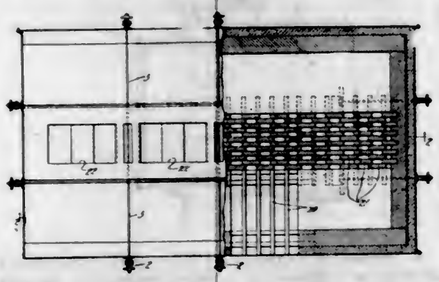


1. A refrigerating apparatus including a still-absorber, an evaporator, a condenser, and conduit means for delivering fluid from the evaporator to the still-absorber, said conduit means having a terminal portion at the lowest part of the evaporator and having a plurality of openings in the wall thereof, and at different elevations.

1,676,069. SEPARATING FROM FLUID HYDROCARBONS OTHER HYDROCARBONS WHICH PRECIPITATE AT LOW TEMPERATURE. NILS OLOF BACKLUND, Stockholm, Sweden, assignor to Bergedorfer Eisenwerk Aktiengesellschaft, Sande, near Bergedorf-Hamburg, Germany, a Corporation of Germany. Filed Jan. 28, 1927, Serial No. 164,377, and in Germany Aug. 16, 1926. 7 Claims. (Cl. 196—19.)

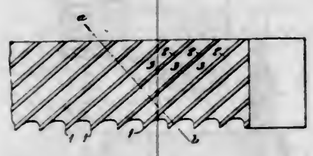
1. The process of separating from fluid hydrocarbons other hydrocarbons which on cooling, precipitate in solid form, which comprises adding to the mixture a liquid having a specific gravity higher than that of the heaviest of said other hydrocarbons and which is adapted to form a solution with said fluid hydrocarbons and is not adapted to form a solution to a substantial extent with said other hydrocarbons, such liquid being added in a sufficient proportion to form with said fluid hydrocarbons a solution having a specific gravity higher than that of said other hydrocarbons, and centrifugally separating the bulk of said solution from the bulk of said other hydrocarbons.

1,676,070. FURNACE FOR PRODUCING AND DILUTING PRODUCTS OF COMBUSTION. GUSTAVE BLUEMEL. Chicago, Ill., assignor of one-half to Drying Systems, Inc., Chicago, Ill., a Corporation of Illinois. Filed June 13, 1927. Serial No. 198,685. 7 Claims. (Cl. 34—18.)



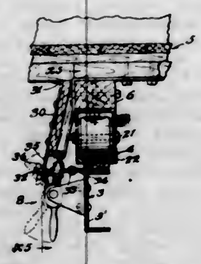
1. A furnace for the production of a heating medium, having a pair of chambers arranged side by side in parallel relation and having ports for providing communication therebetween located at the lower portions thereof, means for admitting fuel and air to one of said chambers for combustion therein and means for admitting air to the other of said chambers for diluting the products of combustion.

1,676,071. SAWING TOOL AND PLANE IRON. ERIC AUGUST BOLINDER, Stockholm, Sweden. Filed Dec. 24, 1925, Serial No. 77,650, and in Sweden Nov. 2, 1925. 1 Claim. (Cl. 143—133.)



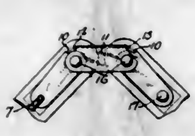
A blade-shaped sawing tool and plane-iron having at least one side of the blade provided with recesses and elevations extending from the cutting edge of the blade, the elevations having plane outer sides and coinciding with the cutting edge of the blade in such a manner as to form teeth the edges of which are perpendicular to the plane of the blade so that the teeth are adapted to cut like plane-irons or chisels.

1,676,072. DELIVERY APPARATUS. DON M. BROCKWAY, Los Angeles, Calif. Filed Dec. 12, 1924. Serial No. 755,416. 1 Claim. (Cl. 296—35.)



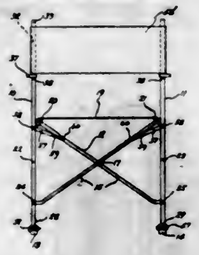
The delivery apparatus, comprising a wheel supported chassis, channel iron tracks on said chassis, a wheel supported body adapted to roll on said tracks, and onto said chassis, means to secure said body to said chassis, said means comprising quick grip shackles and shields, said shields being pivotally mounted on the underside of said body opposite the body wheels and depending therefrom to protect said shackle and wheels from the weather and means to secure in rigid position the free end of said shields.

1,676,073. COLLAPSIBLE BAR. NEWTON N. BROWN, Racine, Wis., assignor to Gold Metal Camp Furniture Manufacturing Company, Racine, Wis., a Corporation of Wisconsin. Filed July 28, 1924. Serial No. 728,544. 2 Claims. (Cl. 16—163.)



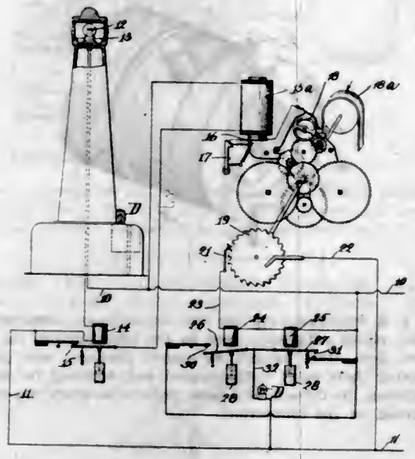
1. A hinge of the character described comprising a plurality of hinge plates adapted to be secured to the adjacent ends of the parts to be hinged together, said plates having their confronting end portions notched to provide opposed abutments, a pivot pin associated with each of said plates, and a hinge link plate mounted on said pins and extending between said hinge plate, said hinge link plate having a reduced lip along one edge thereof, said reduced lip having an inturned edge flange, the ends of which provide rigid shoulders engageable with the rigid abutments afforded by said notches.

1,676,074. CHAIR. NEWTON N. BROWN, Racine, Wis., assignor to Gold Medal Camp Furniture Co., Racine, Wis., a Corporation of Wisconsin. Filed June 21, 1926. Serial No. 117,332. 2 Claims. (Cl. 155—140.)



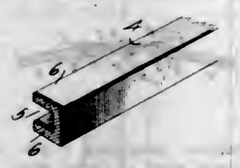
1. In a foldable chair of the character described, a stool having crossed legs pivotally connected intermediate their ends for folding one upon the other, cross members connected to the upper ends of said legs and a flexible seat secured to the cross members, supporting side frames disposed on opposite sides of said stool and including vertical legs to which the lower ends of the stool legs are pivotally connected, the stool legs being provided at points above their pivotal connection with fixed pins, and links each pivotally connected at one end thereof to one of the frame legs, the other respective ends of said links being provided with slots receiving said pins, the outer ends of said slots engaging said pins upon unfolding of the stool and side frames to hold the latter against spreading beyond a predetermined amount, said pins having a sliding fit in said slots to permit of movement together of said frames and simultaneous folding of said stool therebetween, the cross members engaging the side frames to limit inward movement of the side frames when the chair is set up and in use.

1,676,075. ALARM DEVICE FOR CLOCKS IN SIGNALING SYSTEMS. JAMES W. BRYCE, Bloomfield, N. J., assignor to International Time Recording Company of New York, Endicott, N. Y., a Corporation of New York. Filed Nov. 20, 1924. Serial No. 751,059. 4 Claims. (Cl. 161—15.)



3. In a signal system having a clock-controlled telltale mechanism adapted to show the time of signal failures, a clock driven member, a contact element cooperating therewith to be operated thereby, a relay circuit including said element and member and controlled thereby, an alarm circuit, and delayed action relay means in said relay circuit with provisions for establishing said alarm circuit upon the stoppage or slowing down of the clock driven member.

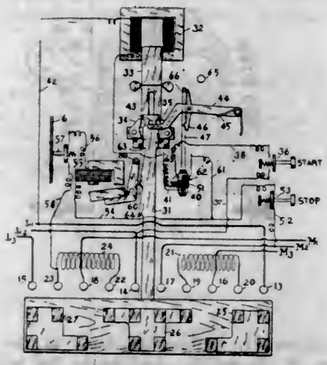
1,676,076. WALL-BOARD JOINT-FILLER STRIP. MONTY J. BUCHANAN, Seattle, Wash. Filed July 12, 1927. Serial No. 205,197. 2 Claims. (Cl. 72—16.)



1. The process of securing wall board sections to a framework, consisting of securing the sections to the framework with their edges spaced apart from each other, depositing of shellac or the like within the space and the insertion of a strip into the space, having a ventilating channel throughout its length.

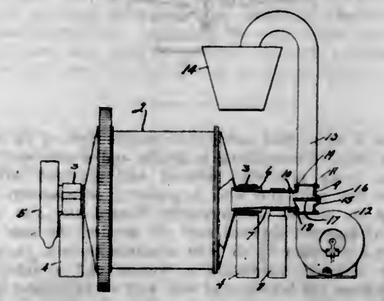
1,676,077. MOTOR-STARTING SWITCH. ARTHUR C. BUNKER, Montclair, N. J., assignor to Crocker-Wheeler Electric Manufacturing Company, Ampere, N. J., a Corporation of New Jersey. Filed Jan. 28, 1924. Serial No. 689,121. 2 Claims. (Cl. 172—288.)

1. In a motor starting switch, means for establishing motor starting connections, means for establishing motor running connections, an actuating magnet, a circuit therefor, a reciprocating armature therefor, means for coupling the reciprocating armature to the means for establishing motor starting connections, a pilot switch with delayed movement for opening and reclosing the circuit for the actuating magnet after motor starting connections are



established to effect a second reciprocation of the actuating magnet, and means for coupling the reciprocating armature to the means for establishing motor running connections on the second reciprocation of the actuating magnet.

1,676,078. INDUCTION EXHAUSTER. CHARLES T. CABRERA, Philadelphia, Pa., assignor of one-fourth to Benjamin J. MacDonald, New York, N. Y., and one-tenth to Wilbur W. Williamson, Philadelphia, Pa. Filed Mar. 31, 1927. Serial No. 179,806. 2 Claims. (Cl. 302—21.)

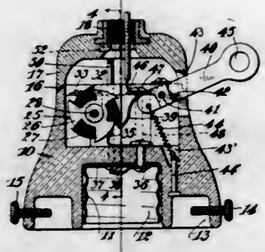


1. The herein described combination of a container, a passageway leading from said container, another passageway with which the first mentioned passageway communicates, an air circulating medium connected with one end of the second named passageway, and a baffle provided with a hole located across said second mentioned passageway at the point of communication with the first mentioned passageway and dividing said first mentioned passageway into subpassageways.

1,676,079. SWITCH SOCKET. GEORGE M. CONDIT, Waterville, Conn., assignor of one-half to W. W. Bowers, Waterbury, Conn. Filed Oct. 17, 1925. Serial No. 63,173. 7 Claims. (Cl. 173—354.)

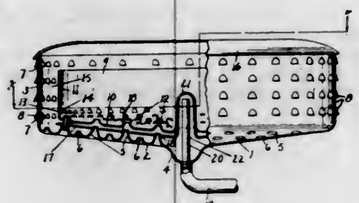
1. In a switch socket, a body member of insulating material, a lamp socket, a ratchet having alternating sections of conducting and insulating material mounted

in the said body member, a contact bearing against the side of the said ratchet, a spring contact adapted to



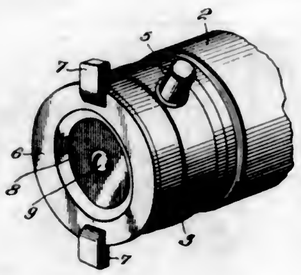
bear successively against the faces of the segmental sections of the ratchet, and means for actuating the ratchet.

1,676,080. LIQUID-FUEL BURNER. HENRY A. DAVIS, Jeffersonville, Ind. Filed Oct. 26, 1927. Serial No. 228,837. 14 Claims. (Cl. 158—91.)



1. In a liquid fuel burner, the combination of an outer burner member comprising a bottom and a side wall, the bottom being inwardly inclined and provided with a central fuel well and with a plurality of upwardly projecting air nozzles and upwardly flanged air inlet openings interspersed between said air nozzles, the side wall having a plurality of air inlet openings therein, an inner burner member comprising a bottom and a side wall spaced from the bottom and side wall of said outer member, the bottom of the inner member having a central opening above said well and a plurality of upwardly projecting jets alined with said air nozzles, the wall of the inner member having a plurality of openings at the base thereof, the bottom of the outer member having a plurality of air inlets delivering between the side walls of said burner members, a baffle member arranged between said burner members in spaced relation to both and coacting with the bottom of the outer burner member providing a generating and distributing chamber, said baffle member having openings therein to receive said air nozzles, the openings being of a size providing annular ports surrounding the air nozzles, said baffle member having a tubular extension closed at its upper end projecting through the central opening in said inner member bottom, a fuel supply nozzle disposed centrally of said fuel well and projecting into said baffle member extension, and an annular top member extending inwardly from the upper edge of said outer burner member side wall and overhanging the side wall of said inner burner member.

1,676,081. ADJUSTABLE HOSE CAP FOR FIRE-DEPARTMENT CONNECTIONS. OMER L. DOWNING, South Norwood, Ohio. Filed May 9, 1927. Serial No. 190,063. 2 Claims. (Cl. 137—13.)



1. A detachable cap for hose connections, comprising a disc, plates adjustably fixed on the inner face of the disc and held from lateral movement thereon, said plates having their outer ends rounded and designed for travel between the threads of a hose connection when the cap is turned on the connection.

1,676,082. SAUSAGE CASING. RALPH ETTLINGER, Kansas City, Mo. Filed Dec. 5, 1927. Serial No. 237,991. 5 Claims. (Cl. 17—45.)

1. A process of treating fabric suitable for the manufacture of sausage casings which consists in coating it on one side with a substance containing gelatinized raw hogskins and then subjecting the fabric to the drying, setting and preservative action of wood smoke.

1,676,083. FASTENING DEVICE FOR BELTS. CHARLES EMILE FAURE, Ivry-sur-Seine, France, assignor to Société à Responsabilité Limitée Bonnart & Cie., Paris, France, a Limited Company of France. Filed Aug. 18, 1927, Serial No. 213,915, and in France Mar. 12, 1927. 2 Claims. (Cl. 24—33.)

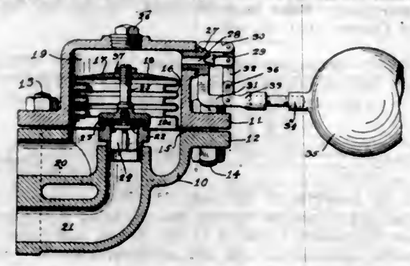


1. A belt fastener comprising a pair of plates each formed of a single piece of folded metal and having a plurality of spaced eyes on one edge, means for securing each of said plates to an end of the belt to be joined, a plurality of intermediate links hingedly connected together interconnecting said spaced eyes, said links being formed of a single piece of folded metal and liners, carried by the under surfaces of said links, of the same material and thickness of the belt to be joined.

1,676,084. COMBINATION FLOAT AND DIAPHRAGM VALVE. CHARLES N. FLAGO, Meriden, Conn. Filed May 9, 1927. Serial No. 189,808. 8 Claims. (Cl. 137—101.)

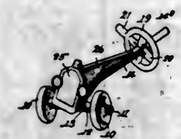
8. In an automatic feed-water regulator, a float chamber containing a float and communicating with a reservoir, a casing having an inlet and an outlet, a compact quick-acting bellows type diaphragm dividing said casing into a main chamber and a control chamber, a by-pass to

equalize the pressure between said chambers, a main valve connected to and enclosed by said diaphragm for closing said outlet, a float-operated relief valve connected



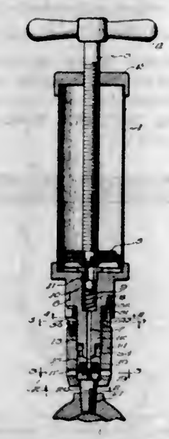
to said casing for reducing the pressure in said control chamber when the float falls to a predetermined level for causing said diaphragm to open said main valve.

1,676,085. TOY. LLOYD E. GERRISH, Kittery, Me. Filed Mar. 16, 1926. Serial No. 95,097. 5 Claims. (Cl. 272—85.)



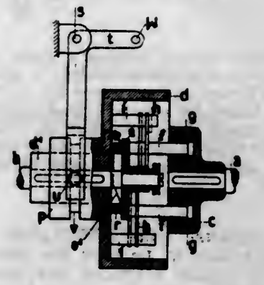
1. A toy including a pair of traction wheels and a stationary axle connecting the wheels, said axle having a flat surface portion adapted to be disposed in inclined position as the toy is rolled over the ground, and a steering bar pivotally connected to the axle and having camming engagement with the inclined face thereof, to effect steering of the traction wheels, said steering bar serving as the handle bar of the toy and adapted to be manually held and pushed by a child trundling the toy, said bar being angularly offset at its forward end to obtain the desired camming leverage on the axle without unduly elevating the rear end of the bar.

1,676,086. LUBRICATING MEANS. REMI J. GITS, Chicago, Ill., assignor of one-third to William E. Hann, Chicago, Ill. Filed Dec. 14, 1927. Serial No. 239,986. 9 Claims. (Cl. 285—176.)



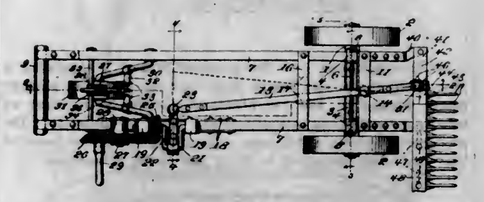
1. In a lubricating apparatus of the character described, connecting means comprising a lubricant ejection nozzle communicating with a source of lubricant under pressure, a lubricant receiver affixable to the object of lubrication, and a coupling connecting said nozzle and receiver, said receiver and coupling having endwise interfitting and limited turning swivel connection, and said coupling and nozzle having threaded connection for moving said nozzle relatively to said receiver when rotated relatively thereto, the said threaded and swivel connections being closed by the same direction of torque.

1,676,087. BRAKE FOR HOISTING DEVICES AND THE LIKE. LUDWIG HERBORN, Bierstadt, Germany, assignor of one-third to Willy Horn and one-third to August Horn, Wiesbaden, Germany. Filed Nov. 7, 1927, Serial No. 231,756, and in Germany Feb. 2, 1925. 4 Claims. (Cl. 192—12.)



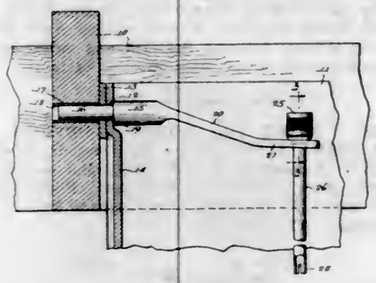
1. A braking device of the character described, comprising, in combination, a brake, a device for rendering said brake operative and inoperative, a driving shaft, a driven shaft, a coupling member on said driving shaft, a coupling member on said driven shaft, a second coupling member on said driven shaft and adapted to coact with said first coupling member, said both coupling members engaging each other in such a manner that thereby a dead play is inserted in either direction between said shafts carrying said respective coupling members, and means operatively connected to said brake operating device and said coupling members in such a manner as to become operative during said dead play of said shafts.

1,676,088. MOWING MACHINE. PEDRO HOLMES, Kansas City, Kans. Filed Apr. 30, 1926. Serial No. 105,804. 3 Claims. (Cl. 56—243.)



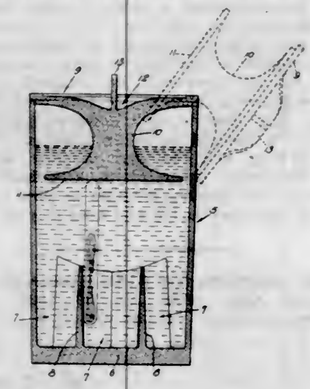
1. A mowing machine including a frame having side members, ground wheels, yokes on the axle for the ground wheels through which the side members of the frame are received, means for vertically adjusting and supporting the frame in the yokes, a cutting mechanism at the forward end of the frame said cutting mechanism including a cutter bar and a finger bar, hand operated means for reciprocating the cutter bar over the finger bar, a crank axle pivotally secured to the frame adjacent to the rear thereof, a caster wheel journaled on the crank axle, means for swingably adjusting the crank axle with respect to the frame and means for holding the crank axle so adjusted.

1,676,089. ICE-CAN BRACKET AND DROP TUBE. WILLIAM W. JOHNSON, Memphis, Tenn. Filed July 20, 1927. Serial No. 207,160. 4 Claims. (Cl. 62—159.)



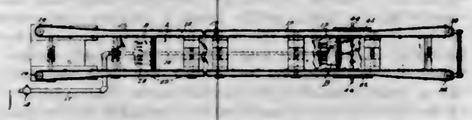
1. An ice can bracket including a shank, a reduced portion at one end of the shank adapted to pass through the opening in an ice can and enter an opening in a can supporting frame, the reduced extension defining a shoulder on the shank adapted to abut the inner face of an ice can, the opposite end of the shank being offset and having an opening therein adapted to receive a drop tube.

1,676,090. MEANS FOR STERILIZING LIGATURE TUBES. ROBERT W. JOHNSON, New Brunswick, N. J., assignor to Johnson & Johnson, New Brunswick, N. J., a Corporation of New Jersey. Filed Dec. 21, 1927. Serial No. 241,562. 3 Claims. (Cl. 167—3.)



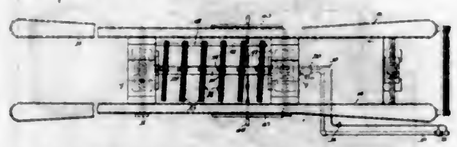
1. An appliance for the purpose stated, comprising a receptacle for a sterilizing fluid and for ligature storage tubes, means in the receptacle for endwise stowage of tubes according to classification, and a cover for the receptacle having a follower extending below the level of the fluid and operating to keep the tubes submerged.

1,676,091. DRYING APPARATUS. WILLIAM WALLACE KEMP, Baltimore, Md. Filed Mar. 16, 1925. Serial No. 15,968. 12 Claims. (Cl. 26—60.)



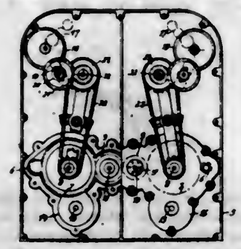
1. In a tentering machine having tentering chains carrying clamps, a pair of burners arranged upon opposite sides of the machine for heating said clamps.

1,676,092. DRYING APPARATUS. WILLIAM WALLACE KEMP, Baltimore, Md., assignor to The C. M. Kemp Manufacturing Co., Baltimore, Md., a Corporation of Maryland. Filed May 27, 1925. Serial No. 33,242. 26 Claims. (Cl. 26—60.)



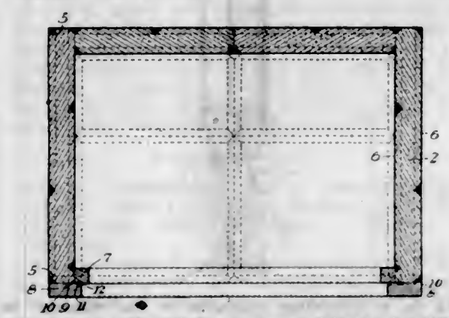
1. In a device of the class described, a gaseous fuel burner bodily-movable to vary the operating width thereof upon the material treated by the device, said burner extending substantially the full width of material treated in said device.

1,676,093. SPINNING AND TWISTING MACHINE. JOHANN JACOB KEYSER, Aarau, Switzerland. Filed Apr. 7, 1927, Serial No. 181,776, and in Switzerland and Germany Apr. 16, 1926. 6 Claims. (Cl. 118—45.)



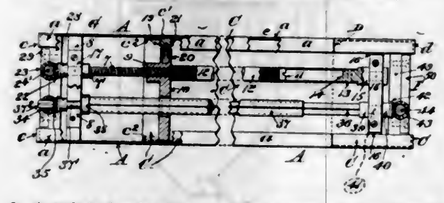
1. In an actuating mechanism for spinning and twisting machines a driving pinion gear, a mechanism to be driven, a chain gear between the said driving gear and the said mechanism and comprising a chain a driving sprocket arranged coaxial with and detachably coupled with a pinion of the said driving gear so as to be driven thereby and a driven sprocket located adjacent to and adapted to actuate the mechanism to be driven, means on either sprocket permitting to couple the same with the said pinion of the driving pinion gear, further means on either sprocket for detachably carrying a pinion adapted to mesh with a pinion of the mechanism to be driven, a support for the said chain gear constituting means for reversing the driving and driven relation of the two sprockets and a detachable pinion on the said driven sprocket for actuating the mechanism to be driven.

1,676,094. COMPOUND WALL STRUCTURE. LUTHER L. KNOX, Pittsburgh, Pa., assignor to Knox Products Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 26, 1926. Serial No. 131,654. 12 Claims. (Cl. 72—16.)



1. A compound wall structure comprising an insulating body and a covering body for certain parts of said insulating body, at least one of said bodies having portions recessed beyond the plane of the remainder thereof to provide zones for the reception of a filler.

1,676,095. PRINTER'S SHEET RECEPTACLE. CHARLES KORZENBORN, Cincinnati, Ohio. Filed Dec. 18, 1927. Serial No. 239,782. 2 Claims. (Cl. 271—86.)



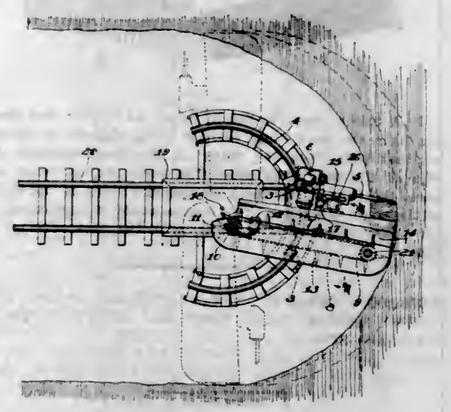
1. A printer's sheet-receptacle comprising, in combination, a corresponding pair of right-angled sections adapted to be arranged into a hollow square or continuously-closed frame whose walls are composed of transversely and longitudinally intersliding flanged channel-members for reciprocal telescoping-movement or adjustment to suit the delivery of different dimensions of printed sheets in true vertically-aligned and cleanly condition, a screw-rod mounted, to turn, in each of the four outwardly-open frame members, a telescoping compensating two-part transmission-rod mounted, to turn, in each of the two extended legs or limbs of one of the said right-angled sections of the outwardly-open frame members, miter gears operatively-connecting the said screws with said compensating transmission-rods so that the said right-angled sections may be harmoniously moved to and from each other in expanded or in contracted relation to suit the delivery of different sized printed sheets from the fly to the jogger-board, means on said transmission-rods for the engagement of an operating-key, automatic stop-latch means in the said outwardly-open sided frame members for limiting the outward or expanded movement of the said sections to prevent parting of their telescoping channel-members at the extreme capacity of the sheet-receptacle and means for accurately detecting or visualizing the exact dimensions of the expanded or contracted relations of the severel right-angled sections for transverse or longitudinal adjustment of the sheet-receptacle in use in accommodating printed sheets of different sizes, substantially as shown and described.

1,676,096. DOLL OR THE LIKE. ADOLF KWASNICKI, Brooklyn, N. Y. Filed Sept. 27, 1927. Serial No. 222,318. 1 Claim. (Cl. 46—40.)



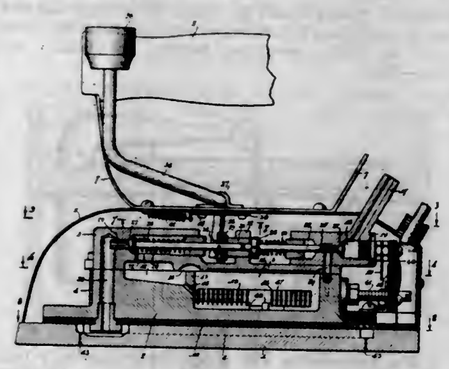
A coupling means for the legs and arms of dolls and the like, including a socket member adapted to be secured in the body of the doll and comprising a plurality of converging tongues flared outwardly at their inner ends, said leg or arm at its end of a shape to fit and turn in the socket member and having a head thereon to be forced between the tongues and a restricted neck portion to receive the tongues, said parts when together having a surface contact throughout the inner surface of the socket member.

1,676,097. COAL DIGGING AND LOADING MACHINE. GEORGE R. LANG, Pittsburgh, Pa. Filed Apr. 29, 1925. Serial No. 26,620. 5 Claims. (Cl. 262—5.)



1. A coal digging and loading machine, comprising a digging tool and conveyor means, means for supporting and guiding the entire machine for swinging movements as a unit about an axis adjacent the discharge end of the machine, whereby the digging tool is adapted to be moved along a curved face of the mine bed while the discharge end of the machine is maintained at substantially the same location, and other supporting means for the digging tool for engaging the roof and floor of the mine, substantially as described.

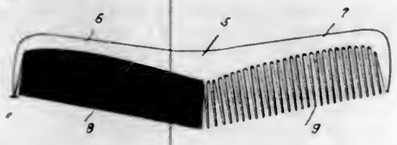
1,676,098. STEAMING IRON. RENÉ LEPRESTRE, New York, N. Y. Filed Mar. 15, 1928. Serial No. 261,870. 10 Claims. (Cl. 219—25.)



6. A steaming iron, including a sole plate, a body on the sole plate, an electric element heating the sole plate, a steam chamber in the body, an electric heating element in the steam chamber, said steam chamber connected with perforations in the sole plate for the passage of steam through the sole plate, valves controlling the supply of water to the steam chamber and steam from the steam chamber, an electric switch in circuit with the last

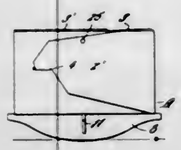
mentioned heating element, and a lever operatively connected to said valves and to said switch whereby the movement of the lever functions to simultaneously open both of the valves and close the switch.

1,676,099. COMB. EBBA LIND, New York, N. Y. Filed Apr. 16, 1927. Serial No. 184,314. 2 Claims. (Cl. 132—11.)



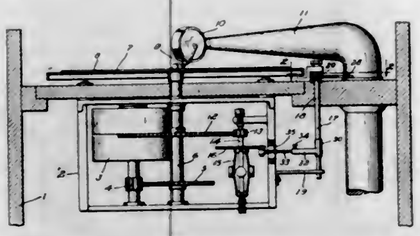
1. A toilet comb for use in finger waving or wet dressing hair the back edge thereof being shaped to diverge longitudinally from the center of the comb outward, the edge of the back from which the teeth project being concave, the ends of the teeth on opposite sides of the center of the comb diverging at an obtuse angle of approximately 10° to be substantially parallel with the back edge of the comb.

1,676,100. CRADLE. OSCAR J. LUND, Omaha, Nebr. Filed May 26, 1926. Serial No. 111,837. 2 Claims. (Cl. 46—37.)



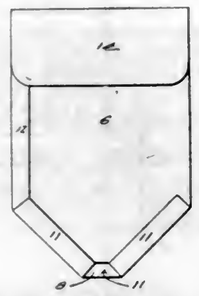
2. A combined receptacle and toy cradle, said receptacle having spaced pairs of slots in the bottom thereof, a pair of rockers, tongues projecting upwardly from each rocker and adapted to be removably received by one pair of said slots, a connecting bar arranged beneath said bottom and detachably connected with said rockers.

1,676,101. PHONOGRAPH. CECIL K. LYANS, Baldwin, N. Y., and ALBERT HATHORNE DUNN, Du Bois, Pa. Filed Oct. 29, 1926. Serial No. 145,021. 4 Claims. (Cl. 188—180.)



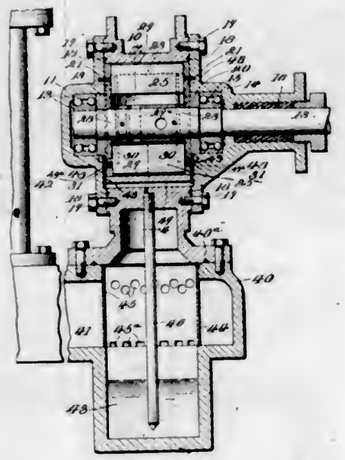
1. The combination with a phonograph having a turntable and a movable tone arm, of a governor operatively connected to the driving mechanism of the turntable, a controller shaft caused to turn by the movement of the tone arm, and means operated by the turning movement of the controller shaft to control the operation of the governor, said last-mentioned means including an arm having screw-threaded engagement with the shaft, and a disk on the governor engaged by the arm.

1,676,102. LEMON SQUEEZER. THORNTON LEWIS LYNAM, Dartmouth, Mass. Filed Sept. 13, 1927. Serial No. 219,268. 2 Claims. (Cl. 100—49.)



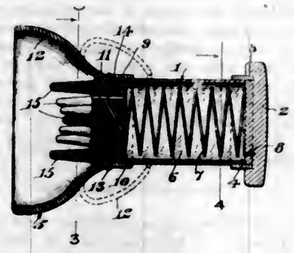
2. As a new article of manufacture, a lemon squeezer formed from a single sheet of flexible material cut to provide an oblong side a second oblong side integrally joined to one side edge of the first side, the first side having a tapered lower end formed with side flaps and the side edge of the first side being provided with a flap, the second side having a tapered lower end formed with a notch at its apex, said second side adapted to be folded over upon the first side and the flaps being adapted to be pasted to the second side, said first side having its upper end extended to provide a closure.

1,676,103. LUBRICATING AND SEALING SYSTEM FOR ROTARY COMPRESSORS. CHARLES T. MASON, Sumter, S. C., assignor of one-half to Henry L. Buck, Conway, S. C., and one-half to Robert Pierce Yates, Sumter, S. C. Filed Feb. 16, 1927. Serial No. 168,790. 4 Claims. (Cl. 230—207.)



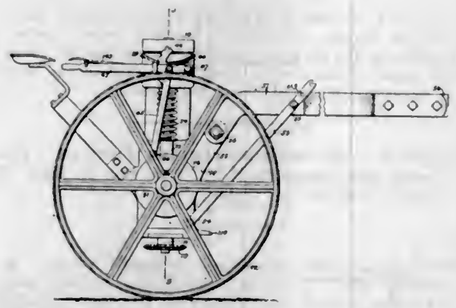
1. In a lubricating and sealing system for a rotary compressor or pump or blower having a rotor, a casing and end plates for the casing; an oil sump exposed to the air pressure from the blower, and an oil conduit from said sump to a point on the rotor face of one of said end plates at which a lower pressure prevails during operation than appertains in said sump, said point being adjacent the periphery of the plate; said end plate having a spiral groove on the rotor face thereof, said grooves progressing inward so that the movement of said rotor assists the movement of oil therealong and toward the axis of the rotor.

1,676,104. MASSAGE APPLIANCE. ALOIS MERKE, Chicago, Ill. Filed Nov. 4, 1927. Serial No. 231,082. 1 Claim. (Cl. 128—300.)



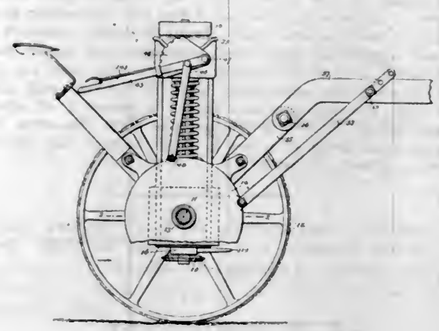
A massage device comprising a resilient cup element provided therein with massaging tips and further provided with ports arranged between the rear ends of and extending rearwardly from the tips, a resilient tubular handle element of uniform diameter having its forward end abutting the rear face of the cup element, an annular member secured to and surrounding said elements for connecting them together and providing an air tight joint, a closure having its inner face abutting the other end of and of greater diameter than the handle element, an annular member surrounding the handle element and extending into said closure, secured to the latter and handle element for connecting them together and providing an air tight joint, and a coiled spring positioned in the handle element and abutting the inner face of the closure and rear face of the cup element, said spring having one end anchored in the rear face of the cup element and its other end in the inner face of said closure.

1,676,105. STALK CUTTER. JOSEPH MICHALKA, FRANK A. MICHALKA, and RALPH A. MICHALKA, Cameron, Tex. Filed Jan. 9, 1925. Serial No. 1,438. 10 Claims. (Cl. 56—60.)



1. A stalk cutter including a wheeled frame, vertically disposed guide means on said frame, a knife frame vertically movable in said guide means, rotary chopper knives in said knife frame, shafts for said knives, vertical shafts at the outer sides of the knife frame, means to turn said second shafts with the turning of the wheels of the first frame, gear trains on said knife frame for effecting a driving connection between said second shafts and the shafts of the chopper knives, means to raise and lower said knife frame, and means to make and break the drive connection between said shafts and the initial elements of the drive trains with the raising and lowering of the knife frame.

1,676,106. STALK CUTTER. JOSEPH MICHALKA, Jr., FRANK A. MICHALKA, and RALPH A. MICHALKA, Cameron, Tex. Filed Apr. 1, 1926. Serial No. 99,112. 4 Claims. (Cl. 56—60.)



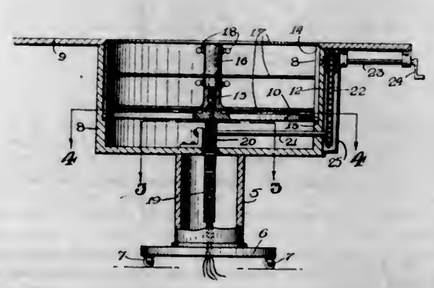
1. A stalk cutter having running wheels whereby to travel over a field, coacting stalk chopping knives, shafts on which said knives are mounted, means to positively drive each shaft, a driven element fast on one shaft additional to the drive means thereof, an element loose on the other shaft and additional to the drive means of said shaft and meshing with said driven element fast on said one shaft, and means to turn said loose element with the turning of the shaft on which it is mounted.

1,676,107. RAILWAY TIE. ALEXANDER NASBY, Gordon, W. Va. Filed Jan. 24, 1928. Serial No. 249,153. 3 Claims. (Cl. 238—31.)



1. A metallic tie comprising two similar bar-like sections having their inner ends furcated and the inner ends of the arms thus produced constructed to overlap one another in the assembled relation of the sections, means for securing the arms to one another, a turn buckle connecting the sections for adjusting the sections and means for securing a rail to each section.

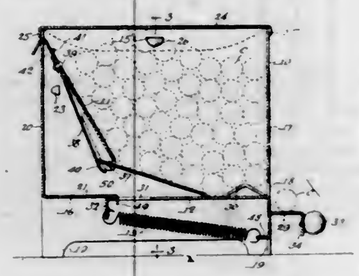
1,676,108. CONVERTIBLE TABLE. JAMES NOVAK, Cleveland, Ohio. Filed Jan. 4, 1927. Serial No. 158,871. 4 Claims. (Cl. 45—26.)



1. A convertible flat-top and self-waiting table including a supporting structure, an open-top receptacle rigidly mounted thereon, a border table top section rigidly

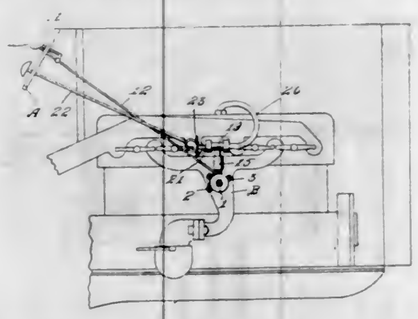
mounted on said receptacle and having a central opening registered with the open top of said receptacle, a supporting plate slidably fitted in the receptacle for vertical movement therein and adapted to close the opening of the border table top section when raised, means operable to raise and lower said supporting plate, and a multiple-shelf plate carrier rotatably mounted on said supporting plate and embodying an upper shelf adapted to close the opening of the border table top section when the supporting plate is lowered, said plate carrier embodying a hub having a plurality of spaced superposed shelves of similar size rigid therewith and each shelf being of a size to close the table top opening when alined therewith.

1,676,109. DISPENSING DEVICE. ERNEST OLDENBUSCH, Brooklyn, N. Y. Filed Oct. 20, 1926. Serial No. 142,927. 5 Claims. (Cl. 312—78.)



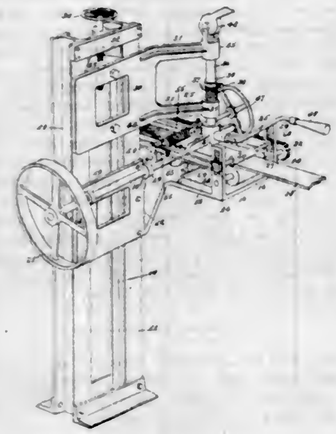
1. In a device for dispensing cigarettes or like article, a magazine including a rear wall, a bottom consisting of a fixed section and a slidable article delivery section, and a front wall having a discharge opening near the bottom; and a jointed skid connected to the top edge of the rear wall and resting on the bottom, said skid embodying means allowing it to assume a formation so as to lie in the entrance angle between the rear wall and bottom, said means constantly acting to straighten out the skid from its angular formation.

1,676,110. VAPOR MOISTENER. JOHN A. PETERSON, Kansas City, Mo., assignor to Clyde J. Turner and James H. Young, Kansas City, Mo. Filed Feb. 16, 1926. Serial No. 88,628. 1 Claim. (Cl. 123—25.)



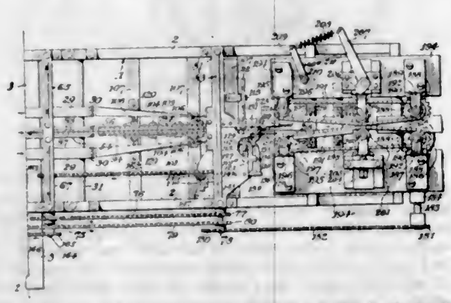
An attachment for internal combustion engines, comprising a cylinder, a partition therein and being formed with a valve seat, a spring controlled valve engaging the seat, said cylinder having air ports formed in the cylindrical portion thereof to the rear of the valve, a spring actuated cover for the ports, a nipple formed with said cylinder at the inner end thereof for connecting the cylinder with the inlet manifold of an internal combustion engine of a vehicle and being provided with air passages extending therethrough and the inner end of the cylinder respectively, an L-shaped member having its inner end formed with the inner end of the cylinder and its other end portion passing through the cylindrical wall thereof, said L-shaped member having a passage therein in communication with said nipple, a casing in communication with said member and the water jacket of the internal combustion engine, means for controlling said communication arranged in said casing, means for operating the last mentioned means and for opening the spring actuated cover from the dash of the vehicle.

1,676,111. SURFACING MACHINE. EDWIN H. REIBER, West Webster, N. Y. Filed Nov. 6, 1925, Serial No. 67,361. Renewed May 15, 1928. 9 Claims. (Cl. 41—5.5.)



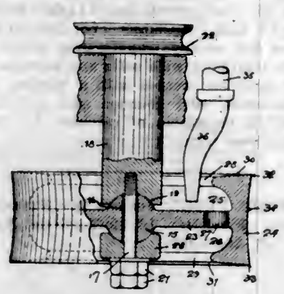
1. In a machine for effecting a burnt surface decoration on lengths of material, a head roller having a pattern on the periphery thereof, and means for varying the speed of rotation to obtain variations in the nature of the decoration imparted to the material.

1,676,112. BLANK-BOOK-MAKING MACHINE. FREDERICK RENZ, Brooklyn, N. Y. Filed Feb. 16, 1927. Serial No. 168,753. 14 Claims. (Cl. 11—1.)



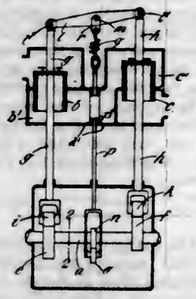
1. The combination with a carrier for the book stacks and their covers, of a sewing device, means for holding the wings of the books in a flat condition when passing said device, means for applying a wet adhesive binding strip to the underside of the covers along the median line thereof, yielding presser means to seal the binding strip to the cover, a crimping mechanism comprising vertically aligned chains to engage and bend the books along the center line, a cutter for severing the binding strip and sewing threads, trip mechanism for the cutter controlled by the passing books, squeezing mechanism including companion chains to engage and set the folded edges of the books and means for imparting rapid step feed movements to the conveying parts.

1,676,113. NEBULIZER. CHAMPLAIN L. RILEY, North Plainfield, N. J., assignor to Industrial Associates, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 21, 1925. Serial No. 70,532. 7 Claims. (Cl. 299—63.)



1. In a centrifugal atomizer, a driving spindle and a nebulizer unit suspended therefrom and having a frictional flexible joint drive engagement therewith.

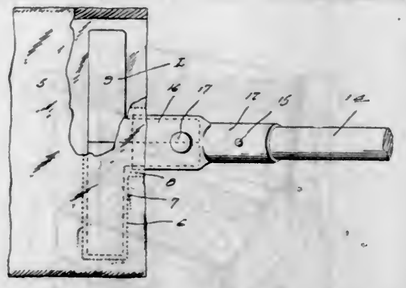
1,676,114. PUMP FOR LIQUIDS OR HYDRAULIC MOTOR. WILLIAM JOSEPH RUSDELL, Wolverhampton, England. Filed Sept. 11, 1925, Serial No. 55,776, and in Great Britain Oct. 3, 1924. 24 Claims. (Cl. 103—205.)



1. A pump for liquids or a motor operated by liquid under pressure comprising a number of pump chambers connected in series, a piston in each chamber adapted to reciprocate, rotating cam mechanism adapted to move each piston through its stroke in one direction, a member actuated by each piston during its stroke in the said direction to move another piston through its return stroke and a cam acting on said member to impart to it a movement whereby the movement of each piston through its return stroke is assisted.

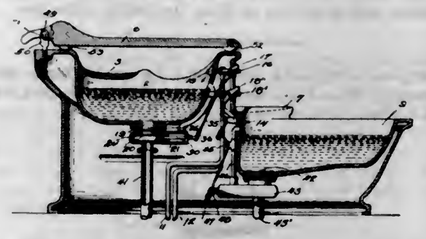
1,676,115. MOP. ROLAND S. SCHWARZ, Sr., Huntington, W. Va. Filed Feb. 7, 1928. Serial No. 252,480. 1 Claim. (Cl. 15—228.)

A mop holder of the class described comprising a ferrule provided with a flat hollow extension, a set screw threaded therethrough, a pair of flat L-shaped members including arms receivable in the extension and arms extending in alinement with each other and in opposite directions from each other, said first mentioned arms being provided with recesses in which the set screw



is adapted to be received, said first mentioned arms being disposed in a plane oblique to the plane of the second mentioned arms.

1,676,116. LAVATORY FIXTURE. ERRETT G. SMITH, Washington, D. C. Filed Jan. 24, 1928. Serial No. 249,043. 4 Claims. (Cl. 4—7.)



1. A lavatory fixture comprising a basin provided with a surrounding seat concaved to the contour of the thighs of a user when seated thereon, and foot rests located in front of and below the plane of said seat.

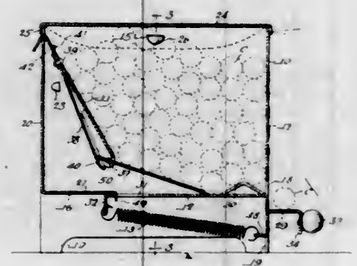
1,676,117. INTERMITTENT-MOVEMENT MECHANISM. VICTOR R. STENGER, Chicago, Ill. Filed Jan. 11, 1926. Serial No. 80,394. 4 Claims. (Cl. 74—41.)



2. An intermittent movement mechanism comprising a radially-slotted driven wheel, means for imparting to said wheel a step-by-step rotation embodying a pin adapted to enter each of said slots in succession, an oscillating arm carrying said pin, gearing on said arm for bodily rotating said pin, and devices for periodically imparting to said arm while the pin is thus bodily rotating a translatory relative movement with reference to said driven wheel in the plane of the rotation of said driven wheel between positions in which said pin engages in one of the slots of said driven wheel in its body movement and in which said pin misses engagement with said driven wheel.

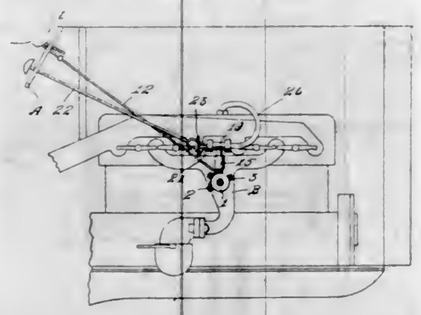
mounted on said receptacle and having a central opening registered with the open top of said receptacle, a supporting plate slidably fitted in the receptacle for vertical movement therein and adapted to close the opening of the border table top section when raised, means operable to raise and lower said supporting plate, and a multiple-shelf plate carrier rotatably mounted on said supporting plate and embodying an upper shelf adapted to close the opening of the border table top section when the supporting plate is lowered, said plate carrier embodying a hub having a plurality of spaced superposed shelves of similar size rigid therewith and each shelf being of a size to close the table top opening when alined therewith.

1,676,109. DISPENSING DEVICE. ERNEST OLDENBUSCH, Brooklyn, N. Y. Filed Oct. 20, 1926. Serial No. 142,927. 5 Claims. (Cl. 312—78.)



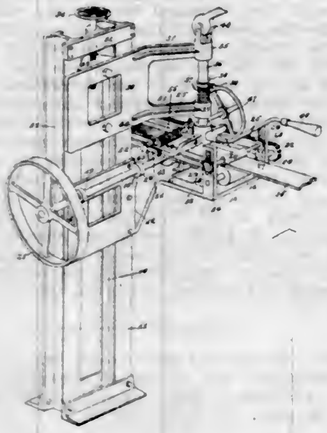
1. In a device for dispensing cigarettes or like article, a magazine including a rear wall, a bottom consisting of a fixed section and a slidable article delivery section, and a front wall having a discharge opening near the bottom; and a jointed skid connected to the top edge of the rear wall and resting on the bottom, said skid embodying means allowing it to assume a formation so as to lie in the entrance angle between the rear wall and bottom, said means constantly acting to straighten out the skid from its angular formation.

1,676,110. VAPOR MOISTENER. JOHN A. PETERSON, Kansas City, Mo., assignor to Clyde J. Turner and James H. Young, Kansas City, Mo. Filed Feb. 16, 1926. Serial No. 88,628. 1 Claim. (Cl. 123—25.)



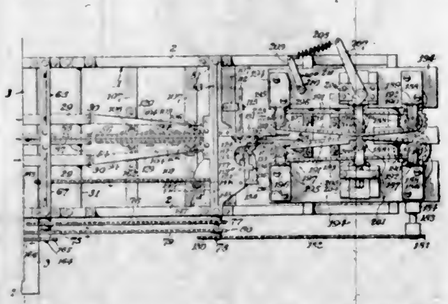
An attachment for internal combustion engines, comprising a cylinder, a partition therein and being formed with a valve seat, a spring controlled valve engaging the seat, said cylinder having air ports formed in the cylindrical portion thereof to the rear of the valve, a spring actuated cover for the ports, a nipple formed with said cylinder at the inner end thereof for connecting the cylinder with the inlet manifold of an internal combustion engine of a vehicle and being provided with air passages extending therethrough and the inner end of the cylinder respectively, an L-shaped member having its inner end formed with the inner end of the cylinder and its other end portion passing through the cylindrical wall thereof, said L-shaped member having a passage therein in communication with said nipple, a casing in communication with said member and the water jacket of the internal combustion engine, means for controlling said communication arranged in said casing, means for operating the last mentioned means and for opening the spring actuated cover from the dash of the vehicle.

1,676,111. SURFACING MACHINE. EDWIN H. REIBER, West Webster, N. Y. Filed Nov. 6, 1925, Serial No. 67,361. Renewed May 15, 1928. 9 Claims. (Cl. 41—5.5.)



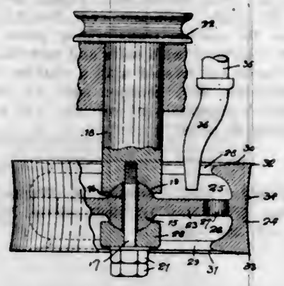
1. In a machine for effecting a burnt surface decoration on lengths of material, a head roller having a pattern on the periphery thereof, and means for varying the speed of rotation to obtain variations in the nature of the decoration imparted to the material.

1,676,112. BLANK-BOOK-MAKING MACHINE. FREDERICK RENZ, Brooklyn, N. Y. Filed Feb. 16, 1927. Serial No. 168,753. 14 Claims. (Cl. 11—1.)



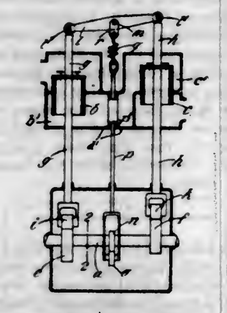
1. The combination with a carrier for the book stacks and their covers, of a sewing device, means for holding the wings of the books in a flat condition when passing said device, means for applying a wet adhesive binding strip to the underside of the covers along the median line thereof, yielding presser means to seal the binding strip to the cover, a crimping mechanism comprising vertically aligned chains to engage and bend the books along the center line, a cutter for severing the binding strip and sewing threads, trip mechanism for the cutter controlled by the passing books, squeezing mechanism including companion chains to engage and set the folded edges of the books and means for imparting rapid step feed movements to the conveying parts.

1,676,113. NEBULIZER. CHAMPLAIN L. RILEY, North Plainfield, N. J., assignor to Industrial Associates, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 21, 1925. Serial No. 70,532. 7 Claims. (Cl. 299—63.)



1. In a centrifugal atomizer, a driving spindle and a nebulizer unit suspended therefrom and having a frictional flexible joint drive engagement therewith.

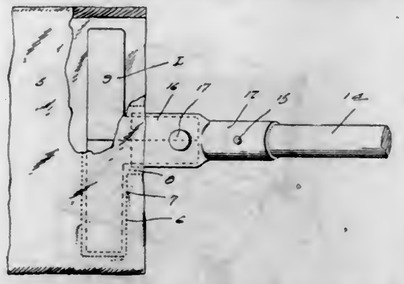
1,676,114. PUMP FOR LIQUIDS OR HYDRAULIC MOTOR. WILLIAM JOSEPH RUSDELL, Wolverhampton, England. Filed Sept. 11, 1925, Serial No. 55,776, and in Great Britain Oct. 3, 1924. 24 Claims. (Cl. 103—205.)



1. A pump for liquids or a motor operated by liquid under pressure comprising a number of pump chambers connected in series, a piston in each chamber adapted to reciprocate, rotating cam mechanism adapted to move each piston through its stroke in one direction, a member actuated by each piston during its stroke in the said direction to move another piston through its return stroke and a cam acting on said member to impart to it a movement whereby the movement of each piston through its return stroke is assisted.

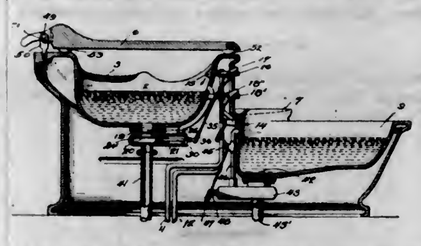
1,676,115. MOP. ROLAND S. SCHWARZ, Sr., Huntington, W. Va. Filed Feb. 7, 1928. Serial No. 252,480. 1 Claim. (Cl. 15—228.)

A mop holder of the class described comprising a ferrule provided with a flat hollow extension, a set screw threaded therethrough, a pair of flat L-shaped members including arms receivable in the extension and arms extending in alinement with each other and in opposite directions from each other, said first mentioned arms being provided with recesses in which the set screw



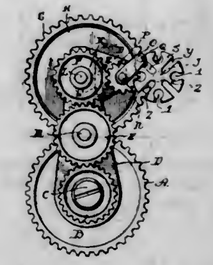
is adapted to be received, said first mentioned arms being disposed in a plane oblique to the plane of the second mentioned arms.

1,676,116. LAVATORY FIXTURE. EBBETT G. SMITH, Washington, D. C. Filed Jan. 24, 1928. Serial No. 249,043. 4 Claims. (Cl. 4—7.)



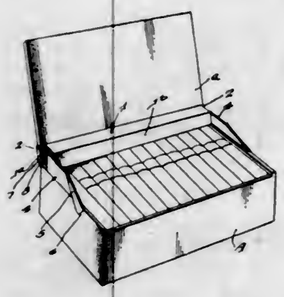
1. A lavatory fixture comprising a basin provided with a surrounding seat concaved to the contour of the thighs of a user when seated thereon, and foot rests located in front of and below the plane of said seat.

1,676,117. INTERMITTENT-MOVEMENT MECHANISM. VICTOR R. STENGER, Chicago, Ill. Filed Jan. 11, 1926. Serial No. 80,394. 4 Claims. (Cl. 74—41.)



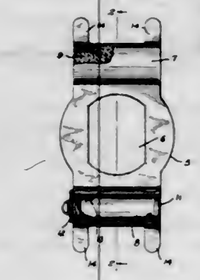
2. An intermittent movement mechanism comprising a radially-slotted driven wheel, means for imparting to said wheel a step-by-step rotation embodying a pin adapted to enter each of said slots in succession, an oscillating arm carrying said pin, gearing on said arm for bodily rotating said pin, and devices for periodically imparting to said arm while the pin is thus bodily rotating a translatory relative movement with reference to said driven wheel in the plane of the rotation of said driven wheel between positions in which said pin engages in one of the slots of said driven wheel in its body movement and in which said pin misses engagement with said driven wheel.

1,676,118. COMBINATION CIGAR-BOX MOISTENER AND COVER HOLDER. PHILIP SUKERT, Chicago, Ill. Filed Dec. 24, 1925. Serial No. 77,665. 5 Claims. (Cl. 131—30.)



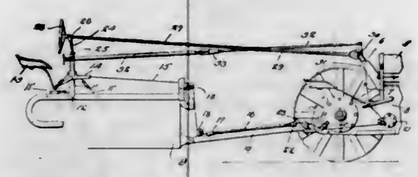
1. In a device of the character described, a casing adapted for reception of absorbent material and provided with an outlet opening, means for attaching the casing to the cover of a cigar box with said cover in open position, and means for securing the casing to the box.

1,676,119. FISHLINE HOLDER. FRANK M. TIPIL, Milwaukee, Wis. Filed May 26, 1927. Serial No. 194,366. 4 Claims. (Cl. 43—31.)



1. A fish line holder consisting of a frame having a pair of opposed spool-like end portions of substantially greater thickness than the other portions of said frame and about which a line may be wound, and an insert within one of the end portions for the insertion of a hook point.

1,676,120. TRACTOR DEVICE, JOHN VIBBER, Breckenridge, Mich. Filed Sept. 28, 1925. Serial No. 59,141. 1 Claim. (Cl. 180—77.)



1. A steering mechanism for steering a tractor from a point adjacent to a machine drawn by the tractor, comprising a steering rod embodying telescoping sections, means for securing one of the sections to the steering post of the tractor, a vertical arm secured to the machine drawn by the tractor, said arm having an enlarged opening formed in the upper portion thereof, a rod having pivotal connection with the steering rod, extended into the opening of the vertical arm, an adjustable collar mounted on the last mentioned rod, and resting on the upper end of the vertical arm, means for securing the collar rod in various positions of adjustment, and a wheel forming a part of the steering mechanism.

1,676,121. PROCESS OF TRANSFORMING PIECES OF CURDS INTO CHEESE BY TREATMENT WITH SALTS. RICHARD VON DER HEIDE, Schwiebus, Germany. Filed May 25, 1926. Serial No. 111,623, and in Germany May 12, 1925. 3 Claims. (Cl. 99—11.)

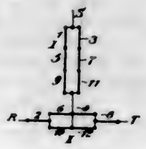
3. A process for quickly transforming pieces of curds into cheese by treatment with salts and bacteria in which the pieces of curds are treated with a mixture consisting of 50% amino-acids, 40% common salt, 4% chloride of magnesia, 4% of phosphate of calcium, 1% iron salts, and 1% manganese salts.

1,676,122. FUSE PLUG. JOSEPH N. WEIBELER, Belle Plaine, Minn. Filed Mar. 16, 1927. Serial No. 175,802. 1 Claim. (Cl. 200—121.)



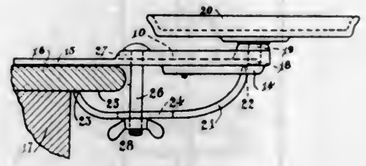
A fuse plug comprising a hollow porcelain body having a metal screw sleeve thereon, a removable fuse link in the body, and extending through the closed end thereof, a head on the outer end of the link and an eye on the inner end of the link, a cover hingedly secured to the body and having a mica covered opening therethrough, a metal member on the inner face of the cover hingedly connected to the sleeve and having a hooked end to engage with the eye of the fuse link, and a spring influenced insulator member contacting with the hook member, for the purpose set forth.

1,676,123. ARRANGEMENT OF 6N-POLE WINDINGS. HELMUTH WEINERT, Dresden-Kotzschenbroda, Germany, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, Germany, a Corporation of Germany. Filed July 9, 1926, Serial No. 121,480, and in Germany Feb. 2, 1925. 3 Claims. (Cl. 172—274.)



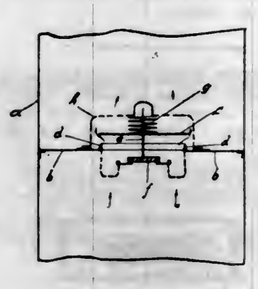
3. In a dynamo electric machine connected to a three phase line, a primary winding on the machine containing the winding elements of an 8*n*-pole three phase winding, said elements being connected so that the spacially successive even and odd numbered elements respectively form the horizontal and vertical phase of a 6*n*-pole T-winding, the winding elements in the vertical phase comprising two parallel-connected groups of series-connected elements, the winding elements in the horizontl phase comprising two parallel connected element groups, of which one group contains in series-connection two thirds of the number of elements contained in the horizontal phase, and the other group contains in series-connection one third of that number of elements, the elements of the smaller group having twice as many windings in series than the elements in the larger group, and connections between the outer ends of the T-winding and the three phase line.

1,676,124. FLOWERPOT HOLDER. LORNE ARTHUR WILKIE, Windsor, Ontario, Canada. Filed May 18, 1927. Serial No. 192,276. 2 Claims. (Cl. 248—20.)



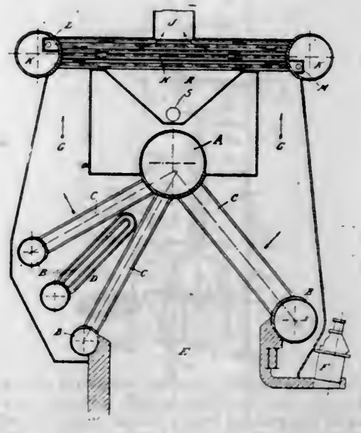
1. A flower pot holder comprising a main plate adapted to be supported on a sill at one end and its other end forming supporting means for a turntable, said main plate having at its outer end and on its under side guide members, and a resilient bar having a slot therein and flanges at each end adapted to engage with said guide members at one end and adapted to engage on the under side of the sill at the other end, and a bolt and locking means passing through the elongated slot of said resilient bar and engaging through a bolt hole of said main plate and adapted to be secured.

1,676,125. DEVICE FOR INDICATING ADMIXTURES TO GASES AND LIQUIDS. KARL WOLLIN, Berlin-Charlottenburg, and EDUARD SMOLCZYK, Biesdorf-Sud, near Berlin, Germany. Filed Dec. 4, 1926, Serial No. 152,684, and in Germany June 27, 1925. 8 Claims. (Cl. 256—144.)



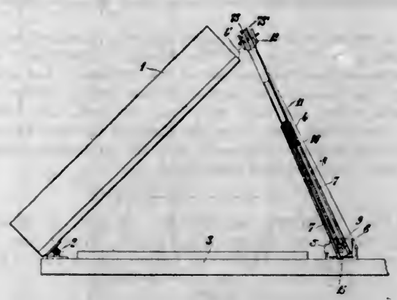
1. A device of the class described, comprising a body having a passage for a fluid, a substantially rigid normally stationary member exposed to contact with the fluid flowing through said passage and constructed of a material affected by predetermined foreign admixtures accompanying such fluid, a movable device held stationary and inactive as long as said member remains in its initial condition but arranged to be released when the condition of said member is altered by contact with such foreign admixtures, and a device operated by the movement of said movable device when the latter is released.

1,676,126. ECONOMIZER FOR WATER-TUBE BOILERS. HAROLD EDGAR YARROW, Glasgow, Scotland. Filed May 2, 1925, Serial No. 27,546, and in Great Britain Nov. 7, 1924. 2 Claims. (Cl. 122—379.)



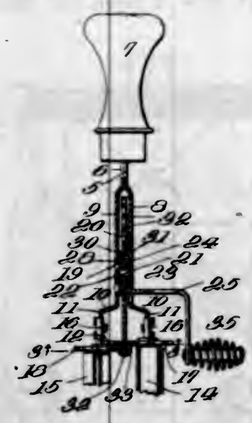
1. An economizer for water tube boilers, comprising headers arranged above and on opposite sides of the steam drum of the boiler, horizontal water tubes extending between and having their ends connected with said headers, a soot collector having walls inclined toward their lower ends arranged under said tubes and immediately above the steam drum of the boiler, and means for removing the accumulated soot from said collector.

1,676,127. TIP WAGON. HENRI BERNIER, Levallois-Perret, France. Filed Oct. 5, 1923, Serial No. 666,825, and in France Oct. 11, 1922. 2 Claims. (Cl. 298—19.)



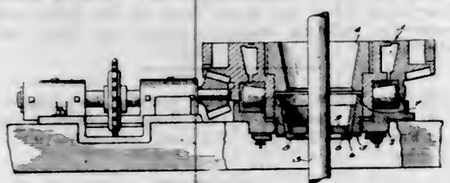
1. A tip wagon comprising a chassis, a truck body pivoted on the chassis, a hoisting mechanism for the truck body including a movable cross arm, a pair of pulleys mounted in each end of said cross arm, a cable having one end connected to the truck body at one side and extending upwardly and over one of the pair of pulleys at one side of the cross arm, thence extending along the cross arm to one of the pulleys at the opposite side of the cross arm, and thence downwardly to the opposite side of the chassis to which same is affixed, a second cable attached at one end to the truck body at the side opposite to which the first cable is attached, said cable extending upwardly and over the other pulley of the pair at the second named side of the cross arm, thence along the cross arm to the other pulley of the pair at the first named end of the cross arm and downwardly to the chassis to which the other end of this second cable is affixed.

1,676,128. BEATER. LAVERN BORDWELL, New York, N. Y. Filed Apr. 18, 1924. Serial No. 707,365. 12 Claims. (Cl. 259—131.)



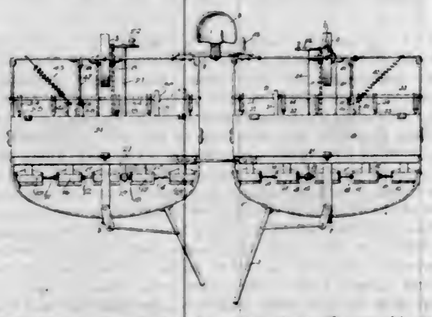
1. A beater comprising a frame consisting of separated parallel legs, an operating wheel pivotally connected with one of the parallel legs, a handle connected with the said wheel, the other parallel leg passing around the said handle and pivot, for the purpose described.

1,676,129. DRILLING MACHINE. HARRY C. BREWSTER, Shreveport, La. Filed Feb. 15, 1926. Serial No. 88,476. 2 Claims. (Cl. 255—23.)



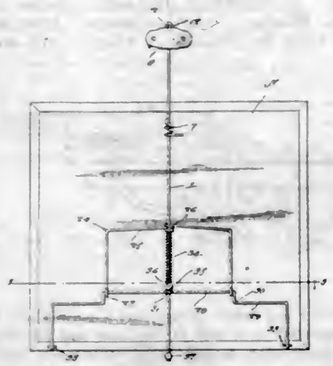
2. A rotary having the usual slip ring mounted on the rotating part thereof and also having a stationary bed, an inturned shelf supported on the stationary bed and a safety ring mounted on said shelf and having an opening through which the drill stem and its couplings loosely pass, the safety ring being designed to prevent obstructions from falling or dropping into the well when drilling or when removing the drill stem.

1,676,130. SEEDING MACHINE. CHARLES E. BROWER and CALVIN N. HINES, Yuma, Colo. Filed Dec. 10, 1925. Serial No. 74,559. 2 Claims. (Cl. 111—54.)



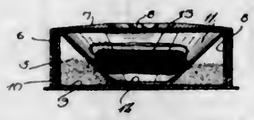
1. In a device of the class described, the combination with a frame and shaft therefor, said shaft being provided with a plurality of reversely situated screw threads, stirrups having interior cooperating screw threads mounted on said shaft, planting devices being operatively connected with said stirrups, and means for rotating said shaft to thereby cause a longitudinal movement of the stirrups and the planting devices to uniformly vary the space between the planting devices.

1,676,131. PICTURE HANGER. ADOLFO CAMPOS, Philadelphia, Pa. Filed Oct. 10, 1927. Serial No. 225,143. 2 Claims. (Cl. 40—145.2.)



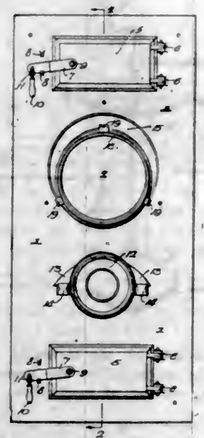
1. In a picture hanger of the class described, a vertically disposed member adapted to be secured to a wall, a forwardly extending arm on the upper end of said member, a manually operable pulley supported on the outer end portion of said arm, a flexible suspension member secured at one end to the pulley and adapted to be wound therearound, the free end of said flexible member adapted for attachment to the upper portion of a picture, means arranged on the lower portion of said vertical member for attachment to the lower edge portion of the picture, said last mentioned means comprising a vertically adjustable unit, and a hook and eye connection between the unit and the picture at its lower edge to afford a pivotal connection for the lower edge portion of the picture.

1,676,132. POWDER BOX. JAMES A. CLARKE, Yonkers, N. Y., assignor to Calkins & Holden, New York, N. Y., a Corporation of New York. Filed Nov. 5, 1927. Serial No. 231,274. 1 Claim. (Cl. 132—82.)



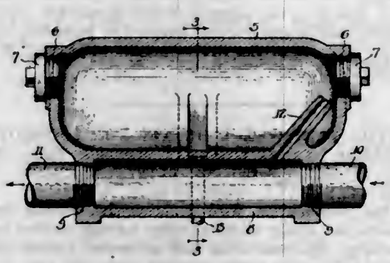
A powder box comprising a main box body having a removable cover, and a refill element removably fitted in said body, said refill element including a hollow body having a centrally apertured downwardly and inwardly tapering top wall extending to a point above and in close proximity to the central portion of the bottom of said hollow body, the hollow body and its top wall being relatively stiff, and a paper closure for the bottom of said hollow body.

1,676,133. MEANS FOR ATTACHING FLUE PIPES IN CHIMNEYS. RICHARD P. COLLINS, Norwood, Pa. Filed Oct. 4, 1926. Serial No. 139,510. 3 Claims. (Cl. 126—280.)



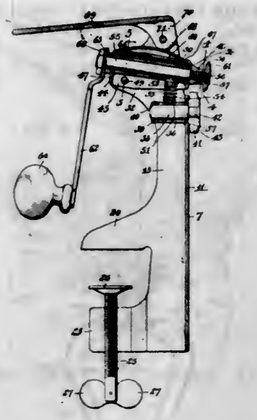
1. Means for attaching a flue pipe in a chimney comprising a plate adapted to be secured in an opening in the chimney, said plate having an opening for the reception of a flue, clean-out openings at the respective ends of the plate and on opposite sides of said flue opening, a closure element for each of said clean-out openings, and locking means for said closures effective in either one of the two alternate positions of the plate and the one in which the respective clean-out openings are respectively at top and bottom.

1,676,134. APPARATUS FOR TREATING BOILERS AND BOILER-FEED WATER. ROBERT E. COUGHLAN, Chicago, Ill. Filed Feb. 16, 1925. Serial No. 9,390. 2 Claims. (Cl. 210—36.)



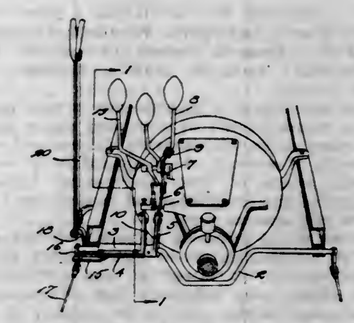
1. In a device of the character described, the combination with a feed water pipe, of a tank to contain material for feed water or boiler treatment provided with a normally closed filling opening, said tank formed on its lower side with an integral hollow elongated member adapted to be interposed in, and form a part of, said feed water pipe, and a nipple extending from said hollow member upwardly into said tank and inclined toward said opening, to facilitate the cleaning of said nipple through said opening.

1,676,135. CAN OPENER. FREDERICK A. CUYLER, Rochester, N. Y., assignor to Otto W. Cuyler, Model City, N. Y. Filed June 26, 1925. Serial No. 39,693. 8 Claims. (Cl. 30—3.)



1. In a can opener, two co-acting rotatable members, one rigidly supported and the other movable toward and from said rigidly supported member, manually-operated means to move one of said members toward the other, automatic means for separating said members, and means serving to allow limited separation of said members when one is moved toward the other.

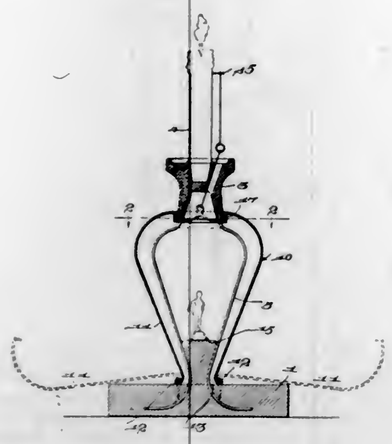
1,676,136. BRAKE ATTACHMENT FOR MOTOR VEHICLES. JAMES LEWIS DAVIS, Adrian, Mo. Filed June 10, 1927. Serial No. 197,933. 1 Claim. (Cl. 74—39.)



In a motor vehicle including a controller shaft, arms connected with the shaft, brake rods connected with the arms, a brake pedal, a clutch pedal and a hand lever, an arm connected with the controller shaft, a bar clamped to the brake pedal, a link connecting the bar with the last mentioned arm so that the depression of the pedal will rock the shaft to apply the wheel brakes, a rotatable member on the controller shaft, a cam or speed lever carried thereby for engaging the clutch pedal operating means to release the clutch when the member is rotated, an arm on said rotary member extending in rear of one of the brake rod arms on the controller shaft to rock the shaft when the member is rotated to apply

the wheel brakes, a second arm attached to the arm on the rotary member and a clamp on the second arm for engaging the hand lever which is separated from the controller shaft.

1,676,137. FAVOR DISTRIBUTOR. WILLIAM E. DODGE, Shawnee, Okla. Filed July 17, 1926. Serial No. 123,138. 8 Claims. (Cl. 240—2.)



1. A favor distributor comprising a base, a receptacle made up of a plurality of sections having their lower ends connected to the base, means to receive and cooperate with the upper ends of the sections for holding them in position for forming a closed receptacle, and a release for said means.

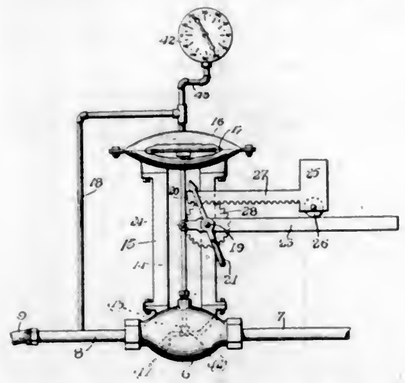
1,676,138. PROCESS OF PROVIDING A NEW FOOD PRODUCT AND IMPROVED PRODUCT PRODUCED THEREBY. ALBERT K. EPSTEIN, Chicago, Ill. Filed Dec. 29, 1924. Serial No. 758,576. 8 Claims. (Cl. 99—11.)

4. As a new article of manufacture, a food product comprising proportionately approximately eighty pounds of wet pressed casein, approximately eighteen and seven-tenths pounds of cocoanut oil and approximately one and three-tenths pounds of edible hydrogenated cottonseed oil comminuted and commingled and molded into a relatively firm homogeneous mass.

5. The method of producing an article of food which consists of commingling casein and cocoanut oil and edible hydrogenated cottonseed oil, said cottonseed oil having a melting point sufficiently high to substantially raise the normal melting point of the cocoanut oil, cooling the mixture to a temperature above freezing until the mass becomes a hard rigid body, and then comminuting the mixture into a macerated state.

1,676,139. TIRE-INFLATING APPARATUS. OLIN F. FLUMERFELT, Hamburg, N. Y. Filed Sept. 24, 1926. Serial No. 137,616. 2 Claims. (Cl. 50—4.)

1. An automatic tire inflating apparatus comprising a shut-off valve having an inlet adapted for connection with a source of supply of air under pressure and an outlet adapted for connection with a tire inflation hose, a weighted lever normally acting to open said valve, means including a pressure responsive device subjected to the air pressure at the outlet side of said valve for closing the latter against the action of said weighted lever, and means including a manually adjustable pressure indicator rotatable about the pivotal axis of said weighted lever



for shifting the weight of the latter to vary the pressure required to be subjected to the pressure responsive device for effecting closing of said valve.

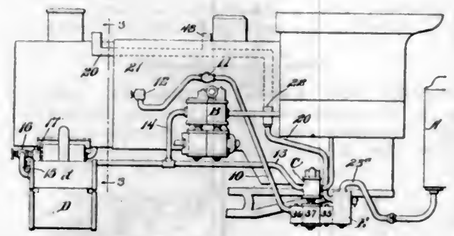
1,676,140. PEEPHOLE FOR DOORS. WILLIAM FRANKEL, Astoria, N. Y. Filed Nov. 30, 1926. Serial No. 151,698. 1 Claim. (Cl. 20—39.)



A peephole device for doors, comprising an annular rim having spaced inwardly extending means providing an annular groove within the rim, said rim having an outwardly extending flange for engagement against the side of a door about an opening therein to support the rim in the opening, a mirror having an opaque coating on its rear side mounted in the groove between the inwardly extending means of the rim and facing outwardly therethrough, a protective transparent disc mounted in said groove against said opaque coating, a portion of said coating of the mirror being removed to provide a sight, and an opaque cover pivoted to the device for covering the inner side of the rim and adapted to be swung on its pivot to one side of the rim to permit inspection of outside objects through the device.

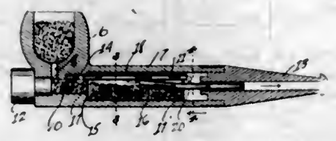
1,676,141. FEED-WATER HEATER FOR LOCOMOTIVE BOILERS. LEE O. GARRAWAY, Memphis, Tenn. Filed Oct. 8, 1925. Serial No. 61,297. 3 Claims. (Cl. 122—442.)

1. The combination with a locomotive having engine cylinders and steam chests therefor having exhaust ports, a discharge pipe connecting said ports and leading therefrom, a feed water pump disposed upon one side of the engine and having a water outlet connected to the boiler of the engine, and an air pump disposed on one side of the engine and having an exhaust port, of a feed water heater connected on one side to a source of water supply and on the other side to said water pump, an oil separator, an exhaust pipe leading longitudinally along the engine from the exhaust of said water pump, a pipe leading the exhaust from said port of the air pump to said longitudinally extending pipe, said longitudinally extending pipe being operatively connected through said discharge pipe to said oil separator, a pipe leading from the oil separator and passing upward and around the boiler of the engine, then extending longitudinally beneath the lagging of the boiler rearward and then downward and



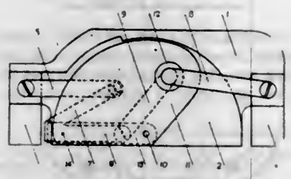
then extending out from beneath said lagging and then entering the heater for supplying exhaust steam from said sources for heating feed water in said heater.

1,676,142. TOBACCO PIPE. SKÚLI GUNNLAUGSSON, Rio Vista, Calif. Filed Sept. 10, 1927. Serial No. 218,712. 1 Claim. (Cl. 131—12.)



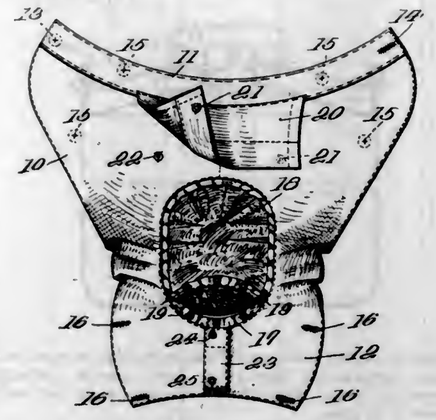
In a tobacco pipe, a bowl, a barrel formed integral with said bowl and having a chamber formed therein, a passage extending between said bowl and said chamber, a centrally bored stem detachably secured in one end of said barrel, an absorbent holding container positioned in said chamber, said absorbent holder having end pieces of the same diameter as the bore in said barrel, one of said end pieces having an opening therein, said absorbent holder being of less length than the chamber in said barrel, a tube extending through said absorbent holder and projecting beyond the ends of said absorbent holder, a second tube extending through one end of said absorbent holder in such a manner that one end of the tube passes into said absorbent holder and has its opposite end positioned in said bored stem for the purpose specified.

1,676,143. CIRCUIT BREAKER. MARK STAVELEY HOBAN, London, England. Filed Sept. 20, 1926, Serial No. 136,484, and in Great Britain Oct. 12, 1925. 2 Claims. (Cl. 200—151.)



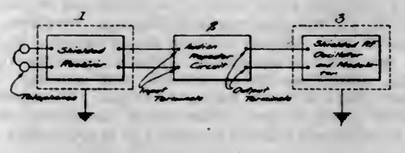
1. A circuit breaker for an electric circuit comprising a pair of contacts, a member of insulating material carrying a conducting stud and movable in relation to said contacts to bring the stud into engagement therewith or to move it therefrom, spring means to move said member, a detent to hold up said movement, and a V-shaped bimetallic strip member electrically connected in the circuit of the pair of contacts and bent at its apex to co-operate with the detent and release the movable member on the strip becoming heated.

1,676,144. DIAPER. ELI M. HOUSEKNECHT, Thurmond, W. Va. Filed Sept. 23, 1925. Serial No. 58,051. 1 Claim. (Cl. 128—284.)



A garment comprising a body portion made in two longitudinal sections, and means connecting the inner edges of the sections together for forming a waist portion and an extension, said body having an opening formed therein between the waist portion and the extension and adapted to receive a sack, the inner edges of the sections of the extension being cut on an angle with respect to the inner edges of the sections of the waist portion for producing a fullness in the garment when attached together between the waist portion and the extension, said extension being laid upon the waist portion and attached thereto and causing the inner edges of the sections through the center of the garment to be drawn inwardly for taking up the fullness and producing an inverted V-shaped crotch below the waist portion of the garment.

1,676,145. METHOD OF AND MEANS FOR ADJUSTING AUDION CIRCUITS. LEWIS M. HULL, Boonton, N. J., assignor to Radio Frequency Laboratories, Incorporated, Boonton, N. J., a Corporation of New Jersey. Filed July 14, 1925. Serial No. 43,633. 14 Claims. (Cl. 179—171.)

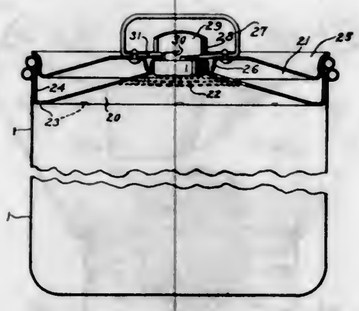


1. In the process of adjusting an audion repeater circuit to limit interaction between the input and output branches of said circuit, the steps which comprise impressing an oscillatory voltage upon the output branch of said circuit and receiving resulting currents in the input branch of said circuit.

1,676,146. SAFETY COVER FOR COOKING VESSELS. BRUNO A. KRAFFT, San Francisco, Calif. Filed Nov. 14, 1923. Serial No. 674,767. 4 Claims. (Cl. 53—1.)

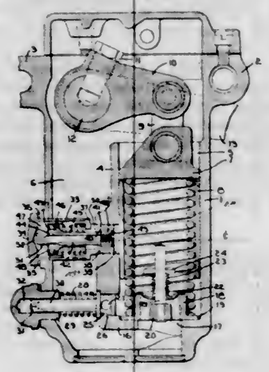
1. A covering for a cooking vessel comprising spaced apart inner and outer cover members each extending over substantially the entire interior of the vessel, said inner

cover having openings therethrough near the center thereof to permit the boiling material to escape, said outer cover having a large opening through its middle portion, and an upwardly extending handle member



mounted on the inner cover and extending through said large opening and having its upper portion normally accessible to the hand of the operator while the outer cover is in place.

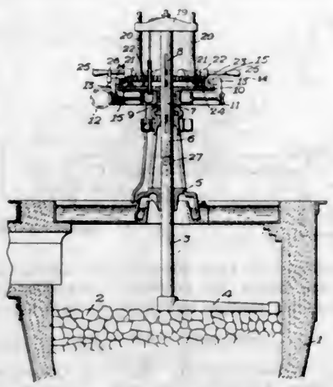
1,676,147. SHOCK ABSORBER. RALPH M. LOVEJOY, Boston, Mass. Filed May 29, 1926. Serial No. 112,433. 15 Claims. (Cl. 267—8.)



1. A hydraulic shock absorber for cushioning the movement of two relatively movable members, comprising a compound valve having yieldable means operable to relieve the initial resistance of the shock absorber to a sudden relative movement between said members and pressure operable means acting to produce, for a predetermined period of time, progressively increasing resistance to continued relative movement of said members.

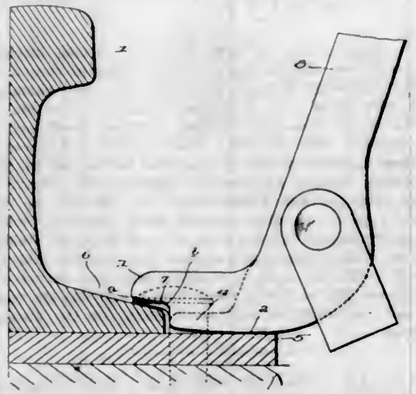
1,676,148. GAS PRODUCER. CHARLES W. LUMMIS, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts. Filed June 27, 1919. Serial No. 307,136. 2 Claims. (Cl. 48—85.2.)

1. In a gas producer, an agitating member for the fuel bed in said producer, continuously rotating actuating means adapted normally to impart rotation to said agitating member at a predetermined fuel level in the producer, means for rendering said actuating means wholly inoperative for the rotation of said agitating member in the event of undue resistance to said rotation at said predetermined fuel level, means for applying the rotation of said actuating means to the elevation of said agitating member while said undue resistance prevails, and means periodically operative during the elevation of



said agitating member for applying pressure against said resistance through the continued rotation of said actuating means.

1,676,149. CLAW BAR. THOMAS MANEY, Louisville, Ky. Filed June 10, 1927. Serial No. 197,884. 3 Claims. (Cl. 254—25.)



1. A claw bar having a claw carried thereby, and provided with offset claw points.

1,676,150. PNEUMATICALLY-DRIVEN SHIP. JOHN HENRY MAWBY, West Midland, Western Australia, Australia. Filed Jan. 15, 1927, Serial No. 161,386, and in Australia Oct. 25, 1926. 2 Claims. (Cl. 115—15.)

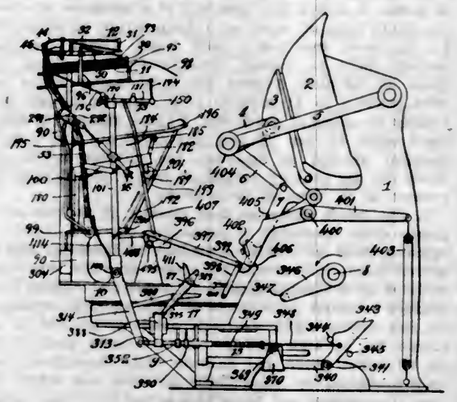


1. The combination with a hull and a fluid compressor therein, of a propelling and steering device for the hull comprising an open tube flared at both ends, a grate fitted across each end of said tube, oppositely directed nozzles mounted centrally of the tube, said nozzles being in communication with the compressor, and steering means mounted in the walls of said tube and in the path of the fluid projected from one of the nozzles.

1,676,151. FILTERING MATERIAL AND PROCESS OF FILTERING. RALPH H. MCKEE, New York, N. Y. Filed Sept. 16, 1924. Serial No. 738,106. 4 Claims. (Cl. 210—203.)

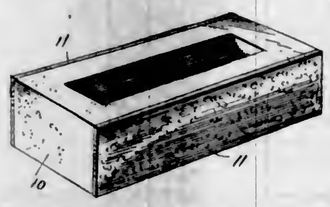
1. A material for use in purifying water consisting of the untreated residue obtained in the distillation of oil shale.

1,676,152. AUTOMATIC FEEDER FOR PRINTING PRESSES. LEWIS E. MORRISON, Newark, N. J., assignor to American Type Founders Company, a Corporation of New Jersey. Filed Apr. 9, 1925. Serial No. 21,777. 47 Claims. (Cl. 101—287.)



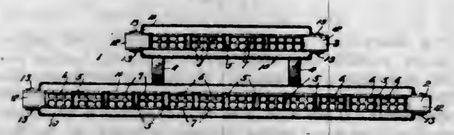
1. The combination of an automatic paper feeding mechanism for feeding paper to printing position in a printing machine, pneumatic paper separators therein, pneumatically actuated means for operating said mechanism and an air pump for driving said pneumatically actuated means and for applying suction to the said paper separators.

1,676,153. CONCRETE BUILDING BLOCK AND METHOD OF MAKING SAME. HARMON S. PALMER, Washington, D. C. Filed Mar. 22, 1927. Serial No. 177,412. 7 Claims. (Cl. 25—155.)



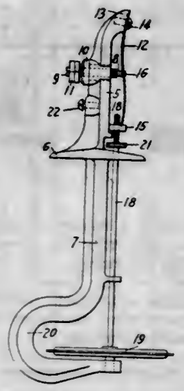
I. A concrete building block having a lamination of sugar cane fibre joined thereto by the cement of the block the lamination having an adherent nature.

1,676,154. ACCOMPANIMENT HARMONICA. SAMUEL A. PERRY, New York, N. Y. Filed Nov. 6, 1926. Serial No. 146,614. 4 Claims. (Cl. 84—377.)



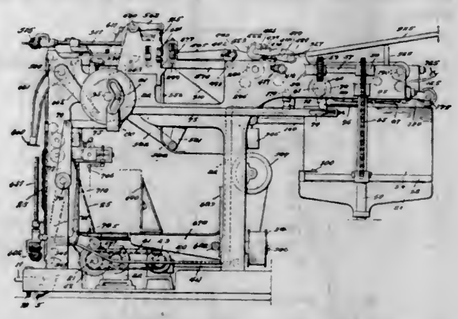
1. A harmonica with a series of mouth openings divided into groups separated by a spacer of substantially a mouth opening in width.

1,676,155. CIRCUIT BREAKER AND CLOSER. FERDINAND A. PFEIFER, Springfield, Ohio, assignor of forty-nine per cent to Ellsworth Craig, Springfield, Ohio. Filed Mar. 16, 1927. Serial No. 175,684. 12 Claims. (Cl. 200—140.)



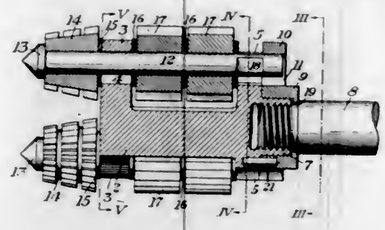
1. In a device of the character described, an elongated resilient member, supports for the respective ends of said resilient member, one of said supports being movable toward the other support, said supports being arranged normally to impart a double curve to said resilient member which will tend to move an intermediate portion thereof in a direction transverse to its length, and means for actuating said movable support to so modify the curvature of said resilient member that said intermediate portion thereof will be moved in a direction opposite to the first mentioned movement.

1,676,156. WIRE-STITCHING FOLDING MACHINE. EARL D. RADER, Bedford, N. Y., assignor to Dexter Folder Company, New York, N. Y., a Corporation of New York. Filed Dec. 8, 1922. Serial No. 605,742. 67 Claims. (Cl. 270—37.)



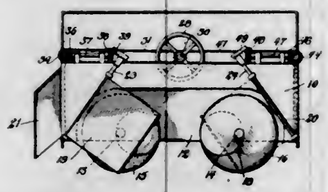
1. A bindery finishing unit, comprising folding mechanism, conveying mechanism carrying sheets to said folding mechanism, a plurality of superposed means from which sheets are fed to said folding mechanism by said conveying mechanism, said means including an automatically controlled pile elevating mechanism, and a frame supporting all of said mechanisms, whereby said frame and the mechanisms supported thereon may be moved together from place to place as desired.

1,676,157. TUBE CLEANER. JAMES P. RODGERS, Pittsburgh, Pa., assignor to Elliott Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 9, 1924. Serial No. 705,209. 9 Claims. (Cl. 15—104.14.)



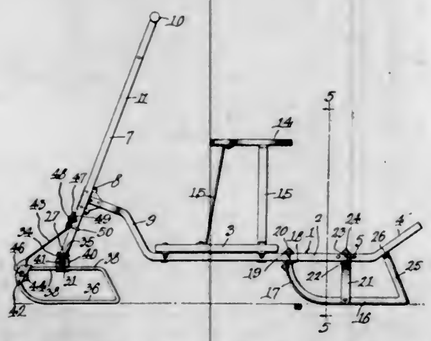
1. In a tube cleaner, a head, a cleaning element, means on the head for supporting the element to be bodily movable outwardly therefrom, the element having a recess in at least one side thereof, and means on the head for cooperating with such recess for holding the element against movement axially of the head while in any operating position thereon.

1,676,158. PROPELLING AND STEERING MEANS FOR POWER SPEED BOATS. WILLIAM J. ROE, Newburgh, N. Y. Filed Sept. 30, 1926. Serial No. 138,750. 5 Claims. (Cl. 115—37.)



1. The combination with a boat having propelling means consisting of a pair of oppositely driven oppositely spiralled blades, of a steering mechanism including a pair of rudder blades each mounted upon a laterally angular fulcrum in rear of each of the propellers, each of said blades normally swung to an inactive position above the water and swingable to an active position in the water.

1,676,159. SLED. JOSEPH W. ROTH, New Brunswick, N. J. Filed Aug. 13, 1927. Serial No. 212,732. 6 Claims. (Cl. 280—16.)



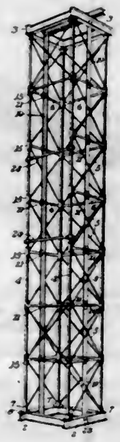
2. In a device of the class described, a body, means for supporting the rear end of the body, a steering standard pivoted on the forward end of the body, an axle mounted on the standard, angle brackets comprising bodies and depending arms, means for securing the bodies of the angle brackets to the ends of the axle, runners, and means for securing the runners to the arms of the angle brackets.

1,676,160. FOOD PRODUCT AND PROCESS OF MAKING THE SAME. MEYER F. RUFFNER, Washington, D. C., assignor to Potato Waffles Inc., New York, N. Y., a Corporation of Delaware. Filed June 8, 1925. Serial No. 35,763. 7 Claims. (Cl. 99—11.)

5. The process of preparing a food product of the character described comprising immersing perforated slices of potato of lattice like form and of a thickness of about one-eighth inch in water at a temperature of about 62° F., for about two and a half hours, drying the thus treated slices at normal atmospheric temperature for about 30 minutes, cooking the thus treated slices for from about 8 to 11 minutes at a temperature not materially in excess of about 400° F. in a mixture of about equal parts of corn oil and cottonseed oil free from a material amount of stearine, the mixture containing about one per cent by volume of tallow, and drying the product at an elevated temperature.

7. The herein described food product of the nature of potato chips consisting of perforated slices of potato of approximately one-eighth of an inch in thickness and of lattice like form, wherein the starch granules have been modified by prolonged soaking in water and cooking in a mixture of about equal parts of corn oil and cottonseed oil and containing a relatively small proportion of an animal fat of high stearine content, such product being of a distinctive and uniform taste throughout, not readily affected by atmospheric moisture and which retains its crispness and flavor unimpaired for a long period of time.

1,676,161. TOWER. MORGAN B. SCHILLER and OLIVER J. HALLER, Pittsburgh, Pa., assignors, by mesne assignments, to American Tubular Elevator Company, a Corporation of Pennsylvania. Filed Mar. 26, 1924. Serial No. 701,952. 1 Claim. (Cl. 189—13.)



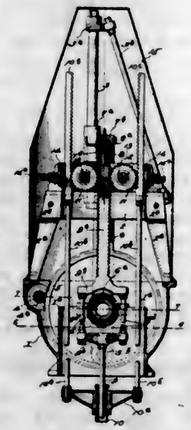
A knockdown elevator tower comprised of sectional corner posts, a base structure in which the corner posts are removably set, connectors uniting the sections between the corner posts, diagonal and horizontal girts on two sides of the tower having their ends bolted to connectors, sectional elevator guides secured to some of the girts on said two sides of the tower, and horizontal girts on another side of the tower clamped to the leg sections thereof between the connectors.

1,676,162. ARCH SUPPORT. RUDOLF SCHILLER, Brooklyn, N. Y. Filed Aug. 20, 1925. Serial No. 51,409. 1 Claim. (Cl. 36—71.)



An arch supporter insertible in a shoe, comprising upper and lower sheets of flexible material extending the length of the shoe, said sheets being unattached from the ball portion rearwardly to the heel, an inflatable pad adapted to be inserted between said sheets under the arch, said pad containing a core of sponge rubber, and means for detachably securing the sheets at their rear end, said means also detachably securing the supporter to the shoe to prevent displacement thereof.

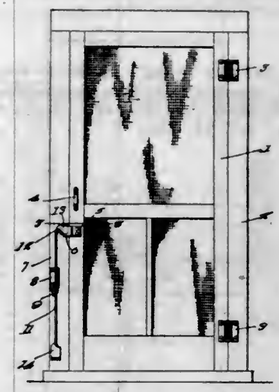
1,676,163. DOUBLE-STROKE WORKING HEAD. HENRY SCHLACHTER, Beatrice, Nebr., assignor to Dempster Mill Manufacturing Company, Beatrice, Nebr., a Corporation of Nebraska. Filed May 18, 1926. Serial No. 109,948. 20 Claims. (Cl. 103—200.)



1. In combination, in a double stroke working head, pump rods, a supporting gear case, twin crank wheels mounted in said case, an elevated vertically reciprocatory cross head, twin pitmen for reciprocating said elevated cross head from said wheels, and rack and pinion means connecting the pump rods for simultaneously and oppositely reciprocating the pump rods, said rack and pinion means being coupled to and actuated by said cross head.

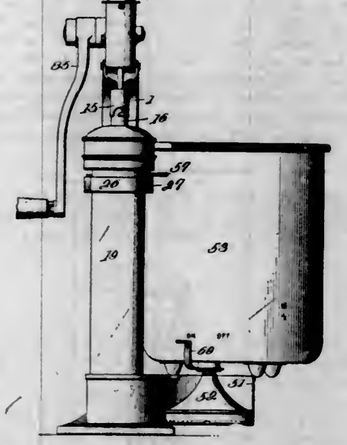
1,676,164. DOOR-OPERATING DEVICE. DANIEL H. SCHLAEGEL, Wadena, Minn. Filed Nov. 27, 1925. Serial No. 71,727. 1 Claim. (Cl. 268—36.)

Means for opening a door hinged in a casing by the pressure of the foot of a person approaching the door comprising an angle keeper secured to the one hinged side of the door and projecting therebeyond, an angle bracket fixed on the door casing below the keeper, a bar pivotally secured to the outer arm or angle bracket, said bar being bent in its upper extension at mid-point and at the pivotal point and the bends being opposite, the extremity of the upper extension having its end formed with a lateral flange providing a finger which is disposed to be at all



times contracted by the keeper on the door, and the opposite lower end of the bar having a flat angularly disposed projection providing a foot pedal.

1,676,165. CREAM SEPARATOR. PHILIP M. SHARPLES and DAVID TOWNSEND SHARPLES, West Chester, Pa., assignors to Sharples Separator Company, West Chester, Pa., a Corporation of Pennsylvania. Filed Aug. 2, 1922. Serial No. 579,200. 11 Claims. (Cl. 233—21.)



1. In a device of the class described, the combination of a rotatable bowl, a drag bush surrounding the free end thereof and a bowl barrel surrounding the rotatable bowl, and contacting with said bush so as to act as a drag weight for said bush.

1,676,166. FOOD-PRODUCING PROCESS AND IMPROVED PRODUCT PRODUCED THEREBY. LOUIS SOKOLSKY, Chicago, Ill., assignor to Albert K. Epstein, Chicago, Ill. Filed Dec. 29, 1924. Serial No. 758,578. 5 Claims. (Cl. 99—11.)

1. As a new article of manufacture, a food product comprising chilled wet casein of skim milk and cocoanut oil comminuted and commingled and pressed into a homogeneous self-sustaining rigid mass.

2. The method of producing an article of food which consists in commingling wet casein and cocoanut oil by

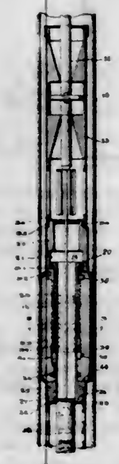
mixing the casein and oil while the latter is in a fluid state, then reducing the mixture while chilled to a comminuted state, and then solidifying the comminuted material into a self-sustaining form.

1,676,167. SAFETY HOOK. JOSEPH E. SPRAIN, Smackover, Ark., assignor to Vickers Machine Works, Smackover, Ark. Filed July 21, 1927. Serial No. 207,471. 3 Claims. (Cl. 24—241.)



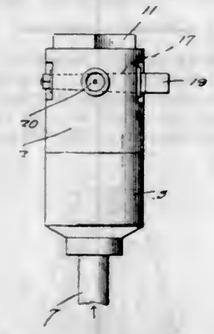
1. A snap hook comprising a shank, a bill at one end of said shank, a collar carried by said shank, a sleeve rotatable upon said shank and slidable thereon towards and away from the collar, an arm extending from said sleeve to engage the free end of said bill, the sleeve and collar having adjacent ends provided one with a lug and the other with circumferentially spaced seats to receive said lug and releasably secure the sleeve in a set position, and resilient means yieldably retaining said sleeve in a normal position with its arm engaged with said bill.

1,676,168. PACKING FOR OIL WELLS. CHARLES STARYSKY, Marysville, Tex. Filed Jan. 13, 1927. Serial No. 160,990. 1 Claim. (Cl. 166—10.)



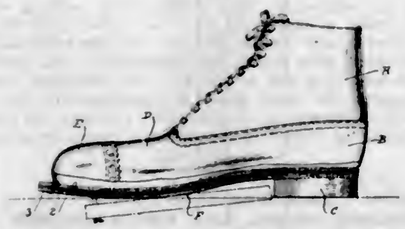
A packing comprising a cylindrical member having an enlarged portion provided with a chamber, a second cylindrical member received within the first member and having a stop ring movable in said chamber for limiting the movement of the first mentioned member relative to the second member, each of said members has cooperating corrugations and ribs for locking the members together when the first mentioned member is moved relative to the second member, the first member having spring fingers carrying said ribs for facilitating the locking of the sections together; a shoulder carried by each member and an expansible and contractible sleeve embracing the members and having an end in engagement with a shoulder of the member, said spring fingers being located between the opposite ends of the sleeve, said sleeve being adapted to be compressed when the members are moved into locking relation with each other, the opposite ends of the expansible and contractible sleeve being provided with an annular groove and a rib on each cylindrical member adapted to be received within a groove of the sleeve.

1,676,169. PRESSURE-RETAINING VALVE. CHARLES TRANSUE, Mount Jewett, Pa. Filed Jan. 5, 1927. Serial No. 159,147. 2 Claims. (Cl. 303—77.)



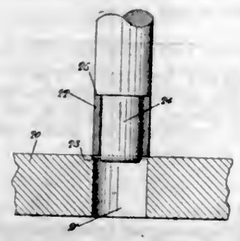
1. A pressure retaining valve of the class described comprising a body composed of upper and lower detachably connected sections formed with a passage extending entirely therethrough, a reciprocatory valve located in said passage for closing one end of the passage, a spring for normally moving said valve to one position, the valve being adapted to be moved to its other position under the action of the air pressure, and a rotary ported manually actuated valve carried by said body and cooperative with said air passage.

1,676,170. PROTECTIVE ARMOR. ARTHUR E. TROIEL, Berkeley, Calif. Filed Mar. 23, 1927. Serial No. 177,565. 5 Claims. (Cl. 36—73.)



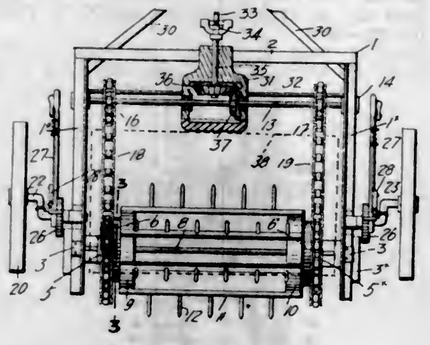
1. A flexible protective armor consisting of a plurality of superposed layers of metallic plates, said plates being laid side by side in each layer with the plates in one layer staggered with relation to the plates in an adjacent layer and means whereby the plates in the respective layers are secured against displacement with relation to each other.

1,676,171. METHOD OF INSERTING BEARINGS IN BEARING RECESSES. ALBERT H. VALENTINE, Dayton, Ohio, assignor to Moraine Products Company, Dayton, Ohio, a Corporation of Ohio. Filed Dec. 15, 1925. Serial No. 75,580. 3 Claims. (Cl. 29—149.5.)



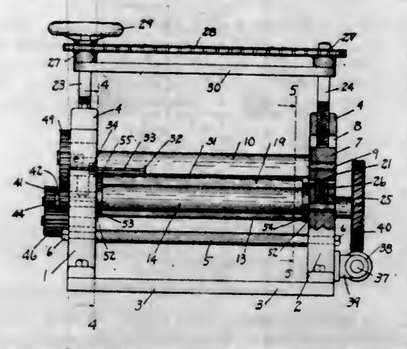
1. The method of providing the cylindrical recess of a bearing support with a lining of bearing material, which consists in forming a tubular porous metal bearing having an outside diameter greater than the diameter of the recess for receiving the bearing and having an inside diameter greater than is necessary for proper running clearance for the shaft journal which is to be received by the bearing; in assembling the bearing tube upon a mandrel having a diameter substantially equal to the diameter of the required shaft journal; and in producing relative movement between the bearing support and the assembled bearing tube and mandrel in order to press fit the tube within the recess of the bearing support and to reduce the diameter of the bearing tube to that of the mandrel.

1,676,172. CULTIVATOR AND WEED DESTROYER. DANIEL WEBSTER WARNER, near Edmonton, Alberta, Canada. Filed Oct. 17, 1927. Serial No. 226,752. 1 Claim. Cl. 97—40.)



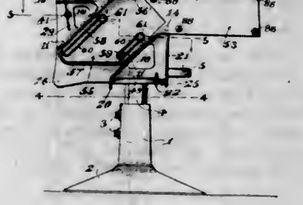
A cultivator and weed destroyer comprising a horizontally set U-shaped frame, a spiked cylinder revolvably mounted between the side bars of the frame, a sprocket gear at each end of the cylinder, a pawl and ratchet connection between each sprocket and cylinder, a main drive shaft extending longitudinally of the machine, a transverse supplemental drive shaft, a driving connection between the main drive shaft and transverse shaft, a sprocket drive between the transverse shaft and each of the aforesaid sprocket gears, and carrier wheels for the frame.

1,676,173. BENDING MACHINE. FREDERICK J. WERMES, Norwood, Ohio, assignor to S & W Machine Company, Cincinnati, Ohio, a Partnership composed of Frederick J. Wermes and Robert H. Steltenpohl. Filed Dec. 26, 1925. Serial No. 77,760. 6 Claims. (Cl. 153—54.)



1. A metal bending machine, including a frame, supporting rollers journaled in said frame, floating rollers carried by the supporting rollers, means for driving the supporting rollers all in the same direction, and a bending roller journaled in the frame and spaced from the floating rollers.

1,676,174. ARTICLE OF FURNITURE. WILLIAM J. BARGEN, Missoula, Mont. Filed July 1, 1926. Serial No. 119,870. 11 Claims. (Cl. 155—128.)

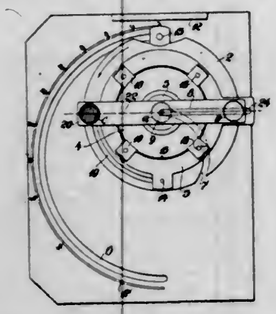


1. An article of furniture for the purpose set forth comprising a vertically adjustable chair, a supporting pedestal for the chair and including a base providing a sole means for anchoring the pedestal in a stationary position, said chair including a seat having one side thereof free of a side rail and its other side provided with a side rail in the form of an upstanding plate, a study support arranged forwardly of the seat, and said study support and side rail having coacting means for detachably connecting the study support to the said side rail and further to provide for the bodily shifting throughout of the study support upwardly and forwardly from the seat simultaneously and downwardly and rearwardly towards the seat simultaneously to adjust the study support with respect to the seat.

1,676,175. CENTERING DEVICE FOR USE IN MACHINING CRANK SHAFTS, ECCENTRICS, OR THE LIKE. JOHANNES BENZ, Dusseldorf, Germany. Filed Dec. 31, 1927, Serial No. 243,897, and in Germany May 30, 1925. 10 Claims. (Cl. 82—9.)

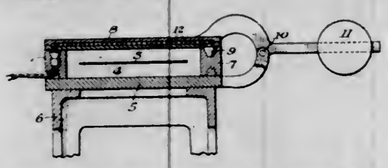
1. A centering device for use in machining crankshafts, eccentrics and the like on lathes, grinders and other machines, comprising a faceplate adapted to be mounted

in the machine, a rockable carrier pivoted on the faceplate, an auxiliary faceplate rotatable on the rockable carrier about an axis other than the pivotal axis of the latter, means for centering and clamping the work on



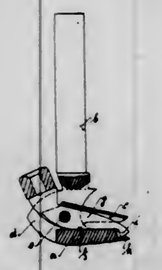
the auxiliary faceplate, and means whereby swinging movement imparted to the rockable carrier simultaneously and automatically turns the auxiliary faceplate about its own axis so that a predetermined radius continuously intersects the axis of the machine.

1,676,176. STRIP MILL. FLORENCE C. BIGGRAT, Jr., Crafton, Pa., assignor to United Engineering and Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 16, 1922. Serial No. 607,454. 9 Claims. (Cl. 80—2.)



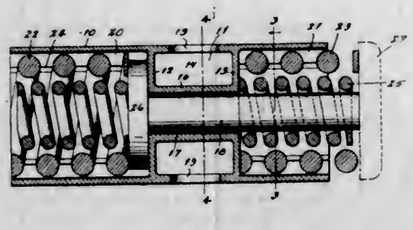
9. In a mill, material receiving means adapted to normally substantially surround the material being operated upon and having a wall thereof movable away from the material upon transverse movement of the material, such movable wall having connected thereto heating means for heating the material and being adapted to return to its normal position when not held outwardly.

1,676,177. KNOTTER FOR BINDING MOWERS AND STRAW BINDERS. AUGUST CLAAS, Harsewinkel, Germany. Filed Sept. 15, 1924, Serial No. 737,802, and in Germany Sept. 20, 1923. 1 Claim. (Cl. 289—11.)



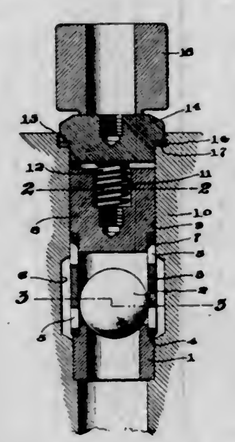
In a knotter for binding-mowers and straw-binders, the combination with the knotter foot, of a cup at the lower end of the latter, a stationary base member having a recessed front end and integral with said knotter foot and forming the bottom part of said cup, an upper member pivotally mounted in said cup, an abutment on said upper member limiting the downward movement thereof, a hand-operated tongue pivotally mounted within and on the same pivot as said upper member and adapted to be opened together with the latter but having still a free play of movement in downward direction when said upper member is stopped in its downward movement by said abutment, and a hook at the front end of said tongue adapted to engage more or less deeply in the recessed front end of said base member during the downward movement of said tongue.

1,676,178. DRAFT RIGGING. PERCY R. DRENNING, Baltimore, Md., assignor, by mesne assignments, to The Symington Company, New York, N. Y., a Corporation of Maryland. Filed Jan. 21, 1925. Serial No. 3,844. 5 Claims. (Cl. 213—48.)



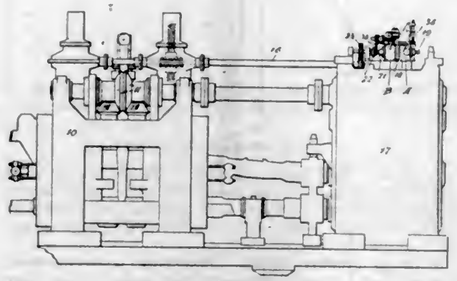
1. A draft gear having springs arranged in tandem, followers at a corresponding end of each of said springs, means connecting the followers and extending axially through one spring, and integral combined spacing and abutment means located between and engaging the follower of one spring and the adjacent end of the other spring and serving to direct the connecting means independently of the adjacent follower, whereby the combined length of both springs, both followers and the combined spacing and abutment means will correspond to the length of the cushion receiving pocket of a standard draft gear.

1,676,179. VALVE. WILLS M. FLEMING, Holyoke, Mass., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Apr. 30, 1927. Serial No. 187,755. 3 Claims. (Cl. 251—121.)



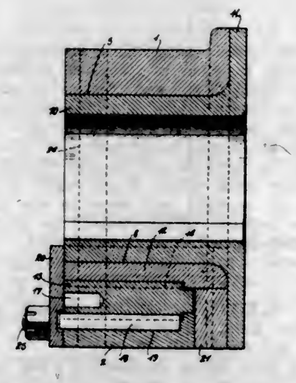
1. In a valve mechanism, a combination with a carrying body, of a valve seat, a valve cage, a pressure member engaging said cage, the fluid passages in said valve mechanism being confined to said body, valve seat and valve cage, whereby no fluid will pass through said pressure member, said valve cage having only frictional engagement with said valve seat and said valve seat, cage and pressure member having only frictional engagement with said body, whereby said seat and cage and said seat, cage and pressure member will be free to move under expansion and contraction.

1,676,180. REMOTE CONTROL FOR ROLLING-MILL SCREW DOWNS. DANIEL R. FRANCIS, Waterbury, Conn., assignor to The Waterbury Tool Company, Waterbury, Conn., a Corporation of Connecticut. Filed June 21, 1927. Serial No. 200,356. 6 Claims. (Cl. 80—56.)



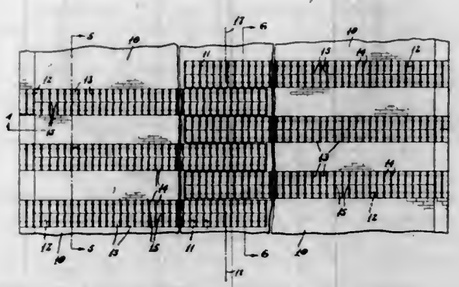
1. The combination with a rolling mill having cooperating rolls and adjusting screws to vary the gap between said rolls, of a variable speed transmission gear including a pump and motor, the latter having a rotatable driving shaft, gearing connecting said shaft and said screws, said pump having adjustable means to reverse or vary the output thereof and thereby cause the speed or direction of rotation of said motor to be varied, an electric motor for actuating said adjustable means, and means driven by said rotatable driving shaft to cause said adjustable means automatically to be moved in a direction opposite to that produced by said electric motor.

1,676,181. BEARING. FRANKLIN W. FRITCHEY, Cumberland, Md. Filed Apr. 16, 1927. Serial No. 184,270. 7 Claims. (Cl. 308—66.)



7. In a locomotive driving box, a box having an inner circular supporting surface, a sectional annular bushing within said circular supporting surface and of smaller outside diameter than the same, and circular wedges between said supporting surface and said bushing, the sections of said bushing being of such circumferential length as to form a closed cylinder around the journal of the driving wheel.

1,676,182. KILN BOTTOM AND METHOD OF BUILDING KILNS. CLAUD E. FULLER, New York, N. Y., assignor to New York Brick Handling Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 25, 1928. Serial No. 249,277. 5 Claims. (Cl. 25—132.)



1. In a structure of the kind described, the combination of a plurality of arches each of less length than the width of the structure and extending inwardly from either side thereof.

1,676,183. ATTACHMENT FOR RAZORS. JACOB N. GARFUNKLE, Cincinnati, Ohio. Filed May 3, 1927. Serial No. 188,585. 7 Claims. (Cl. 240—2.)

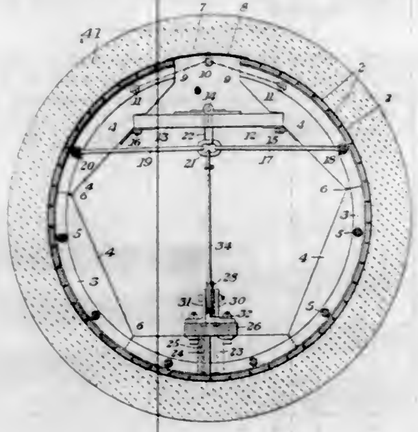


1. An attachment for a razor comprising a rectangular frame having an orifice therein, a reflector pivotally mounted in said frame, a lamp secured to said frame, in combination with a safety razor adapted to detachably receive said frame between the blade and clamping members on one side and the handle on the other side whereby the free end of the pivoted reflector will engage the convex surface of the outer razor clamp.

1,676,184. FORM FOR CONCRETE AND THE LIKE. ELMER J. GASS and DAVID W. THURSTON, Detroit, Mich. Filed May 31, 1922. Serial No. 564,806. 9 Claims. (Cl. 25—131.5.)

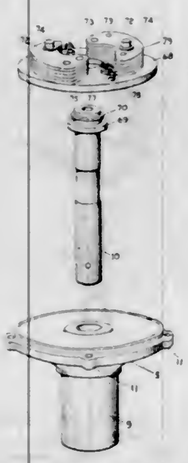
1. A form for concrete and the like, having a plurality of sets of toggles for holding the form in its expanded

position, a set of links for each set of toggles connected to opposite sides of the form and the toggles, and means



for operating all of said sets of links to break the toggles and to contract the form throughout its length, substantially as described.

1,676,185. COMBINED TIMER AND DISTRIBUTOR. CLARENCE F. GILCHRIST and HARRY R. PATTERSON, Toledo, Ohio, assignors, by mesne assignments, to The Electric Auto-Lite Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 24, 1921. Serial No. 439,521. Renewed Aug. 15, 1925. 25 Claims. (Cl. 200—22.)



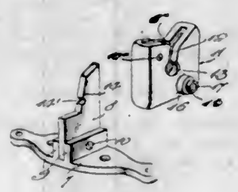
4. In a centrifugal device for an ignition timer, a rotatable supporting member, a weight having opposite substantially parallel faces, means whereby said weight may be pivotally mounted on said support with either the one or the other of said faces adjacent said support depending upon the direction of rotation, a restraining member for said weight extending parallel therewith, and means for attaching said restraining member at said weight at a point substantially midway its two faces whereby the effect of said restraining member is substantially the same with the weight mounted in either manner.

1,676,186. VALVE CONTROL FOR PLUNGER PUMPS. ROE C. HAWKINS, Long Beach, Calif., assignor of one-third to Frank E. Abbott, Long Beach, Calif. Filed Aug. 15, 1927. Serial No. 212,970. 9 Claims. (Cl. 103—221.)



1. In a plunger pump comprising a reciprocating plunger, and a standing valve, a ball check in said valve, a control rod, adapted to engage and seat said ball, and resilient means positioned between said rod and plunger whereby the rod is yieldingly urged against the ball by the plunger.

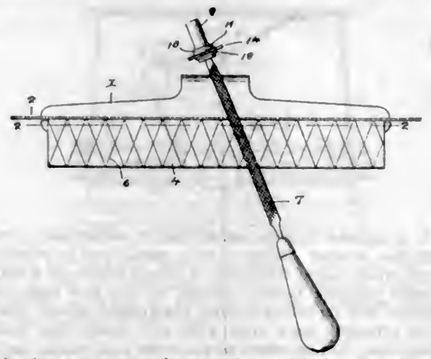
1,676,187. THREAD CLEANER. HARRY J. HUFFORD, Scranton, Pa. Filed May 13, 1927. Serial No. 191,149. 3 Claims. (Cl. 28—70.)



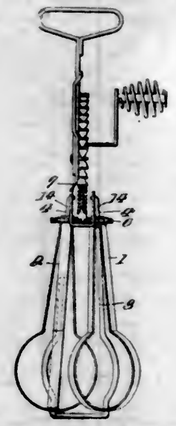
1. A thread cleaner comprising a blade and means for fixedly securing the same to a support, a sleeve slidably surrounding said blade and having thread-receiving throats in its opposite sides, said blade having a thread scraping edge disposed at one side of said throats, a second thread scraping blade having a scraping edge disposed at the opposite side of said throats, the two scraping edges being oblique to the length of the sleeve, and means for securing said sleeve to said first named blade after relative sliding thereof to disposed said scraping edges the desired distance apart.

1,676,188. SAW-FILING GUIDE. JAMES A. HUGUS, Fort Scott, Kans. Filed May 16, 1927. Serial No. 191,875. 2 Claims. (Cl. 76—31.)

1. A saw filing means including a clamp in which a saw to be sharpened is secured, an angle gauge plate having its vertical flange contacting with one of the faces of the saw and secured in the clamp, said plate having its horizontal flange inscribed with cross angle lines, to indicate the angle at which a file is to be directed during the saw sharpening operation, a member to which the outer end of the file is connected, a pointer on the member, and a gauge plate revoluble on the member having an outer pointed end and friction means for holding the graduated plate and member from free turning one on the other.



1,676,189. BEATER - BLADE SUPPORT. ERNEST N. HUMPHREY, New Britain, Conn., assignor to United Royalties Corporation, New York, N. Y. Filed May 6, 1926. Serial No. 107,216. 8 Claims. (Cl. 259—131.)

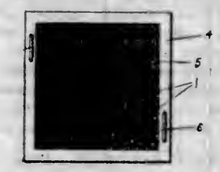


8. A beater comprising a frame having its lower end U-shaped, beaters below the said U-shaped end, a U-shaped supporting wire supporting said beaters, the parallel portion of the supporting frame having the horizontal openings above the lower end of the frame, the upper ends of the supporting frame extending along the parallel portions and its extremities bent in opposite directions and passing through the said openings, and means connecting the upper ends of the wire to the parallel portions, said means located between the bent ends of the rods and the lower end of the U-shaped frame.

1,676,190. RUBBER-BONDED ABRASIVE WHEEL AND METHOD OF MAKING SAME. PEHR JOHANSON and DUANE E. WEBSTER, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 18, 1925. Serial No. 51,042. 4 Claims. (Cl. 51—280.)

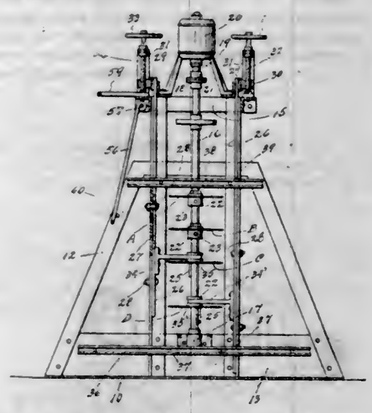
1. The improvement in the manufacture of rubber bonded abrasive articles, such as grinding wheels, which comprises incorporating in the rubber bond a wax in an amount sufficient to modify the properties of the vulcanized rubber bond and decrease the hardness of the bonded article.

1,676,191. FILTER MEDIUM FOR AIR FILTERS. ANDERS JORDAHL, New York, N. Y. Filed Aug. 20, 1924. Serial No. 733,151. 7 Claims. (Cl. 183—69.)



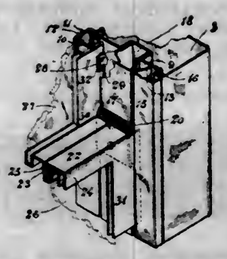
2. An air and gas filtration medium consisting of a plurality of layers of knitted fabric, each layer consisting of ribbon-like twisted metal strands which are adapted to be irregularly arranged relative to the strands of the other layers so that the loops and side portions of each strand form baffles for the reception and retention of dust particles and the irregularly arranged strands provide an interrupted path for the air current.

1,676,192. ICE-SCORING MACHINE. AUBREY M. LEE, Dallas, Tex., assignor to Simplex Ice and Manufacturing Company, Dallas, Tex., a Corporation of Texas. Filed May 25, 1927. Serial No. 193,452. 15 Claims. (Cl. 125—13.)



1. In an ice scoring machine, a frame, a vertical saw shafts mounted on said frame, circular saws carried by said shafts, one saw on each shaft being adjustable vertically thereon, and a hanger carried by the frame and connected with said adjustable saws for adjusting the same.

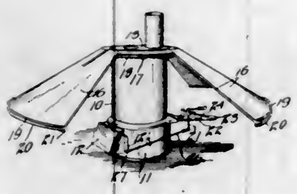
1,676,193. METALLIC WINDOW FRAME AND SASH. ROBERT E. LEE, Cincinnati, Ohio. Filed July 6, 1925. Serial No. 41,840. 12 Claims. (Cl. 189—75.)



1. In a metallic window construction having a frame and sashes, a jamb comprising a part of said frame and having on its outer side an inwardly turned flange posi-

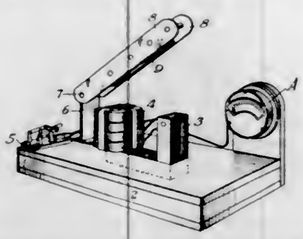
tioned intermediate the sides of said jamb, an angular member on the outer side of said jamb having an inclined flange, a jamb cover piece having a hooked edge adapted to engage said inclined flange and adapted to be in fitted fixed relation with said angular number, an upper and a lower sash having side rails, a parting strip secured to said jamb cover piece, and a block fixed to the outer side of said parting strip and adapted to close the openings between said jamb and said sashes when said sashes are in closed position.

1,676,194. FURNACE BROODER. FRED W. LORD, Tipton, Ind., assignor to the Oakes Manufacturing Company, Tipton, Ind. Filed Mar. 12, 1927. Serial No. 174,813. 8 Claims. (Cl. 119—32.)



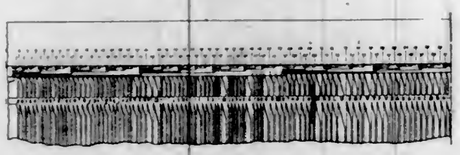
1. A brooder comprising a central upstanding supporting element, an overhanging depending annular canopy supported from the upper end of said supporting element said canopy comprising a plurality of slidably mounted sections slidable one over the other to afford access to the supporting element, substantially as set forth.

1,676,195. APPARATUS FOR TESTING COILS. JAMES F. MACWILLIAMS, Cresson, Pa. Filed Oct. 28, 1924. Serial No. 746,339. 1 Claim. (Cl. 175—183.)



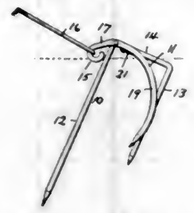
An apparatus for testing coils, comprising a core having a primary coil thereon and adapted to receive as a secondary the coil to be tested, and means for indicating the current flow through the primary coil, said primary coil comprising a plurality of units adapted to be connected in different relationship for use with circuits of different voltages.

1,676,196. TYPOGRAPHICAL DISTRIBUTING BAR. GEORGE E. MARLATT, Pasadena, Calif. Filed Nov. 13, 1926. Serial No. 148,301. 11 Claims. (Cl. 199—33.)



1. A single typographical distributing bar having distributing combinations in duplicate, the first of each duplicated combination being narrow and the duplication thereof relatively wider, for the purpose specified.

1,676,197. GROUND ANCHOR. JOHN MARRINAN, Washington, D. C. Filed May 4, 1926. Serial No. 106,628. 7 Claims. (Cl. 189—90.)



1. A ground anchor comprising a staple-like ground engaging member having a long prong and a relatively short prong spaced therefrom, a second relatively movable ground engaging member carried by the first mentioned member and including ground penetrating prongs and a cable attaching hook rigid with said prongs and means associating said members to force the penetrating prongs of the second mentioned member into the earth under tension of an attached cable.

1,676,198. RECORDING AND SALES-CHECK MECHANISM FOR FLUID-DISPENSING PUMPS. ARTHUR R. MASON and OTTO C. FAILING, Medford, Oreg., assignors to Accurate Gasoline Recording Company, a Corporation of Oregon. Filed Aug. 16, 1926. Serial No. 129,614. 6 Claims. (Cl. 164—65.)

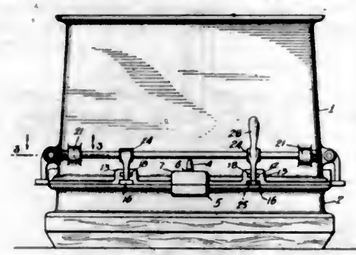


4. In a recording and sales check mechanism for fluid dispensing pumps, the combination of a casing having a discharge slot for the sales check strip, mechanism within the casing coupled to the pump operating mechanism to be actuated thereby and including means for feeding the strip through the said discharge slot, guide members exterior to the casing in line with the discharge slot thereof to receive between them the projecting end of the strip, and independent pressure means for bringing the guide members together to clamp the projecting end of the strip to facilitate the severing thereof.

1,676,199. MOLD SHELL. JOHN R. WOOD, Hatboro, Pa., assignor to New Process Multi-Castings Company, Newark, N. J., a Corporation of New Jersey. Filed May 29, 1925. Serial No. 33,605. 2 Claims. (Cl. 22—111.)

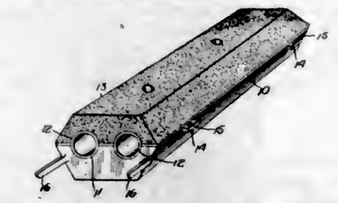
1. In combination, a mold cope having a longitudinal shoulder extending along the bottom of each of opposed inner faces and having openings extending outwardly through the cope wall from each of said shoulders, said openings having upwardly facing surfaces, disengageable mold retaining means comprising a slide extending inward'y from under each of said shoul'ders and movable

completely thereunder, means for holding said slides in operative position on said cope comprising members attached to the said slides and riding on said upwardly



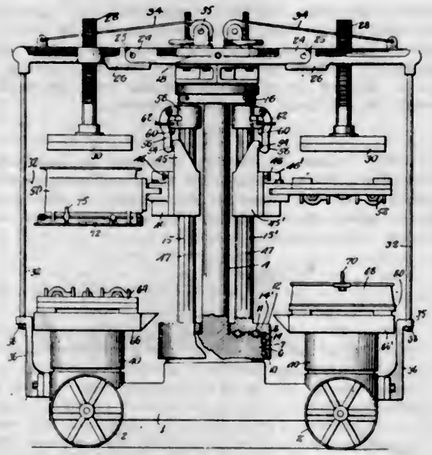
facing surfaces, and means for moving said slide into and out of the retaining and releasing positions comprising members attached to said slides and extending through to the outside of the cope.

1,676,200. POURING SHELL FOR PIPE MOLDS. JOHN R. WOOD, Hatboro, Pa., assignor to New Process Multi-Castings Company, Newark, N. J., a Corporation of New Jersey. Filed May 29, 1925. Serial No. 33,607. 2 Claims. (Cl. 22—192.)



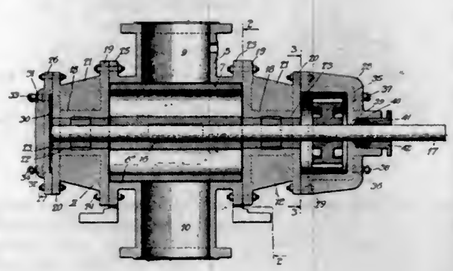
1. A shell for pipe cope molds comprising a longitudinal box open at its top and bottom, having flanges along the top edges of the shell having longitudinal slots therein adapted to adjustably receive braces across the top, and having pipe-core engaging recesses formed at its ends.

1,676,201. MOLDING MACHINE. JOHN R. WOOD, Hatboro, Pa., assignor to The New Process Multi-Castings Company, Incorporated, Newark, N. J., a Corporation of New Jersey. Filed Nov. 3, 1925. Serial No. 66,472. 5 Claims. (Cl. 22—25.)



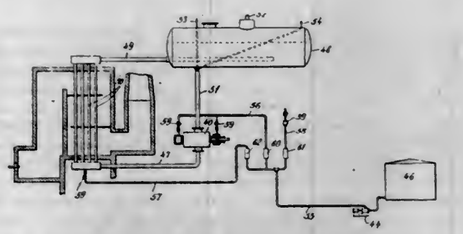
1. In a mold making machine, in combination, a plurality of sub-machines each comprising a support for a flask or pattern part permitting vertical movement of the part and movement thereof about a horizontal axis, means for moving a part mounted on said moving means, and means for bringing the part supported on one sub-machine above the moving means of another sub-machine.

1,676,202. CIRCULATORY CRACKING STILL AND PUMP THEREFOR. EDWARD W. ISOM, Winnetka, Ill., and JOHN E. BELL, Brooklyn, N. Y., assignors to Sinclair Refining Company, Chicago, Ill., a Corporation of Maine. Filed May 12, 1921. Serial No. 469,036. 6 Claims. (Cl. 103—126.)



2. In a circulatory oil cracking still having a still proper, heating pipes in a furnace and connections between said still and heating pipes, a circulatory pump arranged to circulate hot oil from said still to and through said heating pipes and back to the still, said pump having loosely fitting bearings and means for forcing relatively cool oil through said bearings into said pump and circulatory system.

1,676,203. OPERATION OF PRESSURE STILLS. EDWARD W. ISOM, Winnetka, Ill., and JOHN E. BELL, Brooklyn, N. Y., assignors to Sinclair Refining Company, Chicago, Ill., a Corporation of Maine. Filed Apr. 19, 1924. Serial No. 707,579. 8 Claims. (Cl. 196—59.)

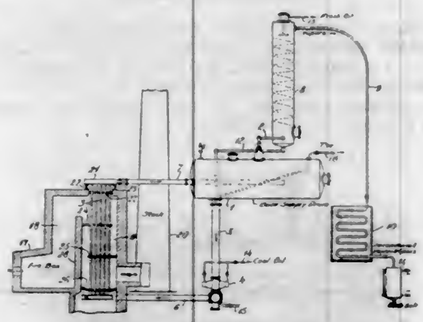


4. A method of cracking oil, which comprises circulating the oil from and to a bulk supply tank through a heater maintained at a cracking temperature by and through a circulating pump having a drive shaft in loosely fitting bearings while maintaining the oil under superatmospheric pressure, feeding fresh oil to the still and forcing a substantial part of this fresh oil through the pump bearings into the hot circulating oil.

1,676,204. OIL STILL. EDWARD W. ISOM, Scarsdale, N. Y., and ARNOLD CHARLES VOBACH, Whiting, Ind., assignors to Sinclair Refining Company, Chicago, Ill., a Corporation of Maine. Filed Feb. 12, 1927. Serial No. 167,680. 1 Claim. (Cl. 196—108.)

In tubular oil cracking pressure stills, a bulk supply drum, a battery of heating tubes connected in multiple, and means for circulating heating gases thereover, con-

nections between the bulk supply drum and the battery of heating tubes including a forcing means whereby oil may be circulated from and to the bulk supply drum through the battery of heating tubes in a direction generally countercurrent to the flow of heating gases there-



over, the upper ends of the battery of heating tubes being below the usual liquid level in the bulk supply drum, said heating tubes having stationary solid cores formed of twisted rods arranged in and extending centrally therethrough leaving a continuous annular oil passage through said heating tubes.

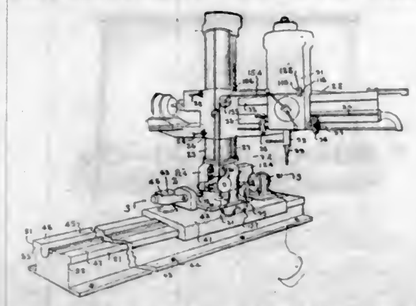
1,676,205. METHOD OF CONSTRUCTING SPINNING-RING TRAVELERS. CHARLES F. MERRILL, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 25, 1926. Serial No. 97,242. 2 Claims. (Cl. 153—32.)



1. The method of constructing a spinning ring traveler which consists in forming a mandrel having a central segment of its surface with its elements parallel to the axis and in right cross section corresponding to the shape of the central bow section of the traveler and having similar complementary side segments of its surface helicoidal and each generated by a line bounding a radial cross section of the ring upon which the traveler bears when this line is maintained at an angle to the helicoidal axis corresponding to the normal angle of inclination of the traveler when running, and in then bending a strip of traveler metal of uniform cross section having a flat inner bearing surface into conformity with the mandrel surface with that portion engaging the central segment of the mandrel surface lying at right angles to the mandrel axis.

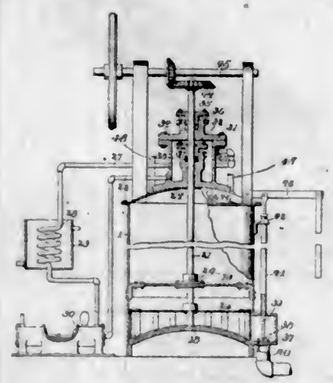
1,676,206. TRAVELING DRILLING MACHINE. STANLEY M. RATLIFF, Norwood, Ohio, assignor to The American Tool Works Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 18, 1926. Serial No. 130,055. 3 Claims. (Cl. 77—28).

3. In a traveling drilling machine, the combination of a track, a carriage movable therealong, a base fixed to said carriage, a post extending rigidly upwardly from said base, a rotatable column about said post above said base, a drill-arm adjustable to elevation on said column and arranged to be adjusted to radial positions about said post, a drill-slide slidable laterally on said drill-arm toward and from said column, a shaft extending through said base below said rotatable column, a motor at one side of said base connecting with one end of said shaft, a worm and worm-wheel at the opposite side of said base



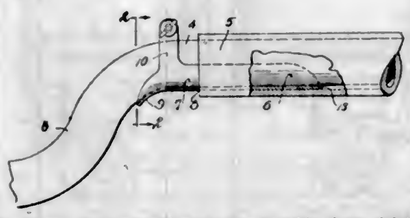
connecting with the other end of said shaft, said worm and worm-wheel having operative connection with said track for moving said carriage lengthwise of said track.

1,676,207. CRACKING OILS. GEORGE L. PRICHARD, Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed June 22, 1915. Serial No. 35,617. 10 Claims. (Cl. 196—68.)



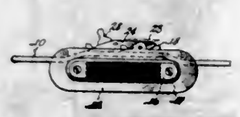
1. The process of cracking petroleum hydrocarbons which comprises maintaining in a still a body of such hydrocarbons under cracking temperature and pressure while withdrawing and condensing vapors of cracked products, agitating the oil by a stirring device in the still operated by a shaft passing outside the still through a packing enclosed in a closed housing and circulating through the housing a fluid under pressure.

1,676,208. CABLE SUPPORT. DELBERT E. REPLOGLE, Watertown, Mass., assignor to Engineering Specialties Company, Boston, Mass., a Partnership of Massachusetts. Filed Dec. 2, 1926. Serial No. 152,178. 6 Claims. (Cl. 247—4.)



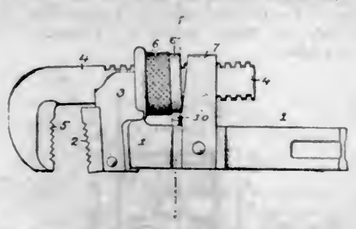
5. Means for protecting a power cable from frictional wear due to the longitudinal movement of the cable over a support, comprising a substantially semi-cylindrical sleeve and means for securing said sleeve from movement relative to said cable whereby any frictional wear due to the longitudinal movement of the cable over said support will take place between said sleeve and said support.

1,676,209. RAZOR-BLADE SHARPENER. WALTER W. UPINGTON, Tacoma, Wash. Filed Apr. 2, 1926. Serial No. 99,385. 7 Claims. (Cl. 51—153.)



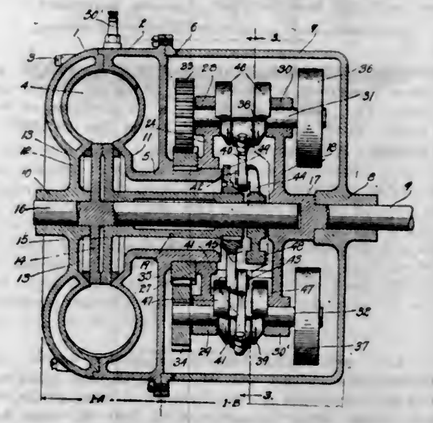
1. In a sharpener of the class described, stropping means and blade holder supporting means movable relative to each other, a tilting blade holder on the supporting means disposed at an angle to the transverse axis of the stropping means, means operable upon relative movement of the stropping means and blade holder supporting means, to swing one edge of a blade in the holder against the stropping means, whereby the desired drawing off sharpening action is had, and means compelling reverse tilting of the blade holder when the direction of relative movement of the blade holder supporting means and stropping means is reversed, the reverse tilting means including a cam plate slidably mounted in the blade holder supporting means and shiftable by its frictional engagement with the stropping means.

1,676,210. PIPE WRENCH. PAUL ARMSTRONG, Chicago, Ill., assignor to Armstrong Bros. Tool Co., Chicago, Ill., a Corporation of Illinois. Filed Nov. 29, 1926. Serial No. 151,401. 1 Claim. (Cl. 81—101.)



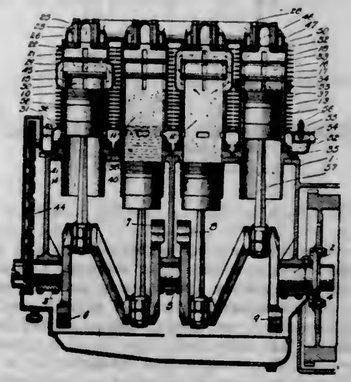
A pipe wrench comprising, a handle carrying a wrench jaw at one end, cheek plates secured to said handle in spaced relation to said jaw, and having a hook form providing a rearwardly open pivot socket, a confining yoke secured to said handle in spaced relation to said cheek plates, a companion wrench jaw having a screw threaded shank adapted for movement between said cheek plates and through said confining yoke, an operating sleeve nut arranged between the sleeve plates and yoke and having at one end an annular bead adapted to effect pivotal engagement between the nut and cheek plates and hold said nut from lateral displacement, said nut having a reduced peripheral portion remote from the annular bead aforesaid, a plunger formed with an enlarged end portion adapted for bearing contact with the reduced peripheral portion of the sleeve nut to hold said nut in its pivoted engagement with the aforesaid cheek plates and prevent detachment of the nut when the movable wrench member is removed for repair and the like, said plunger having a reduced end portion in aligned relation to said enlarged portion, the handle having a socket or recess formed with enlarged and reduced portions complementary to the plunger and adapted to slidingly receive the same, and a compression spring arranged in the enlarged portion of said recess and having bearing engagement with the enlarged portion of the plunger.

1,676,211. TRANSMISSION FOR ROTARY ENGINES. FRANK A. BULLINGTON, Kansas City, Mo., assignor to Bullington Motors, Kansas City, Mo., a Common Law Trust consisting of Solomon Stoddard, Ernest E. Howard, and Frank A. Bullington. Filed June 2, 1923. Serial No. 643,095. 1 Claim. (Cl. 123—11.)



In a rotary combustion motor, a fixed annular cylinder casing, and a fixed crank case at one side of the cylinder in axial alignment with the cylinder, pairs of pistons in the cylinder rotatable about a common axis, the pistons of one pair opposed to those of the other pair, to form working chambers between them and having relative movement to compress fuel charges to combustible pressures, means for igniting the compressed charges, two piston shafts, one concentric with the other, piston arms carried by the piston shafts, oppositely disposed single pin crank shafts, one for each pair of pistons, a crank shaft carrier mounted to rotate in the crank case and having the crank shafts rotatably mounted therein diametrically opposite to each other, piston arms on the piston shafts, connecting rods between the piston arms and the crank pins, the crank pins being so disposed that when they are on dead center positions they are at equal angular distances on one side of a plane passing through the axes of the crank shafts and of the piston shafts, with one crank pin a greater distance from the axes of the piston shafts than the other, the connecting rods on dead center positions and parallel one to the other.

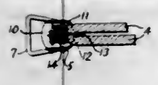
1,676,212. INTERNAL-COMBUSTION ENGINE. FRANK A. BULLINGTON, Kansas City, Mo. Filed July 12, 1923. Serial No. 651,043. 18 Claims. (Cl. 123—190.)



1. A four cycle reciprocatory internal combustion engine comprising a cylinder provided with a working

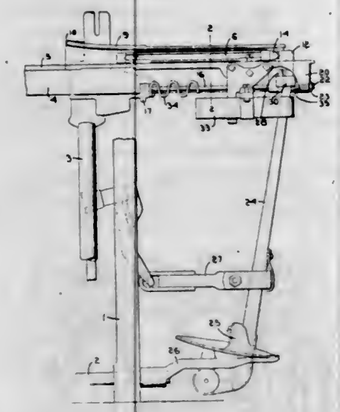
chamber having means for combusting fuel introduced into said chamber, means for admitting fuel into and exhausting burnt gases from the cylinder and a reciprocatory piston in the cylinder having expansion movement greater than its effective compression movement and an effective fuel intake movement equal to the compression movement and less than the expansion movement.

1,676,213. WRIST-WATCH BRACELET. ADOLPH BULOVA, New York, N. Y., assignor to Bulova Watch Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 17, 1928. Serial No. 247,285. 2 Claims. (Cl. 24—123.)



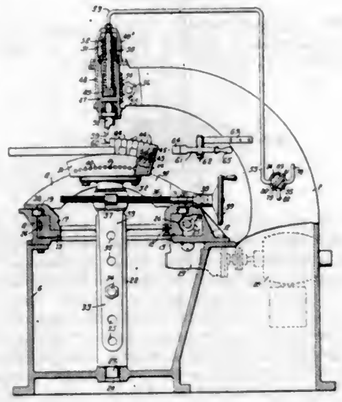
1. In a wrist-watch bracelet comprising double cords extending from either side of the watch, end parts each of which comprises a cup carrying a clasp device, the construction being characterized in that the cups have open ends which are disposed outwardly and are substantially unobstructed, and that the inner portions of the cups are provided with retainers, the two cord ends passing into each cup at opposite sides of said retainer and being connected together within the cup in a manner permitting the length of the bracelet to be readily altered.

1,676,214. PICKER MECHANISM FOR LOOMS. CARL D. BROWN, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Nov. 18, 1927. Serial No. 234,114. 6 Claims. (Cl. 139—146.)



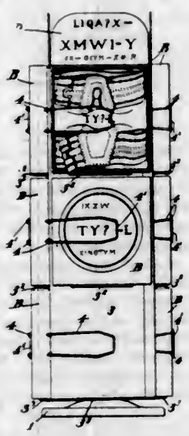
1. A loom comprising a lay having a raceway, a shuttle box on the lay at the end of the raceway, a picker extending above and below the raceway and mounted on the lay to slide longitudinally thereof with its head moving parallel to the raceway and midway of and parallel to the shuttle box walls, and a picker stick located entirely beneath the raceway and swinging in a plane parallel to and immediately adjacent to the picker and loosely connected at its upper end to the picker to impart longitudinal movement thereto.

1,676,215. BENDING MACHINE. HERMAN E. FRENTZEL, Milwaukee, Wis., assignor to The Falk Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 23, 1926. Serial No. 89,890. 18 Claims. (Cl. 153—40.)



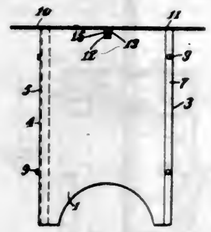
16. In a bending machine the combination of a head having an arcuate series of openings therein, a series of mandrels adapted to be placed in said openings successively, and means for rotating said head to bend the work about each mandrel successively applied thereto.

1,676,216. DISPLAY STAND. FRANCIS W. GIBSON, West Roxbury, Mass., assignor to The H. D. Beach Company, Coshocton, Ohio, a Corporation of Ohio. Filed July 21, 1926. Serial No. 123,868. 3 Claims. (Cl. 211—50.)



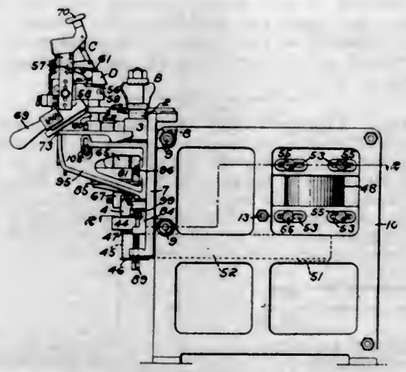
1. In a display structure a spindle member and multi-faced rack rotatably mounted thereon and comprising a plurality of face plates each having angularly bent marginal flanges interengaged with the flanges of the adjacent plates to form the corners, and each having a plurality of spaced bracket lips struck out therefrom, and resilient clip members anchored in said corners and having their free ends disposed in retaining rotation above said bracket lips.

1,676,217. TABLE. FRANCIS W. GIBSON, West Roxbury, Mass., assignor to The H. D. Beach Company, Coshocton, Ohio, a Corporation of Ohio. Filed July 21, 1926. Serial No. 123,869. 3 Claims. (Cl. 45—31.)



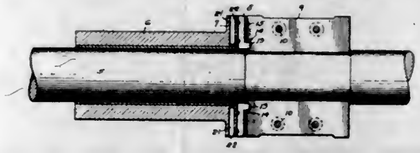
1. A table comprising side portions of the same size and form, each side having a bent edge adapted to overlie and connect with an adjacent side, a two part top, each part being of similar form and having a turned edge portion adapted to form a central rib when the turned edge portion of each of the top parts are abutted against each other, the turned edge portion of each top part having a plurality of notches extending part way across said turned edge portion, the opposite sides of said table also having notches in the upper edge thereof adapted to receive the turned edge of each of the top portions, the notches in the side portions being of a depth less than the width of the turned edge portion of the top, said notches in the sides being of a width equal to at least twice the thickness of the turned edge of the top portion.

1,676,218. MACHINE FOR TURNING HEELS. NICHOLAS L. GULLIFORD, Peabody, Mass., assignor to Gregory & Read Company, Lynn, Mass., a Corporation of Massachusetts. Filed Dec. 24, 1925. Serial No. 77,600. 12 Claims. (Cl. 12—87.)



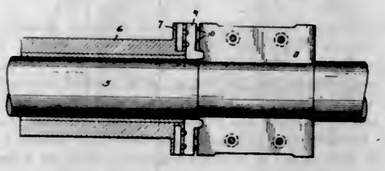
1. In a heel turning machine at least one work member arranged to rotate about a vertical axis, a work holder arranged to swing about vertical and horizontal axes into operative relation with said work member to effect the shaping of the work, a rider carried, by said work holder, a curved track member for supporting said rider in varying angular positions as said work holder swings about its vertical axis, a supporting bracket member for said track, a tongue in one of said members and a plurality of angularly spaced grooves respectively to receive said tongue and maintain said track in a predetermined angular position with respect to said work member for guiding said work holder in swinging about its horizontal axis.

1,676,219. THRUST BEARING. JULIUS H. SEYMOUR and THOMAS S. SPEAR, Bartow, Fla.; said Seymour, assignor to said Spear. Filed July 3, 1926. Serial No. 120,422. 1 Claim. (Cl. 308—168.)



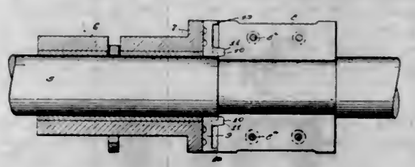
The combination with a rotative shaft of a fixed bearing member in which said shaft rotates, there being peripheral recesses formed in said bearing member, and oil ducts leading from said recesses to the working face of said member, an abutment carried by the shaft, a rotative wear plate secured to the abutment and held in spaced relation thereto, to provide a space between the wear plate and the abutment, there being oil ducts leading from said space through the plate to the working face of the plate.

1,676,220. THRUST BEARING. JULIUS H. SEYMOUR and THOMAS S. SPEAR, Bartow, Fla.; said Seymour assignor to said Spear. Filed July 29, 1926. Serial No. 125,693. 3 Claims. (Cl. 308—168.)



1. In combination a horizontal shaft and a thrust bearing for the same, comprising an abutment carried by the shaft and rotating therewith, a vertical wear plate spaced from said abutment but connected thereto and rotating therewith and having ports formed therethrough from the rear to the front face thereof and fins carried by said plate at the mouths of the respective ports projecting outwardly beyond the vertical face of the plate to thereby direct oil moving under the influence of centrifugal force into said ports, to cause said oil to travel laterally through the wear plate.

1,676,221. THRUST BEARING. JULIUS H. SEYMOUR and THOMAS S. SPEAR, Bartow, Fla.; said Seymour assignor to said Spear. Filed July 18, 1927. Serial No. 206,617. 4 Claims. (Cl. 308—168.)



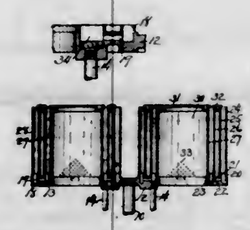
1. A thrust bearing, a rotative shaft and abutment carried thereby, a wear-plate secured to, and rotating with, the abutment, means for spacing the wear-plate from the abutment, shrouds for closing the space between the wear-plate and the abutment at both the inner and outer edges of said wear-plate, pick-up projections disposed at an angle to pick up oil during the rotation of the wear-plate and abutment, and means for conducting oil from said pick-up projections to the space between the wear-plate and abutment, said wear-plate having ports formed therethrough from its rear to its front face.

1,676,222. PROCESS OF MAKING SHEET-METAL FRAMES. WILLIAM O. SHELDON, Lakewood, Ohio, assignor to The Yoder Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 23, 1925. Serial No. 39,077. 3 Claims. (Cl. 113—116.)



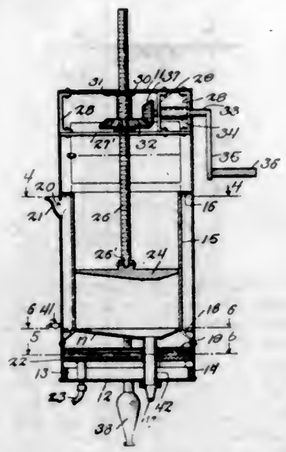
1. The herein disclosed process of making frames for panels, sheets and the like, which consists in first forming a sheet metal strip into sections of predetermined length each section having pairs of V-shaped notches in its side edges spaced from each other and from the ends of the strip to form the sides and ends of the frame, then in forming longitudinally of the strip midway between its side edges a V-shaped groove, then in forming along its longitudinal side edges end walls, then in bending the side walls between said groove and said end walls toward each other along the lateral edges of said V-shaped groove, then in straightening the walls of the V-shaped groove to form the outer end walls of the frame and moving the side walls toward each other to position the inner end walls, then in bending the strip on transverse lines coincident with the apexes of the V-shaped notches, and finally associating a panel or sheet between the inner end walls and connecting the end of the strip together.

1,676,223. VAPOR BURNER. RALLSTON M. SHERMAN, Glastonbury, Conn., assignor to Silent Glow Oil Burner Corporation, Hartford, Conn., a Corporation of Connecticut. Filed Aug. 25, 1926. Serial No. 131,397. 3 Claims. (Cl. 158—87.)



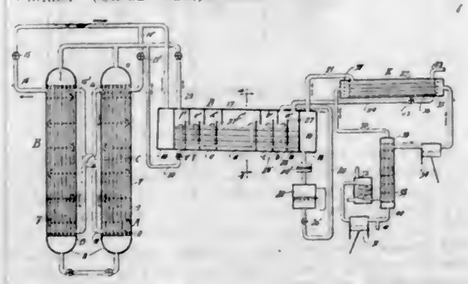
1. A burner including a burner base having therein a fuel groove, a vapor groove to receive for ignition therein vapor from said fuel groove, a duct communicating with both of said grooves and located above the bottom of the fuel groove to effect flow of vapor only to the vapor groove under normal operation of the burner, a combustion chamber opening from each of said grooves, and means for supplying fuel to the fuel groove.

1,676,224. DISPENSING CONTAINER. ASSIMAKIS SPILIOTAKARAS and FRANK L. TAYLOR, Mobridge, S. Dak. Filed Mar. 29, 1926. Serial No. 97,398. 1 Claim. (Cl. 221—79.)



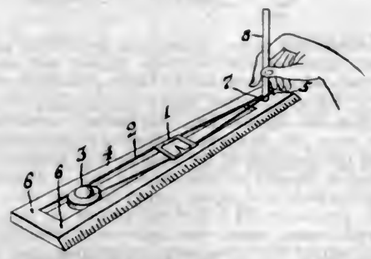
A dispensing apparatus comprising a casing having an opening formed adjacent its upper end for filling purposes, a closure for the opening, a container within the casing spaced from the wall thereof and provided with a flange at its upper end seating against the inner side of the wall of the casing circumferentially below the said opening, a partition wall in the casing near the bottom thereof closing the lower portion of the casing below the bottom of the container, the casing having an opening below the plane of the flange at the upper end of the container, the wall adjacent said opening being bulged outwardly to form a hopper, a removable bottom for the lower end of the casing, an electric heating unit supported upon the said bottom between the same and the partition to heat water introduced into the space between the casing and container, and a follower vertically adjustable in the container, the container having a discharge at its bottom for the material contained therein.

1,676,225. LIQUEFACTION APPARATUS. RICHARD C. TOLMAN, Washington, D. C.; WILLIAM L. DE BAUFRE, Lincoln, Nebr.; JOHN W. DAVIS, Washington, D. C.; and MONTAGUE H. ROBERTS, Englewood, N. J., assignors to Samuel G. Allen, trustee. Original application filed Sept. 16, 1922, Serial No. 588,530. Divided and this application filed Dec. 29, 1923. Serial No. 683,276. 2 Claims. (Cl. 62—122.)



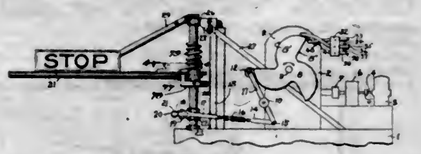
1. A liquefying apparatus comprising, in combination, interchangers for cooling the gaseous mixture, a substantially horizontally disposed liquefier for the liquefaction of the major portion of the undesired constituents of the gas, appropriate connections between the interchangers and the liquefier, a chamber communicating with the liquefier and receiving the vapor and condensate discharged from the liquefier for separation, means whereby the condensate is utilized in counter-flow in the liquefier and interchangers, a purifier to which the uncondensed vapor is led from said chamber, a connection for so leading said vapor, and an external cycle of refrigeration for the purifier.

1,676,226. DRAWING DEVICE. WILLIAM JOHN WITKUS, Maspeth, N. Y. Filed Jan. 28, 1928. Serial No. 250,197. 2 Claims. (Cl. 33—23.)



2. A drawing device comprising a part having a longitudinal slot therethrough and being adapted for ruling and measuring, securing means on said part adjacent one end of said slot there being a scriber-receiving hole adjacent said means, a pivot tack adapted to be received in said slot whereby the part may pivot and slide relative thereto, a spring element having one end secured to said securing means and the other to said pivot tack, and a drawing guide releasably connected to said spring element.

1,676,227. AUTOMATIC RAILWAY GATE. JOHN R. BURRESS, Arlington, Tex., assignor, by direct and mesne assignments, to W. A. Cease and W. A. Davis, Tulsa, Okla. Filed July 9, 1924. Serial No. 724,946. 5 Claims. (Cl. 39—7.)

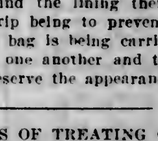


2. An automatic railway gate comprising a movable body which is arranged to be swung laterally across a highway, a movable cam having gradual lifts and abrupt drops, means operable over one of the cam lifting portions for closing the gate body, means for retaining said first mentioned means on the lifting portion for closing the gate body, resiliently tensioned means for urging the gate body to open position, and means for moving the cam lift portion from under said first means to permit the same to fall into one of the abrupt drops.

5. An automatic railway gate comprising a laterally movable gate body, means for causing said gate body to open, a movable cam lift and drop portions for respectively closing and releasing the gate body, a motor for moving said cam, a switch for starting the motor to close the gate, a cam-controlled switch for starting the motor, a cam-controlled switch for insuring maintenance of the motor circuit, said cam switches being adapted to be opened by the cam when the gate is closed, and a second switch for starting the motor for permitting the gate to open when the circuit to the first switch is opened.

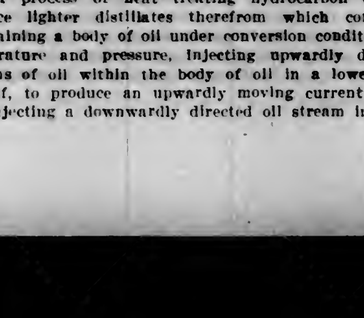
1,676,228. CEILING PLATE. WILLIAM GRIMSHAW, Chicago, Ill. Filed Aug. 2, 1926. Serial No. 126,705. 4 Claims. (Cl. 126—317.)

1. A wall or ceiling plate for the purpose specified, comprising a plurality of spring segments connected together at their outer ends, said plate being dished and the edges of the inner ends of the segments thereof defining a hole in said plate adapted to receive a member in association with which said plate is designed to be used and which is normally smaller than said member,



and the inner ends of different segments comprising opposed portions, the relation being such that when a plate is applied to a member the edges of the inner ends of said segments will directly engage said member.

1,676,229. HAND HAT BAG. MOLLIE L. GROSSMAN and JOSEPH N. LOWE, New York, N. Y. Filed Jan. 2, 1923. Serial No. 610,118. 3 Claims. (Cl. 206—8.)



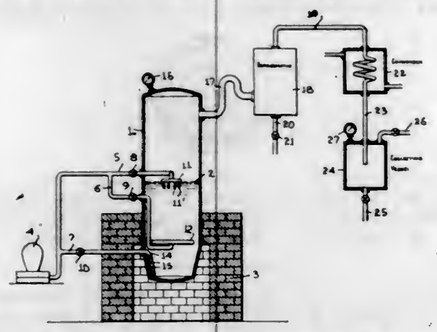
1. A hand-bag of the character described comprising a peripheral band of flexible fabric, disk sides of flexible fabric applied to opposite edges of said band, one of said disk sides being secured along its entire edge to one entire edge of said band and the other disk side being secured at a portion of the edge thereof to a portion of the other edge of said band and at its other edge portion being provided with fastening means for detachable connection with the other portion of said other edge of the band, which portion is provided with fastening means to coact with the said fastening means, carried by the disk side, a handle by means of which the bag may be carried by hand, a lining of fabric extending entirely around the inner surface of said band and secured at its opposite edges, and a stiffening strip of pasteboard or the like of about the width of said band and extending along the inner surface of the band and being concealed behind the lining thereof, the purpose of said stiffening strip being to prevent the collapse of said band while the bag is being carried and when the bags are piled upon one another and to thereby protect the contents and preserve the appearance of the bag.

1,676,230. PROCESS OF TREATING OILS. HENRY C. KIRK, Baltimore, Md. Filed Dec. 8, 1927. Serial No. 238,649. 15 Claims. (Cl. 196—68.)

2. A process of heat treating hydrocarbon oils to produce lighter distillates therefrom which comprises injecting oppositely directed non-planar oil streams within a body of oil under conversion conditions of temperature and pressure, to produce circulation within the body of oil of character and velocity sufficient to prevent formation of hard carbon.

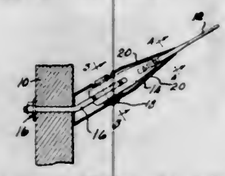
4. A process of heat treating hydrocarbon oils to produce lighter distillates therefrom which comprises maintaining a body of oil under conversion conditions of temperature and pressure, injecting upwardly directed streams of oil within the body of oil in a lower zone thereof, to produce an upwardly moving current of oil and injecting a downwardly directed oil stream into the

body of oil in an upper zone thereof to produce a downwardly moving oil current in said body of oil said downwardly directed oil stream, supplementing said upwardly



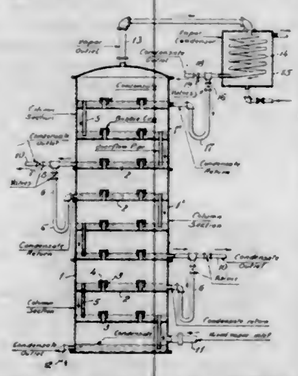
moving oil current, whereby circulatory currents are set up throughout the body of oil, and the deposition of hard carbon is substantially eliminated.

1,676,231. AIRPLANE CONSTRUCTION. CLARENCE HENRY POWELL, Detroit, Mich., assignor of one-half to Ralph J. Burton, Detroit, Mich. Filed July 30, 1926. Serial No. 125,839. 22 Claims. (Cl. 244—31.)



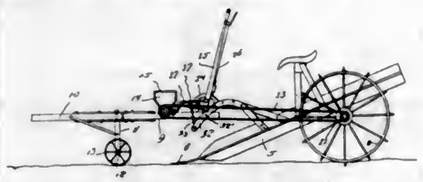
1. A housing for the fitting of an aircraft, comprising a pair of complementary clamshells provided with interlocking edges secured together by a pin extending transversely therethrough and having a head at each end seated within a recess formed in said shells.

1,676,232. FRACTIONAL CONDENSATION OF MIXED VAPORS. LOUIS WEISBERG, Grantwood, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed Nov. 29, 1921. Serial No. 518,544. Renewed Mar. 23, 1927. 13 Claims. (Cl. 196—94.)



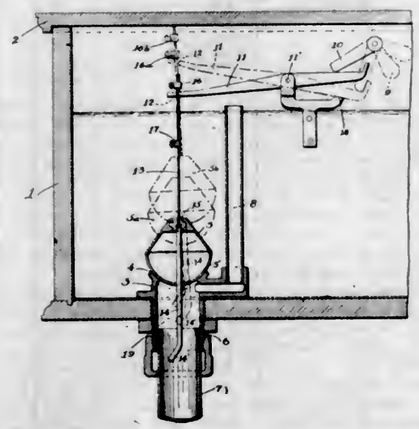
4. In the art of fractionally distilling a composite liquid involving interchange between rising vapors and descending refluxing liquid, the method which comprises dividing the total liquid reflux at a predetermined point in its descent into streams bearing a fixed ratio to each other, and utilizing one of said streams as reflux in its further descent in fractionating relation to rising vapors.

1,676,233. COMBINED PLANTER AND POTATO DIGGER. JOHN DOROSKI, Calverton, N. Y. Filed Feb. 18, 1927. Serial No. 169,303. 1 Claim. (Cl. 111—1.)



In a combined potato digger and grain seed planter, a wheel supported axle, a potato digging unit mounted upon the axle and adapted for vertical swinging movement, a wheel supported frame arranged forwardly of and above the digging unit, a planting mechanism arranged upon the frame and including driven means for causing the discharge of the grain seed in advance of the uplifting of the soil by said digging unit, a driving connection between said driven means and the wheel axle, a lever pivoted at its lower end portion on said wheel supported frame, means for operatively connecting the pivoted end of the lever with the digging unit at the forward end thereof for raising and lowering the digging unit, and additional means for operatively connecting the lever with the aforesaid driven means to effect a simultaneous operation of said driven means with the actuation of the raising and lowering of the digging unit, said first mentioned means comprising a pair of converging goose necks secured at their lower diverging ends to the digging unit, a U-shaped hanger connected to the converging ends of the goose necks, and a laterally extending arm formed on the lower end of the lever and to which the crown portion of said U-shaped hanger is attached.

1,676,234. PENDULUM OR SWINGING FLUSH VALVE FOR WATER-CLOSETS. EDWARD H. GOVE, Biddeford, Me.; Everard J. Gove executor of said Edward H. Gove, deceased. Filed Sept. 13, 1926. Serial No. 135,135. 3 Claims. (Cl. 4—57.)



3. In a device of the character described comprising in combination with a valve, a one-piece valve-lifting spindle and a water-way spindle having a relatively large permissible movement, laterally, when said valve is off its seat, of a valve-lifting lever having a vertically disposed hole near its free end through which said valve-lifting spindle may reciprocate, and means on said valve-lifting spindle, superjacent said valve-lifting lever, whereby said valve may be raised.

Patents Nos. 1,676,235 to No. 1,677,122.

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Total	1,141		

Disclaimers.

1,215,569.—*William Mitchell*, Milwaukee, Wis. GUARD FOR STALLS. Patent dated February 13, 1917. Disclaimer filed June 16, 1928, by the assignee, *Mitchell Mfg. Co.*

Therefore disclaims any interpretation being given to such of the claims of said patent as are referred to in the decision of said circuit court of appeals which would be in conflict with said decision, and that such claims be limited as provided for in the decision, but without waiving any right of petitioner to the application of the doctrine of mechanical equivalency in the interpretation of such claims.

1,581,188.—*Colin G. Fink*, New York, N. Y. PROCESS OF ELECTRODEPOSITING CHROMIUM AND OF PREPARING BATHS THEREFOR. Patent dated April 20, 1926. Disclaimer filed June 20, 1928, by *United Chromium, Incorporated*, assignee by mesne assignments.

Hereby disclaims:

(a) From claims 1, 2, 4, 11, and 12 any method of electrodepositing chromium in which regulating a radical component of the bath (other than or in addition to the chromic acid radical) is not practiced in maintaining the efficiency thereof;

(b) From claims 5, 6, 10, 13, and 15 any method of electrodepositing chromium in which regulating within the limits specified a radical component of the bath (other than or in addition to the chromic acid radical) is not practiced in maintaining the efficiency thereof.

1,639,414.—*John M. Miller*, Philadelphia, Pa. RADIO RECEIVING SYSTEM. Patent dated August 16, 1927. Disclaimer filed June 18, 1928, by the assignee, *Atwater Kent Manufacturing Company*, and *John M. Miller*, patentee.

Hereby jointly and severally disclaim any radio receiving system and method of tuning cascaded circuits throughout a frequency range covered by claims 1, 2, 3, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, and 17 excepting radio receiving systems characterised by the fact that the anode circuit of the three-electrode vacuum tube or amplifier interposed between or coupling the first of the tuned circuits and the absorption structure is substantially devoid of fluctuating or alternating current except current of radio frequency, and excepting methods of tuning cascaded circuits throughout a frequency range characterized by the fact that in and throughout the transfer from the absorption structure to the first of the tuned circuits the radio frequency current is dissociated from current of audio or other frequency.

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,489,675, W. R. Schlage, Door lock, decided December 8, 1927, claims 1, 2, 4, 5, 9, and 18.

Pat. 1,605,457, C. J. Muend, Valve control, decided May 8, 1928, claims 1 and 2.

Pat. 1,644,443, P. B. Parks, Thermally-operated circuit breaker, decided June 2, 1928, claims 1 and 8.

Adjudicated Patents.

(D. C. N. Y.) Coolidge patent, No. 1,089,907, for electrical make-and-break contacts of tungsten, *Held* valid and infringed. *Elkon Works* v. *Welworth Automotive Corporation*, 25 F. (2d) 968.

(C. C. A. III.) Fox patent No. 1,410,668, for desk accessory, *Held* invalid. *Fox* v. *The Fair*, 25 F. (2d) 966.

(D. C. Mass.) Redmond patent, No. 1,488,407, for improvement in infants' bands, claim 1, if valid, *Held* not infringed. *William Carter Co.* v. *Barnshaw Knitting Co.*, 25 F. (2d) 981.

(D. C. Mass.) Redmond patent, No. 1,495,134, for improvement in infants' bands, claims 1, 2 and 3, *Held* invalid for want of invention and anticipated. *Id.*

Condition of Applications Under Examination at Close of Business June 29, 1928.

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 106,917; Trade-Mark Division, 1,759. Oldest new case, Aug. 30, 1927; oldest amended, Sept. 23, 1927. The dates given are 1927 except where † indicates 1928.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders	Oct. 24	Dec. 3	1,527
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	Dec. 23	Dec. 29	1,564
331	3. LINDSEY, A., Electric Heating; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 24	Dec. 2	1,986
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus and Implements, and Pushing and Pulling.	Oct. 1	Oct. 1	2,240
108*	5. MACNAB, J. F., Harvesters; Jewelry; Music; Acoustics; Sound Recording; Knotters	Sept. 26	Oct. 15	1,640
318	6. LEWERS, A. M., Chemistry; Chemistry—Carbon Compounds	Nov. 7	Dec. 1	2,679
106	7. JARBOE, C. G., Amusement and Exercising Devices; Toys; Optics; Photography	Oct. 18	Oct. 20	2,449
133	8. HENRY, C. C., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Supports, Racks; Supports, Cabinet Structures.	Nov. 14	Nov. 14	2,559
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	†Feb. 1	†Feb. 1	1,546
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Oct. 24	Nov. 16	1,862
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather Manufactures; Nailing and Stapling; Whip Apparatus; Cutting and Punching Sheets and Bars.	†Jan. 3	†Jan. 4	1,524
380	12. PIERCE, P. P., Machine Elements	Sept. 15	Oct. 28	2,177
154*	13. CLIFT, J. W., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Nov. 28	Nov. 30	1,848
102*	14. BRUMBAUGH, N. J., Compound Tools; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Oct. 8	Oct. 5	1,686
329	15. REDROW, W. L., Glass; Plastic Block and Earthenware Apparatus; Plastics	Nov. 7	Nov. 23	2,285
242*	16. SPENCER, C. J., Batteries; Resistances and Rheostats; Telegraphy; Telephony	Dec. 27	Dec. 29	1,390
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Nov. 19	Dec. 2	1,348
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Dec. 1	Dec. 1	1,565
246	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Dec. 2	Dec. 3	1,679
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	†Jan. 18	†Jan. 17	1,463
212	21. THURBER, W. L., Winding and Reeling; Textiles; Cloth Finishing	Aug. 30	Nov. 19	1,570
244*	22. COLWELL, J. H., Aeronautics; Amusement Devices, Games; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Oct. 7	Nov. 17	1,907
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers; Horology; Time-Controlling Mechanism.	Oct. 5	Oct. 3	1,540
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Sept. 20	Sept. 24	1,568
314	25. LIGHTFOOT, J. E., Agitating; Bleaching and Dyeing; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Mills; Sugar and Starch; Threshing; Vegetable and Meat Cutters and Comminutors.	Nov. 10	Nov. 25	2,502
228*	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Oct. 20	Oct. 20	1,284
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Dec. 13	†Jan. 11	1,345
225	28. BENSON, A. R., Internal-Combustion Engines	Oct. 12	Oct. 31	2,085
160*	29. MORRIS, B. N., Abrading; Button Making; Coopering, Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Sept. 21	Oct. 12	1,884
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Typewriting Machines; Thermostats and Humidostats.	Nov. 5	†Jan. 3	1,648
312	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime, Mineral Oils; Oils, Fats, and Glue.	Dec. 1	Dec. 1	2,787
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Oct. 21	Oct. 10	2,249
152	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements, Roofs; Wooden Buildings.	†Jan. 28	†Jan. 28	2,152
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Sept. 19	Sept. 23	1,494
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	†Jan. 24	Dec. 5	1,513
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	†Jan. 6	†Jan. 4	1,823
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Oct. 28	Dec. 3	2,055
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Dec. 6	Dec. 7	1,854
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Aug. 31	Sept. 24	1,707
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Package and Article Carriers; Receptacles	Sept. 26	Dec. 1	2,730
125	41. BROWN, J. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes	†Jan. 13	†Jan. 17	1,158
223*	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling	Oct. 24	Nov. 8	2,055
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members; Railway Draft Appliances.	Nov. 30	†Jan. 3	2,234
253	44. SHAFFER, C. H., Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Refrigeration.	Oct. 7	Nov. 4	2,148
378	45. GILES, A. H., Pulleys and Shafting; Lubrication; Machine Elements; Bearings and Guides	†Jan. 3	†Jan. 3	1,618
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Oct. 7	Oct. 8	1,840
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Motors; Spring Devices.	Oct. 27	Oct. 24	2,773
213*	48. ROEPKE, O. B., Electricity, General Applications	Dec. 12	Dec. 6	1,427
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Ventilation; Velocipedes; Driers; Liquid Separation or Purification.	Nov. 15	Dec. 15	1,601
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Nov. 23	Nov. 30	2,505
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Nov. 14	Nov. 12	2,205
144	52. MORGAN, E. T., Supports; Chucks; Fire Escapes; Ladders; Scaffolds; Railway Mail Delivery; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Dec. 7	Dec. 6	2,267
143*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Nov. 6	Nov. 5	1,732
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Nov. 10	Nov. 10	2,302
102	55. RICHARD, V. I., {Bread, Pastry, and Confection Making; Cutlery / Designs	Oct. 15 / †Apr. 23	Nov. 1 / †May 4	950 / 858
309	56. PORTER, F. J. (Acting), Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation.	Oct. 3	Oct. 1	2,530
163	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND, {Trade-Marks / Labels and Prints	†June 2 / †June 16	†June 19 / †June 26	1,665 / 94

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

IN RE RICHARDS.

No. 1,995. Decided February 6, 1928.

PATENTABILITY—SIDE BEARINGS FOR CARS.

Claims for a side bearing which define a construction in which an upper housing is given a greater depth than the lower housing in order that the rocker may be kept in place therebetween when the car body swings, *Held* to state only a difference of degree and not an invention.

APPEAL from the Commissioner of Patents. Affirmed.

Mr. Joshua R. H. Potts, Mr. Brayton G. Richards, and *Mr. T. B. Humphreys* for Richards.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before MARTIN, Chief Justice, ROBB, Associate Justice, and SMITH, Judge of the United States Court of Customs Appeals.

MARTIN, *C. J.:*

This is an appeal from a decision of the Commissioner of Patents rejecting claims 1, 2, 3, 4, 8, and 9 of appellant's application for a patent.

The invention in question relates to the side bearings for railroad cars, which are interposed between the bolster on the truck and the body bolster to which the car body is affixed. At each end of the truck bolster is a lower housing substantially in box form having a rocker member mounted therein; cooperating with each rocker is an upper bearing housing secured to the underside of the corresponding body bolster and engaging and embracing the upper portion of the rocker. The entire load is carried by the side bearings or rockers. The special utility claimed for the construction is that the upper housing is made of sufficient depth, so that the rocker will not fall out of place if the car swings or lifts when turning a curve.

There are 9 claims, of which claims 1 and 9 are copied as illustrative:

1. The combination with a truck and a body mounted thereon, to have both pivotal and tilting movement relatively thereto, of upper and lower bearing housings mounted on said body and truck respectively; and a rocker in said housings, the upper housing being of sufficient depth to permit swinging and lifting thereof without disengagement from said rocker, substantially as described.

9. The combination with a truck and body mounted thereon to have both pivotal and tilting movement relatively thereto, of upper and lower opposed bearing housings mounted on said body and truck respectively; and a rocker snugly fitting said housings, the ends of the said rocker being indented and the upper housing being of sufficient depth to permit swinging and lifting thereof without disengagement from said rocker, whereby displacement of said rocker is prevented under all conditions of use, substantially as described.

The references cited by the Examiner are Jessen, June 6, 1923; Lindenthal, September 12, 1905; Lindenthal, February 12, 1907; Amberg, June 29, 1915; Laughlin, November 8, 1921.

The Examiner rejected the appealed claims as not being patentable over any of the patents to Laughlin, Amberg, and Jessen, holding that there was no invention in altering the depth of the housing flanges, that such alteration would be only a matter of degree, and that the Lindenthal patents showed flanges of different depths. Upon appeal the Examiners in Chief affirmed the decision of the Examiner, with a statement that the claims lacked invention over the prior art as cited and applied by the Examiner. An appeal was then taken to the Commissioner of Patents, who affirmed the preceding decisions upon the grounds therein set out. The present appeal was then taken.

An examination of the references discloses that the general features of the present construction are old, and that the only novelty presented by the application consists in giving the upper housing greater depth than the corresponding lower housing, in order that the rocker may be kept in place between the two housings when the car body swings and tilts. This change of construction is only a difference of degree and does not constitute invention. Moreover differences in the depth of the housings are disclosed in Lindenthal's patents. These alterations do not show such invention as will sustain a patent. *Roberts* v. *Ryer*, 10 O. G. 204. 91 U. S. 150; *Belding Mfg. Co.* v. *Challenge Corn Planter Co.*, 67 O. G. 141, 152 U. S. 100; *Market Street Railway Co.* v. *Rowley*, 70 O. G. 632, 155 U. S. 621, 629; *The Railroad Supply Co.* v. *Elyria Iron and Steel Co.*, 239 O. G. 656, 244 U. S. 285.

We are satisfied that the concurrent decisions of the Patent Office tribunals are correct; and the decision appealed from is affirmed.

Court of Appeals of the District of Columbia.

CONOVER AND GIBBS *v.* WOHL.

No. 2,047 Decided May 7, 1928.

INTERFERENCE—PRIORITY.

Priority *Held* properly awarded to W., since the invention is disclosed in his German application, which was filed prior to the earliest date of invention alleged by C. and G.

APPEAL from the Commissioner of Patents. Affirmed.

Mr. A. J. Decker for Conover and Gibbs.

Mr. Wm. E. Warland for Wohl.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

VAN ORSDEL, *J.:*

This is an appeal from the decision of the Commissioner of Patents in an interference proceeding awarding priority of invention to the junior party, Wohl.

The invention is described in the opinion of the Commissioner as follows:

The invention relates to catalytic oxidation of organic compounds and specifically to the production of anthraquinone by the oxidation of anthracene in the presence of an oxid of vanadium as a catalyst.

The issue is stated in two counts reading as follows:

1. The method of oxidizing anthracene, which comprises subjecting anthracene in the vapor phase to oxidation by oxygen in the presence of an oxid of vanadium as a catalyzer, at a temperature of about 300° C. to 500° C.

2. The method of oxidizing anthracene, which comprises passing a mixture of anthracene in the vapor phase, and an oxygen containing gas into contact with an oxid of vanadium as a catalyzer heated to a temperature of about 300° C. to 500° C. whereby anthraquinone is produced.

Appellants Conover and Gibbs are patentees. The Wohl application was pending, however, at the time the patent to appellants was issued; hence the rule as to burden of proof is not affected by the issue of the patent.

The junior party, Wohl, relies for constructive reduction to practice on the filing of an application in Germany on June 22, 1916. The earliest date alleged by the senior parties, Conover and Gibbs, was October 15, 1916. It follows, therefore, that if appellee is entitled to the date of the German patent, he is entitled to an award of priority. His application was filed in this country August 11, 1921. Being a citizen of the Free City of Danzig, he is entitled to the privileges afforded by the Nolan Act of March 3, 1921, 41 Stat. 1313.

Conover and Gibbs urge that the German application does not disclose a process within the terms required by the counts. This contention has been overruled by all three tribunals of the Patent Office; and as the invention is a highly technical one we are disposed to conform to their opinion. A careful examination of their analysis justifies this conclusion; and since the party Wohl is entitled to his German filing date for constructive reduction to practice, he is entitled to the award of priority

The decision of the Commissioner is affirmed.

Extension of Patents for World War Veterans.

[PUBLIC—No. 622—70TH CONGRESS.]

An Act Providing for the extension of the time limitations under which patents were issued in the case of persons who served in the military or naval forces of the United States during the World War.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That any person who served honorably in the military or naval forces of the United States at any time between April 6, 1917, and November 11, 1918, both dates inclusive, and was subsequently honorably discharged, may within six months after the enactment of this Act, upon payment of a fee of $20, make application to the Commissioner of Patents, comprising a verified statement, accompanied by supporting evidence of the following facts:

(A) That he is the inventor or discoverer of an invention or discovery for which a specified patent was granted prior to the 11th day of November, 1918, the original term of which remains unexpired at the time of the filing of the application.

(B) That between April 6, 1917, and November 11, 1918, and also at the time of the passage of this Act, he held, by ownership or contract, a right in said invention or under said patent or to income by way of royalty or otherwise therefrom, whereby an extension of the term of said patent would benefit him.

(C) That between April 6, 1917, and July 2, 1921, he was not receiving from said patent an income, or that his income therefrom was reduced by his said service.

(D) That at the time of his induction into the service he was making diligent effort to exploit the invention covered by his patent.

(E) The names of all persons, firms, or corporations, if any, holding at the time of the passage of this Act, by grant, transfer, license, or contract from him, any right or interest in the invention or discovery or under the patent, and their consent to the extension for which application is made, which shall be supported by an instrument, or instruments, executed by all such persons, firms, and corporations, evidencing their consent to such extension.

(F) The period of extension of the patent from the expiration of the original term thereof, for which he applies, which shall in no case exceed a further term of three times the length of his said service in the military or naval forces of the United States between the dates of April 6, 1917, and July 2, 1921, but exclusive of any reenlistment subsequent to November 11, 1918.

(G) That the licensee of a patent affected by this Act shall automatically be granted an extension of said license for the period of the extension on the same terms and conditions as contained in said existing license, thereby creating an equitable adjustment of the benefits of this Act.

(H) That such extension shall in no way impair the right of anyone who before the passage of this Act was bona fide in possession of any rights in patents or applications for patents conflicting with the rights in any patents extended under this Act, nor shall any extension granted under this Act impair the right of anyone who was lawfully manufacturing before the passage of this Act the invention covered by the extended patent.

SEC. 2. In the case of a veteran, as described in paragraph 1 of this Act, who dies, or has died, or who becomes insane or unable to act, which veteran owned an interest as described in this Act in said patent at the time of his death or at the time he was declared mentally incompetent or became unable to act before said extension is granted, such application may be filed or proceeded with by his legal representatives substantially as provided in section 4896 of the Revised Statutes of the United States (United States Code, title 35, section 46), as amended, with respect to proceedings in such cases for obtaining a patent.

SEC. 3. On the filing of such application the Commissioner of Patents shall cause an examination thereof to be made, and if, on such examination, it shall appear that such application conforms, or by amendment or supplement is made to conform, to the requirements of section 1 of this Act, the Commissioner shall cause notice of such application to be published at least once in the OFFICIAL GAZETTE. Any person who believes that he would be injured by such extension may within forty-five days from such publication oppose the same on the ground that any of the statements of the application for extension required by section 1 of this Act is not true in fact, which said notice of opposition shall be verified before an officer authorized by the laws of any State or Territory or the District of Columbia to administer oaths. In all cases where notice of opposition is filed the Commissioner of Patents shall notify the applicant for extension thereof and set a day of hearing. If after such hearing the Commissioner of Patents is of the opinion that such extension should not be granted, he may deny the application therefor, stating in writing his reasons for such denial. Where an extension is refused the applicant therefor shall have the same remedy by appeal from the decision of the Commissioner as is now provided by law where an application for patent is refused. If no opposition to the grant of the extension is filed, or if, after opposition is filed, it shall be decided that the applicant is entitled to the extension asked for, the Commissioner of Patents shall issue a certificate that the term of said patent is extended for the additional period for which application has been made as aforesaid, and shall cause notice of such extension to be published in the OFFICIAL GAZETTE and marked upon copies of the patent for sale by the Patent Office, in such manner as the Commissioner may determine.

SEC. 4. Thereupon said patent shall have the same force and effect in law as though it had been originally granted for seventeen years plus the term of such extension: *Provided, however*, That in any action, at law or in equity, for infringement after the expiration of seventeen years from the grant of the patent and during the period of such extension, the defendant may plead the general issue, and having given notice in writing to the plaintiff or his attorney thirty days before, may prove on trial that any of the statements of the application for extension required by section 1 of this Act is not true in fact; and if any one or more of such statements shall be found untrue in fact, judgment shall be rendered for the defendant, with costs: *Provided further*, That no person whose patent shall be extended under the provisions of this Act shall be permitted to make any claim for damages against the United States for the period of the extension, and the rights of the United States shall remain in all respects as if these patents had not been extended.

Approved, May 31, 1928.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

841,387, L. de Forest, Device for amplifying feeble electrical currents; 879,532, same, Space telegraphy, appeal filed Feb. 17, 1928, C. C. A., 3d Cir., Doc. 3789, *Radio Corp. of America* v. *A. D. Lord*.

879,532. (See 841,387.)

949,272, 959,527, P. E. Herrmann, Process of hair waving; 1,001,029, 1,168,000, 1,199,550, 1,499,367, same, Hair curler; 1,194,841, same, Hair-steaming apparatus; 1,531,936, same, electrical attachment plug, D. C., N. D. Ohio, E. Div., Doc. 2241, *P. E. Herrmann et al.* v. *The Realistic Permanent Waving Machine*. Dismissed without prejudice Apr. 4, 1928.

959,527. (See 949,272.)

1,001,029. (See 949,272.)

1,078,848, Gray & Jensen, Apparatus for desiccating liquids; 1,107,784, C. E. Gray, Process of desiccating; 1,157,935, 1,266,013, same, Method of and apparatus for desiccating liquids; 1,392,656, W. O. Rew, Desiccator, filed May 4, 1928, D. C., W. D. Wash. (Seattle), Doc. 630, *Golden State Milk Products Co. et al.* v. *Whatcom County Dairymen's Ass'n*.

1,107,784. (See 1,078,848.)

1,111,658. (See 1,134,749.)

1,128,144, Inwood & Lavenberg, Combined carriage and former for wire-bound-box machine; 1,128,145, same, Means for making box blanks; 1,128,252, same, Method of making boxes, D. C. Mich. (Grand Rapids), Doc. 2029, *Wirebounds Patents Co. et al.* v. *Saranac Automatic Machine Co.* Dismissed Aug. 5, 1927.

1,128,145. (See 1,128,144.)

1,128,252. (See 1,128,144.)

1,134,749, G. A. Landenberger, Knitting machine; 1,111,658, same, Stocking, D. C., S. D. N. Y., Doc. E 44/244, *Gotham Silk Hosiery Co., Inc.*, v. *J. Kayser & Co.* Consent order of discontinuance May 2, 1928.

1,145,405. (See 1,363,200.)

1,157,935. (See 1,078,848.)

1,168,000. (See 949,272.)

1,194,841. (See 949,272.)

1,199,550. (See 949,272.)

1,263,843, 1,329,453, G. C. Bohn, Refrigerator door, filed Apr. 5, 1928, D. C. Minn. (St. Paul), Doc. 1121, *Bohn Refrigerator Co. et al.* v. *Seeger Refrigerator Co.*

1,266,013. (See 1,078,848.)

1,329,453. (See 1,263,843.)

1,363,200, Wells & Hunter, Automatic feed and delivery for platen presses; 1,145,405, E. Cheshire, Paper feeding and handling device, appeal filed Apr. 7, 1928, C. C. A., 7th Cir., Doc. 4034, *O. L. Schillforth* v. *Miller Saw Trimmer Co.*

1,389,067, 1,487,971, M. D. Neilson, Undergarment for women, filed May 4, 1928, D. C., S. D. N. Y., Doc. E 45/141, *Winget Kickernick Co.* v. *American Knitting Mills Co.*

1,392,656. (See 1,078,848.)

1,487,971. (See 1,389,067.)

1,489,597, 1,545,425, W. F. Hillpot, Incubator, D. C. Del. (Wilmington), Doc. E 633, *W. F. Hillpot* v. *The Smith Incubator Co. et al.* Dismissed, Apr. 24, 1928. Same, D. C., S. D. Ind. (Indianapolis), Doc. 1012, *W. F. Hillpot* v. *H. G. Murphy*. Dismissed Apr. 21, 1928.

1,499,367. (See 949,272.)

1,531,936. (See 949,272.)

1,545,425. (See 1,489,597.)

1,577,030, A. S. Howell, Intermittent feed mechanism; 1,620,726, same, Motion-picture camera, filed Apr. 20, 1928, D. C., N. D. Ill., E. Div., Doc. 8131, *Bell & Howell Co.* v. *Victor Animatograph Co.*

1,587,974, T. M. 225,584, T. M. 194,519, C. A. Michel, Automobile lamp, filed Apr. 25, 1928, D. C., N. D. Ill., E. Div., Doc. 8135, *The Guide Motor Lamp Mfg. Co.* v. *The Do-Ray Lamp Co., Inc.*

1,596,107. (See 1,642,418.)

1,620,726. (See 1,577,030.)

1,642,418, Hubbell & Kovanda, Molten-material-spraying apparatus; 1,596,107, same, Method of lining concrete sewers, ducts, and containers, D. C., S. D. Calif. (Los Angeles), Doc. E M–113–M, *L. P. Kovanda* v. *C. R. Ross (Ross Construction Co.)*. Patents held valid and infringed Apr. 27, 1928.

Re. 15,873, J. A. Heidbrink, Anæsthetic apparatus; Re. 15,874, same, Apparatus for delivering a mixture of gases, C. C. A., 7th Cir., Doc. 3919, *J. A. Heidbrink et al.* v. *C. H. Hardcastle Co.* Affirmed Apr. 3, 1928.

Re. 15,874. (See Re. 15,873.)

Re. 16,677, W. F. Allen, Heater, filed May 2, 1928, D. C., S. D. Ohio, W. Div., Doc. E 547, *Allen Mfg. Co.* v. *The F. A. Klaine Co.*

Des. 71,983, Des. 72,320, C. W. Logan, Electric-light fixture; Des. 72,321, same, Wall plate for electric-light fixture; Des. 72,376, same, Arm for electric-light fixture, D. C., S. D. Calif. (Los Angeles), Doc. E N–27–M, *Markel Electric Products, Inc.*, v. *Allied Metal Industries, Inc., et al.* Patents held infringed Apr. 16, 1928.

Des. 72,320. (See Des. 71,983.)

Des. 72,321. (See Des. 71,983.)

Des. 72,376. (See Des. 71,983.)

Des. 72,596, R. G. Cowan, Flower holder; Des. 72,638, W. A. Sinz, same, filed May 12, 1928, D. C., N. D. Ohio, E. Div., Doc 2580, *Cowan Pottery Studio, Inc.*, v. *W. W. McFarland Sons & Co.* Doc. 2581, *Cowan Pottery Studio, Inc.*, v. *Strouse-Hirshberg Co.* Doc. 2582, *Cowan Pottery Studio, Inc.*, v. *Stambaugh-Thompson Co.* Doc. 2583, *Cowan Pottery Studio, Inc.*, v. *H. Harrown & Co.*

Des. 72,638. (See Des. 72,596.)

T. M. 23,599, V. Klotz, Toilet article; T. M. 198,636, H. & G. Klotz, Perfumery, soap, etc.; T. M. 204,999, same, Lotions, toilet water, etc., filed Apr. 23, 1928, D. C., N. D. Ill., E. Div., Doc. 8133, *Pinaud, Inc.*, v. *Newberry Co.*

T. M. 115,435, A. Bourjois & Co., Inc., Face powder and rouge; T. M. 234,406, same, Toilet preparations, filed Apr. 19, 1928, D. C., N. D. Ill., E. Div., Doc. 8128, *Bourjois, Inc.*, v. *National Mineral Co.*

T. M. 194,519. (See 1,587,974.)

T. M. 198,636. (See T. M. 23,599.)

T. M. 204,999. (See T. M. 23,599.)

T. M. 225,584. (See 1,587,974.)

T. M. 234,406. (See T. M. 115,435.)

Trade-Marks Canceled.

35,085. Cleaning and polishing soap. Whittier Coburn Company, San Francisco, Calif. Registered September 18, 1900. Canceled June 20, 1928.

69,940. Certain chemical preparation. Theodore Meyer, Philadelphia, Pa. Registered July 21, 1908. Canceled June 20, 1928.

113,032. Spoons and forks plated with gold or silver and table silverware. Dirigo Distributing Co., New York, N. Y. Registered October 10, 1916. Canceled June 20, 1928.

122,999. Salted nuts. The Squirrel House, Inc., Seattle, Wash. Registered October 1, 1918. Canceled June 20, 1928.

152,007. Solution for lead-plate batteries. Why-Sol Battery Solution Company, Cincinnati, Ohio. Registered February 14, 1922. Canceled June 20, 1928.

169,601. Preparation for exterminating rodents. Theodore Meyer, Philadelphia, Pa. Registered June 26, 1923. Canceled June 20, 1928.

169,894. Insecticide. Theodore Meyer, Philadelphia, Pa. Registered July 3, 1923. Canceled July 20, 1928.

193,384. Healing salve. William F. Baier, doing business as William F. Baier Manufacturing Company, St. Paul, Minn. Registered December 30, 1924. Canceled May 31, 1928.

193,781. Tablet or pill for indigestion. Charles F. Root, doing business as Chas. F. Root & Co., New York, N. Y. Registered January 6, 1925. Canceled June 20, 1928.

205,103. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered November 3, 1925. Canceled June 20, 1928.

205,104. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered November 3, 1925. Canceled June 20, 1928.

205,105. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered November 3, 1925. Canceled June 20, 1928.

205,106. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered November 3, 1925. Canceled June 20, 1928.

205,107. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered November 3, 1925. Canceled June 20, 1928.

205,108. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered November 3, 1925. Canceled June 20, 1928.

205,109. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered November 3, 1925. Canceled June 20, 1928.

205,110. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered November 3, 1925. Canceled June 20, 1928.

205,111. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered November 3, 1925. Canceled June 20, 1928.

205,112. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered November 3, 1925. Canceled June 20, 1928.

205,113. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered November 3, 1925. Canceled June 20, 1928.

205,114. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered November 3, 1925. Canceled June 20, 1928.

205,208. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered November 3, 1925. Canceled June 20, 1928.

205,209. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered November 3, 1925. Canceled June 20, 1928.

205,210. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered November 3, 1925. Canceled June 20, 1928.

205,419. Motor fuel oil. William H. Godfrey, Philadelphia, Pa. Registered November 3, 1925. Canceled May 31, 1928.

205,505. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered November 10, 1925. Canceled June 20, 1928.

205,656. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered November 10, 1925. Canceled June 20, 1928.

205,733. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered November 17, 1925. Canceled June 20, 1928.

221,638. Certain named toilet articles. Les Parfums De Rosine, New York, N. Y. Registered December 7, 1925. Canceled June 20, 1928.

225,614. Refractory paints. The Vitrefrax Company, Los Angeles, Calif. Registered March 22, 1927. Canceled June 20, 1928.

227,208. Silk goods and silk velvets. Knickerbocker Silk Co., New York, N. Y. Registered May 3, 1927. Canceled June 20, 1928.

230,176. Perfume. Jean Le Bloas, New York, N. Y. Registered July 12, 1927. Canceled June 20, 1928.

232,534. Hats for men. Knox Hat Company, Inc., New York, N. Y. Registered September 13, 1927. Canceled June 20, 1928.

234,805. Cotton piece goods. Otis Company, Boston, Mass. Registered November 8, 1927. Canceled June 20, 1928.

237,558. Fountain pens. D. W. Beaumel & Co., Inc., New York, N. Y. Registered January 10, 1928. Canceled June 20, 1928.

239,467. Overcoats and suits. L. J. & C. D. Jaffee Inc., New York, N. Y. Registered March 6, 1928. Canceled June 20, 1928.

Notices of Cancellation.

U. S. PATENT OFFICE, *Washington, June 23, 1928.*

The Apex Coal Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of The Masteller Coal Company, of Keyser, W. Va., to effect the cancellation of the trade-mark registration of The Apex Coal Company, of Fort Smith, Ark., No. 160,128, dated October 17, 1922, and the notice of such proceeding sent by registered mail to the said The Apex Coal Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said The Apex Coal Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, June 23, 1928.*

Alma Wooster, H. W. Patrick, and A. G. Palmer, their assigns or legal representatives, take notice:

An application was filed in this Office by Lysol, Incorporated, of Bloomfield, N. J., for cancellation of trade-mark registration No. 35,104, issued September 18, 1900, to Caroline W. Patrick, of 22 East Main Street, Norwalk, Ohio. The assignment records of this Office show a transfer of title of this registration to Alma Wooster, H. W. Patrick, and A. G. Palmer. Since the Office has been unable to obtain the post-office address of Alma Wooster, H. W. Patrick, and A. G. Palmer, the proceeding can not be instituted. Therefore notice is hereby given that unless said Alma Wooster, H. W. Patrick, and A. G. Palmer, their assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 10, 1928.

[VOL. 372. No. 2.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 248,782. MITCHELL & DILLON COAL COMPANY, Chicago, Ill. Filed May 10, 1927.

DORITE

For Coal.
Claims use since 1926.

Ser. No. 257,521. THE BERWIND-WHITE COAL MINING COMPANY, Philadelphia, Pa. Filed Nov. 14, 1927.

EUREKA

For Bituminous Coal.
Claims use since 1886.

Ser. No. 262,515. GEWERKSCHAFT AUGUSTE, Leutnitz, near Rottenbach, Germany. Filed Mar. 2, 1928.

Leukofix

For Heavy Spar in Powder and Paste Form.
Claims use since January, 1928.

Ser. No. 264,226. GALLOWAY COAL COMPANY, Memphis, Tenn. Filed Apr. 3, 1928. Under 10-year proviso.

GALLOWAY

For Coal.
Claims use since about October, 1892.

Ser. No. 264,529. NATIONAL STONE COMPANY, Kansas City, Mo. Filed Apr. 7, 1928.



No claim is made to the wording shown on the drawing, excepting the applicant's name, apart from the mark as shown.

For Sand, Clay, and Various Grades of Stone—Namely, Rubble, Riprap, Chippings, and Broken or Crushed Stone for Concrete Work.
Claims use since September, 1904.

Ser. No. 265,032. GEORGE C. BROWN & COMPANY, Memphis, Tenn. Filed Apr. 18, 1928.



For Kennel Bedding and Sawdust.
Claims use since about Apr. 1, 1926.

Ser. No. 265,294. RUDOLPH H. POINTS, doing business as Point's Seed Farms, Crosby, N. Dak. Filed Apr. 23, 1928.



For Field Seeds.
Claims use since Mar. 15, 1928.

Ser. No. 265,702. F. C. STAHELIN & SON, Bridgman, Mich. Filed Apr. 30, 1928.

STAHELIN'S *Brico*

For Strawberry Plants.
Claims use since Jan. 20, 1927.

Ser. No. 266,032. THE KALBAUGH COAL COMPANY, INC., Cumberland, Md. Filed May 7, 1928.

HERCULES SMOKELESS

Exclusive use of the word "Smokeless" is hereby disclaimed except in connection with the trade-mark as shown.
For Coal.
Claims use since Mar. 29, 1928.

Ser. No. 266,073. ANGUS, JORDAN & EXNER LIMITED, London, England. Filed May 8, 1928.

ANJEX

For Tanned Sheep and Goat Skins.
Claims use since Nov. 17, 1927.

Ser. No. 266,660. HARTMANN BROS. LEATHER CO., Boston, Mass. Filed May 19, 1928.

CONQUEROR

For Leathers.
Claims use since Sept. 29, 1927.

Ser. No. 266,726. FRIED-LANG LEATHER CO., INC., New York, N. Y. Filed May 21, 1928.

COMBO

For Leather.
Claims use since May, 1925.

Ser. No. 266,782. HARRY BERGER, doing business as H. Berger & Co., New York, N. Y. Filed May 22, 1928.

BERGNEW

For Artificial Furs.
Claims use since Apr. 1, 1928.

CLASS 2.

Receptacles.

Ser. No. 264,617. DANIEL H. STRAYER, Venice, Calif. Filed Apr. 9, 1928.

SUBMARINE SMOKE BOX

No claim is made to the words "Smoke Box" apart from the mark as shown.
For Waterproof Boxes and Receptacles Worn or Carried by Sportsmen, Hunters, Fishermen, Bathers, or Persons Engaged in Outdoor Sports, Pastimes, or Occupations for Containing Cigarettes, Tobacco, Matches, Jewelry, Keys, Money, and the Like.
Claims use since June 1, 1927.

Ser. No. 265,547. INTERSTATE COTTON OIL REFINING CO., Sherman, Tex. Filed Apr. 28, 1928.



For All Kinds of Wooden Boxes, Crates, and Cases for All Purposes.
Claims use since Apr. 13, 1928.

Ser. No. 265,629. ESKIMO PIE CORPORATION, Louisville, Ky. Filed Apr. 30, 1928.

THE MAGIC JAR

The word "Jar" does not form a part of the registration sought apart from the mark shown in the drawing.
For Vacuum Jars for the Storage of Food Products.
Claims use since about Nov. 15, 1927.

Ser. No. 265,822. ALBRECHT-BECHTOLD, INC., Philadelphia, Pa. Filed May 3, 1928.



The section lining on the drawing is representative of shading.
For Paper and Cloth Boxes of All Descriptions, and Merchandise Folders.
Claims use since February, 1927.

Ser. No. 266,432. LESCHEY MYERS CIGAR BOX CO., York, Pa. Filed May 15, 1928.

L-M

For Wooden Cigar Boxes.
Claims use since Feb. 4, 1924.

Ser. No. 266,433. LESCHEY MYERS CIGAR BOX CO., York, Pa. Filed May 15, 1928.



For Wooden Cigar Boxes.
Claims use since May 26, 1927.

Ser. No. 266,470. LILLIAN MARSTON, Buffalo, N. Y. Filed May 16, 1928.



For Sanitary Refill Paper Bag Linings for Garbage Cans.
Claims use since on or about May 10, 1928.

CLASS 3.

Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 265,808. REX LEATHER GOODS CORP., New York, N. Y. Filed May 2, 1928.

The Barrister

For Brief Cases and School Bags of Leather, Canvas, and Other Compositions.
Claims use since Mar. 10, 1928.

Ser. No. 265,809. REX LEATHER GOODS CORP., New York, N. Y. Filed May 2, 1928.

THE COUNSELOR

For Brief Cases and School Bags of Leather, Canvas, and Other Compositions.
Claims use since Mar. 10, 1928.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 244,668. CONTINENTAL CHEMICAL CORPORATION OF ILLINOIS, Watseka, Ill. Filed Feb. 21, 1927.

DETERGO

For Powder for Cleaning All Kinds of Floors, Dishes, Linens, Etc.
Claims use since Aug. 1, 1922.

Ser. No. 255,132. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio. Filed Sept. 23, 1927.

IVORINE

For Washing Powder.
Claims use since Apr. 1, 1888.

Ser. No. 263,878. PHILIP MAROCHINI, Chicago, Ill. Filed Mar. 28, 1928.



The word "Soakwhite" is disclaimed apart from the mark shown.

For Washing Fluid Used for Laundering Purposes.

Claims use since Feb. 28, 1925.

Ser. No. 264,547. WAXOLIN, INC., Omaha, Nebr. Filed Apr. 7, 1928.

WAXOLIN

For Dust-Absorbing Compounds.

Claims use since Mar. 21, 1928.

Ser. No. 265,775. MILAN BEDROSIAN, doing business as Oriento Manufacturing Co., Elmira, N. Y. Filed May 2, 1928.

ORIENTO

For Cleansing Preparation for Rugs, Silks, Satins, Wool, and Cotton.

Claims use since Mar. 1, 1928.

Ser. No. 266,622. I. ROKEACH & SONS, INC., Brooklyn, N. Y. Filed May 18, 1928.



No claim is made to the words "Kosher Scouring Powder" and "To Clean and Polish" and "Brooklyn, N. Y." The translation of the Hebrew words appearing on the mark are "Rokeach's Kosher Scouring Powder" and "To Clean and Polish" and "Brooklyn, N. Y."

For Scouring Powder.

Claims use since June, 1912.

Ser. No. 266,855. DOX COMPANY, San Francisco and Emeryville, Calif. Filed May 23, 1928.



For Washing and Cleaning Compound.

Claims use since Apr. 25, 1928.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 248,055. THE PRIGLER COMPANY, Detroit, Mich. Filed Apr. 27, 1927.



Applicant disclaims the word "Liniment" apart from the mark as shown on the drawing.

For Liniment for Use in the Treatment of Rheumatism, Lumbago, Sore Feet, Stiff Neck, Burns, Sprains, Bruises, Cramps, and Pleurisy.

Claims use since Nov. 10, 1926.

Ser. No. 249,608. THE SHA-O-CHEM COMPANY, Trevorton, Pa. Filed May 26, 1927.

SHA-O-CHEM

For Pharmaceutical Preparation—Namely, Lung Balsam.

Claims use since Feb. 14, 1927.

Ser. No. 249,609. THE SHA-O-CHEM COMPANY, Trevorton, Pa. Filed May 26, 1927.



The red color is a material feature of the mark.

For Lung Balsam.

Claims use since Feb. 14, 1927.

Ser. No. 252,291. HELENA RUBINSTEIN, INC., New York, N. Y. Filed July 19, 1927.

VALAZE CREAM OF LILIES

New York
London
Paris



Helena Rubinstein

None genuine without this signature

No claim is made to the words "Cream of Lilies, New York, London, Paris," and "None Genuine Without This Signature" apart from the mark shown in the drawing. "Helena Rubinstein" was the maiden name of Mrs. Titus, applicant's president, and the signature is that of Mrs. Titus as written before her marriage.

For Face Creams.

Claims use since June, 1904.

Ser. No. 252,468. JACOB FRIEDLIEB, Rockaway Beach, N. Y. Filed July 23, 1927.

PHYSI-POP

For Laxative Lollypops.

Claims use since Sept. 10, 1925.

Ser. No. 254,067. CYRILLUS WIRTH, Bettendorf and Davenport, Iowa. Filed Aug. 27, 1927.

RHEUMATOL WR WIRTH

Applicant disclaims the surname "Wirth" apart from the mark as shown in the drawing.

For Pharmaceutical Preparation—Namely, a Medicinal Liniment for External Use in Treating Human Ailments—Namely, Rheumatism, Neuralgia, Coughs, Sore Throat, Croup, Pneumonia, Asthma, Bronchitis, Lumbago, and Pain in the Stomach, Bowels, and Abdomen Due to Inflammation and Flatulence.

Claims use since June 1, 1907.

Ser. No. 254,642. J. GUY MUNSELL, doing business as Munsell's Mineral Food Company, Lincoln, Nebr. Filed Sept. 12, 1927.

MINERALAX

For Preparation for the Relief of Constipation.

Claims use since Aug. 6, 1927.

Ser. No. 255,774. CARROLL DUNHAM SMITH PHARMACAL Co., New York, N. Y. Filed Oct. 7, 1927.

Hemorrhol

For Suppositories and Ointment for the Treatment of Hemorrhoids and Piles.
Claims use since Oct. 3, 1901.

Ser. No. 256,058. SOCIETE PARISIENNE DES PRODUITS DE BEAUTE GANNA WALSKA, Paris, France. Filed Oct. 13, 1927.



The word "Paris" appearing in the drawing is disclaimed apart from the mark shown.
For Perfumes, Eau de Cologne, Toilet Waters, Toilet Lotions, Face Powders, Compact Powders, Skin Creams, Rouge, and Lip Sticks.
Claims use since June 1, 1927.

Ser. No. 256,621. THE GILBERT COMPANY, Philadelphia, Pa. Filed Oct. 26, 1927.



The words "Soda Mint Gum" and the outer border line representing the outer edge of the carton merely are disclaimed apart from the mark illustrated. Contrast in coloring has been secured by forming the outer border and the words "Soda Mint Gum" in green lettering inclosing and against a black background, coloring the word "Gilberts" and the bar red, and coloring the triangle white.
For Medicated Chewing Gum.
Claims use since May, 1926.

Ser. No. 256,748. KLEO STALUS, Woodside, N. Y. Filed Oct. 28, 1927.



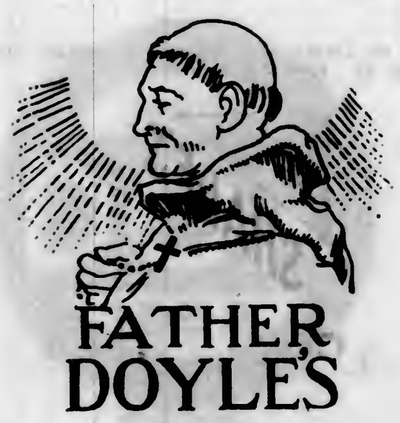
For Hair Tonic.
Claims use since July 1, 1926.

Ser. No. 257,068. ALBERT M. HOPPER, doing business as A. M. Hopper & Co., New York, N. Y. Filed Nov. 4, 1927.

BETAPHEN

For Laxatives.
Claims use since Oct. 28, 1927.

Ser. No. 257,208. SIMMS DRUG Co. St. Louis, Mo. Filed Nov. 7, 1927.



FATHER DOYLE'S

The portrait shown is fanciful.
For Tonic for Lung Troubles, Coughs, Colds, Influenza, and Night Sweats.
Claims use since Aug. 1, 1927.

Ser. No. 257,479. ALBERT KOSSMAN, doing business as Kossman Chemical Co., New Orleans, La. Filed Nov. 12, 1927.

FORCE
DRAIN OPENER

No claim is made to the words "Drain Opener" apart from the mark shown.
For Drain-Opening Chemical Solvent.
Claims use since March, 1927.

Ser. No. 257,532. E. DALTROFF & CIE., doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 14, 1927.

CHEZ MOI

For Pastes and Powders for Beautifying and Preserving the Teeth, Skin, and Hair and Perfumery.
Claims use since July 1, 1927.

Ser. No. 257,770. AYERST, MCKENNA & HARRISON LIMITED, Montreal, Canada. Filed Nov. 19, 1927.



The words "Biologically Tested Cod Liver Oil" and the representation of a bottle are disclaimed.
For Cod-Liver Oil.
Claims use since Sept. 26, 1926.

Ser. No. 257,948. JOSEPH WILLICOMBE, doing business as Voila, Inc., New York, N. Y. Filed Nov. 22, 1927.



For Liquid Beautifier.
Claims use since Nov. 1, 1927.

Ser. No. 258,524. GAS GRAIN TREATER Co., Portland, Oreg. Filed Dec. 6, 1927.



Applicant disclaims the word "Trade-Mark" from the mark as shown in the drawing, as, of course, this is not capable of exclusive appropriation.
For Grain-Treating Materials, Specifically Liquid, Powdered, and Gaseous Chemicals for Combating Smut and Kindred Growths.
Claims use since Nov. 28, 1927.

Ser. No. 259,025. SEYMOUR-HOWARD CORPORATION, Chicago, Ill. Filed Dec. 16, 1927.

HYXOL

For Antiknock Compound in the Form of a Chemical Preparation to be Added to Gasoline to Prevent Knocking in Internal-Combustion Engines.
Claims use since July 1, 1926.

Ser. No. 259,224. NATHAN DRUCKER, doing business as Stop Remedy Co., Newport, Ky. Filed Dec. 21, 1927.

TRADE MARK



INDIGESTOP

Applicant disclaims exclusive use of the following words: "Trade Mark" except when used as shown in the mark presented.

For Medicine for Dyspepsia, Heartburn, and Stomach Troubles.

Claims use since Nov. 5, 1927.

Ser. No. 259,265. UNITED STATES LIME PRODUCTS CORPORATION, San Francisco, Calif. Filed Dec. 22, 1927.

ARROW HEAD BRAND

The descriptive word "Brand" is disclaimed apart from the mark as shown.

For Hydrated and Quick Lime Sold as Chemicals for Use in the Production of Sugar, Steel, Ice, Insecticides, Paper, and Analogous Manufactures.

Claims use since about January, 1922.

Ser. No. 259,612. MICHAEL ANDERSON, Dayton, Ohio. Filed Jan. 3, 1928.

SONGOID

For Bird Tonic.

Claims use since December, 1926.

Ser. No. 260,368. DR. R. L. RICHARDSON, doing business as Richardson Chemical Co., Franklin, Tenn. Filed Jan. 19, 1928.

Richardsons XEMACUE

For Ointment for Local Treatment of Eczema, Tetter, Ringworm, Sunburn, Chafing, Sting of Insects, and Poison Ivy.

Claims use since Aug. 20, 1927.

Ser. No. 260,398. MRS. FRANK J. MAZY, Omaha, Nebr. Filed Jan. 20, 1928.

"STORED AWAY ATTIC"

For Medicines for Use in the Treatment of Diseases of the Lungs and Tuberculosis.

Claims use since June 15, 1926.

Ser. No. 260,919. SNELSON & SONS, Atlanta, Ga. Filed Jan. 30, 1928.

SNELSON

SNELSON'S LOTION

No claim is made to the word "Lotion" apart from the mark as shown.

For Skin Lotion.

Claims use since July 14, 1927.

Ser. No. 261,312. GOLDEN HIND LAXATIVE COMPANY, Northampton, Mass. Filed Feb. 7, 1928.



For Fruit Laxative Made of Pure Fruit Properly Medicated and Not Containing Any Deleterious Drug.

Claims use since January, 1928.

Ser. No. 261,843. GEORGE SOTIRIADES, doing business as George Tsioungas, Gary, Ind. Filed Feb. 17, 1928.

SOTIRION

For Medicine for Treating Stomach Ailments.

Claims use since Dec. 15, 1927.

Ser. No. 261,938. JOSEPH C. BRASHER, doing business as Pan-Lax Company, Dallas, Tex. Filed Feb. 20, 1928.



For Preparation for the Treatment of Coughs, Colds, Tonsilitis, Croup, and Whooping Cough, Also as an Effectual Medicine for Catarrh, Bronchitis, Asthma, Hay Fever, and All Diseases of the Respiratory System.

Claims use since June 20, 1927.

Ser. No. 261,970. MARIE EARLE, INC., New York, N. Y. Filed Feb. 20, 1928.

Marie Earle

"Marie Earle" written in the handwriting of Juanita Ebbsmith, a member of the original firm of Marie Earle, constitutes the trade-mark.

For Salve, Tonic, and Lotion for Application to and Treatment of the Skin, Toilet Cream, Toilet Water, Hair Lotion, Hair Tonic, Dentifrice, Ointment for the Eyebrows, Toilet Powder, Milk of Almonds, Rouge; Emulsion of Cucumbers, a Cooling Whitening Preparation to be Used in Conjunction with All Creams Which Greatly Hastens the Absorption and Assimilation of the Nourishment in the Creams, Making Them More Penetrating; Essence of Rose Leaves, Eye Tonic, Liquid Toilet Powder, Reducing Lotion, Bath Salts, and Perfume.

Claims use since 1916 on bath salts, since 1922 on perfume, and since spring of 1901 on all balance of goods.

Ser. No. 262,466. VICTOR F. KRING, doing business as Dr. Morrison's Medical Research Laboratories, Fort Wayne, Ind. Filed Mar. 1, 1928.

Pureall

For Cough Syrups, Kidney Pills, Camphor Cream Liniment, Nerve and Bone Liniment, Diuretic Elixir, Syrup Hypophosphites, Cod Tonic, Sarsaparilla Comp., Celery and Iron Tonic, Haarlem Oil Capsules, Sore-Throat Remedy, Earache Oil, Dyspepsia Tablets, Seidlitz Powder 3's, Aspirin Tablets, Toothache Gum, Rubbing Alcohol; Beef, Iron, and Wine; Quinine Sulphate; Blue Ointment, Tube; Zinc Ointment, Tube; Analgesic Balm, Tube; Hygienic (Douche Powder), Blue Vitriol, Boracic Acid, Cascara Comp. Tablets, Compound Licorice Powder, Copperas, Cream of Tartar, Curry Powder, Epsom Salts, Flaxseed Meal, Lump Alum, Oxalic Acid, Powdered Alum, Powdered Yellow Mustard, Powdered Orris Root, Powdered Henna, Rochelle Salts, Saltpeter, Salicylic Acid, Sulphur, Sugar of Lead, Sodium Bicarbonate, Water Softener, Whole Flaxseed, Aqua Ammonia, Aromatic Spirit Ammonia, Aromatic Castor Oil, Bay Rum, Camphorated Oil, Carbolic Acid, Castor Oil, Chloroform Liniment, Coco Quinine; Elixir Iron, Quinine, and Strychnine; Eff. Sol. Citrate of Magnesia, Cream Hand Lotion, Elixir Lactated Pepsin, Essence Pepsin, Essence of Peppermint, Extract Witch-Hazel, F. E. Cascara Arom., F. E. Cascara Arom, Formaldehyde; Glycerine; Glycerine, Bay Rum, and Rose Water; Larkspur Lotion, Oil Citronella, Pure Cod-Liver Oil, Quinine Capsules, Saturated Solution Boric Acid, Senna Leaves, Soap Liniment, Spirits of Camphor, Spirits of Nitre, Syrup White-Pine Compound Mentholated with A. P., Tincture Arnica, Tincture Iodine, Toothache Drops, Turmeric, Zinc Sulphate, Cold Capsules.

Claims use since Jan. 1, 1926.

Ser. No. 262,771. SAMUEL RUGOF, doing business as Rugof Chemist, New York, N. Y. Filed Mar. 7, 1928. The words "Rugof Chemist" are hereby disclaimed.

Rugof Chemist

For Sweet Spirits of Nitre, Witch-Hazel, Citrate of Magnesia, Boric Acid, and Bay Rum.

Claims use since Nov. 15, 1927.

Ser. No. 262,994. WALTER BAIRD, doing business as You-Tha-Gan Company, Houston, Tex. Filed Mar. 12, 1928.

YOU-THA-GAN

For Nerve Tonic Put Up in Liquid Form.

Claims use since Nov. 23, 1925.

Ser. No. 263,638. GEORGE W. BRIGGS, Johnstown, Pa. Filed Mar. 23, 1928.

SNOWDRIFT CRYSTALS

No claim is made to the word "Crystals."

For Washing-Soda Product.

Claims use since May 24, 1926.

Ser. No. 263,709. LES ETABLISSEMENTS POULENC FRERES, Paris, France. Filed Mar. 24, 1928.

NEPTAL

For Compounds for the Treatment of Diabetes and Arterial Hypertension.
Claims use since June 17, 1927.

Ser. No. 263,846. GEORGE H. WEYER, St. Joseph, Mo. Filed Mar. 27, 1928.



The trade-mark drawing is fanciful and not a portrait of a living individual.
For Hair Tonic.
Claims use since Dec. 17, 1927.

Ser. No. 263,877. LYTZO COMPANY, Chicago, Ill. Filed Mar. 28, 1928.

LYTZO

For Liquid Fuel for Cigar and Cigarette Lighters.
Claims use since Feb. 2, 1928.

Ser. No. 264,430. THOMAS W. HICKS, doing business as Breath of New Mown Hay Co., Minneapolis, Minn. Filed Apr. 6, 1928.

"Nu-Mown-Hay"

For Deodorants, Revitalizers, Liquid Sprays to be Used to Freshen and Perfume the Air.
Claims use since Mar. 18, 1928.

Ser. No. 264,490. MANUEL GREY, Mexico, Mexico. Filed Apr. 7, 1928.

FERRO-HISTO

For Medicinal Preparation Used as an Injection as a Tonic in the Treatment of Anemia, Tuberculosis, Influenza, Malaria, Neurasthenia, and Skin Affections.
Claims use since Jan. 15, 1927.

Ser. No. 264,491. MANUEL GREY, Mexico, Mexico. Filed Apr. 7, 1928.

NAULINA

For Medicinal Preparation Indicated in the Treatment of Broncho-Pneumonia, Bronchitis, Whooping Cough, Influenza, and Affections of the Respiratory Organs.
Claims use since Jan. 15, 1927.

Ser. No. 264,510. FEDERAL DISTRIBUTORS, INC., doing business as the Lucky Girl Company, Portland, Oreg. Filed Apr. 7, 1928.

LUCKY GIRL

For Cocoanut Shampoo, Perfume, Toilet Water, Vanishing Cream, Cleansing Cream, Bath Crystals, Face Powder, Dental Cream, Nail Polish, and Antiseptic.
Claims use since Sept. 1, 1927.

Ser. No. 264,552. BALFOUR, GUTHRIE & CO., San Francisco, Calif. Filed Apr. 9, 1928.

TRIONA

For Insecticides Used as Garden and Orchard Sprays.
Claims use since June 10, 1925.

Ser. No. 264,572. ESKIMO PIE CORPORATION, Louisville, Ky. Filed Apr. 9, 1928.

MAGIC ICE

For Solidified Carbon Dioxide.
Claims use since about Nov. 15, 1927.

Ser. No. 264,602. S. PFEIFFER MFG. CO., St. Louis, Mo. Filed Apr. 9, 1928.

GOLD MEDAL

For Medicinal Preparations and Products—Namely, Analgesic Balm, Vaginal and Pile Suppositories, Antiseptic Powders and Tablets, Diuretics, Alteratives, General Body-Building and Chill Tonics, Preparations for the Relief of Headache, Neuralgia, Colds, and Grippe, Affections and Disorders of the Liver, Kidneys, and Bowels, Colic and Diarrhœa, Throat Affections, Worms, and Corns, Laxative Pills and Tablets, Dyspepsia Tablets, Liniment for Relief of Neuralgia and Muscular Pains, Stiff Joints, Lame Muscles, Insect Bites, Swelling, Sprains, and Bruises, Foot-Bath Tablets, Boil Salve, Earache Oil, Eye Wash, Nasal Oil, Pile Ointments, Toothache Gum and Drops, Santal Capsules, Castor Oil, and Cough Syrup.
Claims use since Apr. 1, 1927.

Ser. No. 264,702. SCOTT & GILBERT CO., San Francisco, Calif. Filed Apr. 11, 1928.

S & G

For Belladonna Plasters, Healing Powder, Cold Tablets, Aspirin Tablets, Cod-Liver Oil, White Mineral Oil, Castoria (Laxative Syrup), Gargle and Mouth Wash, Hamburg Tea (Laxative Tea), Kidney Plasters, Rub Alcohol, Aromatic Cascara Cordial, Magnesia Lax and Magnesia Split (Laxatives Containing Citrate of Magnesia), Menthol Syrup, Botanic Pills (Cathartic), Rubbing Oil.
Claims use since on or about Jan. 1, 1915, on belladonna plasters, healing powder, cold tablets, aspirin tablets, cod-liver oil, white mineral oil, castoria (laxative syrup), Hamburg tea (laxative tea), and gargle and mouth wash; on kidney plasters, rub alcohol, aromatic cascara cordial, magnesia lax, and magnesia split (laxatives containing citrate of magnesia) since on or about Jan. 1, 1924; in menthol syrup and botanic pills (cathartic) since on or about Jan. 1, 1927; and on rubbing oil since on or about Jan. 1, 1928.

Ser. No. 264,715. COTY, INC., Wilmington, Del., and New York, N. Y. Filed Apr. 12, 1928.

OLYMPIC

For Lip Rouge and Lip Sticks.
Claims use since June, 1927.

Ser. No. 264,723. JOHANN MARIA FARINA, INC., New York, N. Y. Filed Apr. 12, 1928.



The lining indicates red color.
For Eau de Cologne.
Claims use since Apr. 15, 1927.

Ser. No. 264,847. THE SCHETTLER DRUG COMPANY, Detroit, Mich. Filed Apr. 14, 1928.

Enfin

For Perfumes, Toilet Waters, Talcum, Face Powder, Bath Dusting Powder, and Sachet.
Claims use since Mar. 1, 1928.

Ser. No. 264,996. AARON MAST, doing business as Steinway Perfumery Shop, Long Island City, N. Y. Filed Apr. 17, 1928.

For Queen

For Face Lotions, Face Creams, Face Powders, Toilet Powders, Talcum Powders, Perfumes, Toilet Waters, Bath Salts, Sachets, Rouges (Liquid, Powder, and Compact), Eyebrow Pencils, Lip Sticks, Brilliantine, and Nail Polishes.
Claims use since Apr. 2, 1928.

Ser. No. 265,009. PEOPLES DRUG STORES, INC., doing business as Moret Parfumeur, Washington, D. C. Filed Apr. 17, 1928.

Moret Mille Amours

For Toilet Water, Cold Cream, Vanishing Cream, Tissue Builder, Cleansing Cream, Talcum Powder, Body Powder, Face Powder, Dusting Powder, Deodorant, Bandoline, Brilliantine, Lip Stick, Rouge Compacts, Eyebrow Pencil, Powder Compacts, Perfume, Skin Lotion, Astringent, Shampoo, Vegetable Bath Salts, Hair Tonic, and Tissue Cream.
Claims use since Mar. 31, 1927.

Ser. No. 265,010. PEOPLES DRUG STORES, INC., doing business as Moret Parfumeur, Washington, D. C. Filed Apr. 17, 1928.



For Toilet Water, Cold Cream, Vanishing Cream, Preparation for Building Tissue, Cleansing Cream, Talcum Powder, Body Powder, Face Powder, Dusting Powder, Deodorant, Bandoline, Brilliantine, Lip Stick, Rouge Compacts, Eyebrow Pencil, Powder Compacts, Perfume, Skin Lotion, Astringent, Shampoo, Vegetable Bath Salts, Hair Tonic, and Tissue Cream.
Claims use since Mar. 31, 1927.

Ser. No. 265,160. THE LUSTRITE CORPORATION, New York, N. Y. Filed Apr. 20, 1928.

MY-SHADE

No claim is made to the exclusive use of the word "Shade" apart from the mark as shown in the drawing.
For Finger-Nail Dressings.
Claims use since Mar. 28, 1928.

Ser. No. 265,203. W. C. EVERETT & COMPANY, Andrews, N. C. Filed Apr. 21, 1928.



W. C. Everett

The picture appearing in the drawing is a pen and ink drawing of a portrait of the applicant, W. C. Everett, and the signature is a facsimile representation of the signature of applicant.
For Preparation Used in the Treatment of Pellagra, Sore Mouth, Sore Throat, Tonsilitis, Loss of Appetite, and All Inward Inflammations.
Claims use since Jan. 1, 1928.

Ser. No. 265,233. WILLIAM M. PARKER, Omaha, Nebr. Filed Apr. 21, 1928.

TONAL

For Blood Tonic.
Claims use since Jan. 21, 1928.

Ser. No. 265,250. C. W. BEGGS, SONS & CO., Chicago, Ill. Filed Apr. 23, 1928.



No claim of exclusiveness is made to the words "Brilliantine" and "de France" apart from the mark as shown.
For Cosmetics—Namely, Brilliantine.
Claims use since about April, 1926.

Ser. No. 265,251. C. W. BEGGS, SONS & CO., Chicago, Ill. Filed Apr. 23, 1928.

Marcelle
de France

No claim of exclusiveness is made to the words "de France" apart from the mark shown.
For Cosmetics—Namely, Astringent Lotion, Cleansing Cream, and Skin Tissue Builder.
Claims use since about April, 1926.

Ser. No. 265,370. ELLIS-FOSTER COMPANY, Montclair, N. J. Filed Apr. 25, 1928.

REZYL

For Synthetic Resins for Coating and Impregnating Purposes.
Claims use since Apr. 3, 1928.

Ser. No. 265,374. ADOLPH FOGEL, doing business as Wave-Bak Co., Milwaukee, Wis. Filed Apr. 25, 1928.

WAVE-BAK

For Liquid Hair Wash.
Claims use since Mar. 1, 1928.

Ser. No. 265,427. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Apr. 26, 1928.

DU PONT DYESTUFFS

LUXOL

The word "Dyestuffs" is disclaimed apart from the mark shown in the drawing. Applicant is the owner of registration No. 167,613.
For Dyes and Dyestuffs.
Claims use since Oct. 16, 1925.

Ser. No. 265,428. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Apr. 26, 1928.

DU PONT DYESTUFFS

SULFOGENE

The words "Dyestuffs" and "Sulfogene" are disclaimed apart from the mark shown in the drawing. Applicant is the owner of registration No. 167,613.
For Dyes and Dyestuffs.
Claims use since Nov. 20, 1924.

Ser. No. 265,580. SPOREL MFG. CO., Brooklyn, N. Y. Filed Apr. 28, 1928.

SPOREL

For Medicine for External Application in the Treatment of Eczema, Ringworm, Itch, Scabies, Pimples, and in the Treatment of Mange for Animals.
Claims use since about Mar. 2, 1928.

Ser. No. 265,597. JOHN WILHELM, doing business as Wav-Life Laboratories, Chicago, Ill. Filed Apr. 28, 1928.

Wav-life

For Pharmaceutical Preparation in Liquid Form for Use as a Wave Retainer and Hairdressing.
Claims use since Mar. 20, 1928.

Ser. No. 265,797. A. J. KRANK MFG. CO., St. Paul, Minn. Filed May 2, 1928.

LIP-CHARM

For Lip Stick.
Claims use since Apr. 10, 1928.

Ser. No. 265,823. AUGUSTIN ALIANIELLO, doing business as Penataquit Drug Company, Bay Shore, N. Y. Filed May 3, 1928.

NORMALTONE

For Preparation for the Treatment of Rheumatism, Lumbago, Sciatica, Gout, or Lithemia.
Claims use since Nov. 26, 1926.

Ser. No. 265,900. GOODRICH-ESHBAUGH CHEMICAL LABORATORIES, INC., Ossining and New York, N. Y. Filed May 4, 1928.

MAG-TABS

For Medicated Chewing Gum for Corrective Mouth Acidity, Dyspepsia, Nausea, Heartburn, and Indigestion; Tooth Paste, Tooth Powder, Mouth Wash, and Tablets for Acid Stomach, Bad Breath, Flatulence, Acid Mouth, Nausea, Car Sickness, Seasickness, Laxative, Dyspepsia, Biliousness, and Heartburn.
Claims use since Apr. 1, 1928, on milk of magnesia tablets and on remaining goods since Apr. 19, 1928.

Ser. No. 265,974. LETAC CHEMICAL CO., INC., New York, N. Y. Filed May 5, 1928.

GLYCALLIUM
LETAC
MISTURA ALLII COMPOSITA

The words "Mistura Allii Composita" are disclaimed apart from the mark shown.
For Medicine for Use in the Treatment of High Blood Pressure.
Claims use since Apr. 1, 1928.

Ser. No. 266,030. WILBUR T. HURT, doing business as Throatex Laboratories, Hollywood, Calif. Filed May 7, 1928.

Throatex

For Bactericidal and Germicidal Antiseptic Solution for the Treatment of Sore Throat, Tonsillitis, Catarrh, and Pyorrhea.
Claims use since Apr. 6, 1928.

Ser. No. 266,168. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, and Berlin, Germany. Filed May 9, 1928.

Morexan

For Insecticides.
Claims use since Nov. 10, 1927.

Ser. No. 266,182. ISAAC A. ARNOLD, Cozad, Nebr. Filed May 10, 1928.



For Healing Compound Used for the Treatment of Cuts, Burns, Eczema, Mange on Animals, Sore Shoulders on Horses, and Thrush on Foot.
Claims use since Dec. 1, 1925.

Ser. No. 266,190. BOB CLINTON MFG. CO., Birmingham, Ala. Filed May 10, 1928.

BOB CLINTON'S LINIMENT



Bobblinton

The word "Liniment" is not claimed apart from other features of the mark shown. The mark consists in the name of "Bob Clinton's Liniment" associated with the portrait and facsimile signature of Bob Clinton, who is a member of the firm.
For Liniment for External Use in Relieving Muscular Pains.
Claims use since May 4, 1928.

Ser. No. 266,372. THE HERPICIDE COMPANY, Detroit, Mich. Filed May 14, 1928.

Herpi-Lay

For Preparation for the Treatment of Hair and Scalp.
Claims use since on or about Mar. 31, 1928.

Ser. No. 266,419. FELIX ALFARO DIAZ, doing business as Laboratoires Filarysine, Santurce, P. R. Filed May 15, 1928.

Glicorrenal
DU DR. DUMONT

For Pharmaceutical Preparation to be Used as a General Tonic.
Claims use since December, 1926.

Ser. No. 266,473. NATIONAL MAGNESIA CO. INC., Brooklyn, N. Y. Filed May 16, 1928.

TROMA

For Laxatives.
Claims use since May 11, 1928.

Ser. No. 266,483. THE RESINOUS PRODUCTS AND CHEMICAL COMPANY, Philadelphia, Pa. Filed May 16, 1928.

ALBERTOL

For Synthetic or Chemically-Prepared Resins.
Claims use since Nov. 5, 1927.

Ser. No. 266,636. THE HERMANOS, Richmond, Va., and New York, N. Y. Filed May 18, 1928.

ZARA

For Licorice in Stick, Tablet, and Pearl Form.
Claims use since Mar. 25, 1924.

Ser. No. 266,744. PERDENTIN LABORATORIES, INC., New York, N. Y. Filed May 21, 1928.

Perdentin

For Local Anesthetic.
Claims use since about June 1, 1926.

Ser. No. 266,774. EMERSON N. ABBOTT, Baldwin, N. Y. Filed May 22, 1928.

SUPERTINT

For Dyes.
Claims use since about December, 1927.

Ser. No. 266,891. NATHANIEL J. SEGAL, doing business as Jendl Drug Co., Baltimore, Md. Filed May 23, 1928.

Chero-Citrate

No claim is made to the exclusive use of the word "Citrate" apart from the mark shown in the drawing.
For Citrate of Magnesia.
Claims use since Apr. 1, 1928.

Ser. No. 267,043. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed May 26, 1928.

HIGH SPEED

For Tinning Fluxes.
Claims use since about Apr. 25, 1928.

CLASS 8.

Smokers' Articles, Not Including Tobacco Products.

Ser. No. 254,366. REGINALD C. THOMAS, Brooklyn, N. Y. Filed Sept. 3, 1927.

OUT-O

For Ash Trays and Cigar and Cigarette Extinguishers.
Claims use since May 1, 1927.

Ser. No. 264,202. E. A. KLINE, doing business as E. A. Kline & Co., New York, N. Y. Filed Apr. 4, 1928.

MEDALIST

For Ash Trays or Receivers, Cigar and Cigarette Tubes and Holders, Cigarette Cases, and Paper Moisteners for Cigars, Cigarettes, and Manufactured Tobacco; Table Smoking Sets, Smoker's Compact, Humidors, Match Strikers, Pipes, Pipe Racks and Cases, Pipe Stems and Bowls, Pipe Buttons, and Tobacco Jars and Pouches.
Claims use since Feb. 29, 1928.

Ser. No. 267,156. TIFFANY & COMPANY, New York, N. Y. Filed May 28, 1928.



For Tobacco Pipes, Cigar and Cigarette Holders Made of Amber, Cigar and Cigarette Cases Made of Leather or Silk, Humidors and Ash Trays Made of Glass, Wood, or Base Metal.
Claims use since Mar. 16, 1900.

Ser. No. 266,030. WILBUR T. HURT, doing business as Throatex Laboratories, Hollywood, Calif. Filed May 7, 1928.

Throatex

For Bactericidal and Germicidal Antiseptic Solution for the Treatment of Sore Throat, Tonsillitis, Catarrh, and Pyorrhea.
Claims use since Apr. 6, 1928.

Ser. No. 266,168. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, and Berlin, Germany. Filed May 9, 1928.

Morexan

For Insecticides.
Claims use since Nov. 10, 1927.

Ser. No. 266,182. ISAAC A. ARNOLD, Cozad, Nebr. Filed May 10, 1928.



For Healing Compound Used for the Treatment of Cuts, Burns, Eczema, Mange on Animals, Sore Shoulders on Horses, and Thrush on Foot.
Claims use since Dec. 1, 1925.

Ser. No. 266,190. BOB CLINTON MFG. CO., Birmingham, Ala. Filed May 10, 1928.

BOB CLINTON'S LINIMENT



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The word "Liniment" is not claimed apart from other features of the mark shown. The mark consists in the name of "Bob Clinton's Liniment" associated with the portrait and facsimile signature of Bob Clinton, who is a member of the firm.
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Claims use since May 4, 1928.

Ser. No. 266,372. THE HERPICIDE COMPANY, Detroit, Mich. Filed May 14, 1928.

Herpi-Lay

For Preparation for the Treatment of Hair and Scalp.
Claims use since on or about Mar. 31, 1928.

Ser. No. 266,419. FELIX ALFARO DIAZ, doing business as Laboratoires Filarysine, Santurce, P. R. Filed May 15, 1928.

Glicorrenal
DU DR. DUMONT

For Pharmaceutical Preparation to be Used as a General Tonic.
Claims use since December, 1926.

Ser. No. 266,473. NATIONAL MAGNESIA CO. INC., Brooklyn, N. Y. Filed May 16, 1928.

TROMA

For Laxatives.
Claims use since May 11, 1928.

Ser. No. 266,483. THE RESINOUS PRODUCTS AND CHEMICAL COMPANY, Philadelphia, Pa. Filed May 16, 1928.

ALBERTOL

For Synthetic or Chemically-Prepared Resins.
Claims use since Nov. 5, 1927.

Ser. No. 266,636. THE HERMANOS, Richmond, Va., and New York, N. Y. Filed May 18, 1928.

ZARA

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Claims use since Mar. 25, 1924.

Ser. No. 266,744. PERDENTIN LABORATORIES, INC., New York, N. Y. Filed May 21, 1928.

Perdentin

For Local Anesthetic.
Claims use since about June 1, 1926.

Ser. No. 266,774. EMERSON N. ABBOTT, Baldwin, N. Y. Filed May 22, 1928.

SUPERTINT

For Dyes.
Claims use since about December, 1927.

Ser. No. 266,891. NATHANIEL J. SEGAL, doing business as Jend Drug Co., Baltimore, Md. Filed May 23, 1928.

Chero-Citrate

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Claims use since Apr. 1, 1928.

Ser. No. 267,043. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed May 26, 1928.

HIGH SPEED

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Claims use since about Apr. 25, 1928.

CLASS 8.

Smokers' Articles, Not Including Tobacco Products.

Ser. No. 254,366. REGINALD C. THOMAS, Brooklyn, N. Y. Filed Sept. 3, 1927.

OUT-O

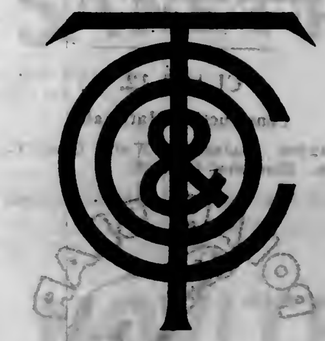
For Ash Trays and Cigar and Cigarette Extinguishers.
Claims use since May 1, 1927.

Ser. No. 264,209. E. A. KLINE, doing business as E. A. Kline & Co., New York, N. Y. Filed Apr. 4, 1928.

MEDALIST

For Ash Trays or Receivers, Cigar and Cigarette Tubes and Holders, Cigarette Cases, and Paper Moisteners for Cigars, Cigarettes, and Manufactured Tobacco; Table Smoking Sets, Smoker's Compact, Humidors, Match Strikers, Pipes, Pipe Racks and Cases, Pipe Stems and Bowls, Pipe Buttons, and Tobacco Jars and Pouches.
Claims use since Feb. 29, 1928.

Ser. No. 267,156. TIFFANY & COMPANY, New York, N. Y. Filed May 28, 1928.



For Tobacco Pipes, Cigar and Cigarette Holders Made of Amber, Cigar and Cigarette Cases Made of Leather or Silk, Humidors and Ash Trays Made of Glass, Wood, or Base Metal.
Claims use since Mar. 16, 1900.

CLASS 10.

Fertilizers.

Ser. No. 265,663. ALEXANDER BASIL KENSINGTON, London, England. Filed Apr. 30, 1928.

VITIZA

THE ELECTRO-ACTIVE FERTILIZER

The words "The Electro-Active Fertilizer" are disclaimed apart from the trade-mark as shown.
For Chemically-Prepared Fertilizer.
Claims use since December, 1926.

CLASS 11.

Inks and Inking Materials.

Ser. No. 265,322. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Apr. 24, 1928.

DU PONT

DUOL RED

The word "Red" is disclaimed apart from the mark shown in the drawing. Applicant is the registered proprietor of 20 U. S. certificates of registration embodying the name "Du Pont"—57,420, Class 9, used since 1802, 10-year proviso; 133,238, Class 9, used since 1909; 143,593, Class 6, used since 1918; 152,156, Class 6, used since 1914; 153,155, Class 1, used since 1920; 161,936, Class 5, used since 1920; 199,516, Class 16, used since 1917; 236,979, Class 39.
For Dry Colors for Shading Inks.
Claims use since Feb. 16, 1928.

CLASS 12.

Construction Materials.

Ser. No. 212,882. BATESVILLE WHITE LIME CO., Batesville, Ark. Filed Apr. 18, 1925.



For Hydrated and Structural Lime.
Claims use since Jan. 1, 1904.

Ser. No. 229,699. THE PARAFFINE COMPANIES, INC., San Francisco, Calif. Filed Apr. 5, 1926.

HYDROSEAL

For Plastic Cement in Which Asbestos Fiber is Incorporated.
Claims use since 1910.

Ser. No. 252,271. NATIONAL VARNISH COMPANY'S CHEMICAL DIVISION, INC., Long Island City, N. Y. Filed July 19, 1927.



For Cement Paste Colors, Integral Cement Hardening and Waterproofing Liquid; Transparent Dampproofing and Crystal Hardeners; a Crystallike Chemical Which When Dissolved in Water and Applied to the Surface of Cement Floors Hardens and Forms a Surface so Hard That it Becomes Dustproof and Wearproof.
Claims use since on or about July 1, 1927.

Ser. No. 257,112. THE NATIONAL LIME & STONE COMPANY, Findlay, Ohio. Filed Nov. 5, 1927.

NATIONAL

For Lime Plaster.
Claims use since about September, 1927.

Ser. No. 265,161. MAYFLOWER STUCCO COMPANY, Plymouth Meeting, Pa. Filed Apr. 20, 1928.



No claim is made to the word "Stucco" except in the combination shown. The large circle immediately in back of and inclosing the vessel is in red.
For Dry Stucco.
Claims use since Jan. 27, 1928.

Ser. No. 265,269. GENERAL MATERIAL COMPANY, St. Louis, Mo. Filed Apr. 23, 1928.

REDDMIX

The lining for color indicates red. No claim is made to the exclusive use of "Mix" apart from the mark shown.
For Ready-Mixed Concrete.
Claims use since Mar. 20, 1928.

Ser. No. 265,854. THE C. PARDEE WORKS, Perth Amboy, N. J., and Philadelphia, Pa. Filed May 3, 1928.

SATINVITS

For Tile.
Claims use since Apr. 12, 1928.

Ser. No. 265,864. THE VICTOR PARTING BEAD CO., INC., Reading, Pa. Filed May 3, 1928.

VICTOR

For Weather Strips.
Claims use since 1921.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 263,689. CHARLES H. CHAMBERLAIN, Trenton, N. J. Filed Mar. 24, 1928.

CHINA SETUROWN FIXTURES

"China Fixtures" are disclaimed apart from the mark as shown.
For China Bathroom Fixtures—Namely, Towel Bars, Soap Holders, Tumbler Holders, Paper Holders, Towel-Bar Holders, and Grab-Rail Soap Holders.
Claims use since Jan. 27, 1928.

Ser. No. 265,998. VIRGINIA METAL MANUFACTURING CO., Roanoke, Va. Filed May 5, 1928.

VIMCO

For Metal Culvert Pipe.
Claims use since Mar. 12, 1928.

Ser. No. 266,204. KOKOMO STEEL & WIRE CO., Kokomo, Ind. Filed May 10, 1928.



The representation of a fence joint and the words "This knot won't slip" are disclaimed apart from the mark shown.
For Wire Fencing.
Claims use since on or about Mar. 1, 1926.

Ser. No. 266,548. MASTER METAL PRODUCTS INC., Buffalo, N. Y. Filed May 17, 1928.

SANETTE

For Sink Strainers.
Claims use since May 3, 1927.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 264,500. NOVO ENGINE COMPANY, Lansing, Mich. Filed Apr. 7, 1928.

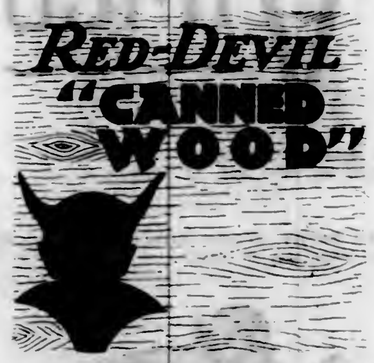
NOVITE

For Semisteel Alloy Metal.
Claims use since Feb. 15, 1928.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 263,316. HARRY L. GREENBAUM, doing business as Technical Color and Chemical Works, New York, N. Y. Filed Mar. 17, 1928.



No rights are claimed for the words "Canned Wood."
For Plastic Material Similar to Putty Which Hardens on Exposure to Air, Giving a Surface and Body Just like Wood.
Claims use since Jan. 6, 1927.

Ser. No. 263,570. GÜNTHER WAGNER, Hanover, Germany. Filed Mar. 21, 1928.

EILIDO

For Artists' Water Colors in Hard Cakes, Semimoist in Pans, Liquid in Jars, Glasses, or Bottles, and Moist in Tubes, and Artists' Oil Colors in Tubes.
Claims use since 1910.

Ser. No. 264,923. SUPERIA LABORATORIES, INC., Chicago, Ill. Filed Apr. 16, 1928.



For Polish or Gloss for Cleaning and Polishing Automobile Bodies and the Like.
Claims use since Feb. 28, 1928.

Ser. No. 265,100. FRAZER PAINT COMPANY, Detroit, Mich. Filed Apr. 19, 1928.

SEALOID

For Ready-Mixed Paints, Paste Paints, and Paint Enamels.
Claims use since Mar. 1, 1926.

Ser. No. 265,323. E. I. DUPONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Apr. 24, 1928.

DU PONT

DUOL RED

The word "Red" is disclaimed apart from the mark shown. Applicant sets up ownership of registration No. 199,516, No. 204,397, and No. 204,399, all covering the words "Du Pont."
For Dry Colors for Shading Paints.
Claims use since Feb. 16, 1928.

Ser. No. 265,641. GEORGE E. GROSSMAN, doing business as G-G Products Company, Cleveland Heights, Ohio. Filed Apr. 30, 1928.

'MINUTE' MAN'S



For Polishing Compound for Automobiles, Furniture, Woodwork, and Painted and Varnished Surfaces.
Claims use since about Mar. 20, 1928.

Ser. No. 266,554. THE OHIO VARNISH COMPANY, Cleveland, Ohio. Filed May 17, 1928.

MAK-LITE

For Interior Paint.
Claims use since Apr. 1, 1928.

Ser. No. 266,797. FRANK W. DUNNE CO., Oakland, Calif. Filed May 22, 1928.

DUNQUICK

For Prepared Enamel Paint.
Claims use since Jan. 4, 1928.

Ser. No. 266,798. FRANK W. DUNNE CO., Oakland, Calif. Filed May 22, 1928.

DUNSEAL

For Varnish.
Claims use since Apr. 3, 1927.

Ser. No. 266,800. FRANK W. DUNNE CO., Oakland, Calif. Filed May 22, 1928.

DUNSPAR

For Varnish.
Claims use since Feb. 15, 1926.

Ser. No. 266,802. FRANK W. DUNNE CO., Oakland, Calif. Filed May 22, 1928.

DUNAMEL

For Prepared Enamel Paint.
Claims use since Nov. 6, 1924.

CLASS 17.

Tobacco Products.

Ser. No. 262,897. CIFUENTES, PEGO Y COMPANIA, Habana, Cuba. Filed Mar. 10, 1928.



The drawing is lined for the colors gold and green. The words "Fabrica de Tabacos de Habana" are disclaimed apart from the mark shown in the drawing.
For Cigars, Cigarettes, and Cut Tobacco.
Claims use since about Jan. 1, 1926.

Ser. No. 266,302. JAMES H. CRANEY, doing business as George F. Madden & Co., Norwich, Conn. Filed May 12, 1928.



For Cigars.
Claims use since Jan. 2, 1903.

Ser. No. 266,884. CHARLES RICHTER, doing business as J. M. Anthony & Co., Providence, R. I. Filed May 23, 1928. Under 10-year proviso.

J.M.ANTHONY & CO.



For Cigars.
Claims use since 1884.

Ser. No. 267,201. MINERVA CIGAR CORPORATION, INC., New York, N. Y. Filed May 29, 1928.



For Cigars.
Claims use since Nov. 30, 1912.

Ser. No. 267,206. PHILIPPINE TOBACCO CO., INC., New York, N. Y. Filed May 29, 1928.

LA FRANCES

For Cigars.
Claims use since Dec. 31, 1912.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 264,003. AMERICAN CAR AND FOUNDRY MOTORS COMPANY, New York, N. Y. Filed Mar. 30, 1928.

acf

For Motor Vehicles—Namely, Launches, Trucks, Busses, Automobiles, Motor-Vehicle Radiators.
Claims use since Sept. 11, 1926.

Ser. No. 264,349. BUFFALO COMMERCIAL BODY CO. INC., Buffalo, N. Y. Filed Apr. 5, 1928.



No claim is made to the representation of a drop-frame, the red color shown on said representation, nor the words "Drop Frame" apart from the mark shown in the drawing.
For Automobiles.
Claims use since Nov. 23, 1927.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 251,081. PIGGLY WIGGLY CORPORATION, Memphis, Tenn. Filed June 24, 1927.

PIGGLY WIGGLY

For Coaster Wagons and Scooters.
Claims use since August, 1924, for coaster wagons, and for scooters since February, 1926, and for a general line of merchandise consisting of groceries, provisions of all kinds, variety goods, and general merchandise since September, 1916.

Ser. No. 251,384. BRAUER BROS. INC., St. Louis, Mo. Filed July 1, 1927.



No claim is made to the word "Brand" apart from the mark shown in the drawing.
For Golf Bags, Golf-Bag Hoods, Tennis-Racket Covers, Fishing-Rod Cases, Fishing-Reel Cases, Fishing-Reel Bags, Cribbage Boards, Dice, Cups, and Golf Balls.
Claims use since 1898.

Ser. No. 265,515. BON-DEE GOLF BALL CO., Detroit, Mich. Filed Apr. 28, 1928.

Bon-Dee

For Golf Balls.
Claims use since Nov. 1, 1927.

Ser. No. 265,516. BON-DEE GOLF BALL CO., Detroit, Mich. Filed Apr. 28, 1928.

THRILL

For Golf Balls.
Claims use since Nov. 1, 1927.

Ser. No. 265,517. BON-DEE GOLF BALL CO., Detroit, Mich. Filed Apr. 28, 1928.

Trusty

For Golf Balls.
Claims use since Nov. 1, 1927.

Ser. No. 265,560. PEARL S. PRICE, Buffalo, N. Y. Filed Apr. 28, 1928.

MUSIKARDS

For Game Played with Cards Which Will Enable the Player to Learn to Play Music.
Claims use since Feb. 20, 1928.

Ser. No. 266,878. PARKER BROTHERS INC., Portland, Me., and Salem, Mass. Filed May 23, 1928.

CATS AND DOGS

For Game Played Upon a Board in Which Miniature Cats and Dogs are Moved About by the Players.
Claims use since May 15, 1928.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 218,078. THE OIL COUNTRY SPECIALTIES MFG. CO., Coffeyville, Kans. Filed July 29, 1925.



The trade-mark consists in coloring a distinctive part of each tool described with a band of red color, such part being the top thereof or a part analogous to the top. No claim is made for the representative of a driving head apart from the mark as shown and described. The lining shown in the drawing at the upper part of the drive head is to indicate color, the remaining lining to indicate shading.
For Drive Heads, Swabs, Wire-Line Splicing Needles, Tongs, Stuffing Boxes, Swivel Sockets, Swivels, and Sand Reels.
Claims use since Oct. 17, 1922.

Ser. No. 243,225. HARRY L. LOWE, Los Angeles, Calif. Filed Jan. 22, 1927.

"ADCO"

For Oil-Well Specialties Comprising Mud Flumes, Valves for Oil-Well Slush Pumps, Pistons, Pumps, Drill Bits, and Keys for Connecting Rods, Such as Used in Oil-Well Practice.
Claims use since Dec. 1, 1925.

Ser. No. 257,089. BAKER PERKINS COMPANY, INC., Saginaw, Mich. Filed Nov. 5, 1927.



The drawing is lined to indicate shading only.
For Flour-Handling Machinery, Including Sifters, Bolting Reels, Blenders, Conveyors, and Flour Elevators; Dough-Handling Machinery, Including Dough Dividers, Rounders, Mixers, Proofers, Moulders, Dough Reservoirs, Panning Machines; Macaroni Machinery, Noodle Cutters, Presses, Brakes; Bread-Handling Machinery, Including Coolers, Sorting Tables, Reduction Gears, Wafer Machines, Fruit Cleaners; Cake Depositors.
Claims use since August, 1925.

Ser. No. 260,543. OSCAR FREIHERR VON KOHORN ZU KORNEGG, doing business as Oscar Kohorn & Co., Vienna, Austria. Filed Jan. 23, 1928.



For Textile Machines.
Claims use since December, 1924.

Ser. No. 262,098. LITTLE RED WAGON MFG. CO., Omaha, Nebr. Filed Feb. 23, 1928.

"ALLEY RAT"

For Grading Machines and Parts Thereof Such as are Used for Removing Earth from Streets and Roadways.
Claims use since Jan. 5, 1928.

Ser. No. 262,157. THE DENVER FIRE CLAY COMPANY, Denver, Colo. Filed Feb. 24, 1928.



For Air Blowers, Crushers for Rock Ore and the Like for Both Laboratory and Industrial Purposes, and Cupel Machines for Molding Cupels.
Claims use since October, 1918.

Ser. No. 262,159. THE DENVER FIRE CLAY COMPANY, Denver, Colo. Filed Feb. 24, 1928.

DFC

For Air Blowers, Crushers for Rock Ore and the Like for Both Laboratory and Industrial Purposes, and Cupel Machines for Molding Cupels.
Claims use since October, 1918.

Ser. No. 262,547. BONNEY FORGE & TOOL WORKS, Allentown, Pa. Filed Mar. 3, 1928.



The words "Chrome Vanadium Wrenches" appearing upon the drawing are disclaimed apart from the mark shown. The drawing is lined for color in the manner following: The solid blocks designate the color black, certain of the blocks are lined to indicate the color orange, and the remaining blocks are lined to indicate the colors orange and black.
For Wrenches and Socket-Wrench Sets.
Claims use since November, 1924.

Ser. No. 262,847. HUGO HERKENRATH, Merscheid, Germany. Filed Mar. 9, 1928.



For Table Knives and Forks of Base Metal, Pocketknives, Kitchen Knives, Industrial and Artisans' Knives, Tongs, Chisels, Plane Irons, Saws, Files, Axes, Scythes, Sickles, Sabres, and Daggers.
Claims use since Sept. 2, 1927.

Ser. No. 264,545. TYBON CORPORATION, Camden, N. J. Filed Apr. 7, 1928.

TYBON
TRADE
MARK
RIBBONER

Applicant disclaims the words "Trade-Mark" appearing upon the drawing, which words form no part of its mark.
For Mechanical Devices for Rewinding Ribbons.
Claims use since latter part of January, 1928.

Ser. No. 264,860. ARMSTRONG BROS. TOOL CO., Chicago, Ill. Filed Apr. 16, 1928.



No claim is made to the word "Strong" apart from the mark shown.
For Pipe-Cutting-Off and Pipe-Threading Tools, Pipe Wrenches, Pipe Tongs, Pipe Vises, and Pipe Stocks and Dies.
Claims use since June, 1892, on pipe cutting-off and threading tools; since May, 1911, on pipe wrenches; since July, 1919, on pipe tongs; and since October, 1922, on pipe vises, dies, and stocks.

Ser. No. 265,676. NATIONAL MACHINE TOOL COMPANY, Racine, Wis. Filed Apr. 30, 1928.

"HANDNIB"

For Metal Shears.
Claims use since Jan. 1, 1928.

Ser. No. 266,413. CHARLES D. AMMON, doing business as The Easy Manufacturing Co., Lincoln, Nebr. Filed May 15, 1928.

The Easy

For Implements for Pushing Pipes Through the Ground Known as Pipe Pushers, Windmills and Repair and Replacement Parts Thereof, Garden-Cultivating Implements Known as Garden Raisers, and Feed Grinders.
Claims use since early in 1913, on pipe pusher; since October, 1923, on windmill and parts thereof; since October, 1926, on garden cultivator; and early in July, 1927, on grinder.

Ser. No. 266,731. J. A. HENCKELS, INC., New York, N. Y. Filed May 21, 1928.

100%

For Scissors, Shears, and Razors.
Claims use since April, 1926.

Ser. No. 267,171. LESTER WHITCUP, New York, N. Y. Filed May 28, 1928.

PEARL

For Safety-Razor Blades.
Claims use since Oct. 15, 1927.

CLASS 24.

Laundry Appliances and Machines.

Ser. No. 265,643. HANDI-APPLIANCE CORPORATION, Buffalo, N. Y. Filed Apr. 30, 1928.



No claim is made for any of the words except "Handi" apart from the mark as shown.
For Laundry Washing Machines.
Claims use since Mar. 14, 1928.

CLASS 25.

Locks and Safes.

Ser. No. 265,086. THE BASSETT METAL GOODS COMPANY, INC., Shelton, Conn. Filed Apr. 19, 1928.

KEYIN

For Locks.
Claims use since Mar. 30, 1928.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 262,043. TAYLOR MANUFACTURING CORPORATION, Los Angeles, Calif. Filed Mar. 19, 1928.

TAYLOR

ROAD BRAKE TEST INDICATOR

The words "Road Test Brake Indicator" are disclaimed apart from the mark as shown in the drawing.
For Brake-Testing Machines.
Claims use since Jan. 12, 1928.

Ser. No. 262,160. THE DENVER FIRE CLAY COMPANY, Denver, Colo. Filed Feb. 24, 1928.

DFC

For Sleves of Metal and Wire Cloth for Testing and Laboratory Use, Graphite Crucibles (Melting Type), and Assay Clay Goods, Particularly Annealing Cups, Assay Crucibles and Covers Therefor, Mufflers, Roasting Dishes, and Scorifiers.
Claims use since October, 1918.

Ser. No. 263,840. TITMUS OPTICAL COMPANY, INC., Petersburg, Va. Filed Mar. 27, 1928.

VELVET-LITE

For Optical Lenses.
Claims use since April, 1927.

Ser. No. 264,296. THE GOLF SCORE WATCH COMPANY, INCORPORATED, Los Angeles, Calif. Filed Apr. 4, 1928.



The drawing is lined to indicate the colors black and gold.
For Score-Registering Device for Golf Consisting of a Watchlike Body Having a Dial on the Face of Which There are 18 Smaller Dials Corresponding to the 18 Holes of a Golf Course. By Pressing a Stem Thereon a Record is Made of the Number of Strokes for Each Hole, so That at the Completion of the Game the Dial of the Device will Indicate the Number of Strokes for Each Particular Hole.
Claims use since Nov. 8, 1927.

Ser. No. 266,921. FIRST NATIONAL PICTURES, INC., New York, N. Y. Filed May 24, 1928.

Firnatone

For Motion-Picture Films, Motion-Picture Films for Use in Connection with Synchronized Apparatus for Simultaneously Reproducing Coordinated Light and Sound Effect.
Claims use since May 15, 1928.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 229,160. CLEAVES MANUFACTURING CO., Woonsocket, R. I. Filed Mar. 25, 1926.

C.M.C.

For Brushes—Namely, Polishing Brushes for Silverware and Other Metal Articles, Both Straight and of Circular Shape, Refills for Such Brushes, Brushes with Handles for General Sweeping Purposes, Floor Brooms, Dusters and Refills for the Same, Wire Buffing Brushes, and Refills for Wire Buffing Brushes.
Claims use since Jan. 1, 1926.

Ser. No. 266,248. THE JANSZEN COMPANY, Cincinnati, Ohio. Filed May 11, 1928.

DOT

For Brooms.
Claims use since Jun. 12, 1928.

CLASS 31.

Filters and Refrigerators.

Ser. No. 263,040. HANFORD PRODUCE COMPANY, Sioux City, Iowa. Filed Mar. 12, 1928.

POLAR WAVE

For Electric Refrigerators.
Claims use since Feb. 21, 1928.

Ser. No. 265,511. WILLIAMS OIL-O-MATIC HEATING CORPORATION, Bloomington, Ill. Filed Apr. 27, 1928.

ICE-O-MATIC

For Domestic Refrigerating Machines.
Claims use since on or about Feb. 6, 1928.

Ser. No. 265,987. SERVEL, INC., New York, N. Y. Filed May 5, 1928.



The lining on the drawing represents the color green.
For Refrigerators, Refrigerator Parts, Automatic Refrigerators, Automatic Refrigerating Parts, and Refrigerating Systems.
Claims use since about Apr. 1, 1928.

CLASS 32.

Furniture and Upholstery.

Ser. No. 264,526. THE MAJESTIC CO., Huntington, Ind. Filed Apr. 7, 1928.

VARSITY

For Desks, Chairs for Household or Office Use, and Book Ends.
Claims use since Feb. 1, 1928.

Ser. No. 264,758. THE KANSAS CITY FURNITURE MANUFACTURING CO., North Kansas City, Mo. Filed Apr. 13, 1928.

SUPER CRAFT

For Upholstered Furniture Including Davenports, Club Chairs, Wing or Fireside Chairs, Fireside Benches, Stools and Ottomans, Coxwell Chairs, Love Seats, and Occasion Chairs.
Claims use since 1923.

Ser. No. 265,934. SPLITDORF RADIO CORPORATION, Newark, N. J. Filed May 4, 1928.

ABBEY

For Radiocabinets, Loud-Speaker Cabinets All Devoid of Radio or Phonographic Apparatus, Phonograph Cabinets, Stands, and Tables.
Claims use since May 20, 1927.

Ser. No. 266,983. CHAS. EMMERICH AND CO., Chicago, Ill. Filed May 25, 1928.

Land O'Nod

For Pillows.
Claims use since about Jan. 1, 1926.

CLASS 33.

Glassware.

Ser. No. 267,228. BLUE RIDGE GLASS CORPORATION, Kingsport, Tenn. Filed May 31, 1928.

DIFFUSEX

For Glass.
Claims use since Sept. 22, 1927.

Ser. No. 267,229. BLUE RIDGE GLASS CORPORATION, Kingsport, Tenn. Filed May 31, 1928.

PEBBLEX

For Glass.
Claims use since Oct. 25, 1927.

Ser. No. 267,230. BLUE RIDGE GLASS CORPORATION, Kingsport, Tenn. Filed May 31, 1928.

FLOREX

For Glass.
Claims use since Oct. 4, 1927.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 233,497. LUCAS HEATING SYSTEMS, INC., Chicago, Ill. Filed June 19, 1926.

INVADER

For Warm-Air Furnaces.
Claims use since November, 1923.

Ser. No. 264,284. FRED BUTTERFIELD & CO., INC., New York, N. Y. Filed Apr. 4, 1928.

LIGHT O' DAY

For Oil, Gas, Vapor, and Calcium Lamps and Parts Thereof; Paper, Parchment, and Fabric Lamp Shades and Parts Thereof; and Gas Mantles.
Claims use since Jan. 16, 1928.

Ser. No. 264,592. LINZ VENTILATOR COMPANY, Pittsburgh, Pa. Filed Apr. 9, 1928.

LINZO

For Sash Ventilators.
Claims use since July 5, 1927.

Ser. No. 266,167. M. E. BERNHARDT COMPANY, INC., New York, N. Y. Filed May 9, 1928.

BLUE STAR

For Pocket Friction Cigar Lighters.
Claims use since Apr. 23, 1928.

CLASS 37.

Paper and Stationery.

Ser. No. 248,206. DONALD THORP, Rutherford, N. J. Filed Apr. 29, 1927.

LUCY'S LON-DREE LIST

The words "Lon-Dree List" are disclaimed apart from the mark as shown.
For Partially-Printed Laundry Lists.
Claims use since on or about Apr. 25, 1927.

Ser. No. 261,609. DANIELS MANUFACTURING COMPANY, Rhinelander, Wis. Filed Feb. 13, 1928.

DAN-D-FOLD

Applicant disclaims the word "Fold" as a trade-mark separate and apart from the combination as shown.
For Paper Napkins.
Claims use since Jan. 14, 1928.

Ser. No. 263,254. BROWN COMPANY, Portland, Me., and Berlin, N. H. Filed Mar. 16, 1928.

NIBROC WEB

No claim is made to the word "Web" apart from the mark as shown.
For Paper Suitable for Use in Making Artificial Leather.
Claims use since on or about Feb. 15, 1928.

Ser. No. 265,424. THE BUTTERFIELD-BARRY COMPANY, New York, N. Y. Filed Apr. 26, 1928.

ROYAL SATIN

For Paperboard Used for Boxes, Posters, and Advertising Novelties.
Claims use since about July 1, 1927.

Ser. No. 265,857. THE RYTEX COMPANY, Indianapolis, Ind. Filed May 3, 1928.

The PRESIDENT
The PERSONAL STATIONERY FOR MEN and WOMEN

The words "The Personal Stationery for Men and Women" shown in the drawing are not a part thereof and are not sought to be registered.
For Writing Paper and Envelopes.
Claims use since Apr. 10, 1927.

Ser. No. 266,417. CROWN WILLAMETTE PAPER COMPANY, San Francisco, Calif. Filed May 15, 1928.

COMMANDER



For Paper Towels.
Claims use since January, 1928.

Ser. No. 266,418. CROWN WILLAMETTE PAPER COMPANY, San Francisco, Calif. Filed May 15, 1928.

CROWN



For Paper Towels.
Claims use since January, 1928.

372 O. G.—19

CLASS 38.

Prints and Publications.

Ser. No. 194,407. NATIONAL PROCESS COMPANY, INC., New York, N. Y. Filed Mar. 25, 1924.

GIANT LETTERS

The term "Letters" is disclaimed as an essential part of the trade-mark except in the particular form and relation shown in the drawing.
For Posters or Form Letters and Advertising Literature Sold to the Trade as Such.
Claims use since June 28, 1923.

Ser. No. 264,141. JABEZ BURNS & SONS, INC., New York, N. Y. Filed Apr. 2, 1928.

Well, What's New?

For House Organ Published Periodically or From Time to Time.
Claims use since Feb. 2, 1926.

Ser. No. 265,150. THE ELECTRICAL LEAGUE OF CLEVELAND, INC., Cleveland, Ohio. Filed Apr. 20, 1928.

Electrical PRODUCTION Magazine

For Monthly Publication.
Claims use since Feb. 1, 1927.

Ser. No. 265,566. THE REVIEW OF REVIEWS CORPORATION, New York, N. Y. Filed Apr. 28, 1928.



For Section or Department of a Monthly Magazine.
Claims use since on or about Feb. 24, 1928.

Ser. No. 265,799. MACFADDEN PUBLICATIONS INCORPORATED, New York, N. Y. Filed May 2, 1928.

Your BROADWAY And Mine

For Title of a Column in Daily Newspaper—to wit, The New York Evening Graphic.
Claims use since Sept. 20, 1924.

CLASS 39.

Clothing.

Ser. No. 254,442. FLORENCE M. AUSPITZ, doing business as The Corset Shop, York, Pa. Filed Sept. 7, 1927.

"REPUTATION"

For Hosiery, Corsets, Brassières, and Girdles.
Claims use since Aug. 5, 1927.

Ser. No. 258,812. HARMONY DRESS CO., INC., New York, N. Y. Filed Dec. 12, 1927.

MELODY FROCKS

Tailored in the HARMONY Manner

No claim is made for the exclusive use of the words "Frocks" and "Tailored in the Manner" apart from the mark as shown.
For Frocks and Dresses for Use of Misses.
Claims use since Oct. 3, 1927.

Ser. No. 260,285. JACOB MILLER'S SONS CO., Philadelphia, Pa. Filed Jan. 18, 1928.

MINDORA MADRAS

No claim is made to the word "Madras" aside from the mark shown in the drawing.
For Men's Dress and Negligee Shirts.
Claims use since Sept. 20, 1920.

Ser. No. 260,743. EMANUEL MOSKOWITZ, New York, N. Y. Filed Jan. 27, 1928.

Coquette FROCKS

Exclusive right to the use of the word "Frocks" apart from the mark as shown is disclaimed.
For Ladies' Frocks.
Claims use since Nov. 15, 1927.

Ser. No. 260,855. SMITH, KIRKPATRICK & CO., INC., New York, N. Y. Filed Jan 28, 1928.



VIRGINIA

THE ARISTOCRAT of HOSIERY

The word "Virginia" and "The Aristocrat of Hosiery" are disclaimed apart from the mark shown.
For Ladies' Hosiery.
Claims use since Oct. 14, 1927.

Ser. No. 262,773. SEMINOLE MANUFACTURING CO., McAlester, Okla. Filed Mar. 7, 1928.

"SEMINOLE"

For Men's and Boys' Work Pants, Dress Pants, Overalls, Overall Jackets, Work Shirts, Riding Pants and Coats.
Claims use since January, 1925.

Ser. No. 263,014. REGENT PARK CLOTHES, INC., Chicago, Ill. Filed Mar. 12, 1928.

Regent Park CLOTHES

The word "Clothes" is disclaimed apart from the mark as shown on the drawing.
For Ladies' and Men's Wearing Apparel, Being That of Suits and Overcoats.
Claims use since Mar. 8, 1928.

Ser. No. 263,660. THE HUB HENRY C. LYTTON & SONS, Chicago, Ill. Filed Mar. 23, 1928.

Cama-Llama

The word "Llama" is disclaimed per se as constituting the trade-mark.
For Men's and Boys' Ready-to-Wear Coats, Vests, Trousers, and Overcoats.
Claims use since Jan. 25, 1928.

Ser. No. 263,761. HAHNE & COMPANY, Newark, N. J. Filed Mar. 26, 1928.

Bob Treat

The name "Bob Treat" is an abbreviation of the name "Robert Treat," who was a famous character in colonial history and was especially identified with the colonial settlement at Newark, N. J.
For Men's and Boys' Suits, Coats, Trousers, Vests, and Knickerbockers.
Claims use since on or about April, 1927.

Ser. No. 263,851. MOE BRENNER, New York, N. Y. Filed Mar. 28, 1928.

MELIOR

The lining on the drawing is for the purpose of shading only, no claim being made to the color blue.
For Ladies' Hats.
Claims use since Mar. 1, 1927.

Ser. No. 264,067. CARTER & CHURCHILL CO., Lebanon, N. H. Filed Mar. 30, 1928.

CARNIVAL COAT

Applicant disclaims exclusive use of the word "Coat" apart from the mark as shown in the drawing.
For Men's and Boys' Coats, Women's and Girls' Coats.
Claims use since Dec. 28, 1927.

Ser. No. 264,762. M. S. LEVY & SONS, INC., Baltimore, Md., and New York, N. Y. Filed Apr. 13, 1928.

NUFLEX

For Straw Hats for the Use of Men.
Claims use since Apr. 10, 1928.

Ser. No. 264,972. ELY & WALKER DRY GOODS CO., St. Louis, Mo. Filed Apr. 17, 1928.

BLINGER

For Boys' Dress, Negligee, and Work Shirts, Blouses, Play Suits, Trousers, Coats, Sport Coats, Jackets, Bath-Robes, and Beach Coats Made of Knitted or Woven Textile Fabrics.
Claims use since Mar. 1, 1928.

Ser. No. 265,066. PILLER BROS. & HERSCHEL, INC., New York, N. Y. Filed Apr. 18, 1928.

CREPE Savonette

No claim is made to the exclusive use of the word "Crepe" apart from the mark as shown in drawing.
For Women's and Misses' Dresses Made of Silk, Silk and Cotton Mixture, and Cotton.
Claims use since Feb. 1, 1928.

Ser. No. 265,158. ISADOR KRONTHAL, doing business as Kronthal Manufacturing Company, Chicago, Ill. Filed Apr. 20, 1928.

Marjorie Dianne KM CO. Hats

Applicant disclaims the exclusive use of the word "Hats" appearing in the drawing separate and apart from the combination shown.
For Children's and Misses' Hats.
Claims use since Mar. 15, 1927.

Ser. No. 265,219. LEWIS-WISE CO. INC., New York, N. Y. Filed Apr. 21, 1928.

BATHCLADD

For Men's and Boys' Robes, Dressing Gowns, Lounge Suits, Smoking Jackets, and Beach Coats.
Claims use since Mar. 29, 1928.

Ser. No. 265,220. LEWIS-WISE CO. INC., New York, N. Y. Filed Apr. 21, 1928.

CAMP CLADD

For Men's and Boys' Robes, Dressing Gowns, Lounge Suits, Smoking Jackets, and Beach Coats.
Claims use since Mar. 29, 1928.

Ser. No. 265,221. LEWIS-WISE CO. INC., New York, N. Y. Filed Apr. 21, 1928.

LITECLADD

For Men's and Boys' Robes, Dressing Gowns, Lounge Suits, Smoking Jackets, and Beach Coats.
Claims use since Feb. 6, 1928.

Ser. No. 265,245. THE WALL-KELLER-MCKEE COMPANY, North Adams, Mass. Filed Apr. 21, 1928.



For Mufflers and Men's Neckties.
Claims use since Aug. 10, 1927.

Ser. No. 265,319. CARTER DRY GOODS CO., Louisville, Ky. Filed Apr. 24, 1928.

CIRCLE-C

For Hosiery.
Claims use since Mar. 16, 1928.

Ser. No. 265,349. TRIPPE, BARKER & CO., New York, N. Y. Filed Apr. 24, 1928.

CHARMEUSETTE

For Dresses for Women and Children.
Claims use since June 4, 1926.

Ser. No. 265,365. COHEN, GOLDMAN & CO. INC., New York, N. Y. Filed Apr. 25, 1928.



Applicant disclaims the words "Domus Specialitans" (meaning House of Specialties) separate and apart as shown in the drawing.
For Men's, Boys', and Children's Outer Garments Consisting of Coats, Vests, Pants, Overcoats, Raincoats, Dusters, Mackinaws, Ulsters, Smoking Jackets, Automobile Coats, Bath Wraps, and Women's and Children's Outer Garments Consisting of Coats, Bath Wraps, Mackinaws, and Knickers.
Claims use since Mar. 1, 1926.

Ser. No. 265,384. J. JACOBY CO., Los Angeles, Calif. Filed Apr. 25, 1928.



For Men's, Boys', and Children's Knitted Underwear, Hosiery, and Cut and Sewed Underwear.
Claims use since Jan. 27, 1928.

Ser. No. 265,406. MORRIS I. RIVKIN, doing business as West Point Knitwear Mills, Philadelphia, Pa. Filed Apr. 25, 1928.

American Girl

For Knitted Swimming Suits, Bathing Suits, and Sweaters.
Claims use since on or about Apr. 16, 1928.

Ser. No. 265,410. ROTHSCHILD & SONS, INCORPORATED, Kansas City, Mo. Filed Apr. 25, 1928.

JAX-SON

For Pajamas and Underwear of Knitted and Textile Fabrics for Use by Men, Women, and Children.
Claims use since February, 1921.

Ser. No. 265,426. MAX DUNN, doing business as M. Dunn & Co., Philadelphia, Pa. Filed Apr. 26, 1928.

The Dignity FROCK

No claim is made to the word "Frock" apart from the mark shown.
For Wash Frocks for Women, Misses, and Children.
Claims use since Feb. 1, 1928.

Ser. No. 265,451. ROSE BROS., New York, N. Y. Filed Apr. 26, 1928.



For Men's, Boys', and Young Men's Topcoats, Overcoats, Sport Coats, and Suits Consisting of Coats, Vests, Pants, and Knickerbockers.
Claims use since Apr. 1, 1928.

Ser. No. 265,454. J. SCHOENEMAN, INCORPORATED, Baltimore, Md. Filed Apr. 26, 1928.

ELKRIDGE

For Coats, Vests, Trousers, Knickerbockers, Topcoats, and Overcoats for Men, Youths, and Boys.
Claims use since Apr. 10, 1927.

Ser. No. 265,482. LARGMAN, GRAY COMPANY, Croydon, Pa., and New York, N. Y. Filed Apr. 27, 1928.



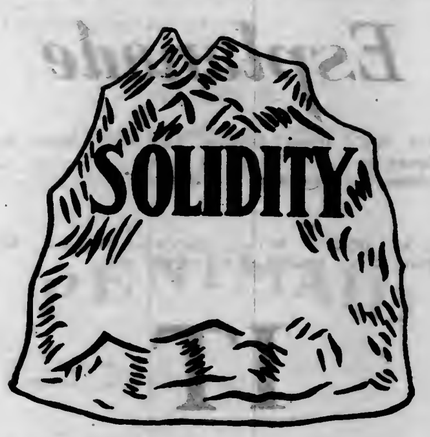
For Ladies', Misses', and Children's Hosiery.
Claims use since May 5, 1925.

Ser. No. 265,546. THE HOSIERY MILLS CO., Chicago, Ill. Filed Apr. 28, 1928.

Pronto

For Men's, Children's, and Ladies' Hosiery.
Claims use since Oct. 1, 1927.

Ser. No. 265,569. B. ROSENBERG & SONS, INC., New Orleans, La. Filed Apr. 28, 1928.



For Leather Boots and Shoes.
Claims use since Feb. 1, 1926.

Ser. No. 265,585. STYLER SHOE CO., INC., Lynn, Mass. Filed Apr. 28, 1928.

STYLER
ARCH FITTER
SHOES
COMBINATION LAST

The words "Arch Fitter Shoes Combination Last" are disclaimed apart from the trade-mark shown.
For Women's Welt Leather Shoes.
Claims use since Apr. 9, 1928.

Ser. No. 265,625. AUGUSTE DELUBAC, Vals-les-Bains, France. Filed Apr. 30, 1928.

"BIKRI"

For Clothes for Airmen—Namely, Covercoats, Waistcoats, Coats, Pants.
Claims use since Mar. 1, 1928.

Ser. No. 265,645. CHARLES HOFFMAN, New York, N. Y. Filed Apr. 30, 1928.

"LITTLE MISS TWELVE"

For Ladies' and Misses' Dresses.
Claims use since Mar. 23, 1928.

Ser. No. 265,703. W. M. STEPPACHER & BRO., INC., Philadelphia, Pa. Filed Apr. 30, 1928.

Esplanade

For Men's Dress, Negligee, and Work Shirts and Pajamas.
Claims use since Apr. 1, 1928.

Ser. No. 265,710. WILMUR NECKWEAR CO., INC., New York, N. Y. Filed Apr. 30, 1928.

IT

For Neckties.
Claims use since Aug. 26, 1927.

Ser. No. 265,738. PHILLIPS-JONES CORPORATION, New York, N. Y. Filed May 1, 1928.

Collarite

For Men's Collars and Dress and Negligee Shirts.
Claims use since June 14, 1927.

Ser. No. 265,802. OPPENHEIM, COLLINS & CO., INC., Wilmington, Del.; New York, Brooklyn, and Buffalo, N. Y.; Newark, N. J.; Philadelphia and Pittsburgh, Pa.; and Cleveland, Ohio. Filed May 2, 1928.

Roselle

For Women's, Misses', and Children's Shoes of Leather or Fabric or of Leather and Fabric.
Claims use since Apr. 1, 1927.

Ser. No. 265,826. ISIDORE BEILEY, doing business as I. Beiley & Co., New York, N. Y. Filed May 3, 1928.



For Women's Knitted Underwear.
Claims use since Feb. 1, 1928.

Ser. No. 265,861. SHIREK & HIRSCH, New York, N. Y. Filed May 3, 1928.

Pride of the Desert



THE IDEAL

For Men's and Young Men's Coats, Vests, Trousers, Topcoats, and Overcoats.
Claims use since Apr. 12, 1928.

Ser. No. 265,891. COMBINE HOSIERY CORPORATION, Wilmington, Del., and New York, N. Y. Filed May 4, 1928.



For Hosiery.
Claims use since Jan. 3, 1927.

Ser. No. 265,949. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed May 5, 1928.

CHIFONESE

For Women's and Children's Dresses and Frocks.
Claims use since May 3, 1928.

Ser. No. 265,993. THE STYLE DRESS CO., INC., New York, N. Y. Filed May 5, 1928.

THE BUBBLE PRINT

Applicant disclaims the use of the word "Print" apart from the mark shown in the drawing.
For Women's and Misses' Dresses.
Claims use since Feb. 1, 1928.

Ser. No. 266,004. WOODBURY SHOE MFG. CO., Derry, N. H. Filed May 5, 1928.

ANNA MATION

For Men's, Women's, and Children's Boots, Shoes, and Slippers Made Wholly or in Part of Leather, Rubber, Canvas, or Textile Material.
Claims use since Apr. 16, 1928.

Ser. No. 266,006. WOODBURY SHOE MFG. CO., Derry, N. H. Filed May 5, 1928.

Locked Arch

For Men's, Women's, and Children's Boots, Shoes, and Slippers Made Wholly or in Part of Leather, Rubber, Canvas, or Textile Material.
Claims use since Feb. 15, 1928.

Ser. No. 266,011. AMERICAN TEXTILES, INC., Bay City, Mich. Filed May 7, 1928.

SNOWBIRD

For Knitted and Textile Underwear and Hosiery for Men, Women, and Children.
Claims use since Apr. 2, 1928.

Ser. No. 266,066. WAYNE KNITTING MILLS, Fort Wayne, Ind. Filed May 7, 1928.

SLENDERETTE

For Hosiery.
Claims use since May 1, 1927.

CLASS 40.

Fancy Goods, Furnishings, and Notions.

Ser. No. 251,900. GREENHILL AND SONS, LTD., London, England. Filed July 12, 1927.

CRESTALLINE

For Buttons, Buckles, Fancy Bag Frames, Bag Rings in the Nature of Handles, Hatpins, Combs, Fans for Personal Use, and Loose Beads Not Made of Precious Metals.
Claims use since Aug. 24, 1923.

CLASS 41.

Canes, Parasols, and Umbrellas.

Ser. No. 264,906. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Apr. 16, 1928.

PENIMAID

For Umbrellas.
Claims use since Feb. 1, 1927.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 260,384. A. S. HERRMANN, INC., New York, N. Y. Filed Jan. 20, 1928.



No claim is made to the word "Linens."
For Textiles of Linen—Namely, Tablecloths, Sheets, Pillowcases, Napkins, Luncheon Sets, Doilies, Scarfs, Card-Table Sets, Bedspreads, Bolster Cases, Bolster Shams, Breakfast Sets, Tea Sets, Dinner Sets, and Towels.
Claims use since June, 1927.

Ser. No. 262,784. WOODWARD, BALDWIN & CO., New York, N. Y. Filed Mar. 7, 1928.



No claim is made to the words "Reversible, Coverlet," or "Homespun Finish" except in connection with the mark as shown. The drawing is lined to indicate the color blue.

For Coverlets in Whole or in Part of Cotton.

Claims use since Jan. 12, 1928.

Ser. No. 263,600. FRIEDRICH ARNOLD, Greiz, Germany. Filed Mar. 22, 1928.



For Wool Dress Goods.

Claims use since 1885.

Ser. No. 265,932. ALBERT D. SMITH & CO., New York, N. Y. Filed May 4, 1928.

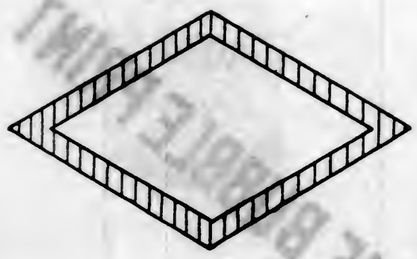
ALBERT STRIPED HOLLAND

No claim is made to the exclusive use of the words "Striped Holland" apart from the mark as shown in the drawing.

For Cotton Piece Goods and Shade Cloth.

Claims use since Mar. 7, 1928.

Ser. No. 266,171. RICHARD C. HYLAND, doing business as Hyland Bag Company, San Francisco, Calif. Filed May 9, 1928.



The drawing is lined for the color red.

For Burlap and Burlap Coverings for Bales of Bags of Such Material.

Claims use since Jan. 5, 1926.

Ser. No. 266,437. NATIONAL BELLAS HESS CO. INC., New York, N. Y. Filed May 15, 1928.

BATH KING

Applicant disclaims the word "Bath" apart from the mark shown in the drawing.

For Towels, Toweling, and Wash Cloths of Cotton Terry Cloth.

Claims use since about December, 1925.

Ser. No. 266,941. H. R. MALLINSON & CO. INC., New York, N. Y. Filed May 24, 1928.

Vagabond

For Silk, Silk and Rayon, and Silk and Wool Mixture Piece Goods.

Claims use since Apr. 5, 1926.

Ser. No. 266,970. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed May 25, 1928.

Ra-Ra-Koon

For Pile Fabrics in the Piece.

Claims use since Jan. 12, 1928.

Ser. No. 267,023. WILSON RAYON PRODUCTS CORPORATION, New York, N. Y. Filed May 25, 1928.

RAYON WILSON PRODUCTS

Applicant disclaims exclusive right to the use of the words "Rayon Products" except as the same are used in connection with the other features of the mark shown in the drawing.

For Rayon Fabrics in the Piece.

Claims use since Apr. 1, 1928.

Ser. No. 267,317. ARNOLD ROSENFELD SILK CORPORATION, New York, N. Y. Filed June 1, 1928.

PEBLOOM CREPE

No claim is made to the right to exclusive use of the word "Crepe" except in the association shown.

For Silk Piece Goods.

Claims use since May 8, 1928.

CLASS 43.

Thread and Yarn.

Ser. No. 267,294. BERNHARD ULMANN CO. INC., New York, N. Y. Filed June 1, 1928.

OMBRAYON

For Cotton, Artificial-Silk, and Worsted Yarns.

Claims use since May 17, 1928.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 260,843. ORAVOX LTD., London, England. Filed Jan. 28, 1928.

ORAVOX

For Telephonic Apparatus and Appliances and Accessories Thereto for the Aid of Deaf Persons.

Claims use since June 14, 1927.

Ser. No. 264,201. THE SCHOLL MFG. CO. INC., Chicago, Ill. Filed Apr. 2, 1928.

Durolite

For Arch Supports.

Claims use since Mar. 27, 1925.

Ser. No. 265,627. AUGUSTE DELUBAC, Vals-les-Bains, France. Filed Apr. 30, 1928.

"BIKRI"

For Medical Bandages, Bands, and Belts, Breast and Back Covers, Knee and Elbow Pieces.

Claims use since Mar. 1, 1928.

Ser. No. 265,739. CHARLES K. THAU, doing business as The Laura Hair Novelty Co., New York, N. Y. Filed May 1, 1928.

SUN-RAY

For Sanitary Napkins.

Claims use since Mar. 29, 1928.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 257,349. DAVIS & COMPANY, St. Louis, Mo. Filed Nov. 10, 1927.

Deco

For Nonalcoholic Cordials and Beverages Sold as Soft Drinks.

Claims use since Mar. 1, 1923.

Ser. No. 263,168. THE MIRROR, New York, N. Y. Filed Mar. 14, 1928.

MIRROR

For Soda Water, Ice-Cream Soda Water, Lemon Phosphate, Phosphates in Other Flavors, Lemonade, and the Same Beverage in Other Flavors.

Claims use since Oct. 15, 1896.

Ser. No. 263,170. THE MIRROR, New York, N. Y. Filed Mar. 14, 1928.



For Soda Water, Ice-Cream Soda Water, Lemon Phosphate, Phosphates in Other Flavors, Lemonade, and the Same Beverage in Other Flavors.
Claims use since Mar. 14, 1912.

Ser. No. 265,845. LEIGHTON H. KIRKPATRICK, Walsenburg, Colo. Filed May 8, 1928.

Ojo
(Pronounced O-HO)

The word "Pronounced" is disclaimed apart from the mark shown in the drawing.
For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same, and Mineral Waters, Table Waters, and Spring Waters.
Claims use since Jan. 1, 1928.

Ser. No. 266,315. FORT DODGE BOTTLING WORKS, Fort Dodge, Iowa. Filed May 12, 1928.

MAKES OTHER
MIXTURES BEHAVE

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Apr. 6, 1927.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 244,961. SCHOKOLADENFABRIK MAUXION M. B. H., Saalfeld, Germany. Filed Feb. 26, 1927.

Mauxion

For Chocolate, Cocoa, Candy and Sweetmeats, Treacle Toffee, Clag Gum, Fruit Preserves, Conserves, Candied Fruits, Jellies, Marmalades, Jams, Cakes, Biscuits, Waffles, Macaroni, Vermicelli, Eggs; Fresh, Condensed, and Evaporated Milk; Butter, Cheese, Artificial Butter, Margarine; Fresh, Canned, Dried Meats—Namely, Beef, Pork, and Lamb; Fresh, Canned, Dried Fishes; Extracts of Meat; Fresh, Canned, Dried Vegetables; Fresh, Canned, Dried Fruits; Coffee, Substitutes of Coffee, Tea, Sugar, Table Syrup, Honey, Corn Meal, Canned and Dried Pulse, Wheat Flour, Rye Flour, Whole-Wheat Flour, Self-Rising Flour, Pancake Flour, Corn Meal; Canned, Dried, and Fresh Pulse; Spices; Sauces and Soups—Namely, Gravies, Gravy Soups, Devonshire Sauces, Broths, Bouillons, and Sauces Polanaises; Vinegar, Mustard, Pastries, Yeast.
Claims use since 1855.

Ser. No. 250,850. LIMOEIRA COMPANY, doing business as Limoneira Co., Santa Paula, Calif. Filed June 21, 1927.

WHITE CROSS

For Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.
Claims use since Jan. 15, 1907.

Ser. No. 250,871. TEAGUE-MCKEVETT COMPANY, Santa Paula, Calif. Filed June 21, 1927.

Silver Lord

For Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.
Claims use since Jan. 1, 1914.

Ser. No. 252,066. JOHN ROTHSCHILD & CO. INC., San Francisco, Calif. Filed July 14, 1927.

ARMADA

For Canned Deciduous Fruits, Canned Vegetables.
Claims use since Jan. 2, 1905.

Ser. No. 254,463. LIBERTY ORCHARDS COMPANY, Cashmere, Wash. Filed Sept. 7, 1927.

Orchard-Feast

For Jam.
Claims use since August, 1927.

Ser. No. 257,005. EAGLE FOOD PRODUCTS CORPORATION, Memphis, Tenn. Filed Nov. 3, 1927.



The lining in the drawing is for shading only and not for color.
For Pickles, Hot Vegetable Relishes, Sweet Pickle Relishes.
Claims use since about Aug. 15, 1927.

Ser. No. 257,666. EADINGTON FRUIT COMPANY, Fullerton, Calif. Filed Nov. 17, 1927.

ACME

For Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.
Claims use since January, 1900.

Ser. No. 257,678. IMPERIAL PRODUCE COMPANY, Los Angeles, Calif. Filed Nov. 17, 1927.

COACHELLA VALLEY
OASIS

The pictorial representation of the goods is disclaimed apart from the other features of the mark. The geographical notation "Coachella Valley" is also disclaimed.
For Fresh Vegetables—Namely, Tomatoes.
Claims use since Apr. 15, 1926.

Ser. No. 258,162. THE CARR MILLING COMPANY, Hamilton, Ohio. Filed Nov. 29, 1927.

RITE MIXT



No claim is made to the term "Rite Mixt" and the word "Flour" apart from the mark as shown. The drawing is lined to indicate shading.
For Self-Rising Flour.
Claims use since Nov. 5, 1927.

Ser. No. 259,138. SCHWEIZ. KINDERMEHL-FABRIK, Belp, Switzerland. Filed Dec. 19, 1927.

GALACTINA

For Infants' Food.
Claims use since June, 1899.

Ser. No. 260,566. THE HILLS BROTHERS COMPANY, New York, N. Y. Filed Jan. 24, 1928.



For Canned Cranberry Sauce.
Claims use since Oct. 28, 1927.

Ser. No. 260,819. FRIDAY CANNING CORPORATION, New Richmond, Wis. Filed Jan. 28, 1928.

FRIDAY'S



The word "Friday's" is disclaimed apart from the mark shown.
For Canned Vegetables.
Claims use since Oct. 1, 1926.

Ser. No. 260,902. COST MOSSIDES, Barberton, Ohio. Filed Jan. 30, 1928.



The words "Malt Syrup" immediately following the name "Betsy Ross" are disclaimed as a part of the trade-mark applied for.

For Malt Extract.

Claims use since June, 1926.

Ser. No. 261,102. WM. FISHER & CO., San Francisco, Calif. Filed Feb. 3, 1928.



The lining on the drawing is not for color, but for shading only.

For Wheat Flour, Rolled Oats, Canned Evaporated Milk, Canned Fruits, Canned Sardines, Canned Salmon, Fresh Apples, and Tea.

Claims use since June 1, 1922.

Ser. No. 261,665. THE BRADLEY, SMITH COMPANY, New Haven, Conn. Filed Feb. 14, 1928.

BUNKERS

For Candy.

Claims use since Jan. 30, 1928.

Ser. No. 262,181. O. ROTH & CO. A.-G. EXPORT IN SCHWEIZERKÄSE (EMMENTHALER), Uster, Switzerland. Filed Feb. 24, 1928.



All notations except "O. Roth & Co. S. A." and "Orco" apart from the mark as shown are disclaimed.

For Cheese of Swiss Origin.

Claims use since Jan. 11, 1928.

Ser. No. 262,521. MANOR FOOD PRODUCTS COMPANY, Philadelphia, Pa. Filed Mar. 2, 1928.



Applicant disclaims the words "Juliennes" and "Lush." The mark is printed in red, which is an essential feature.

For Julienne Potato Sticks.

Claims use since Aug. 1, 1927.

Ser. No. 262,568. IDA KOSSOFF, New York, N. Y. Filed Mar. 3, 1928.

KOSSOFAT

For Vegetable Fat.

Claims use since Jan. 1, 1928.

Ser. No. 262,936. THE RUBAY CANDY COMPANY, Cleveland, Ohio. Filed Mar. 10, 1928.



The descriptive notation "24" appearing on the drawing is disclaimed. The descriptive term "5¢" and the geographical notation "Cleveland, Ohio" are also disclaimed.

For Candies.

Claims use since Mar. 1, 1927.

Ser. No. 262,955. DUOMO FOOD PRODUCTS, INC., New York, N. Y. Filed Mar. 10, 1928.

DUOMO

For Rice, Cheese, Antipasto, Macaroni, Canned Sardines, Canned Tunny Fish, Canned Mushrooms, and Preserved Vegetables in Oil and Vinegar—Namely, Peas and Beans.

Claims use since about September, 1926.

Ser. No. 263,048. MRS. ANNA M. MILLER, Alliance, Nebr. Filed Mar. 12, 1928.



The words "Home-Made, Thousand Island Dressing," and "Alliance, Nebraska" are disclaimed apart from the mark as shown.

For Salad Dressing.

Claims use since Feb. 1, 1928.

Ser. No. 263,460. CHULA VISTA CITRUS ASSOCIATION, also doing business as San Diego Fruit Company, Chula Vista, Calif. Filed Mar. 20, 1928.

SIR GALAHAD

For Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.

Claims use since Jan. 2, 1912.

Ser. No. 263,553. GRACE W. MARTIN, doing business as The Martin Company, Winter Garden, Fla. Filed Mar. 21, 1928.

Aunt Lou's

For Vegetable Relish Composed of Tomatoes, Brown Sugar, Onions, Sweet Peppers, Vinegar, and Salt.

Claims use since Jan. 5, 1928.

Ser. No. 264,514. MARY PILLOW FRENCH, doing business as Contrary Mary Prod. Co., Greenwood, Miss. Filed Apr. 7, 1928.

CONTRARY MARY'S

For Confection in the Form of Loosely-Mixed Nuts and Raisins.

Claims use since Dec. 5, 1927.

Ser. No. 264,571. ESKIMO PIE CORPORATION, Louisville, Ky. Filed Apr. 9, 1928.

MAGIC PIE

For Frozen Confections.

Claims use since about Nov. 15, 1927.

Ser. No. 264,580. HAWAIIAN PACKING COMPANY, LTD., Hilo, Territory of Hawaii. Filed Apr. 9, 1928.

MOANA

PINEAPPLE NIBS

Applicant disclaims the word "Pineapple" except in the exact relation and association in which it appears.
For Candied Fruit—Namely Glacé Pineapple.
Claims use since Apr. 2, 1928.

Ser. No. 265,107. DANIEL T. HICKEY, doing business as Maty Surtea Co., (Not Inc.), Chicago, Ill. Filed Apr. 19, 1928.

MATY

SURTEA

No claim is made to the word "Maty" apart from the association shown.
For Natural Product Consisting of Leaves, Flowers, and Twigs of a South American Botanical Growth and Used for Food and Beverage Purposes.
Claims use since on or about Apr. 7, 1928.

Ser. No. 265,218. LAWRENCEBURG ROLLER MILLS CO., Lawrenceburg, Ind. Filed Apr. 21, 1928.

FARM KING

For Mill Feeds.
Claims use since Mar. 26, 1928.

Ser. No. 265,298. SALTER CANNING COMPANY, North Rose, N. Y. Filed Apr. 23, 1928.

ROSEFRUIT

For Canned Berries—Namely, Strawberries and Raspberries; Canned Fruits—Namely, Cherries, Pears, and Apples; Canned Vegetables—Namely, Peas, Asparagus, and Beans.
Claims use since 1912.

Ser. No. 265,338. BEATRICE LOWENSTEIN, New York, N. Y. Filed Apr. 24, 1928.



The descriptive words "Honey Buns" and the representation of the goods are disclaimed apart from the mark shown in the drawing.
For Cakes, Particularly Honey Buns.
Claims use since Nov. 14, 1926.

Ser. No. 265,615. CALIFORNIA FIG-CO COMPANY INC., Los Angeles, Calif. Filed Apr. 30, 1928.

Fico

For Coffee Substitute.
Claims use since Apr. 17, 1928.

Ser. No. 265,849. WILLIAM MACK, doing business as Nu Song Co., Dayton, Ohio. Filed May 3, 1928.

NU-SONG

For Bird Food.
Claims use since Jan. 3, 1928.

Ser. No. 265,925. THE JOHN G. PATON COMPANY, INC., New York, N. Y. Filed May 4, 1928.

Hunny-whip

No registration rights are claimed for the word "Hunny."
For Honey.
Claims use since Apr. 9, 1928.

Ser. No. 266,051. JOHN F. SEETH, Belerose, N. Y. Filed May 7, 1928.

CHOWDER BOAT

The word "Chowder" is disclaimed apart from the mark shown in the drawing.
For Canned Clam Chowder.
Claims use since May 1, 1928.

Ser. No. 266,090. MUSHER AND COMPANY, Washington, D. C. Filed May 8, 1928.

Saba

Jose Sabate

Applicant disclaims the use of the words "Jose Sabate" except when used in combination with the word "Saba" as the combination appears in the drawing.
For Mayonnaise and Salad Dressings.
Claims use since May 8, 1928.

Ser. No. 266,134. HAWAIIAN PINEAPPLE PRODUCTS CO., LTD., San Francisco, Calif., and Iwilei, Territory of Hawaii. Filed May 9, 1928.

SWORD

For Canned Pineapple.
Claims use since Mar. 28, 1928.

Ser. No. 266,210. FLORENCE BELLE MCCRACKEN, Walla Walla, Wash. Filed May 10, 1928.

RED RIVER

For Syrup Used for Flavoring Foods, Ice Creams, Ices, or Waffle Syrup.
Claims use since May 19, 1927.

Ser. No. 266,305. ELGIN HEIGHTS COMMUNITY, Elgin, Ill. Filed May 12, 1928.



The geographical term "Elgin Heights" and the pictorial representation of an apple are not being claimed apart from the other features of the mark.
For Apples in Their Natural Fresh State.
Claims use since October, 1923.

Ser. No. 266,651. ELGIN CHOCOLATE PRODUCTS CO. INC., Elgin, Ill. Filed May 19, 1928.



No claim is made to the word "Nut." The drawing is lined to indicate blue.
For Candy.
Claims use since Jan. 20, 1928.

Ser. No. 266,924. THE GEORGE CLOSE CO., Cambridge, Mass. Filed May 24, 1928.

CLOCO

For Candy.
Claims use since Jan. 1, 1913.

Ser. No. 266,976. E. A. COUTURE, Modesto, Calif. Filed May 25, 1928.

SEA-FOAM

For Fresh Grapes.
Claims use since August, 1927.

Ser. No. 266,982. EIDINGER & HAGER, INC., New York, N. Y. Filed May 25, 1928.

E. & H.

For Eggs.
Claims use since about May 16, 1927.

Ser. No. 267,081. ROBERT W. RILEY, Los Angeles, Calif. Filed May 26, 1928.

HI-WAY

For Sandwiches.
Claims use since May 12, 1928.

Ser. No. 267,188. C. H. ELKES & SONS LIMITED, Uttoxeter, England. Filed May 29, 1928.

YEASCUIT

For Biscuits.
Claims use since Jan. 6, 1928.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 235,469. GRAHAM PAPER COMPANY, St. Louis, Mo. Filed Aug. 2, 1926.

LINO-CUSHION

For Carpet Felt.
Claims use since October, 1923.

Ser. No. 260,041. ANIMAL TRAP COMPANY OF AMERICA, Lititz, Pa. Filed Jan. 13, 1928.

ONEIDA VICTOR

For Animal Traps.
Claims use since Feb. 1, 1926.

Ser. No. 260,879. CURTIS-LEGER FIXTURE COMPANY, Chicago, Ill. Filed Jan. 30, 1928.

P. I.

For Mannequins, Statuettes, Models, and Figures for Window, Store, and Studio Display and Parts Thereof Made from Wax and Other Materials.
Claims use since about January, 1910.

Ser. No. 263,257. BERNARD BRAND, doing business as J. Brand & Son, New York, N. Y. Filed Mar. 16, 1928.

GRANITOL

For Artificial Leather, Waterproof Coated Fabric, and Waterproof Cloth.
Claims use since about May, 1927.

Ser. No. 264,910. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Apr. 16, 1928.



For Rubber Sheeting (Bed and Crib Sheeting).
Claims use since Aug. 6, 1927.

Ser. No. 265,293. EDGAR W. POHLIG, San Francisco Calif. Filed Apr. 23, 1928.



For Electrotype Cuts.
Claims use since on or about Mar. 15, 1928.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JULY 10, 1928.

244,062. PURE BARLEY MALT EXTRACT FOR BEVERAGE PURPOSES ONLY. ALBERT J. COLEMAN, doing business as Acme Supply Store, Binghamton, N. Y.
Filed October 29, 1927. Serial No. 256,765. PUBLISHED APRIL 24, 1928. Class 46.

244,063. DOLLS, MECHANICAL TOYS, AND TOY BUILDING BLOCKS. EDWARD L. ILSON, Brooklyn, N. Y.
Filed October 17, 1927. Serial No. 256,191. PUBLISHED MAY 1, 1928. Class 22.

244,064. READY-MIXED PAINTS, LACQUER, VARNISH, AND ENAMEL PAINT. W. P. FULLER & Co., San Francisco, Calif.
Filed October 15, 1927. Serial No. 256,114. PUBLISHED JANUARY 3, 1928. Class 16.

244,065. SAUCE BORDELAISE, SAUCE NEWBURG, SAUCE BERCY, CHILI CON CARNE, SESAME OIL FOR FOOD PURPOSES, THIN CHINESE SOY SAUCE, RASPBERRY SAUCE, THICK CHINESE SOY SAUCE. STEELE-WEDELES COMPANY, Chicago, Ill.
Filed September 30, 1927. Serial No. 255,472. PUBLISHED JANUARY 31, 1928. Class 46.

244,066. ALL KINDS OF BAKERY PRODUCTS, SUCH AS BREAD, COOKIES, ROLLS, PIES, CAKES, SWEET DOUGH, AND FRENCH PASTRY. MANNING'S, INC., Seattle, Wash.
Filed August 30, 1927. Serial No. 254,141. PUBLISHED APRIL 24, 1928. Class 46.

244,067. PIECE GOODS—VIZ, A FABRIC MADE WITH A COTTON WARP AND A FILLING OF WOOL. CARTER & ROGERS, Lebanon, N. H.
Filed June 14, 1927. Serial No. 250,489. PUBLISHED AUGUST 2, 1927. Class 42.

244,068. MECHANICAL TOY AEROPLANES. J. CHEIN & Co., Harrison, N. J.
Filed June 4, 1927. Serial No. 250,010. PUBLISHED JULY 26, 1927. Class 22.

244,069. CHILDREN'S JUMPER SWINGS AND OTHER NAMED TOYS. THE PERFECTION MANUFACTURING COMPANY, St. Louis, Mo.
Filed May 12, 1927. Serial No. 248,922. PUBLISHED APRIL 24, 1928. Class 22.

244,070. ADHESIVE MENDING FLUID. WENDELL J. CALEY, doing business as Titite Company, Bala, Pa.
Filed January 22, 1927. Serial No. 243,196. PUBLISHED APRIL 24, 1928. Class 5.

244,071. GERMICIDE AND ANTISEPTIC. THE CLINICAL LABORATORIES COMPANY, Cleveland, Ohio.
Filed January 3, 1927. Serial No. 242,280. PUBLISHED APRIL 10, 1928. Class 6.

244,072. FRESH APPLES, FRESH BANANAS, DRIED BEANS, EGGS, FRESH LEMONS, DRIED ONIONS, FRESH ORANGES, FRESH POTATOES, AND WALNUTS IN THEIR NATURAL STAGE. HOBBS-PARSONS COMPANY, Fresno, Calif.
Filed November 29, 1926. Serial No. 240,711. PUBLISHED APRIL 24, 1928. Class 46.

244,073. WHEAT FLOUR. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn.
Filed October 19, 1926. Serial No. 238,870. PUBLISHED APRIL 24, 1928. Class 46.

244,074. WOVEN COTTON FABRICS—NAMELY, COTTON FLANNELS. ROANOKE MILLS COMPANY, Roanoke Rapids, N. C.
Filed April 22, 1926. Serial No. 230,571. PUBLISHED DECEMBER 6, 1927. Class 42.

244,075. WHEAT FLOUR. BERNET, CRAFT & KAUFFMAN MILLING COMPANY, St. Louis, Mo.
Filed April 9, 1926. Serial No. 229,894. PUBLISHED JULY 12, 1927. Class 46.

244,076. EDUCATIONAL READING TOY GAME. SHULMAN & SONS, New York, N. Y.
Filed February 25, 1928. Serial No. 262,264. PUBLISHED MAY 1, 1928. Class 22.

244,077. ATOMIZERS FOR PERFUME AND THE LIKE. MARCEL FRANCK, INC., New York, N. Y.
Filed February 25, 1928. Serial No. 262,235. PUBLISHED MAY 1, 1928. Class 44.

244,078. PAINTS AND WALL COVERINGS SIMILAR TO PAINTS. TEX-RYTE PRODUCTS CORPORATION, New York, N. Y., assignor to Artwall Manufacturing Co., Inc., New York, N. Y., a Corporation of New York.
Filed February 20, 1928. Serial No. 261,997. PUBLISHED MAY 1, 1928. Class 16.

244,079. NURSING-BOTTLE NIPPLES OR CAPS MADE OF RUBBER. DAVOL RUBBER COMPANY, Providence, R. I.
Filed February 15, 1928. Serial No. 261,704. PUBLISHED MAY 1, 1928. Class 44.

244,080. ADHESIVE PASTE. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio.
Filed February 15, 1928. Serial No. 261,690. PUBLISHED APRIL 24, 1928. Class 5.

244,081. LACQUER REDUCER. SYRUP PRODUCTS COMPANY, INC., New York, N. Y.
Filed February 10, 1928. Serial No. 261,534. PUBLISHED MAY 1, 1928. Class 16.

244,082. MACHINES FOR DRYING HAIR. THE MARTIN BROTHERS ELECTRIC COMPANY, Cleveland, Ohio.
Filed February 8, 1928. Serial No. 261,372. PUBLISHED MAY 1, 1928. Class 44.

244,083. ELECTRICAL APPARATUS FOR USE IN APPLYING STEAM AND LIGHT TREATMENT. THE MARTIN BROTHERS ELECTRIC COMPANY, Cleveland, Ohio.
Filed February 8, 1928. Serial No. 261,371. PUBLISHED MAY 1, 1928. Class 44.

244,084. PANCAKE FLOUR. D. J. TOOMEY MILLING CO. INC., Spearfish, S. Dak., and Crawford, Nebr.
Filed February 6, 1928. Serial No. 261,290. PUBLISHED APRIL 24, 1928. Class 46.

244,085. FISHING REELS. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio.
Filed February 6, 1928. Serial No. 261,248. PUBLISHED APRIL 24, 1928. Class 22.

244,086. FISHING REELS. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio.
Filed February 6, 1928. Serial No. 261,247. PUBLISHED APRIL 24, 1928. Class 22.

244,087. HAND BAGS AND OTHER FANCY BAGS, WORK BAGS, AND NOVELTY BAGS OF TEXTILE MATERIAL ALL IN THE NATURE OF HAND BAGS. DUTCHESS MFG. CO., Poughkeepsie, N. Y.
Filed February 2, 1928. Serial No. 261,050. PUBLISHED APRIL 24, 1928. Class 3.

244,088. FROZEN CONFECTIONS. LINZY HICKS, doing business as Hicks Ice Cream Company, Lexington, Ky.
Filed January 28, 1928. Serial No. 260,824. PUBLISHED APRIL 17, 1928. Class 46.

244,089. CHEESE. DAVIS BROS. CHEESE CO., Plymouth, Wis.
Filed January 28, 1928. Serial No. 260,810. PUBLISHED APRIL 24, 1928. Class 46.

244,090. GOLF TEES. GRANBY MANUFACTURING COMPANY, INC., Keene, N. H.
Filed January 27, 1928. Serial No. 260,728. PUBLISHED MAY 1, 1928. Class 22.

244,091. CAKE FLOUR. IGLEHEART BROTHERS, INC., Evansville, Ind.
Filed January 24, 1928. Serial No. 260,569. PUBLISHED APRIL 24, 1928. Class 46.

244,092. CERTAIN NAMED PAINT PRODUCTS. MERCHANT'S & MANUFACTURER'S PAINT CO., Louisville, Ky.
Filed January 6, 1928. Serial No. 259,777. PUBLISHED MAY 1, 1928. Class 16.

244,093. APPLICATORS AND HAND MASSAGING IMPLEMENTS. ALOIS MERKE, doing business as Ha-Su-Ma Laboratory, Chicago, Ill., assignor to Ha-Su-Ma Laboratories, Inc., Chicago, Ill., a Corporation of Illinois.
Filed January 5, 1928. Serial No. 259,741. PUBLISHED MAY 1, 1928. Class 44.

244,094. COMPOUND FOR THE TREATMENT OF BRONCHIAL COUGHS AND ASTHMA. AUSTIN LABORATORIES INCORPORATED, Providence, R. I.
Filed December 7, 1927. Serial No. 258,564. PUBLISHED FEBRUARY 28, 1928. Class 6.

244,095. SPORTING GOODS AND SUPPLIES. S C & E MANUFACTURING CORPORATION, New York, N. Y.
Filed December 3, 1927. Serial No. 258,430. PUBLISHED APRIL 24, 1928. Class 22.

244,096. DRIED MILK IN POWDER FORM USED FOR BABY-FOOD PREPARATIONS IN DRY FORM AND ALSO FOR PHARMACEUTICAL PREPARATIONS AND FOR POWDERED MALTED MILK. DANIEL ENGLE, doing business as Daniel Engle Co., New York, N. Y.
Filed December 3, 1927. Serial No. 258,408. PUBLISHED MARCH 6, 1928. Class 46.

244,097. ELECTRIC APPARATUS FOR PERMANENT WAVING OF HAIR. GEORGE EDWARDS BJÖRKMAN, Paris, France.
Filed August 29, 1927. Serial No. 254,071. PUBLISHED APRIL 24, 1928. Class 44.

244,098. PREPARATION FOR THE COMPLEXION. IDA MAY FOLSOM, doing business as Mrs. George W. Folsom, McAllen, Tex.
Filed August 24, 1927. Serial No. 253,883. PUBLISHED APRIL 24, 1928. Class 6.

244,099. PREPARATION FOR THE TREATMENT OF COLDS. DR. F. RASCHIG, Ludwigshafen-on-the-Rhine, Germany.
Filed July 1, 1927. Serial No. 251,413. PUBLISHED APRIL 24, 1928. Class 6.

244,100. HAIR TONIC. CHRISTY DOUNSTIDES, Burlington, Vt.
Filed June 9, 1927. Serial No. 250,233. PUBLISHED APRIL 24, 1928. Class 6.

244,101. DOUCHES FOR WOMEN. MAX GOTTLIEB, Berlin, Germany.
Filed March 16, 1927. Serial No. 245,840. PUBLISHED MAY 1, 1928. Class 44.

244,102. INTRAVENOUS AND INTRAMUSCULAR INJECTIONS FOR THE TREATMENT OF ANÆMIA, ARTHRITIS, CANCER, GOITER, LUES, MALIGNANT GROWTHS, PLEURISY, SCIATICA, SKIN DISEASES, AND SYPHILIS; OINTMENTS AND LOTIONS FOR THE TREATMENT OF DISEASES OF THE SKIN. J. DOAK AND COMPANY, Philadelphia, Pa., assignor to J. Doak Company, Philadelphia, Pa., a Corporation of Pennsylvania.
Filed February 2, 1927. Serial No. 243,692. PUBLISHED APRIL 17, 1928. Class 6.

244,103. BAKING POWDER. THE SOUTHERN MANUFACTURING CO., Richmond, Va.
Filed November 2, 1926. Serial No. 239,604. PUBLISHED APRIL 17, 1928. Class 6.

244,104. CHEMICAL AND ORGANOTHERAPEUTICAL PREPARATIONS, ETC. CHEMISCHE FABRIK "PROMONTA" GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Hamburg, Germany.
Filed March 25, 1926. Serial No. 229,148. PUBLISHED APRIL 24, 1928. Class 6.

244,105. NUTS FOR BOLTS AND OTHER THREADED MEMBERS. MACLEAN-FOGG LOCK NUT COMPANY, Chicago, Ill.
Filed August 1, 1927. Serial No. 252,852. PUBLISHED SEPTEMBER 27, 1927. Class 13.

244,106. WHEAT FLOUR. POLAR MILLING COMPANY, Minneapolis, Minn.
Filed March 12, 1928. Serial No. 263,013. PUBLISHED APRIL 24, 1928. Class 46.

244,107. GOLF BALLS. PEOPLES DRUG STORES, INC., Washington, D. C.
Filed March 10, 1928. Serial No. 262,970. PUBLISHED MAY 1, 1928. Class 22.

244,108. FOOT-CORRECTIVE APPLIANCES. THE SCHOLL MFG. CO. INC., Chicago, Ill.
Filed March 10, 1928. Serial No. 262,938. PUBLISHED MAY 1, 1928. Class 44.

244,109. ARTIFICIAL TEETH, TOOTH FACINGS, AND TOOTH BACKINGS. THE COLUMBUS DENTAL MANUFACTURING CO., Columbus, Ohio.
Filed March 7, 1928. Serial No. 262,702. PUBLISHED MAY 1, 1928. Class 44.

244,110. READY-MIXED PAINTS FOR COATING METALS. TRUSCON STEEL COMPANY, Detroit, Mich., doing business as The Truscon Laboratories, Hamtramck, Mich.
Filed March 3, 1928. Serial No. 262,580. PUBLISHED APRIL 24, 1928. Class 16.

244,111. MAYONNAISE, THOUSAND ISLAND DRESSING, AND PREPARED MUSTARD. LEADER FOOD PRODUCTS CO., Chicago, Ill.
Filed March 2, 1928. Serial No. 262,520. PUBLISHED APRIL 24, 1928. Class 46.

244,112. GOLF BALLS. ADVERTISING GOLF BALL CORPORATION, New York, N. Y.
Filed March 2, 1928. Serial No. 262,501. PUBLISHED APRIL 24, 1928. Class 22.

244,113. DAIRY AND POULTRY FEED. STATESVILLE FLOUR MILLS COMPANY, Statesville, N. C.
Filed March 1, 1928. Serial No. 262,492. PUBLISHED APRIL 24, 1928. Class 46.

244,114. VARNISHES, PAINTS, AND LACQUERS. FLOOD & CONKLIN COMPANY, Newark, N. J.
Filed March 1, 1928. Serial No. 262,452. PUBLISHED MAY 1, 1928. Class 16.

244,115. GLUES AND MUCILAGES. HENNING-ORLA BRUHN, Copenhagen, Denmark.
Filed February 28, 1928. Serial No. 262,359. PUBLISHED APRIL 24, 1928. Class 5.

244,116. CARBON BLACK. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed February 28, 1928. Serial No. 262,357. PUBLISHED MAY 1, 1928. Class 16.

244,117. PREPARATION FOR CHILLS, FEVER, COLDS, AND LA GRIPPE. THE HOWELL COMPANY, INC., New Orleans, La.
Filed March 15, 1928. Serial No. 263,213. PUBLISHED APRIL 24, 1928. Class 6.

244,118. LINIMENT FOR EXTERNAL USE ONLY IN THE TREATMENT OF LUMBAGO, MUSCULAR RHEUMATISM, WIND COLIC, ACUTE PLEURISY, SPASMODIC CROUP, CHILBLAINS, MOSQUITO BITES, SORENESS AND STIFFNESS OF JOINTS AND MUSCLES, NEURALGIA, TOOTHACHE, BRUISES, SPRAINS, ENLARGED JOINTS, AND ASTHMA AND COLD IN THE CHEST OR LUNGS. JOHN E. SCOTT, Jersey City, N. J.
Filed March 2, 1928. Serial No. 262,531. PUBLISHED APRIL 24, 1928. Class 6.

244,119. MEDICINAL PREPARATION IN LIQUID, FORM FOR THE TREATMENT OF STOMACH, KIDNEY, AND LIVER AILMENTS, PILES, WEAK NERVES, HEARTBURN, RHEUMATIC AND GOUTY PAINS, AND LUNG INFLAMMATION. CASIMIR A. LESIAK, doing business as Karnack-Ambrosia Co., Scranton, Pa.
Filed March 1, 1928. Serial No. 262,470. PUBLISHED APRIL 24, 1928. Class 6.

244,120. ROUGES, LIP STICKS, FACE CREAMS, FACE POWDERS, COMPACT FACE POWDERS, AND TALCUM POWDER. J. E. ELLIS, LIMITED, Horsforth, near Leeds, England.
Filed March 1, 1928. Serial No. 262,451. PUBLISHED APRIL 17, 1928. Class 6.

244,121. ANTISEPTIC WAFERS USED AS AN ANTISEPTIC GERMICIDE, DISINFECTANT, RESOLVENT, DEODORANT, DETERGENT, STIMULANT, ASTRINGENT, AND ALTERATIVE FOR THE TREATMENT OF DISEASES OF WOMEN. CHARLES D. SCOTT, doing business as Formozone Chemical Co., Trenton, N. J.
Filed February 29, 1928. Serial No. 262,416. PUBLISHED APRIL 24, 1928. Class 6.

244,122. EXTRACT PREPARED FROM THE MAMMALIAN LIVER IN CONCENTRATED FORM AND DESIGNED FOR THE TREATMENT OF ANEMIA. FAIRCHILD BROS. & FOSTER, New York, N. Y.
Filed February 29, 1928. Serial No. 262,396. PUBLISHED APRIL 17, 1928. Class 6.

244,123. PREPARATION FOR STOPPING RUNS IN HOSIERY, KNITTED WEAR, AND THE LIKE. ALBERT R. BELLEROSE, doing business as Stoppo Products Company, Hartford, Conn.
Filed February 29, 1928. Serial No. 262,387. PUBLISHED APRIL 17, 1928. Class 6.

244,124. INSECTICIDE. MCCORMICK & CO., INCORPORATED, Baltimore, Md.
Filed February 28, 1928. Serial No. 262,368. PUBLISHED APRIL 24, 1928. Class 6.

244,125. CUTWORM AND GOPHER REPELLENT AND SEEDCORN DISINFECTANT. IRVING MCEWEN, Omaha, Nebr.
Filed February 25, 1928. Serial No. 262,239. PUBLISHED APRIL 17, 1928. Class 6.

244,126. PREPARATION FOR THE RELIEF OF INFLAMMATION AND PAIN. JULIUS KRAMER, doing business as Goose Oil Mfg. Co., New York, N. Y.
Filed February 25, 1928. Serial No. 262,225. PUBLISHED APRIL 24, 1928. Class 6.

244,127. MEDICINAL POWDER FOR THE TREATMENT AND RELIEF IN PYORRHEA. ROBERT ELMER GRABEL, doing business as Master Dentifrice Laboratories, Inc., Borden Springs, Ala.
Filed February 21, 1928. Serial No. 262,025. PUBLISHED APRIL 17, 1928. Class 6.

244,128. TOOTH PASTE. PAN PACIFIC PRODUCTS, INCORPORATED, Los Angeles, Calif.
Filed February 20, 1928. Serial No. 261,981. PUBLISHED APRIL 17, 1928. Class 6.

244,129. PREPARATION FOR NEURITIS, GOUTY OR RHEUMATIC CONDITIONS. MEYER TOBIN, doing business as Alkine Laboratories, New Brunswick, N. J.
Filed February 18, 1928. Serial No. 261,917. PUBLISHED APRIL 24, 1928. Class 6.

244,130. KIND OF LEATHER STUFFING KNOWN AS FAT LIQUOR. THE MARTIN DENNIS COMPANY, Newark, N. J.
Filed February 18, 1928. Serial No. 261,894. PUBLISHED APRIL 24, 1928. Class 6.

244,131. PERFUMES. WM. H. BROWN & BRO. COMPANY, Baltimore, Md., and New York, N. Y.
Filed February 17, 1928. Serial No. 261,788. PUBLISHED APRIL 24, 1928. Class 6.

244,132. PAINT ENAMEL. THE MORGAN COMPANY, Peoria, Ill.
Filed July 9, 1927. Serial No. 251,770. PUBLISHED MAY 1, 1928. Class 16.

244,133. INSECTICIDE. E. A. KLEIN, doing business as Klein's Will-Kill Exterminator Co., Milwaukee, Wis.
Filed February 16, 1928. Serial No. 261,758. PUBLISHED APRIL 17, 1928. Class 6.

244,134. PREPARATION FOR GROWING HAIR. LULA R. YORK, Philadelphia, Pa.
Filed February 15, 1928. Serial No. 261,728. PUBLISHED APRIL 17, 1928. Class 6.

244,135. COUGH SYRUP. HENRY M. PHILLIPS, doing business as Henry M. Phillips Co., Goodman, Mo.
Filed February 13, 1928. Serial No. 261,646. PUBLISHED APRIL 24, 1928. Class 6.

244,136. TABLETS AND CAPSULES FOR THE RELIEF OF PAIN, COMPOSED OF ANTIPYRETIC ANALGESIC ANTIRHEUMATIC, ACID ACETYL-SALICYLIC, PHENACETINE, CAMPHOR MONO-BROMATE, CAFFEINE SALICYLATE. ALBERT EDWARD MALLARD, Detroit, Mich.
Filed February 13, 1928. Serial No. 261,639. PUBLISHED APRIL 17, 1928. Class 6.

244,137. MEDICINAL WASH HAVING ANTISEPTIC, DEODORANT, AND ASTRINGENT PROPERTIES. MONROE A. FERDON, doing business as Fer-Don, Indianapolis, Ind.
Filed February 13, 1928. Serial No. 261,619. PUBLISHED APRIL 24, 1928. Class 6.

244,138. CHEMICAL PRODUCTS FOR THE FILLING, BLEACHING, AND CONDITIONING OF LEATHER. CATARACT CHEMICAL COMPANY, INC., Buffalo, N. Y.
Filed February 8, 1928. Serial No. 261,349. PUBLISHED APRIL 17, 1928. Class 6.

244,139. RESTORATIVE MEDICAL PLASTER USED FOR COUGHS, TICKLING OF THROAT, INDIGESTION, KIDNEY TROUBLE, SORES, BACKACHE, CUTS, BRUISES, AND PAINS IN THE STOMACH. JANE D. HAYS, Chicago, Ill.
Filed February 4, 1928. Serial No. 261,192. PUBLISHED APRIL 17, 1928. Class 6.

244,140. LINIMENT FOR INTERNAL AND EXTERNAL USE FOR THE ALLEVIATION OF PAIN AS IN CASES OF CRAMPS, CHOLERA, COUGH, COLD, EARACHE, LUMBAGO, NEURALGIA, NERVOUS OR SICK HEADACHE, RHEUMATISM, SORE THROAT, TOOTHACHE, LA GRIPPE, AND LIKE AILMENTS. FIRST NATIONAL LABORATORIES, INCORPORATED, Lehighton, Pa.
Filed January 28, 1928. Serial No. 260,816. PUBLISHED APRIL 17, 1928. Class 6.

244,141. PERFUME DROPPERS HAVING IN COMBINATION THEREWITH A LIP STICK. COTY, INC., Wilmington, Del., and New York, N. Y.
Filed November 26, 1927. Serial No. 258,070. PUBLISHED APRIL 24, 1928. Class 6.

244,142. MEDICINAL PREPARATION FOR TONSILITIS, POISON IVY, PILES, ITCH, ECZEMA, CATARRH, HAY FEVER, GONORRHEA, VAGINITIS, GRANULATED WOMB, OVARIAN TROUBLES, LEUCORRHEA, PAINFUL MENSTRUATION, VAGINISMUS, PRURITUS VULVE, PYORRHEA, AND STOMACH TROUBLE. FRANK EARNEST SANDERS, doing business as Prevento Company, Alliance, Nebr.
Filed November 23, 1927. Serial No. 257,998. PUBLISHED APRIL 24, 1928. Class 6.

244,143. MEDICATED INHALER FOR TREATMENT OF DISEASES OF THE RESPIRATORY ORGANS. COCKBURN & CO. LTD., Glasgow, Scotland.
Filed November 7, 1927. Serial No. 257,147. PUBLISHED APRIL 17, 1928. Class 6.

244,144. COMPOUND FOR THE TREATMENT OF RHEUMATISM OF THE JOINTS AND MUSCLES, SUBACUTE OR CHRONIC; LUMBAGO, GOUT, NEURALGIA, AND PAINS OF RHEUMATIC NATURE. ISAAC D. LEVINSON, Detroit, Mich.
Filed October 28, 1927. Serial No. 256,731. PUBLISHED APRIL 17, 1928. Class 6.

244,145. ACTIVATED ERGOSTEROL AN ANTIRACHITIC SUBSTANCE CONTAINING VITAMIN D. MEAD JOHNSON & COMPANY, Evansville, Ind.
Filed February 18, 1928. Serial No. 261,897. PUBLISHED APRIL 17, 1928. Class 6.

244,146. PERFUMES. EDWARD J. FAY, doing business as De Raymond, New York, N. Y.
Filed October 17, 1927. Serial No. 256,181. PUBLISHED DECEMBER 13, 1927. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

244,147. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GREAT GRIMSBY TEXTILE COMPANY, INC., New York, N. Y. Filed May 16, 1928. Serial No. 266,463.

BROMPTON

For Woolens in the Piece.
Claims use since January, 1925.

244,148. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHULTZ, BAUJAN & COMPANY, Beardstown, Ill. Filed May 11, 1928. Serial No. 266,273.

BAKER'S SPECIAL

For Wheat Flour.
Claims use since 1924.

244,149. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. LAZARUS, Traverse City, Mich. Filed May 3, 1928. Serial No. 265,847.

The Lazarus Bitters

For Medicine for Eczema, High Blood Pressure, Rheumatism, and Scrofula.
Claims use since July 5, 1915.

244,150. (CLASS 37. PAPER AND STATIONERY.) THE CARTER-RICE & CARPENTER PAPER CO., Denver, Colo. Filed Apr. 30, 1928. Serial No. 265,619.

COLORADO BOND

For Bond Paper.
Claims use since 1895.

244,151. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) JAMES M. WALSH CO., Milwaukee, Wis. Filed Apr. 30, 1928. Serial No. 265,604.

NO-BUCKLE

For Animal Harness.
Claims use since May 1, 1920.

244,152. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HELLER BROTHERS IMPORTING CO., INC., doing business as Vita Fish Preserving Works, New York, N. Y. Filed Mar. 27, 1928. Serial No. 263,822.

VOLGA

For Caviar in Tins and Jars.
Claims use since December, 1922.

244,153. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ALBERT D. SMITH & CO., New York, N. Y. Filed Mar. 24, 1928. Serial No. 263,752.

LONDON HOLLAND

For Cotton Piece Goods and Shade Cloth.
Claims use since Jan. 1, 1905.

244,154. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VAN WAGENEN AND SCHICKHAUS COMPANY, Newark, N. J. Filed Mar. 14, 1928. Serial No. 263,188.

ESSEX BRAND

For Ham and Bacon.
Claims use since Jan. 1, 1903.

244,155. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) NATHAN KAPLAN, doing business as Union Malt & Hop Company, New York, N. Y. Filed Feb. 23, 1928. Serial No. 262,089.

"HOP-PACK"

For Hops.
Claims use since Feb. 15, 1927.

244,156. (CLASS 12. CONSTRUCTION MATERIALS.) THE READYBUILT PRODUCTS COMPANY, Baltimore, Md. Filed Nov. 2, 1927. Serial No. 256,968.

READYBUILT

For Fireplaces.
Claims use since Feb. 24, 1927.

244,157. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. W. OSBORNE, doing business as C. W. Osborne Co., Fullerton, Calif. Filed June 1, 1927. Serial No. 249,861.

VALENCIA

For Fresh Vegetables.
Claims use since May 23, 1927.

244,158. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D'ARRIGO BROS. CO., San Jose, Calif. Filed Nov. 2, 1927. Serial No. 256,914.

EVER SWEET

For Fresh Vegetables—Namely, Sweet Anise and Broccoli.
Claims use since Feb. 1, 1927.

244,159. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SARAH LEE YOUNG, doing business as Young's Laboratory, Nashville, Tenn. Filed June 7, 1927. Serial No. 250,149.

Young's BREAST EASE

For Medical Preparations for the Treatment of Weed or Soreness in the Breast.
Claims use since Apr. 25, 1927.

244,160. (CLASS 12. CONSTRUCTION MATERIALS.) F. L. SAINO MANUFACTURING CO. INC., Memphis, Tenn. Filed June 2, 1927. Serial No. 249,930.

SAINO

For Metal Fire Doors.
Claims use since Apr. 1, 1927.

244,161. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LANCASTER METALCRAFT CORP'N, Columbia, Pa. Filed Mar. 23, 1927. Serial No. 246,212.

Clipit

For Can Opener.
Claims use since Feb. 18, 1927.

244,162. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE JOHN H. LOCK CO., INC., New York, N. Y. Filed Jan. 15, 1927. Serial No. 242,900.

LOCK'S

For Canned Fruits, Canned Vegetables, Canned Fish, Canned Berries, Canned Shellfish, Dried Apples, Apple Butter, Apple Sauce, Dried Apricots, Canned Beef Soup, Brown Bread, Dried Codfish, Chili Sauce, Catsup, Coffee, Cocoanut, Chocolate, Cocoa, Canned Chowder, Canned Clam Chowder, Canned Cranberry Sauce, Canned and Dried Dates, Canned Fish Chowder, Canned Fruit Juices for Cooking and Baking Purposes, Canned Fruit Butter, Canned Figs, Canned Fruits for Salad, Gelatin, Canned Grapes, Honey, Hominy, Jelly, Jam, Evaporated Milk, Mustard, Molasses, Marshmallow, Macaroni, Mayonnaise, Maple Syrup, Marmalade, Mincemeat, Canned Mixed Vegetables, Nuts in Their Natural State, Noodles, Canned Olives, Olive Oil, Pie Fillers, Pickles, Fruit Preserves, Peanut Butter, Dried Peaches, Dried Pears, Dried Prunes, Dried Peas, Rice, Raisins, Canned and Dried Spaghetti, Spices, Sugar, Canned Succotash, Tea, Tapioca, Canned Tomato Soup, Canned Tomato Purée, Canned Turtle, Tamales, Vinegar, Canned Vegetable Soup, Barley, Bran, Corn Flakes, Corn Meal, Farina, Rolled Oats, Vanilla Extract, Lemon Extract, Almond Extract, Orange Extract, Raspberry Extract (These Extracts Being Food Flavoring Extracts), Bread Flour, Pastry Flour, Buckwheat Flour, Graham Flour, Rye Flour, Pancake Flour, French Dressing, Thousand Island Dressing, Russian Dressing, Corn Oil, Cottonseed Oil, Plum Pudding, Fig Pudding, Mint Sauce, Oriental Sauce, Pepper Sauce, Tabasco Sauce, Worcestershire Sauce, Corn Syrup.
Claims use since Jan. 10, 1927.

244,163. (CLASS 32. FURNITURE AND UPHOLSTERY.) CALIFORNIA WALL BED COMPANY, San Francisco, Calif. Filed May 17, 1926. Serial No. 231,720.

ROL-Bed

For Concealable Beds.
Claims use since Apr. 14, 1924.

TRADE-MARK REGISTRATIONS RENEWED

70,024. THREAD-CUTTING TOOLS, MACHINES, AND DEVICES. Registered July 21, 1908. THE OSTER MANUFACTURING COMPANY, Cleveland, Ohio, a Corporation of Ohio. Renewed July 21, 1928.

70,995. COPING SAWS. Registered October 20, 1908. FRANK P. MAXSON, Chicago, Ill. Renewed October 20, 1928.

71,321. TYPEWRITING MACHINES. Registered November 17, 1908. SUN TYPEWRITER COMPANY, Newark, N. J., a Corporation of New Jersey. Renewed November 17, 1928.

LABELS

REGISTERED JULY 10, 1928.

34,268.—*Title:* CALIFORNIA DREAM. For Fresh Oranges. BRADFORD BROS. INC., Placentia, Calif. Published February 24, 1928.

34,269.—*Title:* DEXTER ARTZILK BOIL-PROOF COLORS. For Embroidery Floss. COLLINGBOURNE MILLS, INC., Elgin, Ill. Published March 7, 1928.

34,270.—*Title:* DE BERARD. For Fresh Grapes. WILFORD H. DEBERARD, doing business as De Berard Grape Growers, Cucamonga, Calif. Published January 10, 1928.

34,271.—*Title:* DE PAREE. For Hair Tonic. WILLIAM GERNER, Chicago, Ill. Published November 4, 1926.

34,272.—*Title:* GOORY-STICKS. For a Food Confection. BENJAMIN F. GOODWIN, New York, N. Y. Published May 19, 1928.

34,273.—*Title:* GREENFIELD'S PUNCH. For Concentrated Beverage. THE GREENFIELD VINTAGE COMPANY, Shreveport, La. Published June 1, 1927.

34,274.—*Title:* ALPA SPECIAL. For Malt Syrup. JOHN HUSAR, doing business as Alpa Malt Extract Company, Chicago, Ill. Published May 1, 1928.

34,275.—*Title:* BOUQUET. For Culinary Flavors. EUGENE LEHRHAUPT & JOSEPH LEHRHAUPT, doing business as Elby Extract Company, New York, N. Y. Published May 16, 1928.

34,276.—*Title:* KILIT. For a Preparation for Killing Bugs, Insects, Etc. HAROLD H. LIPSKY, doing business as Kilit Chemical Company, Baltimore, Md. Published May 10, 1928.

34,277.—*Title:* MT. BAKER BRAND. For Toilet Paper. PACIFIC COAST PAPER MILLS, Bellingham, Wash. Published December 1, 1925.

34,278.—*Title:* DRINK A-BITE-TO-EAT AT 10—2&4 O'CLOCK. For a Soft Drink, Nonalcoholic Beverage. DR. PEPPER COMPANY, Dallas, Tex. Published April 3, 1928.

34,279.—*Title:* PURITAN MALT EXTRACT. For Malt Extract. PURITAN MALT EXTRACT CO., Chicago, Ill. Published May 21, 1928.

34,280.—*Title:* PURITAN MALT BOHEMIAN HOP FLAVORED. For Malt Extract. PURITAN MALT EXTRACT CO., Chicago, Ill. Published May 21, 1928.

34,281.—*Title:* RIALTO MALT, AN ALL BARLEY MALT EXTRACT. For Malt Extract. RIALTO MALT EXTRACT CO., Chicago, Ill. Published May 17, 1928.

34,282.—*Title:* PRIMA BARLEY MALT EXTRACT. For Malt Extract. RIALTO EXTRACT CO., Chicago, Ill. Published May 21, 1928.

34,283.—*Title:* FAITH. For Sheeting. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va. Published January 15, 1928.

34,284.—*Title:* CYCLONE. For Game. LEO S. ROSS, doing business as Cyclone Games Co., Chicago, Ill. Published January 5, 1928.

34,285.—*Title:* CHIGGER-CHASER. For Chigger Powder. VICTOR H. SCHOFFELMAYER, doing business as Chigger-Chole Company, Dallas, Tex. Published April 15, 1928.

34,286.—*Title:* SODERHOLM'S SWEDISH RYE. For Bread. THE SODERHOLM BAKING COMPANY, Bridgeport, Conn. Published May 18, 1928.

34,287.—*Title:* WATONA. For LINOLEUM RUGS. ERNEST M. STANLEY, Hobart, Okla. Published January 1, 1928.

34,288.—*Title:* SUPERB PURE MALT SYRUP. For Malt Syrup. SUPERB MALT EXTRACT CO., Chicago, Ill. Published May 18, 1928.

34,289.—*Title:* VOGUE. For Brassières, Bandettes, Girdles, Girdle and Brassière Combined, Brassière and Corset Combined. VOGUE BRASSIERE MANUFACTURING CO., Newark, N. J. Published February 3, 1928.

34,290.—*Title:* WARD'S CAKES. For Cake. WARD BAKING COMPANY, New York, N. Y. Published May 23, 1924.

34,291.—*Title:* WRIGLEY'S PINK P. K. For Chewing Gum. WM. WRIGLEY JR. COMPANY, Chicago, Ill. Published May 19, 1928.

PRINTS

REGISTERED JULY 10, 1928.

10,989.—*Title:* THE PRICELESS TOUCH OF AN ARTIST. For Venetian Toilet Preparations. ELIZABETH ARDEN, INC., doing business as Elizabeth Arden, New York, N. Y. Published April 20, 1928.

10,990.—*Title:* ELIZABETH ARDEN IS IN PERSONAL TOUCH WITH YOU. For Venetian Toilet Preparations. ELIZABETH ARDEN, INC., doing business as Elizabeth Arden, New York, N. Y. Published May 21, 1928.

10,991.—*Title:* IT'S RIPE TOBACCO. For Cigars. BAYUK CIGARS INCORPORATED, Philadelphia, Pa. Published April 25, 1928.

10,992.—*Title:* FRESH AIR FOR THE SKIN. For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published June 1, 1928.

10,993.—*Title:* WHY DOES UNDERWEAR WEAR OUT? For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published May 26, 1928.

10,994.—*Title:* LET YOUR BODY BREATHE. For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published June 11, 1928.

10,995.—*Title:* BELLOWS ACTION OF B. V. D. For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published June 4, 1928.

10,996.—*Title:* THE COIN-A-DAY HOME SAVINGS BANK. For Savings Banks. COIN COVENANT CORPORATION, Chicago, Ill. Published May 9, 1928.

10,997.—*Title:* FABRICS THEIR ORIGIN AND MANUFACTURE. For Soap. COLGATE & CO., Jersey City, N. J. Published February 15, 1928.

10,998.—*Title:* SOAP ITS ORIGIN MANUFACTURE AND USE. For Soap. COLGATE & CO., Jersey City, N. J. Published February 15, 1928.

10,999.—*Title:* BEAUTY CREATIONS COTY. For Rouge and Lip Stick. COTY, INC., Wilmington, Del., and New York, N. Y. Published June 5, 1928.

11,000.—*Title:* POPULAR IN THE MEN'S WARD—THIS SATISFYING DISH. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published June 1, 1928.

11,001.—*Title:* ARE YOU UNCONSCIOUSLY MAKING YOUR CHILD A VICTIM OF NEGLECT. For Talcum Powder for Nursery and Toilet Use. THE CRYSTAL CHEMICAL COMPANY, INC., New York, N. Y. Published April 18, 1927.

11,002.—*Title:* WHAT AN INFANT'S CRY WOULD TELL YOU, IF IT COULD. For Talcum Powder for Nursery and Toilet Use. THE CRYSTAL CHEMICAL COMPANY, INC., New York, N. Y. Published April 18, 1927.

11,003.—*Title:* IT ISN'T ALWAYS 'TEMPER'. For Talcum Powder for Nursery and Toilet Use. THE CRYSTAL CHEMICAL COMPANY, INC., New York, N. Y. Published April 18, 1927.

11,004.—*Title:* SUPPOSE YOU COULDN'T TALK. For Talcum Powder for Nursery and Toilet Use. THE CRYSTAL CHEMICAL COMPANY, INC., New York, N. Y. Published April 18, 1927.

11,005.—*Title:* ARE YOU A MOTHER WHO GUESSES? For Talcum Powder for Nursery and Toilet Use. THE CRYSTAL CHEMICAL COMPANY, INC., New York, N. Y. Published April 18, 1927.

11,006.—*Title:* THE DANGER THAT LURKS IN AN INFANT'S CRY. For Talcum Powder for Nursery and Toilet Use. THE CRYSTAL CHEMICAL COMPANY, INC., New York, N. Y. Published April 18, 1927.

11,007.—*Title:* THE REAL TORTURE BEHIND AN INFANT'S CRY. For Talcum Powder for Nursery and Toilet Use. THE CRYSTAL CHEMICAL COMPANY, INC., New York, N. Y. Published April 18, 1927.

11,008.—*Title:* MORE THAN A CRY—A WARNING! For Talcum Powder for Nursery and Toilet Use. THE CRYSTAL CHEMICAL COMPANY, INC., New York, N. Y. Published April 18, 1927.

11,009.—*Title:* 66⅔ OF ALL BABIES SUFFER THIS TORTURE—NEEDLESSLY! For Talcum Powder for Nursery and Toilet Use. THE CRYSTAL CHEMICAL COMPANY, INC., New York, N. Y. Published April 18, 1927.

11,010.—*Title:* HIS CRYING PLEADS WITH YOU. For Talcum Powder for Nursery and Toilet Use. THE CRYSTAL CHEMICAL COMPANY, INC., New York, N. Y. Published April 18, 1927.

11,011.—*Title:* THE 'IRRITATION CRY' . . . WATCH FOR IT IN YOUR BABY! For Talcum Powder for Nursery and Toilet Use. THE CRYSTAL CHEMICAL COMPANY, INC., New York, N. Y. Published April 18, 1927.

11,012.—*Title:* POPULAR FICTION UNIT. For Three Magazines Published Every Month—Namely, True Confessions, Screen Secrets, and Love Affairs. FAWCETT PUBLICATIONS, INC., Robbinsdale, Minn., and Chicago, Ill. Published December 12, 1927.

11,013.—*Title:* RIBBONS OF GOLD. For Egg Noodles. GOLD ROLLED FOOD PRODUCTS CO., Chicago, Ill. Published April 13, 1928.

11,014.—*Title:* GOOD — WINGFOOT — YEAR TRUCK TIRES TRACTION AND LONG WEAR. For Tires Composed Wholly or in Part of Rubber. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Published April 5, 1928.

11,015.—*Title:* A GOOD SPLATTER OF HEINZ SALAD CREAM ON THIS CRISP, SUCCULENT SALAD. For Salad Cream. H. J. HEINZ COMPANY, Pittsburgh, Pa. Published May 26, 1928.

11,016.—*Title:* GUESS WHAT—LIFT THE COVER—AHA!—SPAGHETTI. For Cooked Spaghetti in Tomato Sauce with Cheese. H. J. HEINZ COMPANY, Pittsburgh, Pa. Published June 1, 1928.

11,017.—*Title:* THE NEW BOOKS FIRST. LINDNER LIBRARY. For Books, Hats, Stockings, Underwear, Dresses, Gloves, Suits and Coats, Aprons, Uniforms, Evening Gowns, and Wraps. THE LINDNER CO'Y, Cleveland, Ohio. Published May 1, 1928.

11,018.—*Title:* SPICO. For Ice-Cream Confection. EDWARD M. McGOWAN, doing business as Sanitary Package Ice Cream Company, Toledo, Ohio. Published May 21, 1928.

11,019.—*Title:* TEACHING TEXAS TO DRINK A-BITE TO EAT. For Dr. Pepper, a Soft Drink. DR. PEPPER COMPANY, Dallas, Tex. Published April 3, 1928.

11,020.—*Title:* NEW AND DELICIOUS WAYS TO SERVE COCONUT. For Baker's Coconut. POSTUM COMPANY, INCORPORATED, New York, N. Y. Published March 21, 1928.

11,021.—*Title:* FOR SUMMERTIME DRINKS MAKE BAKER'S COCOA SYRUP. For Baker's Cocoa Syrup. POSTUM COMPANY, INCORPORATED, New York, N. Y. Published March 21, 1928.

11,022.—*Title:* POST TOASTIES DOUBLE-CRISP AND FULL OF FLAVOR. For Post Toasties. POSTUM COMPANY, INCORPORATED, New York, N. Y. Published February 21, 1928.

11,023.—*Title:* DELICIOUS! . . . POST TOASTIES WITH FRESH OR CANNED FRUITS. For Post Toasties. POSTUM COMPANY, INCORPORATED, New York, N. Y. Published February 21, 1928.

11,024.—*Title:* COCONUT PIE. For Franklin Baker's Coconut. POSTUM COMPANY, INCORPORATED, New York, N. Y. Published March 21, 1928.

11,025.—*Title:* WITH WALTER BAKER'S CHOCOLATE—THIS CAKE FAVORITE. For Walter Baker's Chocolate. POSTUM COMPANY, INCORPORATED, New York, N. Y. Published March 21, 1928.

11,026.—*Title:* I LOVE THE FLAVOR. For Post Toasties. POSTUM COMPANY, INCORPORATED, New York, N. Y. Published February 21, 1928.

11,027.—*Title:* DEVIL'S FOOD CAKE WITH COCONUT ICING. For Franklin Baker's Coconut. POSTUM COMPANY, INCORPORATED, New York, N. Y. Published March 21, 1928.

11,028.—*Title:* FINE FOOD—RARE FLAVOR. For Walter Baker's Cocoa. POSTUM COMPANY, INCORPORATED, New York, N. Y. Published March 21, 1928.

11,029.—*Title:* WHEN THE RECIPE SAYS CHOCOLATE. For Walter Baker's Chocolate. POSTUM CO., INC., New York, N. Y. Published March 21, 1928.

11,030.—*Title:* DEPENDABLE HEATING SERVICE. For Coal. ROCHESTER COAL MERCHANTS' ASSN., Rochester, N. Y. Published April 6, 1928.

11,031.—*Title:* EVERFRESH. For Egg Preserver. ROLLAND PRODUCTS COMPANY, Detroit, Mich. Published March 1, 1928.

11,032.—*Title:* POINTING A 10,000-POUND GUN AS EASILY AS YOU MIGHT POINT A PISTOL. For S K F Bearings. S. K. F. INDUSTRIES, INC., New York, N. Y. Published June 2, 1928.

11,033.—*Title:* TAKE THAT IRRITATION OUT OF THE MORNING SHAVE. For Shaving Cream. E. R. SQUIBB & SONS, doing business as Squibb's, New York, N. Y. Published April 1, 1928.

11,034.—*Title:* BEFORE YOU BUY A MINERAL OIL IT IS IMPORTANT THAT YOU KNOW THE DISTINCT ADVANTAGES OF SQUIBB'S LIQUID PETROLATUM. For Liquid Petrolatum. E. R. SQUIBB & SONS, New York, N. Y. Published April 1, 1928.

11,035.—*Title:* THE PITY OF IT—For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published April 1, 1928.

11,036.—*Title:* THE CONQUEST OF PAIN. For Ether. E. R. SQUIBB & SONS, New York, N. Y. Published April 7, 1928.

11,037.—*Title:* WHY THEY CALL IT THE DANGER LINE. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published March 25, 1928.

11,038.—*Title:* TO MEN WHO COMPLAIN ABOUT A 'TENDER SKIN.' For Shaving Cream. E. R. SQUIBB & SONS, doing business as Squibb's, New York, N. Y. Published March 18, 1928.

11,039.—*Title:* READ HOW TO GUARD YOUR CHILDREN'S TEETH AND GUMS. For Dental Cream. E. R. SQUIBB & SONS, doing business as Squibb's, New York, N. Y. Published March 18, 1928.

11,040.—*Title:* WHY RISK THIS PAIN? For Dental Cream. E. R. SQUIBB & SONS, doing business as Squibb's, New York, N. Y. Published March 10, 1928.

11,041.—*Title:* BEAUTY CAN BE DESTROYED AT THE DANGER LINE. For Dental Cream. E. R. SQUIBB & SONS, doing business as Squibb's, New York, N. Y. Published March 4, 1928.

11,042.—*Title:* YOUTH AND HEALTH ARE PRICELESS GIFTS. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published March 1, 1928.

11,043.—*Title:* CAN YOU AFFORD TO NEGLECT THIS WARNING? For Dental Cream. E. R. SQUIBB & SONS, doing business as Squibb's, New York, N. Y. Published February 26, 1928.

11,044.—*Title:* BEAUTY AND HEALTH ARE OFTEN LOST AT THE DANGER LINE. For Dental Cream. E. R. SQUIBB & SONS, doing business as Squibb's, New York, N. Y. Published February 12, 1928.

11,045.—*Title:* SQUIBB'S MILK OF MAGNESIA IS A WELCOME RELIEF TO CHILD PATIENTS. For Milk of Magnesia. E. R. SQUIBB & SONS, New York, N. Y. Published May 1, 1928.

11,046.—*Title:* WILL YOU TAKE THE WORD OF 50,000 DENTISTS? For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published April 29, 1928.

11,047.—*Title:* 22 OR 45 IS THERE AN AGE WHEN WOMEN MUST CEASE TO LOOK YOUNG? For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published April 28, 1928.

11,048.—*Title:* SHAVING WILL LEAVE YOUR FACE REFRESHED IF HYDROLYSIS IS CONTROLLED. For Shaving Cream. E. R. SQUIBB & SONS, doing business as Squibb's, New York, N. Y. Published April 22, 1928.

11,049.—*Title:* FAST, EASY SHAVES WITHOUT IRRITATION—BECAUSE HYDROLYSIS IS CONTROLLED. For Shaving Cream. E. R. SQUIBB & SONS, doing business as Squibb's, New York, N. Y. Published April 8, 1928.

11,050.—*Title:* DENTISTS TELL THE THREE FUNDAMENTALS OF MOUTH HYGIENE. For Dental Cream. E. R. SQUIBB & SONS, doing business as Squibb's, New York, N. Y. Published April 8, 1928.

11,051.—*Title:* SQUIBB'S MILK OF MAGNESIA IS MADE AND ADVERTISED IN STRICT ACCORDANCE WITH THE IDEALS OF THE MEDICAL PROFESSION. For Milk of Magnesia. E. R. SQUIBB & SONS, New York, N. Y. Published May 5, 1928.

11,052.—*Title:* THE RISE OF PREVENTIVE MEDICINE. For Medicine. E. R. SQUIBB & SONS, New York, N. Y. Published February 11, 1928.

11,053.—*Title:* IT IS HYDROLYSIS THAT CAUSES SO MANY MEN TO DREAD SHAVING. For Shaving Cream. E. R. SQUIBB & SONS, doing business as Squibb's, New York, N. Y. Published April 29, 1928.

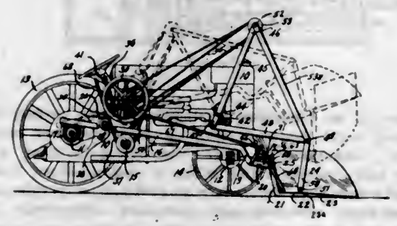
11,054.—*Title:* EVERY TIME YOU EAT, THE DANGER LINE IS THREATENED. For Dental Cream. E. R. SQUIBB & SONS, doing business as Squibb's, New York, N. Y. Published May 6, 1928.

11,055.—*Title:* GUILD SET TILES. For Guild Set Tiles. THE TILE & MANTEL CONTRACTORS' ASSOCIATION OF AMERICA, Wilmington, Del. Published May 12, 1928.

REISSUES

JULY 10, 1928.

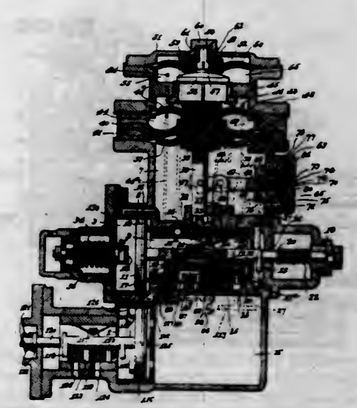
17,025. SCOOP ATTACHMENT FOR TRACTION ENGINES. ALEXANDER LAURIE, Chicago, Ill., assignor to Herbert F. Lessmann, Des Moines, Iowa. Filed Dec. 10, 1925. Serial No. 74,641. Original No. 1,477,136, dated Dec. 11, 1923, Serial No. 503,645, filed Sept. 27, 1921. 8 Claims. (Cl. 214—140.)



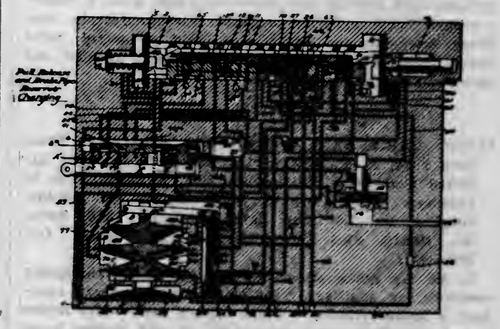
1. The combination of a tractor having supporting axles and a drive member, with a scoop, arms pivoted to the rear axles and also pivoted centrally beneath the said scoop, a frame pivoted to the forward end of said tractor at a point considerably above the said scoop, said frame being provided with a pivot member overhanging the central portion of said scoop, links pivoted to said overhanging pivot member and with said scoop, means driven by said drive member for swinging said frame to elevate and lower said overhanging pivot member, the said links being designed to rest substantially in a perpendicular position when either elevated or lowered, means for dumping said scoop and means for returning the scoop to its closed position.

17,026. AIR-BRAKE APPARATUS. SPENCER G. NEAL, New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del., a Corporation of Delaware. Filed May 7, 1927. Serial No. 189,732. Original application filed Sept. 18, 1918, Serial No. 254,553. Renewed Mar. 3, 1922, Serial No. 540,919. Original No. 1,434,746, dated Nov. 7, 1922. 51 Claims. (Cl. 303—27.)

1. An air brake apparatus comprising an emergency reservoir, a brake pipe reservoir, a brake cylinder, a brake pipe and a triple valve, means in said triple valve subject to brake pipe pressure and brake pipe reservoir pressure and operating upon a reduction in brake pipe pressure to open communication between the brake pipe reservoir and the brake cylinder, said communication being closed upon an equalization of pressures in the brake pipe and the brake pipe reservoir and means in said triple valve operated by emergency reservoir pressure upon a reduction of brake pipe pressure to place the brake pipe in communication with the brake cylinder, said means closing said communication when the brake cylinder pressure and the reduced brake pipe pressure dominate the emergency reservoir pressure.



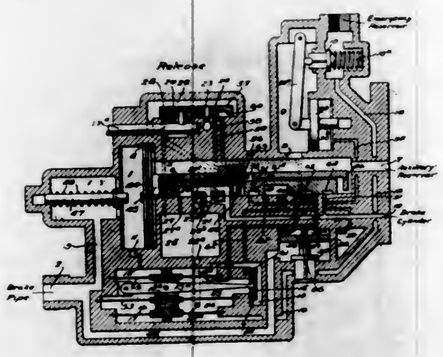
17,027. AIR-BRAKE APPARATUS. SPENCER G. NEAL, New York, and WILLIAM ASTLE, Brooklyn, N. Y., and EDWARD P. WILSON, East Orange, N. J., assignors to Automatic Straight Air Brake Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 3, 1927. Serial No. 210,440. Original application filed Oct. 9, 1924, Serial No. 742,560. Renewed July 13, 1926. Original No. 1,601,578, dated Sept. 28, 1926. 66 Claims. (Cl. 303—27.)



3. A triple valve in accordance with claim 1, combined with means whereby the main slide valve in emergency position connects the brake pipe reservoir and the

emergency reservoir to the brake cylinder and cuts off brake pipe reservoir from the brake pipe, and means whereby the main and supplemental slide valves in release position connect the emergency reservoir to the brake pipe for a quick release of the brakes.

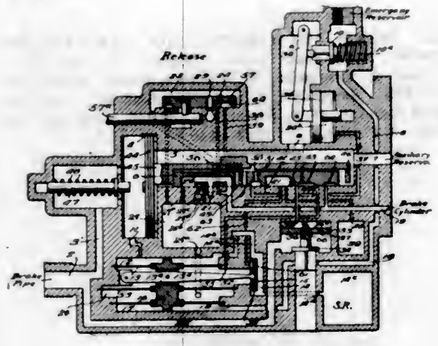
17,028. AIR-BRAKE APPARATUS. SPENCER G. NEAL, New York, N. Y.; assignor to Automatic Straight Air Brake Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 3, 1927. Serial No. 210,441. Original No. 1,601,582, dated Sept. 28, 1926, Serial No. 9,789, filed Feb. 17, 1925. 56 Claims. (Cl. 303—74.)



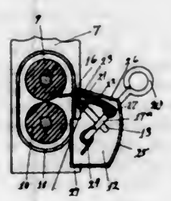
5. An air brake apparatus comprising an emergency reservoir, an auxiliary reservoir, a brake cylinder, a brake pipe, a main valve device and a secondary valve device both of said devices being operated by a reduction of brake pipe pressure, the main valve device closing communication between the brake pipe and auxiliary reservoir and placing the auxiliary reservoir in communication with a brake cylinder and closing said brake cylinder communication upon an equalization of brake pipe and auxiliary reservoir pressures, whereby a certain volume of air will be discharged from the auxiliary reservoir into the brake cylinder for a given brake pipe reduction, said main valve device also operable upon a sudden reduction of brake pipe pressure to place the emergency reservoir and auxiliary reservoir in communication with the brake cylinder for an emergency application of the brakes, the secondary valve device placing the brake pipe in communication with the brake cylinder and closing said communication when a predetermined brake cylinder pressure is secured from auxiliary reservoir and brake pipe, said secondary valve device being controlled by brake pipe, brake cylinder and emergency reservoir pressures.

17,029. AIR-BRAKE APPARATUS. SPENCER G. NEAL, New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 3, 1927. Serial No. 210,442. Original No. 1,601,583, dated Sept. 28, 1926, Serial No. 10,816, filed Feb. 21, 1925. 28 Claims. (Cl. 303—46.)

5. An air brake apparatus comprising an emergency reservoir, an auxiliary reservoir, a supplementary reservoir, a brake cylinder, a brake pipe, a main valve device and a secondary valve devic both of said devices being operated by a reduction of brake pipe pressure, the main valve device closing communication between the brake pipe and auxiliary reservoir and placing the auxiliary reservoir in communication with the brake cylinder and closing said brake cylinder communication upon an equalization of brake pipe and auxiliary reservoir pressures, whereby a certain volume of air will be discharged from the auxiliary reservoir into the brake cylinder for a given brake pipe reduction, said main valve device also operable upon a sudden reduction of brake pipe pressure to place the emergency reservoir and auxiliary reservoir in communication with the brake cylinder for an emergency application of the brakes, the secondary valve device placing the supplementary reservoir in communication with the brake cylinder and closing said communication when a predetermined brake cylinder pressure is secured from auxiliary reservoir and supplementary reservoir, said secondary valve device being controlled by brake pipe, brake cylinder and emergency reservoir pressures.



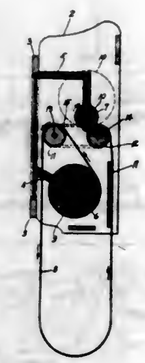
17,030. SAFETY DEVICE FOR CLOTHES WRINGERS. LESTER S. GUNDERMAN, Pittsburgh, Pa. Filed Mar. 20, 1926. Serial No. 96,365. Original No. 1,518,919, dated Dec. 9, 1924, Serial No. 664,337, filed Sept. 24, 1923. 15 Claims. (Cl. 68—32.)



1. A feeding device for wringers including a vertically arranged guard plate, and an arcuately movable feed plate associated therewith and adapted to be rocked toward and away from the wringer to which the device is attached, said device being adapted to normally lie adjacent the guard plate when it is in inoperative position.

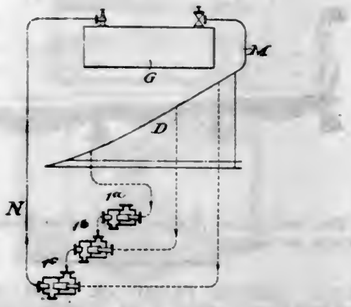
17,031. TOWEL CABINET. GEORGE ADOLPH STEINER, Salt Lake City, Utah, assignor to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed Jan. 30, 1928. Serial No. 250,647. Original No. 1,596,125, dated Aug. 17, 1926, Serial No. 526,574, filed Jan. 3, 1922. 10 Claims. (Cl. 312—38.)

10. A towel cabinet having mechanism therein for keeping separated the front clean portion of a towel web from the rear soiled portion, comprising a support for a towel supply and a soiled towel take up roll, two feed rolls geared together to move in unison, one feed roll approximately on a level with and back of the other in the cabinet, the rear feed roll being in contact with and supporting the take up roll the front feed roll being in the front portion of the cabinet and in contact with



the clean portion of the towel so that the web of toweling may hang down therefrom and the clean portion thereof be removed from the soiled portion of the towel web a maximum distance in said cabinet.

17,032. METHOD AND MEANS FOR DELIVERING PREHEATED FEED WATER. JOHANN STUMPF, Berlin, Germany. Filed Aug. 25, 1927. Serial No. 215,489. Original No. 1,616,239, dated Feb. 1, 1927, Serial No. 33,092, filed May 27, 1925, and in Germany May 31, 1924. 20 Claims. (Cl. 103—265.)



1. The method of delivering preheated feedwater, which consists in utilizing the injection action of exhaust steam operating for different stages, the said exhaust steam being of different pressures for the different stages.

DESIGNS

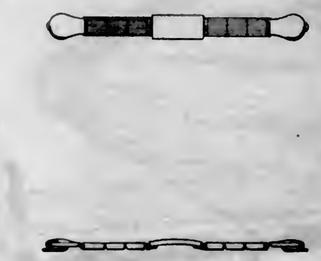
JULY 10, 1928.

75,709. DECORATIVE PANEL FOR METAL WORK. OSCAR B. BACH, New York, N. Y. Filed Nov. 10, 1927. Serial No. 24,073. Term of patent 3½ years.



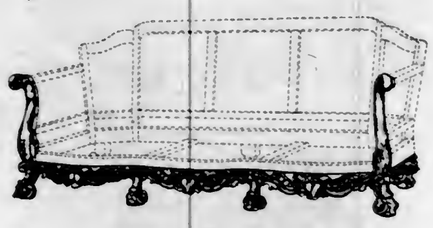
The ornamental design for a decorative panel for metal work, as shown.

75,710. SHOE STRAP. FREDERICK A. BALLOU, Nayatt, and ROGERS T. STAFFORD, East Providence, R. I., assignors to B. A. Ballou & Co., Inc., Providence, R. I., a Corporation of Rhode Island. Filed May 7, 1927. Serial No. 21,884. Term of patent 14 years.



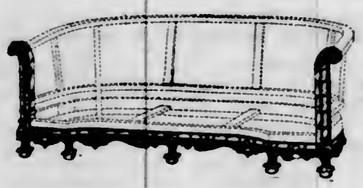
The ornamental design for a shoe strap, substantially as shown and described.

75,711. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illinois. Filed May 19, 1928. Serial No. 26,769. Term of patent 3½ years.



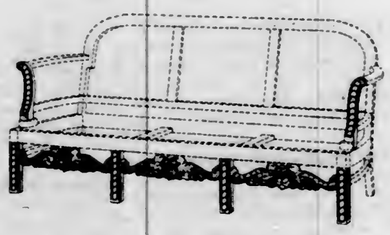
The ornamental design for a settee frame or similar article as shown.

75,712. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illinois. Filed May 14, 1928. Serial No. 26,669. Term of patent 3½ years.



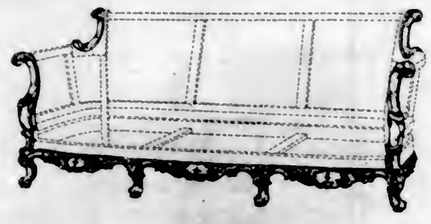
The ornamental design for a settee frame or similar article, as shown.

75,713. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illinois. Filed May 19, 1928. Serial No. 26,770. Term of patent 3½ years.



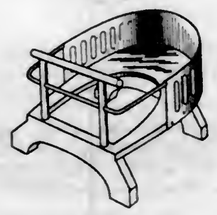
The ornamental design for a settee frame, or similar article as shown.

75,714. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illinois. Filed May 14, 1928. Serial No. 26,671. Term of patent 3½ years.



The ornamental design for a settee frame, or similar article as shown.

75,715. BABY WALKER. EDWARD BOEHM, Duluth, Minn. Filed Jan. 26, 1928. Serial No. 25,042. Term of patent 7 years.



The ornamental design for a baby walker, as shown.

75,716. CURTAIN AND PORTIÈRE ROD. JAMES H. BOYE, Chicago, Ill. Filed Mar. 5, 1928. Serial No. 25,667. Term of patent 7 years.



The ornamental design for a curtain and portière rod, as shown.

75,717. CURTAIN AND PORTIÈRE ROD. JAMES H. BOYE, Chicago, Ill. Filed Mar. 5, 1928. Serial No. 25,669. Term of patent 7 years.



The ornamental design for a curtain and portière rod, as shown.

75,718. CURTAIN AND PORTIÈRE ROD. JAMES H. BOYE, Chicago, Ill. Filed Mar. 5, 1928. Serial No. 25,670. Term of patent 7 years.



The ornamental design for a curtain and portière rod, as shown.

75,719. LAPEL PIN OR THE LIKE. JOHN RALPH COLGAN, Kansas City, Mo. Filed Feb. 9, 1928. Serial No. 25,296. Term of patent 14 years.



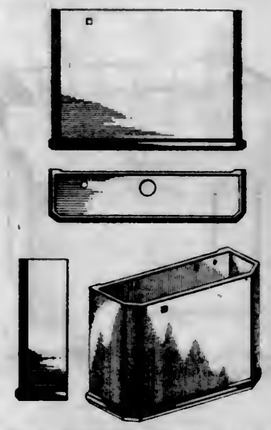
The ornamental design for a lapel pin or the like, as shown.

75,720. JUICE EXTRACTOR. THOMAS F. COONEY, West Haven, Conn. Filed May 1, 1928. Serial No. 26,523. Term of patent 14 years.



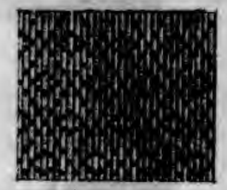
The ornamental design for a juice extractor, substantially as shown.

75,721. CLOSET TANK. JOHN B. COXON, Kokomo, Ind., assignor to Kokomo Sanitary Pottery Company, Kokomo, Ind. Filed Sept. 21, 1926. Serial No. 19,137. Term of patent 14 years.



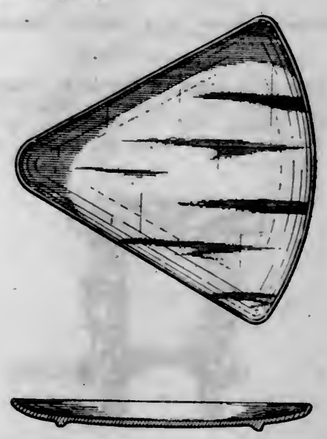
The ornamental design for a closet tank, as shown and described.

75,722. PILE FABRIC. HUGO PAUL DICK, Lowell, Mass., assignor to Merrimack Manufacturing Company, Lowell, Mass., a Corporation of Massachusetts. Filed Dec. 8, 1926. Serial No. 19,966. Term of patent 3½ years.



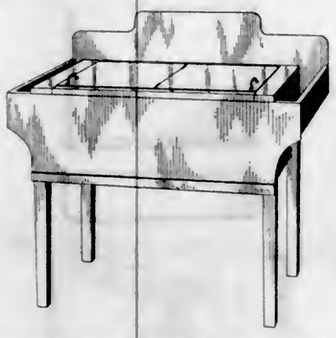
The ornamental design for a pile fabric as shown.

75,723. PIE PLATE. PHILIP C. ENGEL, Minneapolis, Minn. Filed Nov. 13, 1926. Serial No. 19,717. Term of patent 7 years.



The ornamental design for a pie plate, as shown.

75,724. DISPENSING CABINET FOR BOTTLED BEVERAGES. LEONARD G. GRAY, Decatur, Ill. Filed Feb. 24, 1927. Serial No. 20,873. Term of patent 14 years.



The ornamental design for a dispensing cabinet for bottled beverages, as shown.

75,725. UMBRELLA STAND. EMIL HAUSER, New York, N. Y. Filed Feb. 27, 1928. Serial No. 25,600. Term of patent 3½ years.



The ornamental design for an umbrella stand as shown.

75,726. TABLE OR SIMILAR ARTICLE. JOSEPH JOHN HEYMAN, Chicago, Ill., assignor to Milano Furniture Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 13, 1928. Serial No. 26,308. Term of patent 3½ years.



The ornamental design for a table or similar article as shown.

75,727. TABLE OR SIMILAR ARTICLE. JOSEPH JOHN HEYMAN, Chicago, Ill., assignor to Milano Furniture Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 20, 1928. Serial No. 26,399. Term of patent 3½ years.



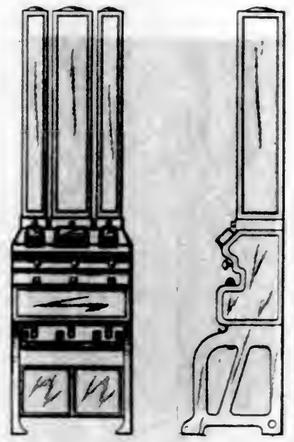
The ornamental design for a table or similar article as shown.

75,728. TABLE OR SIMILAR ARTICLE. JOSEPH JOHN HEYMAN, Chicago, Ill., assignor to Milano Furniture Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 20, 1928. Serial No. 26,400. Term of patent 3½ years.



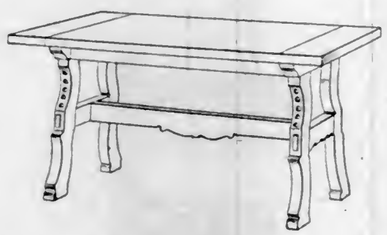
The ornamental design for a table or similar article as shown.

75,729. VENDING-MACHINE CASING. SHERWOOD HINDS, Galesburg, Mich. Filed Oct. 16, 1925. Serial No. 15,146. Term of patent 8½ years.



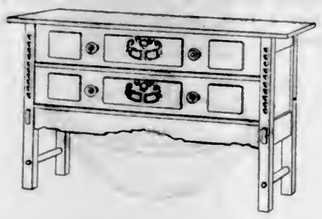
The ornamental design for a vending machine casing substantially as shown.

75,730. TABLE. GEOFFREY HOLT, Los Angeles, Calif. Filed Apr. 7, 1928. Serial No. 26,166. Term of patent 7 years.



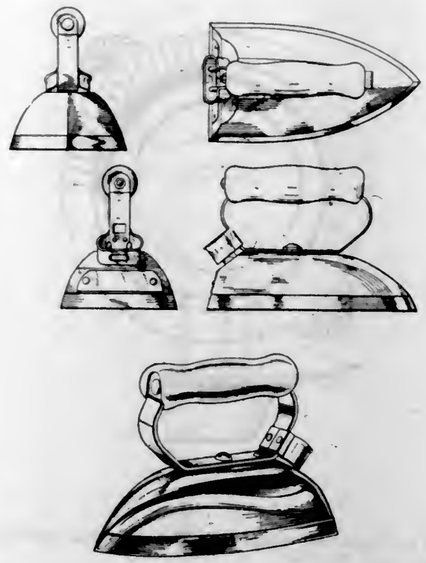
The ornamental design for a table as shown.

75,731. BUFFET. GEOFFREY HOLT, Los Angeles, Calif. Filed Apr. 7, 1928. Serial No. 26,167. Term of patent 7 years.



The ornamental design for a buffet as shown.

75,732. ELECTRIC SMOOTHING IRON. CHARLES T. JOHNSON-VEA, Dover, Ohio, assignor to The Dover Manufacturing Company, Dover, Ohio, a Corporation of Ohio. Filed June 19, 1926. Serial No. 18,095. Term of patent 14 years.



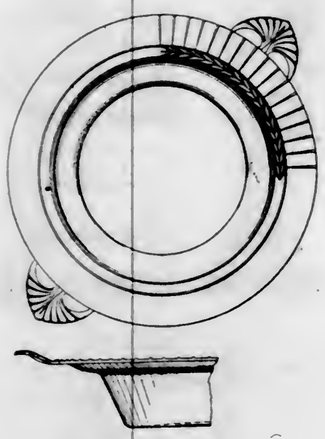
The ornamental design for an electric smoothing iron as shown and described.

75,733. DISH OR SIMILAR ARTICLE. ALFRED G. KINTZ, Wallingford, Conn., assignor to International Silver Company, Meriden, Conn., a Corporation of New Jersey. Filed Apr. 28, 1928. Serial No. 26,496. Term of patent 7 years.



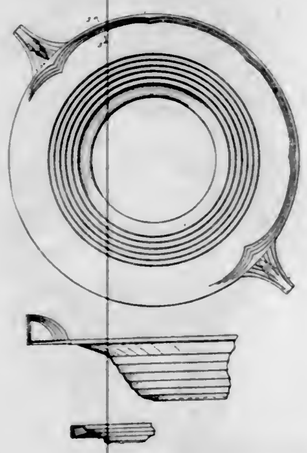
The ornamental design for a dish or similar article, as shown and described

75,734. DISH OR SIMILAR ARTICLE. ALFRED G. KINTZ, Wallingford, Conn., assignor to International Silver Company, Meriden, Conn., a Corporation of New Jersey. Filed Apr. 28, 1928. Serial No. 26,497. Term of patent 7 years.



The ornamental design for a dish or similar article, as shown and described.

75,735. DISH OR SIMILAR ARTICLE. ALFRED G. KINTZ, Wallingford, Conn., assignor to International Silver Company, Meriden, Conn., a Corporation of New Jersey. Filed Apr. 28, 1928. Serial No. 26,498. Term of patent 7 years.



The ornamental design for a dish or similar article, as shown and described.

75,736. TEXTILE FABRIC. ERNEST KIRCHHOFF, Great Kills, N. Y., assignor to Rousmaniere, Williams & Co., Boston, Mass., a Partnership consisting of Frank H. Gage, George G. Allen, George A. Lapham, and Richard A. Harrington. Filed Feb. 23, 1928. Serial No. 25,532. Term of patent 7 years.



The ornamental design for a textile fabric, as shown.

75,737. STOCKING. WILLIAM LAUBER, Meadowbrook, Pa. Filed July 12, 1927. Serial No. 22,734. Term of patent 14 years.



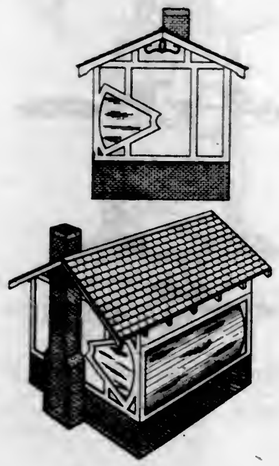
The ornamental design for a stocking, as shown.

75,738. SOUP BOWL. KARL LICKHARD, New York N. Y. Filed Nov. 4, 1927. Serial No. 24,001. Term of patent 3½ years.



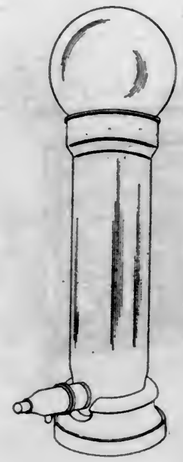
The ornamental design for a soup bowl, as shown.

75,739. CASING FOR ADVERTISING DEVICE. EDWIN O. LITTLE, Aledo, Ill. Filed Feb. 23, 1928. Serial No. 25,541. Term of patent 14 years.



The ornamental design for a casing for advertising device as shown.

75,740. BEVERAGE COOLER. FRANK L. LOOK, Lamanda Park, Calif. Filed Feb. 8, 1928. Serial No. 25,280. Term of patent 3½ years.



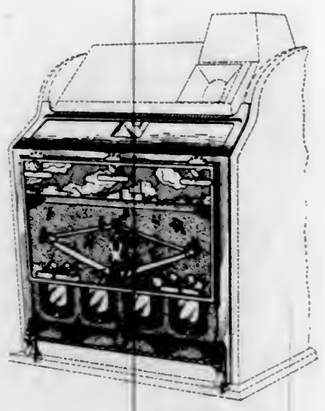
The ornamental design for a beverage cooler as shown.

75,741. BOTTLE. GEORGE N. MAS, Washington, D. C., assignor to American Ornamental Bottle Corporation, Lynchburg, Va., a Corporation of Virginia. Filed Dec. 29, 1926. Serial No. 20,220. Term of patent 3½ years.



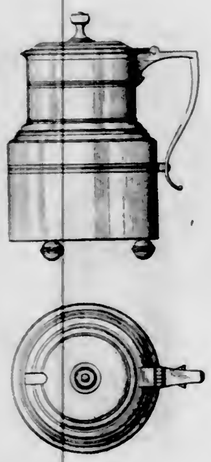
The ornamental design for a bottle, as shown.

75,742. FRONT PLATE FOR A VENDING-MACHINE CABINET. FRED L. MILLS, Oak Park, Ill., assignor to Milk Novelty Company, Chicago, Ill., a Corporation of Illinois. Filed July 25, 1927. Serial No. 22,865. Term of patent 14 years.



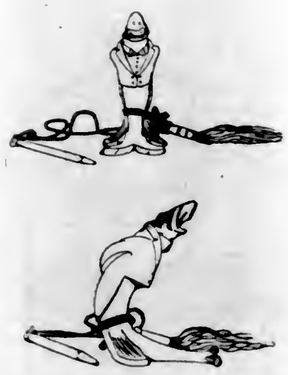
The ornamental design for a front plate for a vending machine cabinet, as shown.

75,743. TANKARD. HENRY W. MOORE, Hingham, Mass., assignor to Dudley M. Baker, doing business as Cape Cod Shop, New York, N. Y. Filed Mar. 29, 1928. Serial No. 26,071. Term of patent 14 years.



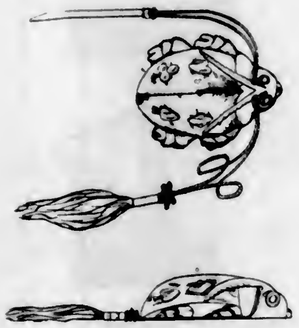
The ornamental design for a tankard as shown.

75,744. PENCIL HOLDER. FRANCIS L. MORGAN, Burlingame, Calif. Filed July 20, 1927. Serial No. 22,817. Term of patent 3½ years.



The ornamental design for a pencil holder, as shown.

75,745. PENCIL HOLDER. FRANCIS L. MORGAN, Burlingame, Calif. Filed July 20, 1927. Serial No. 22,819. Term of patent 3½ years.



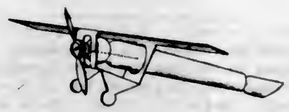
The ornamental design for a pencil holder, as shown.

75,746. READING LAMP. HENRY M. PETERS, Chicago, Ill., assignor to Faries Manufacturing Company, Decatur, Ill. Filed Dec. 10, 1927. Serial No. 24,442. Term of patent 3½ years.



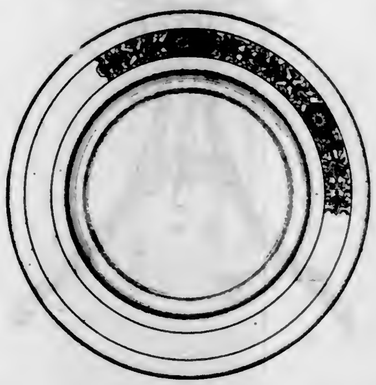
The ornamental design for a reading lamp, as shown.

75,747. PERFUME BOTTLE OR SIMILAR CONTAINER. JOHN POPPER, Montreal, Quebec, Canada. Filed Jan. 21, 1928. Serial No. 24,977. Term of patent 7 years.



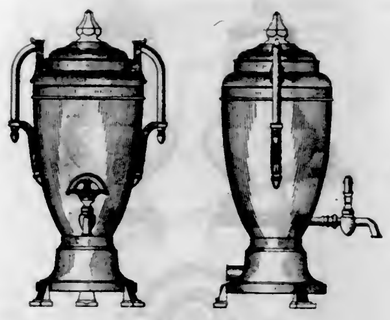
The ornamental design for a perfume bottle or similar container, as shown.

75,748. PLATE OR SIMILAR ARTICLE. HEINRICH RAMPFEL, Lakewood, N. J., assignor to Nathan Straus & Sons, Inc., New York, N. Y., a Corporation of New York. Filed May 10, 1928. Serial No. 26,623. Term of patent 14 years.



The ornamental design for a plate or similar article substantially as shown and described.

75,749. COFFEE PERCOLATOR. HOWARD H. SCHOTT, Rochester, N. Y., assignor to Robeson-Rochester Corporation, Rochester, N. Y., a Corporation of New York. Filed Mar. 28, 1928. Serial No. 26,038. Term of patent 7 years.



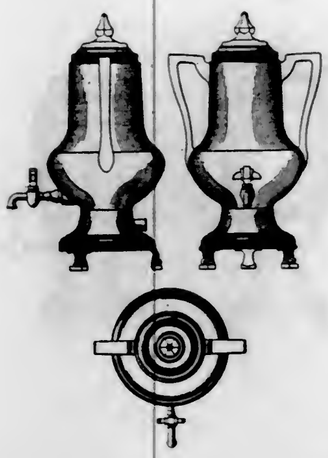
The ornamental design for a coffee percolator, as shown.

75,750. WAFFLE IRON. HOWARD H. SCHOTT, Rochester, N. Y., assignor to Robeson-Rochester Corporation, Rochester, N. Y., a Corporation of New York. Filed Mar. 28, 1928. Serial No. 26,039. Term of patent 7 years.



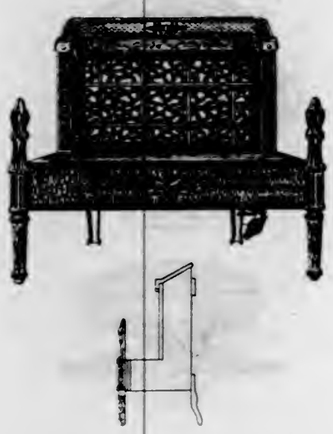
The ornamental design for a waffle iron, as shown.

75,751. COFFEE PERCOLATOR. HOWARD H. SCHOTT, Rochester, N. Y., assignor to Robeson-Rochester Corporation, Rochester, N. Y., a Corporation of New York. Filed Mar. 28, 1928. Serial No. 26,041. Term of patent 7 years.



The ornamental design for a coffee percolator as shown.

75,752. GAS HEATER. WILLIAM L. SHARP, Steubenville, Ohio, assignor to The Ohio Foundry and Manufacturing Company, Steubenville, Ohio, a Corporation of Ohio. Filed Mar. 8, 1928. Serial No. 25,764. Term of patent 7 years.



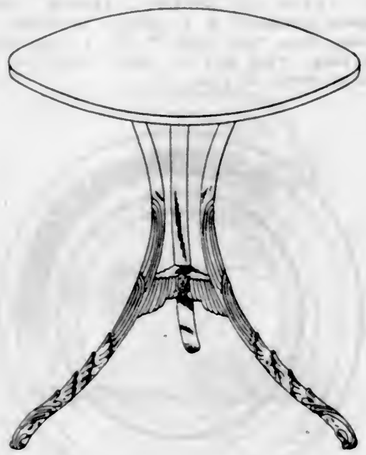
The ornamental design for a gas heater, as shown.

75,753. BOOK END. HARRY L. STEBB, Rock Island, Ill. Filed June 30, 1927. Serial No. 22,622. Term of patent 3½ years.



The ornamental design for a book end as shown.

75,754. TABLE. LEWIS E. WACKERLE, Waukegan, Ill., assignor to Chicago Hardware Foundry Company, North Chicago, Ill., a Corporation of Illinois. Filed May 3, 1927. Serial No. 21,848. Term of patent 14 years.



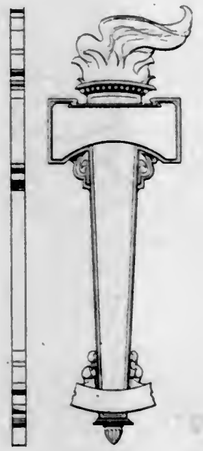
The ornamental design for a table, as shown.

75,755. ELECTRIC TABLE LAMP. JOHN P. WEISS, South Bend, Ind. Filed Mar. 15, 1928. Serial No. 25,871. Term of patent 7 years.



The ornamental design for an electric table lamp as shown.

75,756. ADVERTISING SIGN. JOSEPH A. WESLEY, Chicago, Ill., assignor to Lu-Mi-Nus Signs, Inc., Chicago, Ill., a Corporation of Illinois. Filed Dec. 7, 1927. Serial No. 24,403. Term of patent 7 years.



The ornamental design for an advertising sign, as shown.

75,757. BOUDOIR SLIPPER. HERMAN WILHELM, New York, N. Y. Filed Mar. 15, 1928. Serial No. 25,868. Term of patent 7 years.



The ornamental design for a boudoir slipper, substantially as shown.

75,758. CARPET. NOBLE W. WILLIAMS, Philadelphia, Pa., assignor to Hardwick & Magee Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 21, 1928. Serial No. 26,413. Term of patent 3½ years.



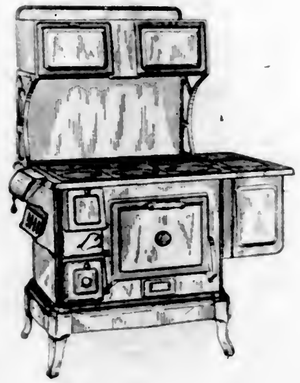
The ornamental design for a carpet, substantially as shown.

75,759. PLATE OR SIMILAR ARTICLE. WALTER STANLEY WOODMAN, Macclesfield, England, assignor to Meakin & Ridgway, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 5, 1928. Serial No. 26,139. Term of patent 14 years.



The ornamental design for a plate or similar article as shown and described.

75,760. RANGE. HENRY F. ZARTH, Shakopee, Minn., assignor to American Range Corporation, Shakopee, Minn. Filed Feb. 11, 1927. Serial No. 20,715. Term of patent 7 years.

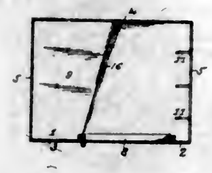


The ornamental design for a range, as shown and described.

PATENTS

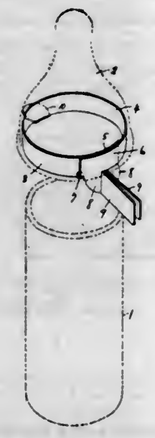
GRANTED JULY 10, 1928.

1,676,235. CABINET AND LOCKER. FRANK ALBACH, St. Louis, Mo., assignor to Fred Medart Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed June 20, 1927. Serial No. 199,964. 3 Claims. Cl. 312—106.)



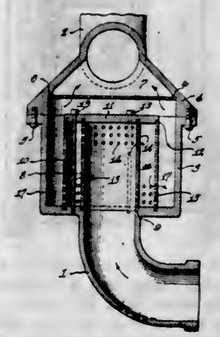
1. In a locker of the type described, the combination of a rectangular enclosing casing comprising a front wall, side walls, a rear wall and top and bottom walls, the front wall having a doorway arranged to one side of the wall to provide a narrow vertical jamb at one side of the doorway and a wide vertical jamb at the other side, and a plurality of shelves having a trapezoidal form, with the forward and narrow end of each shelf having a width approximating the width of the aforesaid wide jamb and attached to the inner face of same, one side edge and a rear edge of each shelf having attachment to a side and rear wall of the locker casing, and the other edge of each shelf having an oblique position in said casing, the combination providing a clear vertical storage space between the plurality of shelves and a remote side wall of the casing of a maximum capacity in a minimum width of the casing.

1,676,236. NIPPLE APPLICATOR. FREDRICK A. ARMSTRONG, Kirksville, Mo. Filed Mar. 14, 1927. Serial No. 175,230. 2 Claims. (Cl. 215—11.)



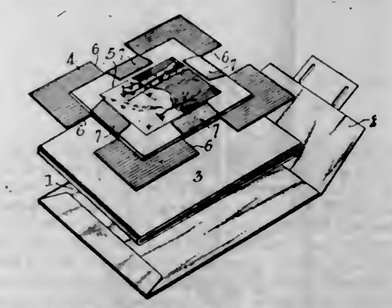
1. A nipple applicator and expander of the class described, comprising a flat expansible metal band of split form having its ends disposed in slidable overlapping relation, handles carried by said overlapping ends, connecting means between the overlapping ends, and means on one side of the band to facilitate extraction from the nipple after it is in position on the bottle.

1,676,237. MIXING DEVICE. JOHN H. BAKER, Royal Oak, Mich. Filed Nov. 18, 1926. Serial No. 149,056. 1 Claim. (Cl. 48—180.)



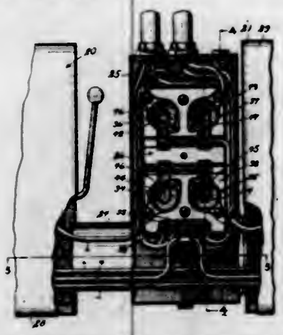
A mixing device of the character described comprising a pipe having an enlarged upper end forming a casing providing a chamber, a manifold formed with a cap for said casing to close the upper open end thereof, said cap being formed with an interior annular seat, a perforate disk member seated upon and secured to said seat, an inner tube concentric with the opening of said pipe into said chamber and forming an upward extension of the pipe axially of the chamber, a second tube of greater diameter than the first tube and of lesser diameter than the casing arranged axially of the center tube, said tubes being seated upon the bottom of said casing, and a disk secured upon the upper ends of said tubes to close the same and clamp said tubes in concentric relation between said disk and bottom of said casing, said inner tube being formed with openings adjacent said disk affording communication between the interior thereof and the annular space between the tubes, and said outer tube being formed with openings near its lower end to afford communication between the lower end of the annular space between the tubes and the annular space between said outer tube and casing wall.

1,676,238. PACKAGE FOR PHOTOGRAPHIC MOUNTS. HAROLD LEWIS BATTY, West Croydon, England, assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 29, 1926, Serial No. 98,323, and in Great Britain Jan. 12, 1926. 4 Claims. (Cl. 229—87.)



1. As an article of manufacture, a stiff, rectangular flat container, a sheet separate from said container and fitting snugly within said container and having tabs adapted to be bent over the central part of the sheet to hold a card in position thereon.

1,676,239. HOUSING CONSTRUCTION. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 11, 1923. Serial No. 644,564. 9 Claims. (Cl. 247—2.)



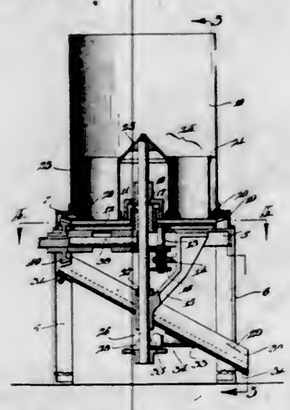
1. The combination with a pair of sealed service boxes, of a housing comprising a passageway for the passage of the line wires from one box to the other and comprising also a box opening into the side of said passageway for the branch overload protective devices having an unsealed closure.

1,676,240. RADIO SIGNALING SYSTEM. HERMAN A. AFFEL, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 31, 1922. Serial No. 585,435. 7 Claims. (Cl. 250—33.)



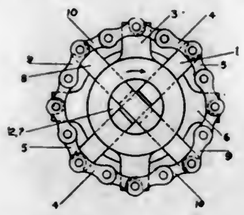
1. An antenna having inductances connected serially therein at predetermined points, the distance between successive inductances diminishing in the direction away from the point of a connection of terminal apparatus with the said antenna.

1,676,241. VEGETABLE SLICER. CHARLES H. AYARS, Salem, N. J., assignor to Ayars Machine Company, Salem, N. J., a Corporation of New Jersey. Filed Feb. 12, 1927. Serial No. 167,658. 3 Claims. (Cl. 146—167.)



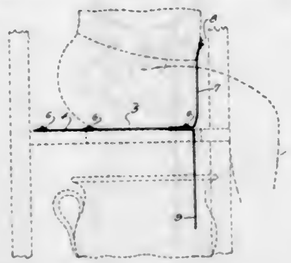
2. A slicing machine including a base plate, legs supporting the base plate, a knife mounted on the base plate, a hub formed on the base plate, a hopper carried by the hub, a vertical shaft fixed to the hopper, a cam track carried by the shaft, a screen hinged to the legs, a roller carried by the screen and engaging the cam track, and means to rotate the hopper.

1,676,242. FLEXIBLE SHAFT COUPLING. GEORGE M. BARTLETT, Indianapolis, Ind. Filed Aug. 25, 1925. Serial No. 52,439. 2 Claims. (Cl. 64—95.)



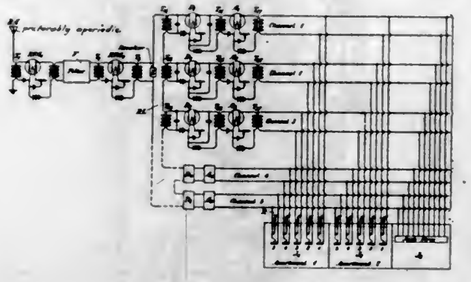
1. In a flexible shaft coupling, the combination of two shaft ends in general alinement, two intermediate members, two pairs of chain sections connecting one shaft end to the two intermediate members respectively, and two pairs of chain sections connecting the other shaft end to the two intermediate members respectively; the two chain sections of each pair being on opposite sides of the general axis of the coupling and extending circumferentially in the same direction from the intermediate member, the chain sections of one pair associated with each shaft end extending in the opposite circumferential direction from the chain sections of the other pair connected with that shaft end, so that one pair of the chain sections for each shaft end is always in tension regardless of the direction of torque between the two shaft ends; and the line joining the middle points of the chain sections of one pair connected to an intermediate member being circumferentially displaced from the line joining the middle points of the links of the other pair connected to that intermediate member, no two consecutive chain sections being in alinement, and the ends of the chain sections being flexibly connected with the shaft ends in such a manner as to permit motion in the direction of the shaft axis.

1,676,243. SEAT COVER FOR INFANTS' TOILETS. GERTRUDE M. BERENTSEN, Wauwatosa, Wis. Filed July 15, 1927. Serial No. 206,073. 1 Claim. (Cl. 4—243.)



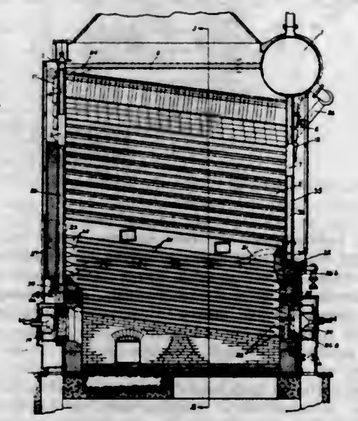
A seat cover for toilets of a flexible, waterproof material, which yieldingly sags within the opening of the toilet seat to cushion the user, comprising a main seat portion having a central opening considerably smaller than the opening of the toilet seat, and having a front upper flap, means on the main seat portion for securing it to the toilet seat, means on the upper flap for securing it to a garment of a user, and a front lower flap attached at its inner end to the main seat portion and adapted to extend vertically toward the toilet receptcle.

1,676,244. MULTIPLE-CHANNEL RADIORECEIVER. OTTO B. BLACKWELL, Plandome, N. Y., and DE LOSS K. MARTIN, West Orange, N. J., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 11, 1924. Serial No. 755,278. 5 Claims. (Cl. 250—9.)



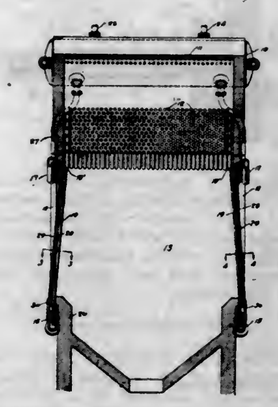
1. A multiple channel radio receiver comprising an antenna common to the channels and substantially aperiodic over the frequency range employed by the channels, a radio frequency amplifier common to the channels, apparatus for selecting the channels and detecting signals from the channels for transmission to listeners, and means for restricting the range of frequencies to be selected by said apparatus comprising a filter common to all of the channels designed to substantially suppress all frequencies above a preassigned upper limit.

1,676,245. WATER SCREEN. CARL A. BRANDT, Great Neck, N. Y. Filed Oct. 24, 1925. Serial No. 64,623. 9 Claims. (Cl. 122—235.)



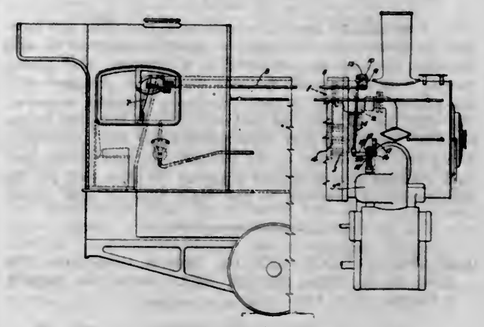
1. A water screen comprising a plurality of water tubes circular in cross section and arranged in closely spaced parallel relation to form a substantially unbroken water wall, said tubes being divided into groups with the tubes of each group integrally joined at their ends to form units having single tubular end portions, the width of the tube group of each unit being greater than the diameter of either end portion of the unit and the internal cross-sectional area of each end portion being not less than the total internal cross-sectional area of the corresponding tube group, and means forming part of a water circulating system to which the end portions of said units are connected.

1,676,246. FURNACE-WALL CONSTRUCTION. BENJAMIN BROIDO, New York, N. Y., assignor to The Superheater Company, New York, N. Y. Filed June 30, 1925. Serial No. 40,605. 8 Claims. (Cl. 122—235.)



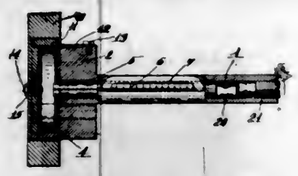
1. In combination a boiler, setting walls enclosing the boiler and extending therebelow to enclose a combustion chamber, there being an aperture in one of said walls, a screen arranged within said aperture, said screen comprising a plurality of heat absorbing tubes rising at an inclination to the vertical toward the combustion chamber, and an outer wall of refractory material resting upon said tubes, maintaining contact therewith by gravity, and closing said aperture.

1,676,247. STEAM LOCOMOTIVE. CHARLES E. BROOKS, Montreal, Canada, and CARL A. BRANDT, Great Neck, N. Y.; said Brandt assignor to The Superheater Company, New York, N. Y. Filed Apr. 13, 1923. Serial No. 631,944. 4 Claims. (Cl. 105—48.)



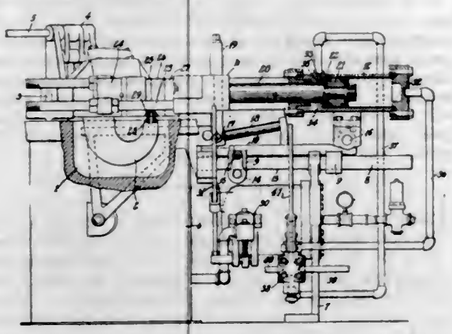
1. In a locomotive, the combination of a pair of flue sheets, flues connecting them, a smoke-box into which the flues open at one end, a bi-chambered superheater header extending across the upper portion of the smoke-box adjacent to the flue sheet, tubular superheater elements extending into the flues and having their ends respectively secured to the two header chambers, a dry-pipe connecting one of the chambers to the boiler steam space, a pair of main distribution valve chests, a throttle adjacent to each outside of the smoke-box, and arranged and adapted normally to control and regulate the steam supply to it, a steam pipe from the second header chamber to each throttle, and mechanism to actuate said throttles from the cab.

1,676,248. MICROMETER GAUGE. WILLIAM L. BRYANT, Springfield, Vt. Filed Nov. 18, 1922. Serial No. 601,731. 5 Claims. (Cl. 33—178.)



1. In a measuring instrument, elements engageable with an object to be measured, a liquid column, and a flexible walled liquid reservoir in communication with said column and against which each of said elements engages, whereby the relative positions of said elements when in engagement with said object are indicated by the length of said column.

1,676,249. HYDRAULIC CONSTRUCTION. GEORGE W. BUNGAY, Plainfield, N. J., assignor to Aluminum Die-Casting Corporation, Garwood, N. J., a Corporation of New Jersey. Filed Jan. 22, 1926. Serial No. 82,910. 2 Claims. (Cl. 138—10.)



1. A die-casting machine comprising two dies, one movable in respect to the other, a piston connected to said movable die and reciprocating in a cylinder, said piston having a head in said cylinder forming a shoulder with the piston rod, said cylinder having a shoulder cooperating with the shoulder on said piston, said shoulder in the cylinder having a port therethrough for the application of hydraulic pressure to the shoulder on said piston, and said cylinder having a port adjacent its other end for the application of pressure to the other face of said piston.

1,676,250. CLUTCH PENCIL. EDWIN CALDWELL, New York, N. Y. Filed Dec. 22, 1922. Serial No. 608,435. 7 Claims. (Cl. 120—14.)



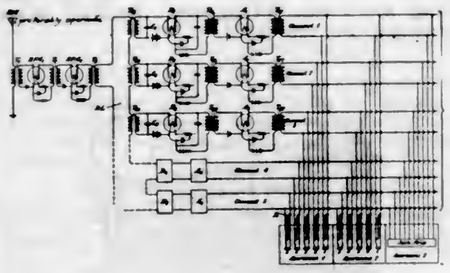
3. A clutch pencil comprising a pencil form having at one end means for gripping leads passing endwise therethrough from the interior of the form, and a magazine, insertable into and removable from the interior of the form, containing a plurality of leads, and having an end wall which opens outwardly when pressure is applied endwise thereto, the interior of the form at the end with the gripping means having an abutment cooperating with the said end wall to open it when pressure is created between the means and magazine, whereby the leads will be fed successively from the magazine into the gripping means.

1,676,251. WINDOW VENTILATOR. MARSHALL F. CLAY, Canton, Ohio. Filed May 12, 1924. Serial No. 712,653. 3 Claims. (Cl. 98—99.)



1. A ventilator comprising a metal plate having louvers formed therein and provided with channel guides at its upper and lower edges, angle strips at each end of the louvers, a fabric filter mounted in the channel guides, and comprising a removable frame provided with a detachable covering of filtering material.

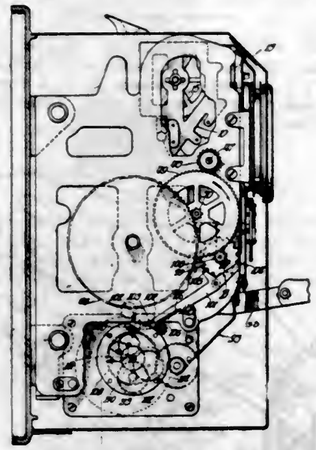
1,676,252. MULTIPLE-CHANNEL RADIORECEIVER. HARRY B. COXHEAD, Hollis, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 11, 1924. Serial No. 755,317. 6 Claims. (Cl. 250—9.)



6. In a broadcast receiving system, means at a central point for simultaneously receiving a plurality of message carrying radio frequency waves, means to select said waves to physically separate channels, one corresponding to each message wave, means in each channel to translate to audio frequency the message carried by the selected wave, means to extend separate circuits from all of plurality of said channels to each of a plurality of subscribers' stations, and means at each subscriber's station whereby a subscriber's receiver may be connected exclusively to any one of the circuits leading to the channels.

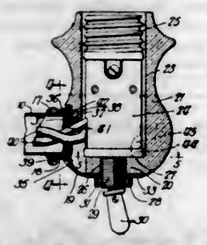
1,676,253. TIME-CONTROLLED MECHANISM. CHARLES M. CROOK and ALBERT E. LONG, Chicago, Ill., assignors to Stromberg Electric Company, Chicago, Ill., a Corporation of Maine. Filed Feb. 3, 1925. Serial No. 6,538. 6 Claims. (Cl. 185—40.)

1. A power device, an escapement for controlling the movement of said power device, a second power device and means whereby said second power device controls said escapement, said escapement comprising an oscillatable member and said controlling means comprising a rotatable member having a plurality of detents which successively detain and release said oscillatable member, said escapement and controlling means having provisions whereby the oscillatable member will make substantially



a complete oscillation back and forth between the time it is released by one detent and detained by the following detent.

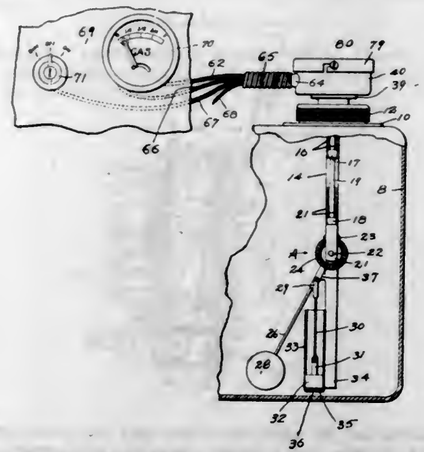
1,676,254. HUSK OR SOCKET HOUSING. VICTOR R. DESPARD, Valparaiso, Ind., assignor to McGill Manufacturing Company, Valparaiso, Ind., a Corporation of Indiana. Filed Mar. 7, 1924. Serial No. 697,680. 12 Claims. (Cl. 173—346.)



1. In a device of the character described, switch mechanism and an enclosure member for said switch mechanism having a longitudinal bore open at one end thereof, a reduced bore extending to the opposite end of said member and communicating with said longitudinal bore and an opening extending through the side wall of said member and communicating with said longitudinal bore, the outer surface of said member being recessed around said reduced bore.

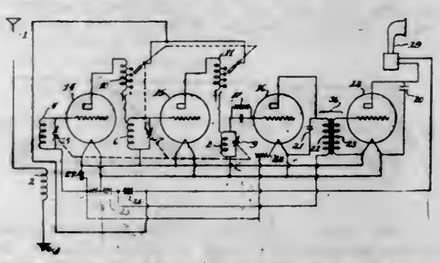
1,676,255. LIQUID-QUANTITY-INDICATING DEVICE. ALPHONS DITTLINGER, EMIL V. DITTLINGER, Jr., and NICHOLAS DITTLINGER, St. Louis, Mo. Filed May 5, 1924. Serial No. 711,161. 3 Claims. (Cl. 201—48.)

1. A quantity indicating device for liquid containers comprising a plate carried by said container, a support carried by said plate and extending into said container, a float pivotally carried by said support, a shaft rotatably mounted in said support and extending through said plate, said shaft adapted to be rotated by the rise and fall of said float, a housing mounted on said plate above the container, a shaft of insulating material carried by said first mentioned shaft and extending into said housing, a potentiometer mounted in said housing, a contact finger carried by said insulating shaft and contacting with said potentiometer, a cylinder located in said liquid container and open at its top having a perforate closure at its lower end carried by said support and adapted to have liquid ingress and egress therethrough, a piston located in said cylinder, and a rod pivotally connected to



said piston and float whereby the rapidity of rise and fall of the float is controlled by the rate of passage of liquid to and from the container through the perforate bottom of the cylinder.

1,676,256. STABILIZING MEANS FOR RADIO RECEIVING SYSTEMS. PHILIP E. EDELMAN, Chicago, Ill. Filed Nov. 17, 1924. Serial No. 750,377. 5 Claims. (Cl. 250—20.)

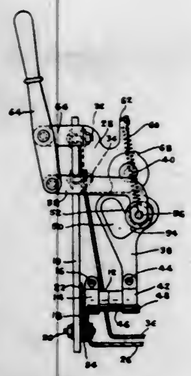


1. In a radio receiver, a plurality of three element tubes for radio frequency amplification, said tubes having grid circuits and plate circuits, a tapped primary transformer coil included in each of said plate circuits, a secondary transformer coil in each of said grid circuits and interlinked with the primary coil of the preceding plate circuit, a variable condenser in each of said grid circuits, and mechanically interconnected means for simultaneously varying the number of turns of said primary coils in the plate circuits and varying said condensers for the purpose described.

1,676,257. ELECTRIC SWITCH. THOMAS C. FORBES, Hopkins, Minn., assignor to Waters-Genter Company, Minneapolis, Minn. Filed May 19, 1926. Serial No. 110,121. 1 Claim. (Cl. 200—68.)

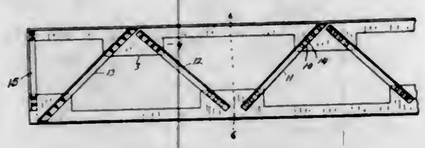
An electric switch comprising a support, a fixed contact insulatively carried by said support, a bracket insulatively secured to said support and having a circular marginal portion, a switch arm having a circular end portion, a pivot passing centrally through said circular portions, a stop lug extending transversely from the periphery of the circular portion of said arm and adapted to engage said bracket when said arm is in open position, said arm having an intermediate enlarged portion provided with a V-shaped slot therein forming a shoulder, a

contact carried by the other end of said arm and adapted to engage said fixed contact, a fiber roller positioned in said slot, a bar on one end of which said roller is mounted, a lever to which the other end of said bar is



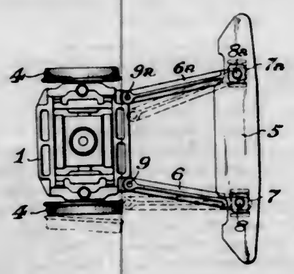
pivoted and by which said roller may be moved across said shoulder, and a spring connecting said bracket and said bar which causes said roller to exert a sudden thrust on said switch arm when said roller passes over said shoulder in either direction.

1,676,258. METHOD OF MAKING TRUSSED STRUCTURES. CHARLES H. FORK, Detroit, Mich., assignor of one-half to William J. Rush, Dearborn, Mich. Original application filed July 3, 1922, Serial No. 572,694. Divided and this application filed Feb. 11, 1924. Serial No. 692,108. 3 Claims. (Cl. 29—155.)



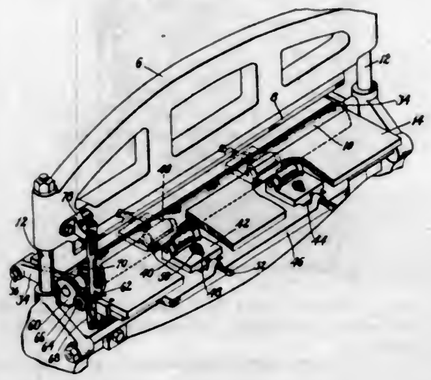
1. The method of forming trussed structures comprising the splitting of a blank to provide separate chord members having spaced integral gusset plates, spacing the chord members a substantial uniform distance apart, and securing web members to said plates.

1,676,259. TRUCK RADIUS BAR FOR LOCOMOTIVES. CHARLES K. GETCHELL, Schenectady, N. Y. Filed Apr. 27, 1926. Serial No. 104,981. 2 Claims. (Cl. 105—174.)



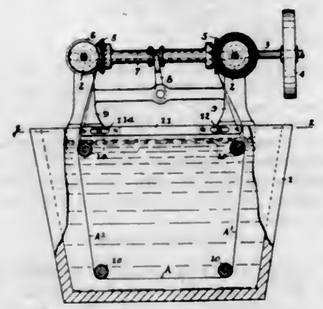
1. In a locomotive, the combination of a locomotive frame; a bumper beam thereon; a wheeled truck frame, movable about a centre pin on the locomotive frame; and radius bars, coupling the ends of the truck frame to the bumper beam.

1,676,260. CUTTING MACHINE. HARVEY L. GLIDDEN, Needham Heights, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 10, 1922. Serial No. 573,775. 15 Claims. (Cl. 164—58.)



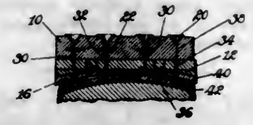
1. In a machine of the character described, means for cutting sheet material comprising a cutter, a cutting block for co-operation with the cutter, means for moving the block to present new cutting surfaces to the cutter, means for adjusting the cutting block and its moving means toward and from the cutter, and means for maintaining the block and its moving means in engagement in adjusted positions.

1,676,261. JIGGER. HENRY GRASSEY, Glen Rock, N. J. Filed Nov. 5, 1927. Serial No. 231,177. 2 Claims. (Cl. 8—19.)



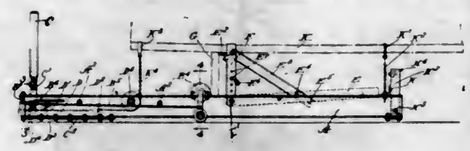
1. In combination, with supporting means, means to draw a fabric lengthwise under tension first in one direction and then in the other comprising two beams on first one and then the other of which the fabric is adapted to be wound, means to maintain a bend in the fabric between the two beams, and a device arranged between, and freely shiftable on the supporting means back and forth from one toward the other of, the stretches of the fabric at opposite sides of said bend and maintaining a bend in each such stretch and also having the surface thereof in contact with one stretch curved in a plane extending transversely of the fabric.

1,676,262. HEEL. JOHN B. HADAWAY, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed July 25, 1921, Serial No. 487,314, Patent No. 1,617,049, dated Feb. 8, 1927. Divided and this application filed Dec. 4, 1922. Serial No. 604,761. 6 Claims. (Cl. 36—35.)



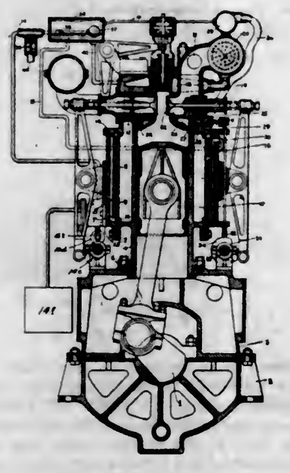
6. An unattached cementless, composite heel consisting of a rigid base section having a flat, outer face and a rubber top section having a curved inner face, said sections being secured together in registered relation by one or more nails.

1,676,263. AUTOMOBILE FRAME STRAIGHTENER. PERCY O. HAWKINS, Hammond, Ind. Filed Oct. 22, 1924. Serial No. 745,055. 27 Claims. (Cl. 153—38.)



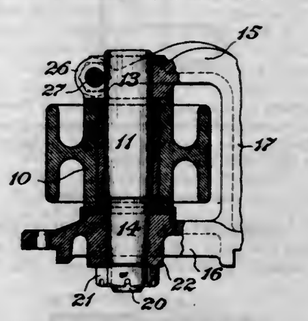
1. In an automobile frame straightener, a horizontal body member, a jack element pivoted thereto intermediate its ends, a lever mounted on said body member, means for connecting said lever with the automobile frame, comprising a toothed bar slidable along said body member, a flexible member extending from said toothed bar, and means for securing it to the automobile frame.

1,676,264. INTERNAL-COMBUSTION ENGINE. MYRON F. HILL, New York, N. Y. Refiled for abandoned application Serial No. 318,461, filed Aug. 19, 1919. This application filed June 21, 1926. Serial No. 117,652. 14 Claims. (Cl. 123—25.)



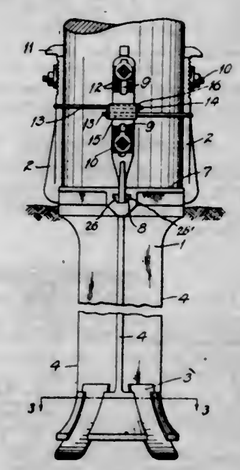
1. In an internal combustion engine, a combustion chamber, a pressure chamber for water around it, subject to heat radiating from combustion in said combustion chamber, to create steam under pressure from said radiated heat, and passageways and guiding means to direct said steam into said combustion chamber in the form of an envelope surrounding the combustion gases.

1,676,265. LOCOMOTIVE VALVE GEAR. JOSHUA J. JONES, Schenectady, N. Y. Filed Dec. 15, 1926. Serial No. 154,883. 3 Claims. (Cl. 308—21.)



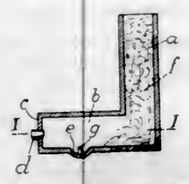
1. In a valve gear for locomotives, the combination of a yoke, having two spaced arms, each formed with a bore, one of the bores being tapered, one of the arms having spaced portions separated by a split extending into the bore, each of the spaced portions having a bolt opening; a member, having a bore disposed between the arms of the yoke; a pivot pin extending into the three bores, the portion of the pin extending into the tapered bore being tapered in correspondence therewith, said pin having a transverse recess; a bolt passing through the openings in the spaced portions of the split arm; and projecting into the recess in the pivot pin; and a nut threaded on the bolt, whereby the spaced portions of the split arm may be drawn toward one another to contract the bore thereof around the pin.

1,676,266. POLE BUTT. JAMES R. KEARNEY, Kansas City, Mo. Filed Sept. 6, 1922. Serial No. 586,451. 10 Claims. (Cl. 189—28.)



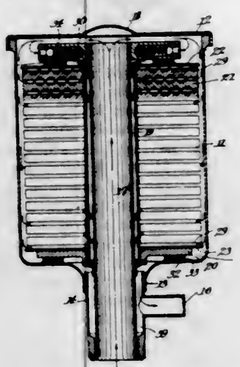
1. In a pole butt, a base, adjustable means on said base adapted for gripping a pole above said base and selectively positioning the pole relative to the base, and vertically adjustable means adapted for distantly positioning the pole relative to the base.

1,676,267. PROCESS OF MAKING GLASS IN A SHAFT FURNACE. KURT KÜNZEL, Uhsmannsdorf, Germany. Filed Mar. 18, 1927. Serial No. 176,398, and in Germany Feb. 10, 1925. 2 Claims. (Cl. 49—54.)



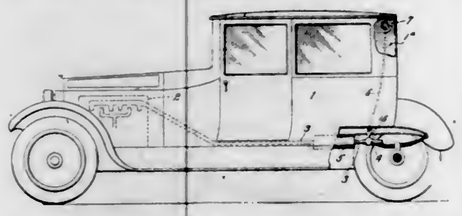
1. A process of making glass in a shaft furnace, which consists in maintaining a charge of crude glass material in said furnace and carrying a flame upwardly through said shaft and the charge therein.

1,676,268. PRESSURE AND VACUUM FILTER. GASTON JOEL LIPSCOMB, Montclair, N. J. Filed May 23, 1927. Serial No 193,712. 5 Claims. (Cl. 210—178.)



1. In a pressure filter, in combination, a casing, a plurality of layers of filtering material assembled upon a perforated hollow carrier within said casing, a smaller imperforate tube within said carrier, means secured to said smaller tube to secure said carrier and said layers within said casing, said smaller tube being adapted to convey liquid to one side of each of said layers and said hollow carrier being adapted to convey liquid away from the opposite side of each of said layers.

1,676,269. SUCTION ELEMENT AND SUCTION VENTILATOR FOR AUTOMOBILES. JULIUS H. LUTZ, New York, N. Y. Filed Oct. 26, 1923. Serial No. 670,895. 1 Claim. (Cl. 98—2.)



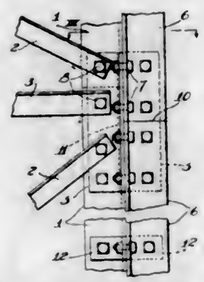
The combination with an automobile having an engine from which leads an exhaust conduit, and a body compartment independent of and removed from the engine, of a suction element having a suction channel communicating with the exhaust conduit whereby the moving exhaust gases induce a suction of air through said suction element, a ventilating element mounted in the wall lining of said body compartment and having variable openings communicating with the interior of said body compartment, a conduit connecting said suction element with said ventilating element and a valve interposed between said suction element and said ventilating element, said valve being normally retained in closed position but operable to open said induced air suction to ventilate the body compartment.

1,676,270. GOLF CLUB. NORMAN D. MATTISON, Montclair, N. J. Filed June 11, 1927. Serial No. 198,015. 13 Claims. (Cl. 273—80.)



1. A golf club comprising a shaft, a plurality of stops carried by the shaft, and weights slidable along the shaft into audible engagement with the stops in the course of the swing of the club, thereby to indicate the character of the swing.

1,676,271. DERRICK. JOHN D. MCEWEN, Pittsburgh, Pa., assignor to Lee C. Moore & Company, Incorporated, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 19, 1926. Serial No. 102,899. 6 Claims. (Cl. 189—13.)



1. A derrick having corner columns and struts and cross-bracing connected to the columns to form panels, each column comprising an angle bar positioned with its back facing outwardly of and its legs parallel to the sides of the derrick, and bracket angle bars attached to the backs of said column-forming angle bars at the panel points, the outstanding legs of said bracket angle bars being perforated for removably attaching to them column-reenforcing angle bars to strengthen the derrick for heavy duty.

1,676,272. DERRICK. JOHN D. MCEWEN, Pittsburgh, Pa., assignor to Lee C. Moore & Company, Incorporated, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 19, 1926. Serial No. 102,900. 4 Claims. (Cl. 189—13.)



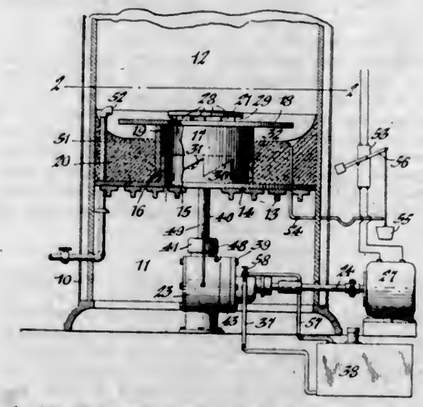
1. In a derrick structure comprising columns formed by two angle bars placed back to back and spaced apart in parallel relation, means for connecting the angle bars comprising a block adapted to be positioned between the angle bars and having opposite grooves for receiving the corners of the bars and having a bolt hole positioned transversely to the plane of said grooves, a pair of clamps each adapted to engage the adjacent outer edges of the two bars, and a bolt adapted to hold the clamps against the bars and against the block, whereby to rigidly position and hold the angle bars in proper relation.

1,676,273. SIGNAL DEVICE. EDGAR A. MILLER and CLEVELAND A. JAMES, Philadelphia, Pa. Filed Jan 4, 1924. Serial No. 684,311. 7 Claims. (Cl. 88—1.)



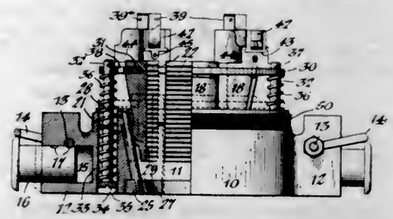
1. A signal device which is illuminated by light from another and distant source and reflects said light back to the source in modified condition, consisting of a reflector composed of a plurality of concentric reflecting surfaces arranged in pairs respectively inclined at an angle to each other to form an annular V shaped reflecting groove, and an annular rib extending outwardly from the bottom of each of the V reflector grooves to substantially divide said grooves into two annular reflecting parts and said annular ribs being of colored translucent material adapted to receive and permit the passage of part of the reflected light from each of the reflecting surfaces immediately disposed on opposite sides of the annular ribs.

1,676,274. OIL BURNER. WILLIAM F. MILLER, Buffalo, N. Y. Filed Aug. 4, 1927. Serial No. 210,569. 2 Claims. (Cl. 158—77.)



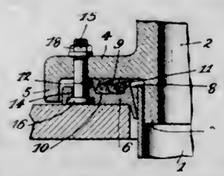
1. An oil burner, comprising a base member adapted to be supported on the grates of a furnace and having an opening for the passage of air and a rim bounding said opening, a casing disposed below said base plate, a hollow, upright shaft journaled in said casing and extending through the opening in said base member, an atomizing disk carrying fan blades on its underside applied to the upper end of said shaft, the top surface of said disk being slightly convex and unflanged, means for rotating the shaft, means for forcing oil upwardly through said shaft on to said atomizing disk, and a sleeve applied to said base rim and provided at its upper end and below the atomizing disk with a ring, said sleeve being vertically adjustable toward and from said disk to vary the air space between it and the sleeve-ring, and the atomizing disk extending outwardly beyond the ring-opening and the fan blades thereof extending into said ring-opening.

1,676,275. COMBINED CASING SPIDER AND ELEVATOR. GUSTAVUS A. MONTGOMERY, Titusville, Pa., assignor to Titusville Forge Company, Titusville, Pa., a Corporation of Maryland. Filed Nov. 8, 1924. Serial No. 748,587. 8 Claims. (Cl. 24—263.)



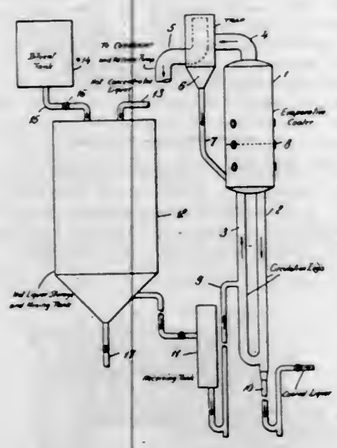
1. A device of the character described, comprising a supporting member having a tapered opening, fixed guide posts arranged in said opening, a plurality of vertically movable slips in said opening and engaging said guides, and a suspension element guided on and surmounting said supporting member and engaging said slips.

1,676,276. SEAL. CHARLES W. MOORE, New York, N. Y., assignor to The Moore Flange Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 29, 1924. Serial No. 752,923. 3 Claims. (Cl. 285—33.)



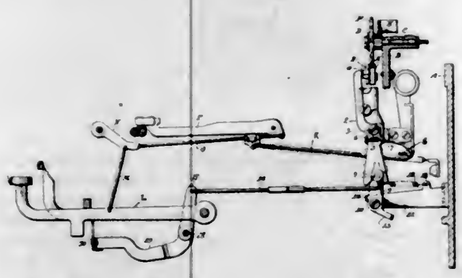
1. A seal for preventing leakage at the juncture of two conduits, said seal comprising a flange having therein a continuous channel, said flange constructed to be firmly affixed to one of said conduits, a soft material placed in said channel and extending above the flange, said second conduit adapted to engage the full width of said material and when drawn toward the first conduit to put all of said material under compression and to force substantially all of the air out of the same, and two flexible coatings, one on each side of said material and in contact therewith and extending substantially vertically between said flange and said second conduit thereby to form a self maintaining seal that resists disassembly as said coatings are impervious to the passage of air into said material and between said flange and said material and between said second conduit and said material.

1,676,277. COOLING APPARATUS. RUSSELL W. MUMFORD, Trona, Calif., assignor, by mesne assignments, to American Potash & Chemical Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 14, 1925. Serial No. 56,122. 2 Claims. (Cl. 23—273.)



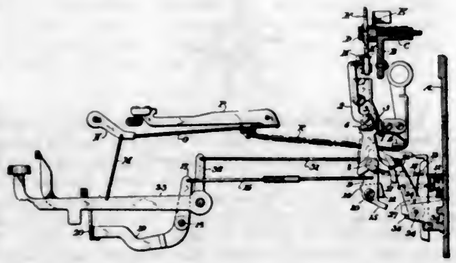
1. An apparatus for cooling liquors containing constituents susceptible of evaporation, comprising a chamber adapted to be maintained under reduced pressure, a vapor outlet above the normal liquid level therein, a pair of depending circulation legs opening into the said chamber below the normal liquid level therein and communicating at their lower ends, the circulation legs forming with with the said chamber a closed circulatory system, a connection for withdrawing liquor from the system, and a connection for supplying liquor to one of said legs at an intermediate point.

1,676,278. TYPEWRITING MACHINE. LEWIS C. MYERS, Freeport, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 18, 1927. Serial No. 226,952. 7 Claims. (Cl. 197—84.)



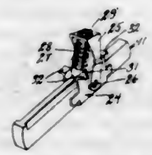
1. In a typewriting machine having a shift frame and an escapement mechanism including a stepping dog, a stop permitting normal double space movement of said dog, an auxiliary stop, and means for moving said auxiliary stop into position to limit said dog to a single space movement, said means including connections which are disabled when the shift frame is moved to upper case position.

1,676,279. TYPEWRITING MACHINE. LEWIS C. MYERS, Freeport, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 17, 1927. Serial No. 240,749. 8 Claims. (Cl. 197—84.)



1. In a typewriting machine having a shift frame and an escapement mechanism including a stepping dog: a stop permitting normal double space movement of said dog, an auxiliary stop, means for moving the auxiliary stop into position to limit said dog to a single space movement, said means including connections which are disabled when the shift frame is moved to upper case position, and other means for moving the auxiliary stop into operative position at this time.

1,676,280. SWITCH SOCKET. GEORGE F. NIEMANN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 30, 1924. Serial No. 729,011. 5 Claims. (Cl. 173—355.)

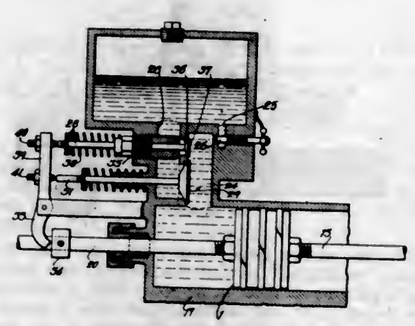


1. A switch socket comprising an insulating base, receptacle contacts, wiring terminals and switch mechanism mounted on said base, said base with the contacts and wiring terminals being insertable and removable with respect to a casing as a sub-assembly, said switch mechanism comprising (1) a push bar extending transversely through said sub-assembly and serving to hold said sub-assembly in said casing and being removable laterally from said casing to release said sub-assembly for removal from said casing, (2) an oscillatable switch arm, (3) a spring shiftable back and forth to cause said oscillation of said switch arm, and (4) a spring-carrying member extending between said push bar and switch arm, and means whereby when said push bar is withdrawn from said sub-assembly, said spring-carrying member will be held in position to come into operative relation with said push bar when it is again inserted.

1,676,281. PROCESS FOR MAKING POWDERED VITREOUS POLYMERIZED STYROL AND ITS HOMOLOGUES, TO THE POWDER SO PRODUCED, AND ARTICLES INCLUDING SUCH MATERIAL. IWAN OSTROMISLENSKY, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed May 7, 1924. Serial No. 711,586. 14 Claims. (Cl. 260—2.)

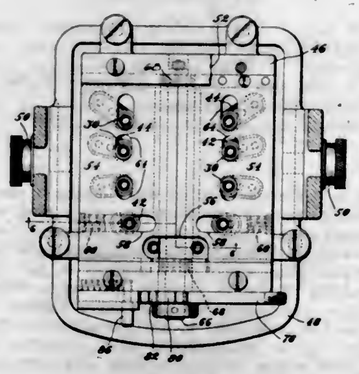
1. The process for making powdered vitreous polymerized $ArCH:CH_2$ where Ar represents aryl which comprises polymerizing $ArCH:CH_2$ in an emulsion, to form vitreous polymerized $ArCH:CH_2$, and precipitating the polymerized $ArCH:CH_2$ as a powdery mass.

1,676,282. ELECTRIC WELDING. GEORGE H. PHELPS, Warehouse Point, Conn., assignor to Thomas E. Murray, Brooklyn, N. Y. Filed Mar. 5, 1927. Serial No. 172,963. 8 Claims. (Cl. 219—4.)



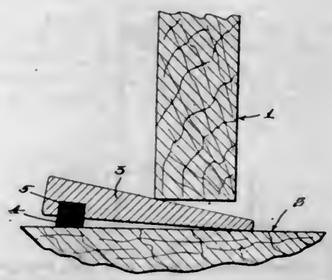
1. The combination with the movable head of an electric welding machine of a magnetic device for moving said head and means for limiting the speed by absorbing a part of the pressure of said device during an early part of the movement and releasing the full pressure during a later part, said device being designed to exert at all times substantially the maximum pressure required so that upon said release there is a sudden application of maximum pressure.

1,676,283. ATTACHING MACHINE. ELMER R. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 4, 1922. Serial No. 604,751. 13 Claims. (Cl. 1—39.)



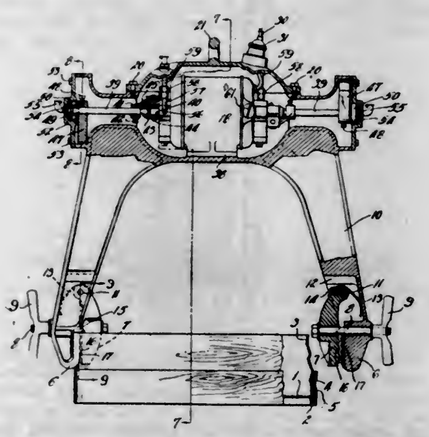
6. In an attaching machine, a plurality of groups of fastener-conduits, each conduit having a terminal-portion, a mounting member provided with openings to receive the terminal-portions, and a movable adjusting member for each group of conduits, each adjusting member having openings co-operating with the terminal-portions belonging to its group, which terminal-portions are disposed in the corresponding openings of the mounting member.

1,676,284. DOORCHECK. GEORGE A. POWELL, Forest Hills Gardens, N. Y. Filed Dec. 16, 1927. Serial No. 240,507. 1 Claim. (Cl. 292—343.)



A door check comprising a wedge shaped member of fibrous material for coacting between the bottom of a door and the floor, the thick end of said wedge being provided on the lower face thereof with a rectangular shaped opening extending into said wedge and a member of flexible material fixed in said opening and extending beyond said lower face for frictionally engaging said floor.

1,676,285. RIDDLE. HENRY PRELL, Chicago, Ill. Filed Dec. 31, 1923. Serial No. 683,658. 5 Claims. (Cl. 74—14.)

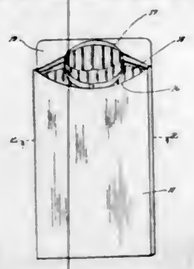


1. Apparatus of the character described, comprising a casing, a motor centrally disposed therein and having a horizontal shaft, auxiliary shafts on either end of said motor shaft in substantially aligned driven relation therewith and having bearings in said casing, a weight carried by each of said auxiliary shafts and unbalanced therefrom, depending arms on said casing adapted to support an element to be vibrated in unison with said casing, and means for suspending said casing.

1,676,286. SHIRT ENVELOPE. ARTHUR RATCLIFF, Milwaukee, Wis., assignor to Hummel & Downing Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 5, 1923. Serial No. 622,990. 1 Claim. (Cl. 229—87.)

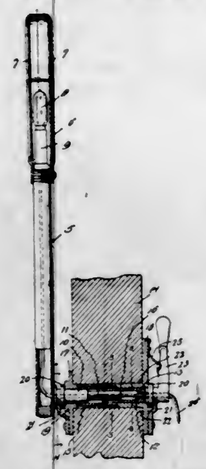
An envelope for shirts comprising a semi-rigid open-ended container formed from a blank of paper board scored and folded to provide an imperforate front wall, side walls, and a pair of overlapping flaps connected

together to form an imperforate back wall, said front wall being cut away at one end to accommodate the neckband portion of the shirt, and said back wall flaps



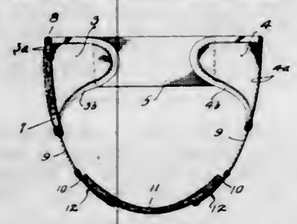
projecting substantially beyond said cut way portion to support said neckband portion, all of said walls being flexibly connected together whereby said container may be collapsed to a flat condition for storing and shipping.

1,676,287. AUTOMOBILE SIGNAL. HARLEIGH E. SANDERSON, Alva, Okla. Filed July 21, 1927. Serial No. 207,445. 4 Claims. (Cl. 116—52.)



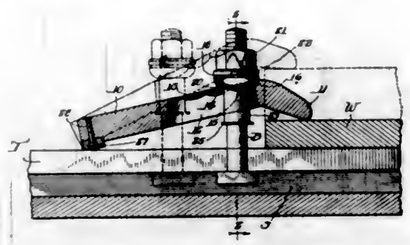
1. An automobile signal including a signal arm having a rigid lateral supporting shaft at one end adjustable in length and provided with an operating crank handle at one end, and a bearing sleeve for the shaft correspondingly adjustable in length and provided with end clamping plates.

1,676,288. SANITARY BELT. ELIZABETH M. SCHLOSSER, Minneapolis, Minn. Filed Sept. 21, 1927. Serial No. 220,922. 3 Claims. (Cl. 128—291.)



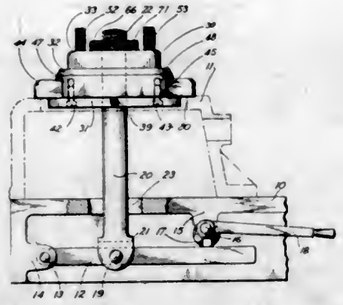
1. A sanitary belt adapted to fit about the waist of a wearer and having means at both front and rear thereof to which the ends of a pad of absorbent material are adapted to be secured, and also having a pocket formed in the front thereof within which an extra pad of absorbent material is adapted to be carried.

1,676,289. MACHINIST'S WORK CLAMP. ALBANO SCHMALZ, Chicago, Ill. Filed Jan. 12, 1927. Serial No. 160,757. 2 Claims. (Cl. 90—59.)



1. A machinist's work clamp, comprising a bar formed with a longitudinal vertical slot therein, said slot having a plurality of seats in its upper edge, a saddle member shaped to fit and swivel in said seats, a clamp bolt extending through said slot and saddle, a nut on the upper end of said bolt, and means secured to said saddle member and locked in said slot serving to retain said saddle member engaged with said bar when said bolt is withdrawn.

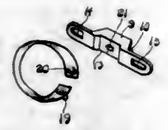
1,676,290. WORK HOLDER. CHRISTY SCHRON, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 27, 1927. Serial No. 194,599. 9 Claims. (Cl. 90—59.)



1. In a device for holding work during a machining operation thereon, the combination with a work supporting frame, of an expansible head, adjustable mounting means for the head, said head comprising a pair of reciprocable bolts, and means mounted in the head for reciprocating the bolts towards and away from each other into engagement with an upper surface of the work to hold the same in the frame, said adjustable mounting means comprising a post supported on the frame, and means for reciprocating said post to effect movement of the head.

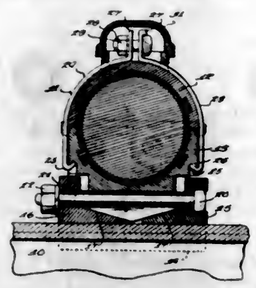
1,676,291. TIE. EDWARD J. SCHULTZ, Covington, Ky. Filed Apr. 6, 1927. Serial No. 181,508. 2 Claims. (Cl. 2—151.)

1. A bow tie comprising a flanged base with a depression in the base bottom terminating in eyeleted ends, a strip of material folded to produce a bow, said bow being centrally inserted between the flanges, a strap to encircle the flanged portion and the centrally positioned portion of the folds of the bow enclosed between the flanges, a snap fastener for the strap, and means for



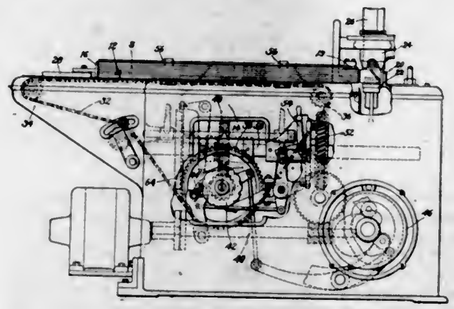
detachable attachment to the eyeleted ends of the base to encircle the neck of the wearer, whereby the tie may be secured in position.

1,676,292. BEARING. WILLIAM SCHWEMLEIN, Parkersburg, W. Va., assignor to The Parkersburg Rig and Reel Company, Parkersburg, W. Va., a Corporation of West Virginia. Filed July 1, 1927. Serial No. 202,952. 7 Claims. (Cl. 308—59.)



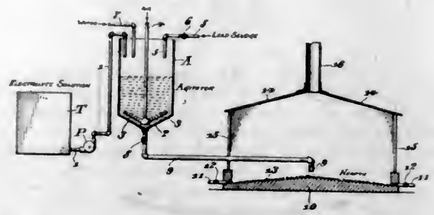
1. A bearing comprising an upper segment and a lower segment, arms extending from the lower segment and adapted to engage a bearing support, and wedges inserted between said support and said bottom segment.

1,676,293. FEEDING MECHANISM. RALPH C. SIMMONS, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Nov. 9, 1922, Serial No. 599,925. Divided and this application filed Jan. 3, 1927. Serial No. 158,745. 15 Claims. (Cl. 271—44.)



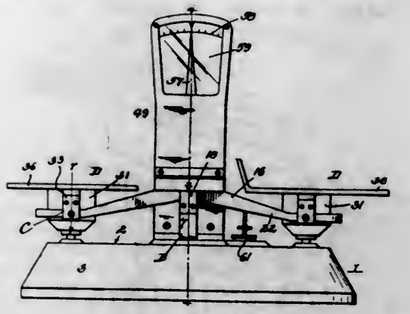
1. In a machine of the character described, a magazine for sheets of material to be operated upon, means for feeding sheets from the bottom of the pile in the magazine, and means for preventing initiation of machine operations when the pile of sheets sinks below a predetermined level in the magazine.

1,676,294. SLUDGE TREATMENT. LLOYD B. SMITH and GEORGE W. JAMISON, Philadelphia, Pa., assignors to The Atlantic Refining Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 9, 1925. Serial No. 67,835. 3 Claims. (Cl. 75—15.)



1. A method for recovering lead from sludge resulting from the treatment of petroleum oil with a compound of lead, which comprises treating the sludge with a substance to break the emulsion of oil and water, removing the water which separates, and igniting the remainder, whereby the oil content thereof is burned leaving a solid having a relatively high lead content.

1,676,295. SCALE. WALTER S. SMITH, Columbus, Ohio. Filed May 12, 1926. Serial No. 108,671. 10 Claims. (Cl. 265—58.)

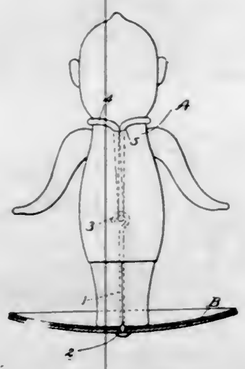


1. A scale comprising a pivoted beam, a check rod movable in parallelism with said beam, a torsion strip cooperative with said check rod to maintain said beam normally in neutral position, an indicator tower arranged above said beam, a rotatable member mounted in said tower, a yoke rigidly carried by the central portion of said beam and including spaced arms arranged on opposite sides of said member, a flexible member having its ends connected with said arm and its central portion operatively engaging said rotatable member, and an indicator hand movable with said member and having its outer end arranged to travel adjacent to a graduated surface.

1,676,296. FIGURE TOY. JOHN A. SPENCER, Revere, Mass., assignor to Spencer Thermostat Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Oct. 23, 1924. Serial No. 745,410. 5 Claims. (Cl. 46—40.)

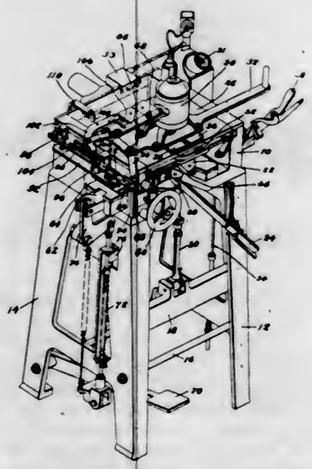
1. A toy comprising the combination with a fanciful figure of a thermostatic member connected to said figure, said thermostatic member comprising a sheet consisting

of a plurality of united components having different coefficients of expansion, a portion of said components being normally cupped but tending to flatten in response to temperature change in one sense, thereby setting up



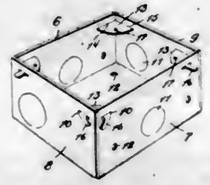
stresses which oppose said tendency until a predetermined temperature is reached, the stresses then abruptly changing the shape of the cupped portion thereby to create sufficient force to impel said member and figure from a position of rest.

1,676,297. HEEL-SEAT-FITTING MACHINE. WILLIAM C. STEWART, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 25, 1924. Serial No. 745,892. 25 Claims. (Cl. 12—17.)



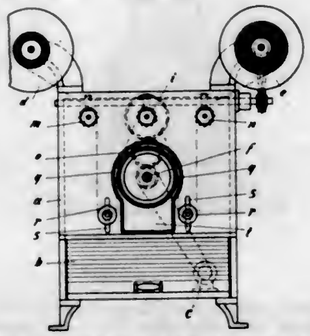
1. A heel-seat fitting machine having, in combination, a work support, a cutter, said work support and cutter being arranged for relative movement to cause the cutter to trim surplus material from the periphery of the heel-seat portion of the sole of a shoe carried by the support, and means for controlling the trimming comprising a measuring device having a member arranged for engagement with the heel or a heel like the heel which is to be attached to the shoe and means for moving said member into engagement with said heel as the cutter and the shoe upon the work support are brought toward operative relation.

1,676,298. OUTLET BOX. HENRY M. STIEGLITZ, St. Louis, Mo., assignor to Frank Adam Electric Co., St. Louis, Mo., a Corporation. Filed Mar. 21, 1925. Serial No. 17,317. 10 Claims. (Cl. 220—62.)



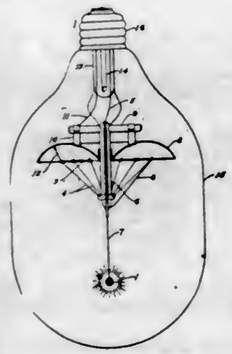
1. As a new article of manufacture, a box-wall securing device comprising a body having a pair of relatively angularly disposed margins and a lug extending from each of the said margins at an angle other than a right angle.

1,676,299. DEVICE FOR CLEANING AND SMOOTHING FILMS AND THE LIKE. JOHANN JACOB FRIEDRICH STOCK, Munich, Germany. Filed June 17, 1926, Serial No. 116,677, and in Germany Mar. 30, 1926. 4 Claims. (Cl. 15—100.)



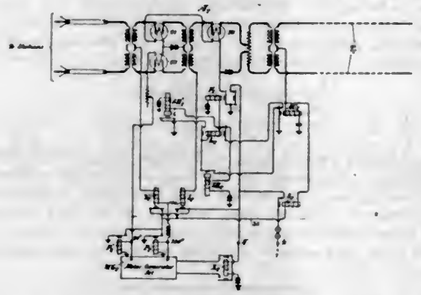
1. A device for cleaning and smoothing worn films and the like, comprising a machine stand, a metallic wire brush rotatably arranged upon the machine stand, means to move the film past and in contact with the said wire brush, and means to exert a constant co-operative pressure between the film and the said brush.

1,676,300. INCANDESCENT ELECTRIC LAMP. ALEXANDER STED, New York, N. Y. Filed Feb. 21, 1927. Serial No. 169,842. 11 Claims. (Cl. 176—1.)



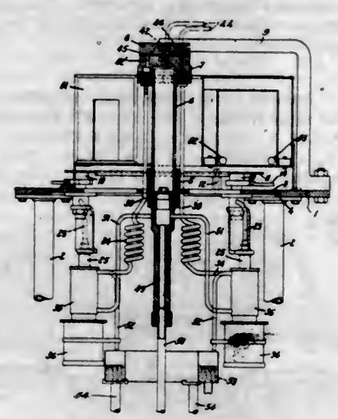
1. An incandescent electric lamp comprising a sealed bulb; a highly polished metal reflector, formed by revolving a bifocal segment about an axis at an angle to a line passing through the two foci, the said axis passing through one of the foci; a refractory metal filament placed exactly into and shaped to conform with the configuration of the focal path of the reflector; and a mass of refractory substance of proper dimensions placed at the common focus of the said reflector.

1,676,301. PROGRAM-TRANSMISSION SYSTEM FOR APARTMENT HOUSES. JOHN F. TOOMEY, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 20, 1924. Serial No. 738,923. 16 Claims. (Cl. 179—171.)



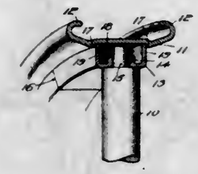
2. In a signaling system, a trunk, a normally disabled amplifier associated with said trunk, means responsive to the momentary transmission of alternating current over said trunk, to render said amplifier operative, and means responsive to the subsequent transmission of alternating current over said trunk to disable said amplifier.

1,676,302. EXHAUST MACHINE. JOHANNES MARINUS VAN DER POEL, Eindhoven, Netherlands, assignor to General Electric Company, a Corporation of New York. Filed Apr. 8, 1926, Serial No. 100,708, and in the Netherlands June 2, 1925. 6 Claims. (Cl. 176—2.)



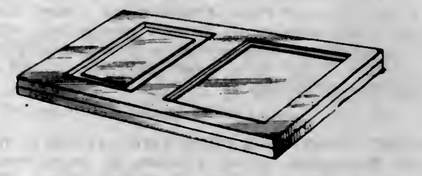
1. An exhaust machine comprising an intermittently rotatable carrier having a plurality of exhaust heads, an equal number of final pumps mounted on and movable with said carrier and each directly connected to a corresponding exhaust head, a rough pump to act as a backer for said final pumps, backer pipes on the outlets of said final pumps, and means for connecting each backer pipe in succession to said rough pump and then sealing said pipe from said rough pump at a point remote from said final pump whereby each final pump discharges into an evacuated reservoir formed by said sealed backer pipe.

1,676,303. VEHICLE WHEEL. JAMES H. WAGENHORST, Jackson, Mich. Original application filed Feb. 24, 1919, Serial No. 278,640. Divided and this application filed Dec. 3, 1925. Serial No. 72,920. 1 Claim. (Cl. 301—96.)



In a wheel, the combination of a sheet metal felly of channel cross-section having front and rear legs, and a continuous, tire-carrying rim having a rim base provided with parallel inwardly extending beads, said felly being transversely split and the ends thereof being disconnected except through said rim, and said rim being contracted upon the felly to bring the rim base into seating engagement with the edges of said felly legs, whereby said beads engage the felly to prevent lateral displacement and circumferential shifting of the rim with respect thereto and the split felly is contracted to anchor the wheel spokes more firmly.

1,676,304. METHOD OF PACKING DOORS, FRAMES, AND THE LIKE. HARRISON B. WALTER, Chicago, Ill., assignor, by mesne assiguments, to Container Corporation of America, Chicago, Ill., a Corporation of Delaware. Filed July 26, 1926. Serial No. 124,998. 2 Claims. (Cl. 93—2.)

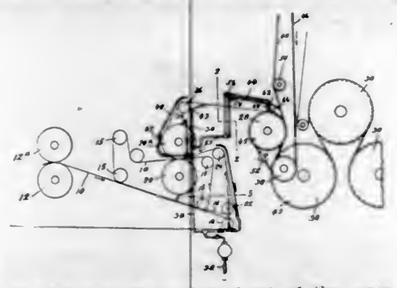


1. The method of packing doors, and the like, which consists in providing two main blanks, each of a length approximating the length of the doors to be included in a package and of a width exceeding the combined width of the widest door of a series and the depth of a package to contain the maximum number of doors of that series to be included, in creasing each blank to provide a plurality of panels running the length of the blank, one panel of the width of the doors to be included in a package, one, of the depth of the package, and a third panel to close one margin of the package, in wrapping said blanks about the package of doors in overlapped relation, in then closing each end of the package by a strip which is wrapped about the said end and overlapped upon itself, said strip being overlapped on one side on the end of the main blanks and on the other side extending beyond the end of the package, and in then slitting said strip beyond the doors, folding the severed parts of said strip into overlapping relation against the ends of the doors and securing them in such overlapped relation against the ends of the package of doors.

1,676,305. PAPER MAKING. ROY VICTOR WELDON, Millinocket, Me., assignor to Great Northern Paper Company, Millinocket, Me., a Corporation of Maine. Filed June 10, 1927. Serial No. 197,955. 15 Claims. (Cl. 34—48.)

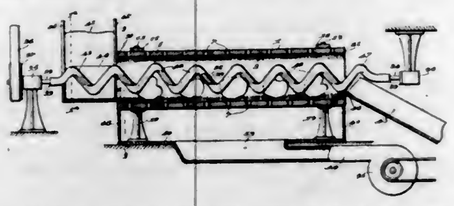
1. The method of guiding the paper web of a paper machine into the carrier ropes of the drying rolls which

consists in directing the web to move toward the ropes and mainly at one side thereof, and deflecting the web in front of the ropes laterally toward the ropes by a blast of



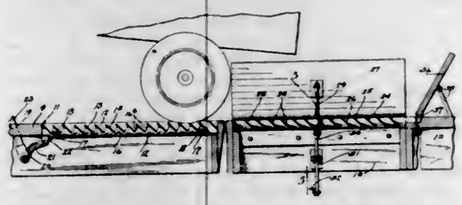
air directed onto the web in front of the ropes at an angle to the path of movement thereof and toward the ropes.

1,676,306. FRUIT-CLEANING APPARATUS. EDWARD A. WHITE, Lewiston, Idaho. Filed Oct. 15, 1926. Serial No. 141,746. 3 Claims. (Cl. 146—202.)



1. A fruit cleaning machine, comprising, a shell having an interior fruit cleaning surface, and a spiral feeder therein having peripherally disposed convolutions axially open to permit the fruit entities to project radially into the interior of said spiral feeder while the entities are being advanced thereby.

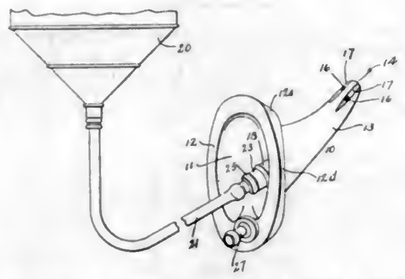
1,676,307. GRATE FOR DUMP PITS. AUGUST P. WINTER, Minneapolis, Minn., assignor, by mesne assignments, to Samuel C. Clow, Minneapolis, Minn. Filed Mar. 8, 1926. Serial No. 93,048. 6 Claims. (Cl. 214—49.)



1. The combination with a dumping platform having a pit opening, of a grate mounted in said opening and including grate slats mounted in said opening and movable from substantially horizontal positions in which they close said opening into oblique positions in which they open the same, said slats having pivot-forming trunnions located at the extreme edges thereof that are uppermost when said slats are in oblique positions.

1,676,308. SANITARY SYRINGE NOZZLE. SIDNEY C. WOOD, Brooklyn, N. Y., assignor of one-half to Wallace E. J. Collins, Huntington, Long Island, N. Y. Filed Apr. 22, 1926. Serial No. 103,776. 2 Claims. (Cl. 128—241.)

1. The herein described douche comprising a nozzle, and means including a base flange projecting from and surrounding said nozzle, the flange being arranged to seal an organ into which the nozzle is inserted, the flange being provided for this purpose with an annular channel on that side of the flange nearest the nozzle, the outer edge of the channel constituting an annular sealing lip projecting generally toward the nozzle for effective sealing



of the organ as aforesaid, said flange being of relatively considerable thickness for the sake of requisite stiffness, and having an edge surface of substantially frusto-conical form, the smaller base whereof is on that side of the flange nearest the nozzle, the face of the flange remote from said nozzzle providing an acuate angle sealing edge.

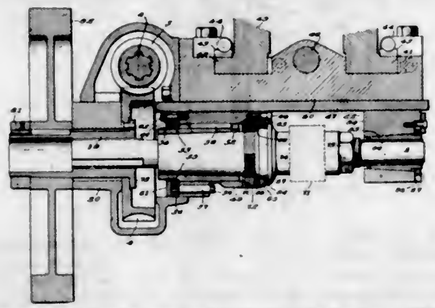
1,676,309. ANTISEPTIC PREPARATION. JOHN H. WRIGHT, Larchmont, N. Y., assignor to Zonite Products Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 19, 1926. Serial No. 89,291. 11 Claims. (Cl. 167—9.)

1. A stable preparation including water, a chlorine-yielding substance, a stearate, and a substantial excess of stearic acid.

9. A stable ointment including water, an organic chlorine-yielding substance, a salt of a saturated fatty acid, an excess of a fatty acid which is nearly insoluble in water, and an aromatic substance inert with respect to the chlorine-yielding substance.

10. A substantially stable chlorine composition of the character described comprising an active chlorine-yielding material and cineol in a form adapted to mask the chlorine odor thereof.

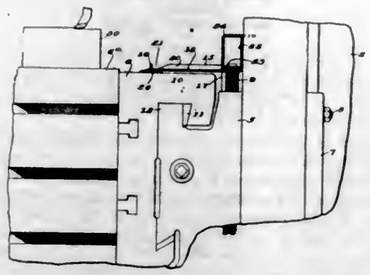
1,676,310. ADJUSTABLE SPINDLE BEARING FOR HOBBING MACHINES. WILLIAM F. ZIMMERMANN, Maplewood, N. J., assignor to Gould & Eberhardt, Newark, N. J., a Corporation of New Jersey. Filed Mar. 13, 1925. Serial No. 15,218. 28 Claims. (Cl. 90—4.)



1. In a hobbing machine, the combination comprising a cutter spindle having a cutter mounted thereon; a bearing for said cutter spindle; a manual control for translating said bearing; a work spindle rotated in timed relation to the rotation of said cutter spindle; a bearing for supporting said work spindle; adjustable means for restricting the end play of the cutter spindle for preventing longitudinal movement thereof with respect to the bearing for the cutter spindle; means other than said adjustable means for varying the diametral fit of the bearing with the cutter spindle; and other means for varying the fit of the work spindle bearing with the work spindle.

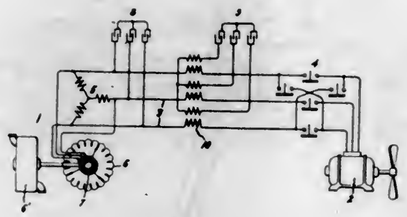
16. A machine-tool combining a cutter spindle having a cutter mounted thereon; a work spindle rotated in timed relation to the rotation of said cutter spindle; a bearing for said work spindle; said bearing having a non-rotatable bushing provided with a conical surface for engaging the work spindle; means comprising an annular member threadedly connected to said bushing for translating it to regulate the diametral fit of the bearing with the work spindle; and means comprising a second annular member threadably connected to the work spindle and secured to the bearing for limiting the longitudinal movement of the work spindle with respect to its bearing.

1,676,311. CROSS-RAIL GUARD. WILLIAM F. ZIMMERMANN, Maplewood, N. J., assignor to Gould & Eberhardt, Newark, N. J., a Corporation of New Jersey. Filed Mar. 27, 1925. Serial No. 18,785. 9 Claims. (Cl. 90—58.)



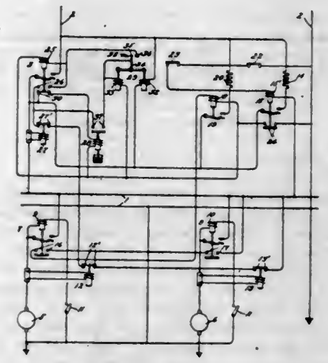
1. In a shaping machine having a cross head mounted on the main frame and a table saddle movable along the cross head, the combination comprising a guard member, located above the cross head; a raised flange formed on the rear edge of the guard member, said flange being positioned adjacent to the machine frame; and a leather strip secured to the front lower surface of the guard member and engaging the top of the table saddle.

1,676,312. SYSTEM OF ELECTRIC SHIP PROPULSION. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 16, 1922. Serial No. 594,754. 5 Claims. (Cl. 172—8.)



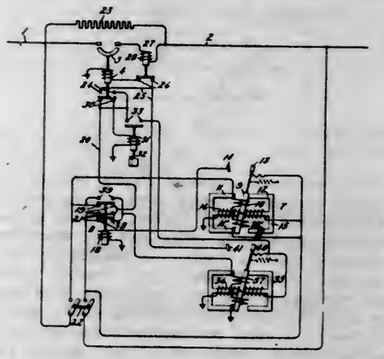
1. An electric ship propulsion system comprising a double synchronous generator, static condensers designed to excite said generator and connected in series therewith, and a motor arranged to drive a propeller.

1,676,313. AUTOMATIC RECLOSING CIRCUIT-BREAKER SYSTEM. ARVID E. ANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 27, 1922. Serial No. 571,183. 22 Claims. (Cl. 175—294.)



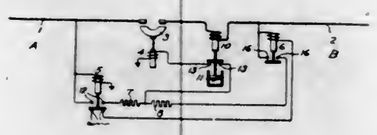
1. In an automatic reclosing circuit breaker system, a supply circuit, a load circuit, a circuit breaker for connecting said circuits together, closing means for said circuit breaker, means for connecting said circuits together when said circuit breaker is open, and a ratio balance relay operative in response to a predetermined ratio between the voltage of said supply circuit and the current supplied to said load circuit from said supply circuit when said circuit breaker is open to effect the operation of said closing means.

1,676,314. AUTOMATIC RECLOSING CIRCUIT-BREAKER SYSTEM. ARVID E. ANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 23, 1922, Serial No. 602,691. Renewed May 26, 1928. 12 Claims. (Cl. 175—294.)



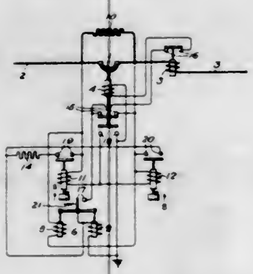
1. In an automatic reclosing circuit breaker system in which two sections of an electric system are arranged to be connected together by means of a circuit breaker, the combination of a coil adapted when energized to effect the closing of said circuit breaker, two circuits for said coil, means arranged to be operated in accordance with the relative voltages across said sections when said circuit breaker is open for selectively controlling said circuits, and reclosing means responsive to a predetermined load condition of the section having the lower voltage for controlling the circuits of said coil.

1,676,315. AUTOMATIC RECLOSING CIRCUIT-BREAKER SYSTEM. ARVID E. ANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 3, 1923, Serial No. 666,421. Renewed May 26, 1928. 14 Claims. (Cl. 175—294.)



1. In an automatic reclosing circuit breaker system, two electric circuits adapted to be energized independently of each other, a circuit breaker arranged to connect said circuits together, a closing coil for said circuit breaker, means responsive to a predetermined voltage across one of said electric circuits for completing an energizing circuit for said closing coil across said one of said electric circuits, another energizing circuit for said closing coil arranged to be completed across the other of said electric circuits, and a current limiting device in one of the circuits of said closing coil arranged to be connected in a shunt circuit around said circuit breaker to limit the flow of current between said electric circuits only when both of said energizing circuits are simultaneously completed.

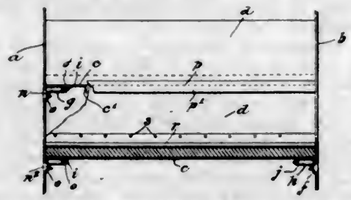
1,676,316. AUTOMATIC RECLOSING CIRCUIT-BREAKER SYSTEM. ARVID E. ANDERSON, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 25, 1924, Serial No. 733,918. Renewed Feb. 8, 1927. 14 Claims. (Cl. 175—294.)



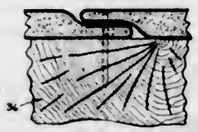
1. In an automatic reclosing circuit breaker system, two electric circuits, a circuit breaker arranged to connect said circuits together, current limiting means arranged to be connected in series with said circuits when said circuit breaker is open, a reclosing relay for controlling the closing of said circuit breaker having a voltage winding, means for connecting said winding to one point on said current limiting means while said circuit breaker is open, and means responsive to a predetermined voltage across one of said electric circuits for connecting said winding to another point on said current limiting means while said circuit breaker is open.

1,676,317. METALLIC STAIRWAY. GEORGE L. BENNETT, Cleveland, Ohio. Filed Feb. 1, 1926. Serial No. 85,105. 8 Claims. (Cl. 189—43.)

1. A metallic stairway embodying therein metallic stringers, a sequence of step units, each unit being of sheet metal so formed as to include a tread section and a riser section integral therewith, each tread section having a downwardly presented channel adapted to span the edge of the riser section of an adjoining unit, means adapted to receive a bolt, carried by and located inwardly of said stringers and upon the lower face of the tread section of each unit respectively and bolts engaging said means respectively, whereby said step units are supported from said stringers, and said stringers and said units may be drawn tightly together.



1,676,318. APPARATUS FOR MAKING LAP-EDGED PLASTER SHEATHING BOARD. CHARLES R. BIRDSEY, Hinsdale, Ill., assignor to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 20, 1922. Serial No. 545,231. 3 Claims. (Cl. 154—1.)



1. In a machine for producing lap edged plaster board comprising the combination of means for advancing a cover sheet with means for turning up the edges thereof, means depositing a plastic material thereon between the turned up edges, means for folding in the turned up edges upon the plastic material and depressing the folded in portions approximately one half the normal thickness of the finished board, means for applying a second cover sheet, and means for applying pressure thereon to bond the cover sheets and plastic material.

1,676,319. DOVETAILED STAVE FOR BARRELS AND CASKS. ERIK AUGUST BOLINDER, Stockholm, Sweden. Filed Aug. 21, 1925, Serial No. 51,715, and in Sweden Aug. 21, 1924. 1 Claim. (Cl. 217—88.)



A dove-tailed stave for producing barrels and casks, characterized by the fact that the parts of the stave joints decrease in width along the stave, from the one end of the stave toward the other, for the purpose of facilitating the sliding of the parts of the joint together.

1,676,320. BOILER BOTTOM. WILLIAM JAMES BURROUGHES, London, England, assignor of one-third to Frank A. Roden and one-third to Charles Taylor, Santa Monica, Calif. Filed Apr. 4, 1927. Serial No. 180,887. 1 Claim. (Cl. 53—9.)



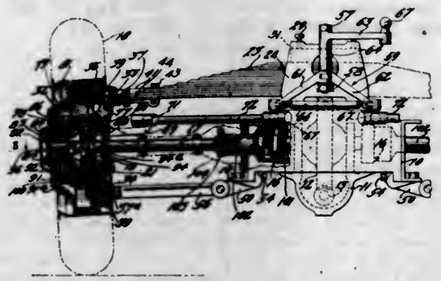
A utensil for heating liquids and the like comprising in combination a body portion and a bottom therefor, said bottom being formed of a single sheet of metal having a depending apron surrounding the same, and provided with a plurality of apertures located a substantial distance from said bottom, whereby a heat retarding zone is formed by said bottom and said apron above said apertures, an annular flange and shoulder adjacent the upper edge of the apron for the seating of the lower edge of the body portion, said bottom having a plurality of downwardly extending cup shaped portions provided with inclined side walls and flat bottoms, said flat bottoms being spaced above a plane passing through the lower edge of said apron.

1,676,321. SECRECY SIGNALING SYSTEM. ALLEN CARPE, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 12, 1926. Serial No. 128,790. 13 Claims. (Cl. 178—22.)



1. In a signaling system the method of obtaining secrecy, which comprises breaking the signal into elements, displacing alternate elements into one frequency band, displacing the remaining elements into another frequency band, superposing these on a transmission channel, receiving and separating the two portions, and restoring the elements to their normal frequency and normal time relation.

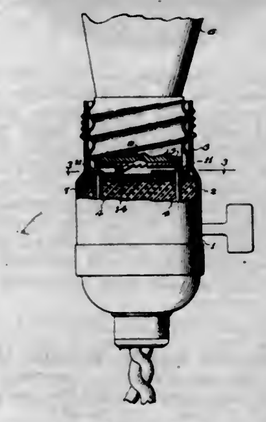
1,676,322. DRIVING MECHANISM. ROLAND CHILTON, Keyport, N. J., assignor, by mesne assignments, to Healey-Aeromarine Bus Company, Inc., a Corporation of New York. Filed Jan. 2, 1925. Serial No. 181. 20 Claims. (Cl. 180—48.)



1. In a vehicle having pivotally mounted wheels for steering so organized that when negotiating a curve the inner wheel is turned through a greater angle than the outer wheel, the combination of universal joint driving means for each wheel, and a lateral drive shaft for each wheel normally so disposed in plan aspect as to normally be midway between the extreme steered positions of the associated wheel axis.

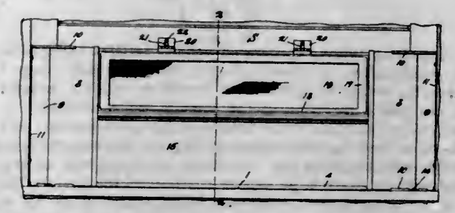
6. A universal joint comprising, a drive shaft, cross pins thereon affording a first axis or orientation, an intermediate member pivoted on the cross pins, aligned trunnions on the intermediate member affording a second axis of orientation normal to the first said axis, blocks on said trunnions, a driven member provided with slots to permit of oscillation of said blocks and affording a third axis of orientation coaxial with the first.

1,676,323. ELECTRIC-LAMP LOCK. SELMER A. CLEMETSON and OLUF H. RASMUSSEN, Iron Mountain, Mich. Filed May 21, 1927. Serial No. 193,331. 3 Claims. (Cl. 176—31.)



1. The combination with a lamp socket including the usual shell, the insulating body therein, a threaded collar, and screws connecting the threaded collar to the body, of a flat split ring lock member placed against the bottom of the said collar and having portions cut away at diametrically opposite points to receive the said screws, and oblong washers mounted upon the headed ends of the screws and confined between the heads of the screws and the said lock member and serving to reinforce the latter at the cut away portions receiving the said screws.

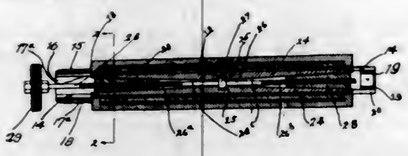
1,676,324. VENTILATOR. JAMES M. COUGHLIN, Wilkes-Barre, Pa. Filed Jan. 10, 1927. Serial No. 160,213. 1 Claim. (Cl. 98—99.)



The combination with a window screen and a window sash, of means exposed entirely outside of the path of the sash for controlling the flow of air under the sash when open, said means including a base plate mounted on the window sill of the frame, parallel walls upstanding from the base plate, adjustable means extending laterally beyond the walls for attachment to the sides of the window frame, a plate detachably and hingedly connected to the base plate and having its sides in sliding engagement with the upstanding walls, a frame hingedly connected to the hinged plate and having its

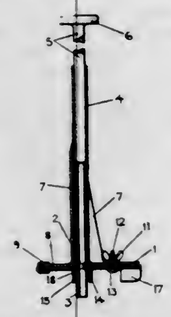
sides slidably engaging the upstanding walls, a screen fabric carried by the frame, and means hinged to the frame for attachment to the bottom rail of the sash, said sash being adapted to close onto the sill and to move along the outer edges of the upstanding walls to open and to closed position, said plate and frame being adapted to fold and unfold during the closing and opening of the sash.

1,676,325. MANDREL. WILLIAM S. DOLL, Akron, Ohio. Filed Aug. 16, 1922. Serial No. 582,170. 3 Claims. (Cl. 18—45.)



1. In a mandrel of the class described, like side members each corresponding to a longitudinally extending portion of a cylinder, said side members being oppositely positioned with the opposing edges thereof in parallel spaced relation, a cylindrical collar, the similar ends of said side members being positioned in said collar and being loosely retained therein, means to loosely retain the opposite ends of said members in assembled relation, wedge members positioned between the opposing edges of said side members, said wedge members comprising longitudinally extending portions of the same cylinder, and means to simultaneously move said wedge members radially of the mandrel.

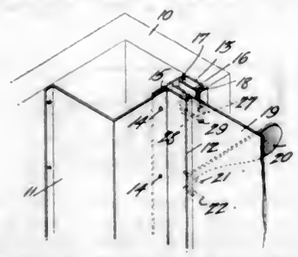
1,676,326. TOOL FOR JOINING WOODEN ARTICLES. AXEL CARL GUNNAR DREILICK, Sundsvall, Sweden. Filed Sept. 17, 1926, Serial No. 136,155, and in Sweden May 4, 1926. 1 Claim. (Cl. 1—47.)



A tool for joining corners of wooden articles comprising in combination a sleeve shaped to guide bar shaped fastening members provided to be driven into the corners in the length direction of the joint, a set reciprocable in said sleeve to force said fastening members out of said sleeve, a base for said sleeve having an aperture through which said members can be driven out from said sleeve, and lugs to control the proper position of the tool in the corner to be joined, said lugs being shiftable so as to make the tool suit left hand corners as well as right hand corners.

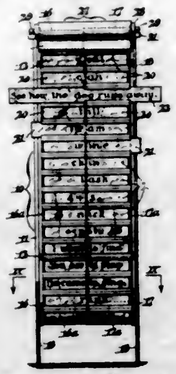
1,676,327. DEVICE FOR PORCH CURTAINS. NORVAL MERRITT FAULDS, Clearwater, Fla. Filed July 21, 1927. Serial No. 207,449. 1 Claim. (Cl. 156—26.)

In a porch curtain or other curtain, a plate having a portion adapted to coact with a clamping element, the said portion having a curtain engaging flange, a clamping element movable with relation to the said flange, the said clamping element comprising a plate having side flanges with apertures and recesses, means for moving the said clamping element comprising stationary pivots, pivots on the clamping element arranged in pairs, and rigid



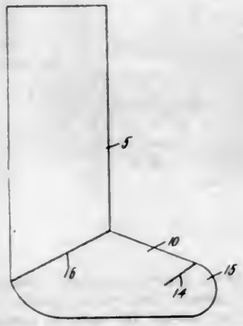
elements applied to the pivots and operative to swingingly support the clamping element, including means for imparting motion to said clamping element.

1,676,328. EDUCATIONAL CHART. EDNA F. FELTY, Philadelphia, Pa. Filed June 30, 1925, Serial No. 40,506. Renewed Nov. 30, 1927. 11 Claims. (Cl. 35—9.)



1. An educational chart comprising a number of independently-shiftable juxtapositioned display belts with their contiguous edges overlapping to avoid visibly-prominent breaks in the continuity of the joint display surface afforded by said belts.

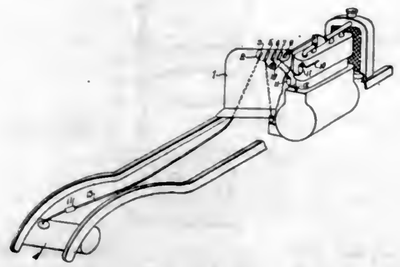
1,676,329. LINING FOR RUBBER BOOTS AND METHOD OF MANUFACTURING. ALFRED A. GLIDDEN, Watertown, and FRANK R. MCKENZIE, Brighton, Mass., assignors to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed July 26, 1927. Serial No. 208,567. 4 Claims. (Cl. 36—55.)



1. A fabric lining for rubber boots comprising a tubular leg section, and a tapered foot section closed at one end

to form a toe by an inclined seam extending partly across the foot section on the upper side thereof, the foot section being sewed at its rear end to the lower end of said leg section.

1,676,330. VALVE. REUBEN HILL, West Hartford, Conn., assignor to The Grolan Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Nov. 14, 1925. Serial No. 69,186. 2 Claims. (Cl. 137—111.)

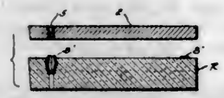


1. In a valve, a two-part valve chamber, each part of said chamber having a passageway, a valve member adapted to alternately seal said passageways and means for guiding said valve member in its movement from one position to the other, said guiding means consisting of a tubular member fitting closely within one of said passageways, the close fit of said tubular member being such as to practically seal one passageway from the other, preventing the entrance of the contents of one passageway into the other passageway.

1,676,331. HEAT RESISTANT BOROSILICATE GLASS. LUDWIG HOCHSTEIN, Wandsbek, Germany, assignor to E. T. Brown, Thomaston, Me. Filed Apr. 10, 1925, Serial No. 22,196, and in Germany Mar. 15, 1925. 10 Claims. (Cl. 106—36.)

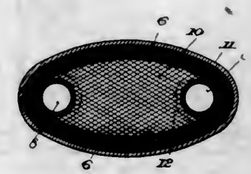
2. A glass composed of silica, boron oxide, alumina, and zirconia, whose coefficient of expansion is approximately 0.0000017.

1,676,332. RUBBER HEEL. EDWARD HOFFMAN, St. Louis, Mo. Filed Oct. 13, 1926. Serial No. 141,259. 1 Claim. (Cl. 36—36.)



In combination, a leather lift adapted to be affixed to a shoe and provided with apertures extending therethrough, pins insertable through said apertures from the upper side before said lift is affixed to the shoe, said pins having a head end terminating within the apertures above the bottom surface of the lift, a rubber heel having expansible washers therein and projecting above the heel, said washers being reduced in radial cross-section toward both ends so as to securely anchor them against vertical movement in both directions, and the lower ends of said washers terminating above the tread surface of said heel, whereby when the heel is pressed against said lift, said washers will be received within said apertures of the lift to receive the heads of said pins, and thereby pull said heel up tightly against said lift, the major portion of the washers forming a part of the tread surface of the heel after a predetermined amount of wear of the latter, so that the entire heel can be worn down adjacent the washer without exposing the head of the pin to wear.

1,676,333. RESILIENT INTERMEDIATE MEMBER FOR JOINTED COUPLINGS AND THE LIKE. HANS KATTWINKEL, Coswig, Germany. Filed Nov. 3, 1924, Serial No. 747,680, and in Germany Nov. 3, 1923. 9 Claims. (Cl. 64—96.)



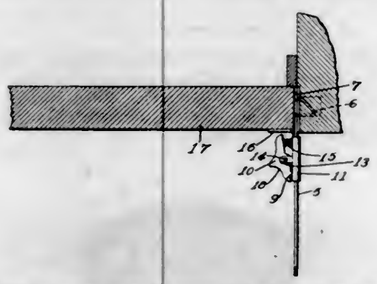
1. A resilient tensile force transmitting member, more particularly for the universal joints in automobiles and the like, comprising a body capable of yielding resiliently to pressure, the said body having a bulging outline at least on two opposite sides, a tensile member enclosing said body at least on two bulged sides and means in bearing contact with said tensile member for attaching external connecting means to said tensile member.

1,676,334. SPINNING APPARATUS. HUBERT KEMPF, Barmen, Germany, assignor, by mesne assignments, to American Bemberg Corporation, a Corporation of Delaware. Filed Feb. 6, 1925, Serial No. 7,368, and in Germany Feb. 18, 1924. 3 Claims. (Cl. 18—8.)



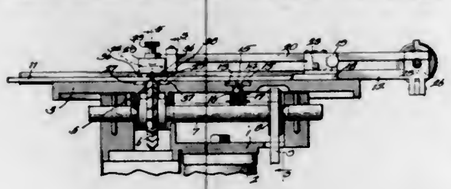
1. In a spinning apparatus for the manufacture of artificial silk by the stretch spinning process, the combination of a cylindrical vessel; a nozzle discharging into the upper end thereof; a spinning funnel arranged within the vessel, the upper edge whereof terminates in approximate alignment with the nozzle with the wall of the funnel spaced from that of the vessel; and means for admitting precipitating liquid to the vessel outside of the spinning funnel and below the level of its upper end and for causing the entire stream of precipitating liquid to pass through said funnel, whereby the liquid flowing inwardly over the upper edge of the funnel will follow, in the main, the inner face of the funnel as it passes downwardly leaving a relatively slow downwardly moving body of the liquid directly below and in line with the discharge of the nozzle.

1,676,335. DOOR FASTENER. JAMES M. KNIGHT, San Antonio, Tex. Filed Nov. 8, 1921, Serial No. 513,756. Renewed Feb. 21, 1928. 1 Claim. (Cl. 292—296.)



A door securing device including a body portion formed of a length of sheet metal, said body portion having an offset portion adjacent to one end thereof and having a flange at its end adjacent to the offset portion, said offset portion adapted to be positioned within the keeper of a latch, the flange adapted to engage the door frame adjacent to the keeper opening, said body portion having a plurality of spaced openings, a movable section slidable on the body portion and having a flange at one end thereof and disposed at right angles with respect to the body portion and adapted to engage a door, ears stamped from the movable section, said movable section having an opening, a latch member pivotally supported between the ears and having a pin adapted to extend through the opening of the movable member and into an opening of the body portion to lock the movable member against movement.

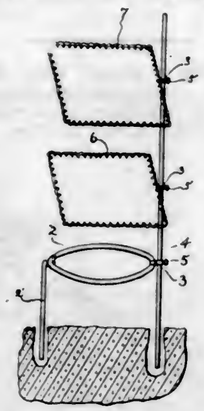
1,676,336. BEVELING MACHINE. WILLIAM J. KNOLL, Chicago, Ill., assignor to H. B. Rouse & Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 2, 1926. Serial No. 126,561. 1 Claim. (Cl. 29—69.)



The combination with a work table having a groove in its top side; of a cutting wheel having symmetrically related beveling faces sloping from the crown thereof and projecting through the bottom of said groove; a work positioning carriage movable along said groove; a gauge stop upon said carriage; two clamping jaws upon the carriage and received in said groove, the tops of these jaws supporting the work and being substantially flush with the top of the work table, said jaws being spaced apart to receive the wheel therebetween, the opposed surfaces of these jaws converging toward a line that lies in a plane that is substantially midway between the zones of the beveling faces of said wheel; and two adjustable clamping jaws also upon the carriage and respectively complemental to the aforesaid jaws and disposed above the same.

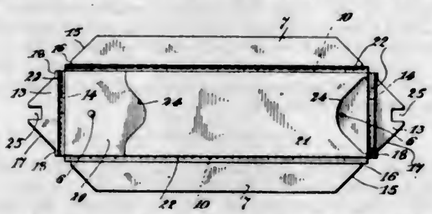
1,676,337. CARNATION-PLANT HOLDER. FREDERICK E. KRUSE, Binghamton, N. Y. Filed June 30, 1923. Serial No. 648,768. 1 Claim. (Cl. 47—47.)

In a plant support an open frame adapted to be disposed in a substantially horizontal plane and provided with a downwardly bent portion penetrating the ground, an eye on the frame, a standard passing through the eye and adapted to be supported in the ground, an additional frame provided with a sleeve to receive the standard, means for adjustably securing the sleeve on the standard and a swivel connection between the said additional



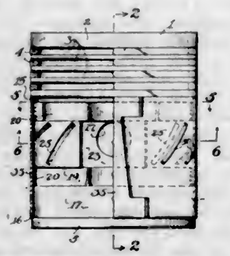
frame and the sleeve to permit said additional frame to assume various angles with respect to the open horizontal frame.

1,676,338. ASSEMBLING DEVICE FOR CARDCASES. CHARLES L'ENFANT, New York, N. Y. Filed June 17, 1927. Serial No. 199,621. 3 Claims. (Cl. 154—41.)



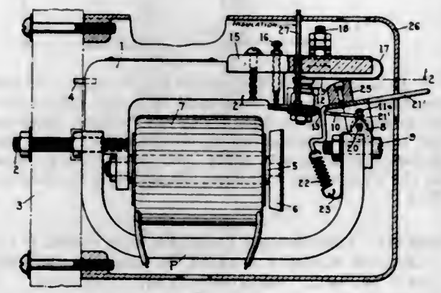
1. An assembling device of the character described comprising a base member upon the upper surface of which superimposed flexible elements are adapted to be arranged, with the marginal edge portions of the lower flexible element projecting beyond the marginal edges of the other flexible element, and manually adjustable presser members hingedly connected to the marginal edges of said base and adapted to be moved inwardly and downwardly into parallel relation with the upper surface of the base to thereby fold said projecting marginal edge portions of the lower flexible element inwardly upon the marginal edges of the other flexible element, said presser members initially having their work engaging surfaces in the plane of the upper surface of the base member.

1,676,339. PISTON. THOMAS J. LEVEY, Baltimore, Md. Filed Apr. 13, 1926. Serial No. 101,757. 5 Claims (74—108.)



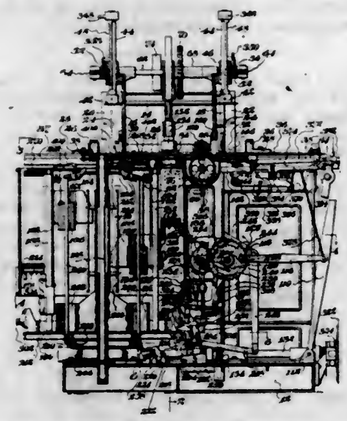
1. In a reciprocating engine the combination of a hollow cylinder adapted to receive a lubricant on the inner wall thereof from a source of supply; a piston provided with a head, a main body portion and a wrist-pin bore disposed in said cylinder; means associated with said piston adapted to circumferentially contact with said cylinder; relatively spaced means between said contact means and said piston to space the same during its reciprocations from said cylinder; and means in said contact means to transmit said lubricant to said wrist-pin bore and said spacing means, while spreading the same over the surfaces of said contact means and said cylinder wall.

1,676,340. RELAY. JOHN C. LINDNER, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Apr. 30, 1923. Serial No. 635,666. 7 Claims. (Cl. 200—93.)



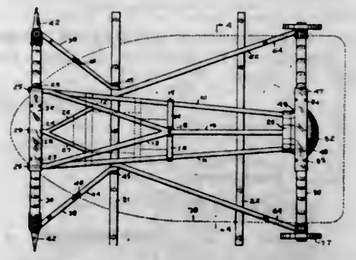
1. A protective device for safeguarding electric interlocking systems comprising, an armature, a contact fastened to said armature, a stationary contact normally in contact with said first mentioned contact, electro-magnetic means for controlling said armature, and manually operable means for restoring said armature to its normal position, said restoring means when operated to move the armature to its normal position acting to keep the contacts open, whereby the contacts are not reclosed to circuit closing position until the restoring means is moved from its restoring position.

1,676,341. BLANK-ASSEMBLING MACHINE. THOMAS LUND, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 19, 1920. Serial No. 425,161. 13 Claims. (Cl. 12—20.)



1. A blank assembling machine comprising, in combination, power operated mechanism for assembling pieces of material into blanks, and a plurality of holders each constructed and arranged to receive directly from said assembling mechanism a plurality of said blanks piled one upon another.

1,676,342. VEHICLE FRAME. DONALD GORDON MACKENZIE, Montreal, Quebec, Canada. Filed Feb. 8, 1926. Serial No. 86,703. 12 Claims. (Cl. 280—106.)



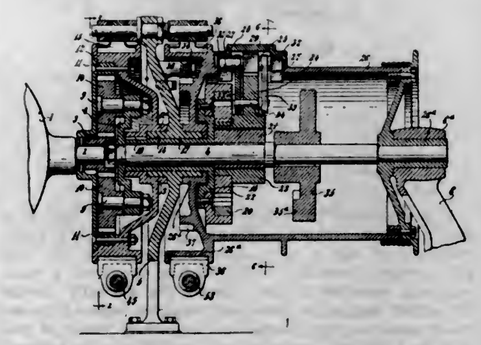
1. In a vehicle frame, a pyramidical frame work, body stringers extending transversely under and beyond said frame work and rigidly secured thereto, front and rear supports for said farme work and torque rods secured to said stringers adjacent to said frame and extending therefrom to the ends of said supports.

1,676,343. RAILWAY CAR. WILLIAM O. MCKAMEY, Knoxville, Tenn. Filed Jan. 8, 1926. Serial No. 80,062. 11 Claims. (Cl. 105—364.)



1. In a structure of the kind described, the combination of a car body having side sills, two pairs of stub axles supported by said sills and carrying said body, wheels carrying said axles, a hinged rod between and parallel to the pairs of stub axles, a bottom door hinged by one edge to said rod and extending thence rearward under the rear axles, and mechanism adapted to operate to secure and support the opposite edge of said door when the latter is forced upward into the closed position, substantially as described.

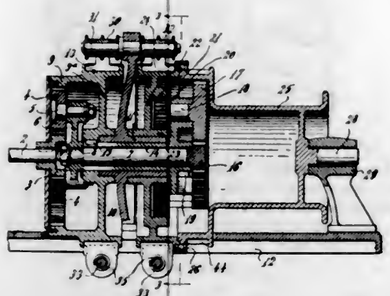
1,676,344. HOISTING APPARATUS. JOHN NEWMANN, Glendale, N. Y. Filed Aug. 17, 1926. Serial No. 129,784. 7 Claims. (Cl. 74—34.)



1. An apparatus of the character set forth comprising a planetary transmission mechanism having a drive pinion, an internal gear, an intermediate pinion, a driven

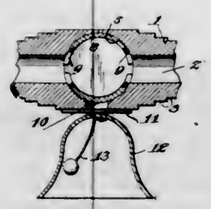
shaft connected with the intermediate pinion and brake means for said internal gear, an eccentric operative by said shaft, a gear operative by said eccentric, a third gear cooperative with the last named gear, said brake means retarding rotation of the third named gear, a drum, and means cooperative with the second named gear and the drum for rotating it.

1,676,345. TRANSMISSION MECHANISM. JOHN NEWMANN, Glendale, N. Y. Filed Oct. 26, 1926. Serial No. 144,236. 4 Claims. (Cl. 74—34.)



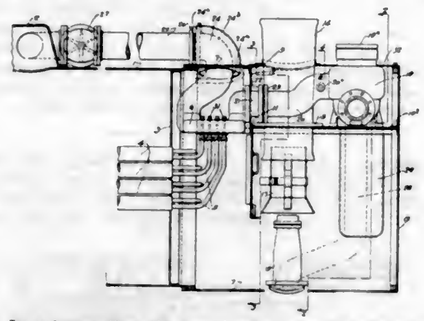
1. An apparatus of the character set forth comprising a planetary transmission mechanism including an internal gear and having a driven shaft concentric with said gear and brake means for said internal gear, a second planetary transmission mechanism including an internal gear and having one of its gears driven by said shaft for rotating its internal gear, part of said second planetary transmission being controlled with the first named internal gear by said brake means, driven means operative by the internal gear of the second named planetary transmission mechanism, and brake means for retarding rotation of the said driven means.

1,676,346. ARRANGEMENT FOR THE BETTER EXHAUST AND USE OF THE EXPLOSION OF THE MOTOR GAS IN ORDER TO OPERATE AN ALARM BELL. GARIBALDI NOCITO, Rosario, Argentina. Filed Feb. 18, 1926, Serial No. 89,240, and in Argentina Dec. 1, 1925. 2 Claims. (Cl. 116—151.)



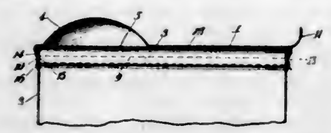
1. A signalling attachment for the exhaust pipe of a motor vehicle, including a casing provided with a longitudinal bore and a valve chamber intersecting the bore and having a secondary outlet leading therefrom, a valve rotatably mounted in the chamber for partially closing the outlet end of the main bore to allow some of the exhaust gases to pass through the secondary outlet, a diaphragm yieldably connected to the casing and positioned over the secondary outlet, and a signal carried by the diaphragm and adapted to be actuated by the vibration of said diaphragm.

1,676,347. LOCOMOTIVE FRONT END. HENRY B. OATLEY, Flushing, N. Y., assignor to The Superheater Company, New York, N. Y. Filed Oct. 19, 1925. Serial No. 63,565. 5 Claims. (Cl. 105—37.)



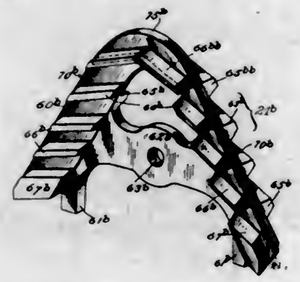
1. In a locomotive, the combination of a circular front flue sheet; a generally cylindrical smokebox sheet extending forward from it and having its forward upper portion cut away leaving two horizontal edges; a flat sheet extending between said edges; and closure means engaging the front edges of the flat sheet and of the smokebox sheet.

1,676,348. DISPENSING CLOSURE FOR CONTAINERS. MARGARET KATHRYN O'LEARY, Fordham, N. Y. Filed Mar. 14, 1925. Serial No. 15,437. 3 Claims. (Cl. 221—104.)



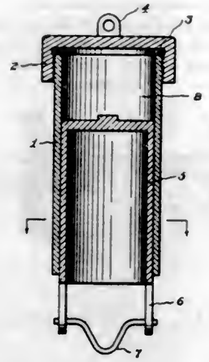
1. A dispensing closure for a container comprising an inner member adapted to be retained on the container and having an opening communicating with the inside of the container, an outer member movably retained on the inner member, a measuring device connected to said outer member normally covering said opening in a position to be filled therethrough with the contents of the container and movable to a position for discharging the material in the device while the opening is closed, a stop on said outer member and a flexible tab on said inner member adapted to lie either in nonengaging position or in position to engage the stop to limit the movement of the outer member and measuring device.

1,676,349. FURNACE GRATE. ERNEST B. PRIEBE, Inwood, N. Y. Filed Sept. 25, 1922. Serial No. 590,446. 4 Claims. (Cl. 110—44.)



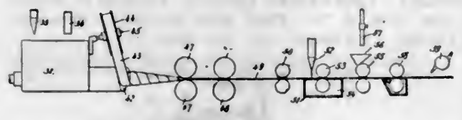
3. In a multiple retort progressive feed furnace having longitudinal air boxes between which the retorts are formed, a system of twyer structures carried upon the intermediate air boxes, and upon each extreme air box adjacent the furnace wall a twyer structure substantially higher than the first mentioned structures and comprising upstanding twyer bars having lateral ribs extending between ribs of adjacent bars to form numerous air apertures, and formed with projecting fins acting to deflect the advancing fuel from the apertures.

1,676,350. ADJUSTABLE PNEUMATIC SPRING. SVERRE QUISLING, Philadelphia, Pa. Filed May 2, 1924. Serial No. 710,653. 1 Claim. (Cl. 267—65.)



A pneumatic spring device comprising a body portion of cylindrical formation, a cap threadedly secured to the top of said body portion, a gasket between the cap and top edge of the body portion to form a fluid-tight connection, a piston movable in said body portion, an eyelet rising from the top of the cap for fastening an object thereto, diametrically oppositely disposed arms depending from the lower end of the cylinder, and a substantially U-shaped rod having its ends bent in opposed relation with respect to each other and secured to the arms adjacent their lower ends.

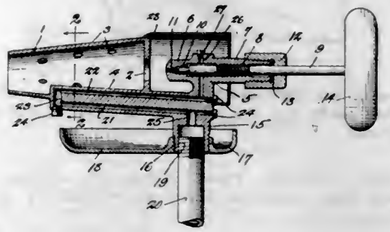
1,676,351. PREPARED ROOFING AND METHOD OF MAKING. THOMAS ROBINSON, New York, N. Y., assignor to Lancaster Asphalt, Inc. Filed Apr. 14, 1926. Serial No. 101,877. 33 Claims. (Cl. 154—2.)



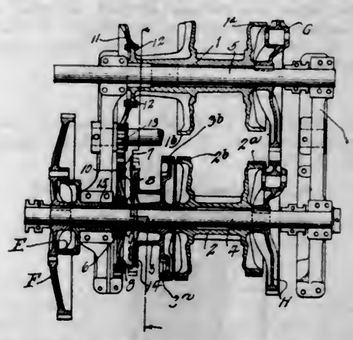
33. A roofing element which comprises a core of oblong shape having a greater thickness at one longitudinal edge than at the other, a continuous wrapping wound about the core in a number of convolutions which cover both faces of the core and extend around both longitudinal edges, cut-out portions forming notches in the longitudinal edge of greater thickness, a coating of sealing material applied over the wrapping, and a layer of granular material forming a wear surface on one face of the wrapped core, this material being affixed to the core by the sealing layer.

1,676,352. BLOWTORCH BURNER. CURTIS RUECKERT, Chicago, Ill., assignor to Mathias Klein & Sons, Chicago, Ill., a Corporation of Illinois. Filed Feb. 13, 1925, Serial No. 8,957. Renewed May 25, 1928. 2 Claims. (Cl. 158—33.)

1. A torch of the character set forth, comprising a combustion head which is open at one end and has an integrally formed closure at the opposite end with an inlet aperture therethrough, an elongated generator body formed integrally with said head and projecting for some distance beyond the rear end of the head, said body being of relatively uniform cross section and having a substantial portion thereof projecting into the combustion chamber, said generator body having an extension at its rear end for connection with a supply pipe and having a second substantially T-shaped extension with its upper portion in alignment with said inlet aperture, said generator body having two substantially parallel bores extending inwardly from the rear end, screw plugs for closing the outer ends of the bores, a connecting bore for connecting the inner ends of said bores, a screw plug for closing the outer end of said connecting bore, an inlet port in the first named extension leading to the lower one of the parallel bores, an outlet port leading from the upper parallel bore through the T-shaped projection, a screw plug for closing the upper end of said last named bore, said T-shaped projection also having a longitudinal passageway with an outlet orifice adjacent to said inlet opening, and a valve for controlling the outlet orifice.



1,676,353. CRANE AND SHOVEL CONVERTIBLE OPERATING MECHANISM. LESLIE A. RUSSELL, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed Dec. 3, 1925. Serial No. 72,925. 14 Claims. (Cl. 214—132.)

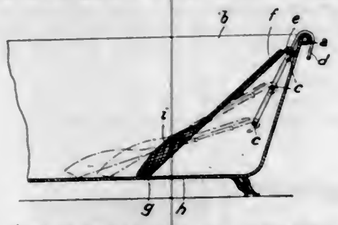


1. In operating mechanism for crane and shovel type machines, in combination, main drums for actuating the holding and closing lines of a clam-shell crane, a boom hoist drum, and clutch means for the boom hoist drum for controlling the raising and lowering of the boom of such a crane, and means for establishing alternative cooperation between the boom hoist drum clutch means and one of the main drums or the boom hoist drum when the said main drums are being used for cooperation with a shovel dipper.

1,676,354. BACK SUPPORT FOR BATHS. ANNA ELISE SACHSSE, Dresden-Blasewitz, Germany. Filed Mar. 24, 1927, Serial No. 178,055, and in Germany Jan. 4, 1927. 1 Claim. (Cl. 4—185.)

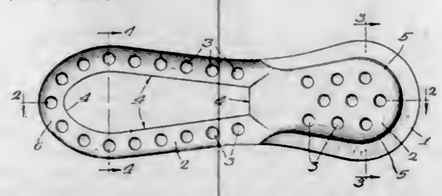
A back support for baths and tubs, comprising in combination a holder consisting of a frame hook-shaped at the outer end and having rungs in the lower end, and a

board fixed on a support having hooks on the upper end designed to be hooked over one of said rungs, and a thickened lower portion of said board resting upon the



bottom of the bath and having a curved upper surface designed to fit into the small of the back of the bathing person.

1,676,355. INSOLE. PERRY SAPERSTON, Chicago, Ill. Filed Sept. 5, 1925. Serial No. 54,598. 1 Claim. (Cl. 36—71.)



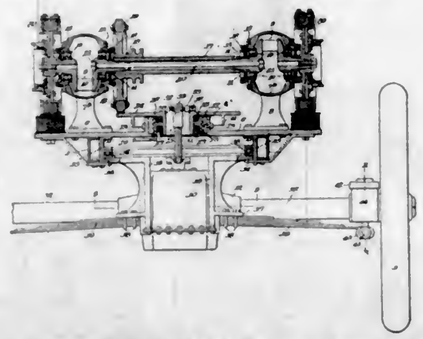
An insole for shoes, normally flat on its entire upper surface, so that the entire upper surface of the insole is in the same plane, composed of flexible and resilient material adapted under foot pressure to conform to the foot and the shoe, comprising a rear portion transversely relatively thick at the edge and thin toward the middle and thereby adapted to roll up or rise at each side of the heel, by distortion thereof, and having a front portion transversely relatively thick at the middle and thin at the edges and thereby adapted, in effect, when the side edges are depressed by the weight of the foot, to rise at the transverse middle portion thereof to insure the transverse arch formation for the foot.

1,676,356. DISPLAY CABINET. MILTON C. SAPINSLEY, Providence, R. I. Filed May 2, 1924. Serial No. 710,502. 2 Claims. (Cl. 312—42.)



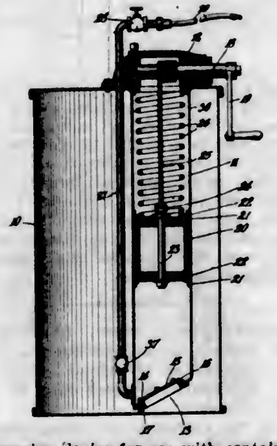
1. A display cabinet of the character described, comprising a supporting base having a spindle, a body journaled on the spindle and having opposed side walls at right angles to each other, said body having a bottom laterally projecting beyond the side walls and provided with notches medially with respect to each side wall, article containers of tray-like form covering the major portions of the side walls and having notched lower ends, the last-named notches being in register with the notches in the bottom, and a hood entirely surrounding the body with its corners angularly disposed and abutting the corners of the body, the portions of the hood between the angular corners being cut-away at their lower ends to provide slots adjacent to the bottom and merging into the notches.

1,676,357. MOTOR VEHICLE. HARRY H. SCHIELER, New Meadows, Idaho, assignor of one-third to Charles E. Stoltz, Webster Groves, Mo. Filed Nov. 15, 1923. Serial No. 674,957. 27 Claims. (Cl. 180—52.)



1. A motor vehicle having in combination a frame, ground wheels, a plate on the frame adjacent the forward ground wheels and having an opening therethrough, two engines mounted on said plate at opposite sides of the opening therein, a sleeve connecting the crank shafts of the engines, a friction wheel mounted on and adjustable longitudinally of said sleeve, a friction disc positioned above said plate and having a hub portion extending through the plate opening, differential drive gearing supported by the frame below said plate and connected to the forward ground wheels, and a shaft extending through the opening in the engine plate and connecting said disc and differential gearing.

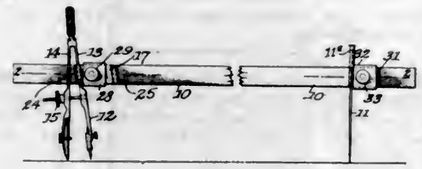
1,676,358. DISPENSING DEVICE. CHARLES R. SCHOTT, New York, N. Y. Filed Mar. 21, 1927. Serial No. 176,892. 2 Claims. (Cl. 221—80.)



1. A dispensing device for use with containers in which lubricant is marketed, said device comprising a cylinder adapted to be inserted through the aperture provided in

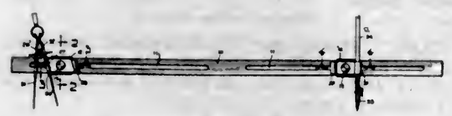
one end of such container, said cylinder having its lower end terminating in an obliquely-arranged inlet flap valve, a head connected to said cylinder to rest on the end of said container to seal the same, a plunger slidably mounted in said cylinder, resilient means interposed between said plunger and said head, a delivery pipe leading from a point near the lower end of said cylinder and passing through said head, a valve in said delivery pipe, and means sealed in said head for moving said plunger in a direction to compress said resilient means.

1,676,359. BEAM COMPASS. FRANK SCHWARTZ, New York, N. Y. Filed May 17, 1926. Serial No. 109,616. 3 Claims. (Cl. 33—158.)



1. In a beam compass, a beam, an engagement member comprising an integral blank having a medial body portion and crimped ends for selective accommodation thereunder and against the beam of instruments of a drawing set, and a clamping device for said member, said device comprising a sleeve element slidably engaging about the beam and adapted to accommodate said body portion between one side thereof and one side of the beam so as to hold and engage the instrument against the beam, and means for simultaneously securing said body portion to the clamping device and to the beam.

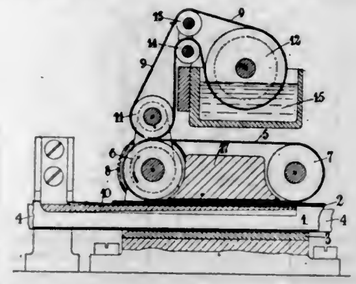
1,676,360. AUXILIARY BEAM-COMPASS KIT FOR DRAWING INSTRUMENTS. FRANK SCHWARTZ, New York, N. Y. Filed Oct. 30, 1926. Serial No. 145,112. 14 Claims. (Cl. 33—158.)



1. In a beam compass kit for use as an auxiliary to a set of drawing instruments, a beam, a pair of independent engagement members variably constructed and arranged to accommodate differing instruments, and a pair of clamping devices slidably adjustable along the beam, each of said devices being provided with means for interchangeably securing either of said members to the beam, whereby selected instruments may be variably associated with the beam to provide beam compasses of desired predetermined characteristics.

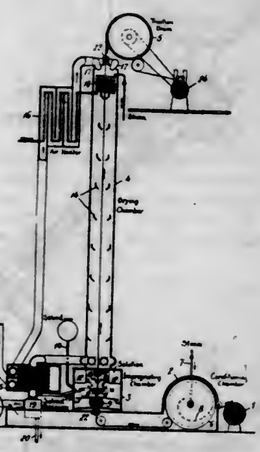
1,676,361. APPARATUS FOR PRESSING TOGETHER THE EDGES OF TUBES. IVAN ALEXANDROVIČ SEMENOV, Pilsen, Czechoslovakia. Original application filed Sept. 17, 1925, Serial No. 57,019, and in Germany Sept. 24, 1924. Divided and this application filed Sept. 7, 1926. Serial No. 134,118. 1 Claim. (Cl. 93—82.)

Apparatus for pressing together the edges that are to be stuck together in forming an uninterruptedly moving strip of paper into a tube, comprising a movable endless band adapted to apply pressure to said edges, means for slowly moving said endless band, and a movable moist



band in contact with said endless band, whereby any adhesive clinging to the said endless band is removed by the said moist band.

1,676,362. WATERPROOF FABRIC. LE ROY SEIDELL and GEORGE B. JACK, Jr., New York, N. Y., assignors to Jaton Manufacturing Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 25, 1924. Serial No. 695,039. 4 Claims. (Cl. 91—68.)

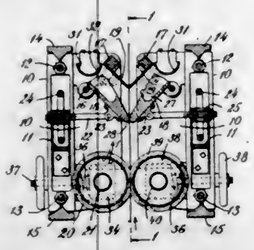


2. A process of making a flexible water proof fabric, comprising impregnating the fabric with a solvent for cellulose esters and then while still impregnated with the solvent impregnating it with a dilute solution containing an ether-soluble cellulose ester, a latent solvent therefor and a non-drying or semi-drying vegetable oil, said solution being of sufficiently low viscosity to coat and impregnate the individual fibres of the fabric without the formation of a thick relatively inflexible surface layer on the fabric and so that the impregnated fabric is substantially homogeneous with respect to the impregnating composition.

1,676,363. IMPREGNATING MACHINE AND PROCESS. LE ROY SEIDELL and GEORGE B. JACK, Jr., New York, N. Y., assignors to Jaton Manufacturing Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 25, 1924. Serial No. 708,875. 6 Claims. (Cl. 91—29.)

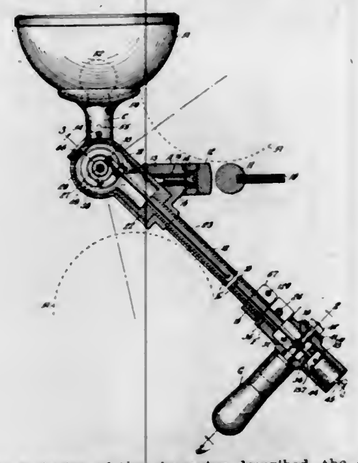
1. An improved knife adapted for use in impregnating machines, having a lower edge adapted to contact with the material treated and a recess adapted to contain a

puddle of treating liquid in one face of the knife arranged away from the lower edge and substantially parallel thereto.



6. A method of impregnating which comprising forming two substantially uniform downwardly flowing films of impregnating liquid, simultaneously bringing said films in contact with opposite sides of the material to be treated and moving the material upwardly past said films.

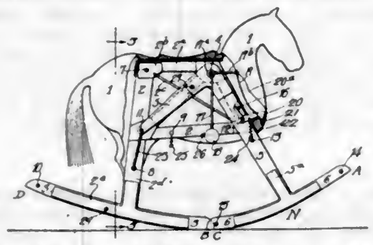
1,676,364. DIRIGIBLY-MOUNTED LIGHT. CLIFFORD SKLAREK, Chicago, Ill., assignor to International Spotlight Corporation, Chicago, Ill., a Corporation of Illinois. Filed July 29, 1921, Serial No. 488,268. Renewed May 9, 1928. 14 Claims (Cl. 240—61.)



1. In a device of the character described, the combination with a support adapted to be secured to a relatively stationary element, said support being provided with a bore and a counterbore; of a housing rotatably mounted in said bore and having a hollow rigid operating arm extending through said counterbore; coacting means on said arm and said support for preventing movement of the housing out of said bore; a lamp holder rotatably mounted on said housing to oscillate about an axis extending transversely of the axis of said support; a shaft rotatably mounted in said hollow arm and extending therethrough; gearing operatively interposed between said holder and adjacent end of said arm; an operating handle carried by said operating arm at the end thereof remote from the lamp holder, and by which said operating arm may be turned within said support, said arm being rotatable about its axis; and gearing operatively interposed between said handle and said shaft.

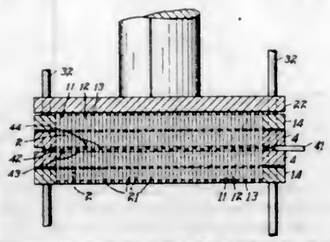
1,676,365. ROCKING AND GALLOPING HORSE. NICHOLAS SMIRNOFF, Brooklyn, N. Y. Filed June 13, 1927. Serial No. 198,529. 4 Claims. (Cl. 272—53.)

1. A rocking horse comprising a body, a main rocker frame secured thereto, an auxiliary rocker frame pivoted to the main frame, a latch on the auxiliary frame for connecting the same to the main frame, a pendulum, a connection between the pendulum and the latch whereby during the rocking motion, the pendulum will release the latch to disconnect the frame and said pivot point



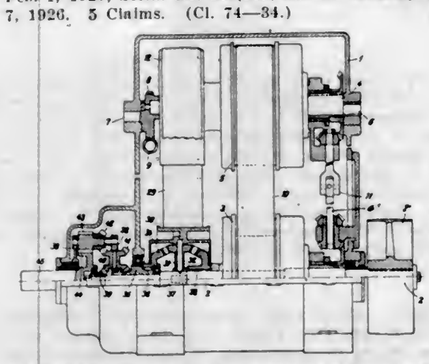
being located so that after release of the latch, the frame will swing forward about the pivot point and relatively to said auxiliary frame to cause advance movement of said horse.

1,676,366. PROCESS AND APPARATUS FOR FORMING GRIDS. JAMES E. SMITH, Wilkinsburg, Pa., assignor of one-half to Isaac Gordon, Pittsburgh, Pa. Filed Jan. 19, 1923. Serial No. 613,627. 27 Claims. (Cl. 29—2.)



1. The process of forming a grid which comprises clamping a sheet of grid forming material between substantially flat holding frames having spaces therein for the passage of grid forming members, passing grid forming means through the spaces in said holding frames to form a completed grid from said material at one operation and while the grid is clamped in said holding frames, retracting the grid forming means from the completed grid while the grid still is held by said holding frames, and then releasing the completed grid from said holding frames.

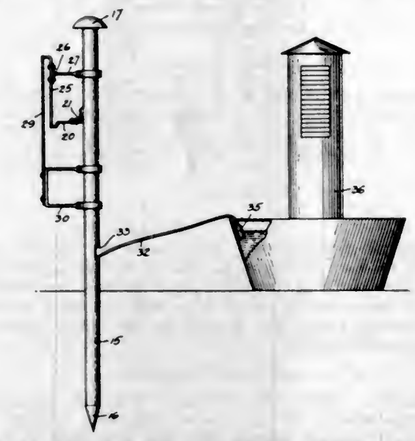
1,676,367. STAGELESS CHANGE-SPEED GEARING. ERNST STÖCKEMANN, Berlin-Tempelhof, Germany. Filed Feb. 1, 1927, Serial No. 165,169, and in Germany Feb. 7, 1926. 5 Claims. (Cl. 74—34.)



1. In a stageless change-speed-gearing a driving-shaft, a counter shaft parallel to said driving shaft, a stageless belt-pulley change-speed-gear between said shafts, an intermediate shaft coaxial to said driving shaft, a hollow shaft surrounding said intermediate shaft, a planet

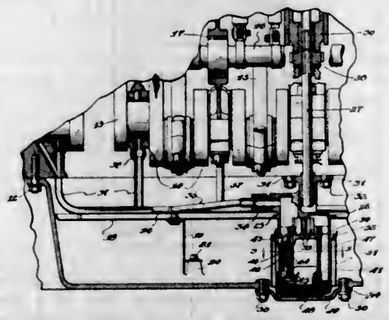
gear movement, the intermeshing wheels of said planet gear movement being arranged upon said driving shaft, upon said intermediate shaft and upon said hollow shaft, a belt driven between said countershaft and said intermediate shaft, through the agency of which the wheels upon the intermediate shaft are caused to travel around the axis of said shaft at a rate of speed corresponding to or varying from that at which the drive shaft is rotated, a driven shaft, a second planet-gear movement, the wheels of said second planet gear movement being arranged upon said intermediate shaft, upon said hollow shaft and upon said driven shaft.

1,676,368. IGNITION DEVICE FOR SMUDGE POTS. JOSEPH AMES ULMER, Los Angeles, Calif. Filed Jan. 5, 1926. Serial No. 79,380. 7 Claims. (Cl. 67—3.)



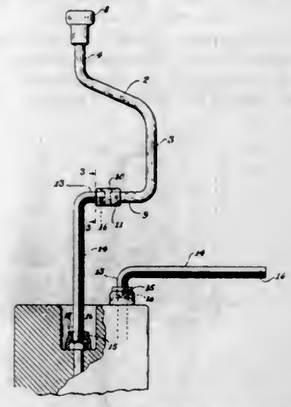
1. An ignition device comprising a platform capable of occupying supporting and discharging positions with respect to an ignitable substance, means for urging the platform to discharging position, means for latching the platform in supporting position, and means defining a passageway operable to guide the ignitable substance when discharged from the platform into igniting relation to a fuse.

1,676,369. INTERNAL-COMBUSTION ENGINE. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 6, 1922. Serial No. 549,971. 8 Claims. (Cl. 184—6.)



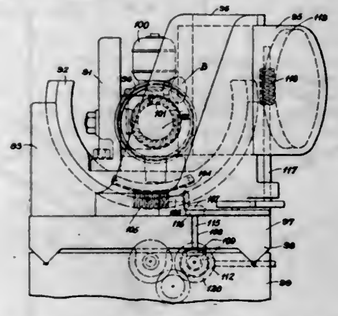
6. In an internal combustion engine, the combination with a pump having an inlet and an overflow outlet, of a screen surrounding and enclosing said inlet and outlet so that the overflow oil may be drawn into the inlet without passing through the screen.

1,676,370. SPEED-HANDLE WRENCH EXTENSION. WILLIAM J. VICTORY, New Britain, Conn., assignor to New Britain Machine Company, New Britain, Conn., a Corporation of Connecticut. Filed Jan. 17, 1925. Serial No. 3,063. 1 Claim. (Cl. 81—73.)



In a device of the class described, a bowed member comprising a shank, an offset crank handle, a right angled extension, and a socket terminating short of a line coincident with the axis of the shank, a co-operating right angled wrench bar having a long arm and a short arm, both ends of said bar being of corresponding angular cross section, said socket having an angular aperture to receive either end of said wrench bar, the length of the short arm of said bar being such as to position the long arm in substantial alignment with the shank of the bowed member when the end of said short arm is seated in said socket.

1,676,371. METHOD OF AND MACHINE FOR PRODUCING GEARS. ERNEST WILDHABER, Brooklyn, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed May 23, 1927, Serial No. 193,611, and in Great Britain and France June 14, 1926. 25 Claims. (Cl. 90—4.)

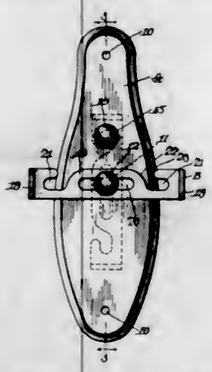


1. The method of producing a gear which consists in cutting its side tooth surfaces by moving a tool in a curved path across the face of a gear blank while simultaneously producing an additional relative movement between the tool and blank corresponding to that of a gear meshing with a helicoidal segment.

25. In a machine for producing gears, a tool support, a rotary annular face mill journaled therein, a blank support, a blank spindle journaled therein, a frame, a carrier, upon which one of said supports is mounted, journaled in said frame, a slide, upon which the other of said supports is mounted, slidable on said frame in a direction parallel to the axis of said carrier, means for positioning the blank spindle with its axis offset from the axis of said carrier, means for adjusting the tool and

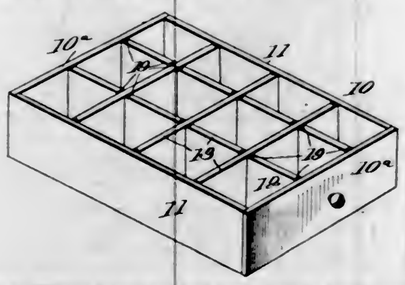
blank into cutting relation, means for rotating the tool in engagement with the blank, means for simultaneously rotating the blank spindle on its axis, means for simultaneously moving the carrier on its axis, and means for simultaneously and in timed relation to the two last named movements imparting movement to said slide.

1,676,372. SUPPORT. MYRL J. WILLIAMS, Chicago, Ill., assignor to The Washburn Company, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 17, 1925. Serial No. 56,865. 1 Claim. (Cl. 211—99.)



In a support, the combination with a bracket; of a U-shaped bar; a plurality of swinging arms disposed between the free end members of said U-shaped bar, the main body portion of the bar having an elongated, longitudinally disposed central opening and a pair of locking recesses extending inwardly from one side edge thereof; a pivot member fixed to the bracket and slidingly accommodated in said elongated opening of the bar; and a locking lug on said bracket adapted to be engaged in either of said locking recesses of the bar to lock the latter to the bracket.

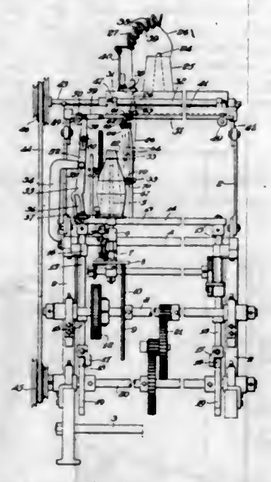
1,676,373. DIVISION-BOARD SUPPORT. ALBERT M. WOLTZ, Baltimore, Md., assignor, by mesne assignments, to Grand Rapids Store Equipment Corporation, Grand Rapids, Mich. Filed Sept. 5, 1924. Serial No. 736,193. 4 Claims. (Cl. 45—7.)



4. A division board support comprising a body provided with a guide portion intermediate between its ends and laterally disposed bearing portions at the ends in a plane at right angles to the guide portion, said bearing portions having prongs arranged in planes at right angles to the plane of the main parts of the bearing portions, and also at right angles to the plane of the guide portion.

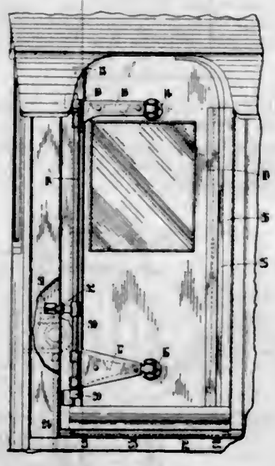
1,676,374. YARN-WINDING MACHINE. JACOB K. ALTEMUS, Philadelphia, Pa. Filed Oct. 28, 1926. Serial No. 144,734. 8 Claims. (Cl. 242—27.)

1. In a yarn winding machine, the combination of a supporting frame, a winding spindle adapted to carry a yarn receiver, means to rotate the spindle, a device for supplying yarn, means to guide yarn from said device to a receiver carried by the spindle, said means including a vertically reciprocable builder frame, means to reciprocate the builder frame and a part against which the yarn bears during its travel, a horizontally-extending,



longitudinally-reciprocable bar, means to support and guide the bar, an element carried by the bar adjacent to the yarn path and adapted to move the yarn transversely of its line to travel relatively to said part when the bar is actuated, and means operated by the builder frame to reciprocate the bar.

1,676,375. SWINGING DOOR. WILLIAM SEBASTIAN GRAFF-BAKER, Ealing, London, England, assignor to The National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed Feb. 12, 1926, Serial No. 87,745, and in Great Britain Feb. 14, 1925. 2 Claims. (Cl. 20—19.)



1. In a door of the type described the combination with the door of guide tracks disposed so that their centre lines intersect one another at right angles, guiding elements on the door, one or more operating arms hinged at one end to a relatively stationary support to swing about an axis intersecting and perpendicular to the said two centre lines, said arms each having pivotal connection at the other end with the door, the axes of pivoting at

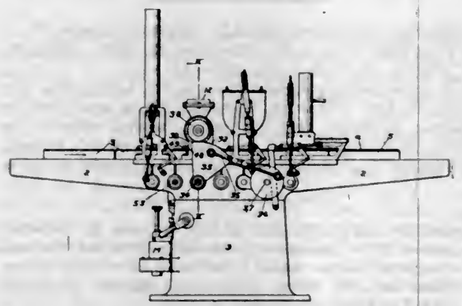
the two ends of the arms being parallel and so disposed that a plane containing them substantially bisects a line joining the centres of the guiding elements on the door which co-operate with the guide tracks.

1,676,376. GUARD FOR STICKPINS. FREDERICK ALLAN BALLOU, Jr., and EUGENE MOREHOUSE, Providence, R. I., assignors to B. A. Ballou & Co., Inc., Providence, R. I., a Corporation of Rhode Island. Filed Nov. 17, 1927. Serial No. 233,850. 5 Claims. (Cl. 24—155.)



1. In combination a stick pin having a plurality of staggered notches in its shank, a guard having a body portion with end walls pierced to receive the shank of said pin and an abutment to engage any one of the notches in the pin.

1,676,377. UNIT-MEASURING MACHINE. CHRISTIAN N. BERGMANN, Pittsburgh, Pa., assignor to Bergmann Packaging Machine Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Dec. 14, 1923. Serial No. 680,633. 22 Claims. (Cl. 226—103.)

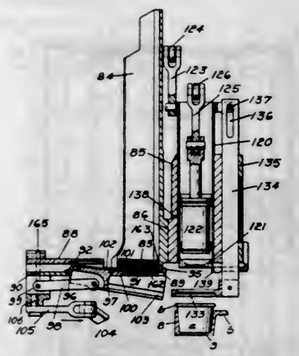


3. The method of extracting, separating and delivering a measured unit from a superimposed mass of plastic material consisting in withdrawing a uniform column portion of the mass by suction and accompanying expansion, then shearing it from the mass while re-locating the unit, and discharging the unit by gravitation simultaneously and in cooperation with the withdrawal of another similar portion while subject to the action of a temperature raising medium.

6. Means for extracting a measured unit from a superimposed mass of plastic material consisting of an upper reservoir, a lower cylindrical casing communicating therewith, a semi-rotatable drum having a middle transverse plunger cavity in full open undiminished registering communication with the reservoir and with an opposite substantially similar discharge opening in the casing, a longitudinally movable spline-controlled plunger in the plunger cavity adapted to freely withdraw a unitary portion from the reservoir by gravitating suction and to simultaneously follow a previously formed unit during its ejection, and separable means for imparting a part rotation to the cylinder.

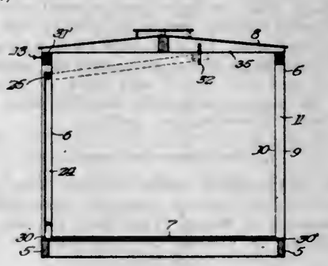
1,676,378. COVER-PLACING MECHANISM FOR UNIT-MEASURING MACHINES. CHRISTIAN N. BERGMANN, Pittsburgh, Pa., ELMER Z. TAYLOR, Newark, N. J., and CYRUS TAYLOR, Hartford, Conn., assignors to Bergmann Packaging Machine Company, Pittsburgh, Pa., a Corporation of Delaware. Filed July 2, 1925. Serial No. 41,106. 21 Claims. (Cl. 226—92.)

1. The combination with an intermittently movable package carrier, of a superimposed open bottom cover holder, a laterally arranged suction plunger, means operatively connected with the carrier for actuating the suction plunger, and a slide plate having edge engaging abutments and a vertically movable cover engaging device



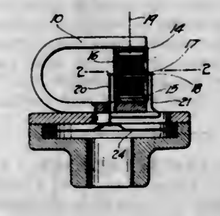
adapted to select and move a lowermost cover from the holder and to place it in registering relation with the plunger.

1,676,379. REMOVABLE CLOSURE. GEORGE BREIDENBACH, Chicago, Ill. Filed Apr. 14, 1922, Serial No. 552,545. Renewed Nov. 30, 1927. 6 Claims. (Cl. 20—30.)



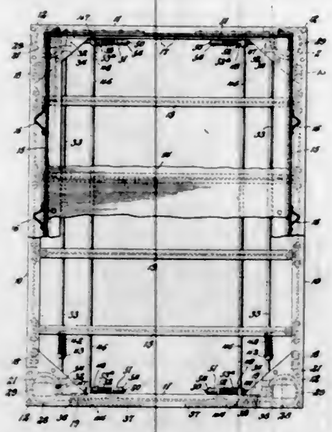
1. In combination, a container for material in bulk, said container having a side opening and a side post, a closure within said container for said opening, a bar on one side of said opening, and means fixedly mounted on the post and with which said bar is slidably engageable for holding said bar for retaining said closure only against pressure from within the container.

1,676,380. ECCENTRICALLY-PIVOTED ARMATURE MOUNTING FOR VIBRATORY UNITS. GEORGE F. BORKMAN, Salt Lake City, Utah. Filed Mar. 31, 1926. Serial No. 98,835. 5 Claims. (Cl. 175—336.)



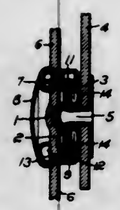
1. A vibratory unit comprising a spool having a sleeve with its winding, armature mounting pins eccentrically located within the said sleeve, and an armature operatively mounted upon said pins.

1,676,381. SWIVELED WHEEL FOR SUPPORTING PORTABLE CONTAINERS. ABNER F. CALLISON, New York, N. Y. Filed Dec. 4, 1924. Serial No. 753,918. 12 Claims. (Cl. 280—48.)



1. In a device of the character described, the combination of a frame, a block mounted therein for adjustment about a vertical axis, a supporting wheel journaled in said block, a shaft having a gear connection with said block, manually operable means for rotating said shaft to turn the block about its axis, said block having a plurality of radial holes, and a spring-held bar automatically projectable into any one of said holes as it comes in front of the same to positively stop the block when it has reached a predetermined position.

1,676,382. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Nov. 18, 1924. Serial No. 750,591. 8 Claims. (Cl. 24—218.)



7. A separable fastener socket including a casing presenting a notched aperture therethrough, the notch being of less width than the diameter of the neck of a cooperating stud, thereby to receive only a portion of the neck of the stud when the fastener parts are subjected to lateral stresses, a spring in said casing presenting a pair of resilient neck-engaging jaws intersecting said aperture, a closure plate secured to said casing and closure plate supporting and spring-positioning projections pressed from the front face of said casing.

1,676,383. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Dec. 20, 1924. Serial No. 757,162. 3 Claims. (Cl. 24—214.)

1. A separable fastener stud comprising a head, a neck and a base portion having a plurality of slits extending a substantial distance into said base to provide a plurality of contractible and expansible portions adapted to bend in said base between the ends of the slits, an attaching member presenting a flange secured to the base of the stud, said flange having a depressed portion spaced from the base of the stud to permit free bending of the contractible and expansible portions of said base toward

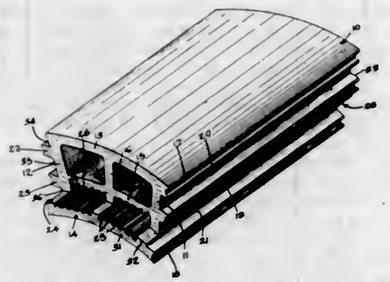


the flange of the attaching part and supporting means located in the recess formed by said depressed portion for supporting the portions of said base beyond the contractible and expansible portions of said base, said supporting means being located a substantial distance from the periphery of the base where it joins the neck of the stud.

1,676,384. BEARING STEEL. HENRY THOMAS CHANDLER, New York, N. Y. Filed May 27, 1927. Serial No. 194,858. 1 Claim. (Cl. 148—1.)

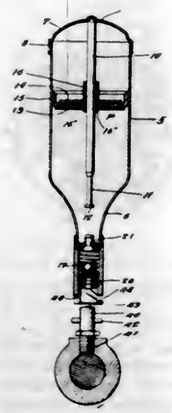
A roller bearing formed from a rod having free carbides in such proportion that said rod is unsuitable for bearing purposes, said rod being twisted whereby the lines of segregation of said carbides extend helically thereabout to produce a rod suitable for bearing purposes.

1,676,385. STRUCTURAL BLOCK. DAVID M. COLWELL, Akron, Ohio, assignor to American Vitrified Products Company, Akron, Ohio, a Corporation of New Jersey. Filed Jan. 11, 1928. Serial No. 245,823. 2 Claims. (Cl. 72—51.)



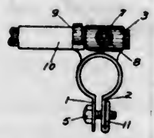
1. A structural block, for forming a tubular structure, such as a sewer, comprising: a first radial side provided with a top longitudinal rib, a bottom longitudinal rib, and a center longitudinal rib, said top and center ribs forming between them an outer longitudinal groove, and said center and bottom ribs forming between them an inner longitudinal groove; a second radial side provided with an outer longitudinal rib positioned to fit into said outer longitudinal groove of a like block and an inner longitudinal rib positioned to fit into said inner longitudinal groove of said like block; an outer circumferential wall connecting said sides at the outer edges thereof; an inner circumferential wall connecting said sides at the inner edges thereof; and a single intermediate circumferential wall connecting said side intermediate said outer wall and said inner wall overlapping at said first side said center rib and at said second side said inner rib.

1,676,386. LUBRICATING SYSTEM. ERNEST W. DAVIS, Oak Park, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 21, 1924. Serial No. 694,379. 15 Claims. (Cl. 221—47.4.)



1. A lubricant compressor comprising a barrel having a removable cap at one end, a rod secured to said cap and exteding inwardly into said barrel, a portion of said rod adjacent to its inner end being reduced in diameter, a piston slidably mounted on said rod, a sleeve secured to the other end of said barrel and comminicating therewith, said sleeve forming a high pressure cylinder, a valve seat clamped between said sleeve and barrel, an outwardly opening valve coacting with said seat, a flexible washer slidably mounted in said sleeve, a metal ring encasing the edge of said washer, a cup leather having its bottom abutting said said washer, a displacer having one end positioned in said cup leather, an outwardly opening valve in said displacer, a second ring surrounding said displacer and bearing against the edge of said cup leather, and a compression spring abutting said valve seat and said second ring.

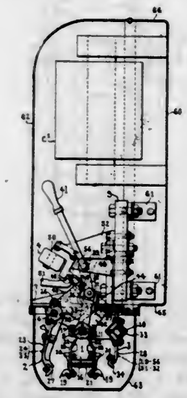
1,676,387. BATTERY CONNECTER. ALFRED C. DE LORME, Newark, N. J. Filed Oct. 14, 1927. Serial No. 226,080. 7 Claims. (Cl. 173—259.1.)



1. A battery connecter made from; a T shaped punched blank having its stem formed to grip an electrical cable and its arms formed to engage a battery terminal post, and means for drawing said arms securely around said battery post.

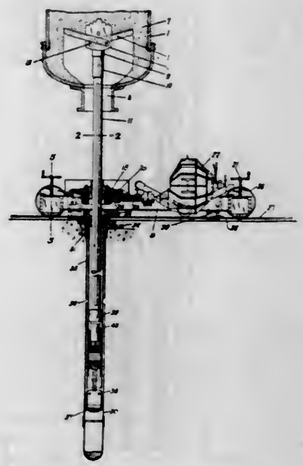
1,676,388. MOTOR STARTER. CLARENCE T. EVANS, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 2, 1924. Serial No. 741,104. 10 Claims. (Cl. 200—5.)

10. In a motor controller, in combination, two sets of movable contacts, a set of stationary contacts, one set of said movable contacts being adapted to cooperate with said stationary contacts to establish starting connections and being also adapted to cooperate with the other set of said movable contacts to establish running connections, operating means for said movable contacts including a member having an extreme position corresponding to starting relation of said contacts and another extreme position corresponding to running relation of said contacts, said means insuring cooperation of said contacts



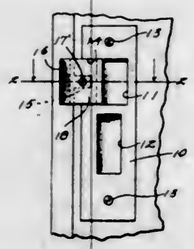
in starting relation prior to their cooperation in running relation, and said contacts being returnable directly from running relation to neutral relation while said member is maintained in its last mentioned position, and electromagnetic means for holding certain of said contacts in a given extreme position upon establishment of running connections.

1,676,389. METHOD OF CLEANING SOAKING DRUMS. HAROLD WHEELOCK FLETCHER, Houston, Tex. Filed Nov. 9, 1925. Serial No. 68,040. 3 Claims. (Cl. 83—6.)



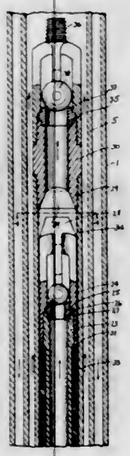
1. A method of clearing solid material from metallic soaking drums having a constricted opening in the lower end thereof, comprising introducing a rotary boring tool within said opening and cutting an upward passage through said material of substantially larger diameter than said opening, then cutting away the material from the walls of said passage until the material is entirely removed.

1,676,390. STRIKER PLATE FOR LOCKS. JESS EARL HALFERTY, Manhattan, Kans. Filed Dec. 10, 1927. Serial No. 239,190. 5 Claims. (Cl. 70—15.)



1. A striker plate having the usual latch bolt opening and having the material thereof cut-away at its opposite side faces in alignment with said opening to produce a reduced portion, said reduced portion having a slot and a stirrup having a slot to receive the reduced portion, said slot being of greater width than the reduced portion and means extending through the arms of the stirrup produced by the slot for clamping said arms upon the reduced portion.

1,676,391. PUMP. GRANVILLE A. HUMASON and WILLIAM L. CHILDS, Houston, Tex.; said Childs assignor to Reed Roller Bit Company, Houston, Tex., and said Humason assignor to J. A. Logan, Harris County, Tex. Filed May 14, 1926, Serial No. 109,137. Renewed May 18, 1928. 7 Claims. (Cl. 103—180.)



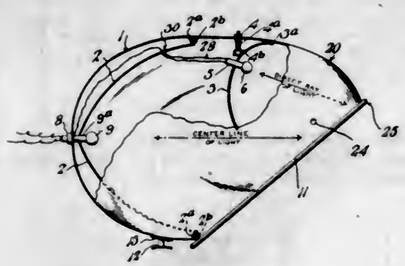
1. A pump comprising a pump barrel, a standing valve at the lower end thereof, said valve including a tube, a valve at the upper end and packing rings on the outer face thereof, a plunger adapted to telescope over said standing valve and means on said plunger to engage said standing valve to compress said packing.

1,676,392. CALLING DEVICE. HARRY H. IDE, La Grange, Ill., assignor to Kellogg Switch Board and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 18, 1920. Serial No. 431,561. 8 Claims. (Cl. 179—90.)



1. An impulse transmitter for automatic telephone systems, comprising a rotary shaft, a finger hold device to rotate said shaft, a coil spring to rotate said shaft when released and transmit the impulses, said spring having an unadjustable connection with a member of said device, a second member of said device connected to said spring and rotatable by hand with respect to said shaft, to adjust the torsion of said spring, apparatus including a radially extending detent fixed to the shaft, and means on said second member to be engaged thereby to hold said spring under any of its adjustable torsions with respect to the shaft, and contact springs controlled by said detent.

1,676,393. HEADLIGHT. CHARLES N. KISECKER, Dayton, Ohio. Filed Jan. 6, 1927. Serial No. 159,333. 4 Claims. (Cl. 240—41.)

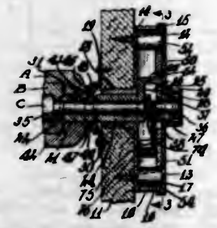


1. A headlight comprising a helmet-shaped casing with an oval opening in front portion thereof, a reflector within said casing, a second reflector movably mounted to inner top of said casing, adjustable means for focusing said second reflector affixed to the rear thereof, two sources of light one within each reflector, said second reflector and casing confining the projected and reflected rays of light from said lights and reflectors to a predetermined area, a lens disposed at an angle of approximately 45 degrees over said oval opening, the upper source of light being hidden from view by front curved portion of said casing.

1,676,394. PERMUTATION DOUBLE LOCK. JOHAN KONKUS, Fords, N. J. Filed Oct. 13, 1927. Serial No. 225,885. 3 Claims. (Cl. 70—53.)

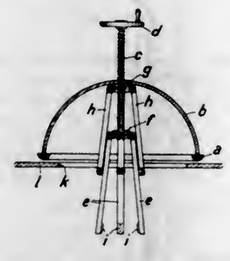
1. In a lock of the class described, a casing, slidable bolts within the said casing, latch members engageable with the bolts a tubular shank passing within the said

casing and means thereon to actuate the said bolts, a dial element on the outer extremity of the said tubular shank, a knob rotatably mounted about the said dial element, a central shaft passing through the said tubu-



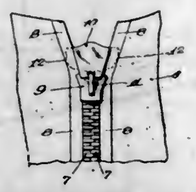
lar shank, a dial element on the said shaft, means on the said central shaft to actuate the said latches within the said casing, and suitable characters on the face of the said dial elements.

1,676,395. APPARATUS FOR STOPPING LEAKS, ESPECIALLY IN THE BOTTOM AND SIDE WALLS OF SHIPS' HULLS. BRUNO HUGO KÖRNER, Dohna, near Pirna, Germany, assignor of one-half to Emil Pietzsch, Dohna, near Pirna, Germany. Filed Apr. 5, 1927. Serial No. 181,210, and in Germany Mar. 31, 1926. 1 Claim. (Cl. 114—228.)



An apparatus for stopping leaks especially in ships' hulls and bottom, comprising in combination a hood of steel to be placed onto the ship's hull to cover the leak, a rubber packing on the edge of said hood, a screw spindle screwed into the apex of said hood, a hand-wheel on the outer end of said screw-spindle, a nut on the inner surface of said hood and serving to guide said screw-spindle, a collar mounted on the inner end of said screw-spindle, arms hingedly fixed to said collar, a rubber pad on the outer surface of each arm, and stays hingedly fixed at the upper end to said nut and at the lower end to a corresponding arm, substantially as described and shown.

1,676,396. SEPARABLE FASTENER. CLARA KRANZ, Chicago, Ill. Filed Jan. 27, 1928. Serial No. 249,783. 6 Claims. (Cl. 24—205.)



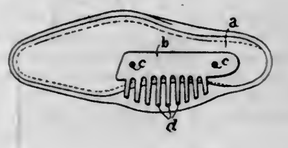
1. In a separable fastener having stringers, coacting locking jaws thereon, and a slider, slidably mounted on said jaws, a finger piece loosely connected to said slider and having a pair of laterally projecting rearwardly offset wings adapted to engage the edges of the stringers and behind the edge portions.

1,676,397. DOUBLE-SIDED CUFF FOR MEN'S SHIRTS, BLOUSES, AND THE LIKE. JOSEF LANZ, Mendrisio, Switzerland. Filed Nov. 1, 1926, Serial No. 145,597, and in Switzerland Oct. 1, 1926. 1 Claim. (Cl. 2—123.)



Double-sided reversible soft cuff, including a strip of material attached by its longitudinal edges to a shirt sleeve and folded into four equal layers stitched together at the center of their width by a seam constituting the folding line for the reversible parts of the cuff, said cuff having at each lateral end two button holes near said seam, the button holes at the same ends of the cuff being adapted in one position of the cuff to register one with the other on one side of said seam, the same button holes being positioned one above the other at different sides of the seam when the cuff occupies another position.

1,676,398. FOOT-ARCH SUPPORT. PAUL LENGEMANN, Bremen, Germany. Filed Jan. 26, 1926, Serial No. 83,795, and in Germany Mar. 16, 1925. 1 Claim. (Cl. 36—71.)

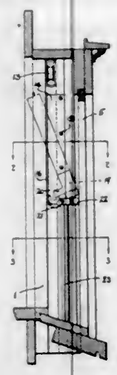


A shoe having incorporated therein a metallic arch support comprising a body portion permanently secured to the insole and provided on its inner side with a plurality of approximately equally spaced and parallel narrow, resilient, integral teeth, said teeth extending from between the outsole and insole against the upper of the shoe to support the arch of the foot, and the spaces between the teeth being of sufficient width to allow securing means to be passed through said spaces.

1,676,399. WINDOW. CLAUDE A. LEWIS, Houston, Tex., assignor to American Window Company, a Corporation of Delaware. Filed Sept. 7, 1926. Serial No. 133,930. 6 Claims. (Cl. 20—49.)

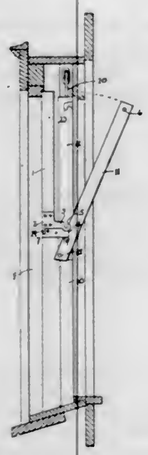
1. In a window a casing, including an upright jamb, the inner face thereof being plane except for a sash

channel therein and a marginal groove, a lower sash, a rider on said sash slidable within said channel, a plate



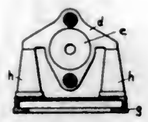
of sheet metal approximately closing said channel at the upper portion thereof, and an upper sash fitting in said casing and adapted to swing inwardly across said plate.

1,676,400. MOUNTING FOR WINDOW SASHES. CLAUDE A. LEWIS, Houston, Tex., assignor to American Window Company, Houston, Tex., a Corporation of Delaware. Filed Dec. 14, 1926. Serial No. 154,665. 9 Claims. (Cl. 20—49.)



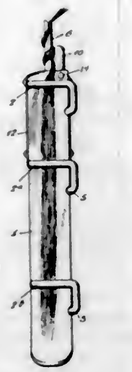
1. In a window, a casing, a lower sash, opposite riders on said sash adapted to slide in channels in said casing, said riders having upper pin-receiving recesses opening forwardly and upwardly, and lower pin-receiving openings inclined to a point forwardly of the line of said recesses, pins on said sash engaging in said openings and recesses, and a stop arm on said casing approximately midway thereof, and means in said rider adapted to contact with said arm and limit the movement of said rider in an upward direction.

1,676,401. METAL TUBE AND BAR PRESS. HUGO LORANT, Dusseldorf, Germany, assignor to Schloemann Aktiengesellschaft, Dusseldorf, Germany, a Corporation of Germany. Filed May 20, 1927. Serial No. 192,821. and in Germany July 10, 1926. 3 Claims. (Cl. 207—1.)



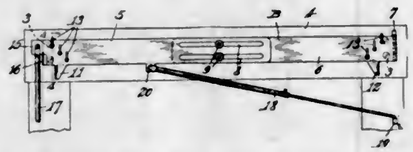
1. In a horizontal metal tube extrusion press, the combination with the base-plate, of an hydraulic cylinder mounted thereon, a press-plunger in said cylinder, an ingot receiver, and means unaffected by the heat imparted to said ingot receiver for supporting the same in a horizontal central plane so as to permit free expansion in all directions without displacement of the central axis of said receiver.

1,676,402. HAIR WINDER. CARL MACK, New York, N. Y., assignor, by mesne assignments, to Samuel Bonat and Harry Bonat, constituting the firm of Samuel Bonat & Bro., New York, N. Y. Filed June 29, 1926. Serial No. 119,359. 4 Claims. (Cl. 132—33.)



1. In a hair winder, the combination of an elongated member adapted to be moved along a curling rod, friction means on said member for engaging the rod, a plurality of spring clips spaced along said member for holding the hair tautly thereon, and means for releasing the pressure of said clips.

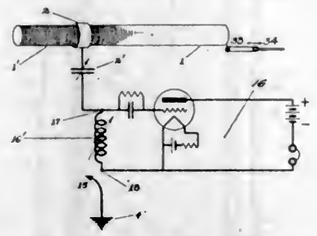
1,676,403. COMBINED WINDOW SHADE AND DRAPERY SUPPORT. GLADYS FANNIE MALLORY, Martins Ferry, Ohio. Filed Mar. 6, 1926. Serial No. 92,918. 1 Claim. (Cl. 156—23.)



A holder for shade and drapery fixtures, comprising a sectional bar for mounting stationarily upon a window casing, said bar having a hinge member formed at one

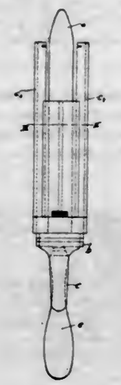
end thereof and carrying an outstanding lug at its opposite end, a sectional bar adapted for outward swinging movement relative to the first mentioned bar and having at one end thereof a hinge member complemental to that of said first bar and connected to the latter, the last mentioned bar having a portion adapted to rest normally upon said lug, curtain-rod and shade-roller supports carried by said second bar, means connected to and depending from said second bar whereby the latter may be elevated by hand into and out of supported relation to said lug, and a pivoted supporting brace having connection with said second bar and upon which the latter is supported in its outwardly swung position.

1,676,404. SYSTEM OF RADIO COMMUNICATION. JOSEPH O. MAUBORGNE and GUY HILL, Washington, D. C. Filed Feb. 17, 1921. Serial No. 445,880. 11 Claims. (Cl. 250—20.)



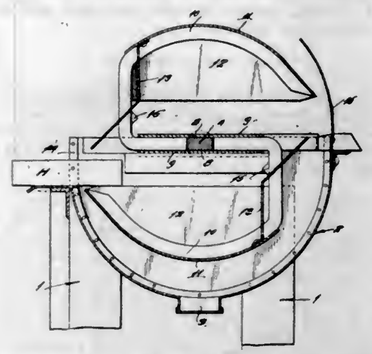
1. A system for receiving radio signals comprising a wave coil antenna upon which signals are directly received, means for detecting said signals, one terminal of said detecting means being connected to an adjustable metal ring slidable along said wave coil and capacitively connected therewith, the other terminal of said detecting means being grounded.

1,676,405. HAIR-WAVING TONGS. LOUISE ROBADEY-MARGOT, Geneva, Switzerland. Filed May 31, 1927. Serial No. 195,526, and in Switzerland June 2, 1926. 3 Claims. (Cl. 132—32.)



1. A pair of waving tongs comprising a plain jaw, a toothed jaw carrying two lateral combs, a longitudinally movable member in slidable engagement with the toothed jaw and provided with jaws of teeth parallel with the lateral combs, and means for pivotally connecting the said plain jaw and toothed jaw.

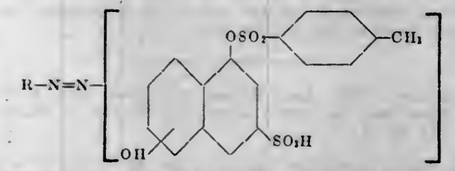
1,676,406. SANDING DEVICE. WILLIAM H. MCCLELLAND, Huntingdon, Pa., assignor, by mesne assignments, to Roy P. M. Davis, Mount Union, Pa. Filed Dec. 15, 1924. Serial No. 755,941. 6 Claims. (Cl. 25—117.)



1. In a device of the class described, the combination of a material retaining hopper and a mold carrying element rotatable therein, means for periodically moving said element from a receiving to a discharging position, and a second means for locking said element in either of said positions.

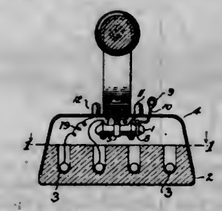
1,676,407. HYDROXY-NAPHTHALENE-ARYLSULPHOESTER AZO DYESTUFF AND PROCESS OF MAKING THE SAME. WILHELM NEELMEIER, Leverkusen, near Cologne-on-the-Rhine, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed July 21, 1926. Serial No. 124,089, and in Germany Aug. 2, 1924. 4 Claims. (Cl. 260—94.)

4. As new products, the mono-azo dyestuffs having in the free state most probably the formula:



wherein R stands for an aromatic nucleus, wherein the OH group is in either the 6- or 8-position in the naphthalene nucleus, and wherein the naphthalene nucleus may be further substituted by a sulphonic acid group, which dyestuffs are red powders, soluble in water and in concentrated sulphuric acid with a rod color, dye wool level red shades fast to light and milling, and yield on reduction an aromatic amine and an amino-hydroxy-naphthalene-arylsulphoester sulphonic acid.

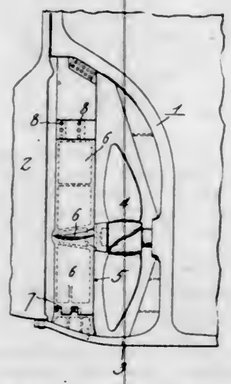
1,676,408. MERCURY SWITCH. JAMES P. O'SHEA, New York, N. Y., assignor to Cooper Hewitt Electric Company, a Corporation of New Jersey. Filed Nov. 21, 1923. Serial No. 675,981. 2 Claims. (Cl. 219—25.)



1. In an electric flatiron, in combination, a body having an electric heating element and a pivotally mounted switch for said element therein, a handle grip-

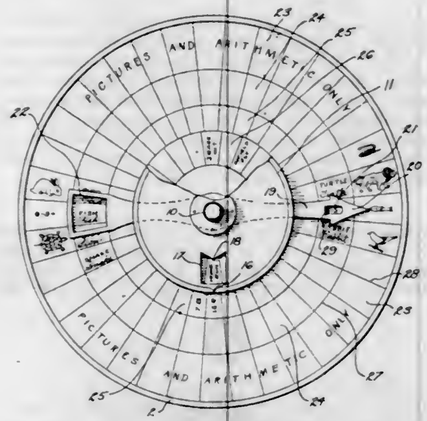
ping member for said iron, and two strap connections between said handle and said iron one of which has a moving connection to said iron and a pivotal connection to said switch and the other of said straps being in the form of a spring tending to move and hold said switch in the open circuit position.

1,676,409. REMOVABLE CONTRAPROPELLER. OLAV OVERGAARD, Brooklyn, N. Y., assignor to Star Contra Propeller Ltd. A/S., Oslo, Norway, a Corporation of Norway. Filed Nov. 25, 1927. Serial No. 235,511. 2 Claims. (Cl. 115—34.)



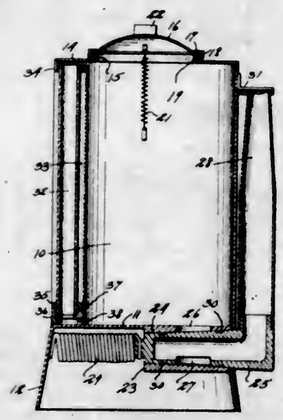
1. The combination with the main propeller of a vessel, of a contra-propeller in axial alignment therewith, the said contra-propeller having at its lower end a pivotal support adapted to allow the contra-propeller to be swung sidewise out of line with the main propeller for the purpose of removing the latter.

1,676,410. TOY. LEON RIVERA PAUL, New York, N. Y. Filed May 26, 1927. Serial No. 194,344. 1 Claim. (Cl. 35—2.)



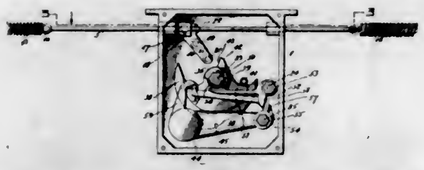
A device of the class described including a body having concentric series of spaces, a central bearing pin upstanding from the body, an indicator mounted to rotate freely on the pin and provided with a head for indicating any one of the spaces of one series and an aperture in the tail portion of the indicator through which any one of the spaces in the next adjoining series will be displayed, there being data displayed in the spaces of the outer series and in the spaces of the next adjoining series, a disk mounted to rotate freely upon and be supported by the pin and adapted to wabble on the pin, a knob rotatable with the disk, there being an aperture within said disk through which any one of an added series of spaces will be displayed, said disk, while rotating and wabbling, constituting means for intermittently engaging the indicator frictionally, thereby to rotate the same.

1,676,411. DUST-PROOF OIL-DISPENSING VESSEL. WILLIAM H. PEADEN, Tulsa, Okla., assignor to R. D. Donnelly and B. R. Graham, Tulsa, Okla. Filed Mar. 9, 1927. Serial No. 173,963. 3 Claims. (Cl. 221—26.)



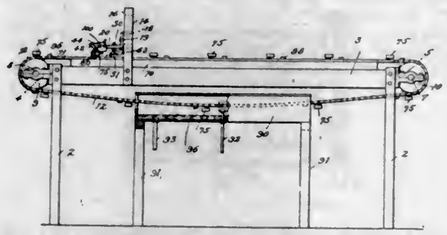
1. A dispensing vessel having a cylindrical, inwardly tapering valve casing having an inlet port communicating with the interior of the vessel and a discharge spout having an angularly disposed, tapering valve portion having liquid tight engagement with the casing and having a port adapted as the spout is lowered to be brought gradually into registry with the port in the valve casing, and a spring operatively connected at one end to the wall of the passage and at its other end to said valve portion and urging the valve portion of the spout into the casing and against its seat therein and yieldingly urging the spout to a raised position.

1,676,412. ALARM SIGNAL FOR AUTOMOBILES. WILLIAM A. PERVIER, Watertown, Mass., assignor, by mesne assignments, to William A. Pervier, trustee. Filed Jan. 16, 1926. Serial No. 81,773. 5 Claims. (Cl. 177—339.)



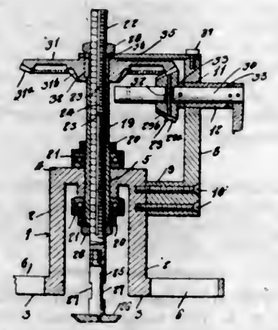
1. In a motor vehicle having a foot brake the combination comprising a warning signal, means for actuating the signal, and means co-operating between the foot brake mechanism of the vehicle and the signal actuating means whereby a relatively slow application of the brake leaves the signal unaffected and whereby a relatively rapid application of the brake causes the signal to be operated.

1,676,413. FRUIT SEEDER. ARTHUR S. PLOWMAN, New York, N. Y., assignor of one-fifth to Salvatore A. Danna, New York, N. Y. Filed Aug. 20, 1924. Serial No. 733,076. 2 Claims. (Cl. 146—17.)



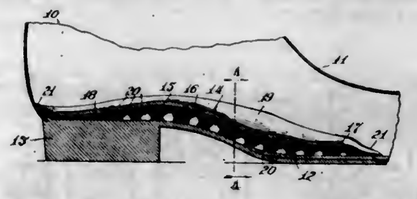
1. In a machine of the character described, the combination of an endless travelling member, a plurality of receptacles carried by said travelling member, means for slitting the fruit, means for ejecting the seed, means for engaging and guiding the seed, and a plurality of moistening devices carried by the travelling member adapted to engage and moisten the fruit slitting, seed guiding and seed ejecting means.

1,676,414. VALVE-RESEATING MACHINE. ANTHONY ROMANO and RALPH VITALE, Brooklyn, N. Y. Filed July 14, 1925. Serial No. 43,551. 1 Claim. (Cl. 90—12.5.)



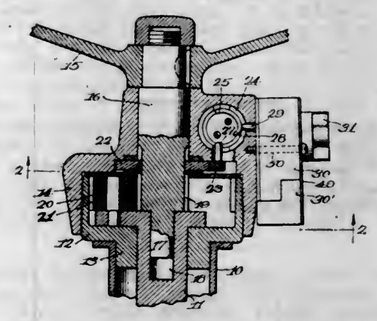
A valve reseating machine comprising an inverted U-shaped attaching and supporting bracket provided in its cross member with a bearing, arms extending outwardly from the side members of the bracket and provided with longitudinally extending slots, a sleeve extending through the bearing, elements carried by the sleeve at opposite sides of the cross member, bearings surrounding the sleeve and positioned between the elements and cross member, a threaded spindle carried by the sleeve for endwise adjustment with respect thereto, means preventing any relative rotation between the sleeve and spindle, retaining elements mounted on the spindle and contacting with the ends of the sleeve, an arm secured to the bracket and extending beyond the same in parallel relation to the sleeve, a strap secured to the arm and having an opening for the reception of the sleeve, a gear keyed to the sleeve, and provided with inner and outer rows of teeth, a shaft journaled in said last arm between said cross member and gear and extending inwardly and outwardly beyond the rows of teeth of the gear, a pinion provided with inner and outer rows of teeth and adjustably mounted on the shaft for engagement with one of the rows of teeth of the gear, and means for securing the pinion in adjusted position on the shaft.

1,676,415. ARCH SUPPORT. PERRY SAPERSTON, Chicago, Ill. Filed July 21, 1921. Serial No. 486,503. 2 Claims. (Cl. 36—71.)



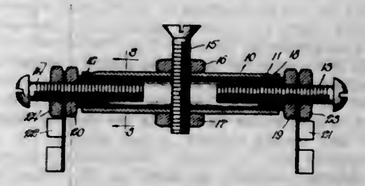
1. In combination, a flexible insole and a flexible and resilient body of material secured to one surface of said insole and substantially co-extensive therewith, said body having two distinct elevations merging into each other and adapted to conform to the longitudinal arch and the transverse metatarsal arch of the human foot in normal relationship, the longitudinal center lines of said elevations having such an angular relation that the elevations underlie the said longitudinal and transverse metatarsal arches.

1,676,416. COMBINED STEERING WHEEL AND IGNITION LOCK. FRANKLIN W. STEWART, Chicago, Ill. Filed Jan. 12, 1925. Serial No. 1,724. 3 Claims. (Cl. 200—44.)



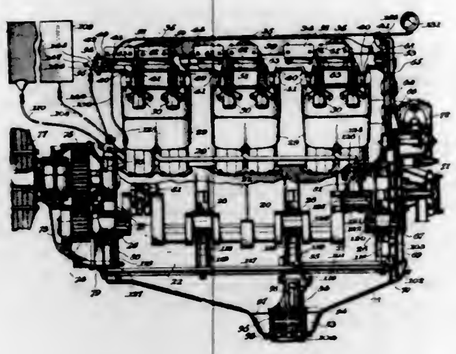
1. A device of the class described comprising a block of insulating material having opposite recesses, two pairs of oppositely arranged contacts thereon, said contacts being arranged to provide a circular stepped path in one of said recesses, a circuit closing member arranged to bridge opposite contacts, a rotatable shaft for turning the same, a pair of circuit terminals representing two independent circuits, a third terminal representing a circuit common to the two, and a second switch in said other recess arranged to open said common circuit.

1,676,417. ELECTRICAL CONDENSER. EDWIN S. TRUE, Oak Park, Ill. Filed Aug. 9, 1923. Serial No. 656,494. 9 Claims. (Cl. 175—41.5.)



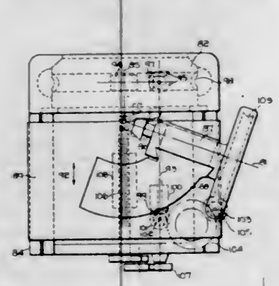
1. An electrical condenser comprising a conductive tube forming one electrode, a threaded conductor extending an adjustable distance therein and its threaded portion forming a second electrode, and a threaded insulating support for receiving said threaded conductor.

1,676,418. HYDROCARBON MOTOR. JESSE G. VINCENT, Dayton, Ohio, assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed June 10, 1918. Serial No. 239,206. 40 Claims. (Cl. 184—6.)



1. In a hydrocarbon motor, in combination, a tubular casing divided by bearings into several compartments, a cam shaft in said casing mounted in said bearings, rock shafts mounted in the upper part of said casing and operated by said cam shaft, means for feeding oil to said casing, and means including the cam shaft for splashing oil to the bearings of said rock shafts.

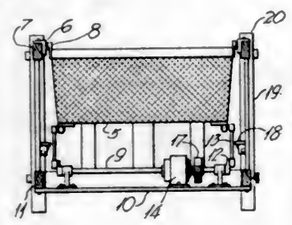
1,676,419. METHOD OF AND MACHINE FOR PRODUCING GEARS. ERNEST WILDHABER, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed June 22, 1925. Serial No. 38,725. 31 Claims. (Cl. 90—9.)



1. The method of producing gears which consists in moving a tool across the face of a gear blank while imparting an additional relative movement between the tool and blank as of a gear rolling on a helicoidal segment provided with teeth of constant profile and constantly inclined with respect to its axis.

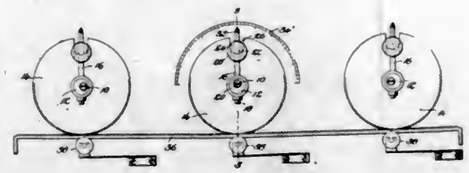
20. In a machine for producing gears, a frame, a support oscillatably mounted on the frame, a support slidably mounted on the frame, said last named support being movable in a direction parallel to the axis of oscillation of said first named support, a tool mounted on one of said supports for movement independently thereof, a blank spindle rotatably mounted on the other of said supports, means for moving the tool relative to its support across the face of the blank and means for simultaneously and in timed relation rotating the blank spindle on its axis and imparting to said supports their respective movements relative to the frame.

1,676,420. CRADLE. PRESTON W. ANDERSON, Los Angeles, Calif. Filed Jan. 31, 1927. Serial No. 164,711. 1 Claim. (Cl. 5—109.)



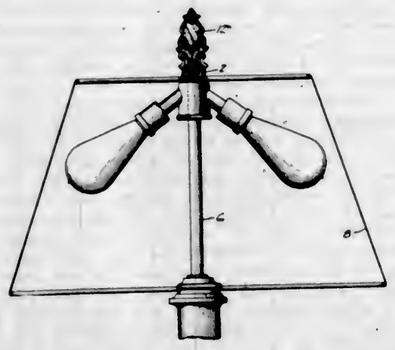
In a rocking cradle of the class described, the combination with a bed spring, of a collapsible frame, a basket, means for oscillatably and removably mounting the basket in the said frame, brackets positioned on the inside of the said frame suitably to receive the said bed spring when the said basket is removed from the frame; and means for oscillating the said basket, the said means comprising a support board, means removably mounting the support board on said frame, a shaft journaled on the support board, cranks positioned on the ends of the shaft, connecting links pivoted to the said cranks and the said basket, and means for rotating the said shaft.

1,676,421. GEARING. DORSEY F. ASBURY, Broomes Island, Md. Filed Feb. 27, 1926. Serial No. 91,197. 10 Claims. (Cl. 74—7.)



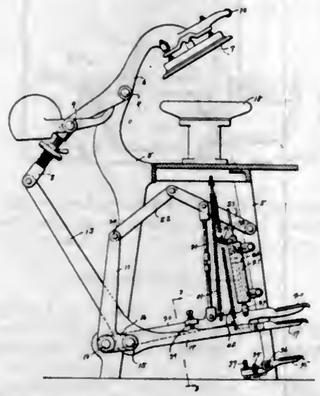
1. In mechanism of the class described, a rotatable shaft, an eccentric rotatably adjustable on said shaft, a gear wheel rotatably adjustable on said eccentric, and a rack for driving said gear

1,676,422. FINIAL. HARRY A. BEST, Chicago, Ill., assignor to H. A. Best Lamp Company, Chicago, Ill., a Corporation of Illinois. Filed July 21, 1927. Serial No. 207,544. 8 Claims. (Cl. 41—10.)



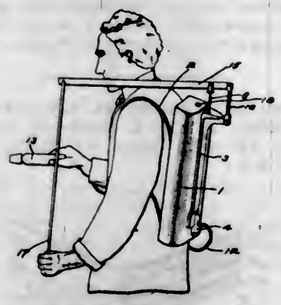
8. A finial comprising a relatively flat body having an internal recess opening through the edge of the body to permit the insertion therethrough of an ornate piece, the opening being smaller and of different design than the internal recess whereby the raw edges of the ornate piece are hidden.

1,676,423. GARMENT PRESS. PHILIP N. BRAUN, Syracuse, N. Y., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Oct. 18, 1923, Serial No. 669,230. Renewed Sept. 23, 1927. 13 Claims. (Cl. 68—9.)



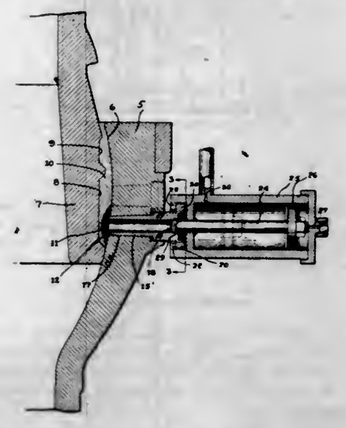
1. A pressing machine combination embodying relatively movable press members, operating means connected with one of the press members to close the press, a release means for opening the press, a dashpot connected with one of the press members to restrain the machine against sudden opening movement when released, means in the dashpot for locking the compressed air therein during the first portion of the stroke, means for releasing rapidly the air to hasten the opening movement during part of the remaining stroke, and means gradually diminishing the air release during the final part of the stroke and opening motion of the press.

1,676,424. LUBRICATING APPARATUS. MOSES F. CARR, Lexington, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 9, 1926. Serial No. 140,526. 1 Claim. (Cl. 221—47.1.)



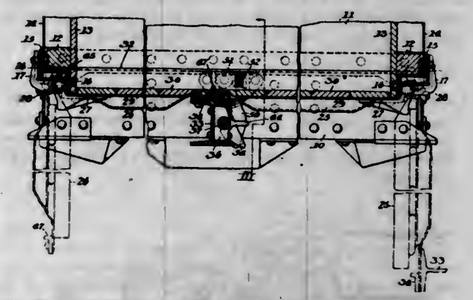
A lubricant compressor adapted to be carried upon the back of the operator comprising a relatively wide and long reservoir, carrying straps attached to one side of said reservoir, a bracket secured to the other side of the reservoir and extending substantially the length thereof, a cylinder casting mounted at the lower end of said bracket, a plunger reciprocable in the cylinder of said casting, a plunger operating rod formed integrally with said plunger and guided at its upper end in said bracket, a link pivoted to said bracket, a lever pivoted to said link and to the end of said plunger operating rod and extending transversely across said reservoir, and a handle pivotally connected to said lever and depending therefrom in the position in which it is adapted to be grasped by the operator when the reservoir is carried upon the operator's back.

1,676,425. APPARATUS FOR PACKING JOINTS. RALPH E. CHAPMAN, Brooklyn, N. Y. Filed Mar. 24, 1923. Serial No. 627,510. 2 Claims. (Cl. 221—78.)



1. In apparatus for packing pipe joints in combination a nipple having its exterior tapered and threaded for a portion of its length to fit a correspondingly tapered and threaded hole in a pipe flange, said nipple having at its outer end a segmental flange, a plunger operable in the bore of the nipple to force packing into the joint, and plunger actuating means having hooks removably attachable to said segmental flange of the nipple.

1,676,426. CAR-DOOR STRUCTURE. ARNOLD CHRISTIANSON and CHRISTIAN CHRISTIANSON, Hammond, Ind. Filed Sept. 2, 1926. Serial No. 133,147. 8 Claims. (Cl. 189—46.)

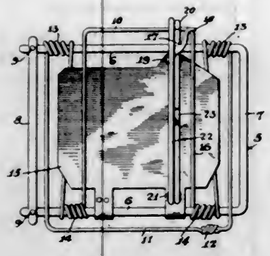


1. The combination with a car body having an opening in one end thereof, of a pair of doors hingedly connected at their outer edges, to said body, and having inter-engaging portions at their inner edges, arranged to prevent relative vertical movement thereof.

1,676,427. TRAP. BERENT O. DAHL, Viroqua, Wis. Filed Mar. 16, 1925. Serial No. 16,073. 2 Claims. (Cl. 43—88.)

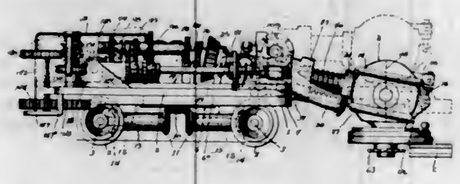
1. A trap comprising a base, a pair of spring urged jaws pivotally supported on opposite sides of the base and adapted to swing one within the other, a trigger rod

pivotally mounted on one of the jaws having an arm adjacent the pivoted end thereof and adapted to serve as an abutment for the other jaw when trap is set and thereby urge the end of said rod outwardly, a treadle



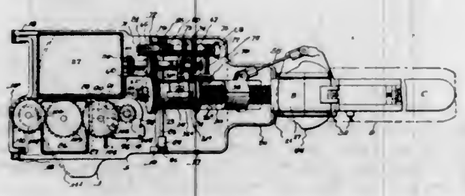
pivotally mounted on the base, said treadle having an opening, the free end of said rod being adapted to be inserted within the said opening when the trap is set whereby upon the depression of the said treadle the trap is sprung.

1,676,428. MINING MACHINE. CHARLES E. DAVIS, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 29, 1925. Serial No. 33,624. 14 Claims. (Cl. 262—28.)



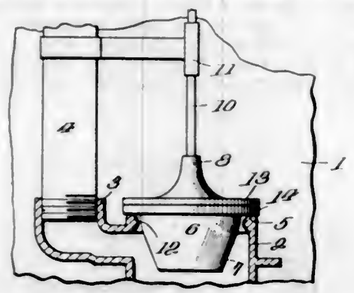
1. In a mining machine, the combination of a turntable, a platform mounted on said turntable and adapted to be tilted at an angle thereto, cutting mechanism mounted on said platform, a motor in driving connection with said cutting mechanism, and platform tilting mechanism in driving connection with said motor.

1,676,429. MINING MACHINE. CHARLES E. DAVIS, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 4, 1926. Serial No. 92,121. 11 Claims. (Cl. 262—28.)



1. In a mining machine, the combination of a wheeled carriage, a turntable mounted on said carriage, an elevating platform tiltably mounted on said turntable, cutting mechanism mounted on said platform, driving mechanism for said cutting mechanism mounted on said platform, and independent driving mechanism mounted on said turntable for operating the same.

1,676,430. FLUSH-VALVE FLOAT FOR FLUSH TANKS. EDWARD L. DELANY, Brooklyn, N. Y., assignor to Delany Realty Corporation, Brooklyn, N. Y. Filed Sept. 29, 1925. Serial No. 59,368. 2 Claims. (Cl. 4—56.)



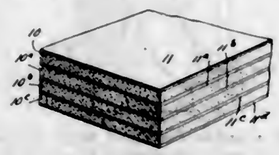
1. A flush valve float comprising a hollow body portion of hard rubber having a horizontal annular flange, and a seating surface vulcanized to the lower face of said flange.

1,676,431. AUTOMOBILE HOOD ILLUMINATION. CLIFFORD K. DENMAN, Los Angeles, Calif. Filed Mar. 8, 1927. Serial No. 173,679. 2 Claims. (Cl. 240—8.11.)



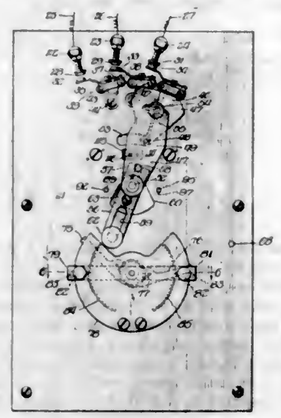
1. In combination with the hood of a vehicle an illuminating device extending along the top thereof, said illuminating device extending along the hood and cowl from the windshield support to the radiator filler cap and terminating in an ornamental design in front of the radiator filler cap, a horizontal top plate supported above the top surface of the vehicle, side plates extending perpendicularly from the edges of the top plate to the surface of the vehicle, said side plates having ornamental openings therein and terminating at their bottom edges in flanges whereby the device is secured to the vehicle, strips of colored glass adjacent the inner sides of the side plates effectively covering the ornamental openings and lamp bulbs conventionally mounted on the under side of the top plate whereby the device is illuminated.

1,676,432. PACKING MATERIAL AND GASKET MADE THEREFROM. FRANCIS L. DIETERICH, Newark, N. J. Filed Apr. 10, 1925. Serial No. 22,112. 4 Claims. (Cl. 154—45.5.)



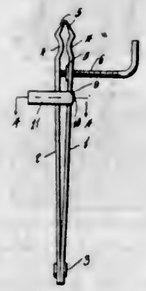
1. As a new article of manufacture, a sheet packing comprising flat, laminated, adherent sheets of vulcanized fiber arranged on opposite sides of a medially-disposed sheet of granulated cork whereby a composite is provided in which the vulcanized fiber reinforces the structure, resists rupture, prevents disintegration on compression, and guides the expansive force of the cork sheet to seal and to keep a joint tight.

1,676,433. ELECTRICAL SWITCHING MECHANISM. ARTHUR J. EVERS, Chicago, Ill. Filed Apr. 8, 1926. Serial No. 100,582. 12 Claims. (Cl. 200—92.)



1. In an electric switching appliance of the character described, the combination of a plurality of electric-switches, substantially constant-speed driving means, switch-operating means common to all of said switches and including a pair of movable members, independently adjustable stops against which said members respectively bear when inactive, and means actuated by said driving means to operate said members in alternation.

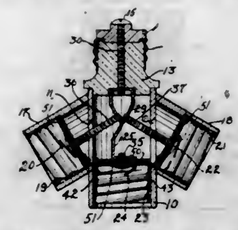
1,676,434. SPREADER FOR DISTANCING SPACED PIPES AND THE LIKE. GEORGE A. FURNEAUX, The Dalles, Oreg. Filed Mar. 8, 1927. Serial No. 173,732. 4 Claims. (Cl. 81—3.)



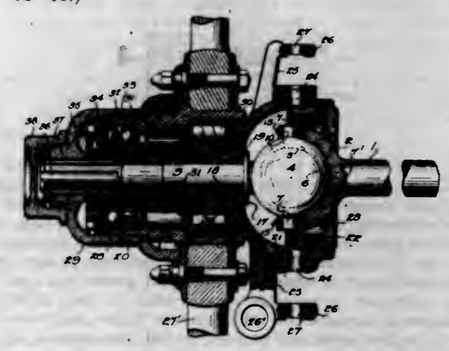
1. A spreader for distancing spaced pipes and the like, comprising spring arms secured together and having recesses opening outwardly of the arms to seat between articles to be distanced, and a screw threadedly engaging one of said arms and terminally engaging the other arm.

1,676,435. MULTIPLE SOCKET. ISAAC F. GILES, Yonkers, N. Y., assignor to Ilelte Electric Manufacturing Corporation, Tuckahoe, N. Y., a Corporation of New York. Filed June 15, 1925. Serial No. 37,029. 3 Claims. (Cl. 173—335.)

1. A multiple socket comprising an insulating cylindrical sleeve open at its opposite ends and having an opening in its cylindrical surface, a second cylindrical sleeve separate from the first, lying at an angle thereto and having the end of its wall concaved to engage the cylindrical surface of the first sleeve about the opening therethrough, metallic shells in the free end portions of the two sleeves, a plug at the other end of the first mentioned sleeve, and means within the sleeves for holding the shells and other contacts in place and for holding the two sleeves together.



1,676,436. FRONT-WHEEL DRIVE FOR MOTOR VEHICLES. FRANK B. HAMLIN, Evanston, Ill. Filed Dec. 3, 1923. Serial No. 678,328. 4 Claims. (Cl. 64—91.)



1. A universal joint comprising a drive member, a driven member, a ball formed on the end of one of said members, a socket formed on the end of the other member, said ball being provided with an arcuate groove, an arcuate key mounted in said groove, trunnions formed on the end of said key, said socket being provided with diametrically opposite similarly shaped recesses formed in its edge, said recesses being widest at points remote from the edge of the socket and bearing members shaped to fit said recesses and mounted therein, said bearing members being adapted to receive said trunnions.

1,676,437. PROCESS FOR THE MANUFACTURE OF YEAST. ARTHUR PENNOYER HARRISON, Yonkers, N. Y., assignor to The Fleischmann Company, New York, N. Y., a Corporation of Ohio. Filed Oct. 19, 1925. Serial No. 63,448. 7 Claims. (Cl. 195—20.)

1. A process of manufacturing yeast including the steps of propagating yeast in a fermenter with aeration in a yeast nutrient solution until said solution has reached an approximately constant Balling, withdrawing a portion of the yeast-containing liquid, restoring approximately the initial conditions of volume and density in the fermenter by the addition of yeast nutrient materials, and repeating the propagation with aeration.

1,676,438. SHUTTLE. WILLIAM H. HARRISON, Philadelphia, Pa.; Nellie Harrison executrix of said William H. Harrison, deceased. Filed Jan. 15, 1927. Serial No. 161,276. 6 Claims. (Cl. 139—213.)

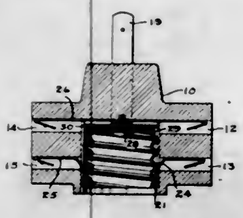
1. A removable lining for the bobbin recess in a weaver's shuttle comprising a fur-like material, a backing

therefor, consisting of a relatively stiff shoe having bottom and side portions and supporting the fur-like material



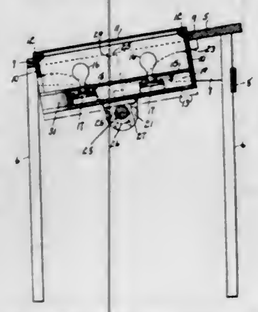
substantially throughout the entire contour thereof, means for attaching said material to said backing, and means for retaining said lining within said recess.

1,676,439. THREE-WAY ELECTRIC PLUG. WILLIAM ILE, Little Falls, N. J., assignor to Ileite Electric Manufacturing Corporation, Tuckahoe, N. Y., a Corporation of New York. Filed Mar. 19, 1925. Serial No. 16,606. 6 Claims. (Cl. 173—334.)



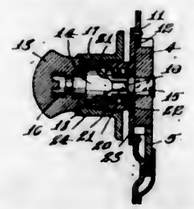
1. In a device of the character described, the combination with a casing of electrical insulating material having a pocket therein, and having a pair of passageways leading outwardly from the pocket in opposite directions, a contact plate extending across the pocket and into one of the passageways on each side of the pocket, a threaded socket member mounted in the pocket and opening outwardly, a separate contact plate in each of the remaining passageways, said separate plates cooperating with the first mentioned plate to provide independent outlets and having a portion thereof in abutting engagement with the socket member to provide electrical contact therewith, inlet current conducting members longitudinally of the pocket, means for electrically connecting one of the members to the socket member, means for electrically connecting the other member to the first mentioned contact plate.

1,676,440. TRACING TABLE. MARY G. JACKSON, New Haven, Conn. Filed Feb. 14, 1927. Serial No. 167,933. 4 Claims. (Cl. 35—12.)



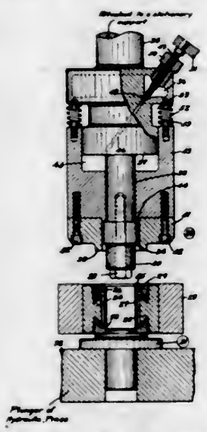
1. As a new article of manufacture, a tracing table comprising a table-top, supports therefor, a bodily-movable rectangular translumineseent tracing-surface of less length and breadth than the said table and adapted to set therein, and means for raising the said surface above the table-top and retiring it to the plane thereof.

1,676,441. MECHANICAL MOVEMENT. SHUMAN R. JACKSON, Syracuse, N. Y., assignor, by direct and mesne assignments, to The Dura Company, Toledo, Ohio, a Corporation of Delaware. Filed Oct. 26, 1923. Serial No. 670,980. 8 Claims. (Cl. 188—69.)



8. A mechanical movement comprising a gear member, a part actuated by said gear member, means engageable with said gear member for locking the same and means for turning said gear member including connections for disengaging said locking means and gear member, said locking means being adjustable relative to said gear member to effect locking engagement therewith when said part actuated by said gear member has been actuated by said gear member to the limit of its movement.

1,676,442. MANUFACTURE OF COMMUTATORS. RUSSELL G. JONES, New York, N. Y., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Sept. 18, 1924. Serial No. 738,549. 6 Claims. (Cl. 29—155.5.)

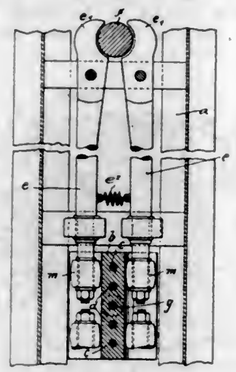


1. The method of making a commutator which comprises assembling an annulus of metal segments having anchoring tangs and spaced by insulation, placing against the ends of the tanks rings of insulating material adapted to soften under heat, forcing metal clamping rings, which have been heated to a temperature sufficient to soften the insulating rings, against said insulating rings with pressure sufficient to cause the insulating rings to be pressed into the surface irregularities of the segments and to cause the tangs to be bent so that the pressure applied to the tangs will be substantially equalized, and in securing the clamping rings in clamping relation while the clamping rings are still at a higher temperature than the segments.

1,676,443. SAFETY DEVICE FOR ELEVATORS AND THE LIKE. JOSEPH KASPE, Charbin, Russia. Filed Mar. 25, 1927, Serial No 178,419, and in Germany Feb. 13, 1926. 7 Claims. (Cl. 187—86.)

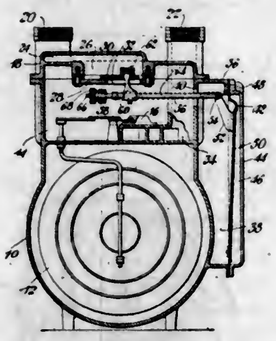
6. In an elevator a safety device comprising in combination with guide rails for the elevator and a counter-

weight, a casing on the elevator, a double sided wedge piece, vertical passages through said wedge piece, a hoisting cable passing from the elevator loosely through the wedge piece over a driving pulley to a cable block on the counterweight and back to the elevator over another driving pulley, an auxiliary cable attached with both its ends to the wedge piece and passing over loose pulleys to a second cable block on the counterweight, the



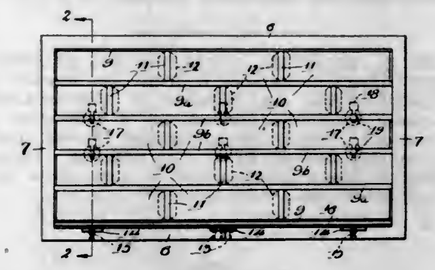
said second cable block being carried by the first cable block, means to vary the distance between the two cable blocks, tongue-like pivoted brake levers having their brake shoes adapted to grip around the guide rails of the elevator, and rollers on the free ends of the brake levers in close proximity to the apex of the said wedge piece so as to be forced apart when the latter ascends in relation to the elevator at the occurrence of a stretch or break in the hoisting cable.

1,676,444. DEMAND LIMITING AND VOLUMETRIC METER. JOHN F. KITCHEN, Erie, Pa., assignor, by mesne assignments, to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 14, 1923. Serial No. 657,326. 7 Claims (Cl 73—1.)



1. The combination with a fluid meter having a mechanism for measuring the quantity of fluid passing therethrough, and means for restricting the rate of flow of fluid through the meter to a predetermined maximum, said means including an enclosed diaphragm having one side subject to pressure on the incoming side of the measuring mechanism and one side subject to pressure on the outgoing side, said diaphragm being responsive to the difference in pressure, a valve actuated by the diaphragm, and operating connections between said valve and said diaphragm.

1,676,445. DISPLAY CASE FOR BRICK. WILLIAM C. KOCH, St. Paul, Minn. Filed Apr. 20, 1925. Serial No. 24,317. 7 Claims. (Cl. 206—78.)

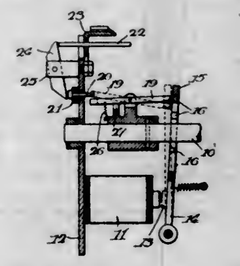


7. In a device of the class described, a tray adapted to receive a plurality of brick samples arranged in rows, a series of parallel spacing strips severally disposed between rows of the samples, said strips being free for lateral movement to permit ready insertion of the samples between them, a flexible bar extending adjacent to the inner face of a side of the tray in parallel relation to the rows of samples and a series of screws threaded in said side of the tray and arranged to extend through said side with their inner ends impinging against said bar whereby all of the samples and strips may be shifted laterally to exert lateral gripping pressure upon the several samples.

1,676,446. PRODUCTION OF ENZYMES FOR USE IN THE MANUFACTURE OF BREAD. HENRY ADOLPH KOHMAN, ROY IRVIN, and ERNEST SALATHIAL STATELER, Pittsburgh, Pa., assignors, by mesne assignments, to The Fleischmann Company, New York, N. Y. Filed Oct. 3, 1921. Serial No. 505,125. 2 Claims. (Cl. 195—20.)

1. The method of producing an enzyme product of fungus origin for use in the manufacture of bread, which comprises cultivating *Aspergillus oryzæ* upon a moist mass of ground hominy containing from 1 to 4 percent by weight, with respect to the hominy, of lactic acid.

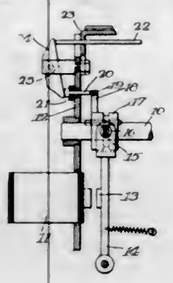
1,676,447. ELECTRIC SELECTING APPARATUS. CHARLES L. KRUM and HOWARD L. KRUM, Chicago, Ill., assignors to Morkrum-Kleinschmidt Corporation, Chicago, Ill., a Corporation of Delaware. Original application filed Dec. 23, 1919, Serial No. 346,948, Patent No. 1,635,486. Divided and this application filed Nov. 4, 1926. Serial No. 146,211. 5 Claims. (Cl. 178—27.)



1. An electric selector mechanism for telegraph receivers comprising a set of selectors, a common actuator for mechanically positioning said selectors, a rotary member for mechanically moving said actuator into relation with said selectors one at a time, a cam having a series of angularly spaced projecting lugs for mechan-

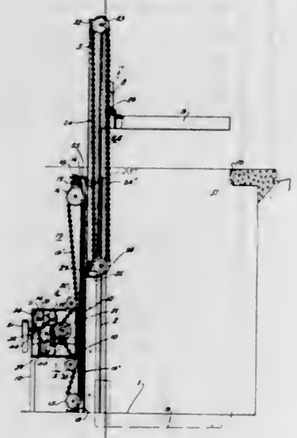
ically shifting said actuator at an angle to its path of movement to position said selectors, and a magnet having an armature mechanically and selectively controlling the selector positioning operations of said cam.

1,676,448. SELECTING APPARATUS FOR ELECTRIC TELEGRAPHS. CHARLES L. KRUM and HOWARD L. KRUM, Chicago, Ill., assignors to Morkrum-Kleinschmidt Corporation, Chicago, Ill., a Corporation of Delaware. Original application filed Dec. 23, 1919, Serial No. 346,948, Patent No. 1,635,486. Divdied and this application filed Nov. 4, 1926. Serial No. 146,212. 6 Claims. (Cl. 178—27.)



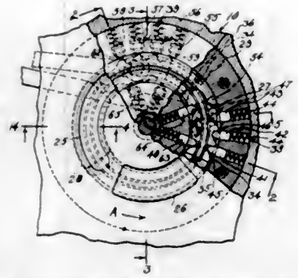
1. A selector mechanism for electric telegraphs comprising a set of selectors, a rotatable, axially movable member for effecting the setting of said selectors, means for rotating said member and a magnet for effecting the axial movements of said member and selectively determining the selector setting operations thereof.

1,676,449. HOISTING MACHINE. FREDERICK J. LEDERER, Buffalo, N. Y. Filed Mar. 21, 1927. Serial No. 176,994. 17 Claims. (Cl. 187—62.)



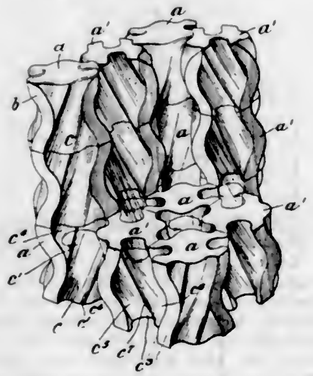
9. An elevator comprising a stationary frame, an extensible frame slidably connected therewith, pulleys on each frame, an endless member for each frame taking over the respective pulleys thereof, the endless member of the stationary frame being connected to the lower part of the extensible frame, and the endless member of the extensible frame having one flight connected to a fixed part of the stationary frame, a platform slidably connected to the extensible frame and fixedly connected to the opposite flight of the endless member of said extensible frame, a closure member for an opening in a wall through which the platform is movable, said closure member being operably connected to the platform, and a skirt depending from the platform.

1,676,450. LOCK. CYRIL W. LE NOUE, Los Angeles, Calif. Filed July 28, 1927. Serial No. 209,057. 2 Claims. (Cl. 194—4.)



1. A lock comprising a casing provided with key slug inlet and discharge openings; a manually operable oscillating member mounted in said casing; a second oscillating member mounted in said casing provided with a socket, key slug engageable means to turn said second oscillatory member; a spring pressed plunger mounted in said casing adapted to engage in said socket; a tumbler adapted to engage in said socket and to be operated by said plunger; a spring pressed piston mounted in said casing and arranged in advance of said plunger, said casing being provided with a socket disposed forward of said piston adapted to receive said tumbler; and a key slug adapted to be engaged by said manually operable member and to operate said plunger and tumbler whereby said plunger will be disengaged from said second oscillating member and said tumbler will be carried forward with said key slug and second oscillating member and become deposited in the socket disposed forward of said piston.

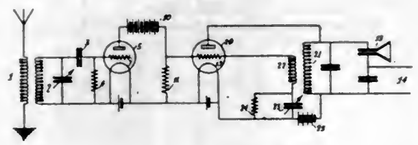
1,676,451. PACKING OR FILLING BODY. FRIEDRICH LILGE, Oberhausen, Germany. Filed Dec. 18, 1924, Serial No. 756,646, and in Germany Oct. 6, 1924. 5 Claims. (Cl. 261—95.)



1. A building block comprising a quadrifoliate-shaped body provided upon its exterior at quarter points with

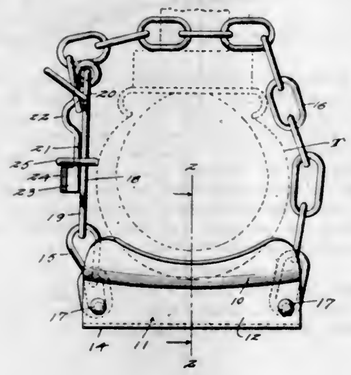
alternately arranged and longitudinally extending ribs and flutes, one or more of the flutes having expanded portions and contracted portions.

1,676,452. MEANS TO OPERATE ELECTROSTATIC TELEPHONES. SIEGMUND LOEWE, Berlin-Friedenau, Germany, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Apr. 29, 1927, Serial No. 187,678, and in Germany Feb. 20, 1924. 3 Claims. (Cl. 250—20.)



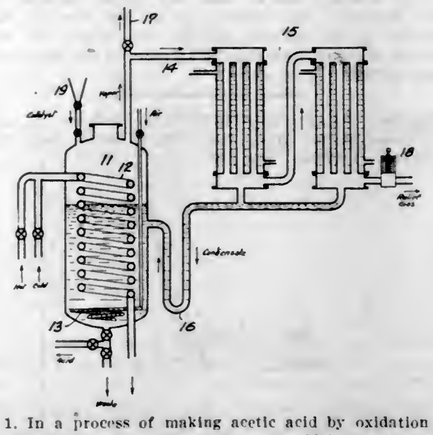
1. Radio signalling apparatus comprising a vacuum tube having plate and grid circuits regeneratively coupled together, means in series with the grid circuit for suppressing oscillations due to the regenerative coupling, an electrostatic telephone and a condenser in series, across a portion of the plate circuit of the tube, means for supplying a rectified high frequency current across said condenser, and means for coupling the output of another tube in said radio signalling apparatus across the grid and filament of said first mentioned vacuum tube.

1,676,453. TRACTION LUG FOR VEHICLES. ELMER E. MACGUIRE, Anaconda, Mont. Filed June 18, 1927. Serial No. 199,764. 3 Claims. (Cl. 24—237.)



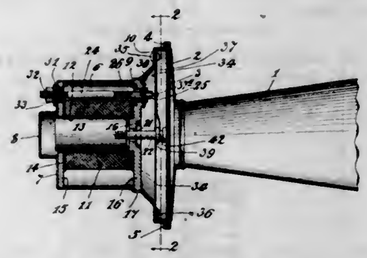
1. A chain connector comprising a body having an eye at one end for engagement with the end link of one of a pair of chain ends to be connected, an arm pivoted to the opposite end of the body and swingable about the pivot thereof to a position where it lies against the body, said arm being offset intermediate its ends whereby in the last named position it provides a cove for the reception of an end link of the second chain, means for securing said arm in said position comprising a ring surrounding and rotatable upon the body and a head on said arm, said ring in one position thereof being bodily movable longitudinally of the body over the head to overlie the arm and prevent separation thereof from the member.

1,676,454. PROCESS OF MAKING ACETIC ACID. HOWARD W. MATHESON, Montreal, Quebec, Canada, assignor to Canadian Electro Products Company, Limited, Montreal, Quebec, Canada. Filed Mar. 31, 1921, Serial No. 457,465. 15 Claims. (Cl. 260—116.)



1. In a process of making acetic acid by oxidation of acetaldehyde while retaining formed acid in the acetaldehyde and after an initial rise in pressure at the commencement of the reaction, the step of further increasing the pressure above atmospheric as the acid content of the mixture increases.

1,676,455. ELECTRIC HORN. DUNCAN A. MCCONNELL, Montclair, N. J., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed May 3, 1922. Serial No. 558,109. 8 Claims. (Cl. 177—7.)

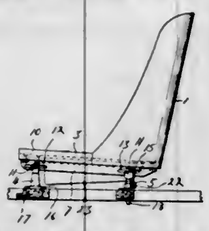


3. A signalling device comprising, in combination, a cup-shaped casing formed of thin magnetic material; a horn supported on the edge of said casing; a diaphragm interposed between the horn and casing; discs of comparatively thicker magnetic material than the casing held in spaced relation within said casing and forming partitions therein; a stationary contact; means insulatingly supporting said contact on said discs; a movable contact member supported by the casing so as to permit said member to engage with the stationary contact; a solenoid coil supported between said discs, and insulated therefrom, said coil containing a plunger-core; and a member on said plunger core adapted to strike the movable contact and diaphragm.

6. A signalling device, comprising in combination, a casing; a diaphragm carried by said casing; an electromagnet in said casing, having a movable armature provided with a head portion located between the magnet and the diaphragm; a circuit controlling device for said electromagnet, comprising a resilient member supporting a contact, said member being secured at one end, to the casing, the free end thereof engaging the head portion

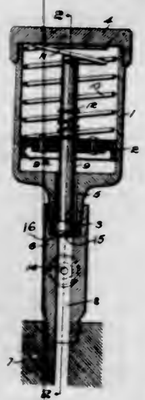
of the armature on the side thereof adjacent the diaphragm; a stationary contact adapted to be engaged by the contact on the resilient member; and an apertured recoil blade spring attached at its ends to the casing and located in a plane between the stationary contact and the resilient member, said blade spring engaging the head portion of the armature on the side opposite that engaged by the resilient member, the contact on said member extending through the aperture in the said recoil blade spring.

1,676,456. SEAT CONSTRUCTION. LAMONT A. MCDOWELL, Racine, Wis. Filed July 9, 1925. Serial No. 42,416. 1 Claim. (Cl. 155—14.)



The combination with a support having a vertical opening, a seat spaced above said support, of a longitudinal rail carried by said seat having a depending flange provided with spaced longitudinally extending slots, supporting brackets between said seat and support adjacent the front and rear edges of the seat, fastening elements carried by the upper ends of said brackets and engageable in said slots for permitting the seat to be adjusted longitudinally of the support, the lower end of one of said brackets being permanently secured to said support while the lower end of the other bracket is engaged in said opening for adjusting the seat to a plurality of vertical positions, the fastening element at the upper end of the bracket which is permanently secured to the support forming a fulcrum for said seat during vertical adjustment thereof.

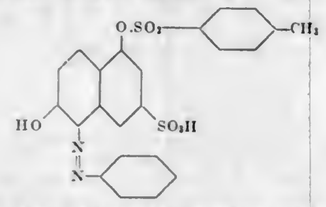
1,676,457. LUBRICATING APPARATUS. HOWARD J. MURPHY, Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 25, 1925. Serial No. 52,403. 8 Claims. (Cl. 184—45.)



1. A lubricant supply cup comprising a reservoir, a spring pressed closure valve normally permitting passage of lubricant from said reservoir, lubricant expelling means in said reservoir movable relative to said valve for slowly forcing the lubricant therefrom, resilient means interposed between the valve, the cup, and the lubricant expelling means, adapted to be compressed by the pressure of the lubricant entering said cup and acting upon said lubricant expelling means to permit filling said cup through said valve and to close said valve when said cup is filled to a predetermined level.

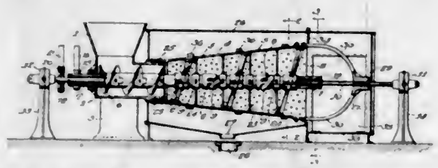
1,676,458. HYDROXY-NAPHTHALENE-ARYLSULPHOESTER AZO DYESTUFF AND PROCESS OF MAKING THE SAME. WILHELM NEELMEIER, Leverkusen-on-the-Rhine, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Original application filed July 21, 1926, Serial No. 124,089, and in Germany Aug. 2, 1924. Divided and this application filed July 20, 1927. Serial No. 207,311. 1 Claim. (Cl. 260—94.)

As a new product the mono-azo-dyestuffs having in the free state most probably the formula:



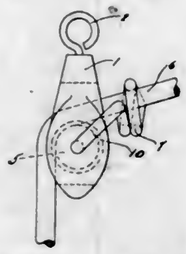
which is in a dry state an orange-red powder, soluble in water and concentrated sulfuric acid with an orange-red color, dyeing wool from an acid bath orange-red shades of good fastness to light and milling.

1,676,459. DEVICE FOR SEPARATING LIQUID FROM SOLID MATERIAL. STEN V. C. PLATE, Chicago, Ill. Filed July 12, 1926. Serial No. 121,821. 8 Claims. (Cl. 210—69.)



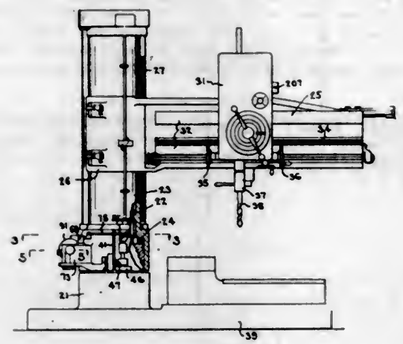
1. A device for removing liquid from solid material comprising a stationary chamber into which the material is received, a rotatable receptacle with which said chamber communicates, the wall of said receptacle being provided with a series of openings, a delivery mechanism for delivering the material from the chamber to said receptacle, a series of scrapers in said receptacle, braces in said receptacle intermediate said scrapers, and means for moving the scrapers and the receptacle relatively while the receptacle is rotating.

1,676,460. PULLEY STRUCTURE. JAMES S. REID, Cleveland, Ohio. Filed Sept. 7, 1926. Serial No. 134,069. 6 Claims. (Cl. 254—197.)



1. In combination, a frame, a rod mounted in said frame, and a pulley rotatably mounted upon said rod, said rod being provided with an integral portion formed as a guide for the rope which travels over said pulley.

1,676,461. DRILLING MACHINE. ALBERT E. ROBINSON and AUGUSTUS M. SOSA, Cincinnati, Ohio, assignors to The American Tool Works Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 20, 1926. Serial No. 130,554. 32 Claims. (Cl. 77—28.)



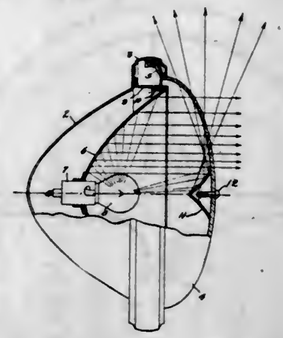
5. In a drilling machine, the combination of a base, a tool-arm adjustable to radial positions with relation thereto, a clamp for clamping said tool-arm in adjusted positions, a driving member, a brake normally in released relation, centrifugal means operated by said driving member for placing said brake in braking relation, means restraining said last-named means, and means operating in synchronism with said clamp for releasing said restraining means.

1,676,462. POWDER-DISPENSING DEVICE. RALPH R. ROOT, Lakewood, Ohio, assignor to The Root Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 25, 1925. Serial No. 11,615. 3 Claims. (Cl. 43—147.)



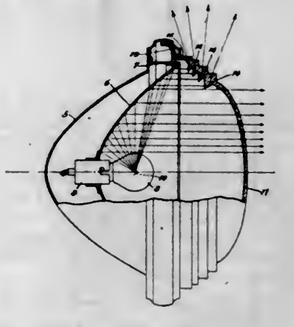
1. In a device of the character described the combination with a container having a chamber adapted to contain powdered material said chamber having a filling opening, a closure member for said filling opening said chamber being provided with a discharge opening, said closure member being provided with an extension adapted to cooperate with the said discharge opening to deflect the material coming therefrom said extension being movable to a position in which it is out of co-operation with the said discharge opening.

1,676,463. HEADLIGHT. WALTER D'ARCY RYAN, Schenectady, N. Y. Filed Sept. 2, 1924. Serial No. 735,407. 2 Claims. (Cl. 240—48.4.)



1. A headlight comprising a reflector, a lens for said reflector, a source of light in said reflector, and an auxiliary reflector carried by the central portion of said lens, for reflecting the light from said source through marginal portions of said lens, the top and bottom portions of said auxiliary reflector being cut away to permit the passage forwardly of direct rays of light from said source.

1,676,464. HEADLIGHT. WALTER D'ARCY RYAN, Schenectady, N. Y. Filed Sept. 2, 1924. Serial No. 735,409. 1 Claim. (Cl. 240—48.4.)

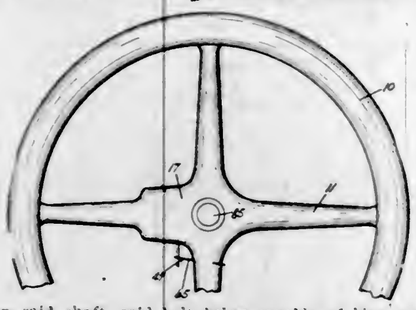


A headlight comprising a reflector, a source of light in said reflector, and a bowl-shaped lens for said reflector having a plurality of inwardly stepped annular prisms adjacent the margin thereof, said prisms each having one inwardly extending face substantially at right angles to the axis of said reflector and another inwardly extending face at an acute angle to said axis, the angles between said faces increasing from the inner to the outer prism and the greater portion of said lens being substantially non-refractive whereby the greater portion of the beam reflected from said reflector will be projected through said non-refractive portion while the rays reflected from the marginal surface of said reflector will be intercepted by said prisms and refracted laterally.

1,676,465. LOCKING HANDWHEEL. ALVA W. SCOTT and HARVEY D. GEYER, Dayton, Ohio, assignors to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Dec. 11, 1924. Serial No. 755,182. 9 Claims. (Cl. 70—129.)

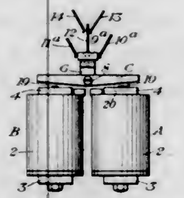
1. In a wheel and shaft locking means, a head attached to said shaft, a nut threaded upon said shaft above said head and preventing axial removal of said

head, a wheel having a central housing surrounding and preventing access to said nut, a rotary locking bolt having two positions for rendering said wheel fixed or loose



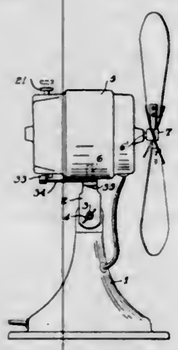
upon said shaft, said bolt being capable of bing swung into a third position to engage said nut whereby said nut may be turned upon the threads on said shaft by rotating the wheel.

1,676,466. ELECTRICAL RELAY. CLARENCE S. SNAVELY, Pittsburgh, and WESLEY B. WELLS, Wilkinsburg, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed May 12, 1924. Serial No. 712,556. 2 Claims. (Cl. 175—336.)



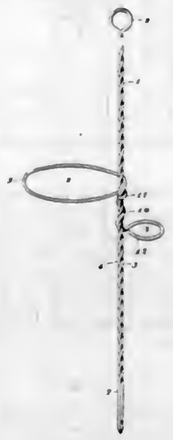
1. An electromagnetic device comprising a pivoted armature, two electromagnets one on each side of the pivotal axis of said armature whereby the armature is swung in one direction or the other according as one magnet or the other is energized, and an auxiliary magnetic path of low reluctance connecting the two poles of each magnet for delaying the decay of flux in the core of the magnet when the magnet becomes deenergized and for delaying the action of the magnet on the armature when the magnet becomes energized.

1,676,467. OSCILLATING FAN. HARVE R. STUART, Springfield, Ohio, assignor to The Robbins & Myers Company, Springfield, Ohio, a Corporation of Ohio. Filed Feb. 10, 1926. Serial No. 87,402. 3 Claims. (Cl. 230—156.)



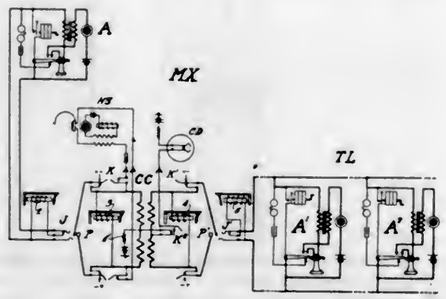
1. In an oscillating mechanism for a motor and fan mounted to oscillate, the combination of a motor shaft, a driven shaft having a crank pin, a pinion mounted upon said pin, a stationary internal gear and a rotatable internal gear concentric with said driven shaft and in mesh with said pinion, said gears and pinions constituting speed reducing mechanism, manual means for connecting and disconnecting said driven shaft with and from said motor shaft, a crank connected with said rotatable gear, and a link pivotally connecting said crank with a stationary part, said motor and fan being locked against movement by said speed reducing gearing excepting when said gearing is connected with said motor shaft.

1,676,468. PLANT SUPPORT. NIXON WATERMAN, Canton, Mass. Filed May 13, 1927. Serial No. 191,218. 3 Claims. (Cl. 47—47.)



1. In a plant-support, the combination of a standard provided with spiral guiding means, and a plant-holder comprising a plant inclosing loop, spiral means adapted to fit into and coincide with the said spiral guiding means of the standard, and auxiliary means whereby under the influence of gravity automatic adjustment of the plant-holder may be effected.

1,676,469. AUTOMATIC TELEPHONE SYSTEM. JOHN WICKS, Oak Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed June 10, 1925. Serial No. 36,069. 31 Claims. (Cl. 179—27.)



30. In a telephone system, a connector, a line accessible to the connector, means controlled by the connector for projecting ringing current over the line over either of two paths, one of said paths including the talking conductors of the connector and the other path excluding said talking conductors.

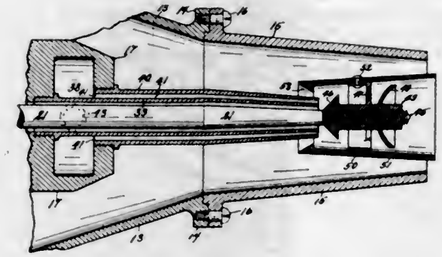
1,676,470. PRODUCTION OF ESTERS OF AROMATIC ACIDS. ROGER ADAMS, Urbana, and ERNEST H. VOLWILER, Chicago, Ill., assignors to The Abbott Laboratories, Chicago, Ill., a Corporation of Illinois. Filed Mar. 9, 1922, Serial No. 542,462, and in Great Britain Sept. 27, 1921. 10 Claims. (Cl. 260—105.)

1. The process of producing a compound of the general series:

$$Ar-C(=O)-O.CH_2CH_2CH_2-N(R')(R'')$$

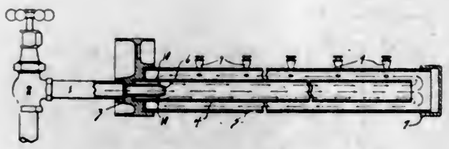
in which R' and R'' represent alkyl radicals, one of which is larger than an ethyl group, and in which Ar represents an aryl group, which consists in condensing the gamma-halogen-n-propyl alcohol ester of a benzoic acid, with a di-alkyl amine in which one of the alkyl groups is greater than ethyl.

1,676,471. OIL BURNER FOR FURNACES. CHURCH ANDERSON, Los Angeles, Calif. Filed Aug. 5, 1927. Serial No. 210,770. 4 Claims. (Cl. 158—77.)



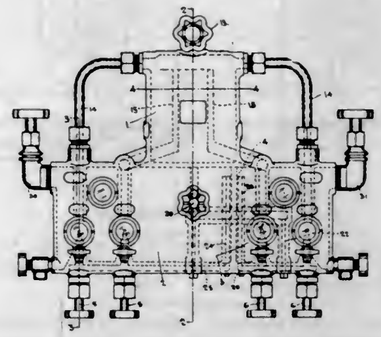
1. An oil burner for a furnace including nozzles directed toward a line extending axially and longitudinally through them, means for driving air and liquid fuel through said nozzles, and means adjacent the discharge end of said fuel nozzle for causing a preliminary mixture of the fuel with a portion of the air and then a final mixing of the unmixed air with the preliminary mixture.

1,676,472. CIRCULATING GAS BURNER. JAY M. AXTELL and FREDERICK G. VON HOFEN, Fort Worth, Tex., assignors to A.-V. Burner Company, Fort Worth, Tex., a Corporation of Texas. Filed Nov. 21, 1925. Serial No. 70,475. 3 Claims. (Cl. 158—104.)



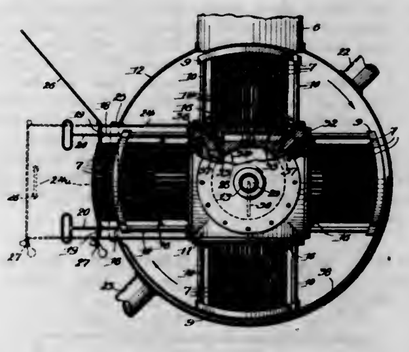
1. A circulating burner comprising a holder, an outer circulating member rigid with said holder and provided with burner nozzles, a circulating member within said outer member rigid with said holder and open at the opposite end for permitting gas to enter said outer member and having perforations near said holder for permitting gas to enter therein from said outer member, and a feed nipple rigid with said holder for supplying gas to said inner member and projecting beyond said perforations for aiding in directing gas from the outer to the inner member.

1,676,473. LUBRICATOR. FREDERICK C. BLANCHARD, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 31, 1922. Serial No. 585,397. 6 Claims. (Cl. 184—50.)



1. In a lubricator, the combination with the condensing chamber, of a plurality of lubricant compartments adapted to communicate therewith, separate filling openings for each compartment, lubricant outlet pipes adapted to communicate with said compartments, and steam equalizing passageways communicating with said outlet pipes.

1,676,474. MACHINE AND METHOD FOR DRYING MACARONI. ARTHUR E. BROUGHTON, Minneapolis, Minn. Filed Mar. 29, 1926. Serial No. 98,240. 11 Claims. (Cl. 34—26.)

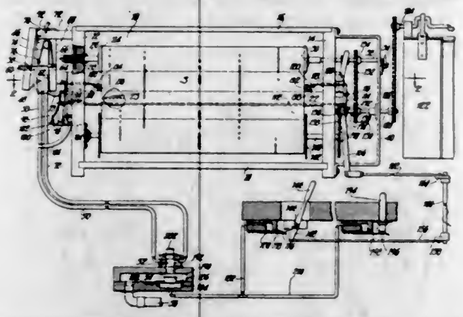


1. The method of drying macaroni or other moist tubular particles of a pasty consistency without protective covering, which includes the step of applying heat to the individual particles within the longitudinal opening therein, while permitting the free escape of moisture from the exterior thereof and progressively drying the particles from the interior thereof outward, whereby the interior portions of each particle are dried before the outer surfaces thereof are hardened.

1,676,475. TRACKING DEVICE. REINHOLD BUKOW, Long Island City, N. Y., assignor to Hardman, Peck & Co., New York, N. Y., a Corporation of New York. Filed Apr. 9, 1926. Serial No. 100,874. 5 Claims. (Cl. 84—138.)

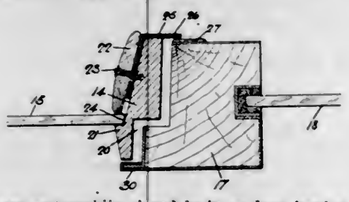
1. The combination with a tracking control mechanism, a take-up roll and rewinding mechanism, of a spool arranged to be coupled with the latter, means for render-

ing the tracking control mechanism non-operative during the operation of said rewinding mechanism, and means



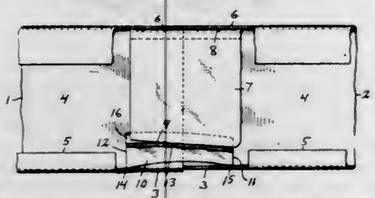
for automatically shifting said spool relatively to said take-up roll to centralize said spool upon the operation of said rewinding mechanism.

1,676,476. AUTOMOBILE BODY CONSTRUCTION. ALEXANDER CARLSON, Dayton, Ohio, assignor to Dayton-Wright Company, Dayton, Ohio, a Corporation of Delaware. Filed Mar. 24, 1923. Serial No. 627,480. 2 Claims. (Cl. 296—28.)



1. In an automobile closed body, a door having a front door post and a glass panel attached thereto, said door post having a recess on its forward edge forming a vertical shoulder thereon of considerable width, a metallic front body pillar having a transverse width approximately equal to that of said door post but having a relatively small longitudinal width, said pillar having a vertical shoulder thereon opposed to and internesting with the shoulder in said door post, said door post having a flange on its forward outside edge which substantially conceals the relatively narrow portion of said pillar which would otherwise be exposed when viewed from the outer side.

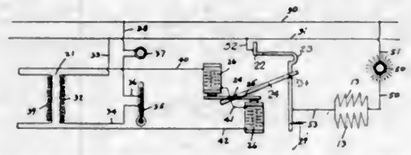
1,676,477. ROAD-FORM CONNECTION. EDWARD G. CARR, Chicago, Ill. Filed Aug. 31, 1922. Serial No. 585,399. 9 Claims. (Cl. 25—118.)



1. The combination with abutting road-forms, including bases and treads, of a straight aligning member adapted to engage with the treads, and means to force the treads and the aligning member into contact by pressure exerted on each base independently of the planes in which the two bases may lie.

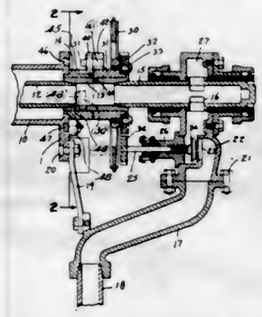
1,676,478. THERMOSTATIC CONTROL. REUEL C. CHESHIER, Frankfort, Ind., assignor to Schlosser Brothers, Incorporated, Frankfort, Ind. Filed July 13, 1925. Serial No. 43,283. 2 Claims. (Cl. 236—78.)

1. In combination, a source of electrical energy, three electrical circuits, only two of which are directly connected to said source of electrical energy, one of said source connected circuits and the remaining circuit being magnetically coupled together, and means in each of



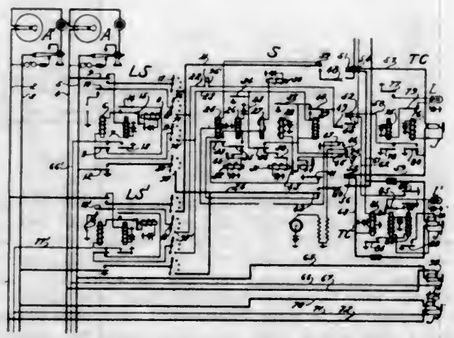
said remaining circuit and the other source connected circuit and mechanically connected together, whereby an operative control in the first source connected circuit is imparted upon the second source connected circuit.

1,676,479. SOOT BLOWER. WILLIAM A. COOK and EVERETT P. STROUP, Marion, Ind., assignors to Marion Machine, Foundry & Supply Company, Marion, Ind., a Corporation. Filed Apr. 7, 1924. Serial No. 704,773. 10 Claims. (Cl. 122—392.)



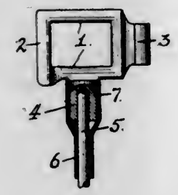
1. A soot blower including a rotary blow tube construction, means for supplying steam thereto, a steam valve for controlling said steam supply, a wheel loosely and rotatably mounted on the blow tube construction and adapted to operate the valve and open and close the same and rotate the blow tube construction, and means for disengaging said wheel from the blow tube construction during a part of the cycle of the operation of the device.

1,676,480. TELEPHONE SYSTEM. THOMAS F. CROCKER, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Mar. 23, 1925. Serial No. 17,539. 24 Claims. (Cl. 179—27.)



17. In a telephone system, a cord circuit comprising talking strands and having a plug at each end, said strands being normally open, and means controlled through either plug for closing said strands.

1,676,481. CONVEYER. JOHN D. CRUMMEY, WILLIAM J. AUSTIN, and FRANK H. LEWIS, San Jose, Calif., assignors to Bean Spray Pump Co., San Jose, Calif., a Corporation of California. Filed Apr. 30, 1928. Serial No. 274,126. 3 Claims. (Cl. 198—195.)



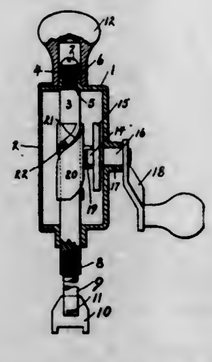
1. A conveyer comprising spaced parallel side chains composed of articulated links; spaced, parallel cross members connecting opposing corresponding links; and a rubber cushion sheath completely enveloping each cross member, the ends of said sheath being stretched to cover and bind upon the link and cross member connection.

1,676,482. METHOD AND MEANS FOR THREADING NUT BLANKS. OTTO HARRY DE LAPOTTERIE, Kent, Ohio, assignor to Roy H. Smith, Kent, Ohio. Filed Dec. 5, 1921. Serial No. 519,902. 7 Claims. (Cl. 10—152.)



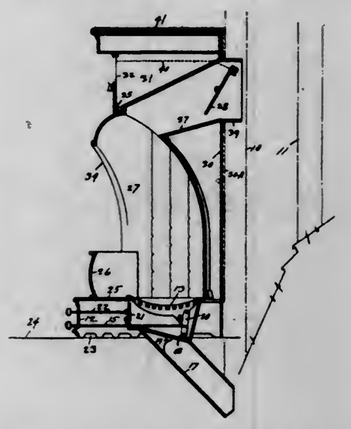
4. A tool for forming threads in nut blanks having a tapered thread swaging head with alternate circular and non-circular portions spaced circumferentially, and having threads formed in both portions.

1,676,483. VALVE GRINDER. WILLIAM E. DUTHIE, Indianapolis, Ind. Filed Aug. 25, 1926. Serial No. 131,321. 1 Claim. (Cl. 74—14.)



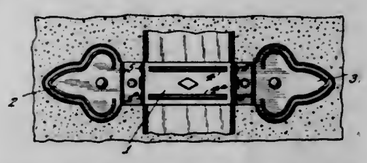
In a valve grinder, the combination with a casing, of a shaft mounted therein to rotate on a vertical axis and held against vertical movement therein, a spiral cam sleeve surrounding said shaft, intermediate of its ends, rotatably fixed and reciprocable with respect to said shaft, fixed means on the shaft engaging the cam face of said sleeve, a transversely extending grooved bearing block secured to said sleeve intermediate of its ends, a crank pin engaging in the groove of said bearing block and a crank handle for rotating said crank pin to impart a vertically reciprocating movement of the sleeve to thereby impart to the shaft an oscillating rotary movement, the shaft of said crank handle extending at right angles to the first mentioned shaft and mounted in said casing.

1,676,484. FIREPLACE. JOHN B. EHRLICH, Portland, Oreg. Filed July 15, 1926. Serial No. 122,617. 3 Claims. (Cl. 126—242.)



1. A fireplace having a hinged grate, a grate-holding base including a fire wall, an ash duct under said grate having a normally closed door thereon, a link connecting said grate and door, and means for actuating said link in a manner to open said door when said grate is opened.

1,676,485. LEADER-PIPE STRAP. DANIEL J. FINCANE, Brooklyn, N. Y. Filed June 11, 1926. Serial No. 115,240. 2 Claims. (Cl. 248—30.)

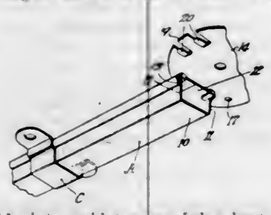


1. A leader-pipe supporting strap comprising a single strip of sheet metal consisting of end portions having embossed reinforcements and a front portion between said end portions and having embossed reinforcement, said front embossed portion being spaced from the end embossed portions to form flat bending zones between said front and end portions.

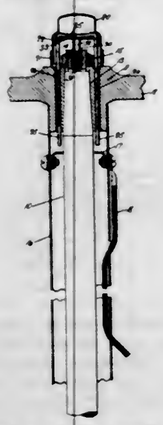
1,676,486. CONDUIT FOR ELECTRIC CONDUCTORS. OTTO A. FREDERICKSON, Hartford, Conn., assignor to American Wiremold Company, Hartford, Conn., a Corporation of Pennsylvania. Filed May 4, 1923. Serial No. 636,529. 6 Claims. (Cl. 247—25.)

1. In a conduit for electrical conductors and the like, the combination of a one piece closed conduit of relatively stiff material, having a flat base and having sub-

stantially straight ends, with a supporting plate of relatively stiff material comprising a flat plate having a plurality of tongues struck from the same within the boundary of said plate, said tongues being bent to extend outward substantially parallel to said plate and spaced from said plate sufficient to receive the base of said conduit.

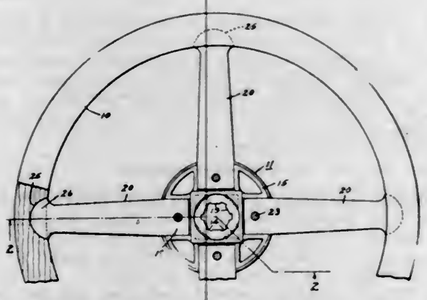


1,676,487. HORN-BUTTON MOUNTING FOR STEERING WHEELS. HARVEY D. GEYER, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Dec. 19, 1924. Serial No. 757,067. 3 Claims. (Cl. 200—59.)



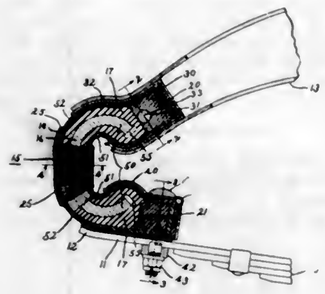
1. In combination, a steering shaft, a handwheel fixed upon said shaft, a nut threaded upon the shaft to hold said handwheel against axial movement thereupon, a horn button guide casing mounted upon the top of the handwheel and completely enclosing said nut and having a portion extending under said nut whereby said casing is retained in place, and a horn button reciprocative within said guide casing.

1,676,488. STEERING WHEEL. HARVEY D. GEYER, Dayton, Ohio, assignor to Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Feb. 25, 1926. Serial No. 90,672. 7 Claims. (Cl. 74—33.)



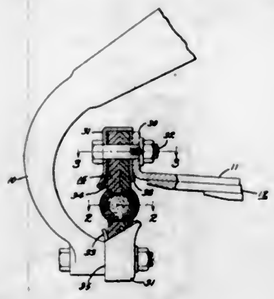
2. A handwheel spider comprising: a cast metal hub having a sleeve portion adapted to fit over a shaft, said sleeve portion having a square outer periphery and integral lugs projecting from the corners thereof, four wooden spokes having inner ends projecting individually into the openings between said lugs, upper and lower clamping plates for clamping said inner ends rigidly in place between said lugs, said clamping plates having square apertures fitting snugly about the square outer periphery of said sleeve portion, and a lower pressed metal cover concealing said lower clamping member and retained in place thereby.

1,676,489. SPRING SHACKLE. HARVEY D. GEYER, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Oct. 16, 1926. Serial No. 142,118. 11 Claims. (Cl. 267—54.)



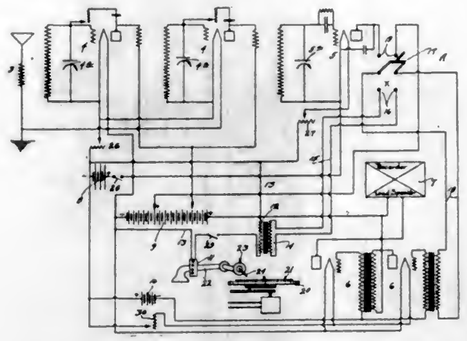
1. In combination with the spring and frame member of a vehicle, a shackle comprising: a molded rubber unit having an interior metal insert, a soft rubber body and rubberized fabric extending around the periphery of said rubber body, said molded unit having one end thereof rigidly fixed to the vehicle spring and the other end thereof rigidly fixed to the frame member.

1,676,490. SPRING SHACKLE. HARVEY D. GEYER, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Jan. 21, 1927. Serial No. 162,605. 6 Claims. (Cl. 267—54.)



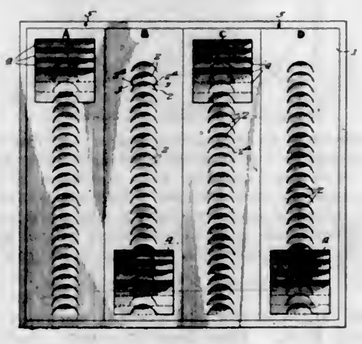
1. A suspension shackle for two relatively movable parts comprising: a flexible web of molded rubberized fabric having its end portions rigidly secured to said movable parts respectively, the central portion of said flexible web being substantially non-extensible, while the lateral edges of said web are slightly yieldable under tension load, whereby edge loading upon said flexible web is distributed over a substantial width thereof.

1,676,491. COMBINED RADIO AND PHONOGRAPHIC RECORDING AND REPRODUCING SYSTEM. PAUL GOLDSBOROUGH, Minneapolis, Minn., assignor of one-fourth to Albert P. Upton, Minneapolis, Minn. Filed Sept. 16, 1926. Serial No. 135,860. 3 Claims. (Cl. 179—100.1.)



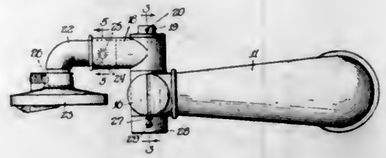
2. An apparatus of the class described, comprising a radio receiving set, an electrical reproducer for phonograph records, an audio-frequency amplifier, electric circuits connecting said amplifier with the aforesaid devices, a loud-speaker electrically connected to the output of said amplifier, phonograph record recording means, and acoustical means connecting said loud-speaker and said recording means whereby sound produced by the loud-speaker may be simultaneously heard and recorded.

1,676,492. CARD RACK. GEORGE L. GOODWIN, Chicago, Ill., assignor to The International Committee of Young Men's Christian Associations, New York, N. Y., a Corporation of New York. Filed Sept. 18, 1924. Serial No. 738,333. 1 Claim. (Cl. 40—124.)



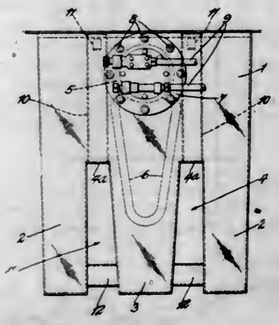
A card rack comprising a sheet of flexible material having a vertical series of slits cut therein to form a vertical column of card holding straps, each strap comprising all of the sheet material lying between adjacent slits and margins of uncut material on each side thereof resiliently resistant to displacement toward said column of straps, each strap normally lying in the plane of said sheet and the portion of each strap lying between its ends being displaceable from said plane outwardly to admit a card behind it and by said outward displacement imposing tension on the margins in the plane of the sheet, whereby the resistance of said margins tends to restore said tongues to their normal plane and grip the inserted card.

1,676,493. SOUND-CONVEYING APPARATUS. OTTO R. GRASS, Chicago, Ill., assignor to The Oro-Tone Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 22, 1924. Serial No. 738,994. 7 Claims. (Cl. 274—24.)



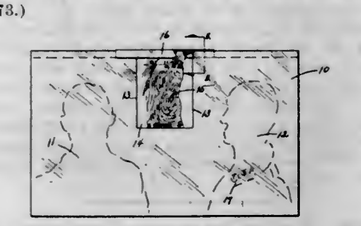
1. A sound box coupler and sound recording means for sound reproducing instruments, comprising means adapted to connect a tone arm and sound box, a removable closure covering an opening in said coupler, and a horn having a portion insertable in said opening to thereby communicate with said tone arm.

1,676,494. REFRIGERANT CONTAINER. GUSTAV J. GRUENDLER, Clayton, Mo. Filed Aug. 2, 1926. Serial No. 126,655. 6 Claims. (Cl. 62—95.)



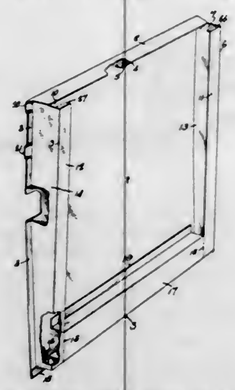
1. A refrigerant container for refrigerators comprising a plurality of vertically disposed legs adapted to contain brine, means in one of said legs for cooling the brine therein, and means whereby the brine may flow from substantially the lower end of said leg in which the brine is cooled into the other of said legs.

1,676,495. METHOD OF IDENTIFYING INDIVIDUALS. WILLIAM MCKINLEY HAMMOND, Des Moines, Iowa. Filed Jan. 21, 1926. Serial No. 82,708. 3 Claims. (Cl. 95—73.)



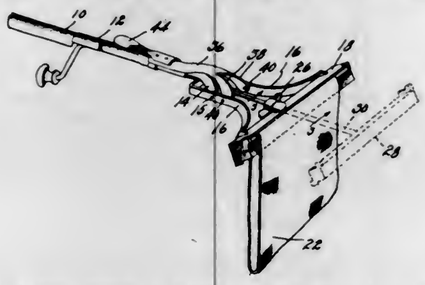
1. A method of producing a device for the identification of an individual which consists in preparing a photographic likeness of the individual in negative on a film, cutting a section out of said film, preparing a finger print of the individual on a sheet of paper, fitting said sheet into the opening in said film and making a photographic print through said negative and paper simultaneously whereby a reproduction of the likeness and finger print are combined in the same print.

1,676,496. DOOR. EDWARD J. HARDTKE, Milwaukee, Wis., assignor to Seaman Body Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 30, 1924. Serial No. 746,727. 8 Claims. (Cl. 296—44.)



1. A sheet metal door constructed of a single piece of metal having the main portion thereof constituting the front panel of the door, the upper edge portion of the piece of metal extending inwardly from the main portion to provide a reinforcing top plate, the side edge portions of the piece of metal extending inwardly from the main portion and having their extremities extending toward each other and terminating in spaced relation to the main portion to provide reinforcements for the sides of the door.

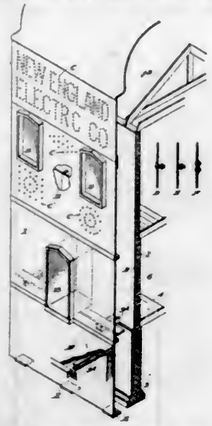
1,676,497. MOP. THOMAS HILL, Detroit, Mich., assignor to Dan H. Gilchrist, Detroit, Mich. Filed July 29, 1927. Serial No. 209,201. 5 Claims. (Cl. 15—120.)



1. A mop having a handle, a head pivoted to the handle and adapted to be locked within the axial line of the handle or at an angle with respect thereto, a cloth carried by the head, a rotatable cloth engaging part mounted upon the head to twist the cloth with respect to the head, said rotatable part having a handle portion extending rearwardly along the mop handle, said mop handle having a groove to receive the handle portion of the rotatable part and having means adapted to grip the same to secure it therein at any position wherein it may be disposed.

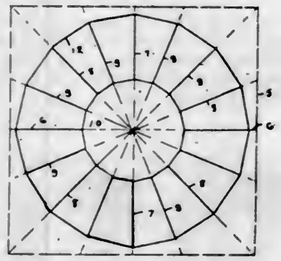
1,676,498. SUB OR REMOVABLE BUILDING FRONT. HARRY W. LAWRENCE, Denver, Colo. Filed Apr. 25, 1927. Serial No. 186,480. 6 Claims. (Cl. 40—126.)

1. A sub and removable building front for the front permanent walls of old or new buildings; comprising a thin sheet metal front wall member constructed of attachable and detachable sections of sheet metal; and secured to said permanent wall by structural members at a sufficient distance from it for workmen to work between said walls; and a platform between said walls for workmen to stand on; said subwall being provided with apertures arranged to form the outlines of advertising letters and ornamental designs; transparent lenses of any predetermined color removably secured in said apertures; a



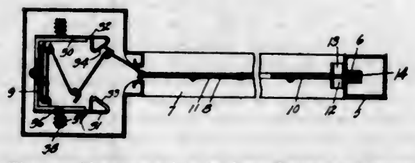
light reflecting surface on the wall of said permanent wall behind said lenses; and electric lights arranged to illuminate the light reflecting surfaces on said permanent wall; whereby said lenses are illuminated.

1,676,499. METHOD OF PRODUCING FOLDED TOILET-SEAT COVERS. WILLIAM P. MCCORKINDALE, Holyoke, Mass. Filed Aug. 26, 1926. Serial No. 131,806. 4 Claims. (Cl. 270—61.)



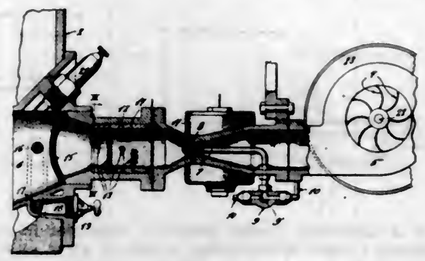
1. The process of making paper toilet seat covers consisting in folding a rectangular sheet upon itself along a series of fold lines radiating from a common center to provide a final triangular shaped folded article, and then sawing a series of similarly folded sheets along the apex portion thereof and then along the outer portion thereof, to provide an approximately annular toilet bowl seat cover.

1,676,500. SLIDING DOOR. CLAUDE C. MCGINNIS, Sedro Woolley, Wash. Filed June 27, 1927. Serial No. 201,616. 4 Claims. (Cl. 189—51.)



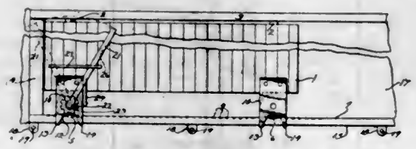
1. The combination with a door frame and housing and an oscillatable receiver in the housing, of a sliding door comprising jointed panels one of which is hinged to the receiver in off-center position, and means for guiding the door, in closing and opening movements.

1,676,501. BURNER. GEORGE F. MOORE, St. Louis, Mo., assignor to Recip-Roto Engine Company, St. Louis, Mo., a Corporation of Delaware. Filed Nov. 26, 1919. Serial No. 340,855. 4 Claims. (Cl. 158—76.)



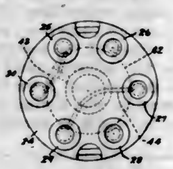
1. A burner comprising a blower, an air passage leading from said blower, a fuel outlet nozzle in said passage, a restriction in said passage spaced from and surrounding said nozzle near the outlet end of said nozzle, a vaporizing chamber beyond said nozzle and said restriction, heating means in said vaporizing chamber, an expanding discharge nozzle leading from the vaporizing chamber, a grid formed across said discharge nozzle between the inlet and outlet ends of said discharge nozzle and an igniter beyond the grid.

1,676,502. DEVICE FOR MOVING FREIGHT-CAR DOORS. GAITHER A. PLUNKETT, Bay Point, Calif. Filed Feb. 10, 1927. Serial No. 167,340. 6 Claims. (Cl. 268—44.)



1. In a device of the type described comprising a door, a supporting rail for said door having a plurality of openings therein, the walls of said openings being inclined, and a door supporting roller movable on said rail and having projections removably receivable in rail and having projections removably receivable in said openings.

1,676,503. DUAL IGNITION FOR 2-CYLINDER ENGINES. EDWARD V. RIPPINGILLE, Detroit, Mich., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed July 14, 1927. Serial No. 205,782. 8 Claims. (Cl. 123—148.)



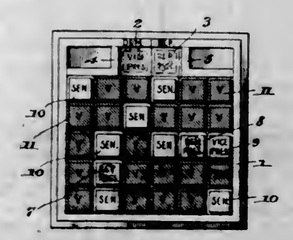
1. An ignition device comprising in combination, a distributor head having a plurality of terminal posts arranged in a circular row; and a rotatable member having separate conductors each providing a bridging connection between certain pairs of terminal posts in recurrent sequence.

1,676,504. FIT-EASY FACING FOR HATS. INEZ E. RISLEY, Los Angeles, Calif. Filed Feb. 23, 1926. Serial No. 90,018. 1 Claim. (Cl. 2—175.)



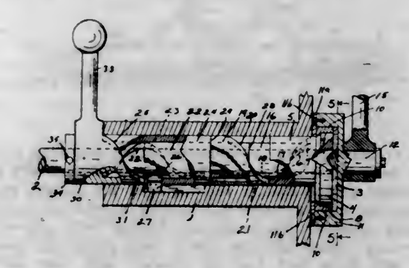
As an article of manufacture, a made-up brim facing unit for hats comprising: a main textile member in the form of a flat web made endless and adapted to contact with the surface of the brim of the hat on which said facing unit is to be used; a circumferentially extending reinforcement and a web of diaphanous material provided with peripheral reinforcement, detachably secured to said textile member reinforcement.

1,676,505. GAME OR PUZZLE. THOMAS J. SCANLAN, Oakland, Calif. Filed July 22, 1927. Serial No. 207,720. 2 Claims. (Cl. 273—132.)



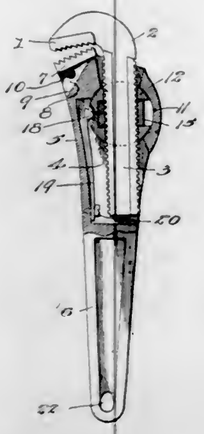
2. A group of blocks of the same size and shape adapted for playing a "presidential" game or puzzle, comprising blocks representing opposing candidates for the Presidency, a block representing a Vice-President, which is adapted to be arranged alongside either candidate block, blocks representing Senators, and blocks representing voters, and a tray for accommodating all of said blocks in edge-to-edge arrangement for relative shifting the area of which is greater by the area of two of said blocks than the aggregate of the areas of all of the blocks.

1,676,506. MECHANICAL MOVEMENT. RUDOLPH E. SCHLEY, Beaver Dam, Wis. Filed Apr. 30, 1926. Serial No. 105,661. 7 Claims. (Cl. 74—38.)



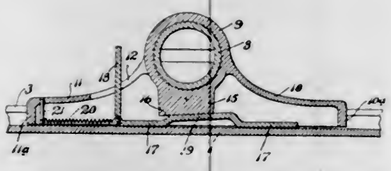
1. A shaft, a sleeve carried thereby, an eccentric upon the sleeve, a guide block upon the end of the shaft, a sliding member provided with slots intersecting at 90°, one of which is adapted for engagement with said guide block, a bearing member journaled upon the eccentric and adapted to be engaged within the slot at right angles to the slot engaged by said guide block, and a crank pin carried by the sliding member.

1,676,507. PIPE WRENCH. NINKO SPANOVIC, Duquesne, Pa. Filed Jan. 27, 1927. Serial No. 164,081. 2 Claims. (Cl. 81—105.)



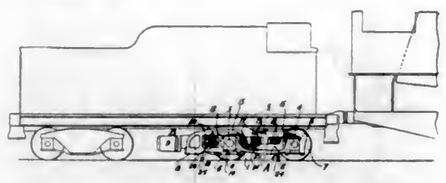
1. In a wrench, the combination of a hollow body having a head and circular openings in its walls, a circular head in said openings having a transverse slot opening at one side of the head, a circular nut in the circular head, a fixed jaw on the body, a movable jaw having a shank threaded into the nut and passing through said circular head, a pair of concave lugs on the exterior of and at opposite sides of the circular head for guiding the finger and thumb to the nut, said circular head having a socket, a spring in the hollow body, and a lug on said spring engaging the socket for the purpose described.

1,676,508. PEDESTAL MOUNTING. ANTHONY VANDERVELD, Grand Rapids, Mich., assignor of one-half to Harry B. Parrish, Grand Rapids, Mich. Filed June 16, 1924. Serial No. 720,193. Renewed Dec. 16, 1927. 7 Claims. (Cl. 188—43.)



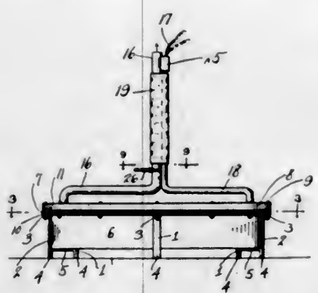
1. In combination, an elongated track including a vertical web, upper and lower flanges and downwardly and upwardly turned lips at the edges of the flanges paralleling the web, a pedestal including a vertical member located adjacent the track and formed with oppositely extending horizontal arms and a boss projecting toward the web from said vertical member, said boss having its free end face located at an angle to the length of the web, means on the arms loosely engaging in the grooves between said lips and web of the track, and a manually operable member located between the boss and web and having a section to engage the boss with the side thereof engaging the boss in a plane substantially paralleling the said face of the boss, said member being spring operated to normally draw said section of the member into engagement with the boss.

1,676,509. LOCOMOTIVE BOOSTER APPARATUS. HARRY S. VINCENT, Ridgewood, N. J., assignor to Franklin Railway Supply Company, a Corporation of Delaware. Filed May 25, 1923. Serial No. 641,288. 3 Claims. (Cl. 105—82.)



1. A locomotive booster apparatus comprising in combination a truck frame having a pair of wheel axles, a truck center plate located nearer to one axle than to the other, weight distributing structure comprising pairs of levers pivoted together and carried on the axles, means for transmitting the load from the frame to the axles through said weight distributing structure, and an auxiliary motor adapted to drive the axle which is nearer the center plate and supported in part at least on the frame, the torque of the motor when driving acting through the frame on said distributing structure to increase the load on the driven axle whereby to increase the adhesion between its wheels and the rails.

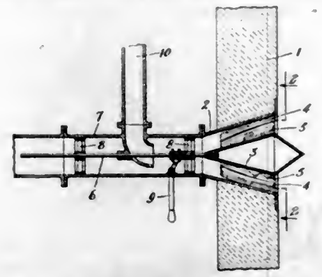
1,676,510. ELECTRICAL WATER HEATER. HARRY C. WELCOMER, Steelton, Pa. Filed Aug. 25, 1927. Serial No. 215,357. 5 Claims. (Cl. 219—41.)



1. An electrical heater comprising a series of spaced frame members of general U-shape, each of said members having upright spaced portions and a cross bar disposed above the lower ends of said upright portions and also having outwardly extending apertured terminals at the upper ends of said upright portions, an annular receptacle arranged in said frame members and on the cross bars thereof and having flanges superposed on said apertured terminals, an annulus superposed on the flanges of the receptacle, means connecting the said terminal portions, flanges and annulus together, means for excluding water from the interior of the receptacle, a dielectric annulus arranged in the annular receptacle and superposed on the bottom thereof, and a heating unit disposed on said dielectric annulus and having terminals carried through an aperture in the first named annulus.

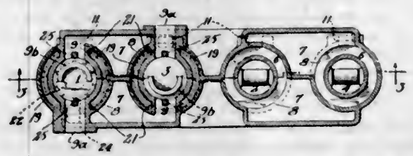
1,676,511. PULVERIZED-FUEL BURNER. WILFRED R. WOOD, London, England, assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 1, 1926. Serial No. 85,098. 2 Claims. (Cl. 110—104.)

1. A pulverized fuel burner comprising in combination, a flaring shell, an inner cone mounted for rotation and arranged with sides paralleling the shell sides and axially movable to vary the discharge area between shell and cone, spiral vanes extending inwardly from the shell



a portion of the distance to the cone, and similar vanes extending outwardly from the cone to cooperate with said first vanes in directing the fuel.

1,676,512. TWO-CYCLE GAS ENGINE. HOWARD E. ALLEN, Linn, Ohio. Filed June 17, 1924. Serial No. 720,491. 2 Claims. (Cl. 123—196.)



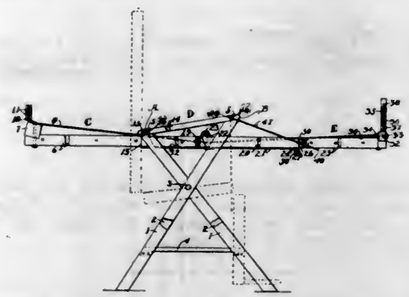
1. In an engine of the class described having hollow pistons the combination of a lubricant collecting member in the hollow portion of the pistons, apertures extending from the collecting members through the piston walls, and webs in the fuel ports of the cylinder, the aforesaid apertures being so spaced that certain apertures register with the fuel port webs whereby to prevent flow of lubricant into the ports.

1,676,513. LOOM REED. ISAAC ANDREWS, Spartanburg, S. C. Filed Apr. 7, 1927. Serial No. 181,833. 4 Claims. (Cl. 139—192.)



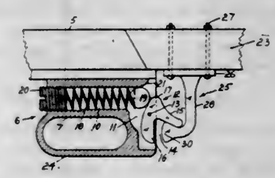
1. A loom-reed including spaced dents, supports connecting the dents adjacent to the ends of the dents, the ends of the dents extending beyond the supports said dents adapted to move within the supports and flexible means cooperating with the extended ends of the dents for moving the dents within the supports.

1,676,514. CONVERTIBLE FURNITURE. LYMAN P. ARMSTRONG, San Jose, Calif. Filed Oct. 25, 1926. Serial No. 143,996. 1 Claim. (Cl. 155—45.)



In a chair of the character described, the combination of a pair of upright standards, an arm rigidly mounted on each standard, a frame pivotally mounted off-center on said arms and at one end thereof, side bars pivotally mounted on said frame to form a seat portion and releasable fastening means therefor, side bars pivotally mounted on said last mentioned side bars and releasable fastening means therefor, means for supporting a bed bottom on said frame and side bars, and supporting connecting elements inserted between the second mentioned side bars adjacent their pivotal connections to the first bars and the ends of the arms remote from the pivotal mounting of the frame.

1,676,515. WEDGE CLOSURE FASTENER. TRACY J. ANSTEY, Oakland, Calif. Filed Apr. 17, 1926. Serial No. 102,620. 5 Claims. (Cl. 292—216.)

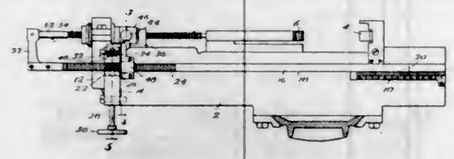


1. A closure fastener of the character described comprising a casing adapted to be secured to a swinging support; a lock plate pivotally secured in the casing at one end thereof and provided with a pair of adjacent tongues forming a notched portion and with a cam opposite to one of the tongues; a keeper adapted to be secured to a stationary support and provided with a head adapted to be received within the notched portion for engagement with the tongues; and means within the casing comprising a freely movable ball adapted to engage the cam and a wall of the casing for holding one of the tongues in engagement with the keeper, when the swinging support is nearing its closed position, so as to force the swinging support to the closed position and hold it wedged in said position, and, conversely, when the swinging support has been swung to a position in which the first-named tongue is released from its engagement with the keeper, to move the other tongue to a position for operative engagement by the keeper.

1,676,516. ATTACHMENT FOR TYPOGRAPHICAL MACHINES. WILLIAM S. AUSTIN, Kansas City, Mo., assignor of one-half to Nellie F. Austin, Kansas City, Mo. Filed Mar. 22, 1927. Serial No. 177,337. 4 Claims. (Cl. 199—50.)

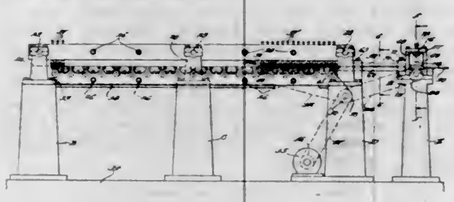
1. In combination with a vise of the character described provided with a scale and an abutment for limit-

ing the movement of the movable vise jaw from the fixed vise jaw, an index bar movably mounted upon said vise for coacting with the scale in adjusting said abut-



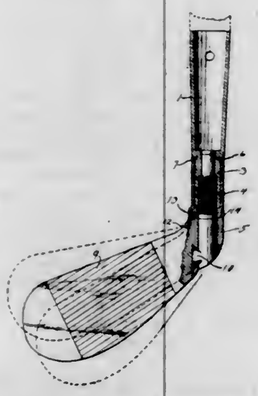
ment into proper relation with the fixed vise jaw, means for securing said abutment at any point of its adjustment, and rotary means engaging the index bar for moving the latter and the abutment.

1,676,517. EXPANDED-METAL MACHINE. RICHARD G. BIRKHOLZ, Milwaukee, Wis., assignor to Penn Metal Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Aug. 3, 1926. Serial No. 126,891. 15 Claims. (Cl. 164—6.6.)



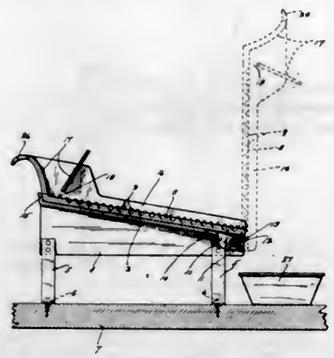
1. In an expanding machine, the combination of a plurality of laterally spaced sets of co-operating pairs of expanding rollers, the rollers of each set being spaced longitudinally and the several sets diverging in the same plane, each of said pairs of rollers comprising mating peripheral grooves and ribs, and means for guiding a slitted and ribbed sheet to said rollers.

1,676,518. ADJUSTABLE HEAD FOR GOLF CLUBS. SHERMAN L. BOLES, San Francisco, Calif. Filed July 7, 1926. Serial No. 120,899. 3 Claims. (Cl. 273—79.)



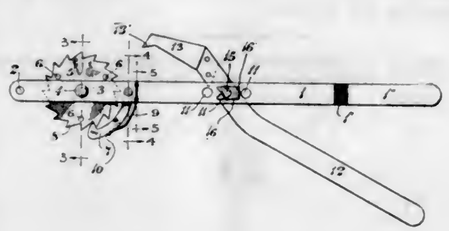
2. A golf club comprising a handle, a blade having a wedge shaped recess therein, a left handed screw removably secured to said handle, a wedge shaped projection carried by said screw and being removably receivable in said recess.

1,676,519. DOCKAGE TESTER. CLARENCE W. CARTER, Minneapolis, Minn., assignor to Carter-Mayhew Manufacturing Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Jan. 25, 1926. Serial No. 83,548. 2 Claims. (Cl. 209—93.)



1. In a separator of the kind described, a separating plate provided with pockets adapted to receive and hold certain materials and to reject other materials, means for vibrating said separating plate to shake off the rejected materials, said plate being detachably pivoted so that it may be moved to a position to discharge from said pockets the material lodged therein and may be removed for the substitution of a similar separating plate having pockets of a different character.

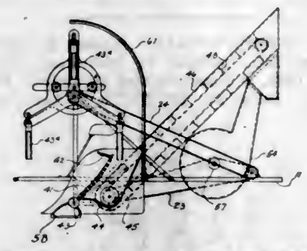
1,676,520. CAN OPENER. HAZEL H. CARTER, Norwood, Ohio. Filed May 28, 1927. Serial No. 195,118. 8 Claims. (Cl. 30—3.)



1. A can opener comprising a bar, a ratchet head pivoted thereon and having holding points adapted to pierce the can lid and hold it from turning relative thereto, a spring actuated pawl mounted on said bar and engaging the teeth of said ratchet head, a knife handle arm pivoted to said bar and having a knife on its end adjacent said ratchet head adapted to be drawn into cutting engagement with a cam by oscillating movement of said arm upon its pivot against the resistance of said pawl and ratchet head.

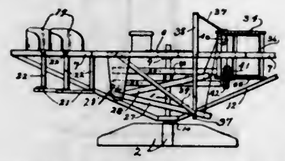
1,676,521. HARVESTING MACHINE FOR SOY BEANS AND THE LIKE. FLOYD CARTER, Gridley, Ill. Filed Oct. 10, 1925. Serial No. 61,737. 3 Claims. (Cl. 56—128.)

1. A harvesting machine for beans, comprising a rotatable reel, flat beaters carried by said reel and positioned to engage the standing bean plants, means for retaining said beaters in vertical position during the rotation of the reel, a yielding grid disposed in the path of said beaters and cooperating with said beaters to thresh the beans from the plants, a transverse hopper positioned



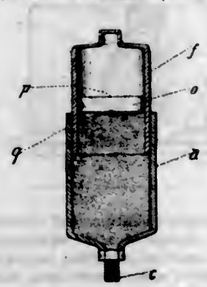
below said grid to receive the threshed beans, and a screw conveyor operating in said hopper to remove the beans therefrom.

1,676,522. ROTARY AMUSEMENT DEVICE. EMERY E. CLARK, Topeka, Kans. Filed Mar. 26, 1927. Serial No. 178,673. 4 Claims. (Cl. 272—33.)



1. In combination, a rotary amusement device having a base supporting member, a vertical center post rigidly attached to said base and on which the device rotates, a pair of ratchet gears rigidly attached to the post, a lever centrally and rotatably positioned on each of said gears, a pawl in the levers to engage with the teeth of said gears so that both levers will rotate in the same direction, a pair of pedals peripherally positioned and hingedly connected to said device, a frame vertically positioned on said device in working relation to the free ends of the pedals, a plurality of sheaves carried by the frame, a pair of cables connected to the free ends of each of the pedals, said cables engaging on the sheaves, the opposite ends of the cables separately engaging with one end of each of the levers for alternately rocking thereof to rigid engagement with the post by the reciprocating movement of the pedals for the continuous rotation of the said device in one direction.

1,676,523. GREASE CUP. EWALD CONRAD, Quasnitz, near Leipzig, Germany, assignor to the Firm Aktien-Gesellschaft für Schmiertechnik, Leipzig, Germany. Filed May 4, 1926, Serial No. 106,630, and in Germany May 9, 1925. 2 Claims. (Cl. 184—39.)



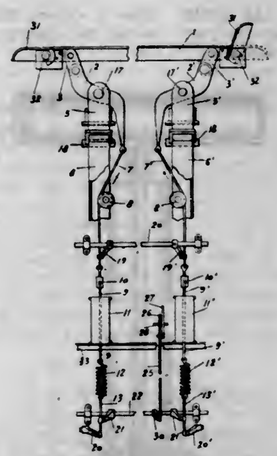
1. A grease cup from which grease is expelled by compressed air, comprising a container having an outlet for the grease, a cap adapted to be forced into the cup to compress the air, and a hollow piston fitted into the cap, said piston having a small opening of capillary dimensions in its upper surface to gradually equalize air pressure.

1,676,524. AERIAL. GEORGE ROSS CONRAD, Watson, Mo. Filed Feb. 4, 1926. Serial No. 86,007. 6 Claims. (Cl. 250—33.)



1. An aerial comprising a pole having laterally projecting means at its lower end for securing it to a vertical side of a building, wire supporting means projecting from the upper end of said pole, wire anchoring means spaced below said pole and having an attaching portion for attachment to the building, and aerial means depending from said supporting means and connected with said anchoring means.

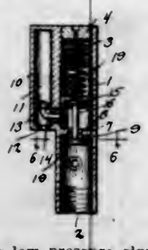
1,676,525. SHOCK-ABSORBING MEANS FOR AUTOMOBILES. EMILE CONTI, Alfortville, France. Filed Nov. 22, 1926, Serial No. 150,000, and in France Nov. 28, 1925. 7 Claims. (Cl. 180—83.)



1. In a motor propelled vehicle having a chassis, the combination of a plurality of pivotally mounted levers at the front end of said chassis, a transverse bumper hinged to said levers, a plurality of shock absorbers carried by said chassis, flexible means interconnecting said levers and

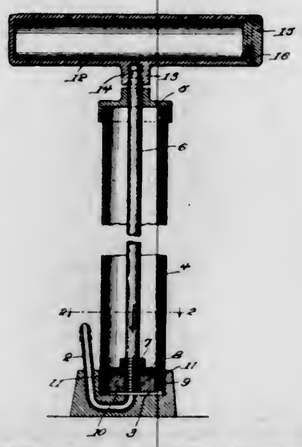
said shock absorbers and means associated with said first mentioned means for causing the movement of a single lever to be transmitted to each of said shock absorbers when said bumper is displaced.

1,676,526. LOW-TIRE-PRESSURE SIGNAL. JOSEPH B. COX, Tulare, Calif. Filed Feb. 3, 1927. Serial No. 165,718. 1 Claim. (Cl. 116—34.)



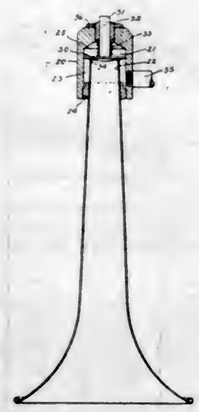
A pneumatic tire low pressure signal of the character described, comprising an elongated tubular body adapted to be threaded at one end upon a tire valve stem and having its other end closed, said body being provided intermediate its end with a centrally apertured partition and further having a lateral opening formed through the wall thereof between the partition and said closed end, a valve head upon each end of said stem, one of said heads being designed to close the aperture of said partition, and further being formed to permit air to pass between its edge and the adjacent wall of the tubular body, a resilient body arranged within the tubular body having one end bearing against the closed end thereof with its other end bearing against the adjacent valve head, and an air operated signal arranged to receive air from said lateral opening of the tubular body substantially as and for the purpose described, said valve head having the resilient member bearing thereagainst being designed to close the lateral opening upon the fall of the air pressure below a predetermined point, the closed end of said tubular body comprising a plug body threaded into the tubular body and adapted to be adjusted therein to regulate the tension of said resilient member.

1,676,527. AIR PUMP. JOHN A. CRIMP, Yakima, Wash. Filed Apr. 25, 1927. Serial No. 186,371. 1 Claim. (Cl. 230—272.)



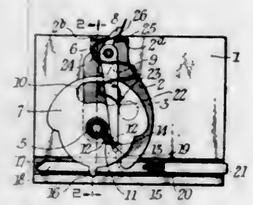
In combination, a pump including a piston rod, a hollow handle supported by said rod and open at one end, said handle having a depression adjacent its open end, a plug adapted to be removably fitted in said end, and a spring pressed plunger carried by the plug and adapted to be received by said depression for the purpose specified.

1,676,528. SOUND SIGNAL. ROBERT M. CRITCHFIELD, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Sept. 23, 1927. Serial No. 221,472. 3 Claims. (Cl. 116—142.)



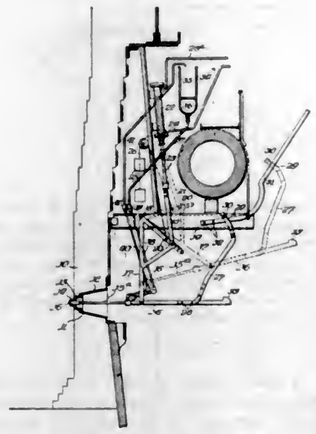
2. A fluid pressure operated sound signal comprising, in combination, a body member having a cylindrical recess, a wall member for closing one end of the recess and having an aperture coaxial with the recess, a projector having its throat projecting through said aperture and spaced from the cylindrical wall of said recess, a rigid disc having a sliding fit within the cylindrical wall of said recess, a rod to which the disc is attached, said rod being received within a hole provided in the end wall of the body adjacent the disc, a helical coil spring surrounding the rod and located between the disc and the body member for urging the disc against the end of the throat of the projector within the recess, and a fluid pressure inlet duct leading into the space between the body and the exterior of the projector.

1,676,529. CAMERA, SHUTTER. MAURICE EUGÈNE CUENDET, Lausanne, Switzerland, assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 21, 1926. Serial No. 110,678. 11 Claims. (Cl. 95—59.)



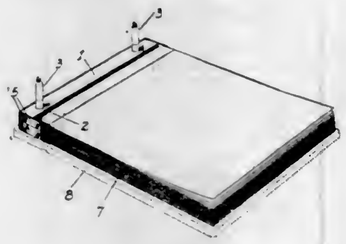
1. In a photographic shutter, the combination with a blade having an elongated slot terminating in a pair of spaced slots, shutter operating mechanism including a lever adapted to be moved, said lever having a portion engaging the slot, being adapted to move the shutter by engaging the elongated slot and being adapted to hold the shutter blade in a fixed position by engaging one of the spaced slots.

1,676,530. CINDER-NOTCH STOPPER. JAMES DEWAR, Chicago, Ill. Filed Feb. 19, 1927. Serial No. 169,498. 3 Claims. (Cl. 266—42.)



1. A cinder notch stopper comprising in combination, a dolly bar, a stopper mounted on one end thereof, an operating lever connected to said dolly bar intermediate the ends thereof, power operating means connected to said lever, a guide connected to the rear end of said dolly bar, and a track extending backward and upward upon which the upper end of the said guide is adapted to travel.

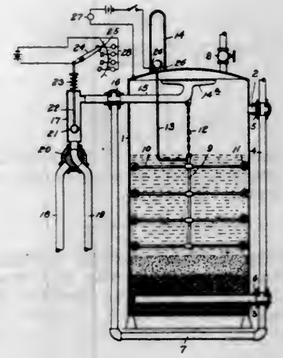
1,676,531. TRANSFER-FILER HANGER. RICHARD H. DODD, Stockton, Calif. Filed Mar. 18, 1927. Serial No. 176,457. 3 Claims. (Cl. 129—19.)



1. A hanger for the purpose described comprising a body having spaced openings to receive file binding posts, and an element rigidly fixed connected to the body and extending continuously from end to end thereof on which to hang a book or the like.

1,676,532. APPARATUS FOR TREATING WATER. ANDREW J. DOTTERWEICH, Pittsburgh, Pa. Filed Dec. 24, 1924. Serial No. 757,912. 3 Claims. (Cl. 210—24.)

1. In apparatus adapted to treat water by passage through a mass of treating material contained in a tank, said treating material being normally granular but adapted to become caked by use and requiring washing to restore it to granular condition, the combination with such a tank of means to admit wash water to the bottom of the tank and to draw it off at the top, an internal member adapted to be embedded in the granular treating material and to rise therewith after caking thereof upon admission of wash water below the cake of treating material, and an external visible member adapted to rise with said internal member, whereby to indicate the position of said treating material relative to the tank.



1,676,533. GUN SIGHT. MAURICE DRIEOHE, Butte, Mont. Filed Sept. 16, 1926. Serial No. 135,889. 1 Claim. (Cl. 33—51.)

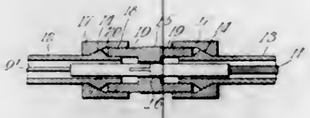


A gun sight for a double-barreled gun comprising a base member consisting of a pair of split bands substantially encircling the gun barrels, a thickened web disposed beneath the barrel connecting web of the gun and integrally connecting the lower ends of said bands, a set-screw threaded through said band connecting web and into engagement with said barrel connecting web whereby the sight is longitudinally adjustably secured to the gun barrels, upwardly and laterally extending right angularly shaped arms secured to the outer sides of said bands, side sight points arranged at the outer ends of the laterally extending portions of said arms, an inverted V-shaped member secured at its lower ends to the outer ends of the laterally extending portions of said arms adjacent to said side sight points and having its apex disposed above the center of said barrel connecting web, and a central sight point formed on said apex.

1,676,534. LIQUID-LEVEL-INDICATING MEANS. GEORGE J. DUNBAUGH, Jr., Chicago, Ill., assignor to Champion Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 14, 1923. Serial No. 662,650. 2 Claims. (Cl. 64—30.)

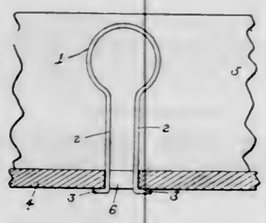
1. Driving mechanism comprising a relatively long rigid shaft adapted to be rotated, a flexible shaft connected to one end of said rigid shaft to rotate therewith, a sheathing section enclosing said rigid shaft and having an enlarged end, a second sheathing section enclos-

ing the flexible shaft and having an enlarged end, a coupling section engaging the enlarged ends of said sheathing sections, and nuts slidable on said sheathing sections



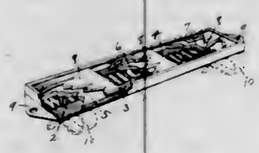
and engaging the adjacent ends of the coupling section and abutting against said enlargements to hold said parts in assembled relation.

1,676,535. BRICK OR TILE VENEER BINDER. SPENCER C. ESTILL and JAMES A. TODD, Fort Worth, Tex. Filed Dec. 29, 1923. Serial No. 683,477. 3 Claims. (Cl. 72—103.)



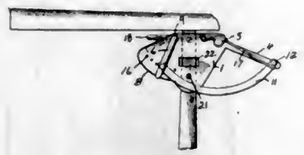
1. A binder for securing brick and tile to a wooden wall comprising a body of a single piece of steel wire and curved horizontally and forming a loop to lie between and to be embedded in mortar between surfaces of adjacent brick and provided with shanks adapted to project through the wooden wall and provided with terminals bent against the inner side of the wooden wall.

1,676,536. TEMPERATURE-INDICATING MEANS. KARL A. FERKEL, Los Angeles, Calif. Filed Aug. 26, 1925. Serial No. 52,623. 5 Claims. (Cl. 116—114.)



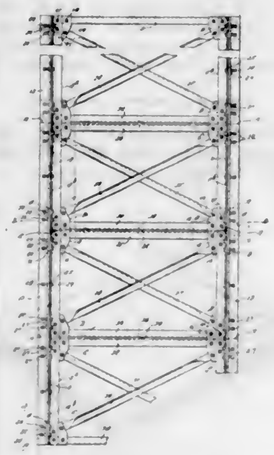
1. Temperature indicating means of the character referred to including a container having therein a plurality of different chambers, a colored signal element associated with each chamber, a covering substance in each of said chambers normally hiding from view said signal element, said substances being capable of changing their form so as to expose to view said signal elements covered thereby, and requiring different temperatures to cause said change in form, whereby to indicate that one temperature has been reached and another has not been reached.

1,676,537. VISOR ATTACHMENT FOR MOTOR VEHICLES. ARTHUR G. FORSTER, Oakland, Calif. Filed Oct. 19, 1925. Serial No. 63,296. 5 Claims. (Cl. 296—95.)



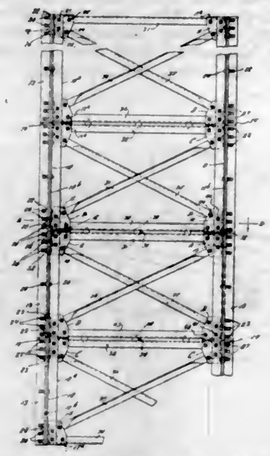
5. In a device of the type described, a visor moving arm, a support for rotatively carrying said arm, and having recesses therein, and a spring pressed catch adapted to enter any one of said recesses for holding said arm in adjusted position, said arm having a portion thereof curved around said support and bearing against the opposite side of said support.

1,676,538. FABRICATED-STEEL TOWER OR DERRICK CONSTRUCTION. CLARENCE B. FOSTER, Glendale, Calif., assignor of one-sixth to Frederick L. Feisthamel, one-sixth to Arthur J. Carr, and one-sixth to Thomas A. Collins, Los Angeles, Calif. Filed July 17, 1926. Serial No. 123,134. 14 Claims. (Cl. 189—13.)



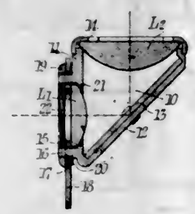
1. In a structure of the nature disclosed, the combination of: relatively spaced triple-angle corner leg columns, each comprised of only two opposed inner leg angles and one intermediate outer leg angle disposed in relatively spaced back-to-back relationship to form a corner leg column substantially cross-shape in cross section; transverse girts forming the respective sides of the structure and connecting the adjacent corner leg columns, the girts of each side being secured at opposite ends to the adjacent inner leg angles of the associated leg columns; means connecting the inner leg angles of each corner column independently of the intermediate leg angles thereof; and independent removable means for securing the intermediate leg angle of each corner column to the inner leg angles thereof, whereby the intermediate leg angles may be independently removed.

1,676,539. FABRICATED-STEEL DERRICK OR TOWER CONSTRUCTION. CLARENCE B. FOSTER, Glendale, Calif., assignor of one-sixth to Frederick L. Feisthamel, one-sixth to Arthur J. Carr, and one-sixth to Thomas A. Collins, Los Angeles, Calif. Filed July 17, 1926. Serial No. 123,135. 13 Claims. (Cl. 189—13.)



1. In a structure of the nature disclosed, the combination of: relatively spaced triple-angle corner leg columns, each comprised of only two opposed inner leg angles and one intermediate outer leg angle disposed in intimate back-to-back contact to form a compact corner leg column substantially cross-shape in cross section; transverse girts forming the respective sides of the structure and connecting the adjacent corner leg columns, the girts of each side being secured at opposite ends to the adjacent inner leg angles of the associated leg columns; means connecting the inner leg angles of each corner column independently of the intermediate leg angles thereof; and independent removable means for securing the intermediate leg angle of each corner column to the inner leg angles thereof, whereby the intermediate leg angles may be independently removed.

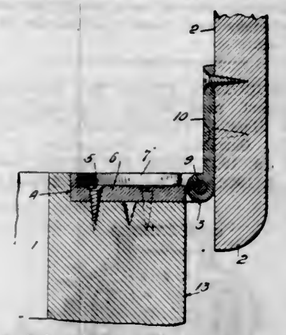
1,676,540. CAMERA FINDER. CHARLES W. FREDERICK, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 27, 1926. Serial No. 112,107. 5 Claims. (Cl. 88—1.5.)



1. A camera finder comprising two spaced positive lenses, spaced by a distance approximating the focal length of one of the lenses, and one surface of one of the lenses being a paraboloid.

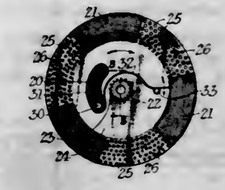
1,676,541. HINGE. JOSEPH FRIEDMAN, New York, N. Y. Filed June 3, 1927. Serial No. 196,194. 1 Claim. (Cl. 16—128.)

A hinge adapted to fit an auger hole and have one leaf flush with the sides of a box and a depressed center adapted to receive the other leaf of the hinge so that when the other leaf is folded into the depression it will lie substantially flush with the surrounding rim so that when this hinge is adapted to a box and its cover a



single auger hole will be sufficient for one member and the other member may be secured to the under side of the cover, whereby a hinge may be secured in place with a minimum of cutting and fitting.

1,676,542. MOTION-PICTURE PROJECTOR. EDWIN C. FRITTS, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 14, 1925. Serial No. 69,142. 8 Claims. (Cl. 88—19.4.)



1. In a motion picture projector, the combination with a blade shutter, of a safety shutter adapted to cooperate therewith, the two shutters being movably mounted with respect to each other, means including a weight on one shutter and a guideway for the weight on the other shutter for defining the movement of one shutter relative to the other.

1,676,543. CONDENSATION PRODUCT OF UREA AND FORMALDEHYDE AND PROCESS OF MAKING SAME. ALPHONSE GAMS and GUSTAVE WIDMER, Basel, Switzerland, assignors to the Firm: Society of Chemical Industry in Basle, Basel, Switzerland. Filed May 20, 1926, Serial No. 110,529, and in Switzerland June 5, 1925. 18 Claims. (Cl. 260—3.)

1. A process for the manufacture of condensation products from urea and formaldehyde, wherein the condensation is conducted in presence of active carbon, the latter being afterwards eliminated in any desired stage of the condensation.

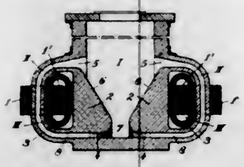
1,676,544. CHIMNEY. WILLIAM E. GILSON, St. Louis, Mo. Filed Oct. 14, 1926. Serial No. 141,508. 3 Claims. (Cl. 72—94.)



1. A chimney construction comprising a column of abutted internal tubular members, a column of external abutted tubular members in spaced relationship to said

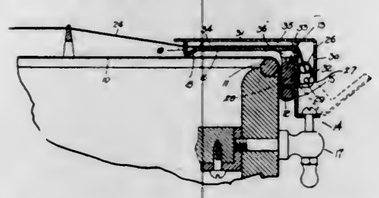
internal members, a monolithic mass of concrete between said members, the abutments between the internal members and the abutments between the external members being disaligned an amount adapted to provide successive forms, whereby said monolithic column of concrete may be built up.

1,676,545. INDUCTION FURNACE. REINHOLD GROSS, Hohenneuendorf, near Berlin, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed June 16, 1927, Serial No. 199,204, and in Germany July 2, 1926. 8 Claims. (Cl. 266—1.5.)



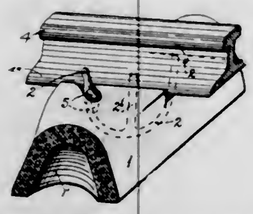
1. An induction furnace comprising in combination, a hearth, a transformer core, a channel surrounded by the transformer core and communicating on the one hand with the bottom of said hearth and on the other hand with a point vertically above the bottom opening, and an inclined hearth wall between the openings of said channel whereby the cross-section of said hearth is reduced toward the bottom.

1,676,546. EXTENSION TAILPIECE. ALBERT D. GROVER, Long Island City, N. Y. Filed Feb. 4, 1925. Serial No. 6,746. 6 Claims. (Cl. 84—300.)



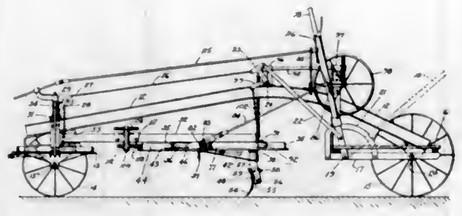
1. An extension tail piece for stringed musical instruments comprising a head plate extending over the head of the instrument and having a V-shaped lip, the latter being provided with spaced slots to receive and guide the strings beyond the head plate, the other end of the plate being bent at an angle to provide a rim plate the upright side portions of which are bent outwardly to form ears, and a cover plate hinged at one end in said ears and having its opposite end supported on and projecting beyond the upturned edge of the lip.

1,676,547. RAIL-HOLDING TIE. CARL G. GULBRAND, Los Angeles, Calif. Filed Apr. 18, 1927. Serial No. 184,669. 5 Claims. (Cl. 238—378.)



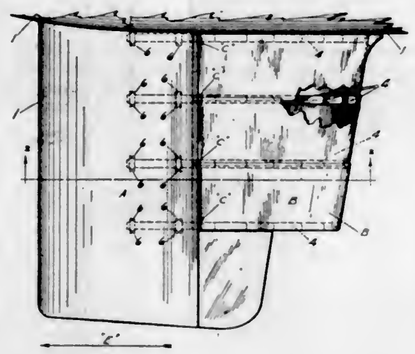
1. A cast railway tie having cavities formed therein from the underside thereof with openings up through the top surfaces of said tie, holding members inserted up through said openings and having angle portions adapted to be turned simultaneously to overlie and clamp a rail flange to said tie.

1,676,548. ROAD-FINISHING MACHINE. CARL A. GUSTAFSON, Minneapolis, Minn., assignor to Russell Grader Manufacturing Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Sept. 25, 1922. Serial No. 590,408. 12 Claims. (Cl. 37—156.)



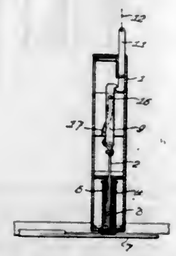
1. In a road grader, a blade comprising a central section, and a pair of end sections, the contiguous ends of said sections being connected by spring-controlled connecting means, and means for adjusting horizontally and at times vertically, the outer end of each end section.

1,676,549. AIRCRAFT. CHARLES S. HALL, Los Angeles, Calif., assignor to Hall Airways Corporation, Dover, Del., a Corporation. Filed Feb. 1, 1922, Serial No. 533,466. Renewed Nov. 28, 1927. 3 Claims. (Cl. 244—12.)



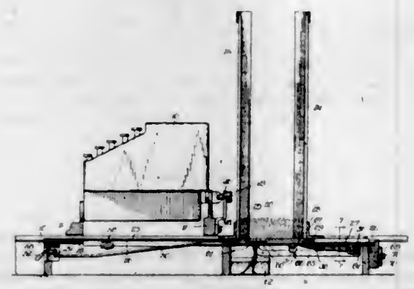
1. In an aircraft wing, the combination of; a forward body portion forming a part of the aliform contour thereof; a flexible trailing element forming a continuation and completion of the aliform contour, the forward margin of upper body element of the said trailing portion being rigidly attached to the rearward margin of the forward body portion, the lower forward margin of the said trailing element slidably held upon the upper, inner, surface of the rearward margin of the lower body element of the forward body portion; and a rib element arranged within the said aliform body portion by the said forward and the said rearward body portion, the said rib having a forward portion of rigid construction in conformity with the aliform contour of the said wing, the rearward portion of the said rib being formed by a leaf spring the same being arranged in cantilever position in the said forward portion, the leaves of the said spring being of receding lengths and of inverse proportion to their common cantilever position, the said spring forming a supporting element for the rearward and flexible portion of the said wing forming elements, substantially as shown.

1,676,550. WATER-CLOSET SYSTEM. ANTON HANAMANN, Vienna, Austria. Filed Nov. 8, 1923, Serial No. 673,571, and in Austria Nov. 16, 1922. 2 Claims. (Cl. 4—64.)



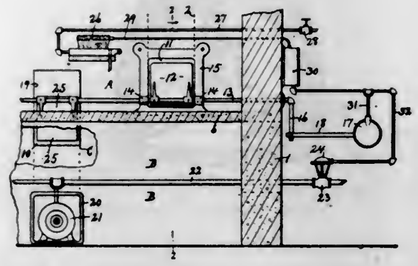
1. In a water closet system a seat, a member rigidly secured to the seat, resilient means acting on said member to maintain said seat normally in a lifted position, a hooked pawl arranged to be moved both by the said member and the said resilient means, a hooked member connected to the water discharge pipe and arranged to be engaged by the hooked pawl, a fixed guide providing a slot, the said hooked pawl engaging said guide slot, the said slot being arranged to bring the said hooked pawl and hooked member positively into and out of engagement.

1,676,551. FEED MECHANISM FOR STENCIL-CUTTING MACHINES. NATHAN C. HEATON, Westmont, Ill., assignor to Montgomery Ward & Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 23, 1924. Serial No. 757,676. 21 Claims. (Cl. 197—1.)



1. A mechanism of the class described, the combination with a writing head, and a platen operatively related thereto, of a magazine for the cards or sheets to be acted on by the writing head, and means operable by the writing head for feeding said cards or sheets from the magazine to said platen, said feeding means being responsive to the movements of the writing head when positioning the latter with respect to the platen to establish operative relation between the writing head and said feeding means, and means for interrupting the operative relation between the writing head and the feeding means when the writing head is moved in the direction of a line of writing.

1,676,552. APPARATUS FOR DRYING LUMBER. HIRAM L. HENDERSON, Syracuse, N. Y. Filed Feb. 21, 1927. Serial No. 169,852. 1 Claim. (Cl. 34—46.)



In a dry kiln having a drying chamber and a heating chamber communicating with each other through a recirculating passage having a fresh air inlet port, said drying chamber having a ventilating port, separate dampers for said ports, a rock shaft connecting said dampers, fluid-pressure-operated means for rocking the shaft and thermally-controlled means for varying the fluid-pressure in said fluid-operated means.

1,676,553. SCREEN FOR PICTURE PROJECTION. EDWARD R. HEWITT, Midvale, N. J. Filed Mar. 13, 1925. Serial No. 15,363. 4 Claims. (Cl. 88—24.)



1. A screen for picture projecting having a coating of small crystals of calcium tungstate and an adhesive securing said crystals to form a contiguous surface.

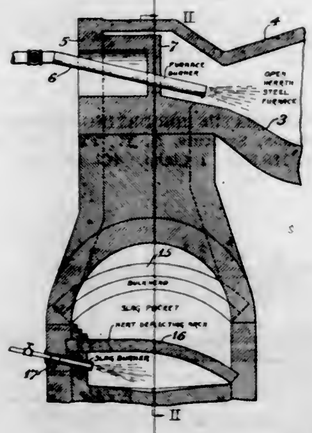
1,676,554. TOPICAL MEDICINE. ALDUS ARTHUR HOOPMAN, Seattle, Wash. Filed July 6, 1925. Serial No. 41,883. 1 Claim. (Cl. 167—9.)

A topical medicine comprising substantially equal parts of resublimed iodine, phenol and menthol, in solution in a solvent vehicle consisting of glycerine and alcohol.

1,676,555. APPARATUS FOR CLEANING SLAG POCKETS. JAMES HORNE, Birmingham, Ala. Filed June 17, 1927. Serial No. 199,590. 4 Claims. (Cl. 263—45.)

2. The combination with a slag pocket of an open hearth steel furnace and the like, comprising a bottom

sloping towards one side, a cinder hole at the low level of the bottom, a main arch disposed transversely above

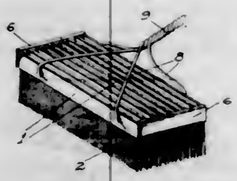


the center of the pocket, a heat deflecting arch disposed centrally under the main arch, and a gas burner entering the slag pocket below the heat deflecting arch.

1,676,556. PROCESS FOR THE PREPARATION OF SODIUM PHOSPHATE. HENRY HOWARD, Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 4, 1925. Serial No. 73,252. 9 Claims. (Cl. 23—165.)

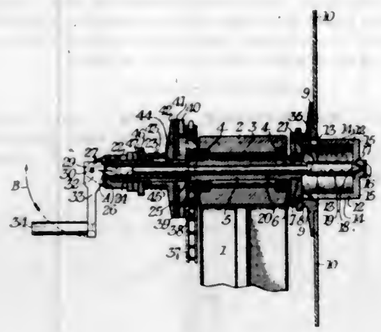
2. In a process for the preparation of sodium phosphate from a solution of phosphoric acid containing a sulfate and a silicofluoride compound the steps of which comprise treating the solution with a sodium compound and thereafter treating the solution with a barium compound capable of precipitating the sulfate content of the solution.

1,676,557. BRUSH CONSTRUCTION. ANDREW M. JENSEN, Stockton, Calif. Filed Feb. 1, 1927. Serial No. 165,077. 3 Claims. (Cl. 15—199.)



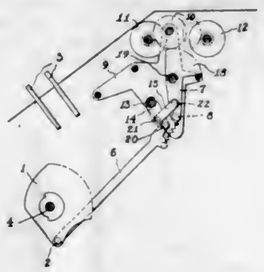
1. A brush comprising a plurality of spaced bristle holding members, wires projecting from the ends of said members, and means supporting and securing said wires at their ends to maintain the members in fixed spaced relation to each other.

1,676,558. FILM-WINDING MACHINE. JOHN G. JONES, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 4, 1927. Serial No. 180,958. 4 Claims. (Cl. 242—55.)



1. In a film winding device, the combination with a hub, said hub including a plurality of hinged hub sections, of a tubular shaft by which the hub may be rotated, a plunger in the tubular shaft adapted to engage and position the plurality of hub sections, a pivoted crank for rotating the shaft, said crank being also adapted to turn upon its pivot to engage and position the plunger whereby the hub may be turned and the hub sections may be positioned through the crank.

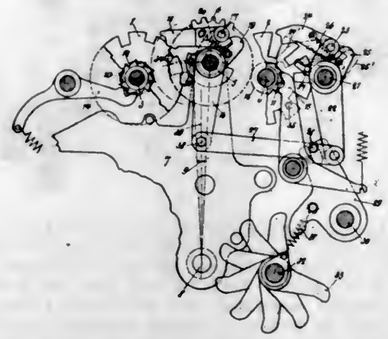
1,676,559. DUPLEX ADDING MACHINE AND CASH REGISTER. ERNST KASSNER, New York, N. Y. Filed Apr. 30, 1925. Serial No. 26,875, and in Germany May 1, 1924. 2 Claims. (Cl. 74—5.)



1. In a calculating machine, a pair of spaced gears, a pivoted carrying member, a drive lever pivoted to said carrying member and movable therewith to two operative positions, means carried by said carrying member and connected to said drive lever for selectively rotating said gears, and means for oscillating said lever when in either operative position, comprising a link arranged to be moved longitudinally through predetermined distances,

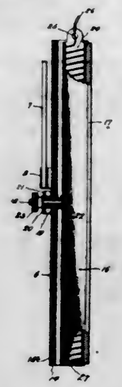
a connecting lever pivoted to said carrying member and to said link and substantially parallel with said drive lever, and a second connecting lever pivoted to said first mentioned connecting lever and to said drive lever.

1,676,560. TRANSFER MECHANISM FOR DUPLEX ADDING MACHINES, CASH REGISTERS, ETC. ERNST KASSNER, Berlin, Germany. Original application filed May 26, 1923, Serial No. 641,650. Divided and this application filed Sept. 22, 1926. Serial No. 136,942. 3 Claims. (Cl. 235—138.)



1. A decimal stepping device for machines of the kind described, comprising two multidigit counting trains, a stepping wheel for each digit of each train, a stepping pawl for each stepping wheel, a rocking arm for each stepping pawl, a link between each rocking arm of one counting train and the rocking arm of the corresponding digit of the other counting train, a revoluble main operating shaft for the machine, and means for rocking either of said links with its rocking arms at each revolution of the operating shaft.

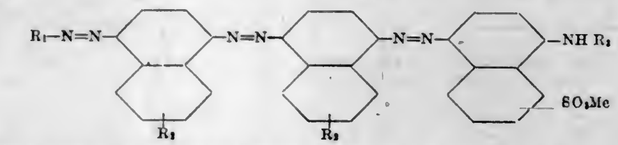
1,676,561. WINDSHIELD WIPER. SELDEN P. KIENAST, Battle Creek, and CLARENCE E. DRAKE, Parma, Mich. Filed July 11, 1927. Serial No. 204,961. 5 Claims. (Cl. 15—255.)



1. In a windshield wiper, a carrying body, a squilgee carried by said body, an electrically heated scraper carried by said body, and means whereby said scraper may be projected relative to said squilgee into contact with a windshield or withdrawn from such contact.

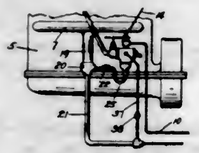
1,676,562. MANUFACTURE OF TRISAZOIC COLORING MATTERS. OSKAR KNECHT and HANS BRÜTSCH, Basel, Switzerland, assignors to Society "Chemical Works formerly Sandoz," Basel, Switzerland. Filed Dec. 16, 1924, Serial No. 756,328, and in France Jan. 11, 1924. 2 Claims. (Cl. 260—72.)

2. As new articles of manufacture the herein described trisazoic coloring matters, having the following general formula



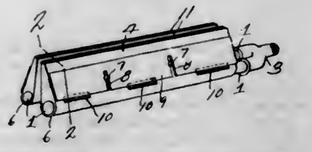
wherein R_1 stands for a benzene- or naphthalene derivative, R_2 for a hydrogen atom or the group SO_3ME, R_3 for an aromatic radical and Me for an inorganic radical, these dyestuffs constituting grey-black powders suitable for dyeing cotton of grey to black tints extremely fast to light and washing.

1,676,563. CARBURETION SYSTEM FOR INTERNAL-COMBUSTION ENGINES. SIMEON H. LA PLANT, Salida, Colo., assignor to The L. T. N. Manufacturing & Development System, Platteville, Colo., a Common Law Trust. Filed July 27, 1925. Serial No. 46,358. 10 Claims. (Cl. 123—119.)



1. In combination with an internal combustion engine, a fuel tank, a carburetor for supplying the fuel to the internal combustion engine having a restricted mixing

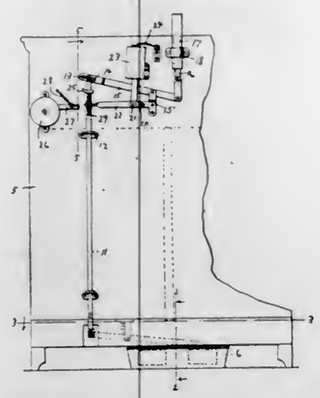
1,676,564. GAS BURNER. CHRISTIAN A. LAUSEN, Fort Worth, Tex. Filed July 26, 1927. Serial No. 208,474. 5 Claims. (Cl. 158—118.)



5. The combination with a gas burner pipe having discharge openings, a casing surrounding said pipe and rotatably mounted thereon and having a mixing chamber

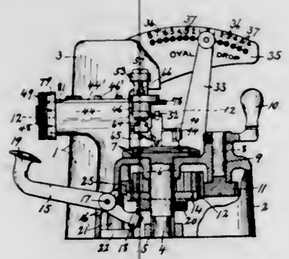
and a discharge opening, of an adjustable slide mounted on said casing and cooperating with an air intake opening, a bolt extending through said casing and slide, said bolt forming means for holding said slide in various adjusted positions and for contracting the casing into frictional engagement with the periphery of the burner pipe.

1,676,565. OVERFLOW ALARM. OLIVER LA VALLEE and ODILON LEMELIN, New Britain, Conn. Filed Jan. 7, 1928. Serial No. 245,169. 4 Claims. (Cl. 116—110.)



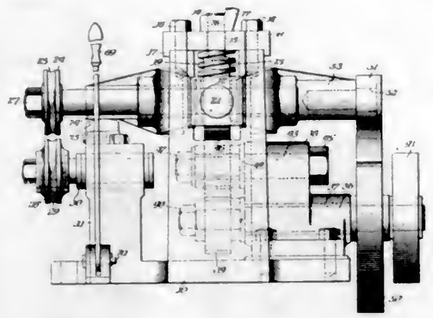
1. In a liquid level indicator of the class described comprising a float arranged within a liquid container, a gauge operatively connected therewith and adapted to register the movements of the float, an alarm actuated at a predetermined period of movement of the float and means actuated by the movement of the float to a predetermined level for removing said float from said container.

1,676,566. LENS-CUTTING MACHINE. ELI MAYNARD LONG, Geneva, N. Y., assignor, by mesne assignments, to Shur-On Standard Optical Company, Inc., Geneva, N. Y., a Corporation of New York. Filed Mar. 14, 1923. Serial No. 624,935. 15 Claims. (Cl. 33—28.)



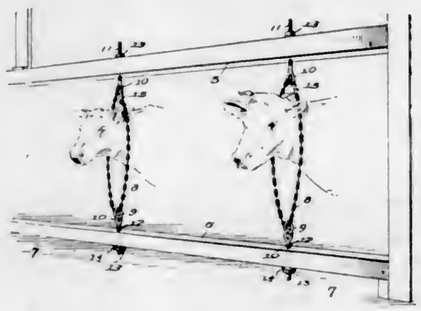
1. In a lens-cutting machine, a rotary work-holder, a pattern rotatable about an axis parallel with the axis of the work-holder and provided with a plurality of zones arranged in sequence axially and having their surfaces gradually merging one with the other, means for rotating the work-holder and pattern in unison, a cutter movable relatively to the work holder, pattern-controlled means including a contact member for moving the cutter, and an indexing device operable at will for moving the pattern axially to register any one of its zones with the contact member.

1,676,567. AUTOMATIC FEED MECHANISM FOR HEADING MACHINES. WILLIAM LOWERY, Hammond, Ind., assignor, by mesne assignments, to Hammond Bolt & Nut Company, a Corporation of Indiana. Filed Aug. 11, 1921. Serial No. 491,396. 27 Claims. (Cl. 140—128.)



1. In feed mechanism of the class described, the combination with stock-feeding means, of a support therefor having intermittent rocking movement to advance and retract the feeding means to and from the stock, a stock support cooperating with said feeding means for advancing the stock in the feeding movement, and intermittently-acting means for actuating said rocking support to engage the feeding means with the stock.

1,676,568. STANCHION. HENRY W. MCCANDLESS, New Albany, Ind. Filed Dec. 9, 1927. Serial No. 238,930. 2 Claims. (Cl. 119—119.)

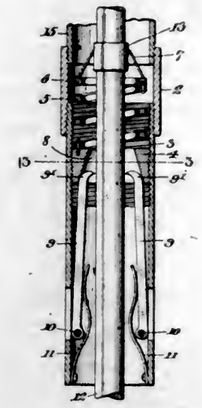


1. A stanchion comprising a pair of horizontal beams spaced from each other and having alined holes extending therethrough, relatively long eyebolts extending through said holes and rotatable and slidable therein, the eye heads of said bolts projecting from opposed faces of said beams, nuts on said bolt shanks for limiting the movement of the eye heads toward each other, a pair of chain lengths connected to said eye heads for encompassing the neck of an animal, and the adjustment of said eyebolts toward or away from each other serving to vary the lateral spreading capacity of said chain lengths to suit the neck sizes of different animals.

1,676,569. AUTOMATIC DRILL-PIPE CUTTER. KEARNEY FELIX MITCHELL, Sulphur, La. Filed Aug. 15, 1927. Serial No. 212,935. 1 Claim. (Cl. 81—191.)

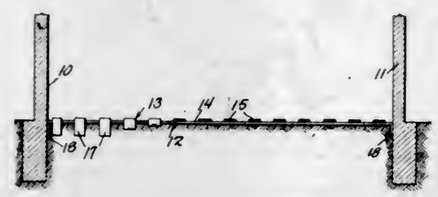
A drill pipe cutter, comprising a cylindrical shell adapted for vertical disposition within the well and over the drill pipe, the upper end of the shell being interiorly

threaded; means for connecting the shell with an operating pipe; a bit compressing collar threadedly engaging the threaded upper end of the said shell, the lower end of the collar having its inner wall beveled off conically; a coil spring mounted upon the upper end of the said collar; lock prongs mounted upon the upper end of the said



spring; cutter bars pivoted oppositely upon the interior wall of the shell below the said bit compressing collar and having their upper ends extending upwardly within the said conical lower end of the said bit compressing collar; inwardly directed bits at the upper ends of the said cutter bars; and means for normally forcing the cutter bars asunder.

1,676,570. METAL FLOORING. CASPER M. MUGLER, Clay Center, Kans. Filed Apr. 20, 1926. Serial No. 103,336. 1 Claim. (Cl. 119—15.)



In a flooring for hog sheds and the like embodying a plurality of longtudinally extending spaced parallel metal bars, and a plurality of spaced transverse metal cross bars secured to said longitudinally extending bars, the opposite ends of the said longitudinally extending bars and transverse cross bars being directed at right angles to the intermediate portions thereof to provide depending legs, said legs adapted to be embedded in the dirt floor of the hog shed while the intermediate portions of the said bars are adapted to rest on top of the said dirt floor.

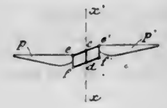
1,676,571. ELECTRIC SIGNALING DEVICE FOR VEHICLES. DANIEL F. MURPHY and LUKE COTTER, Boise, Idaho. Filed Mar. 6, 1922. Serial No. 541,440. 2 Claims. (Cl. 177—337.)

1. An electric signaling device for vehicles comprising a tubular case open at one end to be mounted upon a vehicle, a guide tube of readily magnetized material mounted within the tubular case with its outer end somewhat within the open end of the case, a return coil or solenoid disposed around the inner end of the guide tube, a drawing coil or solenoid disposed around the outer end of the guide tube, a plunger of insulating material fitted slidably within the guide tube, a drawing core carried at the inner end of said plunger, a collapsible and extensible flag mounted at the outer end of the plunger, circuit wiring from a suitable source of electric supply to selectively energize the drawing coil to project the signal flag to permit the same to expand beyond the open end of the case and to energize the return coil to retract the signal flag to be collapsed in the outer end of



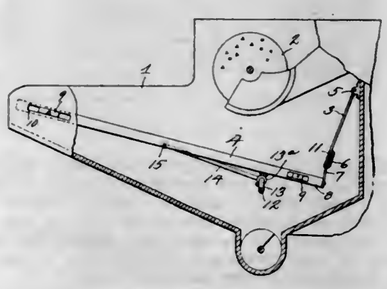
the case, said signal flag having different traffic indications on the two sides thereof, said plunger being provided with a longitudinal guide groove on one side and having a second guide groove branching helically therefrom and extending longitudinally on the opposite side, a plunger guiding switch mounted on the guide tube and having a point projecting into the guide grooves, a spring normally holding the switch with the point positioned to track in one of the grooves, and electrical means to shift the switch to position the point to track in the remaining guide groove.

1,676,572. PROPELLING OR LIFTING DEVICE WITH AUTOMATIC CORRECTION. ETIENNE OEHMICHEN, Valentigney, France. Filed Apr. 22, 1927, Serial No. 185,858, and in France May 31, 1926. 3 Claims. (Cl. 244—19.)



1. In a propelling or lifting device, the combination of a driving shaft, a jointed parallelogram whereof two opposite sides are jointed at their middle to the said driving shaft, and two blades carried by the two other sides of the said parallelogram.

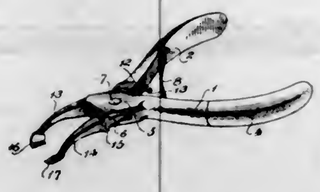
1,676,573. CORN SHELLER. FRANK OSMERA, Wauneta, Nebr. Filed Aug. 28, 1924. Serial No. 734,660. 1 Claim. (Cl. 130—7.)



The combination with a corn sheller, a separator box, means for reciprocating the separator box, of a downwardly inclined baffle board, said baffle board having its upper end hingedly mounted, an upwardly extending rigid flange carried by the separator box, a hinge connection between the lower end of the baffle board and the upwardly extending flange of the separator box, said last named hinge connection being a loose one whereby

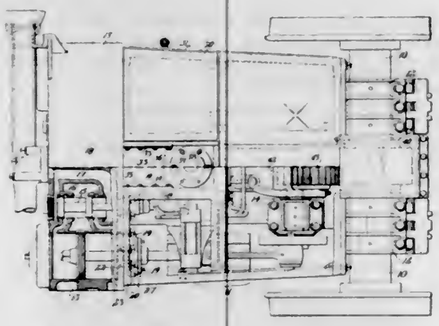
said flange of the separator box may move with the movement of the separator box and the baffle board may arcuately swing during the movement of the separator box.

1,676,574. PROCESS TRIMMER. GEORGE A. OSTERMEIER, New London, Wis. Filed Mar. 14, 1927. Serial No. 175,357. 2 Claims. (Cl. 128—318.)



1. An instrument of the character described comprising pivotally connected shafts, shanks carried on the same, the adjacent and inner sides of said shanks being formed to effect their relative spacing when in closed position, and opposed complemental blades carried on the free ends of said shanks laterally offset from the longitudinal axis of the instrument, and the cutting edges of said blades being parallel, when meeting, to said longitudinal axis of the instrument.

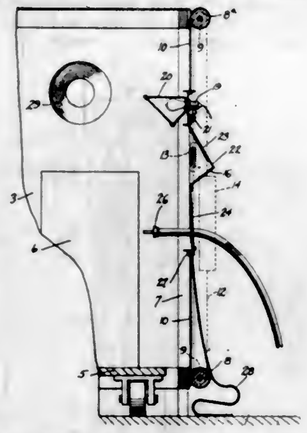
1,676,575. RAILWAY BOOSTER. MONTAGUE H. ROBERTS, Englewood, N. J., assignor to Franklin Railway Supply Company, a Corporation of Delaware. Filed Sept. 5, 1925. Serial No. 54,600. 14 Claims. (Cl. 105—133.)



1. A railway booster mechanism comprising a bed plate provided at the rear end thereof with a pair of transversely aligned walls, a multiple cylinder structure provided with an integrally formed end wall for each cylinder, and means for securing said cylinder end walls directly to said transversely aligned walls of the bed plate.

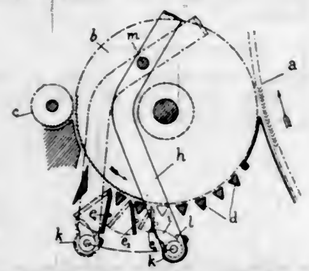
1,676,576. SAND BLAST CURTAIN. RICHARD RUBMBLIN, St. Paul, Minn. Filed May 16, 1924. Serial No. 713,801. 9 Claims. (Cl. 51—8.)

3. The combination with a cabinet adapted to contain an article having a face to receive a sand blast, of a curtain mounted for movement in a plane parallel substantially to the face of the article, doors mounted on said curtain and adapted to open and expose the interior of the cabinet and the article, said doors being movable with the curtain and having observation openings and



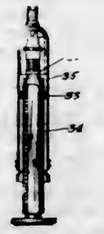
means through which a sand blast nozzle may be inserted and held opposite the face of the stone at any desired elevation thereon.

1,676,577. CARDING MACHINE. JOSEPH SCHMITT, Brunstatt, France. Filed Aug. 5, 1926, Serial No. 127,440, and in France Aug. 19, 1925. 2 Claims. (Cl. 19—105.)



1. In carding machines, the combination with a breaker cylinder and breaker-bars under the said cylinder of movably supported toothed carding-bars arranged in the intervals between the breaker-bars, and means for oscillating the said carding-bars from a working to a cleaning position and reciprocally, substantially as described.

1,676,578. VALVE STEM COVER. EMIEL P. SEGHERS, Chicago, Ill. Filed Mar. 28, 1923. Serial No. 628,180. 3 Claims. (Cl. 152—12.)



1. The combination with a valve stem, of a locking sleeve threaded thereon, a cover cap disposed over said valve stem and locking sleeve and means other than the threaded connection between said sleeve and stem for preventing accidental removal of said sleeve from said stem but operative to permit removal thereof.

1,676,579. LIGHT-TREATMENT PROCESS. GEORGE SPERTI, Covington, Ky.; ROBERT J. NORRIS, Greenville, and ROBERT B. WITHROW and HERMAN SCHNEIDER, Cincinnati, Ohio, assignors to Daniel Laurence, trustee, Cincinnati, Ohio. Filed Feb. 14, 1927. Serial No. 168,226. 9 Claims. (Cl. 99—15.)

7. The process for killing bacteria in solutions containing enzymes, which consists in treating the solutions with light from which wave lengths shorter than 2750 A° have been eliminated.

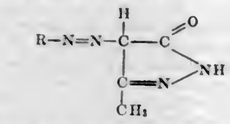
1,676,580. PHOTOGRAPH AND METHOD OF MAKING THE SAME. SAMUEL E. SHEPPARD, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 27, 1925. Serial No. 52,776. 4 Claims. (Cl. 95—88.)



1. A photograph comprising a support that is absorptive of a high percentage of visible light rays but is capable of transmitting photographically actinic light rays, and a layer thereon containing an image that is substantially opaque but is of a light appearance by reflected light, whereby the photograph is capable of use as a photographic printing negative by transmitted light, but the image appears as a positive upon a dark ground when viewed by reflected light.

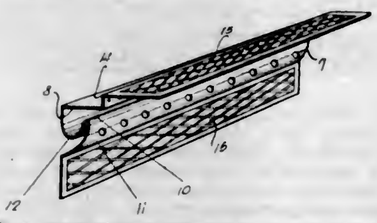
1,676,581. CHROMIUM COMPOUND OF PYRAZOLONE-AZO-DYESTUFF AND PROCESS OF MAKING SAME. FRITZ STAUB and GUILLAUME DE MONTMOLLIN, Basel, and MAX SCHMID, Riehen, near Basel, Switzerland, assignors to the Firm Society of Chemical Industry in Basle, Basel, Switzerland. Filed Dec. 16, 1927, Serial No. 240,622, and in Switzerland Dec. 24, 1926. 6 Claims. (Cl. 260—12.)

3. As new products the chromium compounds of the dyestuffs of the general formula:



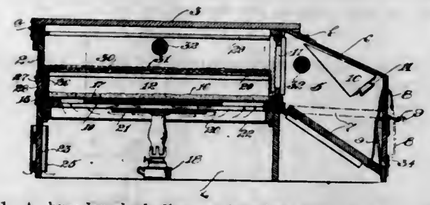
wherein R means an aryl residue which contains in ortho-position to the azo-group an hydroxyl group, which products form orange to red and brown powders which dissolve in water with orange to red coloration, dyeing wool fast orange to red tints.

1,676,582. CORNER PIECE FOR BUILDINGS. DONALD R. STUART, Omaha, Nebr. Filed May 5, 1927. Serial No. 188,931. 3 Claims. (Cl. 72—125.)



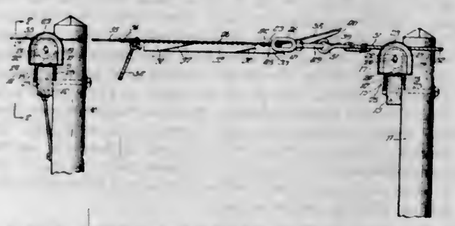
1. In a corner-piece for the purposes described, a metallic strip bent to provide a horizontal wing and a vertical wing adjacent to the horizontal wing, said vertical wing being bent to provide a combined holder-ledge and screed, the horizontal wing being bent to provide a screed disposed forwardly of the plane of said holder-ledge.

1,676,583. BROODER. WALTER E. STRAW, Keene, Tex. Filed May 5, 1927. Serial No. 188,989. 2 Claims. (Cl. 119—32.)



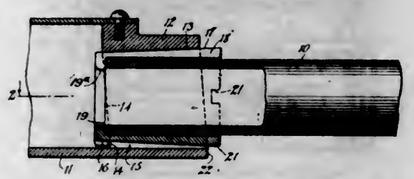
1. A brooder including a housing having a heating chamber containing a hover mountable at different levels therein; a lamp thereunder; a feeding chamber disposed also in said housing forwardly of said heating chamber and provided with a transparent cover; means hinged to the sides of said housing capable of being moved to operative position to support said cover in slightly raised position to admit air; a porous night partition for closing the passage between said chambers and capable of being moved to close the opening formed when said transparent cover is held slightly raised, and means for ventilating said chambers.

1,676,584. MEANS FOR STRINGING CONDUCTORS. SELIM N. TIDEMAN, Wilmette, Ill., assignor to Pierce Electric Company, a Partnership composed of J. M. Pierce, S. N. Tideman, R. A. Morrison, and Paul Pierce. Filed Feb. 18, 1926. Serial No. 89,249. 4 Claims. (Cl. 175—376.)



1. In a device of the character described, the combination with a member adapted to be mounted on a cross arm and having spaced guiding means thereon, of a member adapted to be drawn over said first mentioned member and having substantially parallel guiding means thereon cooperating with said first mentioned guiding means, and means for securing wires to said last mentioned member substantially in alignment with the guiding means thereon.

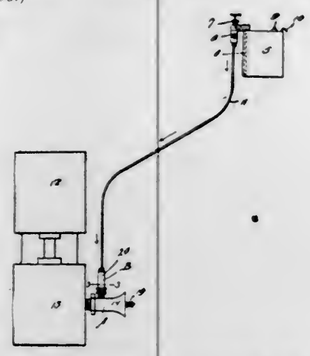
1,676,585. LOCKING COUPLING. THOMAS B. TIEFENBACHER, North Elizabeth, N. J. Filed Oct. 28, 1925. Serial No. 65,393. 2 Claims. (Cl. 247—25.)



1. A pipe coupling, comprising a fitting having a smooth, conical socket provided with a shoulder having a cam surface at its inner end and a longitudinal groove

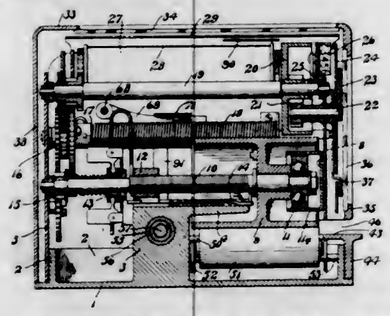
extending throughout the length of the socket, and a conical split bushing adapted to encircle the end of a pipe, said bushing having a smooth exterior surface and provided at its inner smaller end with an exterior laterally projecting lug, said lug adapted when the bushing and pipe are inserted in the socket, to engage the cam surface of the shoulder of the socket, whereby when the bushing is turned it will be drawn into the socket in tight engagement therewith and effect contraction of the bushing and gripping of the pipe.

1,676,586. AIR-COMPRESSION-CYLINDER LUBRICATOR. GEORGE F. TURNER, Mahoningtown, Pa. Filed June 27, 1927. Serial No. 201,771. 1 Claim. (Cl. 230—206.)



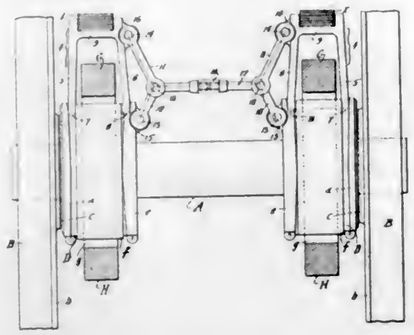
A device for automatically controlling the feeding of oil to an air compressing cylinder comprising in combination a valve casing formed with a valve seat therein and having means to engage the casing in communication with the cylinder, an air inlet, a check valve in the casing closable against the seat away from the cylinder, spring means urging the valve against the seat, a second valve casing tapped into the first mentioned valve casing to extend laterally therefrom, a valve seat in said second mentioned casing, an oil check valve in the second mentioned casing closable against the seat therein away from the first mentioned casing, spring means urging the second mentioned check valve closed against the second mentioned seat, and means for connecting the end of the second mentioned casing remote from the first mentioned casing with a source of oil.

1,676,587. CLOTH-MEASURING MACHINE. ANTHONY VANDERVELD, Grand Rapids, Mich., assignor of one-half to Harry B. Parrish, Grand Rapids, Mich. Filed Sept. 7, 1926. Serial No. 133,949. 20 Claims. (Cl. 33—133.)



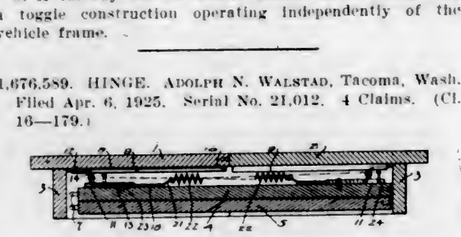
1. In a measuring machine including a measurement indicator actuated by cloth passed through the machine, said machine having a definite starting point, of means movably mounted and adapted in one position to cover said measurement indicator and means for operating said movably mounted means to move it to covered position, said last mentioned means being actuated by placing cloth in the machine with the end of the cloth extending beyond said starting point.

1,676,588. LATERAL MOTION FOR AXLE BOXES. JOHN S. WALLIS, Great Neck, N. Y., assignor to Franklin Railway Supply Company, a Corporation of Delaware. Filed Aug. 15, 1925. Serial No. 50,347. 13 Claims. (Cl. 105—80.)



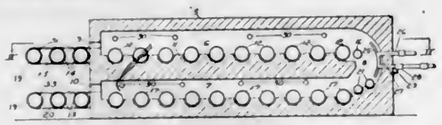
3. A railway vehicle lateral motion device comprising a toggle construction operating independently of the vehicle frame.

1,676,589. HINGE. ADOLPH N. WALSTAD, Tacoma, Wash. Filed Apr. 6, 1925. Serial No. 21,012. 4 Claims. (Cl. 16—179.)



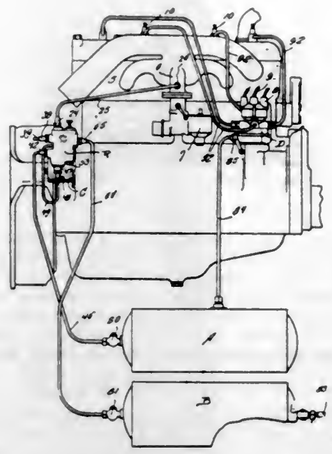
1. A hinge adapted to secure two bodies together, comprising a hinge plate slidably mounted on one body; a complementary hinge plate slidably mounted on the other body; and a pivot pin connecting both said hinge plates together, whereby said two bodies are secured together and one body is permitted a slidable and revolvable movement with relation to the other body.

1,676,590. FURNACE FOR HEATING METAL SHEETS AND PLATES. RUDOLPH W. STULER, McKeesport, Pa. Filed Apr. 17, 1924. Serial No. 707,084. 4 Claims. (Cl. 263—6.)



1. A pack heating furnace comprising a furnace structure having upper and lower longitudinally extending chambers therein, an input door opening into the top chamber at the front of the structure, a discharge door at the same end of the furnace opening into the bottom chamber, pack conveying means in each chamber, said upper and lower chambers being connected by a vertical passage, and idler rollers in the furnace in juxtaposition to the vertical passage.

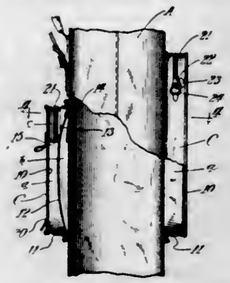
1,676,591. VAPORIZED GAS AND AIR STARTER FOR AUTOMOBILES AND THE LIKE. JOHN H. WELLER, Cadillac, Mich. Filed Apr. 19, 1927. Serial No. 184,939. 2 Claims. (Cl. 123—180.)



1. A regulator for the purpose specified, comprising a body having a cylinder formed therein, a valve guide in the cylinder, a valve seat cap in the cylinder, said body formed with a passage adapted to lead from the suction end of a compressor, a valve stem in the guide, a valve on the end of the valve stem cooperable with the valve seat cap, a by-pass leading from the first mentioned passage into the other end of the cylinder, said body having an opening leading from said other end of the cylinder and adapted to be connected with the atmosphere, a valve seat in the by-pass, a second valve on the valve stem, spring means normally holding the second valve closed and the first valve open, said body formed with a second cylinder to which the valve stem extends, means communicating the bottom of the second cylinder with the outlet end of a compressor, a hollow piston slidable in the second cylinder, spring means normally holding the piston downwardly, said piston having an opening, said body formed with a passage leading from the bottom of the second cylinder and adapted to be connected with a storage tank, said body formed with a third cylinder, a passage leading from the bottom of the second cylinder to the bottom of the third cylinder, a piston slidable in the third cylinder and of hollow construction and having its side opening, said body having an opening adjacent its upper end adapted to be communicated with an air tank, and also provided with an escape passage above the last mentioned opening, spring means in the third cylinder normally holding the hollow piston therein downwardly.

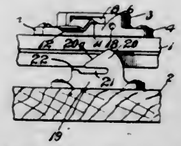
1,676,592. GOLF BAG. JAMES S. WHITE, Chicago, Ill. Filed Jan. 27, 1927. Serial No. 163,879. 7 Claims. (Cl. 150—1.5.)

1. A latch construction, comprising a latch housing having spaced apart slotted sides one of said slots having a recess disposed at right angles to the length of the slot joining therewith, a latch lever passing through the slots and formed with a part struck therefrom to bear against the inner side of one side of the housing, said lever also having a boss struck therefrom in the opposite direction and located so as to be received in said recess when moved to proper position, and spring means acting on said lever to turn it in one direction so that the boss is normally carried away from said recess, said means also acting to tilt the lever to automatically position the boss in said recess on movement of the lever



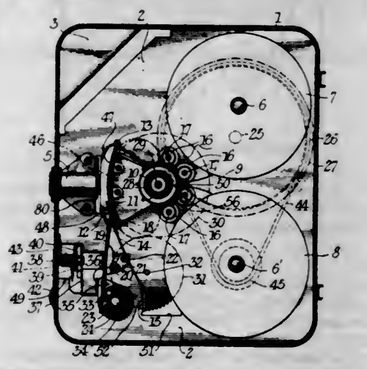
against the force of the spring to a position such that the boss is brought to the recess, substantially as described.

1,676,593. CUPBOARD LATCH. ALEXANDER F. WINTERS, Grand Rapids, Mich. Filed Jan. 19, 1925. Serial No. 3,294. 4 Claims. (Cl. 292—228.)



1. A latch construction, comprising a latch housing having spaced apart slotted sides one of said slots having a recess disposed at right angles to the length of the slot joining therewith, a latch lever passing through the slots and formed with a part struck therefrom to bear against the inner side of one side of the housing, said lever also having a boss struck therefrom in the opposite direction and located so as to be received in said recess when moved to proper position, and spring means acting on said lever to turn it in one direction so that the boss is normally carried away from said recess, said means also acting to tilt the lever to automatically position the boss in said recess on movement of the lever against the force of the spring to a position such that the boss is brought to the recess, substantially as described.

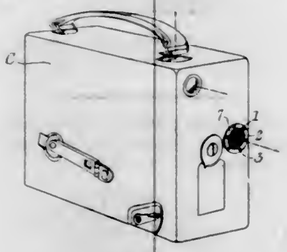
1,676,594. MOTION-PICTURE MECHANISM. OTTO WITTEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 17, 1926. Serial No. 88,791. 8 Claims. (Cl. 88—18.4.)



1. In a motion picture apparatus, a film driving sprocket having a series of equi-spaced teeth about its periph-

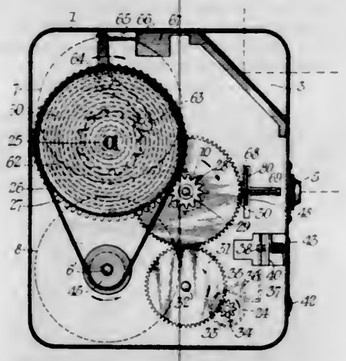
ery, two rolls having a position near the periphery of the sprocket and adapted to hold a perforated band in driving relation with the sprocket, the angular relation of said rolls to the axis of the sprocket being the same as that of two of the teeth of the sprocket, mechanism by which the sprocket may be turned and means operative on said mechanism and providing a stop therefor, there being a definite predetermined relation between the stopping means and the mechanism such that one of the teeth will automatically stop in a definite predetermined position between said rolls.

1,676,595. OPTICAL UNIT FOR CAMERAS. OTTO WITTEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 13, 1926. Serial No. 108,796. 16 Claims. (Cl. 95—45.)



1. In an optical unit for cameras, the combination with an objective including two lens cells, of a barrel for supporting the lens cells at a fixed separation, connections between one lens cell and the barrel through which one lens cell may turn therein, and a plurality of diaphragm leaves operatively connected to the movable and fixed lens cells whereby the light opening may be altered by moving the movable lens cell.

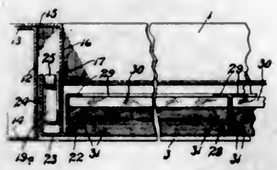
1,676,596. SPRING MOTOR. OTTO WITTEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 13, 1926. Serial No. 108,797. 9 Claims. (Cl. 185—37.)



1. In a motion picture camera, a spring motor comprising a continuous coiled spring band and an antifriction band interwound therewith.

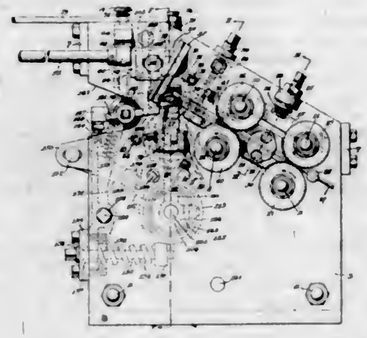
1,676,597. WINDOW CONSTRUCTION. FAY A. YEAGER, Muskegon, Mich., assignor to Joachim R. M. Knudsen, Muskegon, Mich. Filed Sept. 20, 1926. Serial No. 136,414. 8 Claims. (Cl. 189—69.)

1. In a window, an open rectangular frame of metal having vertical spaced apart sides, a metal flange spaced inwardly a short distance from each vertical side of the frame and permanently connected to said frame, a bar of angle form attached vertically to the outer side of each of said flanges, each of the said bars having a downwardly and inwardly inclined lower section and each having an outwardly extending flange, a sash frame adapted to be detachably located in the opening of the first frame, said



sash frame having vertical sides of U-shape passing over the outer portions of said first flanges and covering the same, and a roller connected to the outer leg of the U-shaped portion of each of said vertical sides of the sash frame at the inner side of said leg and extending over and back of the adjacent flange of the angle bar connected to the said flange embraced by said U-shaped portion.

1,676,598. SPRING-FORMING MACHINE. WILLIAM H. BLEUEL, Detroit, Mich. Filed Nov. 27, 1925. Serial No. 71,634. 22 Claims. (Cl. 153—65.)



1. In a spring forming machine wherein springs are formed from wire stock, a mandrel on which the wire stock is formed, means for feeding the wire stock to the mandrel, a convolution former adjacent said mandrel and against which former the wire stock impinges and is coiled, a spring actuated rock shaft supporting said convolution former to move the said former away from said mandrel, a slide bar retaining said convolution former in a defined position relative to said mandrel, and a pivoted guide adapted to be adjusted relative to said mandrel and former to cooperate with the latter in regulating the size of a spring convolution.

1,676,599. BODY CONSTRUCTION. PAUL E. BRENEMAN, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed Mar. 4, 1926. Serial No. 92,223. 3 Claims. (Cl. 296—28.)

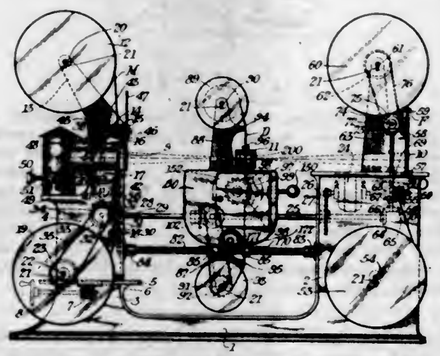
1. A pillar for an automobile body comprising an inner and an outer sheet metal trough sectioned member secured together in nested relation to form a hollow structure, an

angle member secured to the inner face of said inner member at the upper end thereof to provide a horizontal



attaching flange, and an offset member secured to said member adjacent to said angle member to provide a vertical attaching flange.

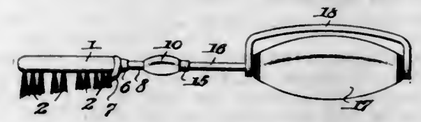
1,676,600. DIAPHRAGM CONTROL FOR PROJECTION PRINTERS. JOHN G. CAPSTAFF, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed June 8, 1923. Serial No. 644,277. 7 Claims. (Cl. 88—24.)



1. In a projection printer, two separated gates, mechanism for moving a master strip and a sensitized strip past said gate respectively in timed relation, an optical system for projecting an image from the master strip at one gate upon the sensitized strip at the other gate, adjustable means for controlling the amount of light so projected and positioned between the two films, and means connected to and movable in timed relation with the mechanism and controlling the adjustment of said adjustable means at definite, adjustably predetermined, timed intervals throughout the time when the printer is in operation, whereby the amount of light so projected may be varied at any time in accordance with a predetermined schedule.

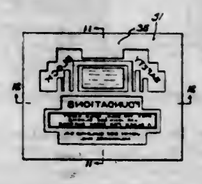
1,676,601. FOUNTAIN TOOTHBRUSH. LEO C. CAVANAUGH, Youngstown, Ohio. Filed Oct. 23, 1926. Serial No. 143,646. 5 Claims. (Cl. 15—136.)

1. A fountain tooth brush including a brush-head having a chamber therein, openings extending outwardly from said chamber, a bushing fitted into the chamber, a tube having one end thereof connected with said bushing, a valve casing connected with the opposite end of said tube for controlling the passage therethrough, a second tube having an end thereof slidably and removably re-



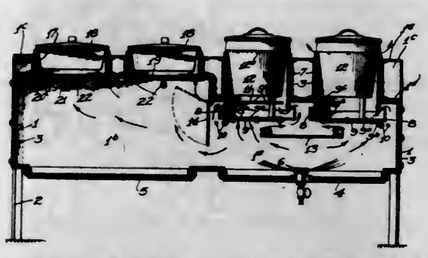
ceived in the opposite side of said valve casing, and a pressure bulb for receiving a liquid connected with the outer end of said last mentioned tube for receiving fluid therethrough and forcing said fluid through the valve casing and tubes into the brush-head.

1,676,602. METHOD OF FORMING MOLDS FOR PRINTING PLATES. LESLIE W. CLAYBOURN, Milwaukee, Wis. Filed May 9, 1927. Serial No. 189,894. 8 Claims. (Cl. 101—401.2.)



1. A method of forming a mold for a printing plate which includes making a mold of the form whereby depressions of the printing portions are formed in the face side of the mold, and then removing a portion of said face side of the mold in which such depressions of printing portions have not been formed to an even depth equal to the depth of said previously formed depressions, and thereby forming a depression in said face side of said mold for bearer area on the printing plate formed from said mold.

1,676,603. COOKING AND HEATING APPLIANCE. WILLIAM R. DICK, San Diego, Calif. Filed June 15, 1925. Serial No. 37,044. 17 Claims. (Cl. 126—39.)

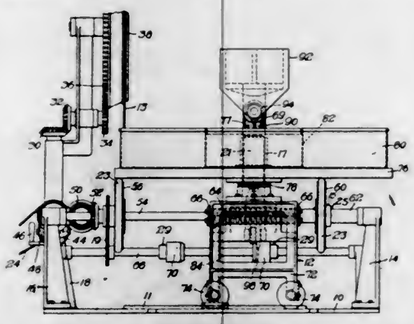


1. In an appliance of the class described, a body provided with a combustion chamber, a heating means positioned in said combustion chamber, a receptacle container supported at the upper portion of said combustion chamber, communicating at its lower end therewith and adapted to receive a receptacle and support the same at its upper end, said container being adapted to surround the outer side wall of said receptacle in spaced relation relatively thereto, a heat diverting plate positioned at the lower end of said container, there being provided passages at the lower end of said container, permitting gases of combustion from said combustion chamber to pass into said container and upwardly therein around the receptacle adapted to be positioned therein.

1,676,604. QUALITY OF SULPHUR. CARLETON ELLIS, Montclair, N. J. Filed Dec. 26, 1922. Serial No. 609,133. 23 Claims. (Cl. 106—22.)

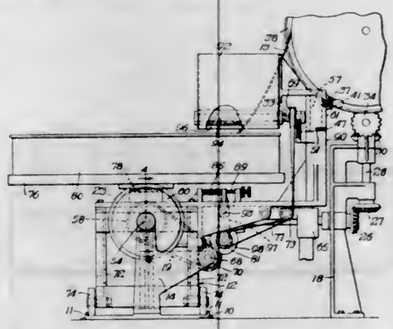
1. A composition comprising sulphur and a sulphur-containing resin miscible therewith.

1,676,605. FEEDING MECHANISM. CARL DEMPSTER HART, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 31, 1923. Serial No. 654,960. 4 Claims. (Cl. 91—13.)



2. In a machine for handling strand, a strand receiving means, a receptacle for material having a relative movement with respect to the receptacle, and means associated with the receptacle to cause a discharge of material from the receptacle into the receiver at predetermined points in the relative movement of the receiver and the receptacle.

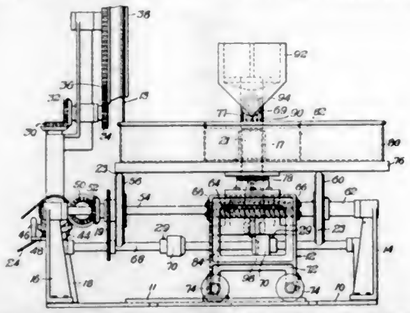
1,676,606. FEEDING MECHANISM. HENRY FLEETWOOD ALBRIGHT, Jr., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 31, 1923. Serial No. 654,961. Renewed Mar. 20, 1928. 10 Claims. (Cl. 242—83.)



1. In a machine for storing strand, a platform, a receiver mounted thereon, and means for imparting a combined rotating and lateral motion to said platform to store a strand in the receiver.

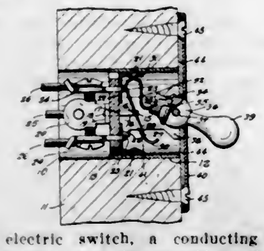
1,676,607. FEEDING MECHANISM. LESLIE FAWCETT LAMPLOUGH, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 31, 1923. Serial No. 654,962. Renewed Feb. 21, 1928. 8 Claims. (Cl. 91—13.)

1. In a machine for handling strand material having a receptacle for receiving the strand material, a rotary support for the receptacle, a chamber for other material, and means for controlling the discharge of the material from said chamber to said receiving receptacle comprising a control element, the combination therewith of a



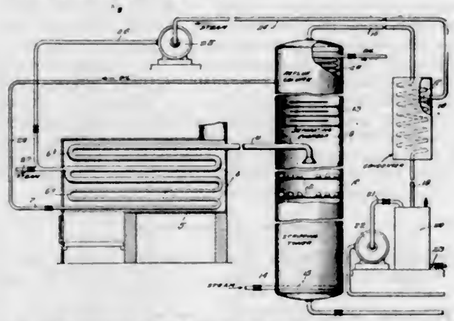
reciprocating member associated with said receiving receptacle, and means operated by said member for operating said control element.

1,676,608. BATTERY SWITCH. HARVEY HUBBELL, Jr., Bridgeport, Conn., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn., a Corporation of Connecticut. Filed Nov. 14, 1925. Serial No. 69,007. 6 Claims. (Cl. 200—67.)



1. In an electric switch, a conducting member, a stationary contact at one side of said member, a switch member pivotally mounted on the conducting member and adapted to engage the stationary contact, said switch member comprising a body portion pivoted to the conducting member and an end portion curved backwardly upon the body portion and then extending outwardly away from the body and terminating in a free end, and a rocking lever engaging said free end to swing the switch member about its pivot.

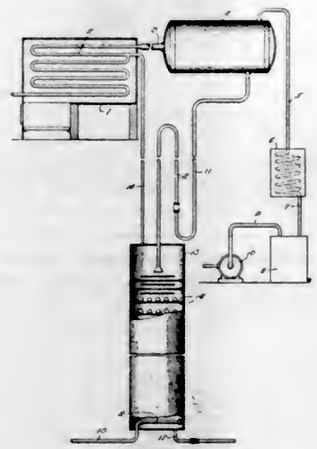
1,676,609. ART OF DISTILLING HYDROCARBON OILS. ROGER D. HUNNEMAN, Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Dec. 12, 1924. Serial No. 755,429. 14 Claims. (Cl. 196—85.)



1. The method of distilling hydrocarbon oils comprising passing the oil in a confined stream of restricted cross section through a heating zone into an enlarged separating chamber, separately removing from said separating chamber vapors and unvaporized liquid, passing the unvaporized liquid in countercurrent to a current of steam, and forcing at least a part of said steam and vapors carried thereby into the stream of oil flowing through the heated zone.

10. In distillation apparatus, a tower having an intermediate enlarged chamber, stripping plates therebelow, refluxing plates above said chamber, means for introducing steam into the lower portion of said tower, a heating coil emptying into the enlarged chamber in the tower, means for supplying oil to the heating coils, and means for maintaining subatmospheric pressure within the tower.

1,676,610. ART OF DISTILLING HYDROCARBON OILS. ROBERT E. WILSON, Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Dec. 22, 1924. Serial No. 757,395. 12 Claims. (Cl. 196—85.)

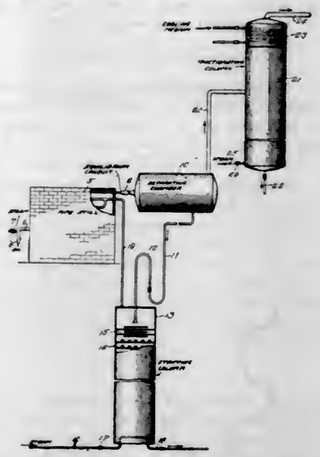


1. The method of distilling hydrocarbon oils which comprises passing such oil in a confined stream through a heating zone, discharging the stream of oil into an enlarged chamber, wherein separation of vaporized products takes place, removing unvaporized oil from said chamber and immediately subjecting said unvaporized oil to direct contact with steam, thereby completing the removal of the lighter constituents thereof, forcing the steam and vapors carried thereby into the stream of heated oil at an intermediate point in the heating zone, and maintaining a sufficient head of liquid in the discharge line from the vaporizing chamber to prevent return of steam and vapors therethrough.

11. In apparatus for the distillation of oil, a heating conduit, means for supplying oil and means for supplying steam thereto, means for heating said conduit, an enlarged separating drum, an unheated conduit larger than the heating conduit and connecting the outlet of the latter with the drum and means for removing vaporized and unvaporized products from the drum.

1,676,611. ART OF CONTINUOUS DISTILLATION OF HYDROCARBON OILS. ROGER D. HUNNEMAN, Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Mar. 27, 1925. Serial No. 18,818. 5 Claims. (Cl. 196—85.)

1. The method of distilling hydrocarbon oils which comprises passing the oil in a confined stream through a heating zone, discharging the oil into a separating chamber, supplying steam in said chamber at substantially the same temperature as the oil and in thermal equilibrium therewith, separately removing unvaporized oil and vapors from said chamber, subjecting the removed unvaporized oil to the action of live steam, thereby removing lighter fractions therefrom, withdrawing from the system the thus treated unvaporized oil, commingling the removed lighter fractions with the vapor contents of the separating chamber, subjecting the vapors removed from the separating chamber to a refluxing action and separately collecting the reflux formed.

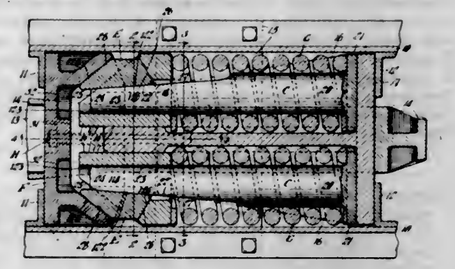


5. In distillation apparatus, a heated conduit, a separator into which said conduit discharges, said separator effecting separation of vapors and unvaporized oils, a scrubbing tower, means for supplying unvaporized oil from said separator to the scrubbing tower, means for introducing steam into the lower portion of said scrubbing tower, means for leading vapors from said scrubbing tower into the heating conduit, a vapor conduit leading from the separator, a fractionating tower into which the vapor conduit opens at an intermediate point, and means for separately withdrawing reflux from said tower.

1,676,612. CELLULOSE-ESTER COMPOSITION. RICHARD L. KRAMER, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 6, 1924. Serial No. 736,367. 14 Claims. (Cl. 134—79.)

5. A product comprising cellulose nitrate and methylphenoxy-ethyl phthalate in substantially the proportion of .75 to 2.0 parts of phthalate to 1 of pyroxylin.

1,676,613. FRICTION SHOCK-ABSORBING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Aug. 19, 1926. Serial No. 130,122. 13 Claims. (Cl. 213—36.)



1. In a friction shock absorbing mechanism, the combination with a plurality of column elements having longitudinally arranged friction surfaces, certain of said

column elements having limited lateral movement, said last named column elements having friction surfaces on the outer sides thereof diverging inwardly of the mechanism; of friction members co-operating with said column elements including friction shoes cooperating with said friction surfaces; means for yieldingly opposing relative movement of said members and elements; and means for wedging said friction shoes laterally, inwardly against the friction surfaces of said elements and effecting relative longitudinal movement thereof.

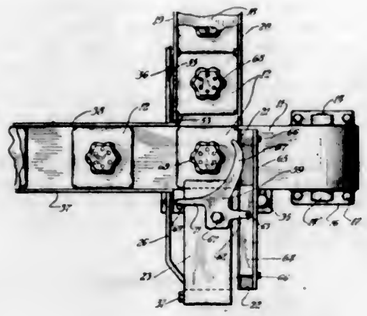
1,676,614. FREQUENCY-GROUPING ARRANGEMENT FOR COMMUNICATION SYSTEMS. RAYMOND A. HEISING, Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 31, 1923. Serial No. 683,631. 8 Claims. (Cl. 250—9.)



1. In a system for carrying on multiplex two-way communication by means of a certain range of wave frequencies in which the available frequency range is divided into groups, each group being composed of two portions each containing the same number of wave frequencies and comprising one or more pairs of two-way channels corresponding to the frequency groups, said groups being so physically related as to tend to interfere, means for transmitting a wave of one frequency from each portion in opposite directions to constitute a two-way channel, and means for receiving each said transmitted wave and combining it with the locally transmitted wave to produce a difference frequency wave, the difference between the frequencies of the pairs of waves for the two-way channels of each group being constant within each group, which constant amount differs for each group.

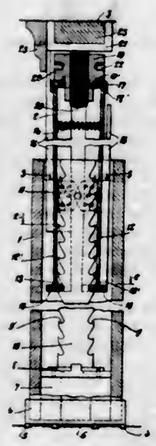
1,676,615. SIFTER-TOP-CLOSING DEVICE. NICHOLAS LORSEL, Richmond Hill, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed May 28, 1925. Serial No. 33,581. 18 Claims. (Cl. 113—1.)

1. In combination, feeding mechanism for box parts, said box parts including a rotatably positioned cap having sifter openings therein, and means automatically operable during the operation of said feeding mechanism for turning said caps upon the box parts to close said sifter



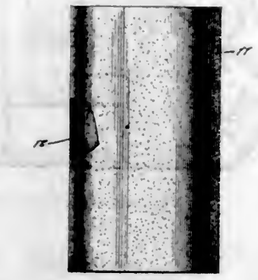
openings, said means comprising a closing member bearing against the side of said cap, and devices for reciprocating said closing member.

1,676,616. EXTENSIBLE PILASTER. SAMUEL LOWY, New York, N. Y. Filed June 17, 1925. Serial No. 37,655. 13 Claims. (Cl. 20—4.)



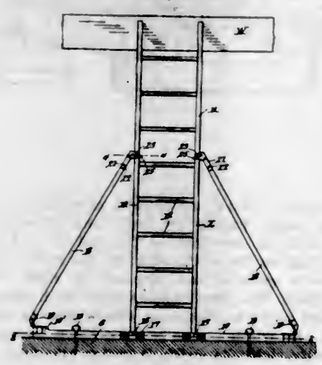
1. In an extensible pilaster, a main hollow post, a second post within said hollow post extending upwards from the base thereof, notches along the length of said second post, a jacket over said second post adapted for longitudinal movement relatively thereto and provided with a lug adapted to engage one of said notches, and resilient means for releasing said lug from said engagement.

1,676,617. FIBER BOARD FOR CONTAINERS AND THE LIKE. DONALD G. MAGILL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed July 31, 1922. Serial No. 578,536. 2 Claims. (Cl. 91—68.)



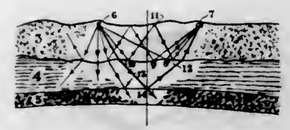
1. Fiber board, for use in the formation of can bodies and the like, comprising fibrous stock impregnated with a mixture of paraffine and Montan wax, said mixture having a melting point in excess of the theoretical mean melting point of the component parts of the mixture, said impregnation producing a fiber board of increased stiffness and strength.

1,676,618. LADDER SUPPORT. JOHN W. MORRIS, Rensselaer, N. Y. Filed Mar. 28, 1927. Serial No. 178,975. 3 Claims. (Cl. 228—64.)



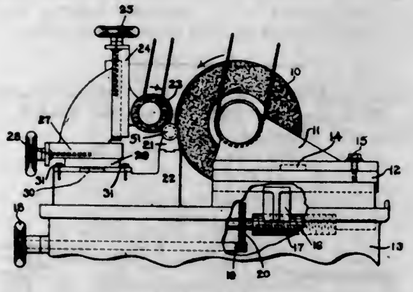
1. A ladder support comprising a horizontal base member adapted to rest upon the ground or other support and extend across a ladder, said member being adapted to engage and hold against sliding movement relative thereto the lower end of a ladder, rigid brace elements pivotally secured to said base member adjacent its ends and movable from an operative position, in which they extend upwardly from said base member at an inclination thereto, to an inoperative position in parallelism with said base member, said brace members having means serving to secure the same when in operative position to the opposite sides of a ladder a substantial distance above said base member, and serving also to fasten the same in said inoperative position to said base member.

1,676,619. METHOD AND APPARATUS FOR STUDYING GEOLOGIC CONTOURS. BURTON MCCOLLUM, Washington, D. C. Filed Oct. 12, 1923, Serial No. 668,244. Renewed Sept. 8, 1927. 5 Claims. (Cl. 181—0.5.)



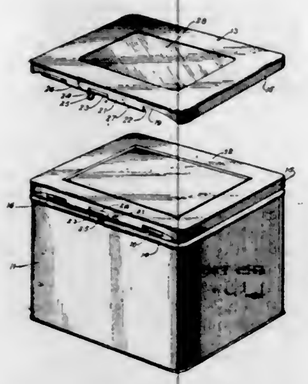
4. In the art of determining the slope of a subsurface rock layer overlaid by a layer of undisintegrated rock covered in turn by an unconsolidated stratum, the method which comprises producing wave energy by a source located in said overlying undisintegrated rock, and determining at a point in said overlying undisintegrated rock the time interval between the emission of said wave energy from said source and the arrival thereat of the wave energy reflected from said sub-surface rock layer.

1,676,620. GRINDING APPARATUS. CHARLES H. NORTON, Plainville, Conn., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 2, 1923. Serial No. 610,093. 6 Claims. (Cl. 51—103.)



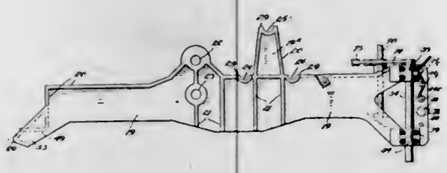
1. In apparatus of the character described, in combination, a grinding throat adapted for simultaneous grinding and rotating action upon work of round section and comprising three means, one of which means is in the form of a grinding wheel adapted to be rotated at a relatively high speed, another of said means being in the form of a regulating wheel adapted to be rotated at a relatively low speed and in a direction to present an operative surface traveling in a direction opposite from that of the adjacent grinding wheel surface and adapted thereby to control the rotation of the work, and the third of which means includes a member for holding work of round section in operative relation to said two wheels, each of said means being shaped to present a line of contact to work of round section and said three means being related one to the other so that the lines of contact presented thereby to the work form elements of a frustrum of a cone; and means for moving a work piece into and through said grinding throat and in a direction from the larger end of said grinding throat to the smaller end thereof, thereby progressively to grind a frusto-conical surface from one end of the work to the other and to reduce the work piece to a diameter equal to that of the smaller end of the frustrum.

1,676,621. INTERCHANGEABLE - COVER CRACKER CAN. AUGUST PITTELKOW, Chicago, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 6, 1922. Serial No. 599,181. 12 Claims. (Cl. 220—32.)



1. A cracker can, comprising a body having hinge bearings in a wall thereof and spaced apart, a cover having curled flange sections arranged between said hinge bearings, and a longitudinally movable hinge part permanently mounted to slide in either direction in said flange sections and adapted to be removably inserted alternately in said bearings to form a hinge connection.

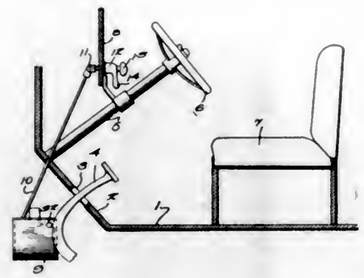
1,676,622. TRACTOR. WILLIAM S. L. ULRICH, Grafton, Ill. Filed Nov. 24, 1923. Serial No. 676,810. 8 Claims. (Cl. 180—41.)



1. In a tractor having driving mechanism, driving wheels and a guide wheel mechanism, a unitary frame comprising a single casting having two longitudinal side members and a plurality of cross web members, a foot adapted to project downwardly at one end of the frame, a plurality of sets of bearings cast integral with the frame, one set being disposed at the end opposite the foot for the support of the guide wheel mechanism, other sets being disposed at different levels centrally of the frame for the driving wheels, and the remaining sets of bearings being arranged and adapted for the driving mechanism.

1,676,623. MULTIPLE LOCK. ERVEN R. TURNER, Memphis, Tenn., assignor to Clinton Burl Grant, Memphis, Tenn. Filed Apr. 2, 1926. Serial No. 99,421. 7 Claims. (Cl. 70—126.)

1. In a device of the character described, a casing, an operating rod extending into said casing, an operating shaft mounted in said casing and operatively connected to said rod, a spreader member mounted on said shaft, a



pivoted arm arranged adjacent said member and adapted to be actuated thereby, and a plunger connected to said arm and adapted to be projected thereby.

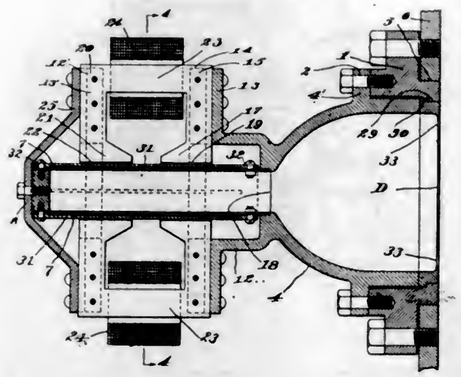
1,676,624. TRACTOR MECHANISM. WILLIAM S. L. ULRICH, Grafton, Ill. Filed Nov. 24, 1923. Serial No. 676,811. 6 Claims. (Cl. 74—26.)

1. A tractor driving mechanism comprising, in combination, a motor having its shaft longitudinally of the tractor, a friction cone-gear at the end of said shaft, a thrust bearing on the shaft adjacent the motor, a second shaft movable endwise and disposed at right angles to the first shaft, two bevel wheels rigid with said second shaft spaced apart so that said wheels may be free from contacting the friction cone gear, a block on said shaft longitudinally rigid therewith, a wedge arranged to move said block in one direction to shift the shaft endwise, whereby one of said bevel wheels engages the friction gear, a relatively inverted wedge arranged to move the block to shift the shaft in the other direction, whereby the other bevel wheel may be made to mesh with the friction gear to reverse the rotation of the movable shaft, means to move said wedges, a gear on the movable shaft, and other gears arranged to mesh therewith to drive the tractor wheels.

1,676,625. SOUND TRANSMITTER. WILLIAM L. WALKER, New York, N. Y. Filed Mar. 18, 1922, Serial No. 544,962. Renewed Oct. 21, 1927. 10 Claims. (Cl. 177—386.)

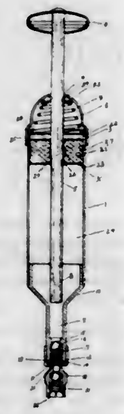
1. A submarine signaling transmitter comprising an enclosing casing, enlarged at one end portion, a transverse

resilient diaphragm closing said enlarged end, a resilient tubular portion communicating with said enlarged end portion, a substantially non-compressible liquid with-



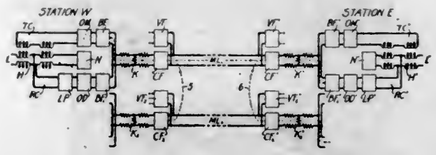
in said casing and means for vibrating said tubular portion whereby vibrations are impressed upon said diaphragm through said liquid.

1,676,626. LUBRICATING-DISPENSING APPARATUS. OSCAR ULYSSES ZERK, Chicago, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company. Filed Jan. 2, 1924. Serial No. 683,971. Renewed Mar. 12, 1926. 24 Claims. (Cl. 221—47.4.)



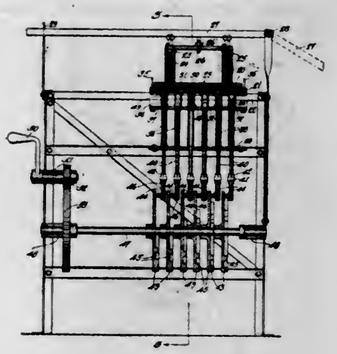
6. A lubricant compressor comprising a barrel, an axially slidable plunger extending through said barrel for ejecting lubricant at one end thereof under high pressure, an annular follower encircling said plunger for forcing a mass of lubricant toward the exit end of said barrel, said plunger being removable from said barrel, and means for drawing said follower out with said plunger.

1,676,627. METHOD AND MEANS FOR REDUCING CROSS TALK IN CARRIER-CURRENT SIGNALING SYSTEMS. HAROLD S. BLACK, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 30, 1926. Serial No. 132,452. 14 Claims. (Cl. 179—78.)



1. The method of reducing crosstalk between adjacent signaling circuits which comprises attenuating the crosstalk components at the terminals of said circuits a greater number of times and to a greater extent than the effective signalling currents therein.

1,676,628. METHOD OF BACKING ELECTROTYPE PLATES. HARRY M. BLAETZ, Philadelphia, Pa., assignor to Royal Electrotype Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 7, 1924. Serial No. 748,428. 17 Claims. (Cl. 22—203.)

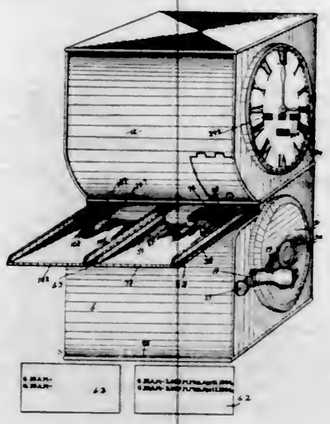


1. The method of distributing or eliminating air trapped between the back face of an electrotype and a molten backing therefor or within the backing, which consists in jarring the electrotype after the back has been applied and before it solidifies.

1,676,629. RECORDING APPARATUS. AUGUST N. E. BOOS, New York, N. Y. Filed Dec 15, 1920. Serial No. 430,911. 26 Claims. (Cl. 234—43.)

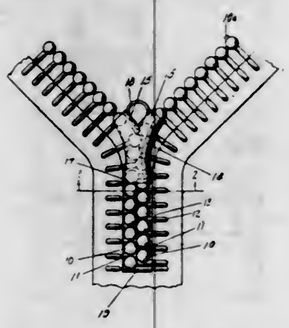
1. In a recorder having a support, a spring motor carried by the support, a plurality of groups of printing devices each including a plurality of wheels peripherally provided with stamps adapted to be operated simultaneously by the spring motor, and carried by the support, a

plurality of carriages each adapted for supporting a record sheet and further adapted to reciprocate on said support and convey the record sheet into and out of



contact with the said printing device, and selectively connected means for reciprocating said carriages each independently of the other.

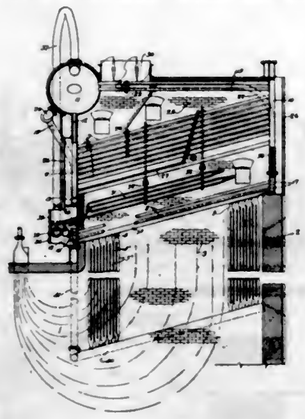
1,676,630. SEPARABLE FASTENER. ARTHUR L. BREITENSTEIN, Akron, Ohio; Maude E. Breitenstein administratrix of said Arthur L. Breitenstein, deceased. Filed Jan. 27, 1926. Serial No. 84,091. 9 Claims. (Cl. 24—205.)



9. In a device of the class described, a double series of stems and fasteners therefor, for attachment thereof to opposing edges of a piece of fabric, and spherical elements on the outer ends of said stems, adapted for interlocking with the similar elements on the opposing series of stems, said stems being disposed so as to support said elements in a plane at one side of the plane of the fabric to which they are attached.

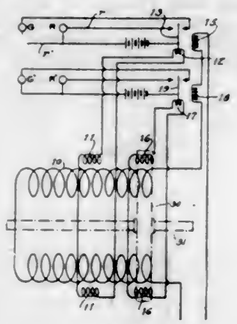
1,676,631. WATER-TUBE BOILER. BENJAMIN BROIDO, New York, N. Y., assignor to The Superheater Company, New York, N. Y. Filed Oct. 20, 1924. Serial No. 744,668. 6 Claims. (Cl. 122—235.)

1. In a water tube boiler, a steam and water drum, spaced upper and lower banks of horizontally inclined upflow generating tubes, said banks of tubes terminating at one end in correspondingly spaced header means, independent connections from each of said header means to said drum, said connections being constructed and arranged to leave the space between said header means



free and unobstructed, and superheater units extending between said spaced header means into the space between said banks.

1,676,632. METHOD OF AND APPARATUS FOR TESTING MAGNETIZABLE OBJECTS. CHARLES W. BURROWS, New York, N. Y., assignor, by mesne assignments, to Magnetic Analysis Corporation, Long Island City, N. Y., a Corporation of New York. Filed Jan. 4, 1924. Serial No. 684,368. 36 Claims. (Cl. 175—183.)

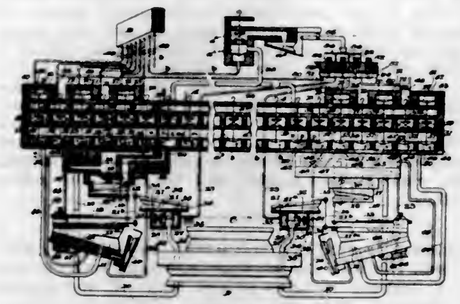


29. Apparatus for testing the physical properties of a specimen including means for producing a varying magnetic field about the specimen, and a pair of independent exploring devices in the field located in parts of the field that differ in magnetic intensity.

1,676,633. RECORD-CONTROLLED MUSICAL INSTRUMENT. TOLBERT F. CHEEK, New York, N. Y., assignor, by mesne assignments, to Welte-Mignon Corporation, New York, N. Y., a Corporation of Delaware. Filed May 7, 1921. Serial No. 467,649. 25 Claims. (Cl. 84—41.)

1. In a piano playing mechanism, striker pneumatics, a source of power for actuating the striker pneumatics, expression controlling means to control the degree of pressure at the striker pneumatics in accordance, with the setting of said expression controlling means for high, low or intermediate pressures respectively, pressure maintaining means for maintaining substantial uniformity of the pressure for which the pressure controlling means may

be set, whatever number of striker pneumatics be simultaneously operated, a spring connecting said expression controlling means with said maintaining means, to transmit the action of the former to the latter, an operating pneumatic connected to the expression controlling means to operate the same, and humanly operable means connected to the operating pneumatic to control the same.

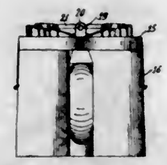


1,676,634. TIRE-RIM TOOL. WILLIAM H. CONNER, Berkeley, Calif. Filed June 3, 1926. Serial No. 113,406. 4 Claims. (Cl. 157—1.)



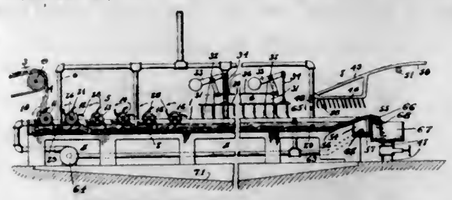
1. A tire rim tool comprising a pair of anchor heads, each having a hook adapted to engage a side of the tire rim and a leg on said hook adapted to abut against the inner edge of the tire rim, and an arm extending perpendicularly to the plane thereof, a rod having a pointed outer end and a threaded inner end and fixed to each arm, and means connecting the rods for drawing the arms together when the anchor heads are seated on the flange of the rim, and for moving them apart when the pointed heads are bearing against the inner surface of the rim.

1,676,635. COMPOUND CONDIMENT HOLDER. MICHAEL COSTELLO, Jersey City, N. J. Filed Dec. 15, 1926. Serial No. 154,870. 2 Claims. (Cl. 65—57.)



1. In a condiment holder having separate reservoirs a flat cover member closing said reservoirs, said cover member being provided with a first group of perforations for one reservoir and a second group of perforations for a second reservoir, a flat bar provided with projection arranged to register with all of said perforations normally to close the same, and means whereby the bar may be tilted to withdraw the projections from one group of perforations while maintaining certain projections in said other group of perforations.

1,676,636. SOAKING MACHINE EMPLOYED IN MAKING PAPER. CHARLES T. CROCKER, Fitchburg, Mass. Filed Nov. 30, 1927. Serial No. 236,700. 5 Claims. (Cl. 92—3.)



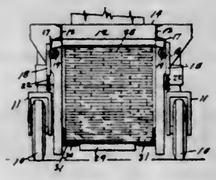
1. In a soaking machine, a tank having an imperforate bottom, to hold a chemical liquor; a series of duckers to completely immerse, in said liquor, paper stock at the receiving end of the tank, and move the stock along the bottom; other duckers, to move said stock further along said bottom, said duckers being formed to allow the liquor in the tank to find and keep its own level; means to rotate all of said duckers.

1,676,637. METHOD FOR PRODUCING DESIGNS UPON STONES. GEORGE DI BONA and TIMOTHY JELLOW, Quincy, Mass. Filed Feb. 16, 1925. Serial No. 9,459. 2 Claims. (Cl. 41—24.)



1. The method of forming a design in stone, which consists in first arranging individual preformed members having raised outlines of portions of the design to form the latter, placing a thin sheet over the members thus assembled, transferring by rubbing the outlines of the design to said sheet, then affixing the sheet to the stone, and cutting the design in the stone.

1,676,638. LOAD BINDER FOR LUMBER CARRIERS. JOSEPH S. EASTHAM, Portland, Oreg., assignor to Willamette Iron and Steel Works, Portland, Oreg. Filed Oct. 25, 1926. Serial No. 143,982. 3 Claims. (Cl. 280—179.)

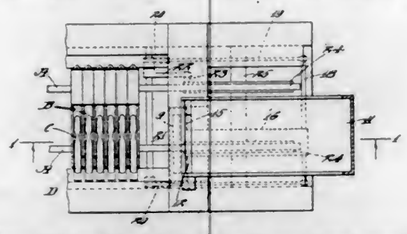


1. A load binder for lumber carriers which are adapted to straddle a pile of lumber and raise same up bodily consisting of a cable mounted transversely across the arch of said carrier having yieldable supports for the ends of said cable.

1,676,639. HANDLE-FEEDING MECHANISM FOR BRUSH MACHINES. WILLIAM S. ELLIOT and GOTTFRID EMIL LINDGREN, Northampton, Mass., assignors to Pro-phy-lac-tic Brush Company, Northampton, Mass., a Corporation of Massachusetts. Filed Feb. 24, 1925. Serial No. 11,091. 2 Claims. (Cl. 198—35.)

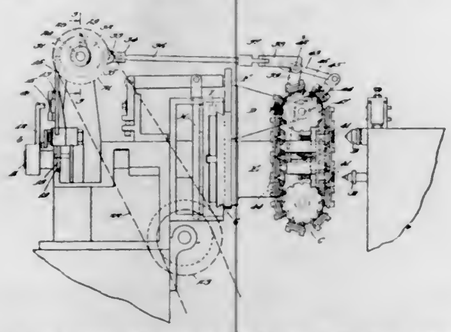
1. The feeding mechanism for a machine of the character described comprising a continuously moving endless

chain having a series of cells to receive the articles to be fed, a stack for said articles, a rest for the articles in the stack interposed between the stack and the endless chain and having a slot therein out of line with the stack but in registration with one of said cells, and a slide



between the stack and the rest, said slide being moved in time with the conveyor to register in one position with the stack and in another position with the slot in the rest, the articles in the stack in said second position being supported on the slide.

1,676,640. SHIFTING DEVICE FOR POSITIONING MECHANISM FOR BRUSH MACHINES. WILLIAM S. ELLIOT, Northampton, Mass., assignor to Pro-phy-lac-tic Brush Company, Northampton, Mass., a Corporation of Massachusetts. Filed Feb. 24, 1925. Serial No. 11,096. 6 Claims. (Cl. 300—11.)



1. In a brush machine having a travelling blank carrier, in combination, a shaft, mechanism for driving the carrier, a constantly rotating member, a clutch connecting said rotating member and said driving mechanism, and means on the shaft for controlling the clutch to connect the rotating member and the driving mechanism.

1,676,641. INTERCHANGEABLE PANORAMIC-PICTURE BLOCKS. GUSTAVUS W. ESCHENBACH, Los Angeles, Calif. Filed May 20, 1927. Serial No. 192,974. 2 Claims. (Cl. 273—157.)

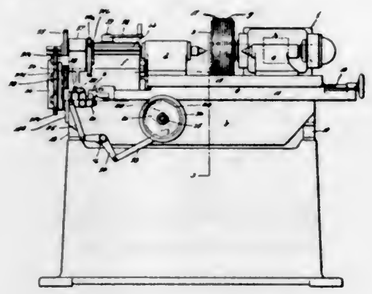


1. A series of panoramic pictures adapted to be placed adjacent each other in succession and to match with each other when pictures of the series are interchanged in position relative to each other, and symbols near the matching edges of the pictures indicating which edges of the pictures may be matched by bringing together edges of pictures having like symbols.

1,676,642. PROCESS FOR COMPOUNDING INGREDIENTS OF A CHEMICAL PAINT REMOVER. OTTO L. FLUEGEL, Birmingham, Mich. Filed Jan. 24, 1925. Serial No. 4,445. 2 Claims. (Cl. 87—5.)

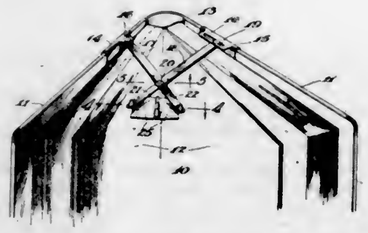
1. A process for preparing a paint remover compound, by mixing tri-sodium phosphate and oxalic acid in water, making a thin cream thereof, also mixing hydrate of lime in water, making a thin cream thereof, then mixing the two compositions together, and adding thereto a thick starch cream made by adding cold water to the starch, at the same time rapidly agitating the combining compositions to prevent formation of starch globules therein, then prepare a mixture of caustic alkali and water and drop same quickly into the above resulting compound while the caustic mixture is boiling, stirring the whole mixture rapidly until the composition ceases boiling.

1,676,643. GRINDING MACHINE. BENGT M. W. HANSON, Hartford, Conn.; Einar A. Hanson and Clarence E. Whitney executors of said Bengt M. W. Hanson, deceased. Filed Feb. 9, 1924. Serial No. 691,643. 35 Claims. (Cl. 51—50.)



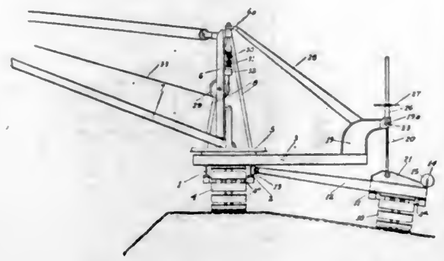
1. In a thread grinding machine, a grinding wheel having a plurality of circumferential grinding edges or serrations, means for rotating said wheel, a work holder including a work spindle and mounted for movement axially of the spindle, a rotary shaft; a cam thereon connected to said work holder and having a cam portion for moving said holder on its operative stroke in accordance with the pitch of the thread operated upon and a cam portion for returning said work holder on its inoperative stroke; means for rotating said work spindle, and gearing between said work spindle and shaft whereby said cam makes one revolution in moving said work holder on its operative and inoperative strokes while said work spindle is rotating more than one revolution.

1,676,644. BOOKMARKER. AUGUST FALKEN, Jamaica, N. Y. Filed Feb. 25, 1927. Serial No. 170,975. 7 Claims. (Cl. 116—119.)



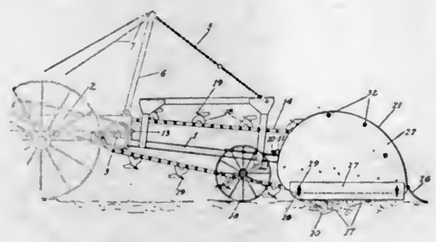
6. In a device of the class described, the combination of a book having swingingly mounted covers and pages located between the same, a marker, and connections between said marker and the covers adapted to cause the marker to be inserted between the pages upon movement of the covers toward one another in closing movement of the book, and to withdraw said marker from between the pages when the covers are spread apart to open the book.

1,676,645. DREDGER-FRAME CONSTRUCTION. JOHN E. FUNK, Stockton, Calif. Filed Jan. 24, 1927. Serial No. 163,251. 4 Claims. (Cl. 212—59.)



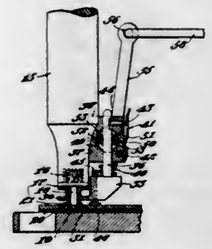
1. A frame structure for a dredger including a main frame comprising transversely spaced beams, and a transverse beam connecting said beams and extending some distance to one side of the same; a wing frame parallel to the main frame disposed adjacent and under the outer end of the transverse beam, means pivotally connecting the wing frame to the adjacent main-frame beam, means between the outer end of the transverse beam and the wing frame for vertically adjusting the beam relative to the wing frame, and ground bearing means mounted on said frames.

1,676,646. SUPPORTING AND INCLOSING STRUCTURE FOR GROUND-WORKING IMPLEMENTS. JOHN E. FUNK, Stockton, Calif., assignor to Funk Soil Pulverizer Company, Stockton, Calif., a Corporation. Original application filed Sept. 27, 1926, Serial No. 137,884. Divided and this application filed Apr. 11, 1927. Serial No. 182,601. 6 Claims. (Cl. 97—40.)



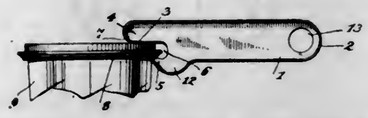
1. A ground working implement including a boom structure, means for supporting and holding the rear end of the boom at different distances from the ground, a rotary ground working unit mounted on the rear end of the boom, a hood having side members mounted in fixed connection with the unit and inclosing the upper portion of the same, and vertically adjustable plates along the sides of the hood at their lower ends.

1,676,647. DEVICE FOR SETTING INVISIBLE EYELETS. FREDERICK S. GLINES, Lynn, Mass., assignor to Peerless Machinery Company, Boston, Mass., a Corporation of Massachusetts. Refiled for abandoned application Serial No. 394,090, filed July 6, 1920, and in Canada June 10, 1924. This application filed June 2, 1925. Serial No. 34,361. 26 Claims. (Cl. 218—14.1.)



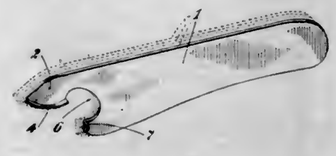
1. A device for setting blind or invisible eyelets comprising a projecting setting shoulder, adjustable means above said setting shoulder, automatic means for varying the distance between said setting shoulder and the lower surface of said adjustable means, and means for locking said adjustable means in adjusted position prior to the clenching of the eyelet.

1,676,648. UNCAPPING TOOL. JAMES S. HARDIMAN, Long Island City, N. Y., assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y., a Corporation of New York. Filed July 7, 1925. Serial No. 41,939. 7 Claims. (Cl. 65—46.)



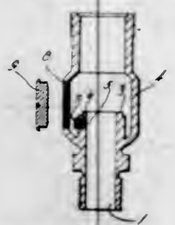
1. In a tool of the class described; an operating end comprising a flat edgewise disposed fulcrum member provided with a rounded nose; a reenforcing flange integral with said fulcrum member and extending at right angles therefrom, said flange extending along the cap engaging edge of the fulcrum member and round the rounded nose thereof; and a cap engaging jaw beneath said fulcrum.

1,676,649. CAP OPENER. ABRAHAM PODEL, Long Island City, N. Y., assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y., a Corporation of New York. Filed Nov. 17, 1925. Serial No. 69,565. 4 Claims. (Cl. 65—46.)



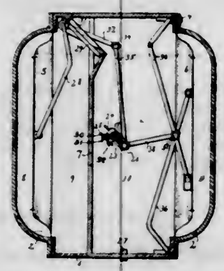
1. A cap opener comprising a substantially flat body portion provided with an integral forwardly extending fulcrum portion, a curved fulcrum shoe on the lower part of the fulcrum portion, a cap engaging hook disposed beneath said fulcrum portion, and a projecting lip on the end of said hook, said shoe and said lip both extending laterally on the same side of said body portion.

1,676,650. TEMPERATURE-CONTROLLED RELIEF VALVE. FRANKLIN T. HOLMES, Springfield, Mass., assignor to Tryco Products, Inc., Westfield, Mass., a Corporation of Massachusetts. Filed May 2, 1927. Serial No. 188,241. 6 Claims. (Cl. 137—53.)



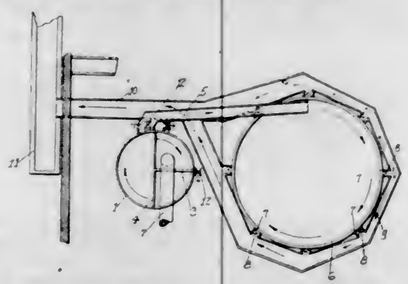
1. A safety valve having a casing wholly enclosing a valve seat, a by-pass around said seat, a fusible plug in said by-pass, a removable section of said casing adjacent said plug and a series of spare plugs carried in the body of said section.

1,676,651. GAS METER. ARNO R. HUETTIG, Stratford, Conn., assignor to American Meter Company, Incorporated, New York, N. Y., a Corporation of Delaware. Filed May 29, 1924. Serial No. 716,694. 3 Claims. (Cl. 73—1.)



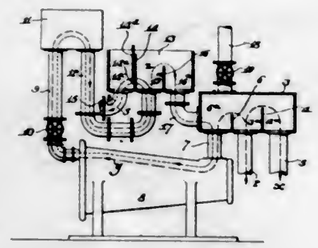
1. A meter comprising a body member having a partition, a diaphragm at one side of said partition, a crank shaft at the other side of said partition, a bell crank lever operatively connecting said diaphragm with said crank shaft, one arm of said lever being located at one side of said partition and the other arm of said lever being located at the opposite side thereof.

1,676,652. APPARATUS AND PROCESS FOR CLEANING PAPER STOCK. CHARLES L. KELLER, Glendale, Ohio, assignor to The Richardson Company, Lockland, Ohio, a Corporation of Ohio. Filed May 11, 1926. Serial No. 108,381. 7 Claims. (Cl. 92—28.)



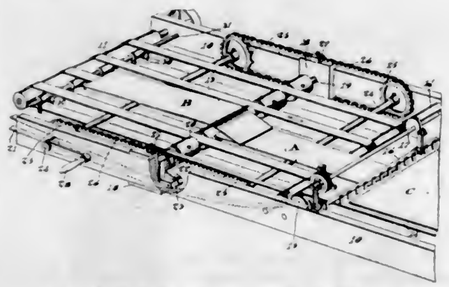
1. Apparatus for cleaning pulped paper stock consisting of a sedimentation tank and a skimming tank arranged in series, said sedimentation tank having a baffle therein over which the liquor flowing through said tank must pass, and said skimming tank having a conduit extended from the top of the liquor level in said sedimentation tank, said conduit extending tangentially through the side of said skimming tank.

1,676,653. METHOD AND MEANS FOR PAPER-STOCK REFINING. HARRY LIEBECK, Swarthmore, Pa., assignor to Scott Paper Company, a Corporation of Pennsylvania. Filed Sept. 22, 1926. Serial No. 136,926. 4 Claims. (Cl. 92—27.)



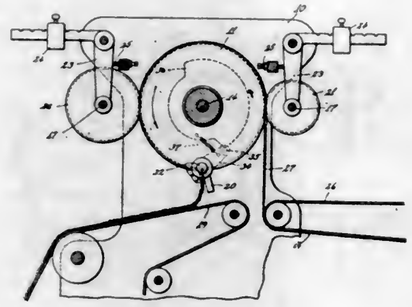
1. The combination with a paper stock refining engine having an inlet extending above the level of the engine so as to keep a solid body of fluid paper stock entering the engine to the exclusion of free air, a regulating box arranged above the engine having an inlet and two outlets, the inlet receiving paper stock from the engine and the outlets respectively leading to the next stage in a paper making process and communicating with the inlet to the engine, a dam arranged in the box between the inlet of the box and the outlet therefrom leading to the inlet of the engine over which refined fluid paper stock is returned to the engine for recirculation, an adjustable orificed partition for the regulating box intermediate of the inlet thereto and the outlet leading to the next stage of the paper making process for regulating the quantity of paper stock to be returned for re-treatment in the engine, and a static head arranged between the discharge from the engine and the inlet to the regulating box whose normal height extends above the level of the dam in the regulating box.

1,676,654. APPARATUS FOR CONTROLLING SHEETS. HARMON E. LINDBLADH, Brookline, Mass., assignor to The Lindbladh Corporation, a Corporation of Massachusetts. Filed July 5, 1921. Serial No. 482,587. 32 Claims. (Cl. 271—46.)



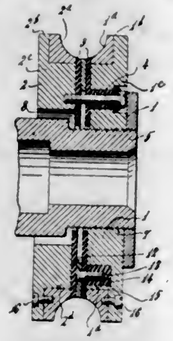
1. In an apparatus for controlling sheets, means for advancing successive sheets, and means associated with the advancing means for elevating the forward extremity of each sheet upon said advancing means above the preceding sheet, said elevating means thereafter remaining in contact with the sheets throughout their lengths.

1,676,655. PAPER-MAKING MACHINE. WILLIAM A. LORENZ, West Hartford, Conn., assignor to The Otaka Fabric Company, West Hartford, Conn., a Corporation of Connecticut. Filed Feb. 2, 1927. Serial No. 165,432. 5 Claims. (Cl. 92—69.)



1. In a paper crinkling machine and in combination, a cylinder, a doctor blade supported for angular movement from one position to another, said blade in one position being adapted to crinkle the paper and strip the same from said cylinder, said doctor blade in its other position being adapted to strip the paper from said cylinder without crinkling it and means for moving said doctor blade at intervals from one position to another whereby said paper is crinkled at intervals.

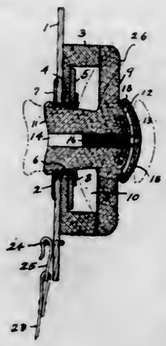
1,676,656. RESISTANCE WELDING ELECTRODE. GEORGE A. LUTZ, Cranford, N. J., assignor to American Circular Loom Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 21, 1926. Serial No. 143,105. 2 Claims. (Cl. 219—6.)



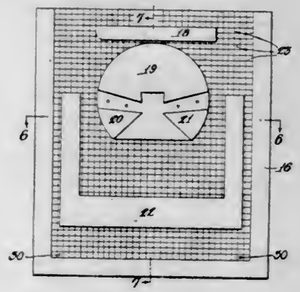
2. Electrodes for welding comprising a pair of annular metallic body portions secured together in spaced relation and having peripheral contact portions of higher heat resisting metal than the body portions, and an annular member located in the space between said body portions and insulated therefrom, said member being secured to one of said body portions and having its periphery in position to bear against the edge of stock being welded to prevent protrusion of said stock.

1,676,657. TRUSS. AUGUST F. LUZZI, Houston, Tex., assignor to J. B. Akers, Breckenridge, Tex. Filed Sept. 28, 1926. Serial No. 138,174. 3 Claims. (Cl. 128—96.)

1. A truss including a flexible supporting body having a bearing, an annular support carried by said body and surrounding said bearing, a flexible disc whose margin rests on said support thus forming an annular enclosed chamber, a projection carried by said disc and working through said bearing and forming means to retain the disc in place and a retaining pad carried by said disc formed of rigid material and whose outer face is convex, said pad being adjustable relative to said disc.



1,676,658. PLATE AND PREPARATION OF PLATE FOR ELECTROTYPING. WILLIAM J. MAGINNIS, Philadelphia, Pa., assignor to Royal Electrotype Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 7, 1924. Serial No. 748,434. 5 Claims. (Cl. 22—204.)



1. A mould having a body section carrying indices balanced on opposite sides of the center to assist in accurately setting plates therein, having a top adapted to mould bearers the height of original half tone plates about the plates and open along an edge for the receipt of molten metal.

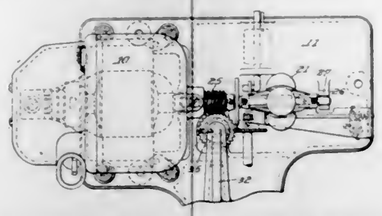
1,676,659. MUSICAL TOY OR INSTRUMENT. MICHAEL J. MCINTYRE, Eden Center, N. Y. Retiled for abandoned application Serial No. 707,518, filed Apr. 18, 1924. This application filed Mar. 2, 1927. Serial No. 172,029. 4 Claims. (Cl. 46—46.)



1. In a device of the character described, including a tubular body having inlet and outlet ends and forming the neck of an instrument, a horn reed mounted adjacent to said outlet end, a side opening in said body, a diaphragm over said side opening, a second side opening in said body, air passage means on the side of said body

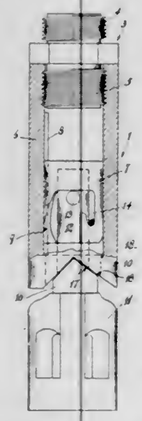
adjacent said inlet end to form with said second side opening a whistle, an instrument head attached to the outlet end of said neck and strings aligned over said head and neck, whereby said horn, diaphragm, whistle or strings may be operated independently of the others.

1,676,660. DRIVING MECHANISM FOR TALKING MACHINES. WILLIAM W. MOYER, Camden, N. J., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed Apr. 26, 1918, Serial No. 230,863. Renewed June 18, 1923. 10 Claims. (Cl. 74—36.)



1. An operating mechanism for talking machines including a motor having a rotatable shaft, a pair of supporting bearings therefor, one of which is intermediate the ends of said shaft, and a governor mounted on the free end of said shaft and entirely supported by said shaft, in combination with a driving gear secured to said shaft, a turntable spindle and a gear on said spindle adapted to mesh with said driving gear and to be driven thereby.

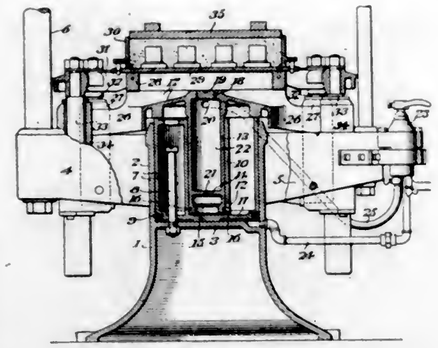
1,676,661. STANDING VALVE PULLER. KARL P. NEILSEN, Long Beach, Calif. Filed Sept. 15, 1926. Serial No. 135,523. 6 Claims. (Cl. 103—180.)



1. In a pump comprising a standing valve and a plunger, a post rising from said standing valve, pins extending from said post, a sleeve having a bayonet slot therein, means slidably mounting said sleeve on the plunger and means on said standing valve co-acting with said mounting means, whereby, said pins are registered with said slot.

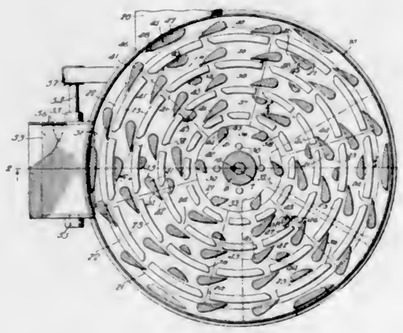
1,676,662. JOLT MECHANISM FOR MOLDING MACHINES. WILLIAM HENRY NICHOLLS, Brooklyn, N. Y. Filed June 10, 1926. Serial No. 114,993. 9 Claims. (Cl. 22—45.)

1. In a molding machine, a jolting mechanism, comprising a vertically disposed cylinder; a plunger in said cylinder; a mold flask support adapted to be raised and lowered by the reciprocation of the plunger; a compressed air reservoir located closely adjacent to the cylinder and provided with a charging port to receive air from a compressor; a constantly open admission port smaller than the charging port connecting the reservoir with the cylinder below the plunger therein; an exhaust port



larger than the admission port leading from the cylinder adjacent the lower end thereof; and means to automatically close the exhaust port when the plunger moves to its lowermost position and automatically open it when the plunger rises to a certain point.

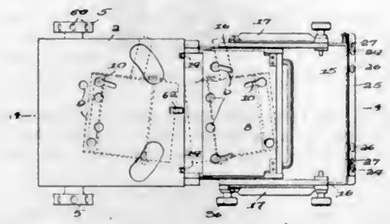
1,676,663. SAND-MULLING DEVICE. WILLIAM H. NICHOLLS, Brooklyn, N. Y. Filed Jan. 14, 1927. Serial No. 161,145. 17 Claims. (Cl. 83—11.)



1. A sand muller comprising a substantially horizontal fixed support; a plurality of lower plates removably mounted upon the upper face of said support and arranged around the center of it; upstanding wall-forming projections rigidly carried by said plates and defining a plurality of circular sand-receiving channels around the center of the support, said projections forming the side walls of the channels and each wall being formed with a plurality of circumferentially spaced openings to place the channels in transverse communication; a rotor member spaced above the fixed support and mounted to rotate about a vertical axis located at the center of the support; a plurality of upper plates removably mounted upon said rotor; sand-mulling-and-carrying projections rigidly carried by said upper plates and depending from them, a plurality of said mulling projections extending downwardly into each channel at points spaced therealong and each projection being formed with an upright mulling face opposed to and spaced from the outer

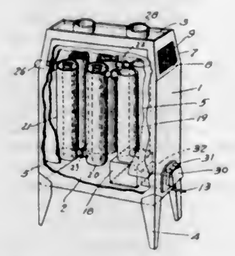
channel side wall and making an acute angle with it, the angles of all the faces opening in one direction around the channels and the mulling projections being tapered in said direction and formed with upright leading edges disposed adjacent the inner walls of the channels; baffle projections rigidly carried by said upper plates, depending into the channels adjacent the outer walls thereof, tapering in the same direction as the mulling projections and formed with upright leading edges adjacent the outer channel walls, said baffle projections being adapted to intermittently close the gaps in the channel walls as the rotor is rotated and to direct sand back into the paths of the mulling projections; and means to deliver sand to the innermost channel, the muller being adapted to discharge sand from the outermost channel.

1,676,664. APPARATUS FOR PROMOTING FLEXIBILITY OF THE JOINTS OF THE HANDS. HARRY OSTROVSKY, Bryn Athyn, Pa. Filed May 17, 1927. Serial No. 192,112. 16 Claims. (Cl. 272—67.)



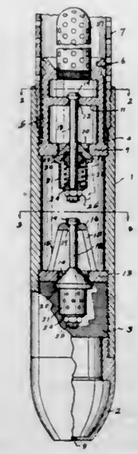
1. Apparatus for promoting flexibility of the joints of the hands, comprising a main body, a slidable plate mounted thereon, means for imparting movement thereto, a second plate adjacent said slidable plate, finger gripping members adapted to be locked in place on both of said plates, whereby when said slidable plate is oscillated on said body, the fingers in said gripping members will be stretched.

1,676,665. GAS FURNACE. EL ROY L. PAYNE, Beverly Hills, Calif., assignor to Payne Furnace and Supply Company, Beverly Hills, Calif., a Corporation of California. Filed June 3, 1926. Serial No. 113,877. 9 Claims. (Cl. 126—116.)



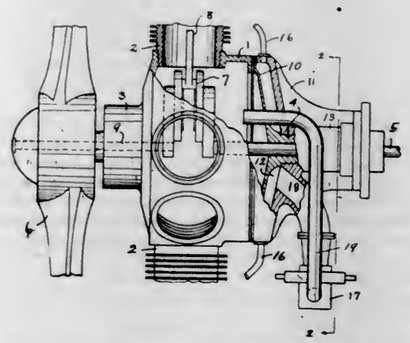
9. A gas furnace comprising a furnace casing, a gas burner near the bottom of said casing, a combustion chamber within said casing and extending upwardly from said burner, a plurality of heating elements within said casing, and means connecting all of said heating elements in parallel to the upper portion of said combustion chamber; each of said heating elements comprising a series of vertical gas conducting flues, gas passage means connecting all the flues of each element in series alternately at the bottom and top thereof, and a single air passage tube extending centrally within each of said gas conducting flues.

1,676,666. VALVE MECHANISM. FELIX L. PIVOTO, Beaumont, Tex. Filed Aug. 18, 1927. Serial No. 213,802. 11 Claims. (Cl. 251—144.)



1. A valve mechanism including a valve seat having an opening, a downwardly opening valve controlling said opening, a bearing member above said seat having a bearing therein, a stem supporting the valve and working through and having a swiveling connection with said bearing, a yieldable member associated with the stem and normally holding said valve in closed position, a screen disposed above the seat and provided to exclude foreign matter therefrom.

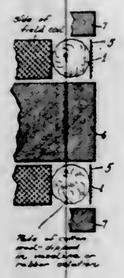
1,676,667. AIRCRAFT MOTOR. CHARLES E. QUICK, Houston, Tex. Filed Nov. 23, 1925. Serial No. 70,821. 4 Claims. (Cl. 123—119.)



1. An internal combustion motor including a crank case having a closed crank chamber and an intake chamber at the rear end thereof, an intake manifold entering the intake chamber, a crank shaft rotatably mounted in the crank case and having a crank in said crank chamber, said shaft having an air inlet duct lead-

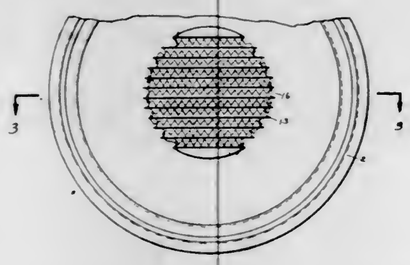
ing from its forward end and terminating in said crank chamber and forming the only air inlet into said crank chamber, a carbureter associated with said intake manifold, an air outlet line leading from the crank chamber and connected into the carbureter.

1,676,668. TELEPHONE TRANSMITTER. HENRY JOSEPH ROUND, London, England, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Mar. 3, 1925, Serial No. 12,912, and in Great Britain Mar. 3, 1924. 3 Claims. (Cl. 179—121.)



1. In a telephone apparatus of the magneto-phone type, an electro-magnet having an annular air gap, a flat aperiodic annular diaphragm supported therein, and a flat spiral coil secured to said diaphragm.

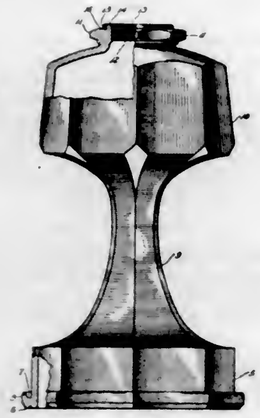
1,676,669. ELECTRIC COOKING AND HEATING DEVICE. OSCAR SCHAFFLER, Detroit, Mich. Filed Aug. 3, 1927. Serial No. 210,257. 3 Claims. (Cl. 219—37.)



1. A convertible heating device adapted for use as both a heater and cooker, comprising a semi-spherical metal casing having suitable supporting legs attached thereto for holding said casing in a horizontal position, two sets of electrical terminal plugs mounted within the bottom walls of said casing and completely insulated therefrom, an electric heating unit slidably mounted on one set of the terminal plugs for completing an electric circuit through all of the terminal plugs, and means for connecting said terminal plugs and heating unit within an electric circuit.

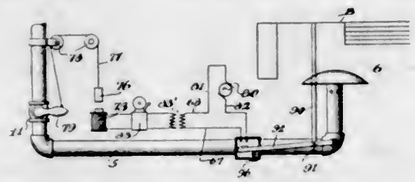
1,676,670. LAMP. CHARLES E. SCHMUNK, Crafton, Pa. Filed Dec. 6, 1921. Serial No. 520,277. 3 Claims. (Cl. 67—81.)

1. A glass lamp having a container, a neck portion therefor, said neck portion having a burner receiving opening therethrough, a collar in the burner opening, a flange on the upper end of the collar, an inwardly curled edge on the flange, and an integral bead on the neck



extending into the curled flange and interlocking therewith to hold the collar in the burner opening, the curled edge of the collar being of less depth than the collar.

1,676,671. ELECTRIC CONTROL DEVICE. GERHARDT F. SCHWARTZ, St. Louis, Mo. Original application filed Feb. 25, 1921, Serial No. 447,664. Divided and this application filed Oct. 28, 1922. Serial No. 597,567. 1 Claim. (Cl. 67—116.)

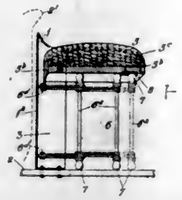


In a safety control for gas appliances, the combination of a pilot burner, a valve controlling the supply of gas to the burner, a thermostat disposed so as to act in one direction in the presence of the flame on the pilot burner and to react in the absence of such flame, a solenoid for closing said valve, the core of said solenoid connected by a flexible element trained over pulleys to a handle of the valve, an electric circuit including said solenoid and having normally open contacts therein, means for bridging said contacts, said contacts and bridging means being located away from the zone of the flame and its heat, said thermostat being disposed relatively to said last named means, whereby to cause closing of the contacts upon the extinguishing of the pilot flame.

1,676,672. SEAT CONSTRUCTION AND SEAT ATTACHMENT. EDWARD J. STAHL, Cleveland, Ohio, assignor to The Baker-Raulang Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 18, 1924. Serial No. 686,983. 5 Claims. (Cl. 155—12.)

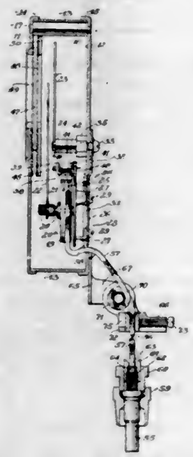
1. In a seat construction, the combination of a frame adapted to be supported on the floor, a seat pivoted to the upper end of said frame and swingable downwardly into a position in front of said frame, and means for supporting said seat in a horizontal position, said means

comprising superposed sets of links pivoted to said frame in spaced relation and rods engaging the floor and forming pivotal connections between the said sets of links to



permit the latter to be expanded laterally away from said frame into position to be engaged by said seat when swung to a horizontal position.

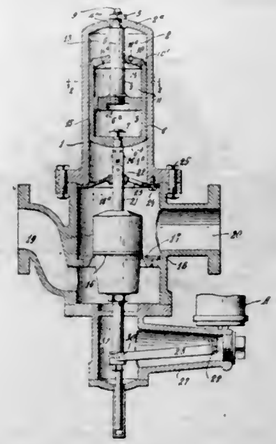
1,676,673. GAUGING INSTRUMENT. FREDERICK W. STALKER, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed Mar. 28, 1925. Serial No. 18,956. 4 Claims. (Cl. 73—52.)



1. In a gauging instrument, the combination of a casing having an opening through its wall, indicating mechanism disposed within the casing, a holder for said mechanism, a support for the holder, connected therewith through said opening and rotatably disposed upon the outer wall of the casing, an operating extension upon the support arranged to cooperate with the casing to indicate different positions of adjustment of said mechanism and means for securing the support in the desired position upon the casing.

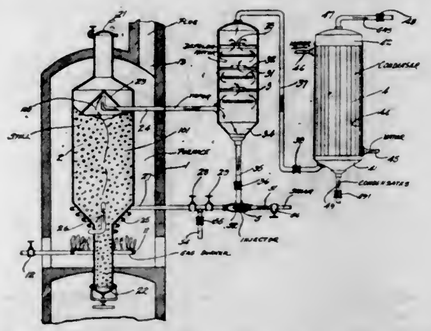
1,676,674. DASHPOT. GAMALIEL C. ST. JOHN, Greenwich, Conn. Filed Dec. 22, 1926. Serial No. 156,436. 5 Claims. (Cl. 188—96.)

1. A dash-pot comprising a cylinder, a hollow member therein having a closed lower end to contain fluid, a head within said member normally located between the ends of its bore providing spaces within the member on opposite sides of said head, one of said spaces being adapted to contain fluid between the closed lower end of said member and said head, means providing com-



munication between said spaces for the flow of said fluid between said spaces and means to admit fluid within the cylinder on opposite sides of the member.

1,676,675. PROCESS OF RECOVERING LIGHT HYDROCARBONS FROM CARBONACEOUS MATERIAL. MILON J. TRUMBLE, Los Angeles, Calif. Original application filed July 31, 1922, Serial No. 578,736. Divided and this application filed Apr. 7, 1924. Serial No. 704,678. 2 Claims. (Cl. 202—8.)

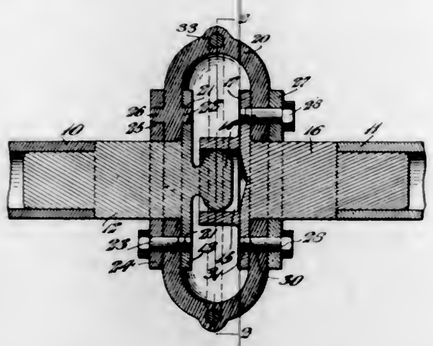


1. A process for the distillation of coal which comprises treating it in a closed retort with superheated steam under a pressure of not less than five pounds, leading off the steam and volatile products, condensing desired fractions thereof separately, and collecting the remaining gas for use as desired.

1,676,676. UNIVERSAL JOINT. ALFRED WEILAND, Neshanic, N. J., assignor to Pneumatic Appliances Corporation, New York, N. Y., a Corporation of Delaware. Filed May 5, 1926. Serial No. 106,869. 1 Claim. (Cl. 64—96.)

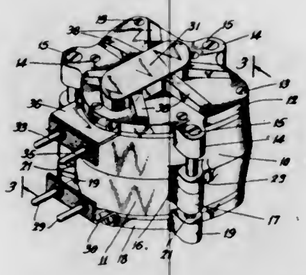
A universal joint comprising a part connected to a driving shaft, a part connected to a driven shaft, one of said parts terminating in a ball-like end, and the other of said parts terminating in a bearing bore to receive said

ball-like end, an annular tubular disc-shaped casing connecting said parts for yielding relative movement, flanges respectively carried by said parts and seating respectively against the inner walls of said casing, said flanges having holes arranged therein, lugs molded to project in-



ternally of said casing for interfitting with certain of said flange holes, lugs molded exteriorly of said casing, clamping plates for opposite sides respectively of said casing and having holes to receive said exterior lugs, and clamping devices for holding said flanges, casing and plates clamped together.

1,676,677. DENTAL FLASK. MEYER L. AXELROD, Cleveland, Ohio, assignor to Ohio Chemical & Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 28, 1926. Serial No. 118,941. 1 Claim. (Cl. 219—35.)



A self-heating dental flask composed of separable upper and lower sections having hollow upper and lower walls, electrical heating elements housed in the top of the upper section and the bottom of the lower section, means for connecting the heating elements with a source of current, and a thermostat also housed in one of the hollow walls and connected with the heating element therein to open and close the circuit thereof as the temperature rises and falls relatively to a predetermined value.

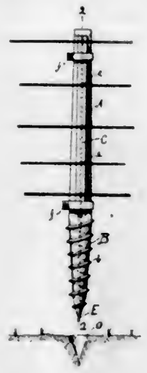
1,676,678. LEVEL-WINDING FISHING REEL. RAYMOND B. BENNETT, Montague City, Mass., assignor to Montague City Rod Company, Montague City, Mass., a Corporation of Massachusetts. Filed June 20, 1927. Serial No. 199,994. 3 Claims. (Cl. 242—84.4.)

1. In a level winding fishing reel, level winding means comprising an endless screw shaft, a split sheet metal bearing sleeve embracing said shaft, integral extensions from said sleeve forming a pocket, a nut in said pocket for connecting the sleeve to the screw thread, a slotted line guide arranged to extend radially of said shaft and formed as an integral extension from one of said first



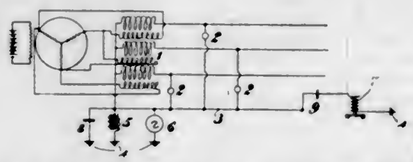
named extensions but at an angle thereto, all constructed for a convenient manufacture of minimum weight to decrease inertia of movement on the endless screw shaft.

1,676,679. CONCRETE FENCE POST. WILSON BENSINGER, Lodi, Ohio. Filed Aug. 27, 1923. Serial No. 659,542. 1 Claim. (Cl. 72—82.)



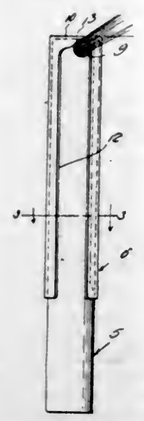
A concrete post comprising in combination and above soil portion, a subsoil portion tapering to a point at its lower end, a spiral thread on said tapered surface, and a metal rod embedded at the longitudinal center of both portions, said rod projecting beyond the spiral thread terminus to penetrate the soil in advance thereof, substantially as set forth.

1,676,680. SYSTEM FOR THE ELECTRIC TRANSMISSION OF SIGNALS ALONG LINES FOR POWER DISTRIBUTION. JOSEPH BETHENOD, Paris, France. Filed Jan. 4, 1923, Serial No. 610,735, and in France Feb. 2, 1922. 3 Claims. (Cl. 177—352.)



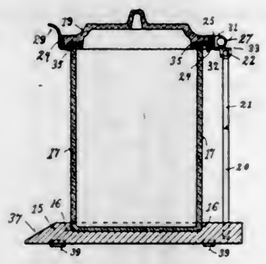
1. In a system for signaling over transmission systems having an insulated neutral conductor, means for connecting a source of relatively high frequency current between said neutral conductor and ground, means between said neutral conductor and ground affording a low impedance path for currents of power frequency but a high impedance path for currents of signaling frequency, and signal receiving means responsive to high frequency currents connected between the neutral conductor and ground.

1,676,681. METAL HAIR TUBE. DAVID J. BOLDUC, San Francisco, Calif. Filed Feb. 23, 1927. Serial No. 170,360. 3 Claims. (Cl. 132—36.2.)



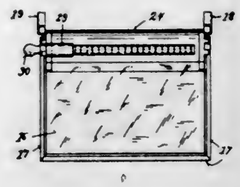
1. As a new product of manufacture, a hair steaming tube of the class described comprising a pair of telescopically connecting relatively rotatable sections, having entrance slots adapted to be brought into registry, after which the sections may be turned upon each other for closing the openings and completing the steaming process.

1,676,682. DISPLAY AND VENDING APPARATUS. EDWARD BRUNHOFF, Cincinnati, Ohio. Filed Apr. 30, 1925. Serial No. 27,030. 4 Claims. (Cl. 215—76.)



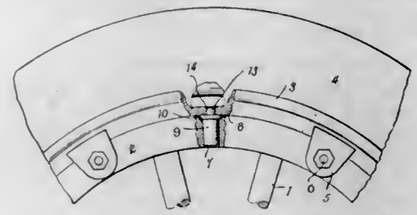
1. In combination with a display and vending apparatus having a base member adapted to be seated upon a show-case and provided upon its upper face with means to engage and hold an original container in a predetermined position relative to said base and an original container mounted in position on said base, a pair of resilient hinge rods projecting upwardly from said base to the upper portion of said original container, said hinge rods having their upper free ends turned away from each other and at substantially right angles to the vertical position of said rods, and a lid having hinged relation to the upper ends of said hinge rods with a limited hinge movement and guided by said hinge rods from an open position to a position to close the open mouth of said original container, said hinge rods being adapted to have their upper free ends sprung toward each other and out of their normal position to be operatively engaged in hinged relation with or disengaged from said lid.

1,676,683. HUMIDOR DISPLAY LID. EDWARD BRUNHOFF, Wyoming, Ohio. Filed Jan. 29, 1927. Serial No. 164,624. 3 Claims. (Cl. 131—30.)



3. A humidor display lid comprising a lid member to be detachably applied to the open mouth of a container to protect the contents of the container and to display the contents of the container through said lid, means to detachably attach said lid to the original container lid so as to utilize the hinge connection of the original container lid also as a hinge connection between the container and the display lid, a humidor chamber carried by said display lid and in communication with the interior of said container, and a humidor mounted in said humidor chamber and axially thereof with an intervening air circulating channel between the exterior of said humidor and the inner face of the wall of said humidor chamber to provide for an air circulation upwardly from said container to said humidor chamber and encircling said humidor and thence back and downwardly to said container, and means to detachably and replaceably support said humidor substantially axially of said humidor chamber and operable from the exterior of said humidor chamber.

1,676,684. RIM LOCK. PHILANDER R. BUNDY, Indianapolis, Ind. Filed May 24, 1927. Serial No. 193,901. 3 Claims. (Cl. 70—90.)

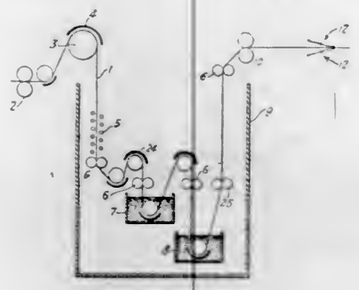


1. A rim lock comprising a tubular body adapted to be secured in a wheel felly and having a threaded bore, a bolt having threaded engagement with the bore of the body, and a guard ring also having threaded engagement with the bore of the body whereby it may be turned home against the bolt.

1,676,685. APPARATUS FOR THE ANNEALING OF METALS IN CONTINUOUS COLD ROLLING. LEON CAMMEN, New York, N. Y. Filed Apr. 19, 1928. Serial No. 271,366. 6 Claims. (Cl. 80—2.)

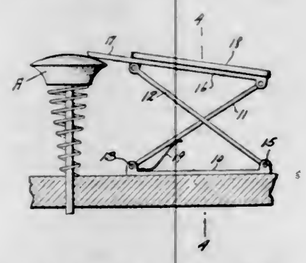
1. In an apparatus for continuous cold rolling of metals, two pairs of working rolls, adapted for the passage therebetween of a body of metal in the process of

being rolled thereby, means for heating said body of metal while travelling between said two pairs of working rolls said means consisting of a coil surrounding in part



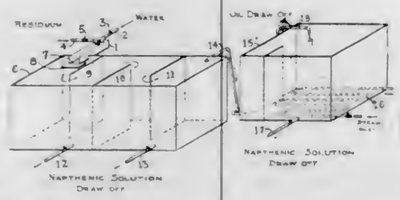
said body of metal and carrying a high-frequency alternating current, and means for cooling said body of metal while it is travelling between said two pairs of rolls.

1,676,686. PEDAL-ACTUATING DEVICE. HAROLD CHRISTENSON, Savannah, Ga. Filed May 10, 1927. Serial No. 190,284. 6 Claims. (Cl. 74—81.)



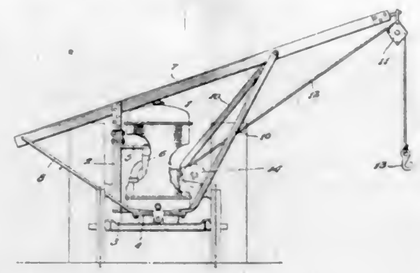
1. A pedal actuating device including two crossed members hingedly supported at their lower ends, a plate constituting a foot rest and hingedly connected to the upper ends of the crossed members whereby the upper plate may be tilted into depressive engagement with a pedal but cannot be bodily depressed.

1,676,687. RECLAIMING DISTILLATION RESIDUES. STEWART P. COLEMAN, Cambridge, Mass., and WAYNE S. HUGHES, Goose Creek, Tex., assignors to Standard Oil Development Company, a Corporation of Delaware. Filed Feb. 7, 1924. Serial No. 691,162. 4 Claims. (Cl. 260—108.)



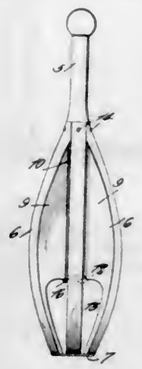
1. The process of reclaiming naphthenic distillation residues, which comprises discharging the hot residue onto the surface of flowing water, then allowing stratification into layers to occur, withdrawing the water and dissolved naphthenate from the bottom layer, subjecting the residual material to further stratification, withdrawing the oil from the top and withdrawing the water containing metal naphthenates from the bottom layer.

1,676,688. BOOM ATTACHMENT FOR TRACTORS. JAMES D. CUMMINGS, Houston, Tex., assignor of one-half to Carl J. Managuh, Houston, Tex. Filed July 24, 1926. Serial No. 124,712. 1 Claim. (Cl. 189—16.)



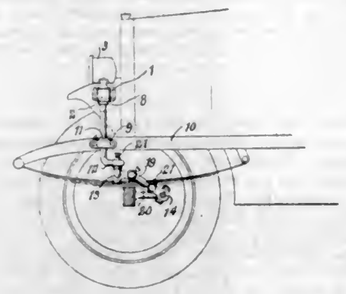
A derrick attachment for tractors comprising a boom to extend transversely across a tractor above the same with its end portions projecting from opposite sides of the tractor, a cable guide at the forward end of said boom, a standard disposed vertically below said boom in spaced relation to the rear end thereof and having its upper end rigidly connected with the boom, upper and lower arms projecting laterally from said standard and adapted to be secured respectively to the block and crank case of the engine at one side of the tractor, brace rods carried by the rear end of said boom and extending downwardly therefrom and adapted to be secured to the crank case at the ajacent side of the tractor, and bracing bars connected with the boom intermediate the standard and forward end of the boom to extend downwardly from the boom at the opposite side of the tractor from the standard and having their lower ends adapted to be secured to the engine at the opposite side thereof from the brace rods.

1,676,689. INDIAN CLUB. ROBERT EMMETT DWYER, Concord, N. H. Filed June 14, 1927. Serial No. 198,789. 3 Claims. (Cl. 272—84.)



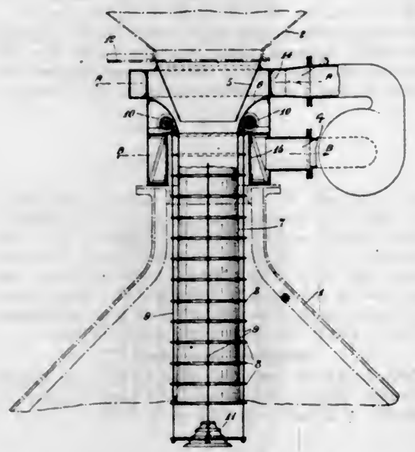
3. In an illuminated Indian club, an Indian club having ribs, a seat in the said club encompassed by the ribs, an electric battery having a lamp located in the seat, and means for detachably securing the battery and lamp in the seat.

1,676,690. VEHICLE HEADLIGHT. JOHN F. FLANNERY, Carbondale, Pa. Filed Dec. 29, 1926. Serial No. 157,754. 2 Claims. (Cl. 240—62.)



1. In dirigible headlights for vehicles, the combination with pivotally mounted lamps, and a link connecting the lamps for synchronous movement, of a compensating connection between said link and the steering link connecting arms of the steering knuckles, the same comprising clamps fast to the respective links, a pair of ears projecting rearwardly from the clamp on the first-mentioned link, a pair of ears projecting forwardly from the clamp on the steering link, sleeves mounted between each pair of ears, pivots inserted through the respective ears and links, a tube projecting from one of the sleeves and a stem projecting from the other sleeve and having a telescopic engagement with the said sleeve.

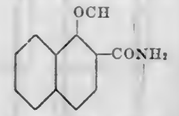
1,676,691. METHOD OF CHARGING CELLULOSE DIGESTERS AND THE LIKE AND MEANS THEREFOR. PER ALBERT FRESK, Robertsfors, Sweden. Filed Nov. 24, 1924, Serial No. 752,072, and in Sweden May 13, 1924. 7 Claims. (Cl. 214—17.)



6. In the process of charging and packing pulp digesters with chips to secure a close and uniform packing of the chips therein, the steps which comprise establishing a circulating air current into and out of a digester, and introducing a charge of chips into said air current entering the digester.

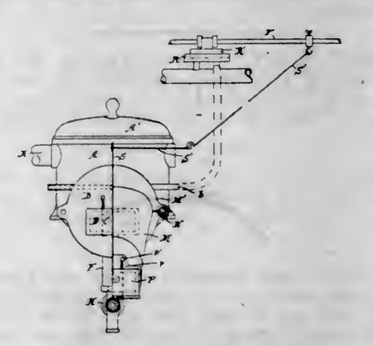
1,676,692. PROCESS FOR CONVERTING CYANNAPHTHALENE-SULPHONIC ACIDS. RICHARD HERZ and FRITZ SCHULTE, Frankfort-on-the-Main, and WERNER ZERWECK, Fechenheim, near Frankfort-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Original application filed Feb. 24, 1927, Serial No. 170,732, and in Germany Dec. 4, 1925. Divided and this application filed Nov. 10, 1927. Serial No. 232,467. 3 Claims. (Cl. 260—124.)

3. As a new compound the 1-methoxynaphthalene-2-carboxyamide of the probable formula:



being when dry a colorless powder, crystallizing from water or dilute alcohol as long colorless needles, melting at 156–157°, insoluble in alkalies, which compound is substantially identical with a product obtainable by treating the 2-cyannaphthalene-1-sulphonic acid at temperatures from about 80 to 150° with a caustic alkali in presence of methylic alcohol, until a test, when acidified, shows, that the product obtained is insoluble in dilute solutions of alkali metal carbonates, but soluble in organic solvents, as ether, benzene, etc.

1,676,693. MILKING-MACHINE RELEASER. JOSEPH HOPKIRK, Cambridge, and GEORGE WILLIAM GANE, Normanby, New Zealand. Filed Jan. 3, 1927. Serial No. 158,699. 5 Claims. (Cl. 31—82.)

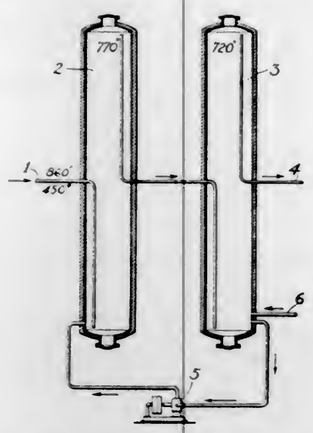


1. In a milking machine releaser, the combination with a receiving chamber connected with a source of vacuum and with the milk pipe and having a discharge opening controlled by a gravity flap valve, of a discharging chamber fitted upon such receiving chamber and over the discharge opening thereof and itself having a discharge opening and a gravity flap hinged on the outside of such opening, a pulsator apparatus connected to such discharging chamber and operated by a reciprocating rod, a lever arm fixed to the flap valve of the discharging chamber, and a flexible cord attached to the end of such lever arm and to the said reciprocating rod and so arranged as to open the valve when the rod moves in one direction and to allow it to close when the rod moves in the other direction.

1,676,694. PYROGENESIS OF PETROLEUM PRODUCTS. FRANK A. HOWARD, Elizabeth, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Feb. 2, 1926. Serial No. 85,432. 3 Claims. (Cl. 196—51.)

1. The process of pyrogenesis of petroleum products which consists in delivering a stream of products of

petroleum heated to an active cracking temperature, into a primary drum in which the products remain at an elevated temperature, above a cracking temperature but below the temperature at which they are delivered, removing admixed products of conversion continuously



from the primary drum and passing them through a secondary drum of similar form, maintaining in the secondary drum a temperature substantially below that in the primary drum, and recirculating a portion of liquid products from the secondary drum directly into the primary drum.

1,676,695. BRACELET CLASP. PERCIVAL W. JONES, Warwick, R. I., assignor to Rosenheim Co., Inc., Providence, R. I., a Corporation of Rhode Island. Filed June 24, 1927. Serial No. 201,124. 6 Claims. (Cl. 24—191.)



1. A band clasp comprising a body having arms to receive and secure between them and the body one end of the band and an anvil plate spaced from said band end to receive between it and the sand band end the opposite end of the band, and means for forcing both of said ends toward said anvil plate.

1,676,696. CLOTHESLINE POLE AND REEL. OSCEOLA KANAWYER and HOWARD KEENER, Huntington Beach, Calif. Filed Feb. 21, 1927. Serial No. 170,008. 2 Claims. (Cl. 68—3.)



1. In a device of the class described, a supporting standard, a shaft journaled transversely on the upper end of the standard, a reel mounted on the shaft for rotation, a clothes line secured at one end on the reel and adapted to be wound therearound, a segmental housing for the upper major portion of the reel, said segmental housing being loosely mounted on the shaft and adapted for swinging movement, said housing being formed with an opening in its peripheral face through which the clothes line passes, and coacting means on the standard and said housing for limiting the pivotal movement of the housing in one direction.

1,676,697. ORTHO-HYDROXYAZO DYE. OSKAR KALTWASSER, Berlin, HANS OEHRN, Charlottenburg, and HERMANN KIRCHHOFF, Berlin-Lichterfelde, Germany, assignors, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed June 30, 1925, Serial No. 40,681, and in Germany July 28, 1924. 5 Claims. (Cl. 260—87.)

3. The herein-described new orthohydroxyazo dyes, which in their dry pulverized form are dark powders soluble in water yielding a yellow to reddish yellow solution but insoluble in ether and in benzene, which dye wool orange to brown tints which become red to bluish red when chromated, which dyes may be obtained by coupling with a 1-aryl-3-methyl-5-pyrazolone the 4-toluenesulphonic ester of 7-hydroxynaphthalene-1,2-diazo-oxide-4-sulphonic acid, and which dyes in the form of their sodium salts probably correspond to the formula:

1,676,698. 2-HYDROXYNAPHTHALENE-3-MONOSULPHO-6-CARBOXYLIC ACID AND PROCESS OF MAKING IT. FRIEDRICH KRECKE, Offenbach, near Frankfort-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed June 2, 1927, Serial No. 196,148, and in Germany June 26, 1926. 8 Claims. (Cl. 260—10.)

1. As a new compound a 2-hydroxynaphthalene-6-carboxymonosulphonic acid having probably the formula:

which is soluble in hot water, difficultly soluble in dilute acids, the disodium salt of which crystallizes in compact needles, which acid is characterized by a blue fluorescence of its solutions in dilutealkali carbonate solutions and its difficultly soluble neutral calcium salt, which acid is substantially identical with that obtainable by acting with sulphuric acid of at least 1,82 specific gravity on 2-hydroxynaphthalene-6-carboxylic acid.

1,676,699. PARING KNIFE. EDWARD WILLIAM LACOSS, Florence, Kans. Filed Oct. 25, 1926. Serial No. 144,057. 1 Claim. (Cl. 30—20.)

In a paring knife of the class described, a cutting blade, a pair of headed rivets associated with the blade in spaced longitudinal relation, the heads of the rivets

being spaced from the adjacent side face of the blade, a gage blade, the lower edge portion thereof being slightly bent outwardly, upwardly extending fingers at the opposite ends of the gage blade, said fingers being of concavo-convex formation in transverse section and being formed with slots which extend downwardly from the upper ends of the fingers for engagement with the headed rivets to facilitate the attachment of the gage blade in predetermined spaced relation with respect to the cutting edge of the knife blade, the heads of said rivets adapted to overlie the slots of said fingers, the fingers being wedged between the knife blade and the heads for frictional locking engagement with the knife blade.

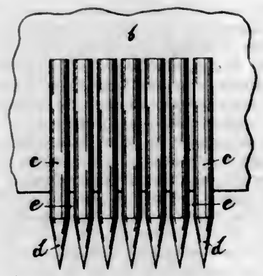
1,676,700. DEHYDRATING ALCOHOL AND THE LIKE. WARREN K. LEWIS, Newton, Mass., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Aug. 16, 1922. Serial No. 582,136. 6 Claims. (Cl. 195—15.)

1. Process of concentrating aqueous solutions of ethyl alcohol, comprising fractionally distilling an aqueous solution containing less than 95.6% alcohol under an absolute pressure corresponding to not more than six inches of mercury, taking off a distillate containing more than 95.6% alcohol, fractionally distilling such distillate under a pressure of at least 100 pounds per square inch, so as to leave a substantially anhydrous residue and obtain a distillate containing less than 95.6% alcohol.

1,676,701. METHOD OF MANUFACTURING ELECTRON-EMITTING CATHODES. GUSTAV LIEBERT, Nuremberg, Germany, assignor to Süddeutschen Telephon-Apparate, Kabel-U. Drahtwerke Aktien Gesellschaft, Nuremberg, Germany. Filed July 1, 1925, Serial No. 40,956, and in Germany July 24, 1924. 3 Claims. (Cl. 250—27.5.)

1. A method of manufacturing electron emitting cathodes consisting in first intimately mixing an electron emitting substance with a carbon compound of high molecular weight, both in a finely pulverized form, then heating and fusing them together, and finally coating the cathode with the substance thus produced.

1,676,702. COMB IN COMBING MACHINES. JOHN WILLIAM NASMITH, Manchester, England. Filed Mar. 10, 1926, Serial No. 93,640, and in Great Britain Mar. 17, 1925. 2 Claims. (Cl. 19—116.)



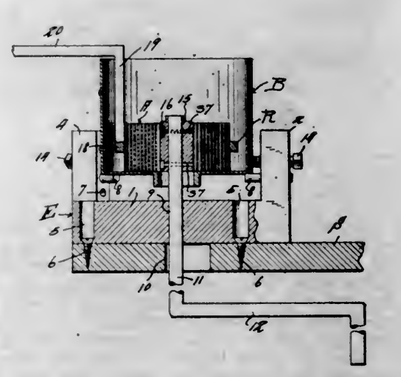
1. A comb for a combing machine, comprising a blade, and a series of combing teeth secured against one side of the blade and having straight cylindrical combing portions spaced apart and arranged parallel to each other and projecting below the edge of the blade and terminating in conical pointed ends.

1,676,703. TOOTHBRUSH. GEORGES NUYTS, Paris, France. Filed May 10, 1927, Serial No. 190,272, and in France Apr. 6, 1927. 2 Claims. (Cl. 15—176.)



1. A tooth brush comprising a brush head provided with a longitudinal channel and provided with identical recesses at the respective ends intersecting the channel, a handle provided with a longitudinal channel, engaging means on one end of the handle complementary to either of the recesses in the head for interengagement with one of said recesses when the handle and head are interengaged with each other, and interengaged fastening elements arranged throughout both of the channels and including a stop head adapted to be countersunk in the outer recess in the head, substantially as and for the purposes set forth.

1,676,704. SPRING-HANDLING APPARATUS. DANIEL E. ODOM, Bennettsville, S. C. Filed Jan. 25, 1927. Serial No. 163,418. 9 Claims. (Cl. 29—87.1.)



1. An apparatus for handling a clock-like spring comprising a base member, a rotating mandrel disposed through said base member and projecting therebeyond in opposite directions, and means arranged at one side of the base member for holding a spring closely adjacent thereto, said mandrel at the same side of the base member as the spring holding means being engageable with the spring to wind or unwind the spring upon required

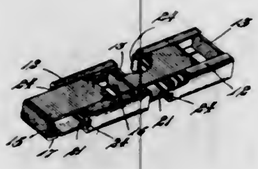
rotation of the mandrel, said mandrel at the opposite side of the member being provided with means for rotating the same thereby leaving the first named side unobstructed for the application or removal of the spring.

1,676,705. TREAD ATTACHMENT FOR VEHICLE WHEELS. PER WILHELM PALM, Baudette, Minn. Filed Feb. 23, 1927. Serial No. 170,372. 1 Claim. (Cl. 152—16.)



A tread attachment for vehicle wheels comprising an inner band composed of a plurality of sections arranged end to end and each of arcuate cross section whereby to encircle a tire upon a wheel, an outer shoe flat in cross section adapted to encircle the said band, and means for securing the shoe and the band in fixed relation about a wheel and the tire thereon.

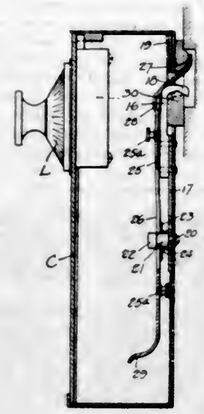
1,676,706. BRACELET. JOSEPH A. PAYETTE, Attleboro, Mass., assignor to S. O. Bigney Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Apr. 9, 1927. Serial No. 182,291. 8 Claims. (Cl. 59—79.)



3. A bracelet chain comprising a series of units connected together, each comprising a guide link and a connecting slide link, said guide link having oppositely disposed side walls with a cross bar connecting said walls at one end only, a spring guided by said walls and acting between said links to press them to contracted position, and fingers on the unconnected ends of said walls folded into said spring to retain the spring in position and at the same time prevent said walls from spreading outwardly.

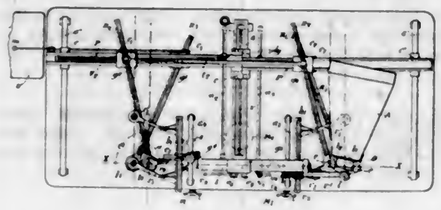
1,676,707. SAFETY-DEPOSIT RECEPTACLE. EDWARD S. PEER, Los Angeles, Calif. Filed Feb. 2, 1927. Serial No. 165,429. 7 Claims. (Cl. 109—1.)

1. A safety deposit receptacle comprising a box, one side of which is provided with an opening and the other side of which is open, stationary and spaced arms fixed to the receptacle and projecting through said opening, a movable arm attachable to the box from a point interiorly thereof and extendible through said opening to



coact with the first arms in providing means for securing the box to a wall bracket, a closure for the box, and locking means for the closure.

1,676,708. APPARATUS FOR AUTOMATICALLY DRAWING MAPS AND PLANS FROM TWO TERRESTRIAL OR AERIAL PHOTOGRAPHS. GEORGES JEAN POIVILLIERS, Paris, France. Filed Apr. 16, 1923, Serial No. 632,417, and in France Apr. 25, 1922. 20 Claims. (Cl. 33—20.)



1. In an apparatus of the character described, a pair of rotatable observation chambers, a periscopic binocular telescope having rotatable parts provided with sighting marks, and means for simultaneously actuating the observation chambers and said rotatable telescope parts whereby the steroscopic mark may be caused to follow the contours of the steroscopic photograph.

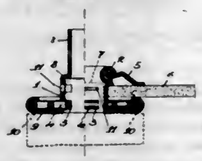
9. In a device of the character described, a pair of pivoted observation chambers, a binocular telescope associated therewith, corrector devices mounted in the telescope, a periscopic carriage at each end of said telescope, each of the carriages being independently movable about the axis of the telescope, there being a sighting mark carried by each carriage, and means for simultaneously moving the observation chambers and the periscopic carriages.

17. In apparatus of the character described, a pair of observation chambers rotatable about a fixed axis, a periscopic binocular telescope having sighting marks rotatable about an axis at right angles to said first named axis, and means for simultaneously actuating said observation chambers and said movable telescope parts whereby the stereoscopic mark may be caused to follow the contours of the stereoscopic photograph.

1,676,709. PROCESS FOR DETERMINING THE COMPOSITION OF COPPER AND ZINC ALLOYS. MICHAEL POLANYI, Berlin-Zehlendorf Mitte, and STEPHAN VON BOGDANDY, Berlin-Dahlem, Germany. Filed Feb. 25, 1927, Serial No. 171,011, and in Germany Mar. 24, 1926. 2 Claims. (Cl. 23—230.)

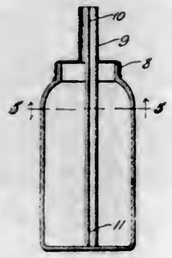
1. A process for determining the composition of alloys of copper and zinc, consisting in weighing a portion of the alloy to be treated, subjecting said weighed portion to the action of heat in a vacuum until all the zinc contained in said alloy is volatilized, and weighing the remaining metal.

1,676,710. PRESS BUTTON. VOJTĚCH PUC, Prague-Weinberge, Czechoslovakia. Filed Sept. 24, 1926, Serial No. 137,568, and in Czechoslovakia Nov. 19, 1925. 4 Claims. (Cl. 24—208.)



1. For use in a press button fastener, a socket part having a tubular extension capable of being riveted over for securing the socket part in position, slots in the said socket part and springs in the socket part extending through the said slots for engaging with a stud part, weak places in the wall of the socket part above the said slots for the springs, as and for the purpose set forth.

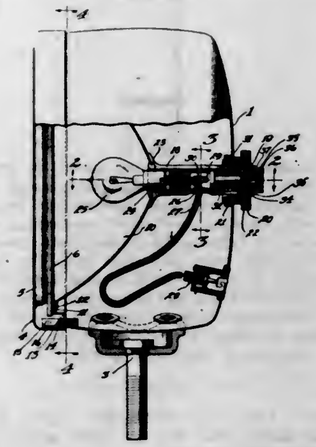
1,676,711. CAN. EDWARD A. REAP, Oilton, Okla. Filed Sept. 27, 1926. Serial No. 138,002. 1 Claim. (Cl. 221—28.)



In a receptacle for containing liquids, a body portion having a threaded mouth, a threaded cap for closing the mouth of the body portion, a tubular member secured within the cap, and extending into the body portion, one side of the tubular member being cut away from a point adjacent to the threaded cap to the inner end thereof, a partitioning member extending throughout the length of the tubular member for dividing the upper portion of the tubular member into lateral compartments, and said partitioning member having a cut away portion at its inner end for admitting fluid to the tubular member.

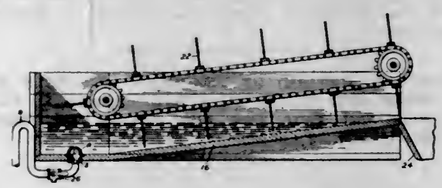
1,676,712. LAMP. CHARLES D. RYDER, Covington, Ky., assignor to The Cincinnati Victor Company, a Corporation of Ohio. Filed Oct. 29, 1924. Serial No. 746,643. 3 Claims. (Cl. 240—44.)

2. A head lamp comprising a casing, a transparent door adapted to close the forward end of said casing, locking means between said door and casing for securing the door to the casing against outward displacement, a reflector mounted within the casing and having a flange at its forward end, said flange in engagement with said transparent door, a tubular stem secured centrally of the reflector and extending rearwardly therefrom, said tubular stem translatably extending through the back of the reflector, and a nut having a rotatable bearing in



the back of the reflector and maintained therein against longitudinal movement, said bearing nut having a threaded engagement with the outer end of the tubular stem, whereby rotation of the nut moves the reflector against the transparent door under the flexing of the casing rear wall.

1,676,713. FEATHER-WASHING MACHINE. FRANK P. SIMMEN, San Mateo, Calif., assignor to Sunset Feather Company, San Francisco, Calif. Filed June 16, 1926. Serial No. 116,405. 1 Claim. (Cl. 141—1.)



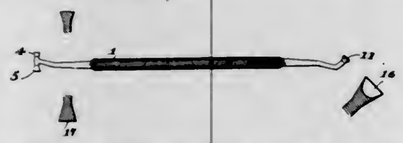
A feather washing machine comprising a vat provided with an inlet and an outlet connected into opposite ends of the vat for circulating a detergent solution therethrough; a longitudinally disposed partition in the vat extending from the inlet end to a point spaced from the outlet end of the vat, the inlet and outlet being arranged upon opposite sides of said partition; agitating means mounted within the inlet side of the vat for agitating feathers introduced thereinto and for propelling said feathers through the detergent; an inclined bottom mounted within the outlet side of the vat and arranged to slope upwardly to a point above the water level of the vat; an endless conveyor mounted adjacent the sloping bottom; combs mounted upon the conveyor and arranged to dip into the detergent above the submerged portion of the bottom to move the feathers from the solution onto the upwardly extending portion of said bottom; and means arranged outside of the vat and connected to the outlet for maintaining a constant water level within the vat said outlet being arranged below the water level to prevent the clogging thereof by the feathers.

1,676,714. FRUIT-CLEANING MACHINE. FRANK E. SMALLIDGE, Wenatchee, Wash. Filed Feb. 9, 1927. Serial No. 166,915. 2 Claims. (Cl. 146—200.)



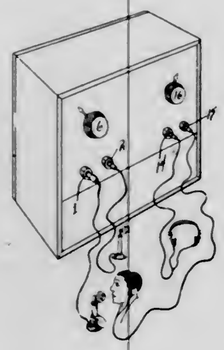
1. In a fruit washing machine, means for spraying and wiping fruit, means for passing air through the fruit, and an elevating mechanism between the two-mentioned means, said elevating mechanism comprising an endless belt, means for training the endless belt through a predetermined orbit, arms projecting from the endless belt and arranged in pairs, frames pivoted between the pairs of arms, canvas or the like across said frames, for maintaining the frames between the arms, means for tilting the frames to deliver the fruit from the elevator mechanism to the second mentioned means.

1,676,715. AMALGAM PLUGGER. EARL M. SNYDER, Detroit, Mich. Filed Nov. 19, 1925. Serial No. 70,128. 1 Claim. (Cl. 32—10.)



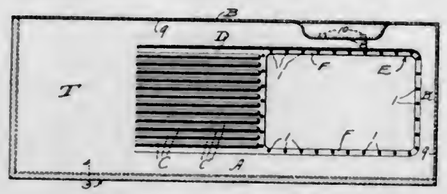
A dental instrument having a carrying end comprising a head, the head consisting of a smooth, deep, conical shaped concavity extending substantially the full length of the head of the instrument, for maintaining the amalgam or other plastic or semi-plastic material from falling off the instrument, whether in normal or inverted position.

1,676,716. METHOD OF TEACHING THE DEAF TO HEAR AND MUTES TO SPEAK. HAROLD L. WARWICK, Fort Worth, Tex. Filed Oct. 11, 1926. Serial No. 140,959. 3 Claims. (Cl. 179—171.)



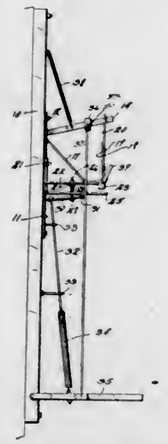
1. The method of training the voice of persons of defective hearing and speech, which consists in electrically transmitting to such person through bone conduction amplified speech sounds, causing the person to simulate the sounds which he hears, and transmitting and amplifying the same similarly to the original sounds to his own hearing senses for comparison.

1,676,717. COMBINATION SINK UNIT. WILLIAM HARTMAN WOODIN, Jr., Plainfield, N. J. Filed Oct. 9, 1926. Serial No. 140,663. 2 Claims. (Cl. 4—189.)



1. A combination sink and splash apron including a sheet metal horizontal member having depending channel shaped front and end portions and an upstanding back flange, and said member being also provided with an opening, a corrugated stiffening portion formed adjacent one end of the opening and constituting a drain board and a sheet metal member providing the splash apron and adapted to be disposed in a vertical plane with respect to the horizontal member and overlapping said upstanding back flange and secured thereto.

1,676,718. MACHINE FOR STAPLING CHICK BOXES. CORNELIUS VAN ZYL, Sheldon, Iowa. Filed Nov. 2, 1926. Serial No. 145,842. 5 Claims. (Cl. 1—4.)



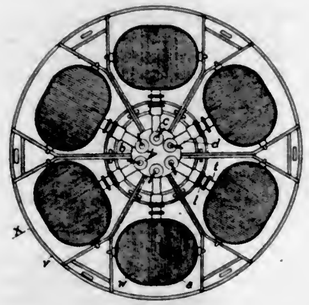
1. A stapling machine of the character described including a support, an upper jaw rigidly mounted upon the support and extending out therefrom and having a staple receiving recess at its outer end, a bracket mounted upon the support and engaging said jaw and provided with guides immediately above the recess, a plunger operating through said guides and recess, an arm mounted upon the support for vertical movement and connected to the plunger, a treadle mounted upon the support and operatively connected to the arm, a lower jaw hingedly mounted upon the support and having an upsetting anvil disposed below said recess, a lever supported below the lower jaw and having one end bearing against the same and a connection between the other end of the lever and said treadle including a coiled contractile spring.

1,676,719. MILLING CUTTER. OTTO VON EBERHARD, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed July 20, 1926, Serial No. 123,673, and in Germany Jan. 30, 1926. 4 Claims. (Cl. 29—104.)



1. A milling cutter comprising a plurality of disks, two series of teeth on said disks, one series being arranged along quick motion helical lines inclined to the right, the other series being arranged along quick motion helical lines inclined to the left, the lines of one series being broken at the joints between two disks to form zig-zag rows of teeth when the teeth of the other series are arranged in common ranks along all the disks, and means for holding the disks in two different angular positions relative to each other, in one of which the teeth of one series are arranged in common ranks, and in the other of which the teeth of the other series are arranged in common ranks.

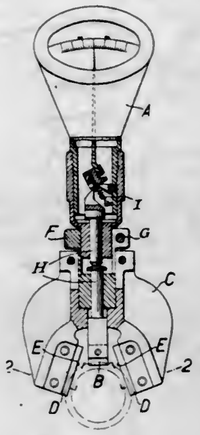
1,676,720. MACHINE FOR THE SINTERING OF ORE AND THE LIKE. PAUL ANDERSON, Vasteras, Sweden. Filed Nov. 16, 1926, Serial No. 148,739, and in Sweden Aug. 1, 1926. 4 Claims. (Cl. 266—21.)



1. An ore sintering machine, comprising, in combination, a horizontal rotatory frame, sintering pans distributed around the axis of said frame and being adapted to be tilted around horizontal axes lying at substantially right angles to the radii extending from the frame axis to the mid points of said pans; suction pipes extending from the bottom of the pans radially inwards with the respect to said frames and other suction pipes extending from the center portion of the said frame radially outwards and communicating each with one of the pan suction pipes.

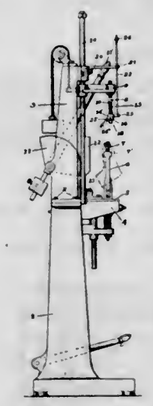
1,676,721. GAUGE WITH A PRECISION INDICATOR FOR TESTING THE FLANK DIAMETER OF EXTERNAL THREADS. MAX BARTHOLDY, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed June 8, 1926, Serial No. 114,543, and in Germany Dec. 16, 1925. 2 Claims. (Cl. 33—199.)

1. A gauge for testing the flank diameter of external threads, comprising a precision indicator having a feeling bolt, a holder in which said precision indicator is clamped, and a pair of angularly related jaws on said holder, said feeling bolt projecting through the apex of the angle



formed by said jaws, the jaws and feeling bolt having measuring plates adapted to engage a thread at the flank diameter thereof.

1,676,722. SHOE LOCATOR FOR SHOE-TURNING MACHINES. DAVID BAUM, Livermore Falls, Me. Filed Oct. 29, 1925. Serial No. 65,616. 5 Claims. (Cl. 12—57.)

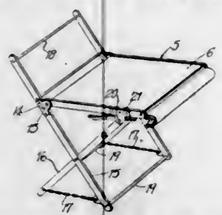


1. In a shoe turning machine, a reciprocable plunger, a deflector member yieldingly and oscillatively mounted on said plunger, means to actuate said plunger whereby said deflector member may be brought into engagement with the upper of a shoe, loosely positioned in said machine, for the purpose of automatically and positively positioning the shoe for the subsequent turning thereof.

1,676,723. COMBINATION CHAIR AND WINDOW SEAT. PAUL BAUMGARTEN, Richmond Hill, N. Y. Filed July 8, 1927. Serial No. 204,332. 2 Claims. (Cl. 304—27.)

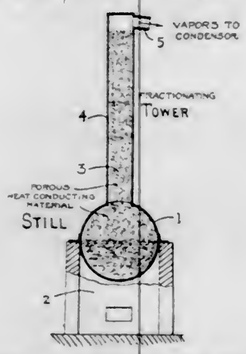
1. A combination chair and window seat comprising a main seat member, an auxiliary seat piece slidable therein and having depending side edges, serrations in said

edges, a hook on the forward edge of said auxiliary seat for attaching the same to a window sill, a pawl at each side of said seat for engaging in any one of said serra-



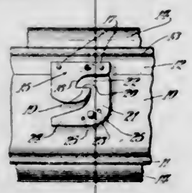
tions of the same side edge for limiting the movement of the auxiliary seat relatively to the main seat member and foldable legs on the main seat member.

1,676,724. ART OF DISTILLATION. ARMAN E. BECKER, Newark, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Mar. 6, 1923. Serial No. 623,122. 1 Claim. (Cl. 196—79.)



The improvement in the art of distilling hydrocarbon oils, which comprises subjecting a considerable body of oil to distillation at a temperature not materially in excess of its temperature of vaporization, while in contact with steel wool.

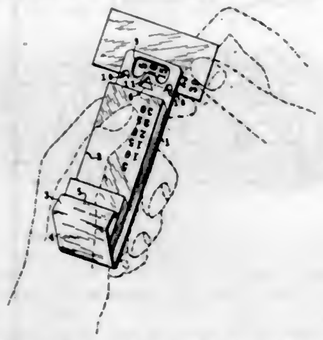
1,676,725. RIM FOR VEHICLE WHEELS. CHRIS T. BIERS, Lamoille, Ill. Filed Dec. 9, 1926. Serial No. 153,501. 3 Claims. (Cl. 301—35.)



2. In a split tire rim a latch pivoted in spaced relation to said rim and frictionally contacting therewith at two spaced points, said points of contact being on opposite sides of said pivot so that movement of the latch from latched position toward unlatched position will cause said points of frictional contact to subtend an increasing chord of said rim.

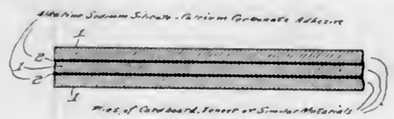
1,676,726. SALES-CHECK HOLDER. EDWARD KIRBY BOTTLE, Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario. Filed Nov. 3, 1922. Serial No. 598,700. 5 Claims. (Cl. 206—40.6.)

1. A holder for a pad of checks including, in combination, a pad supporting plate having a punch opening, and a strip of resilient metal held on the plate intermediate its ends, the opposite ends of said strip lying opposite opposite faces of said plate respectively, one of said ends having a punching jaw adapted to cooperate



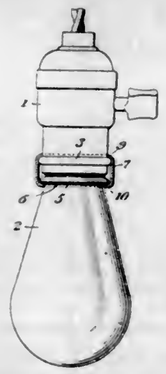
with the punch opening to mark a check in position between the punching jaw and plate and the other end providing a spring cooperative to retain the pad on the holder.

1,676,727. COMPOSITE BOARD. JOHN D. CARTER, Lansdowne, Pa. Filed July 18, 1921. Serial No. 485,648. 3 Claims. (Cl. 154—45.9.)



1. A laminated article comprising water-resistant plies united by the reaction products of alkaline sodium silicate solution and calcium carbonate, said article being resistant to water and humid climatic conditions.

1,676,728. INCANDESCENT-LAMP LOCK. JAMES COOKE, New York, N. Y., assignor of one-half to Wilcox A. Creamer, Brooklyn, N. Y. Filed Mar. 12, 1927 Serial No. 174,875. 7 Claims. (Cl. 176—31.)



1. The combination of a lamp socket; an electric lamp in the form of a glass bulb provided with a screw plug adapted to fit said socket; a non-conducting locking shoulder directly and rigidly carried by the lamp bulb adjacent the screw plug; and retaining means to connect said locking shoulder with the socket and prevent the removal of the bulb from the socket.

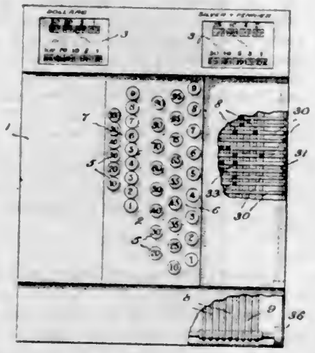
1,676,729. PROCESS FOR MAKING SYNTHETIC CARBONACEOUS COKE BRIQUETTES FOR METALLURGICAL USES. BERTRAM ERWIN CROCKER, Los Angeles, Calif. Filed Jan. 22, 1925. Serial No. 4,122. 7 Claims. (Cl. 44—16.)

1. The process of forming synthetic coke briquettes for subsequent use as a metallurgical coke from the carbon residue previously obtained from fluid hydrocarbons in the manufacture of oil gas; and comprises incorporating with said residue a gas liberating substance, then comprising and molding said residue and substance into a briquette and then causing gas to be liberated in the briquette by heating the briquette to a temperature to liberate the gas in said substance.

1,676,730. METHOD OF PREPARING SMOKED JOINT MEATS. ARTHUR W. CUSHMAN, Winnetka, Ill., assignor to Allied Packers, Inc., Chicago, Ill., a Corporation of Delaware. Filed Jan. 13, 1926. Serial No. 81,104. 3 Claims. (Cl. 99—11.)

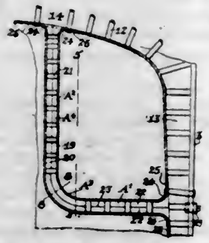
1. A method of preparing smoked joint meats, which consists in first smoking a joint, then subjecting it while in a deformable condition to a pressure which is sufficient to change its shape, and then holding the joint under pressure until it has permanently assumed such shape.

1,676,731. DENOMINATING MACHINE. JAMES HARRISON, Brooklyn, N. Y. Filed Feb. 26, 1924. Serial No. 695,239. 5 Claims. (Cl. 235—82.)



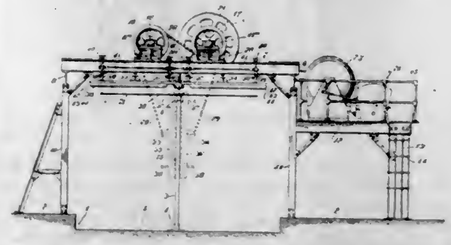
4. A denominating machine comprising keys, a registering mechanism, selector mechanism controlled by said keys for operating said registering mechanism including two overlapping groups of pivoted levers disposed at right angles to each other.

1,676,732. LOCOMOTIVE FIRE BOX. CHARLES GILBERT HAWLEY, Chicago, Ill., assignor to Locomotive Firebox Company, Chicago, Ill., a Corporation of Delaware. Filed May 13, 1922. Serial No. 560,663. 4 Claims. (Cl. 122—68.)



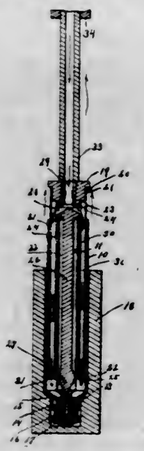
1. A locomotive boiler and its stay bolted internal firebox, in combination with two longitudinally disposed and transversely opposed flat faced and stay bolted bracket-shaped water circulating walls within said firebox, each said wall having a transverse lower portion that is rearwardly and upwardly inclined and, at its outer end, attached to its respective side of the firebox, each said wall having an upright upper portion which has its top attached to the top of the firebox, and, the upright portions of the two walls being separated by a passage which affords access to the front of the firebox.

1,676,733. MACHINE FOR FORMING, BENDING, FOLDING, AND SHAPING HEAVY METAL SHEETS. CHARLES GILBERT HAWLEY, Chicago, Ill., assignor to Locomotive Firebox Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 6, 1925. Serial No. 7,230. 25 Claims. (Cl. 153—16.)



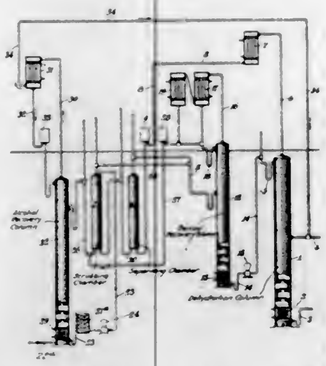
1. A device of the kind described embodying therein a mandrel, a pair of swingable members, a plurality of spotting columns for locating and holding said swingable members with respect to said mandrel, brackets secured to said swingable members, and means for operatively connecting said brackets together, said last mentioned means being secured to said spotting columns.

1,676,734. APPARATUS AND METHOD FOR FILLING COLLAPSIBLE TUBES. NEVIL MONROE HOPKINS, New York, N. Y., assignor, by mesne assignments, to Gilmont Products Corporation. Filed Dec. 16, 1922. Serial No. 607,338. 5 Claims. (Cl. 226—100.)



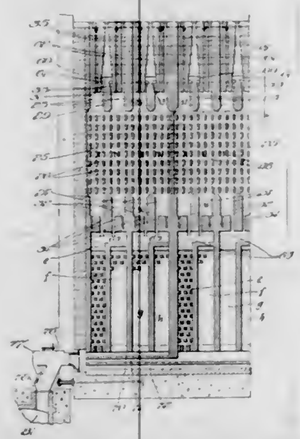
1. A method of filling a receptacle comprising separated compartments formed by collapsible tubes which comprises introducing matter initially at the bottom of the outer compartment and continuing progressively upwardly to fill the compartment while internally supporting the walls of the inner compartment and subsequently filling the inner compartment.

1,676,735. PROCESS OF OBTAINING ABSOLUTE ALCOHOL. DONALD B. KEYES, New York, N. Y., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Dec. 27, 1922. Serial No. 609,201. 10 Claims. (Cl. 195—15.)



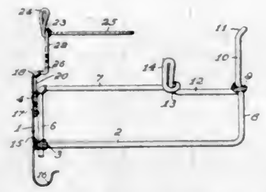
4. In a process of separating the constituents of a mixture of three liquids that form a ternary minimum constant boiling mixture, which upon condensing settles into layers, the steps comprising distilling the mixture so as to leave a portion of one of said liquids in substantially pure form as a residue, condensing the constant boiling mixture evolved and allowing it to settle into layers, rectifying one of the layers so as to recover at least a portion of one of said three liquids other than said residue in pure form and returning it to the mixture being distilled, treating the other layer so as to recover therefrom, in concentrated form, at least a portion of the other one of the liquids which is not the same as said residue, and returning it to the first-mentioned mixture being distilled.

1,676,736. COKE OVEN. THOMAS G. KUS, Chicago, Ill., assignor, by mesne assignments, to Chicago Trust Company, trustee, Chicago, Ill., a Corporation. Filed July 16, 1923. Serial No. 651,693. 11 Claims. (Cl. 202—9.)



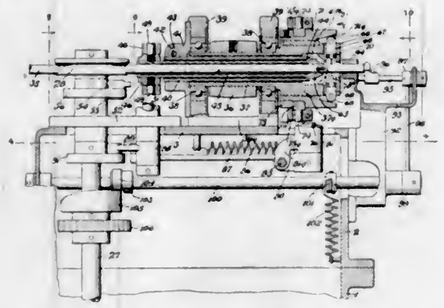
1. A series of horizontally elongated coking chambers arranged side by side, the intermediate walls thereof being common to each two contiguous chambers respectively, each heating wall having heating chambers on opposite sides of the central plane thereof, ignition chambers at the top and bottom respectively of the heating chambers, ports for conveying air to and waste gases from the lower ignition chambers, vertical passages intermediate the heating chambers and communicating with the lower ends thereof for supplying them with fuel gases, mains supplying the upper ends of said passages with fuel gases, other vertical passages extending between the heating chambers and opening thereinto intermediate their height, mains for supplying gas to the last named passages, ports communicating with the upper ignition chambers for supplying air thereto and permitting the escape of waste gases therefrom and vertical flues intermediate the heating chambers and communicating with the last named ports on opposite sides of the wall.

1,676,737. COMBINATION HANGER. AMOS F. LADWIG, Waterloo, Iowa. Filed Aug. 8, 1925. Serial No. 49,027. 2 Claims. (Cl. 211—96.)



1. A device of the character described, comprising a vertically disposed and elongated back-plate, said plate having a plurality of pressed-out apertured bearing-lugs, a bracket-hanger consisting of an elastic rod bent to have an end member serve as a rock-shaft and seated loosely in said bearing-lugs, said rod having end-connected substantially parallel reaches and having at its other end a terminal eye mounted loosely upon said shaft part and engaged between two lower bearing-lugs, and engaging means upon the uppermost bearing-lug engageable by the upper reach of the rod yieldingly to hold the same releasably in either of two positions horizontally relatively to the back-plate.

1,676,738. AUTOMATIC WOODWORKING MACHINE. WILLIAM LOTTERMAN, LEONARD B. LESTER, and MERRITT K. ONTON, Grand Rapids, Mich. Filed Jan. 26, 1925. Serial No. 4,718. 6 Claims. (Cl. 142—29.)



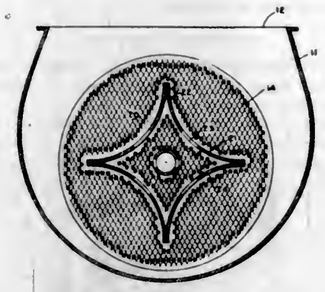
1. In a machine of the class described, a support, a horizontal sleeve rotatably mounted in said support, means for continuously driving said sleeve, cutting tools mounted at one end of the sleeve and slidable radially inward or outward thereon, a second sleeve located within the first sleeve and connected to the support, a third guide sleeve located within the second sleeve through which a length of material may be fed, means for moving said guide sleeve longitudinally to bring the same into engagement with the second sleeve and thereby

clamp the material against longitudinal movement, and means movably mounted on the first sleeve and engaging with the cutting tools operable to move said tools inwardly toward the material during the times that the material is held against movement, substantially as described.

1,676,739. APPLYING, BLENDING, AND SETTING COLORS. OTTO S. MARCKWORTH, Columbus, Ohio. Filed July 10, 1924. Serial No. 725,212. 17 Claims. (Cl. 41—27.)

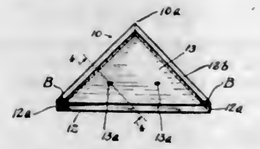
16. The method of applying color which comprises coating the area to be colored with a wax emulsion and then applying color to said area.

1,676,740. CONDENSER. DAVID W. R. MORGAN, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 19, 1927. Serial No. 185,009. 10 Claims. (Cl. 257—43.)



1. A radial-flow condenser comprising a shell having an inlet, a nest of tubes within the shell, partition means dividing the nest into substantially sector-shaped portions and providing a central chamber for cooling air and non-condensable gases, a bank of tubes within the central chamber, and an air and non-condensable gas offtake extending within the central chamber.

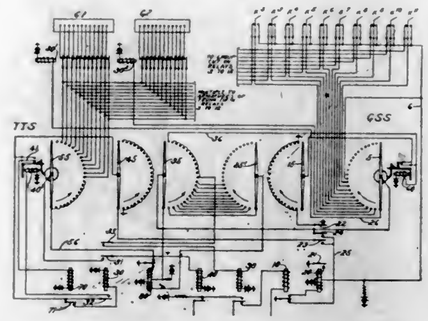
1,676,741. BOOK-CORNER PROTECTOR. JAKOB MOSKOWITZ, Brooklyn, N. Y. Filed Aug. 5, 1927. Serial No. 210,759. 2 Claims. (Cl. 281—20.)



1. In a book corner protector, the combination of an outside member, and an inside member, the former having edge walls within which the inside member is positioned, said walls having inward extending flanges, said flanges having beaded engagement with the inside member.

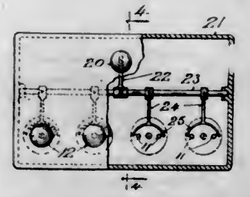
1,676,742. TRAFFIC-RECORDING EQUIPMENT FOR TELEPHONE SYSTEMS. JOHN E. OSTLINE, Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed July 12, 1924. Serial No. 725,539. 26 Claims. (Cl. 179—9.)

1. In a telephone system, groups of trunk lines, a trunk testing switch common to said groups, means for associating said groups with said switch, in a definite order and for causing said switch to determine the busy or idle condition of each trunk of a connected group, and means responsive to each group testing operation for



making two separate records indicating the number of the group tested and the individual numbers of the busy trunks in the tested group, respectively.

1,676,743. PUSH-BUTTON APPARATUS FOR MULTIPLE-UNIT DOOR-CONTROL SYSTEMS. ABRAM FRANK PAUL, Llanerch, Pa., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed Dec. 17, 1921. Serial No. 523,077. 2 Claims. (Cl. 200—17.)

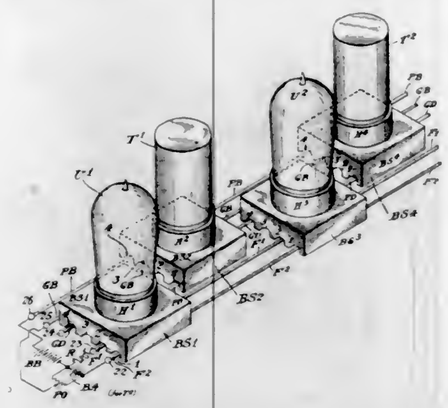


1. In a multiple circuit control device the combination of a plurality of circuit terminals, independent means for closing the circuit to each individual pair of contacts, a rod having a plurality of contact fingers thereon for simultaneously closing the circuits to each individual pair of contacts, and independent means to operate said rod to close the circuits.

1,676,744. ELECTRICAL AMPLIFIER. GREENLEAF WHITTIER PICKARD, Newton Center, Mass., assignor to Wireless Specialty Apparatus Company, Boston, Mass., a Corporation of New York. Filed Feb. 5, 1923. Serial No. 616,923. 10 Claims. (Cl. 179—171.)

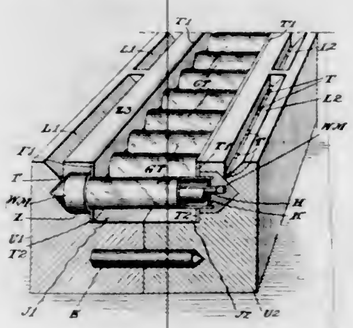
1. In a thermionic tube amplifier, the combination with the thermionic tube, a tube-coupler and the amplifier circuit leads arranged in six rows, each of the tube and coupler having four exterior contact terminals, of duplicate sockets comprising receptacles which, together with the tube and coupler are constructed for the detachable reception of such tube and coupler, and comprising bases formed with four grooves for the reception of the leads; said sockets being provided with contact terminals arranged co-operatively with the arrangement of the four contact terminals of the tube and coupler respectively for the mutual engagement of said contact terminals when the tube and coupler are held in the receptacle; said sockets being provided also with connectors electrically connected with the contact terminals of the sockets

and constructed for detachable connection with the leads in the grooves of the socket; and said duplicate sockets



being arranged in relatively staggered positions for the conjoint reception of the six rows of leads in the eight socket-grooves.

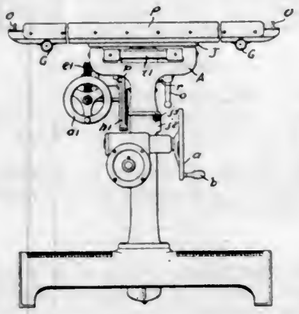
1,676,745. ELECTRICAL REACTANCE, AND METHOD AND APPARATUS. GREENLEAF WHITTIER PICKARD, Newton Center, Mass., assignor to Wireless Specialty Apparatus Company, Boston, Mass., a Corporation of New York. Filed Sept. 24, 1924. Serial No. 739,517. 2 Claims. (Cl. 201—76.)



2. The method consisting in placing an electrical device in an open-ended tube of insulating material, with the conducting terminals of the device located approximately at the open ends of the tube; inserting perforated disks in the ends of the tube and over the terminals of the device, locating the disks inwardly of the ends of the tube and the terminals of the device; embedding the ends of said assembled structure exposed from said disks in molten metal of low melting point which expands upon solidification; and allowing solidification of said expanding metal portions thereby causing the latter to grip the terminals of the electrical device in good electrical contact.

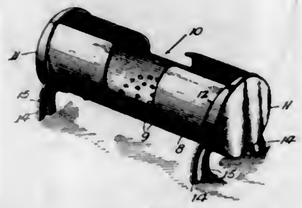
1,676,746. UNIVERSAL DRAFTING TABLE. MARCELLUS REID, Cleveland, Ohio. Filed May 6, 1922. Serial No. 559,004. Renewed Apr. 20, 1927. 5 Claims. (Cl. 45—110.)

1. A drawing table comprising a vertically disposed support, a horizontally disposed frame fastened to said support, said frame being formed of sheet metal bent to define a series of reversely disposed channels, T square



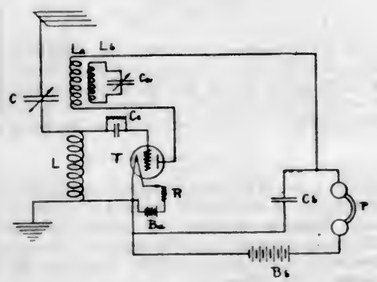
guides carried by said frame, a drawing board detachably connected to said frame, and means for clamping said drawing board to said frame.

1,676,747. TOOTHPICK HOLDER. FRED RINGS, Chicago, Ill. Filed Dec. 8, 1924. Serial No. 754,494. 2 Claims. (Cl. 312—73.)



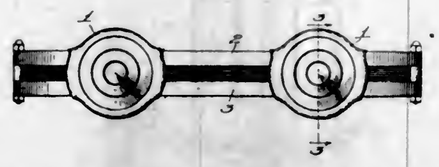
1. As a new article of manufacture a tooth pick holder comprising a cylindrical body member adapted to hold tooth-picks, said member having an opening through which the tooth-picks may be withdrawn, and end members formed of sheet metal and provided with inwardly extending annular flanges fitting around and secured to the body member, the free margins of said flanges having formed integrally therewith a plurality of tongues, said tongues being bent downwardly and at substantially right angles to the flanges to form supporting legs for the holder.

1,676,748. MEANS FOR RADIOSIGNALING. SAMUEL RUBEN, New York, N. Y. Filed June 16, 1924. Serial No. 720,341. 4 Claims. (Cl. 250—27.)



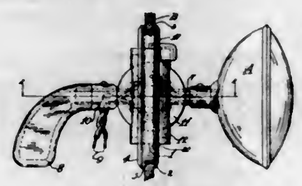
1. In a radio signaling system, the combination, with a resonant grid circuit upon which high frequency oscillations are impressed, of a plate or output circuit arranged to feed back in opposite polarity to the impressed oscillations in said resonant grid circuit, and of a third circuit coupled to said output circuit and adapted to be tuned to resonance with oscillations of the desired frequencies.

1,676,749. AUTOMOBILE BUMPER. HAROLD SCUTERUD, Chicago, Ill. Filed Dec. 26, 1927. Serial No. 242,535. 4 Claims. (Cl. 293—55.)



3. The combination with an automobile, of two large stiff vertical bumper plates secured thereto and lying beyond an end thereof on opposite sides of the longitudinal center line of the automobile, each plate being in the form of a shield the major portion of which consists of a flat cone having its apex at the front.

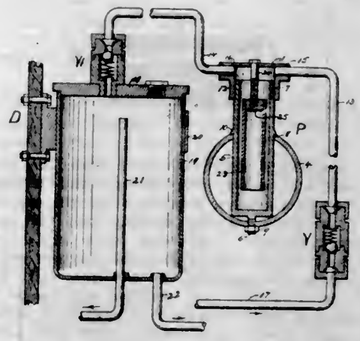
1,676,750. VEHICLE SEARCHLIGHT MOUNTING. WALTER VAN GUILDER, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Jan. 24, 1925. Serial No. 4,592. 7 Claims. (Cl. 240—61.)



1. In combination with an apertured wall, a searchlight and the like by which it is carried extending transversely of said wall; an immediate carrier for the arm to which the same is pivoted transversely of the length of the arm for rocking longitudinally; a support to which said immediate carrier is pivoted transversely both of the length of the arm and of the pivot of the arm to the carrier, said support being secured at the wall aperture, the immediate carrier and the support therefor being respectively a cylinder which is long relatively to its diameter, and a cylinder which is flat and thin relatively to its diameter, the cylindrical carrier being longitudinally divided at a plane cutting the aperture which accommodates the bearing member, and means for pivoting the latter in the former, comprising two pivotal trunnions adapted for housing between them a spring, and a spring so housed for reacting to spread the trunnions, thereby tending to spread the divided members of the cylindrical carrier for simultaneously effecting snug seating of the trunnion bearing parts in the cylindrical carrier and the parts of the cylindrical carrier in the mount.

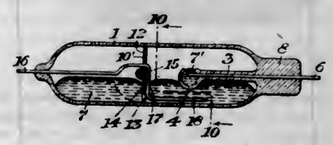
1,676,751. FUEL-FEED SYSTEM FOR INTERNAL-COMBUSTION ENGINES. LESTER E. VAN HISE, Altadena, Calif., assignor to James V. Baldwin, Los Angeles, Calif. Filed May 12, 1925. Serial No. 29,822. 8 Claims. (Cl. 158—36.4.)

1. A thermal pump including a tubular receptacle having valved intake and discharge connections, a tubular shell open at one end and closed at its other and arranged in said receptacle to provide a relatively constricted passage between the shell and the receptacle



and a sealed vapor chamber within the shell when the receptacle is supplied with liquid, and means for adjusting said shell in said receptacle.

1,676,752. ELECTRIC SWITCH. WARREN R. WALKER, Great Kills, N. Y., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed Nov. 25, 1924. Serial No. 752,099. 16 Claims. (Cl. 200—152.)



1. In an electric switch of the liquid flow type, a sealed envelope of glass, a support arm in said envelope and unitary therewith, a cup formed on said arm, the opening of said cup being parallel to the longitudinal axis of the tube, and electrode sealed into said envelope and terminating therein and another electrode sealed into the envelope and terminating in said cup, and a body of mercury in said envelope in quantity sufficient to extend into said cup and to connect said electrodes in a closed circuit position of the switch and to form separate pools about said electrodes in an open circuit position thereof.

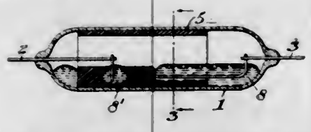
12. In an electric switch of the liquid flow type, a sealed vitreous envelope, a baffle formed separate from the envelope and spaced therefrom mounted substantially across the interior of said envelope dividing it into two chambers, said baffle having formed therein a restricted opening near the bottom to connect the two chambers, an electrode sealed through the wall of said container, a second electrode sealed through said envelope, a wall of vitreous material sealed to said envelope about and terminating above said second electrode, mercury in said envelope connecting with first said electrode and extending between the limits of said wall about second said electrode and connecting with said second electrode in a closed circuit position of the switch, and in an open circuit position of the switch positioned at a level below that of the upper limit of said wall about said second electrode said baffle being hinged to permit its movement in one direction only from its normal position across said envelope.

1,676,753. LIQUID-FLOW SWITCH. WARREN R. WALKER, Great Kills, N. Y., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed Apr. 21, 1925. Serial No. 24,753. 12 Claims. (Cl. 200—152.)



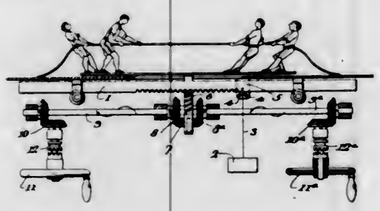
1. In a mercury switch having a sealed envelope of glass, electrodes sealed therethrough and terminating therein, one of which has mounted about the end thereof a cup of vitreous material opening into the envelope and having integral connection with said envelope through a sleeve of vitreous material covering said electrode between the cup and the envelope wall, and an integral lining within said envelope and spaced apart therefrom at a short distance and positioned across the shortest path between the envelope wall and any part forming position which said conductors can assume in any position of the switch.

1,676,754. MERCURY SWITCH. WARREN R. WALKER, Great Kills, N. Y., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed June 17, 1925. Serial No. 37,646. 3 Claims. (Cl. 200—152.)



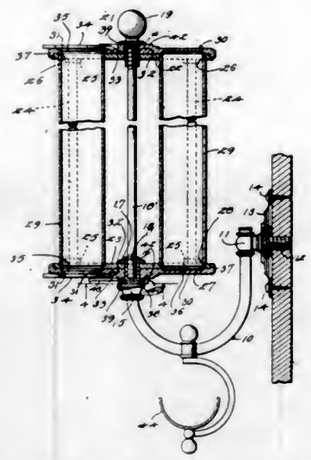
3. In a mercury switch, a tubular envelope, a tubular lining in said envelope having a pocket therein between the limits thereof, leads sealed into said envelope, one of them terminating in said pocket, mercury in said envelope in sufficient quantity to fill said pocket and to form a conducting path between said electrodes in a closed circuit position of the switch, said lining being formed to present within the limits of the envelope an edge for separating the mercury of said pocket from the main body thereof in an opening of the switch.

1,676,755. GAME APPARATUS. ALFRED LEONARD WALTON, Blackpool, England. Filed Sept. 16, 1926. Serial No. 135,971, and in Great Britain Sept. 18, 1925. 6 Claims. (Cl. 273—85.)



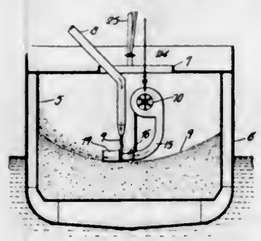
1. A game apparatus comprising a movable indicating member, an element coupled to the indicating member for moving it in opposite direction from a zero point, a plurality of control devices coupled to the direction element adapted to be operated independently at competitive speeds by opposing participants in the game and an element coupled to the indicating member tending to keep such member in the zero position.

1,676,756. ROTARY CONTAINER. ARTHUR J. WEICHSEL, New York, N. Y. Filed Aug. 11, 1927. Serial No. 212,297. 6 Claims. (Cl. 206—15.1.)



6. In a tooth brush holder, a stationary axle, a rotatable structure mounted on the axle and including a plurality of parallel open-ended tubes grouped about and uniformly spaced from the axle, and means for holding the tubes in assembled relation, upper and lower stationary plates carried by said support and each having an opening with which the tubes of the rotatable structure are alignable and means closing the openings of said stationary plates.

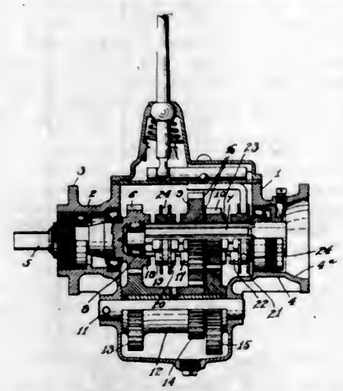
1,676,757. APPARATUS FOR TRIMMING GRAIN. OSCAR E. WEST, New Orleans, La. Filed May 21, 1927. Serial No. 193,138. 4 Claims. (Cl. 302—17.)



1. A portable grain trimmer comprising in a unitary structure adapted to be suspended from a rope, a fan, an electric motor driving said fan, a conduit projecting downwardly from said fan and having a horizontally directed nozzle, and a directing conduit arranged in front of said nozzle in a spaced relation thereto, whereby grain will fall into the path of air passing from said nozzle into and through said directing conduit and will enter and be projected from the latter.

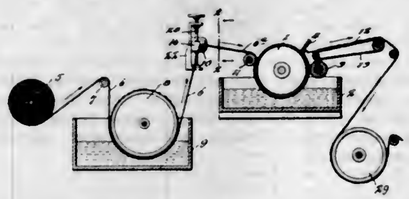
1,676,758. AUXILIARY TRANSMISSION. SAMUEL O. WHITE, Muncie, Ind., assignor to Warner Gear Company, Muncie, Ind., a Corporation of Indiana. Filed Jan. 5, 1925. Serial No. 558. 4 Claims. (Cl. 74—59.)

3. In an automobile transmission the combination with a casing, of a driving shaft and a secondary driving shaft mounted therein, and having continuous splines thereon, a gear on said driving shaft, a set of gears for driving said secondary driving shaft including a gear floatingly mounted on said secondary driving shaft and a gear mounted on a counter-shaft and driven from the driving shaft the ratio of said gears being such as to drive said secondary driving shaft at a speed greater than the driving shaft, a second set of gears including a floating gear on the secondary driving shaft and a gear on the counter-shaft driven from the driving shaft



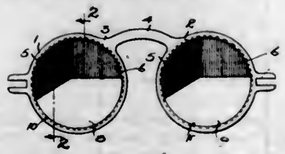
and having a speed ratio such as to drive the secondary driving shaft at a speed lower than that of the driving shaft, said floating gears having annular plates thereon engaging the gears on the secondary shaft to prevent lateral displacement of the floating gears, and clutch members splined on said secondary shaft and longitudinally shiftable for connecting said floating gears to the secondary driving shaft.

1,676,759. PROCESS AND MECHANISM FOR PRODUCING STRETCHABLE PAPER. HOWARD G. WIDMER, Brooklyn, N. Y., assignor to Arkell Safety Bag Company, New York, N. Y., a Corporation of New York. Filed Dec. 11, 1925. Serial No. 74,905. 42 Claims. (Cl. 92—69.)



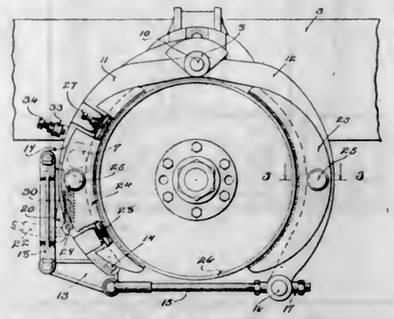
1. The process of making stretchable paper which consists in forming in the paper tight, irregular, discontinuous longitudinal folds distributed throughout the length and breadth of the paper.

1,676,760. GOGGLES. JOHN ALEXANDER WILSON, Windsor, Ontario, Canada. Filed Dec. 1, 1926. Serial No. 151,890. 3 Claims. (Cl. 88—41.)



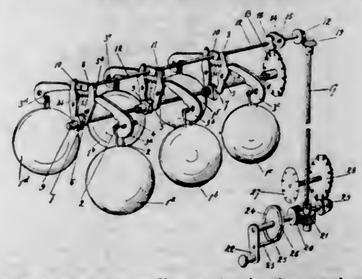
2. In an arrangement of the character described, the combination of two lens frames held in spaced relation to one another, a lens section of darker colored substantially transparent material in one upper side of each lens frame adapted to obstruct glare from headlights close at hand, a lens section of lighter colored substantially transparent material in the other upper side of each lens frame adapted to intercept light from headlights further away, the darker and lighter lens sections in each lens frame being contiguous to one another, and said darker and lighter lens sections having their lower margins so positioned that the wearer may look under them and obtain unobstructed vision.

1,676,761. BRAKE. ARTHUR C. WOLLENSAK, ANTON JACOBS, and PAUL C. BALDUS, Milwaukee, Wis., assignors to Sterling Motor Truck Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 5, 1926. Serial No. 86,202. 1 Claim. (Cl. 188—74.)



A jack shaft brake for automotive vehicles provided with a jack shaft brake drum, said brake comprising a channel-shaped bracket attached to the side frame bar of the automotive vehicle and projecting outwardly above said brake drum and having a pair of spaced bearings, a pin carried between said bearings, a pair of channel-shaped brake levers having intermeshing upper ends pivotally mounted upon said pin, a pair of channel-shaped brake shoes enclosing a portion of said brake levers and pivoted intermediate the ends of said shoes to said brake levers, said brake shoes being adapted to grip the brake drum between them, set screws carried by each of said brake levers and limiting the swinging motion of the brake shoes in one direction, springs interposed between said brake shoes and brake levers and tending to swing such brake shoes into contact with the set screws, a bell crank lever pivoted to one of said brake levers and connected to the other of said brake levers by means of a link, means for rocking said bell crank lever, and an adjustable stop carried from said bracket for limiting the outward motion of one of said brake levers.

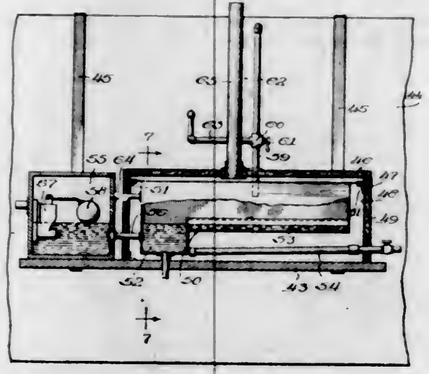
1,676,762. DEVICE FOR RELEASING PROJECTILES ON AIRCRAFT. ROBERT ALKAN and GEORGES LESOURD, Paris, France. Filed May 6, 1926, Serial No. 107,199, and in France May 12, 1925. 3 Claims. (Cl. 244—1.)



1. A device for suspending and releasing projectiles on air craft comprising in combination with releasing elements with positive locking and with automatic engage-

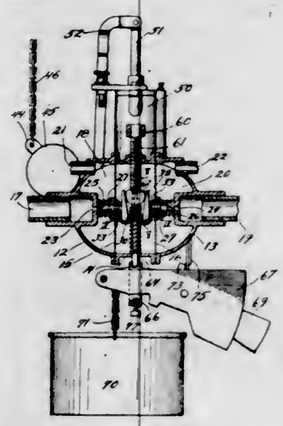
ment, two driving systems the one effecting at regular intervals the locking and unlocking of all releasing elements and the other, the movement of which depends on the first one, ensuring during the unlocking periods the successive releasings, and means for positively connecting said two driving systems so that all the elements are in the positively locked position.

1,676,763. HUMIDIFYING APPARATUS. FRANK A. ANETSBERGER and WILLIAM ANETSBERGER, Chicago, Ill. Filed Sept. 12, 1927. Serial No. 219,153. 8 Claims. (Cl. 107—64.)



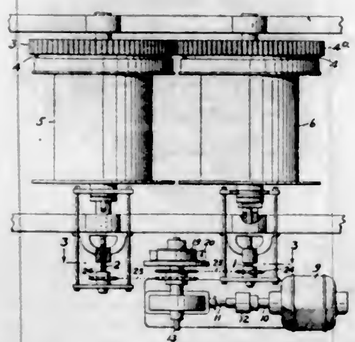
2. Apparatus of the class described comprising a casing, a vapor generating receptacle within said casing having a vapor outlet, said receptacle being provided with a well and a channelled bottom portion, a burner in said casing beneath said bottom, a water reservoir communicating with said well, and means in said reservoir for controlling the level of water in said well and in the channels of said bottom.

1,676,764. CONTROLLING MEANS FOR MULTIPLE FUEL BURNERS. ELI A. BASEL, Kansas City, Mo. Filed Nov. 26, 1923. Serial No. 677,146. 16 Claims. (Cl. 158—45.5.)



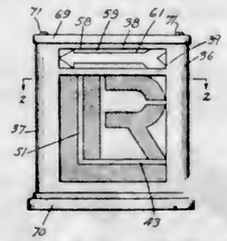
1. Valve mechanism for burners comprising, in combination with a pair of separate and independent fuel passages leading to the burner for feeding different fuels thereto, a separate valve controlling the flow of fuel into each of said passages, common means operating to maintain said valves normally in closed position, and valve controlling means comprising shafts provided with connections for simultaneously actuating both of said valves, and a cam element carried by one of said shafts and adapted to operate the corresponding valve in advance of the other valve, said cam element being adjustable to vary the timed relation of the operative movements of said valves.

1,676,765. MECHANISM FOR OPERATING WINDING-DRUM FRICTION CLUTCHES. ROBERT H. BEAUMONT, Radnor, Pa., assignor to R. H. Beaumont Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 16, 1927. Serial No. 168,491. 1 Claim. (Cl. 254—185.)



Mechanism for operating two winding drums comprising power mechanism, two friction clutches having positively driven elements and movable elements for respectively connecting the drums with the power driven elements, power transmission mechanism connected with the two movable elements and movable in opposite directions to cause the engagement of one clutch and the release of the other clutch, and a revesible motor having connection with said power transmission mechanism to move it in either direction, said power transmission mechanism including a friction slip drive device, and said motor being constructed and arranged to stall when said power transmission mechanism reaches its limit of movement in either direction and the motor thereby serving to continue to apply force which, limited by the friction drive device, serves to hold the corresponding friction clutch in engagement and to avoid jamming it.

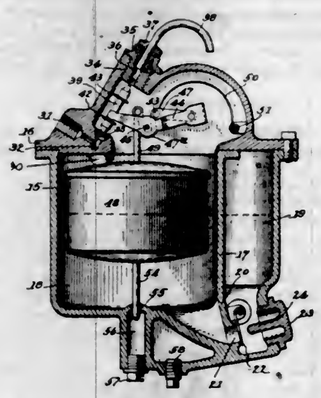
1,676,766. SIGNAL. WILLIAM F. BRETTSCHNEIDER, St. Paul, Minn. Filed Dec. 12, 1923. Serial No. 680,251. 6 Claims. (Cl. 177—327.)



5. A casing polygonal in cross section having windows positioned on at least three of the sides thereof, signals formed upon said windows, including a plurality of corresponding elements, one element at least partially embracing the other radially formed partition walls extending from said windows to the center of the casing to separate the elements of said signals and to form compartments communicating with corresponding elements of all of said signals and means within said compartments for simultaneously illuminating all of the corresponding elements connected with said respective compartments.

6. A casing polygonal in cross section, a plurality of windows positioned along at least three of the sides thereof, a letter L formed on each of said windows, a letter R formed on said windows and positioned in the vertexes of said letters L, upwardly inclined, radially extending partitions issuing from the lines of separation of the legs of said L's and said R's, radially extending vertically positioned walls issuing from the lines of division of said stems of said L's and said R's and from the corners of said casing, intersecting said partitions to form two compartments communicating with all of said R's and said L's and means within each of said compartments for simultaneously illuminating all of said L's or said R's.

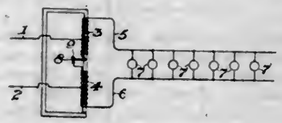
1,676,767. VACUUM TANK. ELMER G. BURNS, Los Angeles, Calif. Filed May 9, 1927. Serial No. 189,944. 6 Claims. (Cl. 103—236.)



1. A vacuum tank comprising a receptacle having a float chamber and a laterally disposed reservoir chamber, a port providing communication between the two chambers, a flapper valve controlling the port, a tubular and laterally disposed extension on the receptacle having a transverse opening adapted to receive the depending extension of a carbureter, a float in the float chamber, a cover for the receptacle having a fuel port, an air port and a suction port, a rod for the float, a lever mounted on the cover, a second lever fulcrumed on the first lever and connected to the float rod, a flat spring connected to the second lever at a point between its connections with the first lever and float rod, a stem having on one end a suction valve for the suction port and on the other end an air valve for the air port, flanges on the stem, and arms on the first lever disposed between the flanges to engage one or the other in moving the stem to actuate the valves.

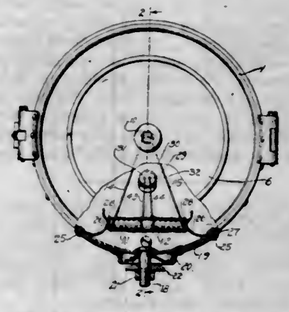
1,676,768. TRANSFORMER AND CIRCUIT. LEROY J. BUTTOLPH, Grantwood, N. J., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Original application filed Jan. 24, 1923, Serial No. 614,572. Divided and this application filed May 1, 1926. Serial No. 105,953. 2 Claims. (Cl. 171—119.)

1. In a system for controlling electrical apparatus in combination an auto-transformer having two coils which are electrically symmetrical, lead wires for the apparatus to be controlled, taps from the ends of the coils adapted to be connected to the apparatus leads, a switch



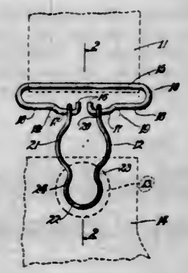
between the two coils, taps from points intermediate the ends of each coil for connection with suitable feed mains.

1,676,769. AUTOMOTIVE HEAD LAMP. WILLIAM B. CHURCHER, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 30, 1926. Serial No. 119,764. 7 Claims. (Cl. 240—41.)



1. In a head lamp, the combination with a casing, a lamp bulb having a plurality of filaments, a resistance unit comprising a pair of resistances, a body stiffener element contacting with a portion of the walls of the casing, securing means adapted to rigidly secure the stiffener element to the inner wall of the casing and supporting means for said unit scured in place within the casing by said securing means, a connection terminal means adapted to make electrical connection with circuit conductors exterior of the casing, said terminal means being carried in a wall of the casing and adapted to extend electrical connections therethrough, and electric circuit conductors interconnecting the said resistances with the said filaments and the said terminal means.

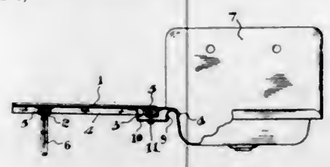
1,676,770. GARMENT LOOP. JOHN M. CLARK, Detroit, Mich., assignor to Universal Button Fastening and Button Company, Detroit, Mich., a Corporation of Michigan. Filed May 13, 1922. Serial No. 560,615. 6 Claims. (Cl. 24—246.)



1. A device of the class described, comprising in combination, a strap loop formed of a single piece of wire bent into loop form with the end portions thereof

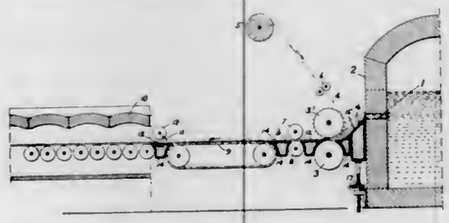
inclined to the loop, and a button loop formed of a piece of wire, the ends of which are hinged respectively to said inclined end portion of said strap loop.

1,676,771. SINK DRAINAGE BOARD. FREDERICK SINCLAIR CORRIGAN, Toronto, Ontario, Canada, assignor, by mesne assignments, to General Steel Wares Limited, Toronto, Canada. Filed Oct. 30, 1926, Serial No. 145,287, and in Canada Oct. 29, 1926. 5 Claims. (Cl. 141—11.)



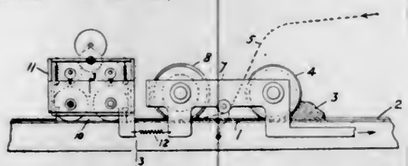
1. A sheet metal drainage board for sinks having a plurality of pairs of alined metal loops permanently secured to its under surface; wooden cleats adapted to be slipped into and held by said loops; a clamp member; a screw for securing the clamp member to one of said cleats with one end engaging under the edge of a sink on which one end of the board is rested; a wall bracket adapted to be secured to a wall; and screws for removably securing the wall bracket to the other cleat.

1,676,772. PROCESS AND APPARATUS FOR MAKING SHEET GLASS. WALTER COX and ARNO SHUMAN, Philadelphia, Pa., assignors to Pennsylvania Wire Glass Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Jan. 12, 1921. Serial No. 436,635. 8 Claims. (Cl. 49—17.)



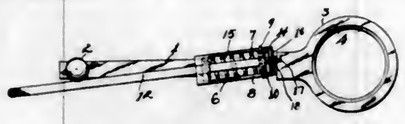
1. Apparatus for making wire glass comprising the combination of wire mesh embedding rolls of which one is ribbed and the other is smooth, a weir provided in the glass tank furnace wall and discharging between the embedding rolls, and means for continuously passing wire netting or mesh between the embedding rolls along with the stream of glass flowing from the tank, substantially as described.

1,676,773. METHOD OF MAKING CORRUGATED WIRE GLASS. WALTER COX and ARNO SHUMAN, Philadelphia, Pa., assignors to Pennsylvania Wire Glass Company, Philadelphia, Pa., a Corporation of New Jersey. Filed July 16, 1927. Serial No. 206,215. 2 Claims. (Cl. 49—86.)



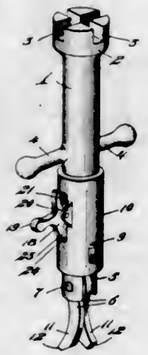
1. The method of making corrugated wire glass which comprises continuously rolling a lengthwise corrugated sheet of glass, initiating the corrugation of a flat wire mesh by securing its end in the first formed corrugations of the sheet, permitting the flat portion of the mesh to assume corrugated form above the corrugated sheet as the rolling progresses, embedding the corrugated wire mesh in corrugated form into the corrugated sheet, and pressing the roughened surface of the sheet though which the wire passed.

1,676,774. BRAKE-TESTING GAUGE. WESLEY M. CRONK, Burlingame, Calif., assignor, by direct and mesne assignments, to Master Products Corporation, San Francisco, Calif., a Corporation of California. Filed Oct. 6, 1926. Serial No. 139,897. 5 Claims. (Cl. 265—1.)



1. A brake testing gauge for vehicles comprising a lever having a handle at one end and means at the other end to so engage the vehicle axle as to prevent outward movement of the lever with reference thereto, a pivotally mounted member carrying a rod having a hook on one end thereof capable of engaging the periphery of the wheel, a spring gauge on the other end of said rod in said member to indicate the compression of the spring when an attempt is made to turn the wheel by lifting upon the lever.

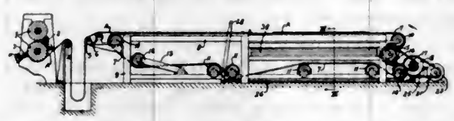
1,676,775. PLUMBER'S TOOL. THOMAS P. DOHERTY, Providence, R. I. Filed July 26, 1927. Serial No. 208,531. 4 Claims. (Cl. 81—72.)



1. A device of the character described comprising a shaft provided with a handle and having one end thereof slotted, elbow shaped arms pivotally supported by said shaft within the slotted end thereof at points adjacent to the elbows, a sleeve slidably mounted on said shaft, and provided with oppositely positioned openings for the reception of the outturned ends of said arms which extend inwardly of the shaft whereby the outturned ends of said arms on opposite sides of their pivot points are withdrawn within the circumference of said sleeve when the sleeve is in retracted position and forced outwardly beyond the circumference of said sleeve when the sleeve is forced downwardly upon the shaft.

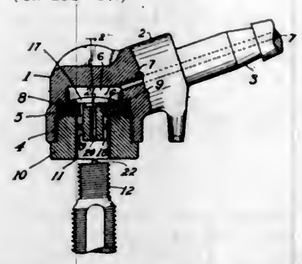
1,676,776. METHOD OF AND APPARATUS FOR MAKING RUBBER TUBES. JOHN A. FLEISCHLI, Clayton, Mo., assignor to Cupples Company, Manufacturers, St. Louis, Mo., a Corporation of Missouri. Filed July 27, 1925. Serial No. 46,239. 18 Claims. (Cl. 154—8.)

1. In the art of making rubber tubes, the method which comprises constantly passing plastic rubber between constantly rotating rolls to form a strip of sheet rubber, intermittently advancing the free end portion of said strip, cutting said strip into sections of the length



desired for the tubes, and then forming the tubes by rolling the sections around mandrels transversely of the direction in which the strip is fed.

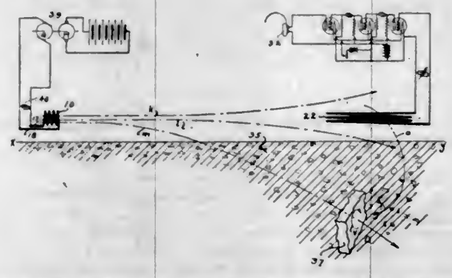
1,676,777. INFLATING VALVE. FRED E. HANSEN, Lakewood, Ohio, assignor to The Hansen Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 26, 1924. Serial No. 758,057. 3 Claims. (Cl. 284—17.)



1. An inflating valve for tires comprising a chambered head having a bore adapted to receive slidably the end portion of a valve stem, a soft washer inside said head and having an aperture registering with said bore, and a one piece, all metal valve member having a shank traversing said aperture, a head overlying said washer and a flange underlying said washer, said shank having a length between said head and said flange exceeding the thickness of said washer by approximately the distance between the head and chamber wall when the valve is closed, and having a passageway therein, said head being larger than said bore and said flange being smaller than said bore and slidable therein.

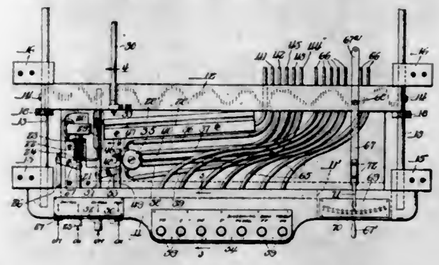
1,676,778. [WITHDRAWN.]

1,676,779. DEVICE FOR UNDERGROUND PROSPECTING. SHIBL HERR, Crawfordsville, Ind. Filed Dec. 20, 1926. Serial No. 155,837. 4 Claims. (Cl. 175—182.)



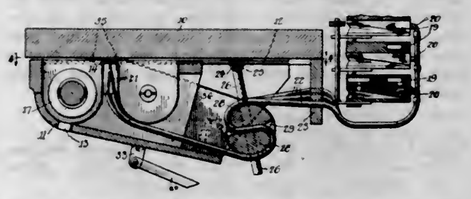
1. The method of prospecting underground regions from the surface of the earth to locate buried objects, which comprises producing a magnetic field by passing an electric current through a primary coil set up in an initial position; setting up a detecting coil at a substantial distance from the primary coil and in a position relative to said primary coil where the minimum current will be induced in the detecting coil; of transferring said primary coil and said detecting coil to points in the territory to be prospected, the said two coils being set up at each point in the same relative positions one in respect to the other and at the same distance apart as was determined by the initial minimum setting; and of observing the current output at each setting.

1,676,780. CONTROL-CARRYING SLIDE FOR SELF PLAYING MUSICAL INSTRUMENTS. EDMOND A. HUSEBY, Chicago, Ill. Filed May 15, 1926. Serial No. 109,293. 10 Claims. (Cl. 84—49.)



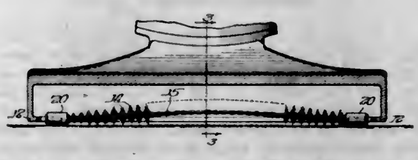
1. The combination with the key-bed of a mechanical playing instrument, and a tray slidably mounted beneath said bed, of an electric circuit switch mounted on said tray, and means for operating said switch projecting through the front edge of said tray.

1,676,781. TRACKER-TUBE SUPPORT FOR PLAYER PIANOS. EDMOND A. HUSEBY, Chicago, Ill. Filed Feb. 5, 1927. Serial No. 166,090. 10 Claims. (Cl. 84—57.)



1. In a device of the character described, the combination with a key bed, and a player action in rear of said key bed, of a drawer slidable beneath the key bed, a tracker bar in said drawer, tracker tubes connecting said tracker bar with said player action, and a tracker tube supporting reel suspended from said key bed.

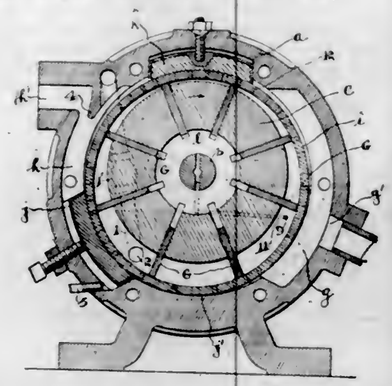
1,676,782. BRUSH MOUNTING FOR SUCTION CLEANERS. BENJAMIN B. JACKSON, Delphi, Ind., assignor, by mesne assignments, to The Marvel Company, Hammond, Ind., a Corporation of Indiana. Filed Apr. 15, 1922. Serial No. 552,909. 1 Claim. (Cl. 15—8.)



In a suction cleaner, the combination with the nozzle thereof, of a rotatable brush extending over the length of said nozzle, said brush having a flexible axle supported in the nozzle only at its ends, whereby said brush

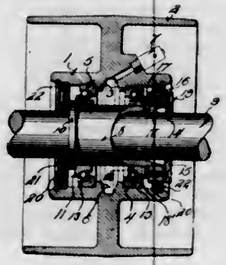
is yieldingly supported in the nozzle for lateral movement between its ends to be pressed and maintained by the weight of the nozzle in operative engagement with the surface to be cleaned, said brush having its greatest diameter at its mid-portion and tapering from said mid-portion to its ends, and means for driving said brush.

1,676,783. ROTARY PUMP. ROBERT W. KING, Toronto, Ontario, Canada. Filed Oct. 11, 1926. Serial No. 141,004. 14 Claims. (Cl. 230—152.)



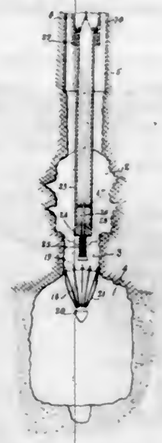
1. A rotary engine or pump comprising a cylinder casing; a rotary piston eccentric to the cylinder; a plurality of blades slidable in the piston; suction and compression chambers formed at opposite sides of the cylinder and of less width than that of the cylinder; and an unjournalled floating ring of the full width of the cylinder and interposed between the cylinder and piston, the ring being free to rotate with the piston and blades and having perforations located only intermediate the ends thereof for communication with the suction and compression chambers, the area of the perforations being proportioned to cause a frictional pressure of the ring against the casing, due to the flow of fluid, less than the frictional driving pressure of the blades against the ring.

1,676,784. LINE-SHAFT BEARING. HERMANN KRAUSE, Menomonee Falls, Wis. Filed Mar. 26, 1924. Serial No. 701,964. 2 Claims. (Cl. 308—190.)



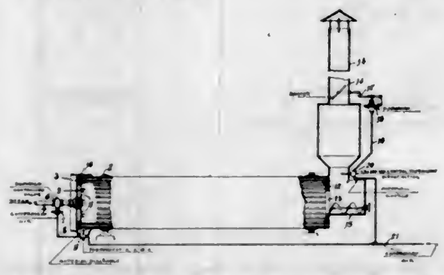
1. A bearing for a shaft comprising an outer casing having oppositely directed raceway rings, a sleeve mounted upon said shaft and having a flange at one end, a race way ring carried by said sleeve and abutting said flange, a second race way ring carried by said sleeve, the rings carried by said sleeve being mounted in proximity to said first mentioned rings, balls located between adjacent rings, said sleeve being externally threaded at the end remote from said flange and having a tapered cut out portion contracting to said shaft, a nut screwed upon said externally threaded end for adjusting the last mentioned raceway ring, a washer having a tapered collet fitted within said tapered cut out, and screws for drawing said washer towards said nut to cause said collet to grip said shaft, whereby the screws may be adjusted without rotating said nut.

1,676,785. METHOD OF AND APPARATUS FOR GROUTING THE WALLS OF AN OIL WELL. JAMES O. LEWIS, Tulsa, Okla. Filed Oct. 20, 1924. Serial No. 744,608. 4 Claims. (Cl. 166—1.)



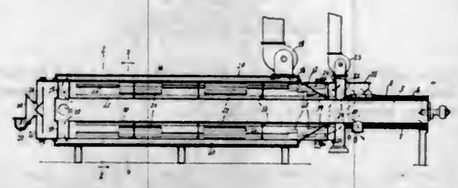
4. In a grouting apparatus for oil wells, the combination of an air conveying tubular member, means to apply compressed air thereto, the lower end of said tubular member being opened and the upper end sealed, means to support said tubular member in different positions in the well, a lowering cable passing through said tubular member and means to provide an air tight stuffing box at the top of the tubular member to accommodate the passage of the lowering cable, a bail for containing coating material, a pressure valve at the bottom thereof adapted to support the material in the bail which is lowered by the lowering cable within the tubular member until air pressure behind the material in the bail achieves the predetermined point for opening the valve and discharging the material, and means for joining the upper end of the bail with the tubular member to prevent the escape of air.

1,676,786. DRIER CONTROL. ADOLPH W. LISSAUER, Louisville, Ky., assignor to Louisville Drying Machinery Co., Inc., Louisville, Ky., a Corporation of Kentucky. Filed Apr. 17, 1926. Serial No. 102,679. 7 Claims. (Cl. 34—6.)



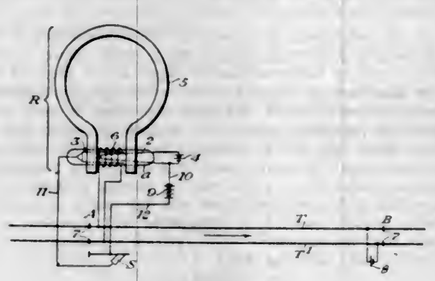
6. In a method of drying material in a drier, steps which consist in circulating atmospheric air through the drier to carry off the products of evaporation and varying the volume of the air circulated in the drier by the temperature of the products of evaporation carried off by the air.

1,676,787. HEAT EXCHANGER. ADOLPH W. LISSAUER, Louisville, Ky., assignor to Louisville Drying Machinery Co., Inc., Louisville, Ky., a Corporation of Kentucky. Filed Mar. 31, 1927. Serial No. 179,754. 7 Claims. (Cl. 257—90.)



3. In a heat exchanger, a shell mounted to rotate, a stationary casing about the shell forming therewith an annular chamber, means carried by the shell and dividing the annular chamber into a plurality of longitudinal sections, means for supplying products of combustion to the sections of the annular chamber, and means for removing the products of combustion from the sections successively.

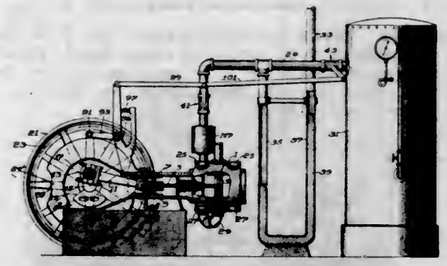
1,676,788. RAILWAY SIGNALING. SAMUEL M. LUCAS, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Original application filed Apr. 18, 1922, Serial No. 555,339. Divided and this application filed Jan. 5, 1925, Serial No. 617. Renewed Feb. 11, 1927. 12 Claims. (Cl. 246—41.)



1. A railway signaling system comprising a thermionic tube, a circuit including a source of current and said tube, a signal controlled by said circuit, a magnet for opposing the flow of current through said tube, a winding or opposing the effect of said magnet on the flow of current through said tube, and train-controlled means for supplying current to said winding.

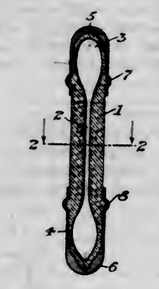
1,676,789. COMPRESSOR AND PUMP. CHARLES H. LUSK, Newton, Mass. Filed Sept. 19, 1923. Serial No. 663,594. 9 Claims. (Cl. 230—236.)

1. The combination with an air compressor, of a receiver for the compressed air, a pipe extending from the air compressor to the receiver, a tube communicating with said pipe at a point between the compressor and the receiver and containing a mercury column adapted to be elevated on strokes of the compressor, thereby to store up the velocity energy of the air set in motion by the strokes of the compressor, a valve operable to permit compressed air to flow from the compressor into the pipe and tube, or to prevent compressed air from flowing into the pipe and tube, a valve operable to permit the compressed air to be forced by the mercury column into the receiver, or to prevent



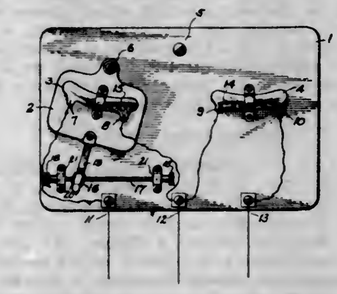
the compressed air from being forced by the mercury column into the receiver, and means automatically to operate said valves.

1,676,790. ELECTRIC LAMP. ROY D. MAILEY, East Orange, N. J., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed Apr. 18, 1922. Serial No. 555,338. 6 Claims. (Cl. 176—126.)



6. An electric lamp comprising a section of glass tubing and terminals on the ends thereof of shock absorbing conducting material and a non-soiling coating on said material.

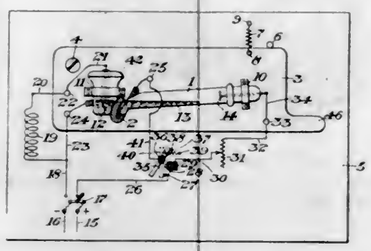
1,676,791. SWITCHING APPARATUS. ROY D. MAILEY, East Orange, N. J., assignor to Cooper Hewitt Electric Company, a Corporation of New Jersey. Filed Oct. 12, 1923. Serial No. 668,092. 1 Claim. (Cl. 200—152.)



In an electric circuit making and breaking apparatus, in combination, a pivoted panel, a mercury switch mounted thereon, a second panel pivotally mounted on

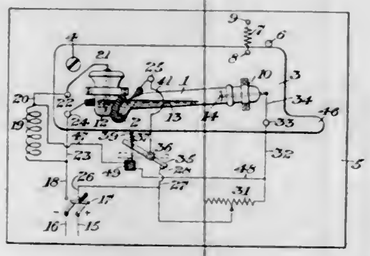
the first panel, a mercury switch mounted on said second panel, and means connected to the two panels for adjustably moving the second mercury switch with respect to the first.

1,676,792. VAPOR ELECTRIC LAMP. ROY D. MAILEY, East Orange, N. J., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed Jan. 17, 1924. Serial No. 686,704. 5 Claims. (Cl. 176—45.)



1. In combination with an electric vapor arc device having a positive temperature coefficient of resistance, terminal electrodes therefor, an electric heater connected through a switch across said electrodes, means for starting current flow through the device when connected to a current source, and means responsive to flow of starting current in said device for closing said switch and for opening said switch upon the attainment of predetermined or normal current conditions in said device.

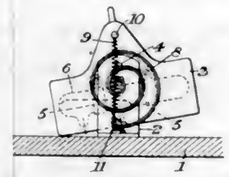
1,676,793. ELECTRIC VAPOR LAMP. ROY D. MAILEY, East Orange, N. J., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed Feb. 1, 1924. Serial No. 689,983. 8 Claims. (Cl. 176—45.)



1. The method of starting and operating an electric device of the character described which consists in passing current through said device and through a source of heat therefor, and availing of the change of potential across the terminals of the device to cause the interruption of current to the heater when the device has attained its normal operating temperature.

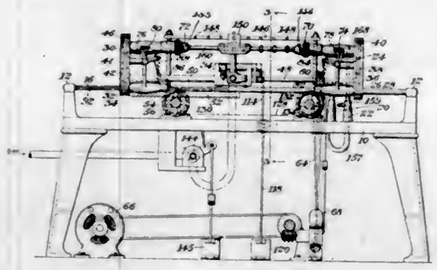
1,676,794. THERMOSTATICALLY-CONTROLLED SWITCH. ROY D. MAILEY, East Orange, N. J., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed May 5, 1925. Serial No. 28,169. 3 Claims. (Cl. 200—138.)

1. In combination with a switch of the mercury tube type mounted for pivotal movement, a flat spiral bimetallic element mounted in a plane parallel to the plane of movement of said switch, fixed at its inner end near the pivotal mounting of said switch, and having its other end terminating at a point substantially diametrically opposite the pivot of said switch and capable of movement between given limits in response to changes in temperature over a given range, and a resilient connection



from said other end of the thermostat to a point on said switch diametrically opposite said other end with respect to the pivot of said switch.

1,676,795. GLASSWORKING MACHINERY. ROY D. MAILEY, East Orange, and WILFORD J. WINNINGHOFF, South Orange, N. J., assignors to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed Feb. 26, 1927. Serial No. 171,173. 2 Claims. (Cl. 49—7.)

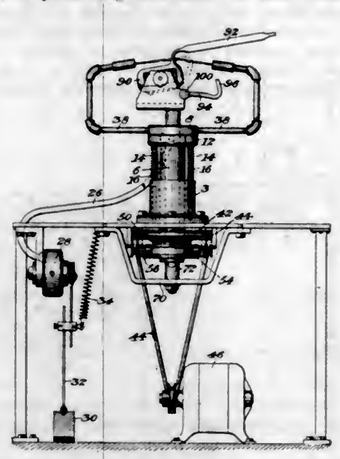


1. In machinery for working hollow glassware, a set of gas jets projecting toward and movable along a given line, a pair of work holders for supporting a piece of hollow glassware along said line, one of said work holders being movable toward and from the other, a mold movable into operative relation to a piece of work held by said work holders and mounted to move with said jets for movement therewith along said line and a positioning means comprising a latch member having a plurality of latching parts arranged along said line and a cooperating latch member carried by said mold and movable along first said latch member into and out of operative relation to said latching parts.

1,676,796. GLASSWORKING MACHINERY. GEORGE A. MILLAR, Ridgefield Park, N. J., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed Jan. 1, 1927. Serial No. 158,432. 7 Claims. (Cl. 49—7.)

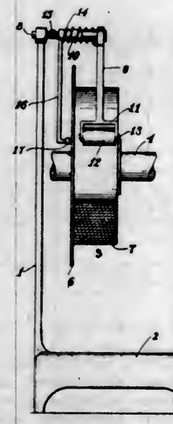
1. In a glass working machine, in combination, a member mounted to be rotatable about and slidable along a given axis, a second member having a face against a face of said rotatable member, means for holding said second member against rotation with said rotatable member and for holding said faces in predetermined relation, one of said members having an arcuate channel between said registering faces and each of said members having an opening therethrough registering with said channel, a gas jet mounted to said rotatable member and connecting with the opening therethrough and a work holder in operable relation to said gas jet.

7. In a glass working machine, in combination, a guideway, a hollow cylinder rotatable in said guideway and movable longitudinally therein, a collar about said cylinder and movable longitudinally therewith, means for holding said collar against rotation and for holding it in predetermined longitudinal relation to said cylinder, the adjacent faces of said collar and said cylinder having sliding contact with each other, one of said members having an annular channel extending between said adjacent faces and each of said members having an opening therethrough extending from the outside and registering with said channel, a tube connecting with the opening in said collar and permitting movement of said collar longi-



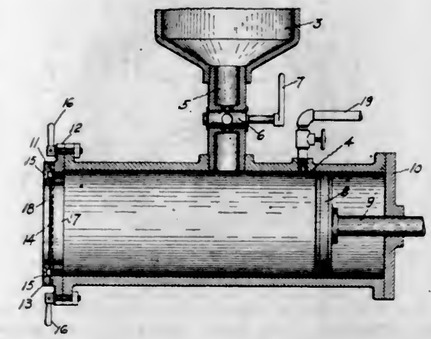
tudinally with said cylinder, a gas jet carried by said cylinder and connected to the opening therethrough and projecting inwardly toward the center of rotation of said cylinder and a work holder in operable relation to said gas jet, means for the application of power to rotate said cylinder about its axis and to slide it along its axis, and a support for said work holder extending longitudinally through said hollow cylinder.

1,676,797. TENSION REGULATOR. ALEXANDER NYMAN, Tuckahoe, N. Y., assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 18, 1925. Serial No. 76,266. 5 Claims. (Cl. 242—75.)



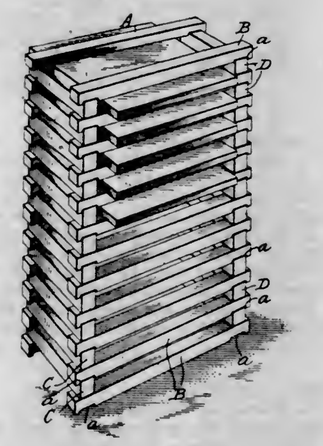
2. A tension device comprising a reel, a friction member to engage said reel, an arm rigid with said member to rest upon the surface of a strip wound upon said reel, and a spring normally extending to urge said arm and said member toward the center of said reel.

1,676,798. METHOD OF MAKING ARTICLES FROM A FIBROUS COMPOSITION. WILLIAM G. O'BRIEN, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 16, 1922. Serial No. 588,666. 3 Claims. (Cl. 92—59.)



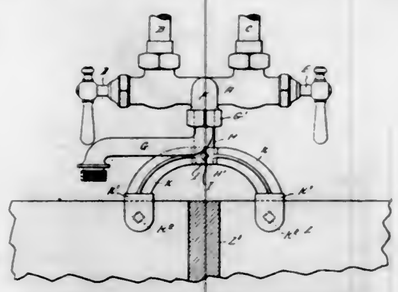
2. The method of making articles from a fibrous composition which consists in precipitating rubber upon a quantity of fibers, forcing the liquid in which the coated fibers are suspended through a screen of sufficiently small mesh to prevent the passage therethrough of the particles, and subsequently causing a rubber precipitant to be moved through said screen.

1,676,799. MEANS FOR SUPPORTING AND EXPOSING CERAMIC PRODUCTS IN THE COURSE OF THEIR PRODUCTION. THEODORE C. PROUTY and WILLIS OSWALD PROUTY, Hermosa Beach, Calif., assignors to American Encaustic Tiling Company, Ltd., New York, N. Y., a Corporation of New York. Filed Apr. 2, 1927. Serial No. 180,402. 23 Claims. (Cl. 25—153.)



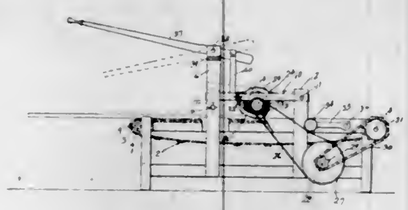
1. A device for supporting ceramic products and exposing the same to heat, comprising a series of members positioned in relatively spaced order and constituting a rigid unitary structure affording a series of supporting surfaces arranged one above the other.

1,676,800. COMBINATION FAUCET FOR LAUNDRY TUBS AND SINKS. PETER R. RICHARDS and LEON BLOCH, Cleveland, Ohio, assignors to The Republic Brass Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 14, 1924. Serial No. 692,648. 1 Claim. (Cl. 4—193.)



As a new article of manufacture a faucet for tubs and sinks comprising a body portion having inlet openings and a centrally arranged discharge spout projecting forwardly and downwardly from the central forward portion of said body, said body portion having a downwardly extending member arranged in line with the body portion and to the rear of the forwardly and downwardly extending spout, the lower end of said depending member being tapered and a support into which said tapering end fits together with means for securing the same.

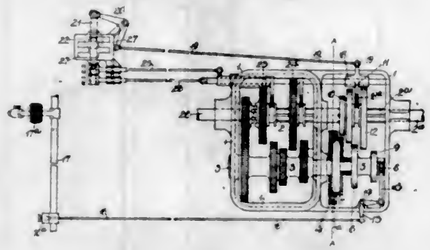
1,676,801. FRUIT-TRAY CLEANER. JOHN W. ROBINSON, Woodland, Calif. Filed June 1, 1926. Serial No. 112,788. 3 Claims. (Cl. 15—56.)



1. A machine for cleaning fruit trays comprising a frame, a conveyor for moving the fruit trays along the frame, a rotary brush, means for vertically adjustably supporting the brush above the conveyor in position to engage the fruit trays as the latter are moved past the brush by the conveyor, means for rotating the brush and conveyor, an operating lever pivoted on the frame and operatively connected with the adjustable brush support, an adjustable stop member on the frame with which said brush support engages and shoes carried by the brush support and arranged to engage the end walls of the tray.

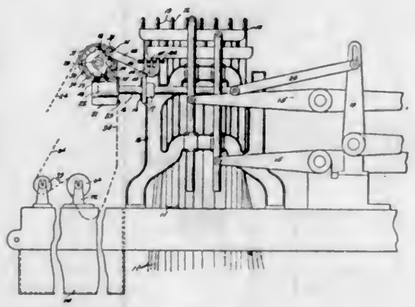
1,676,802. CHANGE-SPEED GEARING. PERCY OCTAVIUS ROWLANDS, Birmingham, England. Filed May 8, 1925, Serial No. 28,920, and in Great Britain May 20, 1924. 9 Claims. (Cl. 74—58.)

1. In change speed gearing, a gear set of the selective change speed type wherein normally-disengaged parts are selectively brought into engagement for power transmission activity at desired speeds, clutch mechanism including a pedal for controlling the transmission of power, manually-operable mechanism for controlling the engagement and disengagement of the normally-disengaged parts, said lattter mechanism including a rock shaft mounted for axial and oscillating movements, operable connections between the rock shaft and certain of the normally-disengaged parts whereby axial movement of the rock shaft will select the parts to be engaged and oscillating movements of the rock shaft will complete engagement of the selected parts, and means for synchronizing the speed of the normally-disengaged parts about to be engaged for power transmission purposes, said means including disks having annular faces mounted respectively on driven and synchronizing shafts and adapted to provide power transmission between said shafts at different speeds by en-



gagement of normally-disengaged disk faces in pairs of which the faces of the pairs are carried by the respective shafts, operable connections between the disk arrangement of one of the shafts and the rock shaft for positioning the faces thereof relative to the companion faces of the pairs to locate the faces of the desired pair in relative position for engagement, operable connections between the clutch pedal and the disk arrangement of the other shaft to complete engagement of the positioned faces of a pair, and normally-disengaged connections between the synchronizing shaft and the gear set and adapted to be engaged by clutch pedal movement.

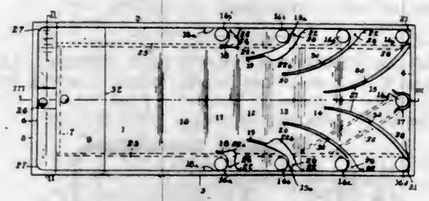
1,676,803. THREAD-CONTROL ATTACHMENT FOR LOOMS. ANTHONY C. P. RUSSEN, Edgewood, R. I. Filed June 5, 1923. Serial No. 643,488. 10 Claims. (Cl. 139—329.)



1. In a loom having thread controlling means, a rotatable drum, means for rotating said drum with a step by step movement comprising a toothed ratchet, a pivoted lever, a pawl carried by said lever adapted to engage the ratchet teeth, flexible means controlled by said drum for cooperating with the thread controlling means, means for moving the drum toward and from the thread controlling means, and means operated by said movement for swinging said lever to rotate the drum comprising a normally stationary, pivotally mount-

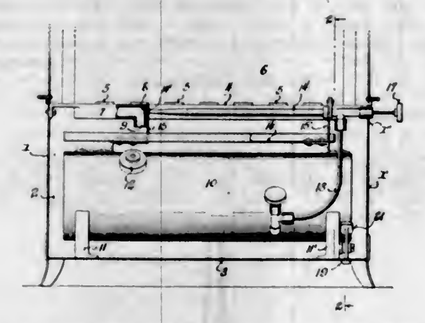
ed lever connected to the first lever by a pin and slot connection, and means for adjusting the second lever about its pivotal mounting to vary the effect thereof on the first lever.

1,676,804. GOLF-GAME APPARATUS. CLARENCE W. SCHECK, Pittsburgh, Pa. Filed Mar. 9, 1927. Serial No. 173,920. 8 Claims. (Cl. 273—36.)



1. A golf putting game apparatus comprising a playing surface provided with side and rear walls and having a level putting surface at one end a plurality of holes arranged along the side walls, and a baffle-guide extending outwardly from the side wall at the rear of each of said holes and extending forwardly toward the putting surface, said guides being progressively prolonged toward the rear end of the board.

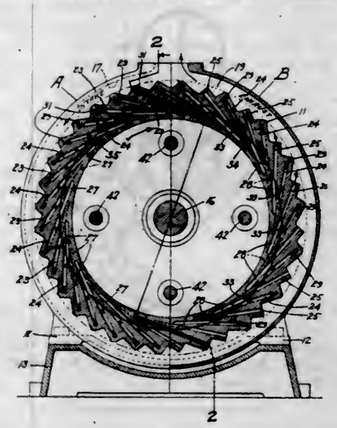
1,676,805. LIQUID-FUEL HEATING STOVE. ALEXANDER C. SLADKY and JOSEPH SLADKY, Milwaukee, Wis., assignors to National Enameling & Stamping Co., Inc., Milwaukee, Wis. Filed Dec. 1, 1927. Serial No. 237,004. 3 Claims. (Cl. 126—95.)



1. A stove body having a burner provided with a vapor inlet at one end and a removable fluid reservoir unit having a generator tube adapted to engage and interlock with the vapor burner inlet, and means carried by the reservoir for a second interlocking engagement with a stove body at a point remote from the first mentioned interlocking mechanism.

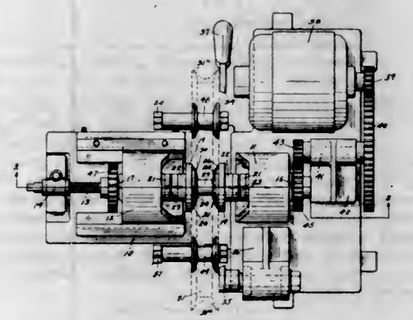
1,676,806. TURBINE. WILLIAM D. SMALLEY, Minneapolis, Minn. Filed June 1, 1925. Serial No. 34,095. 12 Claims. (Cl. 253—45.)

1. In a turbine the combination of a stator and a rotor having motive fluid containing chambers arranged in a plurality of planes around the axis of the turbine, said chambers comprising ports directing the flow of motive fluid in paths oblique to the periphery of the rotor, an annular channel supplying motive fluid to said containing chambers in limited volumes, means cooperating with said containing chambers to periodically open and close communication between said chambers whereby the motive fluid is intermittently transferred from one chamber to another and from one plane of chambers to another, and an annular exhaust channel



surrounding the last plane of chambers, the chambers in said last plane being alternately open and closed to the exhaust channel.

1,676,807. FLAP-TRIMMING MACHINE. HORACE D. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 17, 1925. Serial No. 44,379. 5 Claims. (Cl. 164—61.)

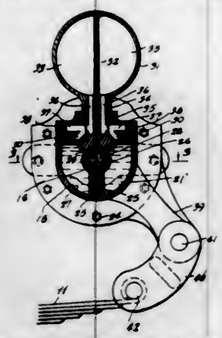


2. Apparatus of the class described, comprising spaced pairs of cooperating rotary shearing knives, a work-supporting roller removably mounted between one set of corresponding knives of each pair, said roller being formed to support material between said pairs of knives, a work-pressing roller for spreading the sides of the material into shearing relation to said cooperating knives, and means for driving the knives and feeding the material therebetween.

1,676,808. SHOCK ABSORBER FOR MOTOR VEHICLES. JAMES HENRY TAYLOR, Devon, Conn., assignor of one-half to William T. Teeden, jr., Devon, Conn. Filed Sept. 29, 1927. Serial No. 222,761. 7 Claims. (Cl. 188—89.)

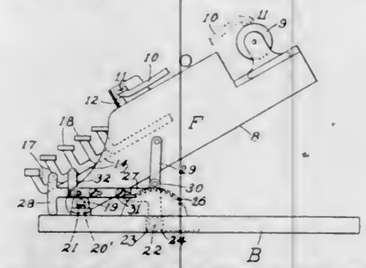
1. In a shock absorber for vehicles, a body member having a chamber for holding a liquid, a division member in said chamber and dividing it into two separate compartments, said members being mounted for relative

turning movements, separate air chambers connected to said compartments respectively at the upper portions thereof, means whereby one of said members may be



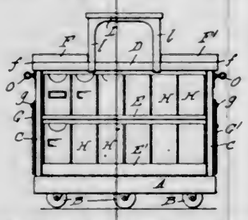
secured to some stationary part of the vehicle, and means whereby the other member may be secured to the vehicle spring or bumper.

1,676,809. TYPEWRITING MACHINE. RICHARD W. UHLIG, Newark, N. J., assignor to Albert Voigt, Brooklyn, N. Y. Filed Feb. 21, 1925. Serial No. 10,750. 11 Claims. (Cl. 197—186.)



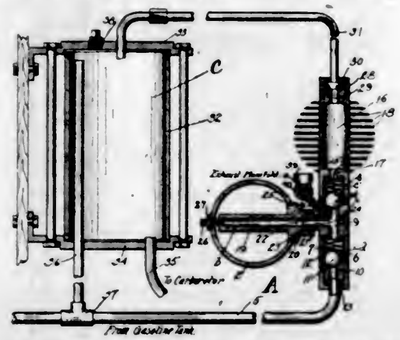
1. The combination of a writing machine, means to pivotally support the machine forwardly of its transverse center to tilt the rear portion of the machine upward at an oblique angle to the horizontal, a pivotally supported lever having an operative connection with the machine and operative to adjust the machine on its pivotal support from a horizontal position to variable angular position relative to the horizontal, a fixed notched sector, and a detent carried by the lever to engage a notch of the sector to releasably retain it in adjusted position.

1,676,810. POSTING BUS OR TRUCK. CHARLES B ULRICH, Jamestown, N. Y., assignor to Art Metal Construction Company, Jamestown, N. Y. Filed Apr. 23, 1926. Serial No. 104,111. 13 Claims. (Cl. 211—135.)



8. A posting bus having a top provided at opposite ends with extensions hinged to the top and adapted to swing outwardly to form continuations thereof and to swing inwardly and rest upon the upper surface of said top, said top and extensions being adapted to support record trays, a posting board movable over said top and extensions thereof and over record trays supported thereon and including legs extending in proximity to the edges of said top and extensions, the opposite edges of the top and extensions being turned downwardly and inwardly toward each other, the lower ends of the legs of said posting board having rollers adapted to roll on the in'urned portions of the edges of said top and extensions, and stops on said posting board adapted to engage said extensions when the same are swung inwardly above said top, to limit the movement of said posting board on said top.

1,676,811. INTERNAL-COMBUSTION ENGINE. LESTER E. VAN HISE, Los Angeles, Calif.; said Van Hise assignor to James V. Baldwin. Filed Sept. 3, 1921. Serial No. 498,434. 2 Claims. (Cl. 158—136.4.)



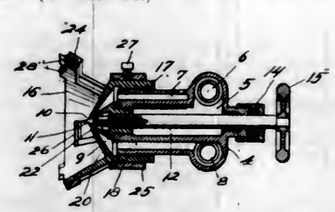
1. In combination with an internal combustion engine having an exhaust duct and a carburetor, a source of fuel supply therefor, a pumping bottle partly seated in said duct, a pipe connecting said source of supply to said bottle, a check valve in said pipe, a storage tank arranged adjacent said carburetor, a pipe connecting said bottle to said tank, an overflow pipe connected to the first named pipe between said check valve and said source of supply, and a pipe connecting said tank and carburetor.

1,676,812. BRUSH. EDWARD F. ASTLEY, Chicago, Ill., assignor to Humboldt M. Seyer, Chicago, Ill. Filed Mar. 7, 1927. Serial No. 173,378. 3 Claims. (Cl. 15—139.)



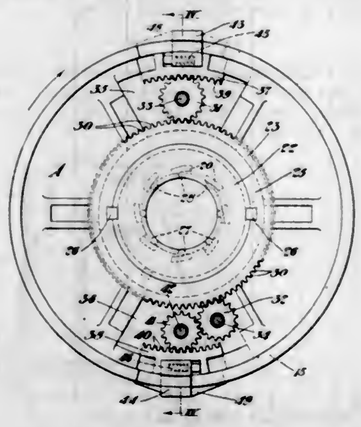
1. A brush comprising a hollow handle, providing a liquid receptacle, said handle being provided with an opening, a movable member projecting into said handle, a cup on the end of said movable member which normally closes the opening in the handle, an applying member extending into said movable member, the end thereof projecting from said cup, and an opening in said movable member for permitting the liquid in the receptacle to come into contact with said flexible member.

1,676,813. OIL BURNER. HARRY A. ATWATER, Kansas City, Mo., assignor to Combustion Equipment Company, Kansas City, Mo., a Partnership composed of A. W. Mackie, D. J. Mackie, R. V. Downs, and Harry A. Atwater. Filed Feb. 16, 1925. Serial No. 9,599. 1 Claim. (Cl. 158—76.)



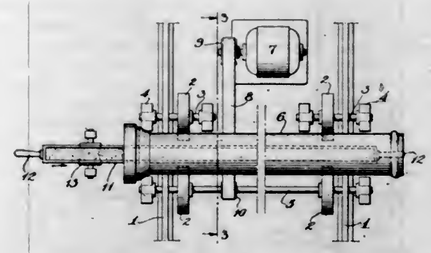
An oil burner having a fuel feeding passage provided with a discharge orifice, said burner also having a passage for feeding fluid under pressure to the exterior of said orifice, an air hood member having a casing portion adjustably mounted on said burner and formed with an inwardly projecting nozzle portion extending across said fluid pressure passage and provided with an orifice surrounding said fuel orifice, whereby the adjustment of said hood member regulates the rate of flow of said fluid under pressure past said fuel orifice, said hood member having openings for the discharge of air to and from the space immediately surrounding said orifices, and a shutter member carried by said hood member for regulating the movement of air through said openings.

1,676,814. CHUCK-OPERATING MECHANISM. JOSEPH E. BAINES, Pittsburgh, and JACOB P. BOSLE, Mount Oliver, Pa., assignors to National Tube Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Sept. 23, 1926. Serial No. 137,280. 6 Claims. (Cl. 279—72.)



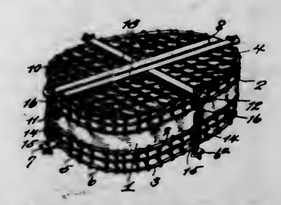
1. The combination with a pipe-working machine or the like having a positively rotated barrel, of a chuck comprising a main body portion secured to and adapted to rotate with said barrel, a cam-ring removably secured to and adapted to rotate with said body portion, a roller retaining ring mounted within said cam-ring and adapted to move relative thereto, said roller retaining ring being provided with a plurality of transverse slots, a plurality of roller-jaw members mounted in said slots, cam-faces on said cam-ring adapted to engage and control the movement of said jaws relative to the work, means for holding said roller-ring stationary while said cam-ring is rotated relative thereto thus causing said cam-faces to force said roller-jaws against the work, means for causing said roller ring to move relative to said cam-ring in the direction of rotation of said cam-ring to thereby permit said roller-jaws to move from the work, and selective means controllable from a point remote from said chuck for operating either of the above mentioned means.

1,676,815. METHOD OF AND APPARATUS FOR LINING PIPES. DOUGLAS T. BEATTY, Birmingham, Ala., assignor to Sand Spun Patents Corporation, Wilmington, Del., a Corporation of Delaware. Filed Mar. 5, 1926. Serial No. 92,451. 10 Claims. (Cl. 25—38.)



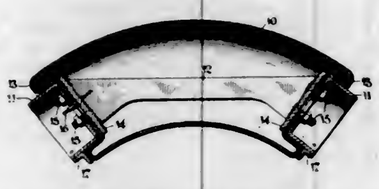
1. The step in the method of lining pipes or like hollow bodies with water mixed with plastic material, which consists in holding a mass of the material in contact with the pipe wall while imparting relative sliding movement to the mass and the wall to effect a conditioning of the wall by moisture and a rigid rubbing pressure or troweling action.

1,676,816. OPENWORK CONTAINER FOR TREATING MEATS. FREDERICK BRIGGS, Washington, D. C., assignor to Briggs Packing Co., Washington, D. C., a Corporation of Delaware. Filed Jan. 2, 1925. Serial No. 182. 1 Claim. (Cl. 100—57.)



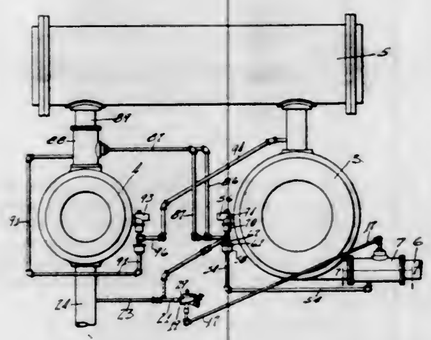
An open-work container for use in connection with meat treating processes consisting of opposed open-work sections, said sections having marginal flanges, said sections having reinforcing intersecting cross bars, one section being constructed in two parts hingedly united to facilitate the insertion of the contents in the container, contracting springs connected to the terminals of the cross bars of one section, and adjustable means connecting the other ends of the springs to the terminals of the cross bars of the other section, thereby creating constantly increasing tension between the two sections and exerting pressure upon the contents of the container.

1,676,817. SECTIONAL AIRBAG. RICHARD S. BURDETTE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed Apr. 10, 1925, Serial No. 22,205. Divided and this application filed Jan. 19, 1927. Serial No. 162,049. 10 Claims. (Cl. 18—45.)



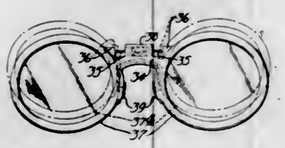
8. A vulcanizing core comprising a flexible elongate arcuate container and a metal end member so connected thereto that an annular fold of the container at least partially surrounds the end member.

1,676,818. PUMP-CONTROLLING MECHANISM. RUDOLPH CONRADER, Erie, Pa. Filed Jan. 17, 1924. Serial No. 686,771. 38 Claims. (Cl. 230—26.)



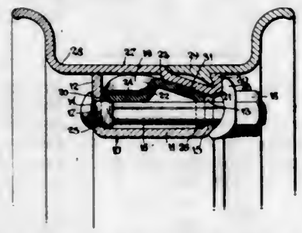
1. In a pump equipped with controlling mechanism, the combination of a pump cylinder; an intake unloader on the cylinder; a relief valve; a pilot valve responsive to intake pressure; and means controlled by the pilot valve controlling the relief valve.

1,676,819. EYEGLASSES. CLARENCE W. CUTLER, Chicago, Ill. Filed Oct. 1, 1927. Serial No. 223,372. 8 Claims. (Cl. 88—41.)



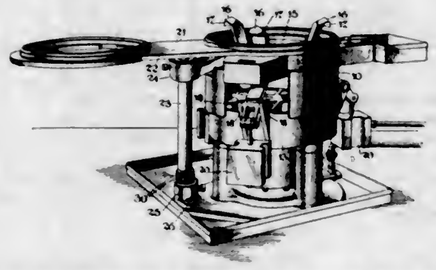
3. In eye-glasses; a frame; lenses supported by said frame; and means for attaching said frame and lenses to the face of a wearer, said means comprising a vacuum cup adapted to be placed against the face, and means for automatically slowly withdrawing air from said cup.

1,676,820. WHEEL MOUNTING. BURGESS DARROW, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 17, 1926. Serial No. 155,507. 3 Claims. (Cl. 301—18.)



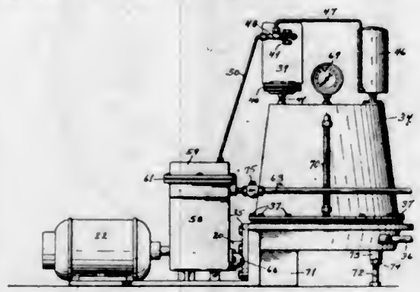
2. A device adapted to be disposed on a vehicle wheel felloe comprising parallel apertured side portions and a web portion connecting the side portions, one side of the web being tapered to provide a seat for a tire rim, the opposite side of the web having a depression formed in its surface.

1,676,821. PRESS. LESLIE E. DOUGHERTY, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 16, 1925. Serial No. 23,721. 12 Claims. (Cl. 18—2.)



1. In combination, a plurality of movable work supporting devices, sectional clamping members carried by the devices for engaging the work thereon, and a press for bringing together the sections of the clamping members as the first mentioned devices are brought successively into registering position with said press.

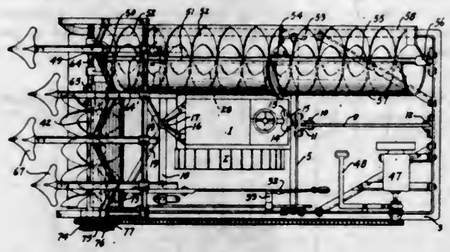
1,676,822. LIQUID-PUMPING APPARATUS. PAUL R. FINCH, Des Moines, Iowa, assignor to Alvah C. White, Des Moines, Iowa. Filed Feb. 18, 1927. Serial No. 169,225. 2 Claims. (Cl. 103—6.)



1. A pumping apparatus comprising a pressure tank, a pump for discharging liquid to said tank, an electric motor for operating said pump, an automatic switch

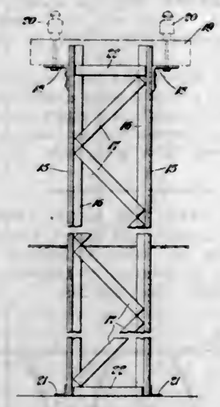
communicating with said tank and having connection to said motor for starting the pumping operation when the pressure in said tank falls below a certain minimum and for cutting off said motor when the pressure reaches a certain point, an air-measuring chamber adapted to receive a limited amount of atmospheric air and a valve device operable by said automatic switch for connecting said air-measuring chamber with the pump when the pumping operation is initiated and at the same time cutting off the supply of atmospheric air.

1,676,823. SNOW REMOVER. JOHN S. GAULT, Athol, Idaho. Filed Apr. 25, 1927. Serial No. 186,281. 3 Claims. (Cl. 37—42.)



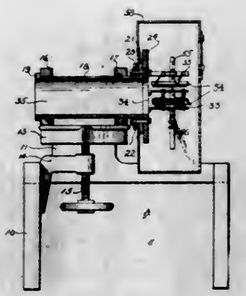
2. In a snow remover, the combination with an adjustable main frame having an adjustable, transversely arranged scoop and an open front-semi-cylindrical hood, of a screw conveyer above the scoop in operative arrangement with the hood, means for operating the screw conveyer, an upwardly inclined hood at one side of the frame having an open outer side and a screw conveyer in operative arrangement with the inclined hood, and driving connections between said screw conveyers.

1,676,824. BEAM OR POLE STRUCTURE. CHAUNCEY MARSH GOODRICH, Windsor, Ontario, Canada. Filed June 21, 1926, Serial No. 117,502, and in Canada Mar. 6, 1925. 1 Claim. (Cl. 189—24.)



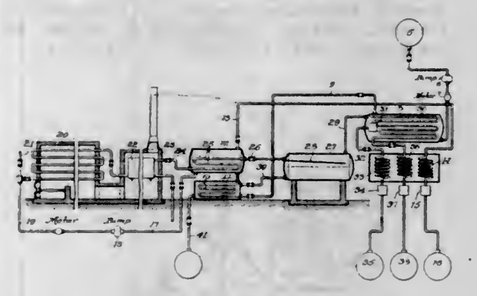
In a latticed beam or pole structure, the combination of a pair of opposed rolled metal T-members, and one-piece lattice-bars extending diagonally between and connecting said T-members, alternate ones of said lattice-bars extending in a direction opposite to the other bars said lattice-bars having diagonally slotted ends fitted over the stem portions of said T-members and permanently secured thereto.

1,676,825. WASHING MACHINE. JORGEN I. HAASE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 5, 1925. Serial No. 66,941. 6 Claims. (Cl. 15—40.)



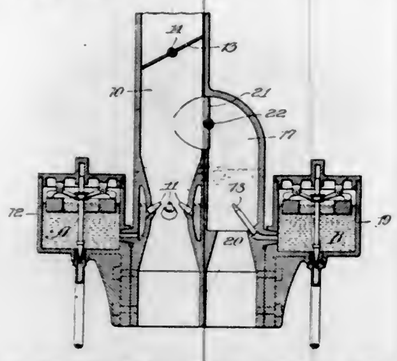
1. A hose washing machine comprising a support having a rotatable member mounted thereon, a plurality of normally contacting brushes resiliently secured to the rotatable member, and means on the brushes to effect their separation as a length of hose is introduced into the machine.

1,676,826. PROCESS OF TREATING OILS. FRANK A. HOWARD, Elizabeth, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed May 18, 1921. Serial No. 470,568. 3 Claims. (Cl. 196—51.)



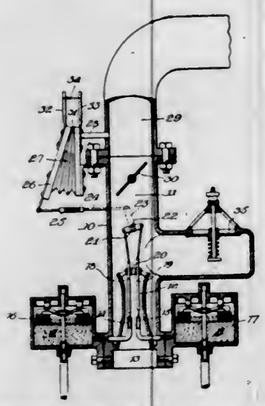
2. The method of treating oils to remove natural low boiling constituents therefrom and effect conversion of high boiling constituents of the residue to low boiling products which comprises heating residues to temperatures sufficient to effect conversion of high boiling constituents into low boiling products under pressure sufficient to maintain unchanged residue in the liquid phase, conveying the mixed products of conversion into a chamber at lower pressure, removing the products therefrom, passing fresh oil containing low boiling constituents into heat exchange relation with the conversion products at lower pressure removed from said chamber, and subsequently into heat exchange relation with the conversion products at higher pressure before they enter said chamber without at any time permitting admixture of said fresh oil and said conversion products, withdrawing the vapors evolved from said fresh oil and subjecting the residue to the hereinbefore described heat treatment.

1,676,827. METHOD OF AND APPARATUS FOR PREVENTING KNOCKING IN INTERNAL-COMBUSTION ENGINES. FRANK A. HOWARD, Elizabeth, and THOMAS R. PARKER, Jersey City, N. J., assignors to Standard Development Company, a Corporation of Delaware. Filed Jan. 7, 1922. Serial No. 527,665. 3 Claims. (Cl. 123—127.)



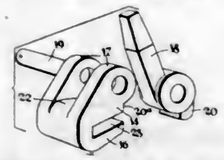
1. A carbureter for an internal combustion engine having a mixing passage, a low compression fuel jet delivering thereto, a throttle in said passage, a secondary passage leading to said mixing passage, a valve in said secondary passage, a jet in said secondary passage supplied from a source of high compression fuel and means operably connecting said valve and throttle so that said valve begins to open when the throttle is opened a predetermined amount.

1,676,828. METHOD OF AND APPARATUS FOR PREVENTING KNOCKING IN INTERNAL-COMBUSTION ENGINES. FRANK A. HOWARD, Elizabeth, N. J., and THOMAS R. PARKER, New York, N. Y., assignors to Standard Development Company, a Corporation of Delaware. Filed Jan. 7, 1922. Serial No. 527,666. Renewed Jan. 5, 1928. 11 Claims. (Cl. 123—127.)



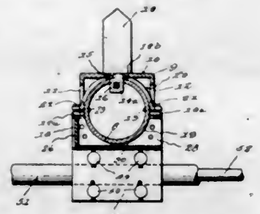
1. A carbureter for variable speed, variable load internal combustion engines comprising a mixing tube, a fuel nozzle delivering to said mixing tube and connected to a source of low compression fuel, a second fuel nozzle delivering to said mixing tube and connected to a source of high compression fuel and means responsive to the load condition of the engine for controlling the flow of fuel from said nozzles to cause the proportion of the high compression fuel in the mixture to increase as the compression pressure in the cylinder of the engine is increased.

1,676,829. TAPERED PLUG FOR CIRCULAR MANDRELS. JOHN R. HUNTER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 29, 1926. Serial No. 144,961. 6 Claims. (Cl. 18—6.)



5. The combination with a mandrel having a non-circular tapered opening in one end thereof, of a complementary plug for the opening, a recessed member for supporting the plug having pivotal connection therewith and a rail associated operatively with the recess in the member.

1,676,830. RAKING ATTACHMENT. LOUIS H. LARSEN, Englewood, N. J. Filed Oct. 18, 1926. Serial No. 142,274. 2 Claims. (Cl. 126—173.)

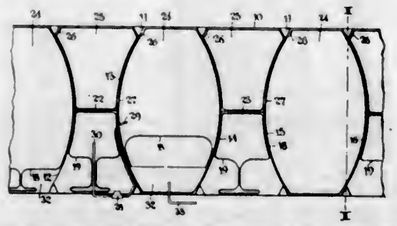


1. In a raking attachment, a rockable member presenting a flattened top portion having a plurality of apertures arranged therein, a plurality of teeth mounted in said rockable member, each of said teeth presenting a reduced portion defining a shoulder to abut the flattened top surface of said rockable member, and a rod removably securing said teeth to said member.

1,676,831. NOZZLE FOR THE PRODUCTION OF ARTIFICIAL FILAMENTS. LEONARD ANGELO LEVY, Cricklewood, England. Filed Aug. 16, 1926, Serial No. 129,660, and in Great Britain Sept. 14, 1925. 1 Claim. (Cl. 51—278.)

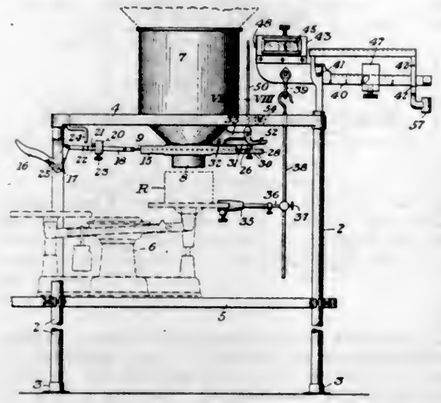
The method of determining the varying diameter of a tapered orifice, in a nozzle being ground, which consists in passing a fluid through said orifice under a predetermined pressure, and measuring the quantity of said fluid passed therethrough in a given time at predetermined intervals.

1,676,832. GAS CELL FOR RIGID AIRSHIPS. HERMAN RICHARD LIEBERT and EUGEN SCHOETTEL, Akron, Ohio, assignors to Goodyear-Zeppelin Corporation, Akron, Ohio, a Corporation of Delaware. Filed Sept. 13, 1927. Serial No. 219,238. 8 Claims. (Cl. 244—3.)



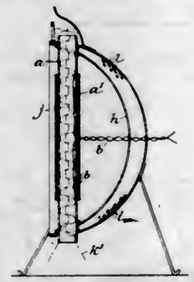
1. In an airship having inherently rigid main rings, a gas cell having gas under pressure therein, and a gas cell disposed contiguously on each side of the first-mentioned gas cell, and having gas therein under materially lower pressure than the gas in the first-mentioned gas cell.

1,676,833. DISPENSING APPARATUS. JOLLY L. MORRIS, Crafton, Pa., assignor of fifty-one one-hundredths to A. B. Coleman, Pittsburgh, Pa. Filed Mar. 18, 1924. Serial No. 700,019. 19 Claims. (Cl. 249—66.)



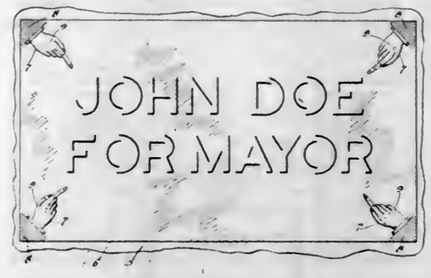
1. A dispensing device for use with weighing scales, including a hopper, a support therefor, a shutter for controlling the discharge from the hopper, manually operable means for opening the shutter, a trigger mechanism for holding the shutter open, means including a pivotal beam for actuating the trigger, and means for transmitting motion from a weighing scale to the beam.

1,676,834. ELECTRIC RADIATOR. THOMAS HORACE MCQUINN, London, England, assignor of one-third to Harry Morton Sargood, Toorak, Victoria, Australia. Filed Nov. 29, 1924, Serial No. 752,888, and in Great Britain June 17, 1924. 2 Claims. (Cl. 219—34.)



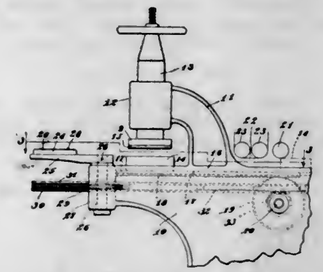
2. An electric radiator comprising a series of tubes of a refractory nature mounted vertically in a frame with their upper and lower ends open to the atmosphere, conductors of electricity applied to the external surfaces thereof, so that when an electric current is passed through the said conductors, the tubes are heated to a high degree so as to radiate heat by incandescence, and at the same time cause an upward current of air through said tubes, whereby the air in the room containing the radiator is heated by radiation and by convection currents, cones inserted in the bottom ends of the heating tubes to increase the velocity and turbulence of the air in its passage through said tubes, and a concave deflector arranged behind the heating tubes, and a deflector adjacent the upper ends of said tubes.

1,676,835. SIGN-SUPPORTING DEVICE. FRED A. OBERHEU, Detroit, Mich. Filed Nov. 8, 1924. Serial No. 748,654. 2 Claims. (Cl. 40—125.)



1. In combination, a poster or sign to be supported upon the inner side of a window pane, and a plurality of supporters each comprising a single thickness of thin sheet material spaced about and arranged within the periphery of the sign; the surfaces of said supporters next to the sign being stuck to the sign by an adhesive material, and each supporter comprising an attaching portion and a pointer portion extending therefrom toward the central portion of the sign; the exposed surfaces of the attaching portions of said supporters having adhesive coatings whereby they may be stuck to the window pane, to thereby support the sign, and the exposed surfaces of the pointer portions aforesaid having no coating of adhesive material upon them.

1,676,836. MACHINE FOR PRINTING OR EMBOSSING. SKIDMORE O'HARA, Waltham, Mass., assignor to O'Hara Waltham Company, Waltham, Mass., a Corporation of Massachusetts. Filed May 20, 1927. Serial No. 193,038. 6 Claims. (Cl. 101—41.)

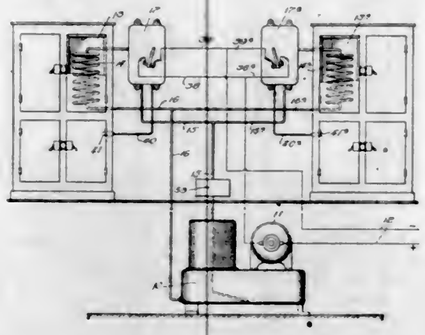


1. A machine of the character described having a vertically reciprocable printing member, a pivotally mounted work holder adapted to be turned on its pivot into and out of alinement with the printing member, a movable die having thereon the design to be printed and adapted to transfer the design to the printing surface when the die and the printing surface are brought into engagement with each other, means for moving the die into and out of alinement with the printing member and means for turning said work holder to move the work into and out of alinement with the printing member.

1,676,837. REFRIGERATING SYSTEM. FRANK W. SCHWINN, Chicago, Ill. Filed Nov. 16, 1925. Serial No. 69,344. 1 Claim. (Cl. 62—6.)

In a refrigerating system; a plurality of cooling compartments; a compressor; a condenser; a cooling coil in each compartment; connections between each cooling coil and the condenser; an expansion valve in connec-

tion with each cooling coil adapted to control the flow of refrigerant from the condenser to the cooling coil; thermostatically controlled means in connection with each expansion valve adapted to regulate the opening of said expansion valve in accordance with changes in temperature in the corresponding cooling compartment;

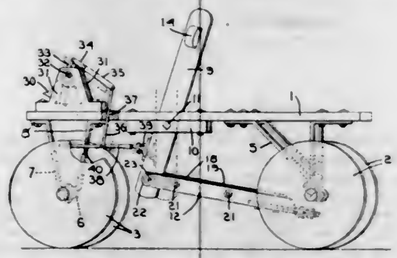


an electrical switch operated by each of said thermostatically controlled means adapted to be opened upon the expansion valve being closed and vice versa; a motor for driving the compressor; and electrical connections between said switch and the motor whereby said compressor will be stopped when all of said switches are open.

1,676,838. ACCELERATOR, METHOD OF VULCANIZING CAOUTCHOUC, AND PRODUCT THEREOF. LORIN B. SEBRELL, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 17, 1925. Serial No. 57,022. 9 Claims. (Cl. 18—53.)

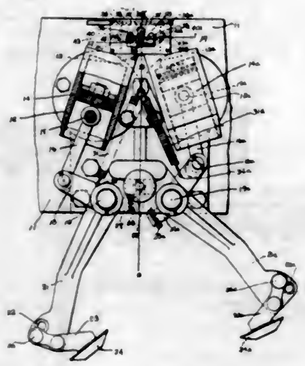
4. A method of vulcanizing rubber which comprises heating a vulcanizable rubber compound in the presence of the reaction product of a mixture of an unsaturated aldehyde, a saturated aldehyde and an amine.

1,676,839. TOY VEHICLE. JOHN SEPON, Chelsea, Mass. Filed May 27, 1927. Serial No. 194,675. 5 Claims. (Cl. 208—113.)



1. In a toy vehicle, the combination with a body, rear and front wheels on which the body is mounted, the rear wheels being driving wheels, a rear axle comprising two sections to which the driving wheels are rigidly secured, the inner ends of the sections being bent at right angles, a pin connecting said right angle portions, a lever pivoted to the body, a connecting rod pivotally connected to the lower end of the lever, said connecting rod being provided at its rear end with two plates each having a half round portion which embraces the pin, and a bearing sleeve interposed between the pin and the half round portions.

1,676,840. VALVE MECHANISM. JESS A. SHIVELY, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 12, 1926. Serial No. 101,346. 9 Claims. (Cl. 154—10.)

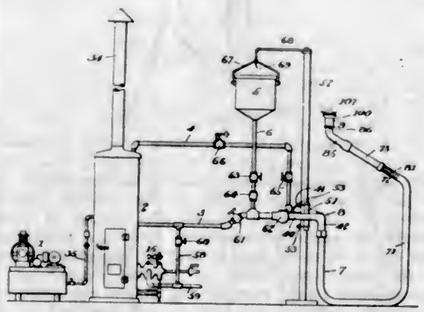


1. In a tire machine, a pair of stitcher arms, individual pneumatic means for operating the arms, individual control valves for said means, means for operating the valves independently or simultaneously comprising a triple acting valve actuating means adapted to actuate either valve independently or both valves simultaneously.

1,676,841. GOLF-BALL CENTER. PAUL S. SHOAFF, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 8, 1927. Serial No. 225,026. 5 Claims. (Cl. 18—50.)

3. A method of manufacturing material for golf ball centers which comprises compounding balata resin with scrap vulcanized rubber, heating the compound until it is reduced to a gel-like consistency, incorporating a weighting material and sulfur into the gel, and vulcanizing the mixture obtained.

1,676,842. WASHING AND CLEANING APPARATUS. ALBERT A. SMALLHOUSE, Los Angeles, Calif., assignor of thirty-nine one-hundredths to Joseph Aebischer, Palmdale, Calif. Filed Feb. 2, 1926. Serial No. 85,514. 6 Claims. (Cl. 299—84.)



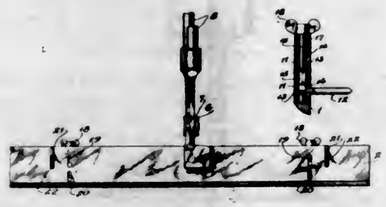
1. A cleaning system comprising a heater provided with a combustion chamber, a water pipe having a coil supported in said chamber, a compressed air supply pipe also having a coil supported in said chamber, a heating drum in the combustion zone connected with said air coil, means for separately introducing the heated compressed air from said drum, and water from said water heating coil to a point of discharge, and means for supporting a cleaning element under pressure in communication with the point of discharge for admixture with the heated air and water, for the purpose described.

1,676,843. RUBBER STOP SIGN. ANDREW J. STEPHENS, Kansas City, Mo. Filed Jan. 12, 1928. Serial No. 246,206. 3 Claims. (Cl. 94—1.5.)



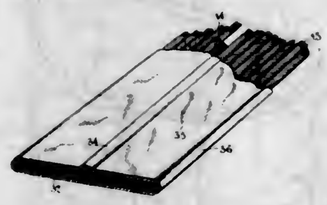
1. A sign including an inscription plate of flexible rubber, and a flexible rubber base in which the lower end of the plate is mounted, the base being more flexible than the plate, so that the base will yield when the plate bends, thereby to avoid a cracking of the plate at the upper edge of the base.

1,676,844. ROOFING TONGS. FRED N. STEVENS, Salem, Va. Filed Aug. 9, 1927. Serial No. 211,797. 7 Claims. (Cl. 113—56.)



1. In combination with tongs of the character described, pairs of correspondingly positioned gage pins mounted on one of the jaws thereof, means for operating each pair of pins whereby said pins may be selectively moved to positions at substantially right angles to the jaws, the remaining jaw having ways therein for receiving the free portions of the pins, when in operative positions, therethrough.

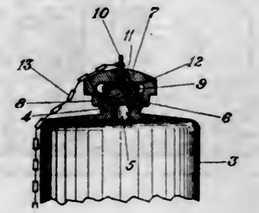
1,676,845. BELT AND METHOD OF MAKING THE SAME. AUSTIN A. TEISHER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 21, 1925. Serial No. 17,314. 8 Claims. (Cl. 154—4.)



1. A belt comprising a core of vulcanized rubber having right and left hand twisted cords embedded therein in their normal condition and enclosed in an envelope of rubberized fabric.

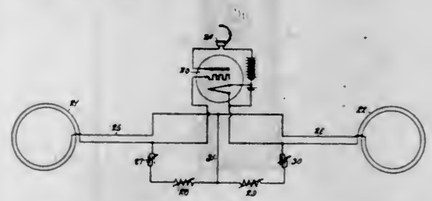
5. A method of making belts which comprises wrapping a strip of rubberized fabric on a collapsible mandrel, covering the strip with uncompressed rubberized cords of different twist, removing the assembly from the mandrel and vulcanizing the assembly.

1,676,846. CLOSURE FOR CONTAINERS. CHARLES S. WATSON, Toronto, Ontario, Canada. Filed Apr. 3, 1923. Serial No. 629,731. 8 Claims. (Cl. 221—60.)



1. The combination with a container comprising a collapsible body portion and a rigid neck portion formed with an aperture and a valve seat, of a cap for the container adapted to be detachably secured to the neck, a closure valve for the aperture in the neck disposed between the cap and the seat, and a connection extending from the valve through an aperture in the cap and attached to the outside of the container adapted to secure the cap and the valve against loss from the container and to permit of free rotational movement between the valve and the cap.

1,676,847. METHOD AND APPARATUS FOR EXPLORING SUBTERRANEAN STRATA. THEODOR ZUSCHLAG, New York, N. Y., assignor to The Taumac Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 18, 1927. Serial No. 161,880. 3 Claims. (Cl. 175—182.)

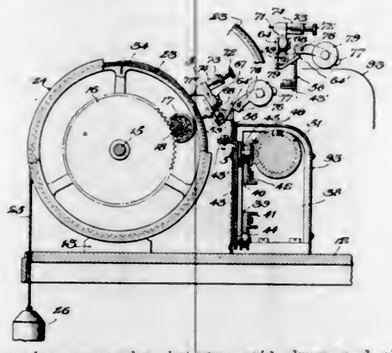


1. The method of ascertaining the characteristics of an alternating magnetic field, which consists in receiving induced currents in two or three directions perpendicular to each other at one or two locations in said field, measuring the frequency of said currents, balancing said currents by means of variable impedance devices of known values, calculating the intensity quotients and phase angle differences for said directions by means of the data thus obtained and computing from these values the maximum and minimum field directions and maximum and minimum field intensity quotients and phase angle differences for the points of observation.

1,676,848. RECORDER. CARL H. AU, Washington, D. C., assignor, by direct and mesne assignments, to Bertha B. Au and Jennie K. Hoyt, Washington, D. C. Filed Jan. 19, 1925. Serial No. 3,440. 3 Claims. (Cl. 234—1.)

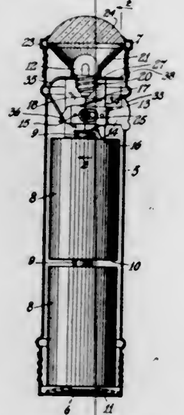
1. In a recorder for recording a variable force or movement, the combination of a shaft, a timing mecha-

nism connected to and controlling the revolution of said shaft, a drum mounted to turn on said shaft, a pawl



and ratchet connection between said drum and shaft, and means for finely adjusting said drum around the shaft independently of said pawl and ratchet.

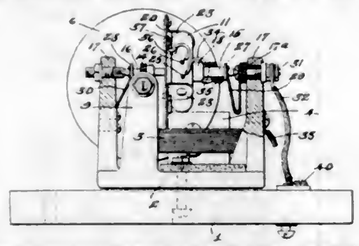
1,676,849. FLASH LIGHT. EDMUND R. BARANY, Brooklyn, N. Y., assignor to French Battery Company, Madison, Wis., a Corporation of Wisconsin. Filed Dec. 24, 1925. Serial No. 77,487. 22 Claims. (Cl. 240—10.5.)



18. A flashlight comprising a casing provided near its front end with a slot; a dry-cell in said casing; a reflector and lens removably connected with the front end of said casing; a lamp mounted in and having a terminal disposed behind the reflector; and a switch-unit insertable through the front end of the casing and disposed between said reflector and dry-cell, said switch-unit comprising a supporting member, a switch-lever mounted thereon and swinging in a plane parallel with the axis of said casing, and means actuated by said switch lever for completing and breaking the circuit between the lamp-terminal and cell-terminal, said switch-lever being provided with a thumb-piece located in said slot.

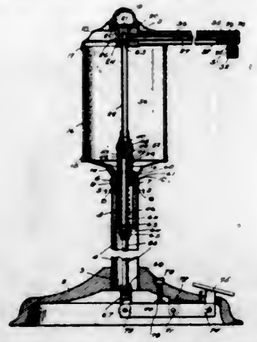
1,676,850. ELECTRIC FLASHER SWITCH MECHANISM. CARL H. BISSELL, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed Feb. 26, 1925. Serial No. 11,738. 2 Claims. (Cl. 200—92.)

1. An electric flasher comprising a rotatable switch member including an annular receptacle of insulation having a fluid conductor partly filling the same, means for rotating the switch member, a pair of terminals exposed in the receptacle, wires connected at like ends to the terminals respectively and at their other ends to



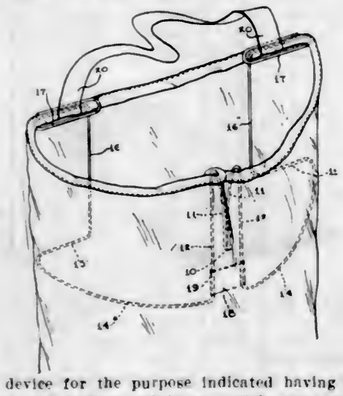
conductors rotatable with the switch members, the wires being rotatable with the switch member and brushes coacting with the conductors of the switch member.

1,676,851. LIQUID DISPENSER. JOHN W. BLOODHART, Dubuque, Iowa, assignor to Midland Chemical Laboratories, Inc., Dubuque, Iowa. Filed June 25, 1927. Serial No. 201,351. 15 Claims. (Cl. 221—94.)



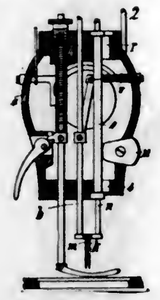
1. A liquid dispenser, comprising a pump, a stationary part, a part rotatable with relation thereto, and supported thereby, a discharge nozzle on the rotary part in communication with said pump and movable about the axis of rotation of the rotatable part, and a manually operated means on the stationary part for operating said pump.

1,676,852. SACK HOLDER. SOLOMON C. BRANUM, Oklahoma City, Okla., assignor of one-half to Joe E. Mason, Oklahoma City, Okla. Filed Oct. 5, 1926. Serial No. 139,680. 3 Claims. (Cl. 150—1.)



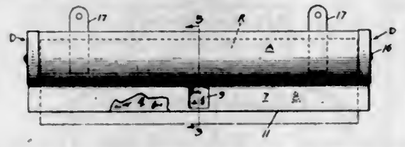
3. A device for the purpose indicated having a vertically arranged section defining a crotch, arms extending from said section and terminating in upstanding leg portions having horizontally arranged loops at their upper ends, the loops being arranged in a plane parallel with the plane of the arms and the latter being of arcuate form.

1,676,853. SEWING MACHINE WITH SEVERAL NEEDLES. WILHELM BRASE, Berlin, Germany, assignor of one-half to Clemens Graaff, Berlin, Germany. Filed Mar. 21, 1925, Serial No. 17,425, and in Germany Mar. 21, 1924. 5 Claims. (Cl. 112—167.)



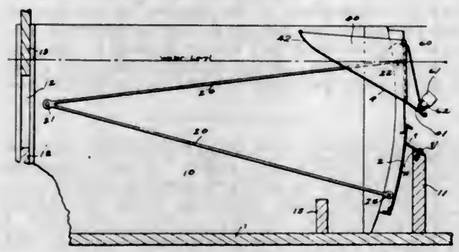
1. In a sewing machine the combination of two needles arranged one behind the other in the direction of sewing, with means to vary the distance between said needles, and a stitch regulating device by means of which the distance between said needles is regulated according to the feed of the work.

1,676,854. ROLL-MATERIAL HOLDER. EDWIN D. CASTERLINE, Oakland, Calif., assignor to Julia Elena Casterline, Oakland, Calif. Filed July 8, 1926. Serial No. 121,105. 3 Claims. (Cl. 242—55.5.)



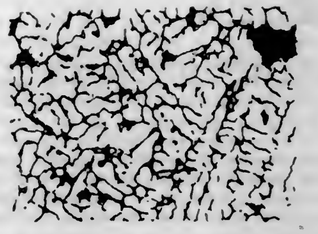
1. A wax-paper dispenser comprising a casing, adapted to receive a roll of wax paper, having a longitudinal opening therein, and a pair of resilient longitudinal lips radiating from said opening and tapering into clamping contact with each other along a sharp knife edge formed by their extremities, whereby a web of wax paper dispensed between said lips may be neatly severed by said lips.

1,676,855. MEASURING WEIR. CHESTER W. CHEATHAM, Seattle, Wash., assignor of one-half to J. N. Nissen, Seattle, Wash. Filed Oct. 6, 1926. Serial No. 139,813. 10 Claims. (Cl. 73—167.)



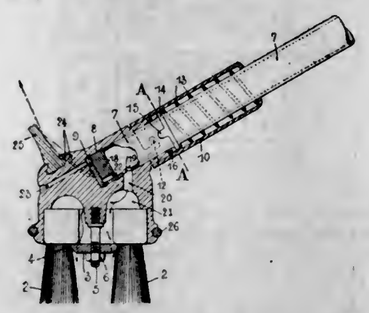
1. In a water measuring and controlling device in combination, a fixed weir board, a vertically movable weir board positioned at the upstream face of the fixed board for vertical movements, a current impact board fixed above and relative to the movable weir board, and radius rods fixed in their relation to said movable board and extending in an upstream direction, a fixed pivot for the upstream ends of said rods, the movable weir board having a segment-cylindrical downstream face concentric with the pivot axis of the radius rods and positioned closely adjacent to the upstream face of the fixed weir board.

1,676,856. ALLOY. ALFRED GEORGE COOPER GWYER and HENRY WILFRED LEWIS PHILLIPS, London, England, assignors to The British Aluminum Company, Limited, London, England. Original application filed July 18, 1925, Serial No. 44,535, and in Great Britain July 19, 1924. Divided and this application filed Aug. 26, 1926. Serial No. 131,742. 5 Claims. (Cl. 75—1.)



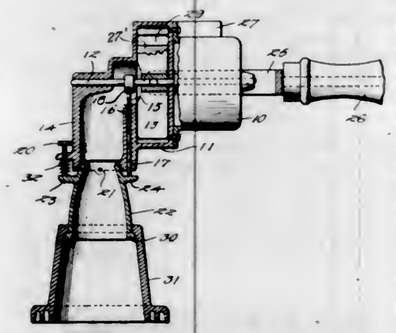
1. The method which consists in the addition to a molten alloy containing at least about 6% of copper and at least about 50% of aluminium of about 0.1 to 0.3% of an alkaline earth metal.

1,676,857. FOUNTAIN BRUSH. JULES JEAN CHÉRON, Paris, France. Filed Feb. 17, 1925, Serial No. 9,864, and in France Feb. 19, 1924. 5 Claims. (Cl. 15—128.)



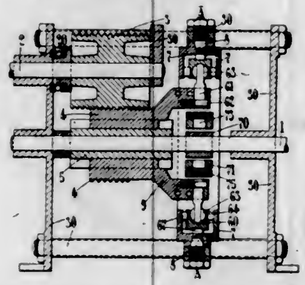
1. A fountain brush comprising in combination; a head carrying the bristles at its lower part and having therein a recess and water outlet conduits which open at one end into said recess, some of said conduits opening at their opposite end towards the bristles and the other conduits opening at the forward part of the head, a hollow water supply handle guided at one end in said recess and having a watertight fit therein, a plug for closing the end of the handle, outlet parts in said end of the handle and in the plug and adapted to respectively and alternatively register with said outlet conduits according to the position of the handle with respect to the head and means for assembling the handle with the head and whereby a relative displacement is permitted between the same.

1,676,858. VACUUM CLEANER. HERMAN G. FERBER and JOSEPH A. LUYBEN, Fort Wayne, Ind. Filed Sept. 25, 1926. Serial No. 137,788. 4 Claims. (Cl. 15—15.)



1. A device for treating the scalp comprising a casing having a motor and a fan therein, said fan being driven by the motor, a nozzle on the casing, a hollow rockable member having an end supported in the mouth of the nozzle, a scalp engaging implement on the outer end of the rockable member and movable therewith, means operable by the motor for rocking the member in one direction, means for limiting the rocking movement thereof in said direction, and means for rocking said member in the opposite direction.

1,676,859. VARIABLE-SPEED GEAR. WILLIAM JOHN GEE, London, England. Filed July 29, 1926, Serial No. 125,812, and in Great Britain Aug. 11, 1925. 1 Claim. (Cl. 74—14.)



A variable speed gear or disengaging coupling comprising rotatable driving and driven elements having intermeshing helical teeth, one element being formed in sections, means for sliding the sections of said one element along its axis relative to the other element, speed control means for causing a pre-determined extent of movement of the sections of one element along the axis thereof, comprising a rotating control ring adapted to be adjusted about a pivot passing diametrically through its centre, links pivotally connected to the sliding sections so as to oscillate in a plane at right angles to the axis of the gear and universal joints connecting the outer ends of the links to the rotating control ring, substantially as described.

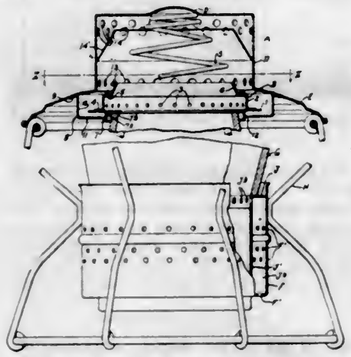
1,676,860. TURNING GUIDE FOR FISHING TOOLS. EDWIN L. GREEN, Cross Plains, Tex.; Cordelia A. Green, administratrix. Filed Dec. 28, 1925. Serial No. 77,952. 5 Claims. (Cl. 294—86.)

1. In a guide for fishing tools the combination of a body, and a lower depending spiral shaped hook of shell-like formation, having a lower end substantially tapered to a point, the upper edge of said hook from said point of the hook spiralling upwardly thru substantially 180° and the lower edge of said hook inclining downwardly from the upper end of said hook in spiral relation thru substantially 180° to a point of termination 180° away from the free lower end of said hook, the upper ends of



the upper and lower edges of said hook terminating at substantially opposed points, whereby to provide a substantially spiral shaped opening forming a spiral of substantially 180° throughout the length of the hook, the width of said opening to the inside of the hook being equivalent to the diameter of said hook.

1,676,861. LANTERN. ALEXANDER H. HANDLAN, St. Louis, Mo. Filed Oct. 12, 1925. Serial No. 61,966. 4 Claims. (Cl. 240—38.)

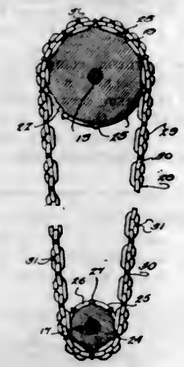


1. A lantern having a dome, a globe, a seat for the bottom face of said globe, and a spring-pressed globe holder, said globe holder including an annular portion arranged transversely of the lantern, and an annular housing secured to said dome and enclosing the marginal edge portion of said annular portion of said globe holder, said annular housing being provided with a wall which overlaps said annular portion of said globe holder.

1,676,862. PROCESS FOR THE PRODUCTION OF QUINOLINE-4-CARBOXYLIC ACIDS. ALFRED HÄUSSLER, Nieder-Ingelheim-on-the-Rhine, Germany, assignor to C. H. Boehringer Sohn, Chemische Fabrik, Nieder-Ingelheim-on-the-Rhine, Germany, a Firm. Filed Dec. 8, 1926, Serial No. 153,454, and in Germany Feb. 6, 1926. 5 Claims. (Cl. 260—39.)

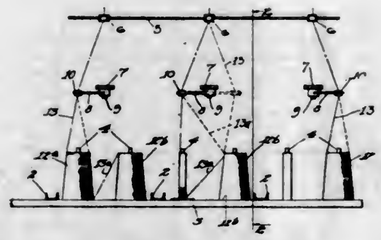
1. A process for the production of quinoline-4-carboxylic acids aryl-substituted in the second position, which consists in causing 1 molecule of pyroracemic acid to react, in the presence of a solvent, with more than 1.5 molecules of a condensation product from an aromatic amine and an aromatic aldehyde.

1,676,863. CHAIN CONSTRUCTION. RALPH S. KELSO, Rockford, Ill., assignor to Free Sewing Machine Company, Rockford, Ill., a Corporation of Illinois. Filed Dec. 3, 1925. Serial No. 73,066. 1 Claim. (Cl. 59—85.)



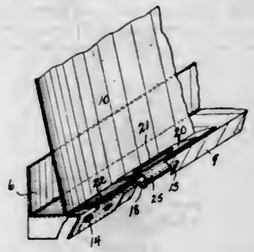
A drive chain comprising a plurality of links, each link comprising a single piece of wire bent to form a resulting link having curved ends, the ends of the material forming each link being arranged intermediate the ends of the link and terminating in substantially conical portions the apexes of which substantially coincide, said conical portions being substantially coaxial and having apex angles not exceeding 90°, each link of the chain being of such length that the adjacent ends of the links connected thereto are spaced a material distance apart.

1,676,864. ARRANGEMENT OF SPINDLES FOR CREELS. RAYMOND C. LONGVALL, Worcester, Mass., assignor to Warp Compressing Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 11, 1927. Serial No. 182,867. 3 Claims. (Cl. 242—131.)



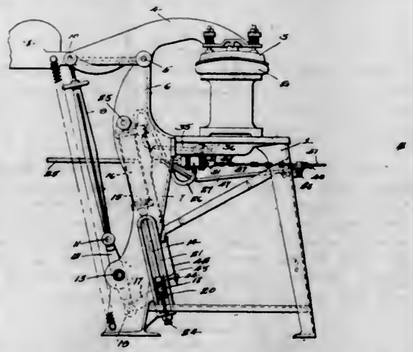
1. An improved arrangement of spindles for creels, comprising a pair of horizontally extending spindles supported in parallel relation, with yarn packages thereon, a stationary thread eye located between said spindles and in the same horizontal plane therewith, and a pivotally mounted thread guide located between the ends of said spindles and said thread eye, said thread guide being adapted to move under the influence of gravity into alinement with either of said spindles.

1,676,865. COVER BACK AND HINGE. GAETANO MANGIALETTI, Brooklyn, N. Y. Filed Oct. 15, 1926. Serial No. 141,851. 5 Claims. (Cl. 220—31.)



1. In a device of the class described comprising a cover back having a base and rear wall, means for positioning the cover back on the top and at the rear of a stationary tub or the like, said base having a front depending flange, portions of said flange being cut away, and a cover having an abutting flange pivotally connected to the depending flange adjacent the cut out portions whereby it may be swung outwardly and upwardly on the base.

1,676,866. ACTUATING MECHANISM FOR PRESSING MACHINES. ALFRED D. MAUAY, Ilion, N. Y., assignor, by mesne assignments, of one-third to Gaius A. Braun, Syracuse, N. Y. Filed Mar. 16, 1926. Serial No. 95,123. 3 Claims. (Cl. 68—9.)

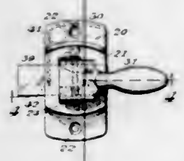


1. In a pressing machine, the combination of a frame including a hollow rear leg, a buck carried by the frame, a press head movable toward and from the buck, a yoke lever pivoted between its ends to the frame and carrying the head at its front end, actuating means including a lever pivoted between its ends to the frame, a link pivoted at its upper end to the rear arm of the yoke lever and at its lower end to one arm of said lever and forming a toggle, a cylinder located in the hollow rear leg, a piston movable in the cylinder, the rear leg being formed with a guide and the piston rod having a cross-head movable along the guide, the guide extending in a general direction parallel to the toggle when the toggle is straightened and a link pivoted to said piston rod to the other arm of the lever.

1,676,867. LATCH. RAYMOND G. MOORE and ARTHUR CLAUD-MANTLE, Bridgeport, Conn., assignors to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed June 17, 1926. Serial No. 116,529. 6 Claims. (Cl. 292—169.)

1. In a latch, a flanged casing having a pair of handle supports stamped and bent therefrom and providing an open portion between said supports, a handle supporting

pin extending transversely between said supports, said flange having opposed latch bolt receiving slots, a latch bolt slidably engaged in said slots, a spring within said casing adapted to normally project said bolt, a lever handle mounted between said supports upon said pin and including a top portion, side flange portions and a latch bolt actuating portion extended into the casing



through said open portion, said side flange portions, adapted to normally abut the upper side of said casing at one side of said open portion, and a spring coiled about said pin and having an end engaged with the top portion of said handle and adapted to yieldably hold the same in its normal position independently of the latch bolt.

1,676,868. ARRANGEMENT FOR CLOSING BOXES. ALBERT CARL PETERSEN, Copenhagen, Denmark. Filed July 5, 1927, Serial No. 203,614, and in Denmark Aug. 30, 1926. 1 Claim. (Cl. 220—60.)



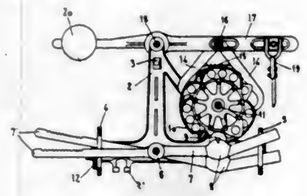
A box consisting of an open body provided on opposite sides below its open side with recesses arranged diametrically opposite to each other and a cover for said box comprising a body and downwardly extending flanges, ears on opposite flanges adapted to engage said recesses, the body of the cover being formed with an upwardly domed central portion whereby pressure on the domed part will release the ears from the recesses.

1,676,869. RESISTANCE UNIT AND RHEOSTAT. HENRY G. RICHTER, Roselle Park, N. J., assignor to Electrad, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 28, 1927. Serial No. 164,233. 4 Claims. (Cl. 201—56.)



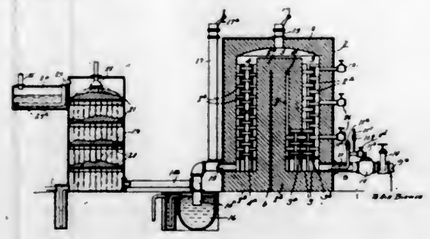
1. A resistor comprising a screw threaded insulated cylindrical member, a resistance member comprising a metallic core, an insulated envelope thereon, and a resistance wire spirally wound thereover, said resistance member being wound in the screw threads of said cylindrical member and terminating short of the ends of said member, conductive internally threaded cap members arranged to be secured over the ends of said cylindrical member for gripping the ends of said resistance wire and establishing electrical connection therewith.

1,676,870. SHEDDING MECHANISM. ANTONIO CALVET RIFÉ, Barcelona, Spain. Filed June 19, 1926, Serial No. 117,200, and in Spain Aug. 31, 1925. 5 Claims. (Cl. 139—78.)



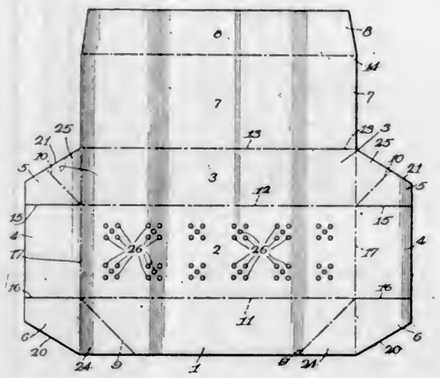
1. A shedding mechanism comprising in combination with levers, operating cams, a movable arm, a pawl member carried by said arm, means rigidly mounted with said cams and engaged by the pawl member for rotating the cams, and means associated with said arm and cams for locking and freeing the latter with movement of the arm.

1,676,871. GASEOUS FUEL. JAMES REUBEN ROSE, Edgeworth, Pa., assignor to Carbo-Oxygen Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Aug. 13, 1917. Serial No. 185,978. 2 Claims. (Cl. 48—199.)



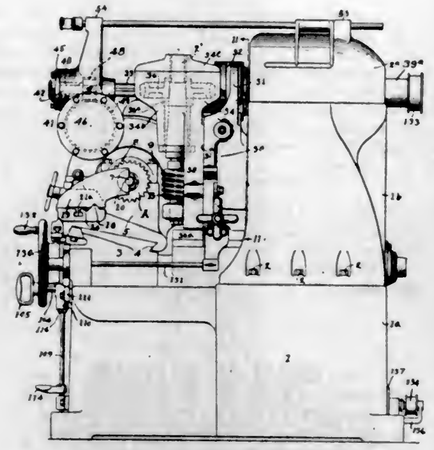
1. A gas for cutting and welding with oxygen, containing not materially less than 80% of hydrogen, not materially less than 10% of methane, not materially less than 1½% of heavier gaseous hydrocarbons and not materially more than 5% of carbon monoxide.

1,676,872. EGG CARTON. WILLIAM A. SCHURMANN, Chicago, Ill., assignor to W. A. Schurmann & Co., Inc., Chicago, Ill., a Corporation of Illinois. Filed Apr. 29, 1925. Serial No. 26,589. 1 Claim. (Cl. 229—29.)



An egg carton formed from a blank of sheet of material having integral front and rear and bottom and end walls, and a filler in the carton to provide rectangular egg cells, said integral bottom of the carton having a center cushioning means for centrally engaging the lower end of each egg cell, and surrounding cushioning means with said center cushioning means in the center thereof, said surrounding means being in position to engage the lowest surface of the egg, if the lower end of the egg is displaced sidewise, said center and surrounding cushioning means being of the same height and disposed close together, with their tops all in the plane of the lower end of the egg, at the center of the bottom of each cell, to prevent the lower end of the egg from slipping down between any of said cushioning means, said cushioning means comprising a group of upwardly pressed dots, five in number, each outer dot being opposite one corner of the egg cell, whereby the group is rectangular, with the fifth dot in the center thereof, and with the tops of said dots all in said plane below the egg.

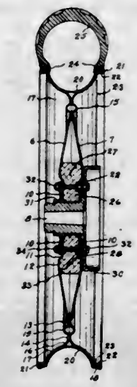
1,676,873. HOBBING MACHINE. CHARLES H. SCHURR, Cleveland, Ohio, assignor to The Lees-Bradner Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 7, 1923. Serial No. 679,127. 17 Claims. (Cl. 90—4.)



1. In a hobbing machine, a drive shaft connected to a source of power, a tool spindle, a driven gear on the tool spindle and a driving gear on the drive shaft meshing therewith to drive the tool spindle, a supplemental shaft, a driven gear on the supplemental shaft and a second driving gear on the drive shaft meshing therewith to drive the supplemental shaft, a work spindle, a driven gear on the work spindle and a driving gear on the supplemental shaft meshing therewith to drive the work spindle, the tool spindle being adjustable around the axis of the drive shaft in a plane parallel to the axis of the work spindle.

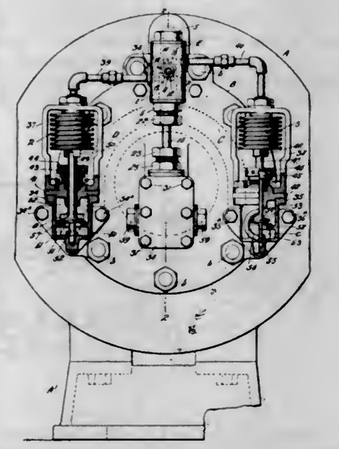
15. In a hobbing machine, a drive shaft, a tool spindle, a worm gear on the tool spindle and a worm on the drive shaft meshing therewith to drive the tool spindle, a supplemental shaft, a worm gear on the supplemental shaft and a second worm on the drive shaft meshing therewith to drive the supplemental shaft, a work spindle substantially parallel to the supplemental shaft and substantially at a right angle to the drive shaft, a gear on the work spindle and a gear on the supplemental shaft meshing therewith to drive the work spindle.

1,676,874. WHEEL. ALVIN H. SHOEMAKER, Seattle, Wash. Filed Sept. 13, 1926. Serial No. 135,073. 9 Claims. (Cl. 301—63.)



8. A disc wheel embodying two sheet metal discs having parallel portions near the hub and thence diverging at a short distance from the hub to afford a space of greater width therebetween, and spacing means arranged to fit between said parallel hub portions and having a widened circumferential part arranged to enter said space of greater width between said discs.

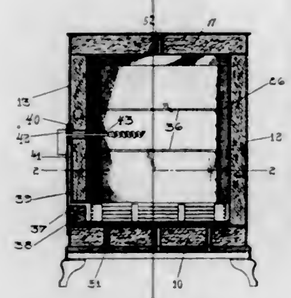
1,676,875. AUTOMATIC RECEIVER PUMP. HOWARD GRIFFITH SHORTT, Carthage, N. Y., assignor of one-half to Stebbins Engineering and Manufacturing Company, Watertown, N. Y., a Corporation of New York. Filed Dec. 17, 1927. Serial No. 240,661. 16 Claims. (Cl. 103—246.)



1. In an automatic receiver pump of the class described, the combination of a liquid receiver having an inlet and outlet, a control valve and its cylinder, a buoyant member in the receiver, means whereby the buoyant member positively and automatically actuates said control valve, an exhaust outlet for the control

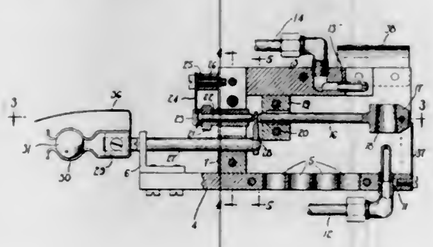
cylinder, a steam inlet valve for the receiver, a steam outlet valve for the receiver, both controlling a common passage into the receiver, connections between the control valve and the steam inlet and outlet valves, said connections including expansible members which expand to close the steam inlet and outlet valves and contract to allow said valves to open, so that when the control valve is actuated in one direction the steam inlet valve will be opened and the outlet valve closed, and when the control valve is actuated in the opposite direction the inlet valve will be closed and the outlet valve opened.

1,676,876. CONSTANT-TEMPERATURE OVEN. WINFIELD H. STANNARD, Matteson, Ill., assignor to Central Scientific Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 30, 1925. Serial No. 72,208. 13 Claims. (Cl. 219—35.)



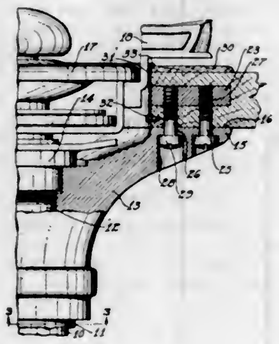
1. In a device of the class described, the combination of an oven enclosure, including a bottom, a top and walls, a heating element extending about the enclosure and located adjacent to the bottom, and the walls, and a flue communicating at its bottom with the heating element and extending upwardly along the walls and delivering adjacent to the top.

1,676,877. HYDROCARBON-BURNER SYSTEM. JOSEPH S. STRING, East Orange, N. J., assignor to J. S. & J. F. String Incorporated, Newark, N. J., a Corporation of Connecticut. Filed Aug. 11, 1926. Serial No. 128,536. 9 Claims. (Cl. 158—42.4.)



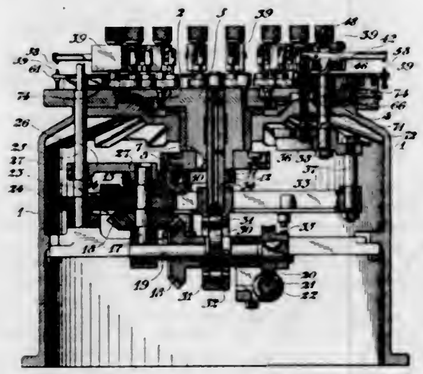
1. An igniting device for a hydrocarbon burner system comprising a pilot light, a thermal rod adapted to expand by the heat from said pilot light and having a free end and a pivoted end, said ends being so located that the heat of said pilot light will strike said rod intermediate thereof, a switch actuator frictionally engaging said thermal rod and a device constituting an electric switch associated with said switch actuator and adapted to function automatically upon disengagement of said switch actuator with said thermal rod.

1,676,878. MOTOR VEHICLE. MILTON TIBBETTS, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Original application filed Apr. 7, 1923, Serial No. 630,457. Divided and this application filed May 21, 1927. Serial No. 193,137. 6 Claims. (Cl. 74—33.)



1. In a steering mechanism, in combination, a support having a face to receive a steering wheel, a steering wheel comprising a wooden hub having a metal insert therein, and attaching means extending from said support into said metal insert to secure the wheel to the support.

1,676,879. GAUGING MACHINE. PHILIP WALLIN, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Sept. 22, 1926. Serial No. 136,945. 13 Claims. (Cl. 209—88.)



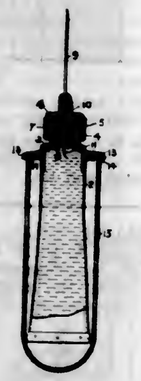
1. A roll gauging machine comprising a plurality of gauging devices, an indexing mechanism for supporting conical rolls standing on their small ends and carrying said rolls into alinement with portions of said gauging devices, separate socket members therefor for receiving and supporting said rolls when in alinement with said gauging devices and means for moving said gauging devices toward said rolls to gauge the same.

1,676,880. MOP. WILLIAM D. WHITAKER, Elkins Park, Pa. Filed June 21, 1926. Serial No. 117,290. 4 Claims. (Cl. 15—229.)



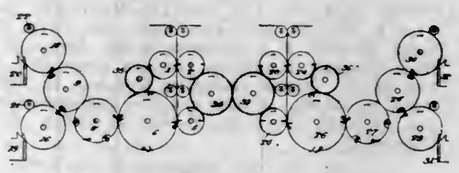
1. A mop comprising a pad provided with an opening, a plurality of strands, a band secured centrally about said strands, said strands and band being folded and extended through the opening in the pad, means securing said strands and band to the pad adjacent said opening and means securing the strands to a face of the pad in such a manner that the end portion of the strand will extend beyond the confines of the pad in all directions in the general plane of the pad.

1,676,881. HYPODERMIC SYRINGE. WENDELL P. ANTHONY, Ridley Park, Pa., assignor to The Mynol Chemical Company, a Corporation of Delaware. Filed Aug. 19, 1924. Serial No. 732,898. 4 Claims. (Cl. 128—216.)



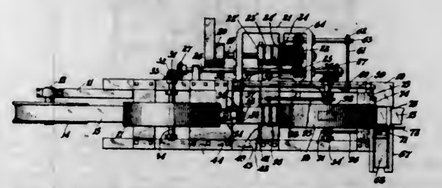
1. A hypodermic syringe, comprising a capsule of soft collapsible material for containing the fluid in a hermetically sealed condition said capsule provided on its end with a thin perforable diaphragm, combined with a cap arranged to be detachably secured to the end of the capsule over the perforable diaphragm and provided with an outwardly projecting needle and an inwardly projecting needle whose canals are in continuous communication, and wherein further, the length of the inwardly projecting needle is sufficient to extend through the perforable diaphragm into the fluid containing space of the capsule when the cap is secured in operable position upon the capsule, and wherein the capsule is provided with a head portion of greater thickness to embody a more rigid construction than the collapsible body part and said increased thickness shaped on diametrically opposite sides to provide shoulder portions to receive the thrust of the fingers when forcing the needle into the flesh of the patient.

1,676,882. COLLECTING, FOLDING, AND DELIVERING MECHANISM FOR PRINTING PRESSES. HOWARD M. BARBER, Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a Corporation of Delaware. Filed May 7, 1927. Serial No. 189,551. 10 Claims. (Cl. 270—47.)



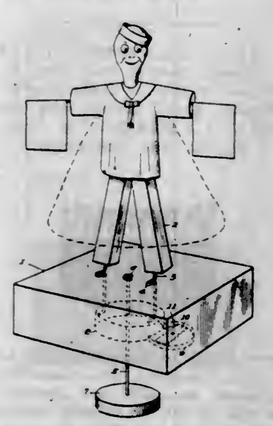
1. A mechanism arranged to collect, fold and deliver signatures of 8s and multiples of 8s, comprising a four-way collecting cylinder and two coacting folding cylinders, the first folding cylinder being arranged to take the sheets from the collecting cylinder and fold them off to the second folding cylinder.

1,676,883. MACHINE FOR CUTTING OFF AND PREPARING STOCK STRIPS. THOMAS A. BEANEY, Poughkeepsie, N. Y., assignor to Beaney Rubber Company Inc., New York, N. Y., a Corporation of New York. Filed July 2, 1924. Serial No. 723,612. 19 Claims. (Cl. 164—12.)



7. In a machine of the kind described, a stock feed consisting of spaced feed wheels, an intermittent driving gear for the wheels, a gear shift to determine the length of the feed, a lock for the feed wheels, and means for simultaneously adjusting the lock and the gear shift.

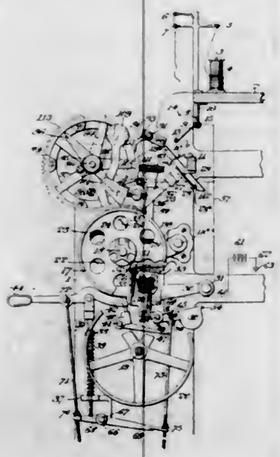
1,676,884. TOY. KATHRYNE IVY BELDEN, Peoria, Ill. Filed Apr. 5, 1923, Serial No. 630,065. Renewed Apr. 23, 1928. 2 Claims. (Cl. 46—40.)



1. In a toy the combination of a figure, a buoyant base for the figure and having a bore extending upwardly therethrough, a rod mounted for vertical movement in

said bore, a counter-weight carried by the lower end of said rod, means for limiting the downward movement of said rod, and a counterbore in the under surface of said base wherein the counter-weight is adapted to enter.

1,676,885. WINDING AND REELING MACHINE. EDWARD E. BRADLEY, Stonington, Conn., and IRVING R. ROWE, Westerly, R. I., assignors to The Atwood Machine Company, Stonington, Conn., a Corporation of New Jersey. Original application filed Aug. 21, 1925. Serial No. 51,604. Divided and this application filed Jan. 15, 1926. Serial No. 81,435. 20 Claims. (Cl. 192—142.)



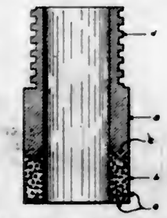
1. In combination, a main driving pulley, a reel, its driving pulley arranged to be moved into and out of coaction with said main driving pulley, a brake arranged to engage said reel pulley for moving it away from the driving pulley, a stop motion mechanism for controlling the movement of said brake, an electrical circuit coacting with said stop motion mechanism, a registering device driven from the main driving pulley through the reel pulley, and a member arranged to be engaged by said registering device for closing said circuit to actuate the stop motion mechanism and brake.

1,676,886. ARTIFICIAL-HORSEHAIR-UPHOLSTERY FABRIC. ABRAM BRANDT, New York, N. Y., assignor to Jos. Brandt & Bro., a Copartnership composed of Joseph Brandt, Louis Brandt, and Abram Brandt, New York, N. Y. Filed Nov. 24, 1926. Serial No. 150,531. 2 Claims. (Cl. 139—420.)



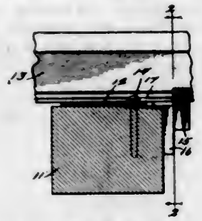
1. As a new article of manufacture, an artificial horsehair fabric for upholstery use comprising large warp threads arranged in pairs and passing substantially straight through the fabric and weft threads of pyroxylin material arranged over and under the same pair of warp threads whereby the warp threads are buried and concealed in the fabric and solidly packed to produce a close meshed fabric.

1,676,887. CORE-DRILL BIT. JOHN R. CHAMBERLIN, Bronxville, N. Y. Filed July 14, 1922. Serial No. 574,998. 2 Claims. (Cl. 255—72.)



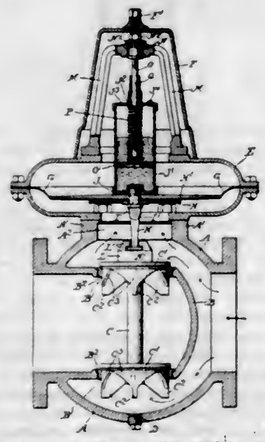
1. A rotary core drill bit comprising a metal tube and an end tube of cutting crystals bound together by a vitreous binder, said end tube being self-sustaining, and said metal tube having one end in contact with one end of said self-sustaining end tube of cutting crystals and binder with the metal thereof extending into interstices in said end tube whereby substantially all of said end tube is free of metal.

1,676,888. BEARING PLATE FOR RAIL ANCHORS. BYRON M. CHENEY, Chicago, Ill. Filed Sept. 3, 1927. Serial No. 217,432. 10 Claims. (Cl. 238—299.)



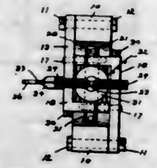
1. The combination with a railway tie, a tie plate, a rail supported by said tie plate, and a rail anchor attached to said rail, of a bearing plate formed separately from said tie plate and rail anchor and interposed between said rail anchor and tie.

1,676,889. GAS-RELIEF VALVE. GEORGE C. DAVIS, Chicago, Ill., assignor to G. M. Davis Regulator Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 11, 1923. Serial No. 631,283. 8 Claims. (Cl. 137—53.)



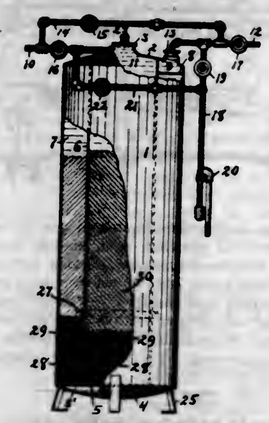
1. In an automatically opening valve, a valve casing, a valve element therein, means for opening and closing said valve element in response to pressure fluctuation within said casing, said means including a diaphragm adapted to be raised by the pressure within the valve casing and to carry the valve element with it, there being mounted to rise and fall with the diaphragm a dash pot, and in combination with said dash pot a plunger supported from the valve casing, carrying within the dash pot a resisting plate adapted yieldingly to resist the movement of the valve element, and a spring, said spring within said dashpot adapted at one end to bear against said resisting plate and at the other against the interior of said dash pot, said spring adapted to support a portion of the weight of the valve element.

1,676,890. SPEAKER UNIT. OTTO S. DRAKE, Newburgh, N. Y. Filed July 18, 1927. Serial No. 206,472. 5 Claims. (Cl. 175—339.)



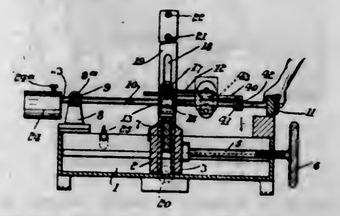
1. In a device of the class described, a magnet, a pair of permanent pole pieces carried by said magnet, a pair of coil spacers having one end rigidly attached to one of said permanent pole pieces and the other end adjustably secured to the other permanent pole piece, said coil spacers formed with alined bearings, an armature mounting adjustably mounted therein and means for locking said adjustment, a pair of adjustable pole pieces mounted at right angles to said permanent pole pieces and adapted to be held between said permanent pole pieces and said coil spacers with their ends forming an air gap with said armature, and means for transmitting movement from said armature.

1,676,891. APPARATUS FOR FILTERING AND SOFTENING WATER. RALPH C. DUNKELBERG, Fort Wayne, Ind. Filed Nov. 11, 1927. Serial No. 232,563. 11 Claims. (Cl. 210—24.)



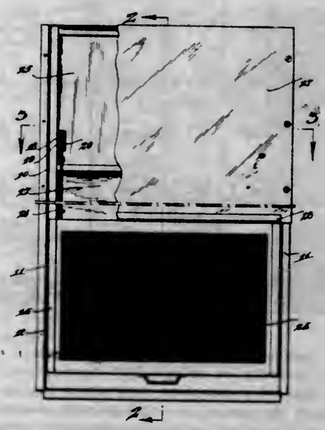
1. In apparatus of the class described, a pair of shells concentrically disposed, there being an annular space therebetween; a head closing the upper ends of both shells having a central closed aperture; a head closing the lower end of the outer shell; a perforated plate in the lower end of the outer shell having supporting relation with the inner shell; gravel beds within the lower portions of said shells sustained by said plate; a filter bed within the inner shell overlying the gravel bed therein; a water softening mineral-body within the annular space between said shells overlying the gravel bed therein; a perforated annular partition extending between said shells spaced from the uppermost head; a valve controlled water supply pipe having connection through the uppermost head with the innermost shell; a discharge pipe having connection through the uppermost head with the space between said shells; a valve controlled waste pipe in connection with the discharge pipe; a valve controlled by-pass connection between said supply and discharge pipes; and a valve controlled cross-pipe connection, one end of which is connected with said waste pipe and the other end of which is connected with said supply pipe at a point between the valve thereof and its connection with said head.

1,676,892. MACHINE FOR FINISHING BOOK COVERS BY LINING, LETTERING, OR ORNAMENTING. HUGH DUNN, Falkirk, Scotland. Filed June 23, 1926. Serial No. 117,980, and in Great Britain Mar. 13, 1926. 15 Claims. (Cl. 41—7.)



1. A machine for the purpose specified, comprising, in combination, means for holding the book, means for lining, lettering and ornamenting the book, means for applying metallic leaf directly to the book and reciprocable mounting means for said lining, lettering and ornamenting means and said metallic leaf applying means whereby they can be moved over the back of a book, the aforesaid means co-operating to allow the metallic leaf to be laid on the back of the book and subsequently impressed upon the back of the book in one operation.

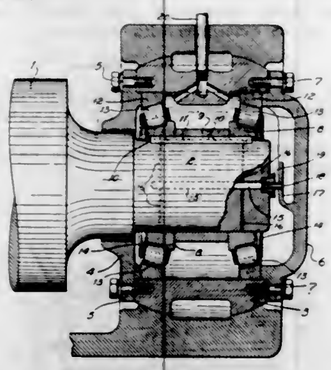
1,676,893. FIREPLACE ATTACHMENT. LOUIS F. ETSELE, Philadelphia, Pa. Filed June 28, 1927. Serial No. 202,028. 5 Claims. (Cl. 126—135.)



1. An attachment for fire places including a frame, fixed guideways in the upper part of the frame, removable guideways in the lower part of the frame and align-

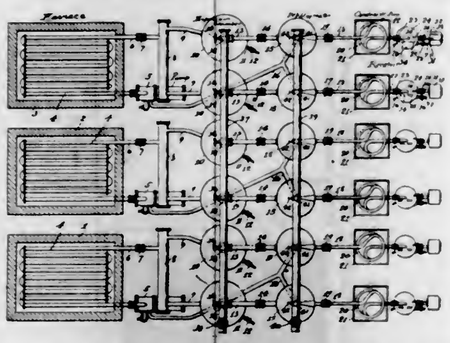
ing with the fixed guideways, a screen and a blower slidable in the guideways, a pulley mounted between the fixed guideways at either side of the frame, a flexible support passing over each pulley and connected to the screen and to the blower, and means for removing the screen and blower when the attachment is installed in a fire place.

1,676,894. SHAFT BEARING. PARDEE H. FRANK, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Mar. 2, 1927. Serial No. 171,960. 6 Claims. (Cl. 308—207.)



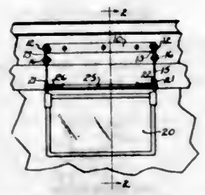
1. A shaft, a housing, a roller bearing interposed therebetween, said roller bearing including an inner bearing member loosely mounted on said shaft so as to be slidable thereon and rotatable therewith, and means for supplying lubricant to the bore of said inner bearing member, to prevent said inner bearing member from binding on said shaft, said means being independent of the bearing lubricating means.

1,676,895. PROCESS AND APPARATUS FOR CRACKING PETROLEUM. LEE J. GARY, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Mar. 14, 1921. Serial No. 452,214. Renewed Feb. 20, 1928. 2 Claims. (Cl. 196—48.)



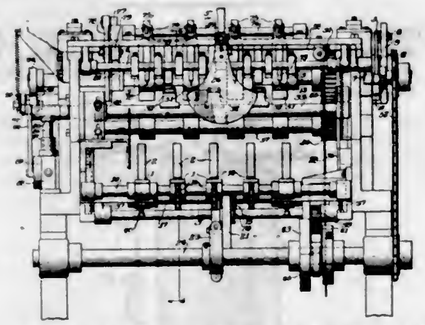
1. An apparatus for cracking hydrocarbon oil, comprising a plurality of independent heating coils, a plurality of expansion chambers, into which heated oil from said coils is discharged, a dephlegmator associated with each of said enlarged expansion chambers, pressure reducing means interposed between each enlarged expansion chamber and its associate dephlegmator, a common header in communication with the vapor space of each of said expansion chambers, a second header in communication with each of said dephlegmators, whereby a uniform pressure can be maintained in said dephlegmators, lower than a uniform superatmospheric pressure maintained in said enlarged expansion chambers, and means connected to said dephlegmators for condensing and collecting vapors issuing therefrom.

1,676,896. GLARE SHIELD. PHILIP J. GROENENSTEIN, Cleveland, Ohio. Filed Mar. 11, 1926. Serial No. 93,854. 4 Claims. (Cl. 296—97.)



4. In combination, a glare shield support, a visor, a pair of links connecting the visor and support, each of said links having slots therein extending at right angles to each other, means operating in said slots for enabling the visor to be moved in horizontal and vertical planes with reference to the support, and other means for connecting the visor to the links for permitting the visor to be swung about an axis with reference to the support.

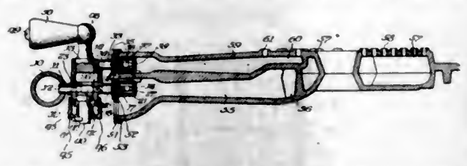
1,676,897. PNEUMATIC FEED MECHANISM. SEVERIN HALVORSEN, Chicago, Ill., assignor to The Newspaper Stuffing Machine Company, Seattle, Wash., a Corporation of Washington. Filed Dec. 22, 1924. Serial No. 757,340. 13 Claims. (Cl. 271—28.)



1. Feeding mechanism in which the articles are arranged in vertical position, said feeding mechanism having feeding devices comprising suckers for engaging and pulling out the upper edge of the foremost article, means for reciprocating said suckers vertically, and for swinging the same outwardly when moved downwardly, a rotary segment cooperating with the suckers and a gripping roll cooperating with said rotary segment.

1,676,898. GAS-RANGE BURNER. PHILIP S. HARPER, Chicago, Ill. Filed Aug. 24, 1927. Serial No. 215,017. 3 Claims. (Cl. 158—104.)

3. A double gas range burner with a gas cock having a single plug and two gas nozzles, each of said gas nozzles leading to a burner section with a plurality of burner ports therein, said plug having two passages therethrough with connecting passages respectively each leading to one of said gas nozzles, said plug having an equalizing passage therein connecting the two said passages through said plug, the two passages through said plug arranged to close on rotation of said plug one before the other on the side leading to said gas nozzles, indicating means showing when one of said passages is closed, said passages arranged to close on rotation of said plug one before the other on the side of gas inflow



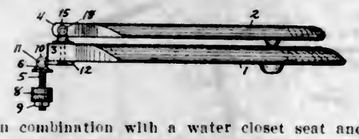
to said plug, said body having a large passage leading to the opening on the side of gas inflow of one of said two passages in said plug, and said parts having a separate smaller passage with connecting passages from the point of gas supply through the opening of the other of the two said passages through said plug on the side of gas inflow.

1,676,899. EDIBLE PRODUCT AND METHOD OF PRODUCING SAME. HATTIE L. HEFT, MAY B. VAN ARSDALE, and DOROTHY E. SHANK, New York, N. Y., assignors to Teachers College, a Corporation of New York. Filed Aug. 20, 1925. Serial No. 51,504. 14 Claims. (Cl. 99—11.)

1. The method of producing edible food products from mixtures comprising nonacidosis producing odd-carbon fatty acids, which method comprises mixing the said odd-carbon fatty acids with a farinaceous material and baking the mixture.

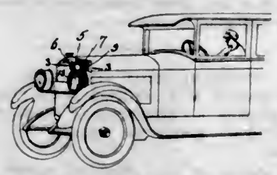
8. An edible article of manufacture comprising a heat treated farinaceous product containing non-acidosis producing odd-carbon fatty acids.

1,676,900. HINGE FOR WATER-CLOSET SEATS AND COVERS. WILLIAM J. HESS, Fort Wayne, Ind., assignor to Van Arnam Manufacturing Company, a Corporation of Indiana. Filed Nov. 13, 1926. Serial No. 148,178. 4 Claims. (Cl. 4—236.)



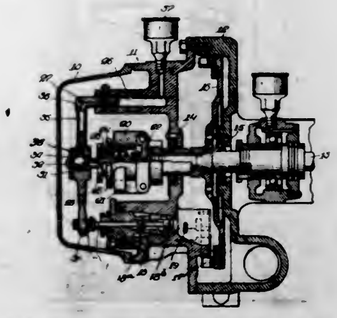
1. In combination with a water closet seat and cover therefor, a pair of hinge posts; a pair of wings hinged respectively in connection with said posts and extending beneath said seat; superimposed posts on said seat pivotally supporting said cover; and a screw connecting each of said wings and the corresponding superimposed post through said seat, there being a stud on each wing projecting into said seat to prevent displacement of said wing.

1,676,901. IMAGE REFLECTOR FOR VEHICLES. WALTER HUELLER, West New York, N. J. Filed Sept. 10, 1926. Serial No. 134,603. 5 Claims. (Cl. 88—1.)



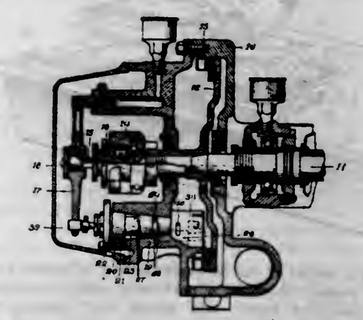
3. A device for a road vehicle to indicate the approach of a vehicle from either side, said device comprising a casing, lenses attached to said casing with their axes extending transversely of the road vehicle, mirrors in said casing to reflect images received by the lenses towards the driver of the road vehicle, and lenses for magnifying said images for the benefit of the driver of the road vehicle.

1,676,902. GOVERNOR. LEE B. JONES and EDWARD H. WERZNER, Evansville, Ind., assignors to Sunbeam Electric Manufacturing Company, Evansville, Ind., a Corporation of Indiana. Filed Aug. 5, 1920, Serial No. 401,537. Renewed Dec. 5, 1927. 14 Claims. (Cl. 264—15.)



1. In a governing mechanism, a rotary shaft, pivoted bell cranks associated therewith, one arm of which is responsive to centrifugal force and the other arm of which is moved thereby substantially parallel to said shaft, a pivoted valve-actuating lever adapted to be moved through said last named arms, said lever having a ball socket formed therein and having a removable wear plate at one side of said socket, a freely movable ball loose within said socket and capable of turning to present all parts of its surface to said plate, and a valve associated with said lever.

1,676,903. VALVE. LEE B. JONES and EDWARD H. WERZNER, Evansville, Ind., assignors to Sunbeam Electric Manufacturing Company, Evansville, Ind., a Corporation of Indiana. Filed Aug. 5, 1920. Serial No. 401,538. 20 Claims. (Cl. 137—140.)

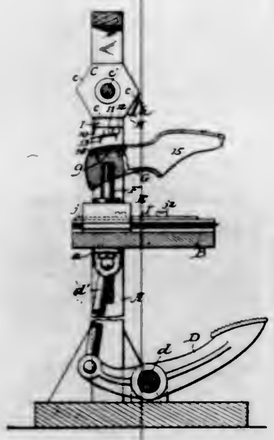


1. In a turbine, a fluid supply valve, means for normally moving said valve in accordance with the speed of said turbine, and means which is dependent entirely on the fluid pressure in said turbine for closing said valve upon the failure of said first means.

1,676,904. HEEL-ATTACHING MECHANISM. JOHN A. KELLY, Brooklyn, N. Y. Filed July 29, 1925. Serial No. 46,710. 1 Claim. (Cl. 12—17.)

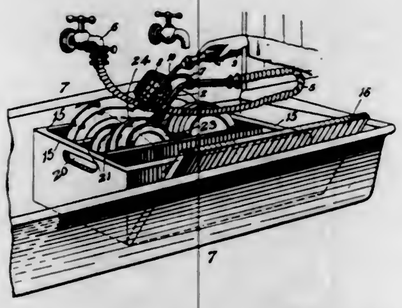
In a heel attaching mechanism, the combination with a last carrier, and means for imparting vertical reciprocating movement thereto, of a work head mounted for

rotative movement at will and positioned in co-operative relation to the last carrier, a die positioned on said work head and operable to countersink a recess in a heel-seat



of an upper adapted to be mounted on the last carrier, a plurality of pins protruding from the face of said die and operating concurrently therewith for puncturing the heel seat, and a heel holder mounted on the work head.

1,676,905. COMBINED DISHWASHER AND SOAP HOLDER. FRANCIS M. KING, Sr., Philadelphia, Pa. Filed June 6, 1927. Serial No. 196,773. 4 Claims. (Cl. 141—9.)



1. In a device of the character stated, a nozzle, a water supply conduit therefor, a perforated soap container pivotally mounted above said nozzle and adapted to be turned towards or away from said nozzle, and a handle for manipulating said nozzle and container.

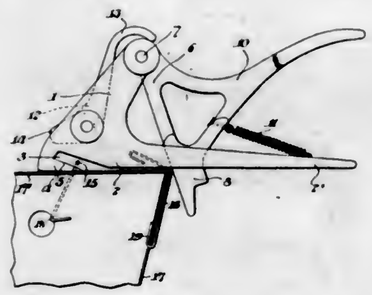
1,676,906. SOUNDING DEVICE FOR DOLLS AND OTHER TOYS. ALEXANDER KONOFF, Brooklyn, N. Y., assignor to Voices Incorporated, Wilmington, Del., a Corporation of Delaware. Filed June 22, 1922. Serial No. 570,209. 10 Claims. (Cl. 46—46.)

1. A sounding device of the character described comprising an exterior box or casing, a stationary shaft mounted therein having near one end a side recess, an air-bag or bellows within said box or casing and secured at one end thereto, a piston to which the other end of said bag or bellows is secured and which is adapted by its weight, in one position of the device, to distend said bag or bellows and, in another position of the device, to collapse said bag or bellows for forcing the air therefrom and a reed carried by said piston, said piston having a sleeve



portion to guide on said shaft and a sound-box into which said reed leads and which has in its outer end an opening through which said shaft extends, said opening being substantially closed by the shaft except when passing over said recess and then being open to permit the flow of air therethrough and the sounding of the reed.

1,676,907. TOOL FOR MANIPULATING FASTENERS FOR CONTAINER CLOSURES. MATHIAS R. KONDOLF, Cynwyd, Pa., assignor to Boxboard Products Company, Philadelphia, Pa., a Corporation of Delaware. Filed Jan. 26, 1924. Serial No. 688,739. 7 Claims. (Cl. 140—93.)

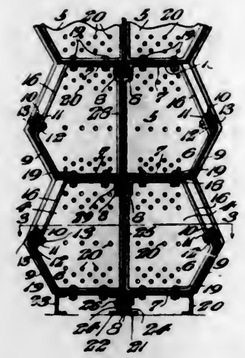


1. A tool comprising an extended base for engaging a package surface and projecting beyond the edge thereof, a member rigidly connected with said base and projecting outwardly therefrom, a lever pivotally connected with said member adjacent to the top thereof and projecting toward said base and beyond the bottom thereof, and an arm projecting transversely from said lever and forming a handle complementary to the projecting end of said base, said base and lever being provided with fastener and keeper engaging means.

1,676,908. CONSTRUCTION IN BINS. ALBERT H. LEVENE, Newark, N. J., assignor to De Luxe Metal Furniture Company, a Corporation of Pennsylvania. Filed July 24, 1926. Serial No. 124,645. 8 Claims. (Cl. 312—124.)

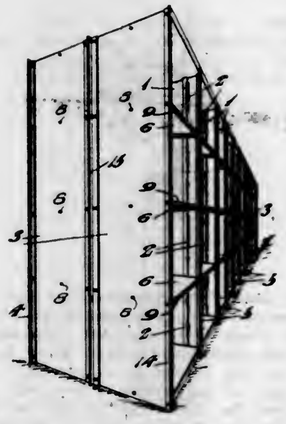
1. In a device of the character stated, a bin constructed of a series of metallic shelves, each shelf having a base and a reinforced outwardly inclined front, terminating in an inwardly inclined edge, movable transverse

partitions for said shelves, each having a base and front edges outwardly converged, the lower front edges of said partitions conforming to the inclination of the front of



said shelves, and means passing through said inclined edge and said partitions for detachably securing the latter at suitable intervals along the length of said shelves.

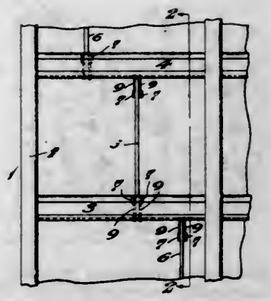
1,676,909. SHELVING. ALBERT H. LEVENE, Newark, N. J., assignor to De Luxe Metal Furniture Company, a Corporation of Pennsylvania. Filed Aug. 12, 1926. Serial No. 128,802. 5 Claims. (Cl. 211—135.)



5. In a structure of the character stated, metallic vertical partitions having stamped therefrom vertically disposed hollow continuous ribs, horizontal shelves having their flat ends abutting against said vertical partitions and having depending side flanges, and means independent of said ribs passing through said flanges and said vertical partitions to secure said horizontal shelves in place.

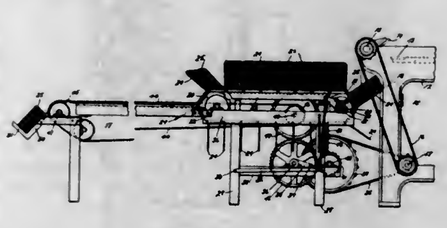
1,676,910. MOVABLE SHELF DIVIDER. ALBERT H. LEVENE, Newark, N. J., assignor to De Luxe Metal Furniture Company, a Corporation of Pennsylvania. Filed Oct. 23, 1926. Serial No. 143,545. 4 Claims. (Cl. 211—135.)

4. In a shelf construction of the character stated, horizontal shelf members having apertures therein, vertical movable dividers adapted to coact with said shelf members to divide a given shelf into any desired number of compartments, said dividers being provided with projecting apertured lugs, and sliding keys adapted to engage the apertures in said shelf members and in said



lugs, detachably to secure said dividers in position with respect to said shelf members, each of said sliding keys comprising a pair of opposed, staggered tongue portions and two opposed staggered offset edge portions.

1,676,911. SHINGLE-GROUPING MACHINE. CHARLES J. MCDAVITT, Chicago, Ill., assignor to The Lehon Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 28, 1924. Serial No. 689,124. 10 Claims. (Cl. 198—35.)



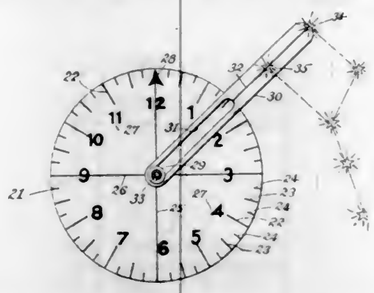
2. In a shingle machine, a source of shingles delivered successively, a rack disposed to receive shingles from the source and including oppositely inclined members whereby the shingles are caused to accumulate with a corresponding edge of each shingle against one of the inclined members, a collecting device including fingers adapted to move transversely to the last mentioned inclined member, and means for intermittently driving the collecting device.

5. In a shingle machine, means for delivering shingles successively and means for grouping the shingles including oppositely inclined members forming a trough-like rack opening upwardly whereby the shingles accumulate in substantially parallel relation, each leaning against the shingle beneath, a collecting device including the fingers moving transversely to the rack to lift the shingles therefrom in groups and means for driving the collecting device intermittently with a quick start followed by gradual deceleration.

1,676,912. DEVICE FOR CALCULATING TIME. FREDERICK C. MEACHAM, Garden City, N. Y. Filed Nov. 13, 1925. Serial No. 68,815. 3 Claims. (Cl. 35—3.)

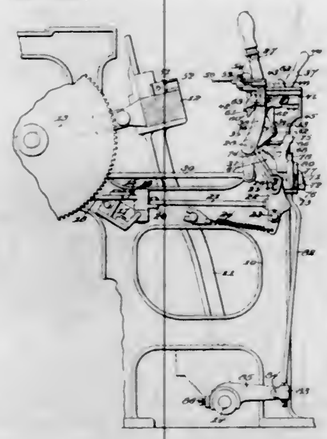
1. A stellar time indicator comprising a disk having a central opening and a marginal scale, a longitudinal-

ly slotted arm adapted to be positioned to lie wholly within the margin of said disk, means associated with said central opening having an opening in alignment



therewith, said slotted arm being rotatably and slidably carried by said means and having a line thereon which, if projected, would intersect the center of said disk.

1,676,913. FEELER LOOM. JONAS NORTHROP, Hopedale, Mass., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 30, 1927. Serial No. 187,817. 15 Claims. (Cl. 139—229.)



1. A feeler loom having, in combination, a lay, a shuttle, a feeler mounted to enter the shuttle and detect the condition of the filling, a trip lever connected with the filling feeler, a shipper lever for starting and stopping the application of power to the loom, a brake lever for applying a braking force to the loom, connections between the shipper lever and the brake lever having provision for throwing off the brake when the shipper lever is moved to starting position, and for throwing off the shipper lever when the brake is applied, and delay-action means under the control of said trip lever for applying the brake and shifting the shipper to disconnect the power.

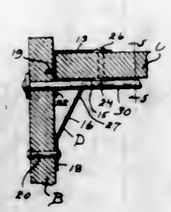
1,676,914. COIN-SELECTING MECHANISM. CHARLES J. PAULSON, Brooklyn, N. Y., assignor of one-third to Matthew V. O'Malley, Brooklyn, N. Y. Filed Feb. 4, 1925, Serial No. 6,685. Renewed May 19, 1928. 7 Claims. (Cl. 194—97.)

1. The combination with a coin box having a receiving slot, of a tiltable inclined guide displaceable by an entering coin, a shield hung upon said guide, said shield and guide forming a passage-way which directs true coins to a predetermined exit, lodgement means in said



passageway, for spurious coins, and means for separating the shield from the guide in the tilting action of the latter to permit ejection of a lodged spurious coin.

1,676,915. LADDER. RICHARD F. SCHULZKE, Portland, Oreg., assignor to Zoss Ladder Works, Portland, Oreg., a Corporation of Oregon. Filed Oct. 11, 1926. Serial No. 140,945. 1 Claim. (Cl. 228—58.)

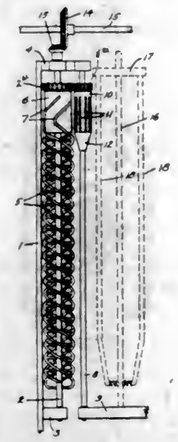


In a step ladder comprising uprights and treads extending between the uprights, means for securing the ends of the treads to the uprights, comprising bracket members each embodying an end plate having ears formed at the ends thereof for attachment to the front and rear edges of an upright, a rest plate extending inwardly from the lower edge of the end plate and having an apertured tongue, a brace plate depending at an acute angle from the inner end of the rest plate and having a foot portion at its lower end for attachment to the upright, a tie plate extending inwardly from the upper edge of the end plate and having an aperture for vertical alignment with the aperture in said tongue, and a fastening element passing through the tread and said aligning apertures for securing of the bracket to the tread.

1,676,916. CONVEYER FOR CORN HARVESTERS. ANDERS OLSON, Galesburg, Ill., assignor of one-half to Swan Hanson, Galesburg, Ill. Filed July 27, 1925. Serial No. 46,286. 1 Claim. (Cl. 56—110.)

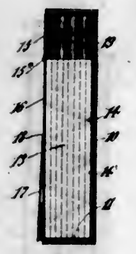
In a device of the class described, in combination with a spiral conveyer and snapping bar rotatably mounted in parallel relation therewith, a cylindrical head at the upper end of said conveyer upon which the

spirals are extended in a reverse direction, a grooved roller on the upper end of said snapping bar of relatively smaller size than said head, and in proximity



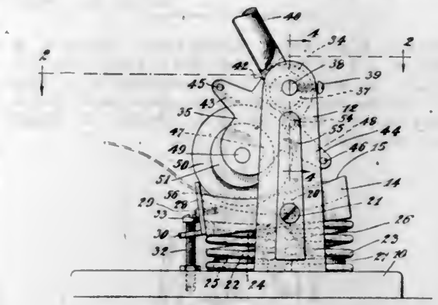
thereto, and means for operating said head and roller in a direction to draw material downwardly between the same.

1,676,917. DISPLAY CONTAINER. GEORGE E. PARMENTER, New York, N. Y., assignor to The American Crayon Company, Sandusky, Ohio, a Corporation of Ohio. Filed Mar. 26, 1926. Serial No. 97,549. 1 Claim. (Cl. 206—44.)



A display carton comprising a container body having a fixed rear wall with an easel support to hold the body in an inclined position, a bottom wall, side walls, and a front wall cut-away at its upper portion, said fixed rear wall and said side walls being severed transversely near the upper ends thereof and said severed rear wall portion hingedly joined to the fixed rear wall, a top connecting the severed rear and side wall portions, partitions in the container body for extending up approximately to the line of severance for holding separate groups of long goods which project above the line of severance and are adapted to be housed at their upper ends partially by the hinged severed portions of the side and fixed rear wall, and an integral flanged cover inserted over the container body and hinged severed portions from the front side of the carton.

1,676,918. FORK-TINE STRAIGHTENER. JOHANNES TH. PEDERSEN, Flushing, N. Y. Filed Nov. 23, 1926. Serial No. 150,178. 8 Claims. (Cl. 153—45.)



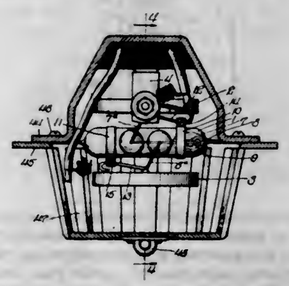
1. In a fork tine straightener, a base, a block yieldingly mounted on the base, a swinging frame, means for moving the swinging frame across the face of the block, and a revoluble member carried by the swinging frame and adapted to cooperate with a fork placed between the same and the block for straightening the tines of the fork as the said revoluble member is carried by the frame across the face of the block.

1,676,919. PROCESS FOR MAKING HOLLOW RIVETS. LAWRENCE M. PERSONS, Chicago, Ill., assignor to Cook Electric Company, Chicago, Ill., a Corporation of Illinois. Original application filed Oct. 20, 1920, Serial No. 418,306. Divided and this application filed May 23, 1923. Serial No. 640,823. 5 Claims. (Cl. 10—27.)



3. The method of forming a tubular rivet comprising stamping transverse serrations in a piece of sheet material and at the same time turning up the longitudinal edges of such sheet material and thereafter bending said sheet into tubular form so that the serrations provide internal threads for the completed tubular rivet.

1,676,920. ELECTRICAL SWITCH. LOUIS A. M. PHELAN and CLIFFORD HOTCHKISS, Beloit, Wis., assignors, by direct and mesne assignments, to Absolute Con-Tac-Tor Corporation, a Corporation of Indiana. Filed Nov. 29, 1922, Serial No. 604,021. Renewed May 2, 1928. 8 Claims. (Cl. 200—139.)



1. The combination with an actuator, of a liquid contactor tube, and means for mounting said tube in a manner to be rotatable about its transverse axis by said

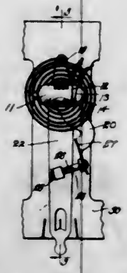
actuator, said means comprising clamps at spaced points on said tube and rods extending from said clamps to points on said axis and then along said axis.

1,676,921. ELECTRICAL APPARATUS. LOUIS A. M. PHELAN and CLIFFORD HOTCHKISS, Beloit, Wis., assignors, by direct and mesne assignments, to Absolute Con-Tac-Tor Corporation, a Corporation of Indiana. Filed Dec. 23, 1922. Serial No. 608,703. 24 Claims. (Cl. 200—139.)



1. A thermostatic switch comprising a coiled thermostatic element, a liquid contactor wholly supported on and movable with said element, a body of conducting liquid housed in said contactor, and an adjustable supporting means for said element for adjusting the position of said contactor.

1,676,922. ELECTRICAL APPARATUS. LOUIS A. M. PHELAN, Elkhart, Ind., assignor, by mesne assignments, to Absolute Con-Tac-Tor Corporation, a Corporation of Indiana. Continuation of application Serial No. 652,539, filed July 19, 1923. This application filed Oct. 7, 1925. Serial No. 60,940. Renewed Jan. 12, 1928. 10 Claims. (Cl. 200—139.)



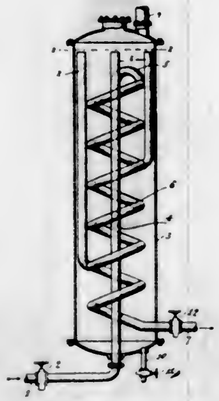
1. A thermostatic switch comprising a spiral thermostatic coil, a liquid contactor tube mounted at one end of said coil, a regulating arm for adjusting the angular position of said tube thereby permitting said coil to operate said tube at predetermined temperatures, and a support at the opposite end of said coil and attached to said regulating arm, said support having relative adjustment with respect to said regulating arm.

1,676,923. ELECTRICAL APPARATUS. LOUIS A. M. PHELAN, Elkhart, Ind., and CLIFFORD HOTCHKISS, Milwaukee, Wis., assignors, by direct and mesne assignments, to Absolute Con-Tac-Tor Corporation, a Corporation of Indiana. Original application filed Dec. 23, 1922, Serial No. 608,703. Divided and this application filed Dec. 7, 1927. Serial No. 238,332. 10 Claims. (Cl. 200—139.)



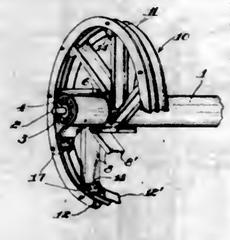
1. A thermostatic switch comprising a coiled thermostatic element, supporting means adjacent to one end of said element, a liquid contactor wholly supported upon the other end of said element, and a body of conducting liquid disposed in said contactor and having a substantially stationary center of gravity.

1,676,924. PROCESS AND APPARATUS FOR CRACKING OIL. ROBERT T. POLLOCK, New York, N. Y., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Apr. 11, 1921. Serial No. 460,525. Renewed Mar. 15, 1928. 3 Claims. (Cl. 196—58.)



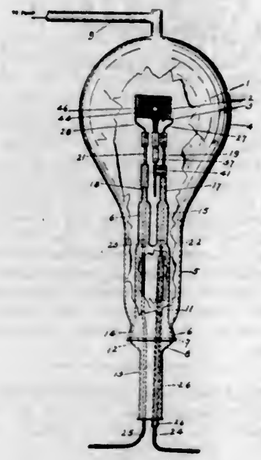
1. The process of vaporizing hydrocarbon oils, which consists in passing oil that has been heated in a furnace to a distilling temperature in a restricted stream through a vaporizing zone located outside of the furnace where no rise in temperature of the oil occurs, in releasing vapors from said stream into said zone at different intervals during the travel of the oil through said zone in said restricted stream.

1,676,925. BULL WHEEL. CARL B. PRITCHARD, Scottdale, Pa. Filed May 13, 1925. Serial No. 29,914. 6 Claims. (Cl. 64—17.)



1. In a bull wheel structure the combination of a shaft, a plurality of wing plates rigidly anchored to the shaft and spaced circumferentially thereof, a channel spoke connected to each of said plates, and a one-piece integral rim having a peripheral face and inturned flanges extending radially inwards at its opposite edges defining the width of the rim, the outer extremities of the said spokes neatly fitting within the space between said inturned flanges of the rim with the side flanges of the spokes rigidly fastened to said inturned flanges.

1,676,926. HIGH-FREQUENCY FURNACE. HARVEY CLAYTON RENTSCHLER and JOHN WESLEY MARDEN, East Orange, N. J., assignors to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Jan. 5, 1925. Serial No. 475. 5 Claims. (Cl. 226—15.)



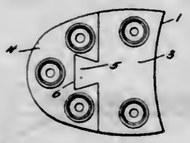
1. A furnace comprising an hermetically sealed vessel, means connecting said vessel to an exhaust pump, a removable mount for said vessel, said mount comprising a hollow tubular member open at one end and terminating in a press at the other end, a plurality of leading-in wires sealed in said press, main supports connected to said leading-in wires, a high frequency induction coil carried by said supports, and a material support connected to one of said main supports, said material support being composed in part of a material which does not react with the material undergoing treatment.

1,676,927. MARKER FOR TREES, PLANTS, AND FLOWERS. JOSEPH C. RICHARD, North Long Branch, N. J. Filed May 4, 1926. Serial No. 106,629. 1 Claim. (Cl. 40—19.)



A marker comprising a transparent, waterproof, cylindrical member having one end integrally sealed, a closure for the other end of the cylinder frictionally held in the open end of the latter, and a supporting reversible, penetrating implement passed through and frictionally held in the closure, said implement having a headed end to prevent withdrawal from the closure in one direction.

1,676,928. SHOE HEEL. BERNARD RUPERT RYAN, Sydney, New South Wales, Australia. Filed Mar. 3, 1925, Serial No. 12,922, and in Australia May 2, 1924. 1 Claim. (Cl. 36—35.)



In a shoe heel, a top lift comprising a front portion adapted to be permanently secured to the shoe, and a rear portion adapted to be removed and replaced without disturbing said front portion, both of said portions being provided with wedge shaped recesses, and a plug fitting in said recesses and locking said portions together, said plug being made of a non-slipping composition.

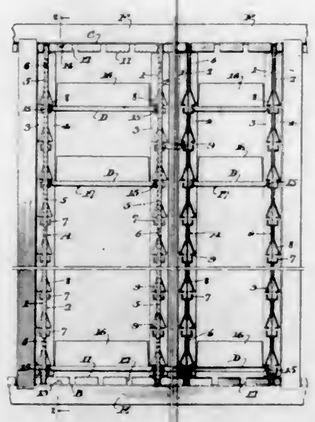
1,676,929. COPPER CHROMIUM FERROUS ALLOYS. BYRAMJI D. SAKLATWALLA, Crafton, Pa. Filed Apr. 7, 1924. Serial No. 704,633. 9 Claims. (Cl. 75—1.)

1. A ferrous alloy containing carbon, about 8 to 25% chromium, .5 to 5% copper and 1 to 3% silicon.

1,676,930. METALLIC SHELVING. FRED A. SCHMITZ, Canton, Ohio, assignor to The Berger Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed Sept. 20, 1927. Serial No. 220,679. 4 Claims. (Cl. 211—135.)

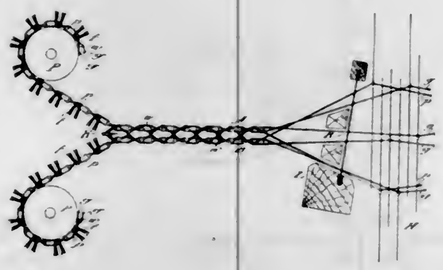
4. Metallic shelving including uprights having vertically spaced, open-ended, shelf supports pressed outwardly

beyond the plane of the body of the uprights, and extending from the front to the rear of the uprights, and closed-end guards pressed outwardly beyond the plane



of the body of the uprights; said guards being disposed directly above, and alternating with, said supports, and terminating short of the ends of the supports.

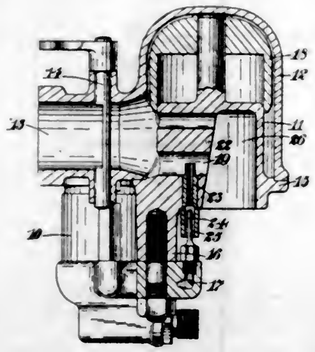
1,676,931. MANUFACTURE OF COLORED PILE FABRICS. GEORGE E. SHIPWAY, Noroton, Conn., assignor to The Salt's Textile Manufacturing Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 24, 1925. Serial No. 77,656. 7 Claims. (Cl. 139—391.)



1. As a new article of manufacture, a velvet fabric woven from warp, weft and pile yarns dyed respectively to different colors and combined in the weave to blend the several colors to give the pile a different color as the face of the fabric is viewed from various angles.

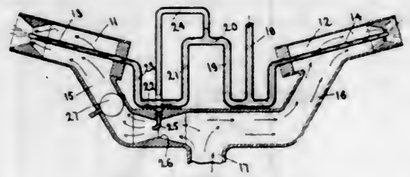
1,676,932. CARBURETING DEVICE. HERBERT WILLIAM SPILLER, London, England, assignor to S. Smith & Sons (Motor Accessories) Limited, London, England, a British Company. Filed Jan. 4, 1927, Serial No. 158,985, and in Great Britain Jan. 22, 1926. 3 Claims. (Cl. 261—41.)

1. In a carbureting device, the combination of a suction chamber having a delivery passage at one side thereof, a duct block in the chamber, a cavity extending into the duct block, of relatively large cross sectional area and constituting an air intake, a plurality of separate short straight ducts each of relatively small cross-sectional area, each extending through said duct-block from the cavity to the suction chamber in alignment



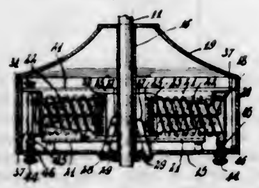
with the said delivery passage therefrom and a suction-operated valve movable on the duct-block to cover and uncover the delivery mouths successively.

1,676,933. FUEL CONTROL FOR LIQUID-FUEL BURNERS. CECIL W. STANCLIFFE, New York, N. Y., assignor to Valveless Oil Burner Corporation, New York, N. Y., a Corporation of New York. Filed June 18, 1923. Serial No. 646,088. 34 Claims. (Cl. 158—35.)



1. In an oil burning apparatus, the combination with an oil conduit having connected legs forming, in series, two upright U-tubes and an intermediate inverted U-tube, of a container in which gas under pressure may be contained, and a pipe leading from said container to the upper part of said inverted U-tube and entering the same from above, together with means for supplying oil to such conduit at such pressure that, when the pneumatic pressure in the container is below a predetermined amount, oil may flow through said inverted U-tube, and when such pneumatic pressure is above such amount, an air lock is formed in the inverted U-tube preventing flow of oil therethrough.

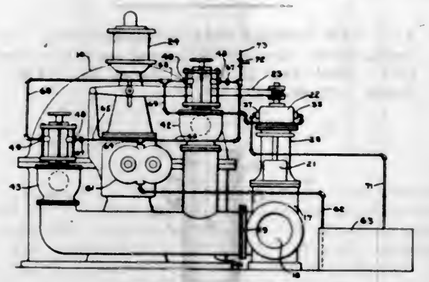
1,676,934. PORTABLE-LAMP ATTACHMENT. DEMETRIOS P. STERGIANOPULOS, New York, N. Y. Filed Nov. 26, 1926. Serial No. 150,859. 3 Claims. (Cl. 312—172.)



1. In a portable lamp attachment of the class described, a tubular member adapted to be disposed around an upright member of a portable lamp, a bowl shaped

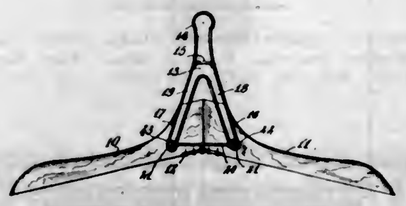
base member mounted on said tubular member and having apertures in the sides thereof, a casing rotatively mounted on said bowl shaped base member, and formed with extended elements covering the said apertures, radial guide members having grooves therein, mounted in the said base member in registration with said openings, supports slidably mounted in the grooves of said guide members, lazy tong members attached at one end to the said supports, and adapted to extend thru the openings in said base member when the casing is turned to move the extended elements from said openings, the said slidably mounted supports being adapted to move forwardly in the direction of the sides of said base member for further extending said lazy tongs thru said apertures, and means for normally urging the supports into this forwarded position.

1,676,935. POWER PLANT. GEORGE C. TAYLOR, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 30, 1925. Serial No. 46,993. 5 Claims. (Cl. 137—158.)



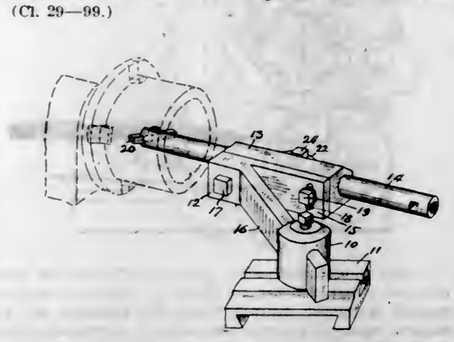
1. In a power plant, the combination of a turbine, a motive fluid admission valve for the turbine, a governor for actuating the motive fluid admission valve, a supplementary motive fluid admission valve for the turbine, manually operated means for opening or closing the supplementary admission valve, and fluid pressure means responsive upon an abnormal decrease or increase in the speed of the turbine for opening the closed supplementary admission valve or for closing the opened supplementary admission valve.

1,676,936. GARMENT HANGER. DIANA R. TREVINO, Roma, Tex. Filed Aug. 23, 1927. Serial No. 214,809. 4 Claims. (Cl. 223—65.)



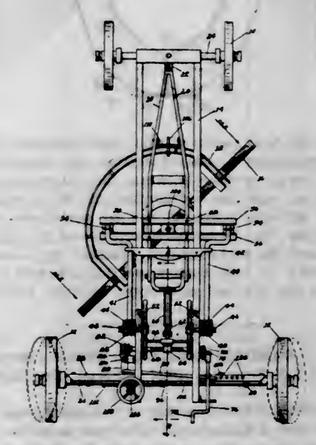
1. In a garment hanger, a pair of shoulder members hingedly connected at their inner ends and adapted to bear against each other above the point of the said hinged connection, a supporting frame of inverted Y formation having guide elements provided with elongated open spaces closed at their lower extremities, and flanged pivot members passing through the said open spaces and bearing freely against the sides of the said guide elements, means to limit the spread of the said guide elements at their lower ends, and means to support the frame elements above the upper portions of the said guide members, and means to suspend the whole from any suitable object.

1,676,937. ADJUSTABLE BORING-BAR HOLDER. ERIC E. VIDARSHOF, Westby, Wis. Filed Feb. 17, 1923, Serial No. 619,671. Renewed Apr. 25, 1925. 3 Claims. (Cl. 29—99.)



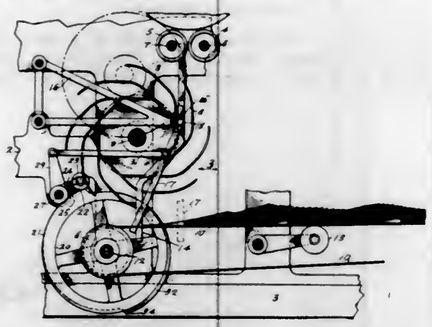
1. In a boring bar holder, a clamping member bored longitudinally for the reception of the bar, and provided with a slit extending outwardly of the bore, means engaging the slitted portion to clamp the boring bar in longitudinally adjusted position and prevent rotation thereof, in combination with a supporting member upon which the clamping member is pivotally mounted to permit vertical adjustment of the bar, and means for maintaining such vertical adjustment, the said supporting member being provided with a branch whereby the boring bar holder is supported in position for operation.

1,676,938. ROAD GRADER. HORACE R. WILSON and FRED D. WILSON, Harvey, Ill. Filed Sept. 22, 1926. Serial No. 137,143. 27 Claims. (Cl. 37—157.)



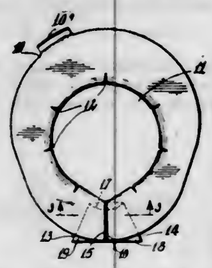
2. A road grader, in combination, a moldboard, a main frame supporting the moldboard, tiltable carrying wheels supporting the main frame and means operatively connecting the moldboard and wheels causing simultaneous co-action thereof.

1,676,939. COUNTING MECHANISM. ERNEST G. BEVERIDGE, Brooklyn, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed Sept. 23, 1925. Serial No. 57,999. 9 Claims. (Cl. 93—93.)



1. The combination with means for forwarding products, of a flat delivery to which the products are forwarded, a pusher against which the products are forwarded, means for giving the pusher a forwarding movement with the products, the extent of this forwarding movement determining the number of products forwarded against the pusher, means for effecting a quick return movement of the pusher to separate the products into bunches, and means for varying the forward movement of the pusher.

1,676,940. SANITARY TOILET-SEAT COVER. BRIDGET T. BING, New York, N. Y. Filed Oct. 11, 1927. Serial No. 225,427. 4 Claims. (Cl. 4—243.)



1. A toilet seat cover of the class described comprising a substantially U-shaped section, an inner front section, and outer sections between the extremities of said inner section and the extremities of the U-shaped section, said sections being divided by perforated lines extending from the inner edge to the outer edge thereof and disposed in superimposed relation with said inner front section in the bottom portion of said U-shaped section on the top and said outer sections therebetween.

1,676,941. GARDEN ROLLER. TOMAS CANTU, Elgin, Tex. Filed Oct. 24, 1927. Serial No. 228,196. 3 Claims. (Cl. 55—6.)

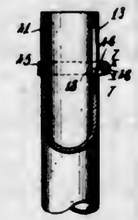
1. A garden roller comprising a roller proper, and a handle divided longitudinally into two sections, pivotally attached to one another, and means for locking said sections against relative swinging movement, said means being releasable by pulling on the handle.

3. In a garden roller, a roller proper, a handle divided longitudinally into two sections pivotally attached together, an arcuate toothed face formed on the inner section, a locking bolt slidable longitudinally of the other section and adapted to engage said toothed face, a pair of arms hinged to the said other section and connected to said bolt, a pair of normally alined links connected to the ends of said arms and adapted on buckling movement of the links upon one another to swing said arms and



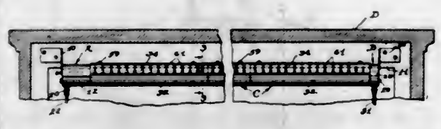
release said bolt, and releasable means holding said links against said buckling movement, said means comprising a slotted plug to which said links are pivoted at adjacent ends, and a sleeve rotatable on said plug and slotted along one side.

1,676,942. ORGAN-PIPE CONSTRUCTION. GYULA CESAR, Sopron, Hungary, assignor of one-half to Stephen Toth. Filed Aug. 23, 1927. Serial No. 214,811. 2 Claims. (Cl. 84—349.)



2. In a sound pipe of the class described, a body of non-metallic elemental structure, provided with an intake and air vent, and having a tone control aperture, a supporting band engaged upon the said body, and formed with side lips, a slotted winding pin mounted for rotation in the said lips, a slotted head at one end of the winding pin for turning purposes, a nut engaged upon the other end of the said pin for holding the pin against displacement, and a non-elastic ribbon secured at one end on the said body, and the other end engaging the slot in the pin, and arranged for varying the area of the tone control aperture upon turning of said slotted head.

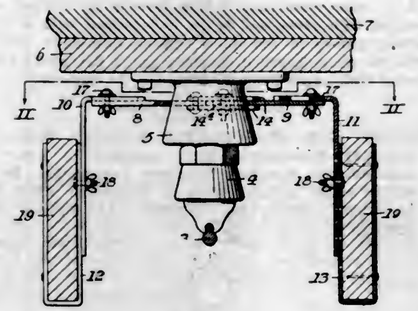
1,676,943. HUMIDIFIER FOR CIGAR CASES. JAMES BURGESS DARGAVEL, St. Paul, Minn. Filed Nov. 2, 1925. Serial No. 66,173. 10 Claims. (Cl. 131—30.)



8. An elongated assembly of sections comprising intercommunicating receptacles joined end-to-end, each section comprising a trough-like body of sheet metal and end-plates at the extremities thereof, means for securing together the abutting end-plates of said sections, the

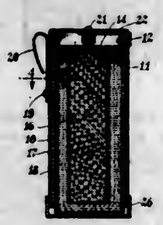
longitudinal margins of each body being turned to form strengthening ribs providing rails, a sliding cover for each body, each cover being formed with rider portions bearing upon said rails and also formed with apertures therein, and a sliding closure for each apertured cover, each closure having apertures therein arranged to register with the apertures in its respective cover in one position of the closure.

1,676,944. GUARD BRACKET FOR ELECTRIC WIRES. LAWRENCE DAVIS'N, Edmon, Pa., assignor of one-fourth to William Goudy and one-fourth to D. H. Slonaker, Avonmore, Pa. Filed Aug. 20, 1927. Serial No. 214,252. 10 Claims. (Cl. 191—35.)



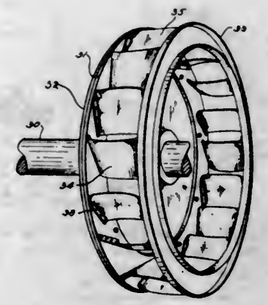
1. A guard bracket comprising a pair of collar members arranged to embrace a hanger, means for pivotally connecting said members at one end for movement about an axis perpendicular to the plane of the collar members, means for adjusting the point of pivotal connection, in a direction tangentially of the said members, means for detachably connecting the other ends of said collar members, and a guard rail support carried by each of the collar members.

1,676,945. DRY-CELL BATTERY. LAURENCE VICTOR ELLIS, New York, N. Y. Filed Jan. 5, 1928. Serial No. 244,618. 8 Claims. (Cl. 136—132.)



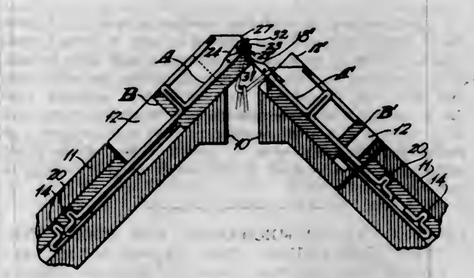
1. A refillable cell for a dry battery, comprising a zinc cup provided with a shoulder near its upper end, a rubber stopper forced into the top of the cup and against the shoulder, a rod with a bottom cup disposed through the center of the stopper, a carbon post with a reduced portion engaged in said bottom cup, electrolyte in the space between the carbon post and the zinc cup, a casing over said zinc cup, a contact strip on the inside of the casing and engaging the zinc cup, a contact on the outside of the casing connected with the contact strip by means of a rivet, a contact strip in the top of the casing, and projecting therefrom, a cup adjacent the contact strip, a rivet holding the latter cup and contact strip to the top of the casing, the said rod, disposed in the stopper engaged in the latter mentioned cup, and a bottom cover for the casing.

1,676,946. CENTRIFUGAL PUMP. CARL J. FECHHEIMER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 31, 1926. Serial No. 158,223. 24 Claims. (Cl. 103—115.)



1. A centrifugal impeller for impelling fluids, embodying a plurality of backwardly directed blades, the blades being curved with respect to planes which pass through the longitudinal axis.

1,676,947. KNITTING NEEDLE. FRANKLIN M. FRAZIER, Placerville, Colo. Filed Jan. 26, 1927. Serial No. 163,582. 4 Claims. (Cl. 66—64.)

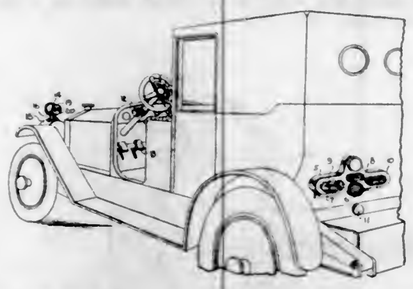


4. The combination in a knitting machine having opposing needle beds, of latch needles adapted to coact in opposing pairs, and a jacket mounted in one of the needle beds coacting with a needle in its respective bed to cast the yarn therefrom, and means for contacting said jacket with the hook of the opposing needle for reception of the yarn from said jacket, said contact being effected prior to casting the yarn onto the jacket.

1,676,948. ELECTRIC SIGNAL FOR AUTOMOBILES. HARRY E. GORDON and GEORGE D. GORDON, Rochester, N. Y. Filed Nov. 29, 1922. Serial No. 604,067. 1 Claim. (Cl. 177—339.)

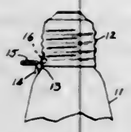
In a signal system for automobiles, the combination of means for displaying an electric signal at the rear denoting a right or left hand turn, said means including an electric circuit and a circuit closer, said circuit including a relay, a second circuit having contacts closed by the operation of the relay when the first-mentioned circuit is closed, a front signal light in said second circuit which is visible to the driver, another circuit through the relay winding having an individual circuit closer, a rear stop

signal in said last-mentioned circuit, and a circuit through said contacts and said last-mentioned circuit closer connected in parallel with said second circuit and



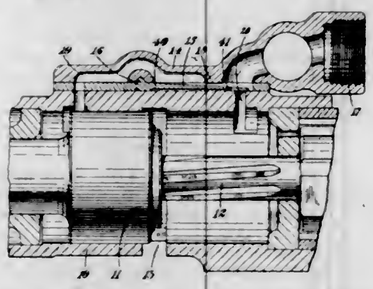
including an audible signal adjacent to the stop signal, whereby to attract the attention of drivers in the rear when the stop signal is displayed.

1,676,949. METHOD OF SOLDERING LEADING-IN WIRES TO LAMP BASES. JOHN JOSEPH HIGGINS, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Apr. 21, 1923. Serial No. 633,798. 8 Claims. (Cl. 176—32.)



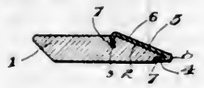
1. The method of soldering leading-in wire to a base which comprises bending a leading-in wire to form a loop, drilling a hole in said base, positioning said loop in said hole, inserting an end of a rod of fusible material into said hole and in contact with said loop, severing said rod to permit a short section thereof to project from said hole, moving a heated member to fuse said section and positioning the lamp so as to permit a flow of the fused material along a portion of the length of said leading-in wire.

1,676,950. VALVE MECHANISM FOR FLUID-OPERATED ROCK DRILLS. JOHN LEONARD HOLMAN and ARTHUR TREVE HOLMAN, Camborne, England, assignors to Holman Brothers Limited, Camborne, England, a British Company. Filed Jan. 20, 1927. Serial No. 162,313, and in Great Britain Oct. 14, 1926. 9 Claims. (Cl. 121—19.)



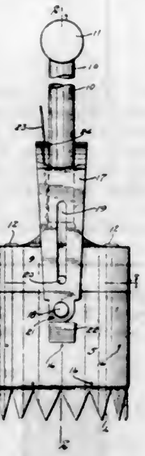
1. For a fluid-operated rock-drill, the combination of a valve-chamber having two outlet-ports leading therefrom, a swinging flap-valve which is hinged at one end in said chamber and which has two valve-faces for controlling respectively the two outlet-ports and means which, when one valve-face is held against one of said ports by pressure of driving-fluid on its opposite face, will admit driving-fluid also to that valve-face which is held against the outlet-port but not that portion that covers the port, so as at least partially to balance the pressure of the driving fluid acting on its other face to hold the valve closed.

1,676,951. RULER. HENRY E. HUNT, Toronto, Ontario, Canada. Filed June 13, 1927. Serial No. 198,466. 2 Claims. (Cl. 33—107.)



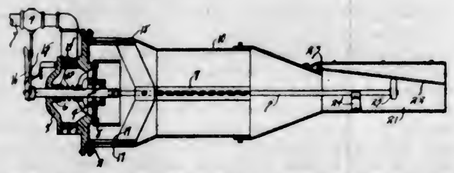
1. A ruler comprising a body having its forward edge bevelled both above and below and formed with a longitudinal groove in its upper surface forming a dovetail with the under bevelled surface; and a flat metal facing having both edges flanged to engage the dovetail.

1,676,952. ICE-CREAM-CARTON FILLER. BURTON L. HUNTLEY, Minneapolis, Minn., assignor, by mesne assignments, to Speedpak Dispenser Corporation, Minneapolis, Minn., a Corporation of Delaware. Filed June 18, 1926. Serial No. 116,833. 14 Claims. (Cl. 226—19.)



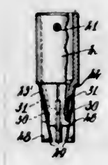
1. An ice cream carton filler comprising a cylindrical carton container, a cap for said container, a stem projecting from said cap, and a lever in the form of a yoke pivoted to the sides of said container and slidable on said stem, said yoke in its arms having longitudinal slots and said cap having diametrically projecting lugs working in said slots.

1,676,953. GAS BURNER. MORTIMER JONES, Fort Worth, Tex. Filed July 11, 1927. Serial No. 204,885. 6 Claims. (Cl. 158—119.)



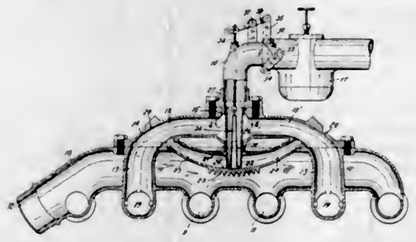
3. A gas burner comprising a combined air receiving and mixing chamber, a gas feeding chamber connected thereto, a gas supply means for delivering gas to said gas feeding chamber and a gas supply control, gas feed control means partly in said gas feeding chamber and partly in said air receiving chamber, an air feed control means in said air receiving chamber, a nozzle connected to said mixing chamber and an explosive mixture discharge control in said nozzle, and a shaft journaled in said burner and operatively connected to all of said controls for actuating the same simultaneously.

1,676,954. FLAGPOLE HOLDER FOR GOLF COURSES. GEORGE E. KANNEMANN, Woodbury, N. Y. Filed Apr. 18, 1928. Serial No. 270,865. 5 Claims. (Cl. 273—34.)



1. A bushing for a device of the class described, comprising a main portion arranged for connection with a golf pole, and a shoulder and reduced portion connected therewith and provided with wedge members slidably mounted and being capable of snugly engaging in a cup opening of a golf hole bracket for holding an engaged golf pole in a vertical position.

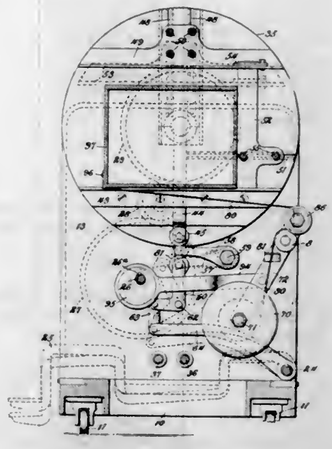
1,676,955. INTAKE MANIFOLD FOR INTERNAL-COMBUSTION ENGINES. WILLIAM E. KEMP, New York, N. Y. Filed May 17, 1924. Serial No. 714,144. 10 Claims. (Cl. 123—122.)



1. The combination with a heater, of a branched intake-manifold having a duct extending into said heater and communicating with the branches of the manifold, said manifold being provided with an inlet at the point of junction of the branches thereof and situated to permit of an initial downward flow of the combustible charges thereinto, a passage in said manifold in alignment with said inlet and leading downwards to said duct, and means inserted between the inlet to said manifold and said passage for leading liquid particles which have separated from the charges to the bottom of said duct.

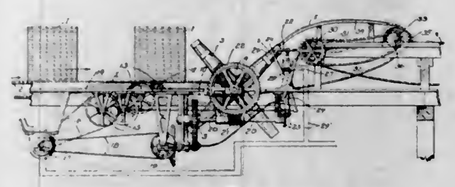
1,676,956. ROTARY BINDING MACHINE. JAMES MARSHALL LEAVER, Jr., Oakland, Calif. Filed May 10, 1920. Serial No. 380,376. 70 Claims. (Cl. 100—31.)

19. In a machine of the class described, a drive shaft, power means for turning said shaft, a clutch interposed between the power means and the shaft, said clutch permitting a single rotation of the shaft at one time, rotatable means for supporting an article, means interposed between said supporting means and the drive shaft whereby the supporting means is rotated once on its axis during each cycle of the machine, means for wrapping a band about the article during said rotation, and means automatically yielding and retracting said band while being wrapped about the article.



29. In a machine of the class described, a plurality of rotary chucks, means on each chuck for supporting and clamping a bundle, means to simultaneously rotate the chucks, means for controlling the two previously mentioned means, said last-named means operating to first cause clamping of the bundle, then rotation of the bundle, and finally releasing the bundle, means for placing a band about the bundle during the rotation, means for tensioning the band, and means for compensating for the variation of tension caused by the rotation of the bundle.

1,676,957. METHOD AND APPARATUS FOR UNSTACKING LUMBER. JAMES M. LEAVER and JAMES M. LEAVER, Jr., Oakland, Calif. Filed Apr. 7, 1924. Serial No. 704,714. 13 Claims. (Cl. 214—8.5.)

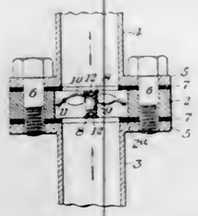


1. In a lumber unstacker of the character described two sets of spider arms projecting radially from a common shaft, said sets of arms being arranged to embrace between the sets an obtuse angle for support of a lumber unit against both sets of arms and whereby the supported sides of the unit will form the same obtuse angle and the edges of the boards of the unit will become in stepped relation, one to the other.

1,676,958. FUEL-MIXING DEVICE. JAMES P. MALONE, Pittsburgh, Pa. Filed Feb. 13, 1926. Serial No. 88,026. 1 Claim. (Cl. 48—180.)

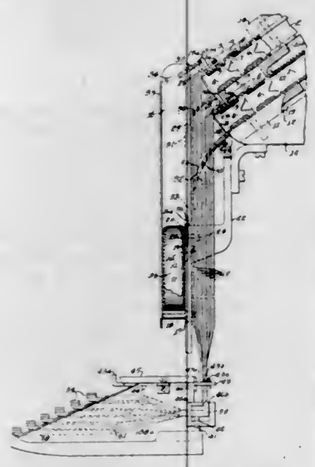
A fuel mixing device of the class described including a body member, supporting means on the body member, a fan wheel rotatably mounted on the supporting means, said fan wheel having a plurality of vanes, and a sinuous

rim connecting the outer ends of the several vanes, and an auxiliary air inlet passage through the body in the plane of the wheel and opening toward the wheel out of



line with the center thereof, said sinuous rim permitting air entering through the opening to contact with the vanes of the wheel.

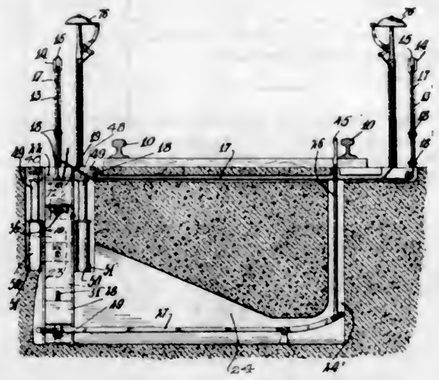
1,676,959. TYPOGRAPHICAL MACHINE. GEORGE E. MARLATT, Pasadena, Calif. Filed Sept. 29, 1925. Serial No. 59,299. 11 Claims. (Cl. 199—19.)



1. In a typographical machine having magazines containing fonts of matrices arranged in channels irregularly spaced apart according to the thickness of the matrices in individual channels, two fonts of matrices arranged in alternating channels of said magazines, two corresponding sets of escapements irregularly spaced apart according to the spacing of said channels, actuating devices for said escapements, and means for selectively connecting said actuating devices with one or the other of said sets of escapements regardless of the irregular spacing apart thereof, said means consisting in bending portions of said escapements so that all pairs of alternating escapements will be equally spaced at the point where they are engaged by the said escapement-actuating devices.

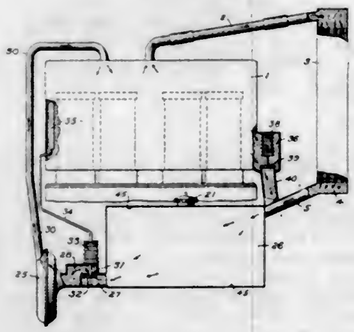
1,676,960. AUTOMATIC RAILROAD GATE. ZOLTAN MOLNAR, Welland, Ontario, Canada, assignor of one-fourth to Mihaly Szabo Czorboy and one-fourth to Mihaly Grebecz. Filed Mar. 4, 1927. Serial No. 172,628. 4 Claims. (Cl. 39—7.)

1. An automatic railroad gate, comprising a gate, a pair of weights to operate the gate, means for releasing the bottom one of said weight to close the gate, means for reattaching the weights leaving the gate closed, and means for releasing both of the weights to open the gate.



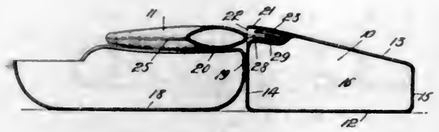
3. An automatic railroad gate comprising a gate, a flexible cable connected thereto, a pair of weights to operate the gate, the top weight of said pair of weights being connected to the cable, means for releasing the bottom one of said weights to close the gate, means for reattaching the weights leaving the gate closed, and means for releasing both of the weights to open the gate.

1,676,961. PROCESS OF AND APPARATUS FOR COOLING INTERNAL-COMBUSTION ENGINES. WELLINGTON W. MUIR, Lockport, N. Y., assignor to Harrison Radiator Corporation, Lockport, N. Y. Original application filed Nov. 20, 1922, Serial No. 602,267. Divided and this application filed Dec. 17, 1923. Serial No. 681,186. 15 Claims. (Cl. 123—178.)



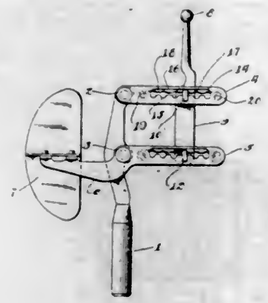
1. In a cooling system for an internal combustion engine, the combination of a jacket; a radiator; a tank disposed below said jacket and radiator; connections leading from the bottom of said radiator and from said jacket directly to said tank and adapted to keep said radiator and jacket empty of liquid while the temperature of said jacket is below a predetermined point when the engine is operating; and means for automatically passing liquid into said jacket when the engine is running and the temperature of said jacket is above another predetermined point.

1,676,962. COMFORT CUSHION. CHRISTENA MURPHY, New York, N. Y. Filed May 8, 1926. Serial No. 107,577. 5 Claims. (Cl. 4—113.)



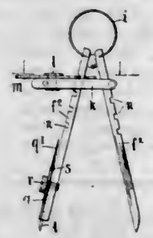
1. A comfort cushion, for use with a bed pan, and including a pair of cushion sections assembled together, one of said sections being thicker than the other and adapted to be positioned laterally of a bed pan at the upper edge thereof, and the other section being adapted to overlie a portion of the rim of the bed pan.

1,676,963. ADJUSTABLE WIND-VANE SIGHT. CHARLES L. PAULUS, Dayton, Ohio. Filed June 27, 1923. Serial No. 648,119. 5 Claims. (Cl. 33—53.)



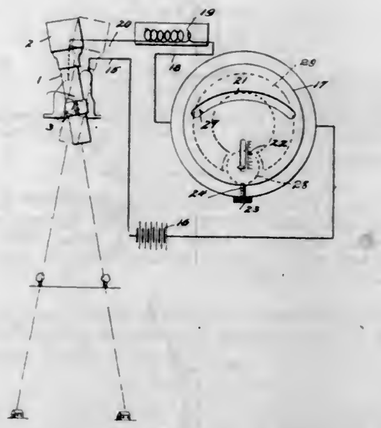
5. A wind vane sight for fire arms comprising a support, notched parallel arms pivotally mounted on said support, wind vane means controlling the movement of said arms, a bead supporting device adjustably connected to said arms and selectively engaged with said notches, and means for maintaining said connection.

1,676,964. DIVIDER OR COMPASS. ERNEST LOUIS RANKIN, London, England. Filed Sept. 3, 1924. Serial No. 735,673, and in Great Britain Sept. 5, 1923. 4 Claims. (Cl. 33—153.)



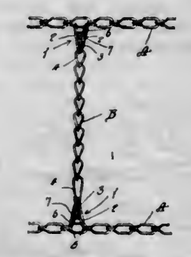
4. A divider comprising pivotally connected limbs, a support adjustable to predetermined positions on one limb, and a plate having a cam groove therein rotatable mounted on the said support and means on the other limb in contact with the periphery of the said cam groove.

1,676,965. GROUND-SPEED INDICATOR. HERBERT O. RUSSELL, Detroit, Mich., and CHARLES LEIGH PAULUS, Dayton, Ohio. Filed Apr. 18, 1922. Serial No. 555,410. 2 Claims. (Cl. 33—46.5.)



1. In combination in a ground speed indicator for aircraft, a sight, means pivotally mounting said sight for training on a stationary object, an electric circuit including a make and break mechanism, a galvanometer and induction coil, and gearing connecting said sight and make and break mechanism to operate the latter at a speed proportional to the rate of pivotal movement of the sight to cause said galvanometer to give an indication proportional to the ground speed of said craft.

1,676,966. CONNECTING LINK FOR CROSS CHAINS OF ANTISKID CHAINS. ROYAL A. SEAGER, Ogden, Utah. Filed June 23, 1927. Serial No. 200,938. 3 Claims. (Cl. 24—237.)



1. An anti-skid chain, comprising links adapted to connect the ends of cross chains to side chains and having spaced members to engage links of the side chains at the ends thereof to prevent longitudinal movement of the cross chains relatively to the side chains.

1,676,967. TERMINAL FOR ELECTRIC AND WIRELESS CONNECTIONS. LOUIS JOHN SIMON, London, England. Filed Nov. 29, 1924, Serial No. 752,959, and in Great Britain July 11, 1924. 1 Claim. (Cl. 173—259.)

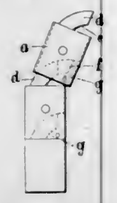
A spring clip terminal made from a single flat strip of resilient metal and formed into an attaching base, two uprights having a spring tension toward each other, and two depending ends substantially parallel and between the uprights, said ends having a contacting ten-

sion, said ends being further provided with plug-receiving portions and one being provided with a terminal lip extending below the terminal of the other end and



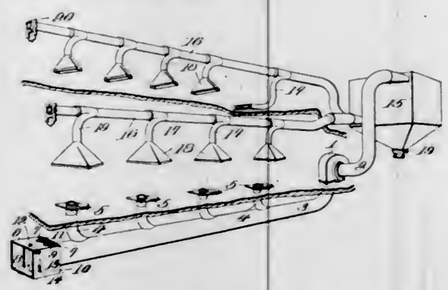
acting as a stop to prevent the accidental passing of a terminal plug beyond the point of contact between the ends.

1,676,968. FILING POST FOR LOOSE-LEAF LEDGERS AND LIKE BINDERS. HOWARD BRITTEN STONE, London, England. Filed June 9, 1924, Serial No. 718,908, and in Great Britain June 19, 1923. 9 Claims. (Cl. 129—13.)



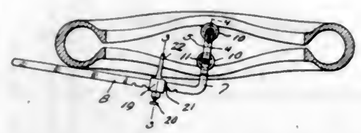
6. A filing post section comprising a body portion having at one end a curved wall recessed therein to form a mortise, a lug having a curved wall opposite to the said recessed curved wall, and an annular segmental tenon of less extent than a quarter of a circle carried by the other end of said body, said tenon having curved edges equal in length and curvature to the said curved walls, respectively.

1,676,969. ONE-FAN COMBINED DUST-COLLECTING AND AIR-SUPPLY SYSTEM FOR PNEUMATIC SEPARATORS AND CLEANERS. HENRY MOORE SUTTON, WALTER LIVINGSTON STEELE, and EDWIN GOODWIN STEELE, Dallas, Tex. Filed Dec. 3, 1923, Serial No. 678,346. Renewed May 18, 1927. 8 Claims. (Cl. 209—502.)



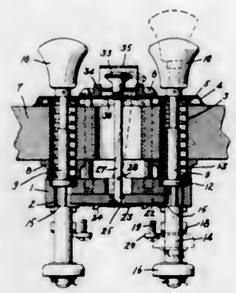
1. An air supply for a plurality of pneumatic separators and a dust collector, comprising a fan having a greater capacity than that required by the system, an air supply conduit connected with the outlet end of the fan having a plurality of connections with the separators, a dust collector conduit having a plurality of dust collectors, a dust separator connected with the dust collecting conduit, the suction side of the fan connected with said dust separator, and automatic means for controlling the amount of air pressure within the said air conduit, whereby a single fan operates a plurality of suction devices and supplies air to a plurality of separators.

1,676,970. TIRE SPREADER. ALBERT H. THOMAS, Louisville, Ky. Filed July 30, 1927. Serial No. 209,610. 4 Claims. (Cl. 152—27.)



3. A tire spreader of the class described including a shank, a pair of bolts extending from the shank laterally and in spaced parallelism to each other, a handle extending from the shank at an angle thereto, a pin extending laterally from the handle in the same direction with the shank for engaging one bead of the tire, adjustable means for mounting said pin on said handle, rollers journaled on said bolts.

1,676,971. PULL-BUTTON-CONTROLLING SWITCH. ARTHUR B. WEAVER, Philadelphia, Pa., assignor to General Electric Company, a Corporation of New York. Filed June 1, 1923. Serial No. 642,830. 2 Claims. (Cl. 200—42.)

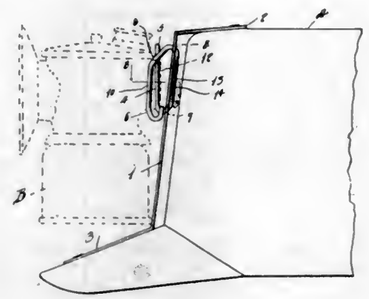


2. An electric switch comprising a plurality of movable circuit controlling members each biased to the open circuit position and having means by which they may be moved to closed circuit position, a locking element for said circuit controlling members mounted for movement transversely thereof, said locking element in one position preventing movement of one of said members to closed circuit position, in another position preventing movement of another of said members to closed circuit position and in an intermediate position preventing movement of both of said members to closed circuit position, a lever for operating said locking element having two extreme positions and an intermediate position corresponding to the positions of said locking element, and a restraining member for said lever adapted to be applied when the lever is in its intermediate position, said restraining member having a slotted portion for receiving the end of the lever to prevent movement thereof and a portion for covering the end of the lever.

1,676,972. SECURING DEVICE FOR MINERS' LAMPS. ABRAHAM L. WELCH, Rush Run, W. Va., assignor of one-half to A. B. McClelland, Rush Run, W. Va. Filed July 10, 1926. Serial No. 121,719. 1 Claim. (Cl. 240—60.)

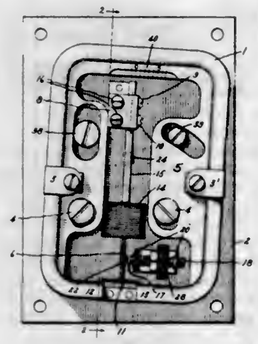
A securing device for miners' lamps having attaching clips thereon, comprising a hook member formed of a single length of wire bent intermediate of its ends to form an upstanding U-shaped member to engage the

clip on the miners' lamp, the wire at each side of the U-shaped member bent laterally and upwardly, the wire at the ends of said upwardly bent portions bent away from the upwardly bent portions and downwardly at



each side of the U-shaped member and adapted to engage the lamp at each side of the U-shaped member to prevent casual displacement of the lamp from said member.

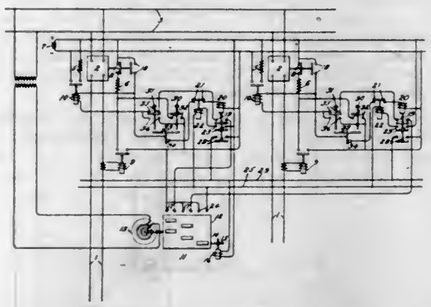
1,676,973. VIBRATORY CONVERTER. RALPH D. AMSDEN, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Aug. 24, 1922. Serial No. 583,981. 10 Claims. (Cl. 175—365.)



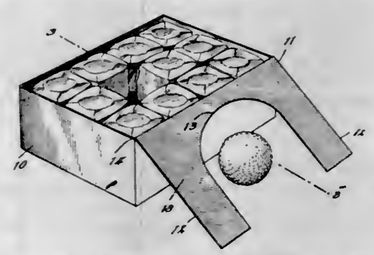
1. An electric converting device comprising a reed consisting in part at least of magnetic material, a magnet of unidirectional flux having poles arranged to hold said reed under magnetic tension and a winding surrounding said reed for inducing a cyclically varying magnetic flux therein, said winding being longitudinally adjustable with respect to said reed to time the phase relation of the vibrations of the contacts with respect to a cyclic current to be converted.

1,676,974. AUTOMATIC RECLOSING CIRCUIT-BREAKER SYSTEM. ARVID E. ANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 15, 1922. Serial No. 552,870. 28 Claims. (Cl. 175—294.)

3. In an automatic reclosing circuit breaker system, the combination with a plurality of circuits, a circuit breaker in each circuit, a closing coil for each circuit breaker, and means for opening each circuit breaker upon the occurrence of an abnormal condition on the respective circuit, of a timing mechanism operative in response to the opening of any one of said circuit breakers to control successively the energization of said closing coils, and means associated with each circuit breaker and controlled by said timing mechanism and the position of the respective circuit breaker to prevent the automatic reclosing of the respective circuit breaker after said timing mechanism has operated to effect the reclosing of the respective circuit breaker a predetermined number of times

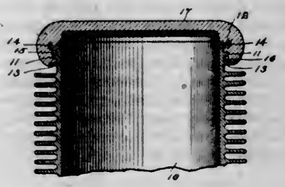


1,676,975. GOLF-BALL BOX. JOHN G. ANDERSON, Crestwood, and RICHARD H. WALDO, New York, N. Y., assignors to John Wanamaker New York, New York, N. Y., a Corporation of New York. Filed Nov. 5, 1926. Serial No. 146,494. 5 Claims. (Cl. 273—36.)



1. A golf ball box having a container and a notched flap hinged to an upper edge of the container, said flap being adapted when closed to cover the balls at the ends and at that edge of the container to which the flap is hinged, whereby the balls are restrained from falling out when the box is displayed upright, the notch in said flap being adapted to serve as a hole for golf putting practice when turned out, subsantially as described.

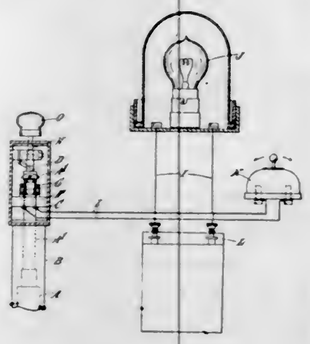
1,676,976. ENGINE CYLINDER. GLENN D. ANGLE and GEORGE E. A. HALLETT, Dayton, Ohio. Filed Dec. 30, 1920. Serial No. 434,136. 2 Claims. (Cl. 22—203.)



1. The method of fastening a cylinder head to a cylinder barrel, the same consisting in forming the barrel with a plurality of annular grooves the opposite walls of which are undercut and reversely inclined from the bottom to the top forming a groove in the end of said cylinder barrel, the opposite walls of which are undercut and reversely inclined from the bottom to the top

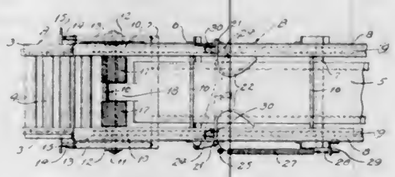
providing at intervals recesses intersecting said grooves, then casting the cylinder head around the adjacent end of the barrel so that portions of the material of the cylinder head will run along and fill said grooves.

1,676,977. LIGHTING SHIPS' LIFEBOATS AND THE LIKE. JOHN GLASS BLAIR, Poplar, England. Filed Sept. 20, 1923, Serial No. 663,875, and in Great Britain Sept. 23, 1922. 14 Claims. (Cl. 171—97.)



1. An electrical lighting apparatus for a ship's lifeboat comprising a float, a switch operated thereby when it enters the water, a lamp circuit controlled by said switch, a lamp in said circuit, means whereby the float can be rendered inoperative, and hand operated means for controlling the lamp circuit when the float is inoperative.

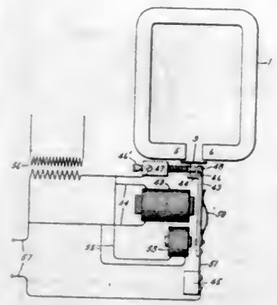
1,676,978. CONVEYER. WILLIAM J. BOHN, St. Louis, Mo., assignor to Alvey Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 3, 1925. Serial No. 47,680. 11 Claims. (Cl. 198—23.)



11. The combination with a power conveyer comprising a way and traveling devices for propelling articles along the same, of a pair of upright rock shafts disposed one on each side of said conveyer and having reversely curved arms adapted to extend into the path of the articles with their normally closest points not far from the line that joins said shafts, means for limiting the inward swinging movement of said arms, and means for normally yieldably holding said arms in the path of the articles, said arms comprising middle portions having a relatively small radius of curvature and free outer end portions having a relatively large radius of curvature.

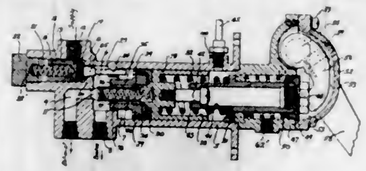
1,676,979. VIBRATORY CONVERTER. RALPH T. CHEESEMAN, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Aug. 24, 1922. Serial No. 583,986. 10 Claims. (Cl. 175—365.)

1. An electric device comprising a magnet of constant polarity having opposite poles substantially in line with each other and separated by an air gap, a T-shaped armature, means for movably supporting said armature in a position magnetically centering the head of the T



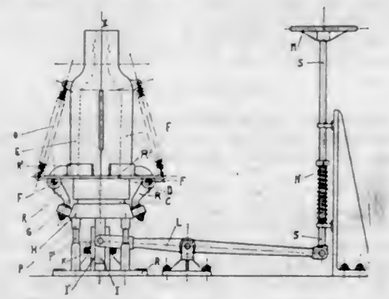
closely adjacent said poles outside of the confines of said gap, means for vibrating said armature and circuit-closing means operatively related with said armature.

1,676,980. BRAKE-CONTROL VALVE. NIELS A. CHRISTENSEN, Cleveland, Ohio. Filed Sept. 17, 1926. Serial No. 136,160. 3 Claims. (Cl. 303—54.)



1. In a brake control valve, the combination of a main casing, control valves therein, a pressure-responsive member associated with said valves, a reciprocating plunger, a compensating spring interposed between said member and plunger, a release spring normally urging the plunger to release position, a sectional casing secured to the main casing and enclosing said release spring, and means for operating said plunger including a rock-shaft journalled between the parts of said sectional casing and having an end projecting therefrom.

1,676,981. APPARATUS FOR THE MANUFACTURE OF BOTTLES AND OTHER GLASS HOLLOW WARE. GUGLIELMO DE RENZIS, Sarzana, Italy. Filed June 23, 1926, Serial No. 118,050, and in Italy Mar. 24, 1926. 4 Claims. (Cl. 49—42.)

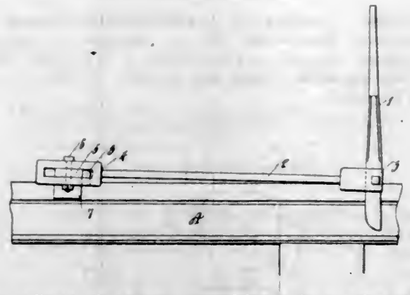


1. An apparatus for the manufacture of bottles and other hollow ware, comprising a fixed pin, an interchangeable glass supporting disc mounted on the pin, a

ring supporting the mold rotatably mounted on the pin, a conical ring coaxial with the latter, means for axially moving the ring, levers actuated by the conical surface of said ring to close said mold, and springs for opening the latter.

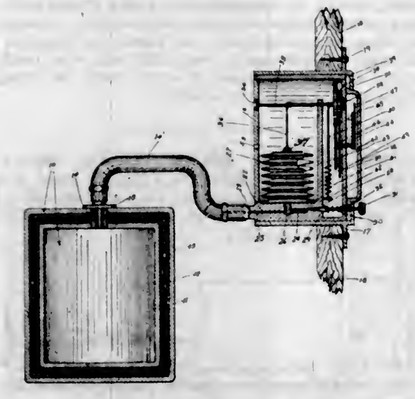
4. An apparatus for the manufacture of bottles and other hollow ware, comprising a fixed pin, a stationary support mounted on the latter, a sleeve rotatably mounted on the pin, bell-crank levers pivotally connected with the sleeve, mold sections carried on the upper end of the levers, a concentric conical ring surrounding the sleeve, means for moving the ring into and out of contact with the lower ends of the levers, a gear on the sleeve, a rack bar engaging the gear, and mechanism for reciprocating the rack to impart a circular oscillatory movement to the sleeve.

1,676,982. RAILROAD-TIE SPACER. GEORGE F. DICKS, Homedale, Idaho. Filed July 7, 1927. Serial No. 204,037. 1 Claim. (Cl. 254—44.)



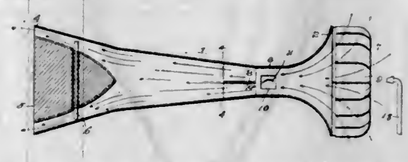
A railroad tie spacer, comprising a lever adpated to engage a tie, a rod pivotally engaging said lever, a slotted head on said rod, a U-shaped member pivotally secured in said head, and a stop on said U-shaped member to limit the pivotal movement thereof in one direction, said U-shaped member being adapted to seat on a railroad rail and grip it during one movement thereof.

1,676,983. BAROMETRIC DEVICE. IVAN I. EREMEEFF, Dayton, Ohio. Filed July 23, 1921. Serial No. 487,143. 4 Claims. (Cl. 73—4.)



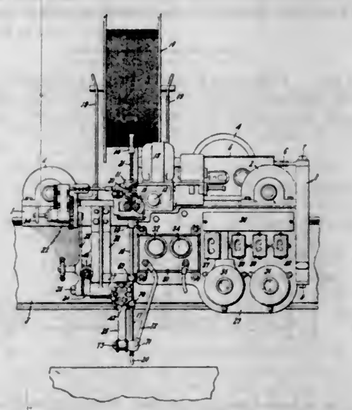
1. An instrument of the class described, comprising in combination a casing, an instrument case having a vent communicating with the atmosphere, pressure responsive bellows within said instrument case, said bellows being attached to said instrument case on one end, the other end whereof is movable in response to variations in the support afforded thereto by the internal pressure of said bellows against atmospheric pressure, means forming a communicative passage between the interior of said casing and the interior of said bellows, mechanism in the instrument case for indicating the extent of movement of said bellows and a normally closed valve adapted to be opened to afford communication between the atmosphere and said means and the interior of said bellows.

1,676,984. MEANS FOR VISUALIZING AIR-FLOW PHENOMENA. ELISHA N. FALES, Dayton, Ohio, and FRANK W. CALDWELL, Lookout Mountain, Tenn. Filed Dec. 3, 1920. Serial No. 428,165. 6 Claims. (Cl. 35—12.)



1. A wind tunnel embodying a tapered portion which contracts in a down stream direction, and another tapered portion which expands in a downstream direction, wind generating means in the tunnel on one side of the most constricted portion thereof, and air stream straightening means on each side of said constricted portion.

1,676,985. AUTOMATIC ARC-WELDING MACHINE. FRANK A. HAUGHTON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 14, 1925. Serial No. 56,108. 10 Claims. (Cl. 219—8.)

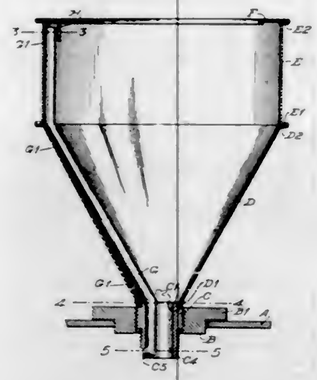


1. In an automatic arc welding machine wherein a welding head and the work are arranged to move relatively, means for oscillating an electrode at the welding arc comprising an adjustable throw crank, a rocker shaft, a support for said shaft, and a plurality of levers mounted on said shaft, and means for changing the position of two of said levers relatively to each other to adjust the alignment of said oscillating electrode relatively to the work.

1,676,986. FUNNEL. GLEN G. HILFORD, Tulsa, Okla. Filed June 6, 1927. Serial No. 196,866. 9 Claims. (Cl. 226—33.)

6. In a funnel, the combination of a tubular neck having an upper exteriorly threaded part formed to fit the interior of a tank connecting member and having a lower

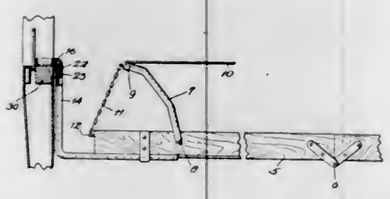
exteriorly threaded part formed to fit the interior threading of a smaller tank connecting member, said neck having an upward extension of smaller external diameter than the exterior diameter of said threaded part whereby a shoulder is formed and said neck having at its lower end a buffer extension, a tapering body having its lower end surrounding said extension and seated on said shoulder and secured to said neck, and a vent



tube extending downward through the body and said neck and opening laterally through the buffer extension.

S. In a funnel, the combination of an exteriorly threaded neck, a body, a flange ring on the upper part of the body, and a vent tube opening laterally through said neck and extending upward through said neck and said body and nearly to and opening under said flange ring.

1,676,987. PORTABLE BED FOR AUTOMOBILES OF THE SEDAN TYPE. JOHN M. LINE, Springfield, Mo. Filed Apr. 2, 1926. Serial No. 99,305. 3 Claims. (Cl. 5—118.)

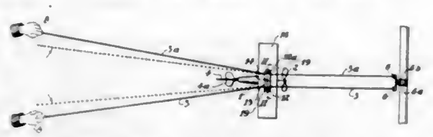


1. In a bed structure, a bed frame including foldable cross members, sill engaging hangers provided with separable sections, one section being adjustable on the other section, one section being of channel form defining flanges slidably embracing and guided by said cross members at one end, and clips carried by the cross members confining the hangers in position thereon.

1,676,988. FLUX FOR WELDING CAST IRON. COLIN C. MARYAN, Lawrence Park, Pa., assignor to General Electric Company, a Corporation of New York. Filed Dec. 8, 1925. Serial No. 74,170. 1 Claim. (Cl. 148—26.)

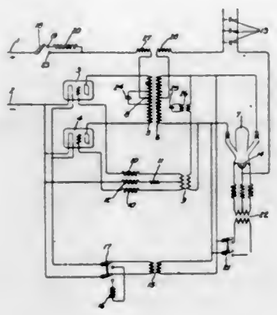
A flux for welding cast iron comprising substantially ferric carbonate 4 parts, ammonium chloride 12 parts, sodium borate 16 parts, sodium bicarbonate 20 parts and sodium chloride 12 parts.

1,676,989. AERONAUTIC TOY MOUNTING. EMMETT G. MCMENAMIN, Monterey, Calif. Filed Dec. 15, 1926. Serial No. 155,005. 2 Claims. (Cl. 46—50.)



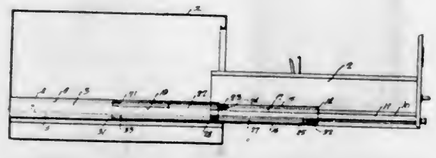
1. A device of the kind described comprising two supporting cords disposed in the same horizontal plane, the far ends of the cords attachable to supporting objects, the near ends of the cords being free, a horizontal bridge element traversable on said cords, said element having guide openings through which the cords extend and guide rollers in the openings engaging the cords, and a body suspended from the said element and swively connected thereto.

1,676,990. SYSTEM OF DISTRIBUTION. ALBERT H. MITTAG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 13, 1923. Serial No. 651,399. 9 Claims. (Cl. 175—363.)



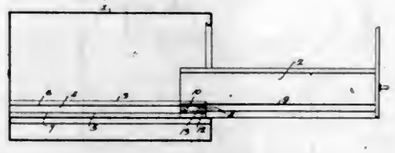
1. The combination in a system of electrical distribution of a source of direct current, a primary winding connected to said source through an electric valve, a secondary winding inductively associated with said primary winding, means for controlling the action of said valve to supply to said primary winding substantially rectangular wave form current impulses, and means for supplying to said valve control means from said secondary winding variable voltages the phase of which leads the voltages induced in said secondary winding.

1,676,991. DRAWER MOUNT. CONRAD BERGMANN, Philadelphia, Pa., assignor to Columbia Steel Equipment Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 28, 1925. Serial No. 72,015. 1 Claim. (Cl. 45—77.)



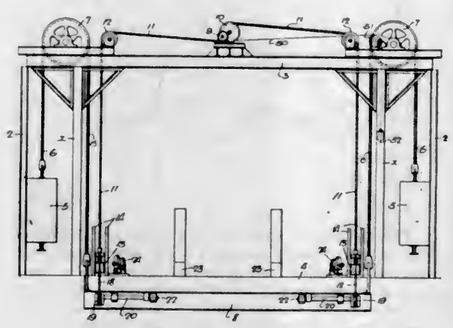
A drawer mount comprising a fixed track, a movable track, and an intermediate member cooperating with both of said tracks, said intermediate member having a flange with a pin fixed therein, and a roller journaled on said pin, the roller being adapted to engage both of the said tracks, said intermediate member also including two upright channels each containing a roller adapted respectively to engage under the said fixed track and under the said movable track, and an inverted channel, an integral part of said intermediate member projecting into and extending longitudinally of said inverted channel, and a roller comprising parts of different diameters, the part of smaller diameter being supported upon said integral inturned element whereby the latter constitutes a track for the roller, and the part of greater diameter being adapted to engage the top of said movable track.

1,676,992. DRAWER MOUNT. GEORGE BERGMANN, Philadelphia, Pa., assignor to Columbia Steel Equipment Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 20, 1925. Serial No. 16,999. 2 Claims. (Cl. 45—77.)



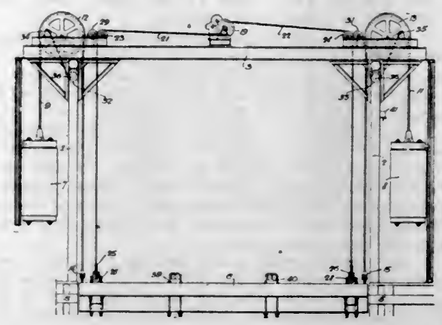
1. A drawer mount including in combination, a fixed track having oppositely extending spaced horizontal flanges and a vertical web connecting the said horizontal flanges, a roller journalled in the forward end of said vertical web, said upper horizontal flange being interrupted to provide an opening permitting mounting said roller with its upper portion projecting above the upper surface of said upper horizontal flange a movable track consisting of a bar of angular cross section arranged with one side disposed horizontally so as to overlie the upper horizontal flange of the fixed track to rest upon said roller, and a second roller journalled in the rear end of the movable track and adapted to operate between the horizontal flanges of the fixed track.

1,676,993. FERRY BRIDGE. PEIRCE CROSBY KELLY, Philadelphia, Pa., and HERBERT ALTON LANDIS, Haddon Heights, N. J., assignors to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 22, 1922. Serial No. 602,577. 24 Claims. (Cl. 14—71.)



1. The combination of a ferry-bridge structure to which a boat is to be moored; at least one strong back on said structure; and means adapted to exert an upward thrust on said boat tending to hold the same in engagement with said strong back.

1,676,994. CONTROL MECHANISM. ROBERT CRAIG LAMOND, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 10, 1924. Serial No. 712,494. 13 Claims. (Cl. 14—42.)



1. A power device, bridge apparatus to be actuated thereby, means including a cable for operatively associating said device and said bridge apparatus, means for centralizing the slack in said cable appearing when the strain in the latter falls below a predetemined value, control means, and means whereby said slack may operate said control means.

1,676,995. SERUM AND METHOD OF PRODUCING THE SAME. CONSTANTINE LEVENTIS, Phoenix, Ariz. Filed Jan. 27, 1927. Serial No. 164,124. 8 Claims. (Cl. 167—7.)

1. In the process of preparing antitoxins and antibacterial serums, treating an animal with an antigen, injecting serum from an animal to be protected and of a different species into said treated animal and withdrawing the serum from the treated animal.

3. In the process of preparing antitoxins and antibacterial serums for human use, treating an animal with an antigen, injecting human serum into the said treated animal and withdrawing serum from the thus treated animal.

7. In the process of preparing antitoxins and antibacterial serums, treating an animal not normally responsive to a specific disease with the specific antigen, injecting into the said treated animal serum from an animal normally responsive to the specific disease thereby making the said treated animal responsive to the specific disease and withdrawing serum from the thus treated animal.

8. A specific serum derived from the blood of an animal which is not normally responsive to the specific disease, but which has been made responsive by injection with the specific antigen and serum of a responsive animal.

1,676,996. GLAND SERUM. CONSTANTINE LEVENTIS, Phoenix, Ariz. Filed June 20, 1927. Serial No. 200,294. 7 Claims. (Cl. 167—7.)

3. The process of preparing a serum which comprises castrating an animal while sexually immature, implanting a corresponding gland from an animal of a higher evolutionary order in the tissues of the castrated animal.

injecting the treated animal with human serum, withdrawing serum from the treated animal and preparing the withdrawn serum for medical use.

7. A serum derived from an animal deficient in a substance produced by a genital gland, such serum resulting from the implantation in the animal of a genital gland from an animal of a different species together with injection of human serum.

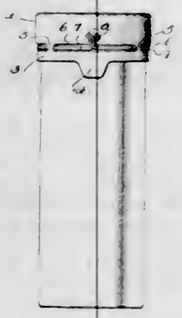
1,676,997. ANTITUBERCULAR SERUM AND METHOD OF PRODUCING THE SAME. CONSTANTINE LEVENTIS, Phoenix, Ariz. Filed Apr. 28, 1928. Serial No. 273,772. 5 Claims. (Cl. 167—7.)

1. In the process of preparing tubercular antitoxins and serums, treating an animal with tubercular antigen, injecting serum from an animal to be protected and of a different species into said treated animal and withdrawing the serum from the treated animal.

4. In the process of preparing tuberculosis antitoxins and serums, treating an animal not normally responsive to tuberculosis with tuberculosis antigen, injecting into the said treated animal serum from an animal normally responsive to tuberculosis thereby making the said treated animal responsive to tuberculosis, and withdrawing serum from the thus treated animal.

5. An anti-tubercular serum derived from the blood of an animal which is not normally responsive to tuberculosis, but which has been made responsive by injection with tuberculosis antigen and serum of a responsive animal.

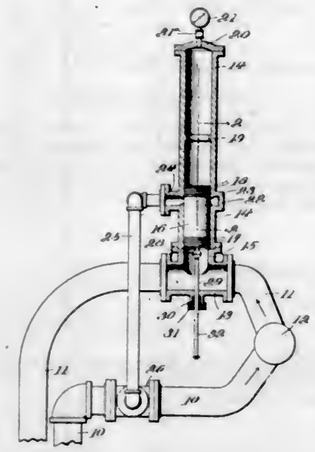
1,676,998. BOTTLE CAP AND FASTENER. BRUNO R. MEDIATI, Salt Lake City, Utah. Filed May 17, 1926. Serial No. 109,688. 2 Claims. (Cl. 215—41.)



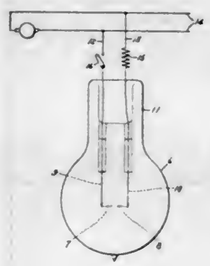
1. A container cap comprising a body of rubber having a concaved top portion and a continuous flange portion, said flange portion having at its outer surface spaced rings, there being a groove between the ends of the rings, a hoop member consisting of a single piece of wire passing through the rings and lying in the groove, said hoop member having interengageable end extremities.

1,676,999. PRESSURE-RELIEF APPARATUS. HENRY G. MOBLEY, League City, Tex. Filed May 24, 1926. Serial No. 111,441. 11 Claims. (Cl. 103—42.)

1. In a pressure control device for a pipe line, a T in said line, a cylinder of greater internal diameter than the branch of said T mounted thereon and communicating thereby with said line, an internal flange in said cylinder, a piston valve freely movable in said cylinder between its lower end and said flange, a hollow belt on said cylinder intermediate its chamber in communication with the interior of said cylinder, said piston valve normally closing such communication but adapted to move under increase of pressure in said line to open said communication, and an air chamber communicating with the interior of said cylinder whereby the movement of said piston valve is regulated.

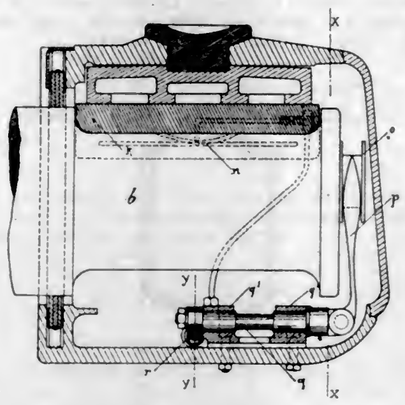


1,677,000. ELECTRIC DISCHARGE DEVICE. DANIEL MCFARLAN MOORE, East Orange, N. J., assignor to General Electric Company, a Corporation of New York. Filed Mar. 5, 1921. Serial No. 449,700. 3 Claims. (Cl. 176—123.)



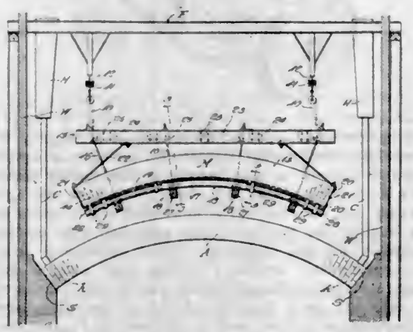
1. The method of starting an electric arc discharge in a gas between closely adjacent electrodes constituted of conducting material one of which comprises a body of closely adjacent conductors of small section to facilitate the production of corona which consists in initially impressing upon said electrodes a potential sufficient to produce a glow discharge therebetween, maintaining such glow discharge to bring said small conductors to incandescence and increasing the current flowing between the electrodes.

1,677,001. LUBRICATING DEVICE FOR AXLE JOURNALS. JULES MOREAU, La Garenne-Colombes, France. Filed Dec. 23, 1926, Serial No. 156,660, and in France Jan. 20, 1926. 2 Claims. (Cl. 308—84.)



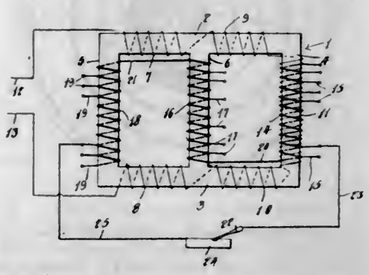
1. A lubricating device for axle journals, comprising a casing which surrounds the journal and is adapted to contain oil, a pump which is disposed in the said casing and serves to withdraw the oil and to deliver it upon the said journal, an eccentric disc secured to the outer face of said journal, a fork coacting with said disc and receiving an oscillating motion due to the rotation of the axle, and means imparting the oscillating motion of the said fork to the piston of the pump.

1,677,002. REPAIRING MEANS FOR FURNACE ARCHES. OTTO ELIS OLSON and LEOPOLD COOPER, Douglas, Ariz. Filed Sept. 8, 1927. Serial No. 218,278. 3 Claims. (Cl. 263—46.)



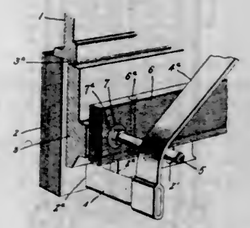
2. An arch member to be substituted for a portion of a furnace arch, comprising a fire resisting body, a supporting structure therefor embodying longitudinally arched bars underlying said body, slide bars at ends of said arched bars and extensible therefrom to assist in adding to said body when positioning it for use, means slidably connecting the two sets of bars and supporting means for said body and said arched bars free of attachment to said slide bars.

1,677,003. TRANSFORMER FOR ELECTRIC-ARC CUTTING, REPAIRING, AND WELDING APPARATUS. FREDERICK C. OWEN, Fayetteville, N. C. Filed Aug. 18, 1927. Serial No. 213,880. 9 Claims. (Cl. 171—119.)



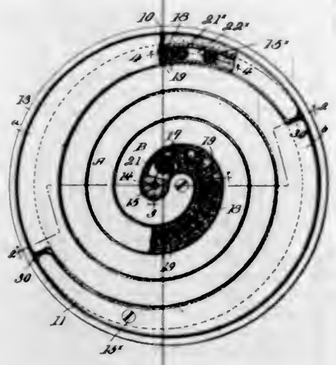
1. A transformer comprising a core providing a plurality of magnetic paths, a primary winding distributed about the greater portion of one of said paths and about a portion of the other, and a secondary winding embodying a coil in close coupled relation with the primary winding and coils in loose coupled relation with the primary winding.

1,677,004. MAGNETIC SHIELD FOR DYNAMO-ELECTRIC MACHINES. ROBERT POHL, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Feb. 17, 1927, Serial No. 169,048, and in Germany Mar. 25, 1926. 7 Claims. (Cl. 171—252.)



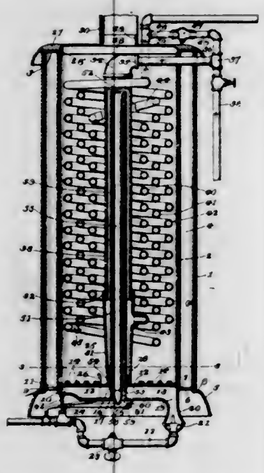
1. In a dynamo-electric machine, the combination of laminations forming a path for magnetic flux, a clamping member for said laminations, electrical conductors of the machine positioned in slots in said laminations and extending transversely therebeyond, and laminated magnetic material adjacent said conductors having the edges of the laminations thereof facing away from said clamping member adjacent thereto for preventing magnetic flux entering the side thereof, whereby eddy current losses are reduced.

1,677,005. NONWARPING HOT PLATE. LUDWIG REICHOLD, Winsted, Conn., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn., a Corporation of Connecticut. Filed Sept. 15, 1927. Serial No. 219,670. 4 Claims. (Cl. 219—37.)



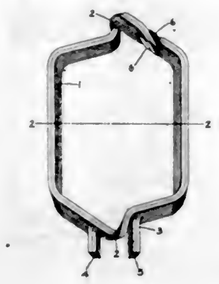
1. In a hot plate, a metal heat transmitting and vessel supporting member comprising a single spiral having a passage formed therein to receive the heating wire, and means to support said spiral at one end only, so that the spiral may expand in the direction of its length under the influence of heating.

1,677,006. HEATER. GEORGE E. STARKWEATHER, Los Angeles, Calif., assignor of one-fourth to Thomas A. Holland and one-fourth to Bryan Chambers, Los Angeles, Calif. Filed May 16, 1927. Serial No. 191,772. 2 Claims. (Cl. 122—245.)



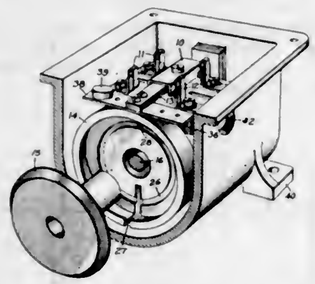
1. A water heater comprising a heating chamber, a set of communicating, concentrically disposed coils arranged within said chamber, a cold water receiving chamber arranged within the heating chamber, surrounded by said coils and communicating in proximity to its lower end with the inner coil of the set, a valve controlled cold water supply line extending into the heating chamber and communicating with the receiving chamber at the top thereof, a hot water discharge line communicating with the outer coil of said set, a by-pass between said lines and provided with a check valve, a heating element arranged at the bottom of the heating chamber, and control means therefor including a thermostatic element arranged within said receiving chamber.

1,677,007. COIL WINDING. IVAN H. SUMMERS, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Dec. 29, 1925. Serial No. 78,226. 5 Claims. (Cl. 171—206.)



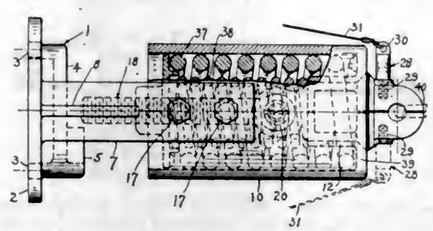
3. A multi-turn coil for a dynamo-electric machine having reversing end turns and comprising a conductor formed of a plurality of insulated strands, the conductor of the coil having a twist of substantially 180° in the upper turn at one end of the coil.

1,677,008. ROTARY SWITCH MECHANISM. GEORGE R. TOWNSEND, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 12, 1925. Serial No. 75,147. 3 Claims. (Cl. 200—52.)



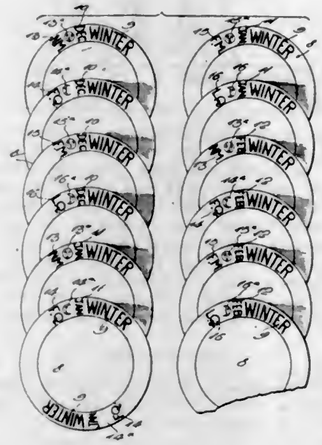
3. A direction switch comprising a casing, a shaft extending through one wall of the casing and rotatably mounted therein, a disc having a hub fixedly mounted upon said shaft within the casing, a second disc having a radial slot therein and a hub rotatably mounted upon the hub of the first disc and provided with a flanged extension on the periphery thereof forming a housing surrounding the periphery of the first disc, a switch mechanism mounted within the casing and connected to be actuated upon rotation of the second disc between predetermined limits, and a viscous oil in the bottom of the casing and immersing the bottom portion of said discs to be drawn through said slot and carried between the hubs and the adjacent faces of the discs and confined by said housing to form a yielding driving connection therebetween to operate said switch mechanism upon initial rotation of the shaft in either direction and to supply lubrication to the said shaft bearing and to the hub bearing between said discs.

1,677,009. ADJUSTABLE RELEASING DEVICE. OLIVER ERNEST WILTSIE, Troy, N. Y. Filed July 11, 1927. Serial No. 204,940. 4 Claims. (Cl. 280—33.16.)



1. An automatic adjustable releasing device comprising a bracket, attachable to a moving mechanism, rigidly holding a cylinder, an eyebolt carrying a pivot, holding two shouldered jaws thereon, a relatively heavy outer and light inner spring engaging one end of the said cylinder and a flanged circularly ribbed nut, adjustably held upon the said eyebolt.

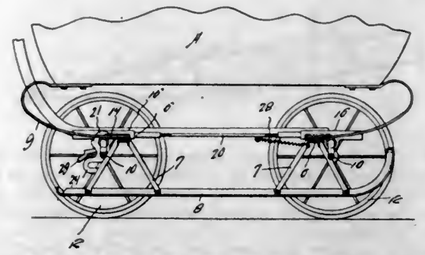
1,677,010. CARD GAME. LILLIE ZIMMERMANN, Fond Du Lac, Wis. Filed Mar. 1, 1928. Serial No. 258,319. 14 Claims. (Cl. 273—152.)



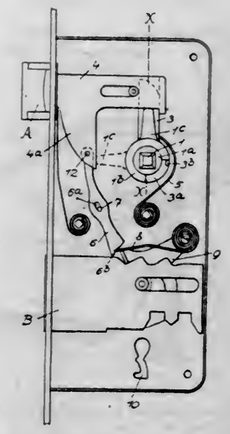
1. In a card game played by trick-taking and embodying suits of cards and a high trump card, a penalizing card operable if its player be out of suit to negative the trick-taking effect of any card played concurrently, including said high trump card.

1,677,011. BABY CARRIAGE. EDWIN J. ADAMS, Little Falls, N. Y. Filed Apr. 14, 1927. Serial No. 183,758. 4 Claims. (Cl. 280—11.)

1. In a carriage of the character described, a pair of transverse frame bars for supporting a carriage body, a pair of cross axles journaled to the frame bars to permit the rotation thereof, cranks on the ends of the axles, supporting wheels rotatable on the cranks, gears fixed on the axles, rack bars meshing with the gears, means interconnecting the rack bars to cause the simultaneous movement thereof, a lever on one of the axles for turning the same to cause the simultaneous turning of all of the axles through the gears and rack bars for raising and lowering the wheels in respect to the carriage body, means for normally maintaining the wheels in a lowered position, a pair of sleigh runners suspended from the cross bars for supporting the carriage when the wheels are raised, means engageable with the lever for maintaining it in wheel raised position, and additional manual controlled means for releasing said third mentioned means to permit the reverse turning of the axles to swing the wheels downwardly beyond the runners for supporting the carriage.

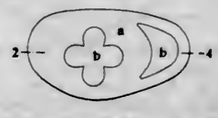


1,677,012. COMBINED LOCK AND LATCH. JULIUS ARIGI, Marianske Lazne, Czechoslovakia, assignor to the Firm: Aero, Továrna Ctadel, Praha-Vysočany, Czechoslovakia. Filed Nov. 18, 1926, Serial No. 149,217, and in Czechoslovakia Dec. 19, 1925. 6 Claims. (Cl. 70—29.)



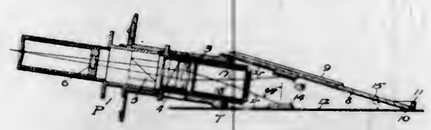
1. In a combined lock and latch, the combination of a reciprocable latch-bolt, a dead bolt, means for retracting the latch-bolt, a lever connected with the latch-bolt and preventing movement of the dead bolt when the latch-bolt is in projected position, and a manually adjustable stop adapted to prevent retraction of the latch-bolt.

1,677,013. COMPOUND RUBBER TREAD. LOUIS CHARLES BATEMAN, West Ealing, London, England. Filed Aug. 1, 1927, Serial No. 209,798, and in Great Britain June 26, 1926. 2 Claims. (Cl. 36—32.)



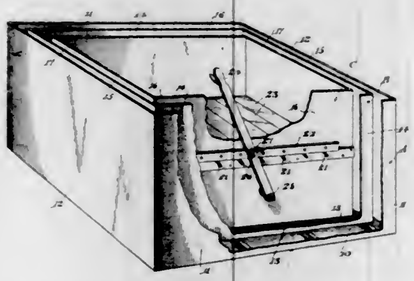
1. A shoe sole comprising a felt base impregnated with latex having inserted therein to lay substantially flush therewith an inlay of crepe rubber.

1,677,014. REFLECTOMETER. FRANK A. BENFORD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 30, 1925. Serial No. 27,015. 8 Claims. (Cl. 88—23.)



1. A photometric device comprising a photometer, a diffusing surface adapted to be illuminated to serve as a standard of comparison for measuring the index of reflection of a desired surface, said device so constructed that the diffusing surface and any surface, the index of reflection of which is desired, may be brought together, a pair of auxiliary diffusing surfaces located within the field of said photometer, one of said auxiliary surfaces facing toward the standard surface and adapted to be directly illuminated thereby and the other auxiliary surface facing toward the region where the surface to be tested and the device are brought together, said other auxiliary surface adapted to be illuminated by the surface to be tested when said surface and the device are brought together and when said surface to be tested is illuminated by the diffusing standard surface, whereby the index of reflection of the surface to be tested may be determined by comparing the illumination of the auxiliary surfaces.

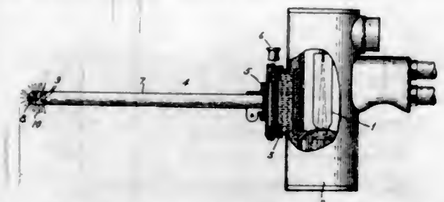
1,677,015. BEAN SEPARATOR. CURRAN S. BENTON, Port Huron, Mich. Filed Apr. 18, 1927. Serial No. 184,665. 4 Claims. (Cl. 209—173.)



1. A separator comprising an open top tank adapted to contain a gravitation solution for grading a commodity, a removable, open top intermediate tank positioned within and arranged in spaced relation with respect to the front, rear, sides and bottom of said other tank, said intermediate tank having a perforated bottom and adapted to receive a grade of the commodity being separated, the inner tank seated on said perforated bottom and arranged in spaced relation with respect to the front, rear and sides of the intermediate tank, said inner tank having an open top and bottom, a normally inactive combined separating and carrier means within said inner tank above the lower end thereof, and operating means for shifting said separating and carrier means to active position to provide for the latter to perform its separating and carrying function.

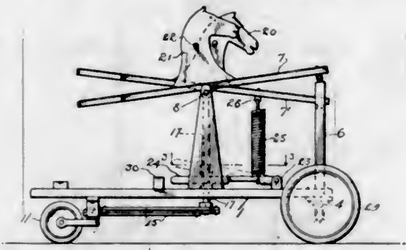
1,677,016. QUARTZ APPLICATOR. EDWARD R. BERRY, Malden, Mass., assignor to General Electric Company, a Corporation of New York. Filed July 1, 1926. Serial No. 119,975. 3 Claims. (Cl. 174—177.)

1. A therapeutic device comprising a source of radiant energy, an applicator for ultra violet rays comprising a member of material transparent thereto and being substantially free from cavities and a tip of material which is capable of transmitting the desired radiations and having interior cavities causing said radiations to spread



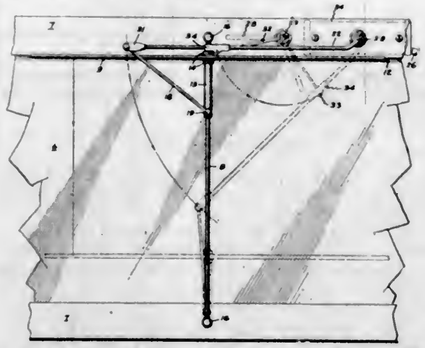
externally free from cavities and a tip of material which is capable of transmitting the desired radiations and having interior cavities causing said radiations to spread externally of said applicator.

1,677,017. VEHICLE FOR CHILDREN. CHARLES H. BOARDMAN, Columbus, Ohio. Filed May 31, 1927. Serial No. 195,303. 2 Claims. (Cl. 208—33.)



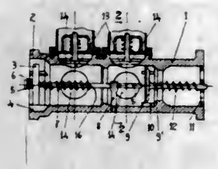
1. A vehicle of the class described, comprising a pair of platforms, a driving axle connected to the forward ends of the platforms, standards upon the platforms, seats pivotally connected with the standards, driving connections between the seats and axle for imparting rotary movement thereto upon rocking of the seats in alternate directions, a guide wheel carried by the ends of the platforms, a steering post pivotally connected with one of the seats, a head for rotating the post, connections between the post and steering wheel for controlling the latter, and a spring connecting one of the seats and its platform.

1,677,018. WINDSHIELD WIPER. CARL A. CARLSON, San Francisco, Calif. Filed Jan. 31, 1927. Serial No. 164,724. 5 Claims. (Cl. 15—251.)



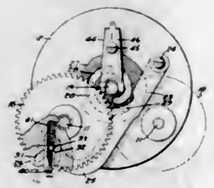
1. A windshield wiper comprising a squeegee, means for constraining said squeegee to translatory motion, a crank constrained to rotary oscillation, and a link pivoted to said crank and said squeegee.

1,677,019. ARRANGEMENT FOR ELIMINATING THE DANGERS DUE TO BACK FIRES IN CARBURETORS. PIETRO CASATI and ALESSÁNDRO ANTONIOLA, Turin, Italy. Filed Dec. 29, 1926, Serial No. 157,783, and in Italy Jan. 14, 1926. 3 Claims. (Cl. 123—142.)



1. An apparatus of the character described, comprising a tubular body adapted to be inserted between an engine and a carburetor, a safety valve in one end of said body normally open towards said engine, a plunger in the other end of said body, a rod on which said plunger is movably mounted, and springs on said rod for holding the plunger in balanced position and operatively connected with the rod, whereby the latter is actuated to close the valve by the movement of the plunger.

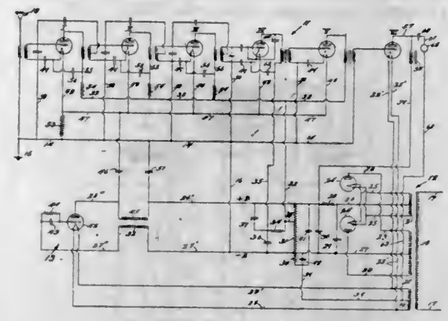
1,677,020. VARIABLE CONDENSER. ERNEST G. DANIELSON, San Francisco, Calif. Filed May 24, 1926. Serial No. 111,193. 10 Claims. (Cl. 175—41.5.)



1. A variable condenser comprising relatively movable electrodes, at least one of said electrodes being rotatable about a given axis, a rotatable control shaft, a pivoted actuating lever, means connecting said shaft and lever whereby said lever is rocked upon rotation of the shaft, a member rotatable with said one electrode, means connecting said member and lever whereby the rocking movement of the lever imparts rotary movement to said one electrode, said means comprising a pin, means for adjusting the position of said pin with respect to said lever and member, and means for constraining the movement of said pin to definite paths with respect to said lever and member, said paths being substantially parallel when the electrodes occupy a position for maximum capacitance but being intersecting when the electrodes occupy other relative positions.

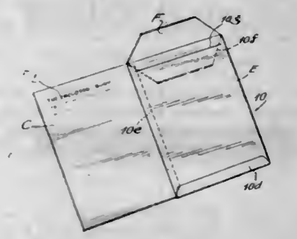
1,677,021. HIGH-FREQUENCY FILAMENT-HEATING MEANS. WARREN E. DANLEY, Highland Park, Ill., assignor to Fansteel Products Company, Inc., North Chicago, Ill., a Corporation of New York. Filed Oct. 6, 1927. Serial No. 224,328. 21 Claims. (Cl. 250—27.)

1. In combination, a radio receiver including filament and plate circuits, an oscillation generator for generating currents of ultra audio frequency differing from the received signal frequency, connections for supplying



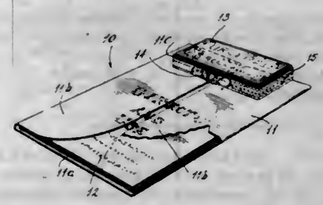
power to said plate circuit and to said generator, and connections for supplying oscillating filament heating current from said generator to said filament circuit.

1,677,022. ADVERTISEMENT CARRIER. ABRAHAM DEUTSCHMEISTER, New York, N. Y. Filed Mar. 21, 1927. Serial No. 176,900. 2 Claims. (Cl. 229—68.)



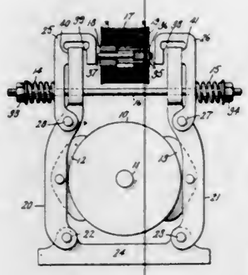
1. A complete article of manufacture comprising a single sheet of material creased to have central and end portions, one of said end portions folded over said central portion and secured thereto to form an envelope, said envelope having an opening, a closure flap for said opening adapted to retain the contents of the envelope, the other end portion being foldable over said envelope and adapted to bear a legend on the inner face thereof, and means for securing said legend bearing section to said envelope.

1,677,023. COMBINATION SAMPLE AND PAMPHLET CARRIER. HERMAN DEUTSCHMEISTER, New York, N. Y. Filed Dec. 27, 1926. Serial No. 157,164. 8 Claims. (Cl. 229—87.5.)



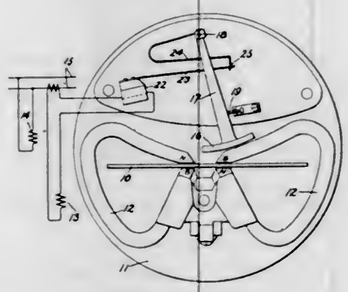
8. In a device of the character described a holder for retaining printed matter and a band extending from one end of the holder adapted to secure a receptacle to overlie the wrapper at said end.

1,677,024. BRAKE. JOHN EATON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 1, 1927. Serial No. 180,287. 12 Claims. (Cl. 188—171.)



8. An electromagnetic brake comprising relatively movable friction members, a spring operably connected with one of the members for biasing the same into braking engagement with the other member, an electromagnet for opposing the spring, and connections between the spring and the electromagnet including a member controlled by the electromagnet and movable between two positions and arranged to reduce the force of the spring for biasing the friction members into engagement when said member is intermediate said positions.

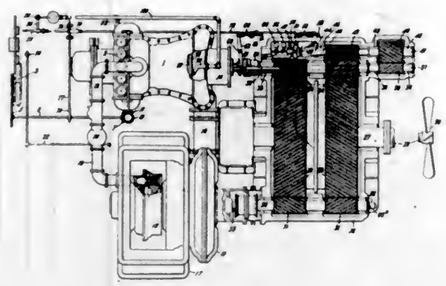
1,677,025. COMPENSATED METER. ARTHUR G. GRIER, Peterboro, Canada, assignor to General Electric Company, a Corporation of New York. Filed Dec. 8, 1925. Serial No. 74,178. 10 Claims. (Cl. 171—264.)



1. An induction type watthour meter having a tendency to run too slowly when subjected to an overload current, and means responsive to such overload current for decreasing the damping of said meter to compensate for such tendency.

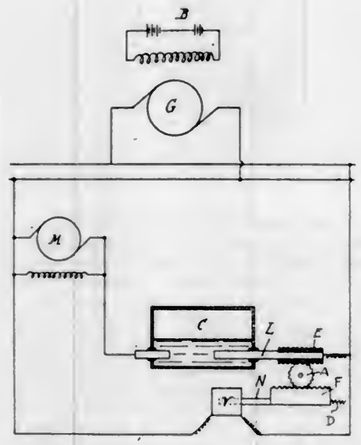
1,677,026. GEARED TURBINE INSTALLATION. BRUCE O. BUCKLAND and GLENN B. WARREN, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Nov. 6, 1925. Serial No. 67,424. 8 Claims. (Cl. 74—59.)

1. In a turbine installation, a high pressure turbine, a low pressure turbine, a driven shaft, and gears through which said turbines drive said shaft, said gears comprising a driven gear wheel, a pinion meshing therewith driven by the low pressure turbine, gear means comprising a pinion meshing directly with said driven gear wheel and a pinion connected thereto through a



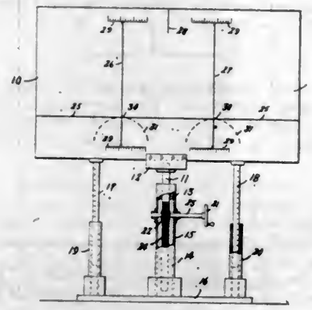
reduction gearing, and means whereby said high pressure turbine may be connected to drive through either of said pinions.

1,677,027. METHOD AND MEANS FOR CONNECTING WINDMILLS WITH ELECTRIC GENERATORS. LOUIS CONSTANTIN, Paris, France, assignor of one-half to Paul Fortier-Beaulieu, Roanne, France. Filed Feb. 5, 1925, Serial No. 7,128, and in France Feb. 12, 1924. 2 Claims. (Cl. 171—312.)



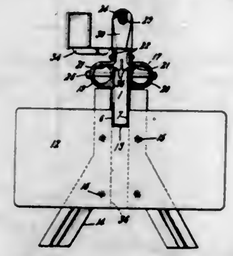
1. A voltage regulating system for dynamo-electric machines comprising in combination with a generator subjected to rapid variations in speed, a translating device, an electric boiler, a movable and a fixed electrode in said boiler, means for serially connecting said translating device, said generator and the electrodes of said boiler, means for varying the resistance of said boiler by changing the position of said movable electrode and automatic means for varying said last mentioned means in accordance with the voltage supplied by said generator for the purpose disclosed.

1,677,028. HEADLAMP-ADJUSTING CHART. THEODORE W. FRECH, Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Filed Nov. 5, 1925. Serial No. 67,172. 3 Claims. (Cl. 33—180.)



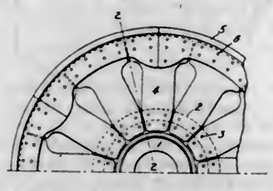
1. A headlight adjusting apparatus comprising a screen having thereon a horizontal line, supporting means for said screen, means for vertically reciprocating said screen, and a scale for indicating its height.

1,677,029. THERMOELECTRIC GENERATOR. TRUMAN S. FULLER, NATHAN H. ADAMS, and FRANK G. NOLTE, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Nov. 27, 1925. Serial No. 71,827. 8 Claims. (Cl. 136—4.)



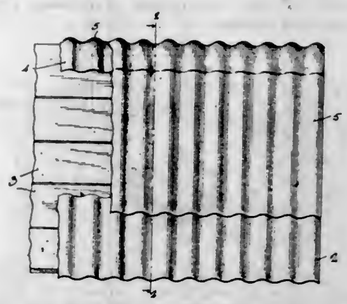
3. In combination, a thermopile, the portion of said thermopile which includes the junctions to be heated being reduced in cross section, and means for heating said reduced portion, said means including a pair of tubular members provided with burner openings and mounted on said thermopile and on opposite sides of said reduced portion.

1,677,030. MAGNET WHEEL. JOHANNES GESCHKE, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Mar. 31, 1926, Serial No. 98,787, and in Germany Apr. 7, 1925. 5 Claims. (Cl. 171—252.)



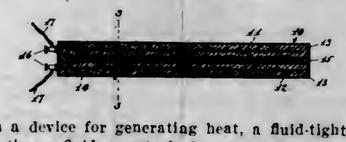
1. A magnet wheel comprising a series of spokes having their ends widened to form a substantially continuous peripheral web, and a plurality of rim segments secured against the sides of the spokes, the segments being arranged with their ends substantially opposite the center lines of certain of the spokes.

1,677,031. SHEET-METAL ROOFING. LOUIS KUEHN, Milwaukee, Wis., assignor to Milwaukee Corrugating Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 16, 1925. Serial No. 15,753. 3 Claims. (Cl. 108—24.)



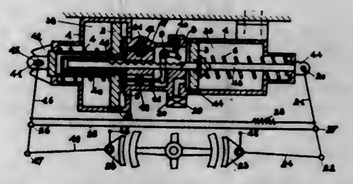
1. A sheet-meal roof section provided with corrugations extending from end to end thereof, one of the ends of said section being raised from the plane thereof and shaped to fit and nest with the raised end of a similarly-formed and oppositely arranged section to form therewith a ridge roll for a roof the other end of said section being adapted to overlap and nest with the adjacent end of an ordinary corrugated sheet metal roof section.

1,677,032. ELECTRICAL HEATING AND COOKING APPARATUS. JOAN WILLEM JULES KAFFER, Meester-Cornelis, Java, Dutch East Indies. Filed Nov. 9, 1926. Serial No. 147,352. 3 Claims. (Cl. 204—5.)



1. In a device for generating heat, a fluid-tight casing constituting a fluid receptacle for water, two spaced electrodes disposed in said casing and having means to connect said electrodes with the wires of an electric circuit, and a catalytic element disposed in said casing between said electrodes, said electrodes and said element being out of electrical contact with said casing and with one another.

1,677,033. AIR-PRESSURE BRAKE. EMIL KREHANN, Vienna, Austria, assignor of one-half to the Firm Gebrüder Hardy, Maschinenfabrik und Giesserei Aktien Gesellschaft, Vienna, Austria. Filed Nov. 28, 1927, Serial No. 236,327, and in Austria Dec. 15, 1926. 8 Claims. (Cl. 303—6.)



3. In an air pressure brake comprising a casing, two coaxial cylinders, arranged opposite each other in such casing and differing in diameter, pistons, one for each cylinder, working in such cylinders and adapted to move in opposite directions, piston rods connected to such pistons, springs arranged and adapted to act on the sides remotest from each other, the spring of the larger piston being stronger than that of the smaller piston, means for sup-

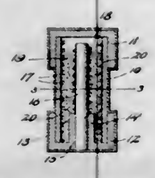
plying air under pressure to the ends of the cylinders next to each other, a pawl and ratchet gear comprising a ratchet rack connected to the smaller piston and a pawl pivoted in the said casing and adapted to engage into the said ratchet rack and means for actuating the said pawl, the said pawl and ratchet gear being arranged between the two pistons.

1,677,034. TOY TORPEDO. KOBY KOHN, New York, N. Y. Filed Oct. 6, 1926. Serial No. 139,922. 15 Claims. (Cl. 102—25.)



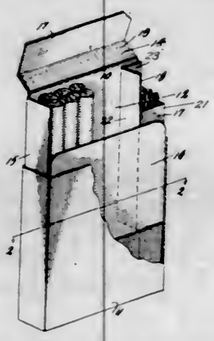
1. In a toy torpedo, in combination, a container having a pair of walls substantially parallel to each other and close together, abrasive on said walls and explosive material between the walls, said walls being made of material deformable on impact.

1,677,035. TOY TORPEDO. KOBY KOHN, New York, N. Y. Filed Oct. 6, 1926. Serial No. 139,923. 10 Claims. (Cl. 102—25.)



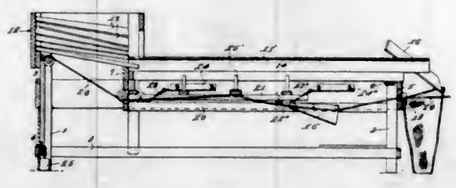
1. In a toy torpedo, in combination, a closed container, an explosive loosely arranged in said container, a resilient member projecting from the inner surface of a wall of the container, said member being adapted to cooperate with the inner surface of a wall to explode said explosive when the torpedo receives a violent impact.

1,677,036. COMBINATION CIGARETTE AND MATCH BOX. RUDOLPH A. KRATOCHWILL, Greeneville, Tenn. Filed Nov. 19, 1925. Serial No. 70,176. 2 Claims. (Cl. 206—48.)



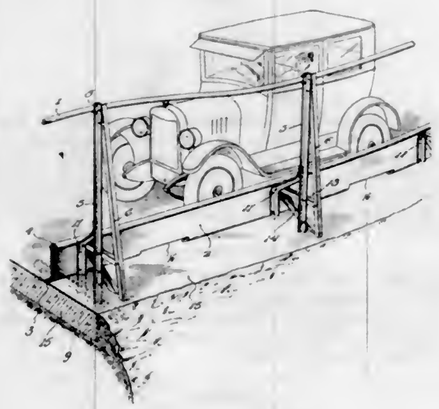
1. A box of the class described including a main container comprising a back, sides, a front flap, and a bottom, the sides and bottom being integrally connected with the said back, and an auxiliary container within the main container at one side thereof including the front integrally connected with the respective side of the main container, a side integrally connected with the said front and positioned opposite to the said side of the main container, a back integrally connected to the said side of the auxiliary container and engaging the inner side of the back of the main container, the said auxiliary container being open and unobstructed at its upper end, and the front of the auxiliary container having a transverse incision defining a flap.

1,677,037. FRUIT-GRADING MACHINE. FRED F. LEWEKE, Rocky Ford, Colo.; Eva Leweke administratrix of said Fred F. Leweke, deceased. Filed June 10, 1927. Serial No. 197,923. 2 Claims. (Cl. 209—99.)



1. A vegetable grader comprising a longitudinally slotted inclined hopper, a slatted riddle connected thereto having its slats varying in distance apart, a reciprocable wheeled carriage with flexible rake fingers traversing the slats below the riddle, and pivoted guides for lowering and raising the carriage at the limits of its excursions and flexible means for facilitating manual reciprocation of the carriage.

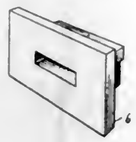
1,677,038. SAFETY GUARD FOR DANGEROUS HIGHWAYS. HARRY C. LOOKABAUGH, Jacksonville, Fla. Filed Feb. 9, 1927. Serial No. 166,972. 9 Claims. (Cl. 256—1.)



1. Protective means at the side of a highway, the same comprising a vertically disposed plate having its lower edge portion curved inwardly and in contact with the surface of the highway, and having its upper edge portion curved outwardly and downwardly to provide a stiffening and reinforcing roll.

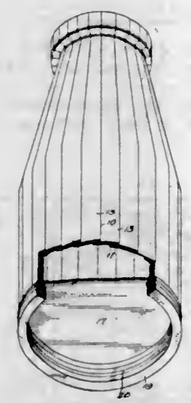
9. Protective means at the side of a highway, the same consisting of an upper member having portions curved inwardly and outwardly, and a lower wheel engaging member set inwardly from the upper member and spaced therefrom, and connecting means for the members arranged at intervals.

1,677,039. TILING. WILLETT C. MAGRUDER, Louisville, Ky. Filed Dec. 7, 1927. Serial No. 238,301. 1 Claim. (Cl. 72—18.)



A tile for walls comprising a substantially flat face surrounded by matching edges, an extension on the back of the tile at substantially right angles thereto and an opening through the extension and the face of the tile, the cross sectional area of the opening being substantially equal throughout its length, and the central axis of the opening extending substantially at right angles to the face of the tile, substantially as set forth.

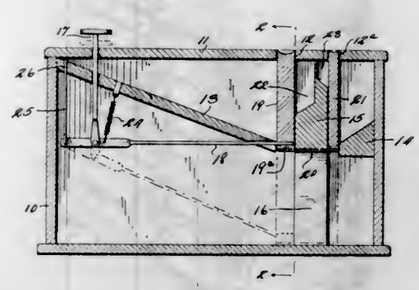
1,677,040. PAPER RECEPTACLE. CORNELIUS HENRY MCGIEHAN, Glens Falls, N. Y. Filed Oct. 19, 1923, Serial No. 669,604. Renewed May 17, 1928. 1 Claim. (Cl. 229—21.)



As a new article of manufacture, a milk bottle formed of a circular sheet of paper crimped to form a plurality of folds, the sheet being pressed into the shape of a bottle, the relatively thick multi-ply side walls of which are formed by the folded portion of the sheet, the central uncrimped portion of the sheet constituting a relatively thin fragile top of a single thickness of paper integral with the side walls, the bottom of said bottle constituting a filling opening, and a closure element for permanently sealing said filling opening after the contents of the bottle have been introduced.

1,677,041. CIGARETTE AND MATCH DISPENSER. ROBERT D. MILLS, Jr., Nashville, Tenn. Filed July 30, 1927. Serial No. 209,483. 3 Claims. (Cl. 312—79.)

1. A cigarette and match dispensing device comprising a box-like casing a top formed adjacent one end with an opening, a partition extending downward from said opening to the bottom of the box and spaced from the lateral walls of the opening to provide a cigarette and a match discharging opening on each side of the partition, the lower portion of the partition being vertically slotted and the partition defining a match compartment and a cigarette compartment, one on each side thereof, downwardly inclined false bottoms forming the bottoms of said compartments and having their lower ends spaced from the partition, a cross member extending through the slot in the partition, lifters mounted upon the cross



member and fitting the spaces between the lower ends of the false bottoms and the partition and movable upward through the openings in the top of the box, each of said lifters being transversely concave upon its upper edge face, and a handle operatively connected to one of said lifters and extending through one wall of the casing, the casing being formed with an opening to permit the handle to be vertically shifted.

1,677,042. CURVILINEAR FABRIC. JOHN V. MOORE, Pawtucket, R. I., assignor to Moore Fabric Company, Pawtucket, R. I., a Corporation of Rhode Island. Filed Apr. 23, 1926. Serial No. 104,180. 3 Claims. (Cl. 139—380.)

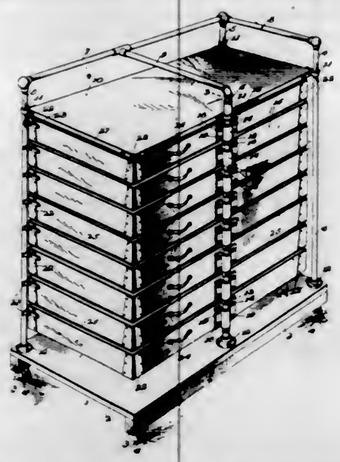


1. A curvilinear fabric woven as a single integral structure and adapted to be used as a tire lining strip, said fabric being curved longitudinally and being also curved in cross section and being concave transversely on its outer face and convex on its inner face and said fabric having two full selvage edges.

1,677,043. BREAD PROOFER. JAMES M. MORRILL, Milbank, S. Dak. Filed June 22, 1926. Serial No. 117,797. 3 Claims. (Cl. 45—95.)

1. A device of the character described comprising a base, a framework mounted upon the base comprising a pair of uprights at one edge spaced substantially the full length of the base and a second pair of uprights at the opposite edge spaced approximately half length of the base, said arrangement leaving one corner of the base

vacant, a plurality of trays each extending substantially the full length of the base and located within the framework in superimposed position, and means hingedly

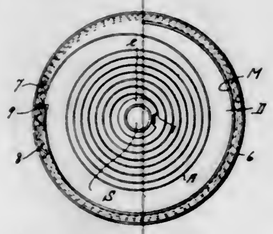


mounting the trays upon one of the latter pair of uprights permitting swinging the trays through said corner vacancy into open positions.

1,677,044. WASHING COMPOUND. THOMAS MOSS, Long Beach, Calif. Filed May 9, 1922. Serial No. 559,595. 1 Claim. (Cl. 87—5.)

A cleaning mixture consisting of: soap and sodium thiosulphate in substantially equal parts.

1,677,045. SPRING MOTOR. DANIEL E. ODOM, Bennettsville, S. C. Filed Jan. 25, 1927. Serial No 163,417. 3 Claims. (Cl. 185—45.)



1. In combination with a shaft, a drum mounted thereon having a grooved peripheral wall, a spiral spring surrounding the shaft and having its inner end portion engaged therewith, the outer end portion of the spring being provided with an opening, an arcuate resilient member within the drum, the outer extremity of the spring extending between the resilient member and the peripheral wall of the drum, and an outstanding part carried by the resilient member and extending through the opening in in the spring to seat within a groove of the drum.

1,677,046. FLY SWATTER. ANDERS OLSON, Galesburg, Ill. Filed Mar. 22, 1926. Serial No. 96,464. 1 Claim. (Cl. 43—135.)

A device of the class described, comprising a rod and handle therefor, an auxiliary rod having a telescopic connection with said first-named rod, a swatter hinged to the end of said auxiliary rod and means for holding the same in adjusted positions with reference to said rod, a trigger at the handle end of said first-named rod adapted for connection with said auxiliary rod, to hold said rods



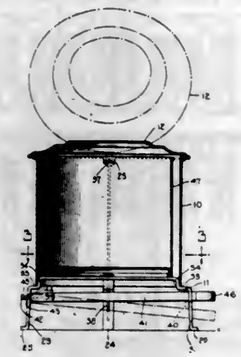
in fully telescoped relations, and a coiled spring on one of said rods, adapted to cause a sudden extension of said rods upon said trigger being released.

1,677,047. BRAKE MECHANISM FOR TRACTION DEVICES OF THE ENDLESS-BELT TYPE. BENJAMIN F. PAGENHART, Minneapolis, Minn., assignor of one-half to Thomas Young, Minneapolis, Minn. Filed July 16 1926. Serial No. 122,825. 8 Claims. (Cl. 180—9.1.)

1. The combination with a motor-propelled vehicle having an axle and a traction device comprising a track mounted to oscillate about the axis of the axle, an endless belt mounted on the track and having ground-engaging elements and power means including a wheel for driving the belt, said wheel being journaled on a part carried by the track with its axis parallel to the axle and radially spaced therefrom, of brake mechanism for the belt operative through the wheel and including cooperating brake members, one of which is secured for common rotation with the wheel and the other of which is anchored in respect to said rotative member, and brake-setting mechanism including a member for operating the anchored brake member and extending between the axle and the anchored brake member and arranged to shift about the axis of the axle under the oscillatory movement of the track.

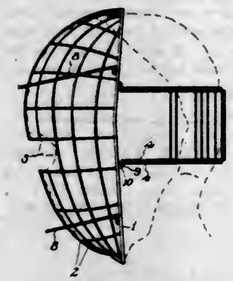
1,677,048. SANITARY REFUSE CAN. MORRIS PFEFFER, New York, N. Y., assignor to Enterprise Tinware Company, New York, N. Y., a Corporation of New York. Filed Apr. 1, 1927. Serial No. 180,093. 4 Claims. (Cl. 220—36.)

1. A receptacle comprising a housing, a closure hinged adjacent to the perimeter of the housing and provided with an arm extending beyond the fulcrum, a lever fulcrumed beneath and extending diametrically beyond the housing to oscillate in a plane substantially perpendicular to the plane of the hinging of the closure, a bar pivoted



to the extension of the closure and provided with a substantially right angular bend extending under the housing and supporting the lever.

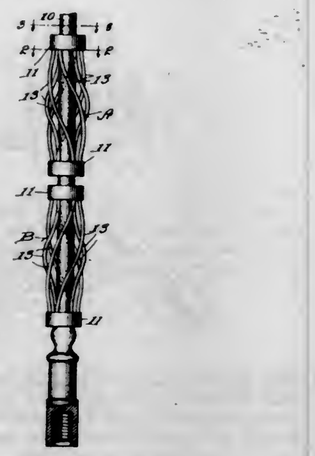
1,677,049. TOWEL HOLDER. WILLIAM N. PROCTOR, Knoxville, Tenn. Filed Mar. 7, 1927. Serial No. 173,565. 3 Claims. (Cl. 128—163.)



1. A device for the purpose set forth comprising a bowl-like open sided receptacle shaped to conform to the human head, supporting legs adjacent the ends of the receptacle whereby to support it with the open side up, and retaining members at the open side of the receptacle between the legs to retain it upon the head.

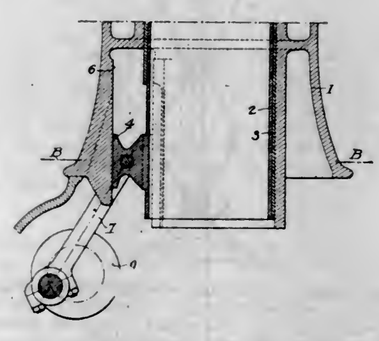
1,677,050. PARAFFIN CUTTER. MARTIN L. REED and HORACE E. BULLA, Wilson, Okla. Filed June 13, 1927. Serial No. 198,523. 1 Claim. (Cl. 166—18.)

The combination with a pumping rod, of a pair of paraffin cutters mounted upon the rod in superimposed relation, each cutter including a pair of spaced collars adapted to loosely surround the rod, and a plurality of spirally arranged cutting rods terminally connected with each pair of said collars, with the rods of one cutter reversely disposed with respect to those of the other cutter, and each of said collars including pivoted sections, a tongue



and groove connection between the meeting ends of said sections, and a removable pin for holding said sections associated.

1,677,051. SLEEVE OF THE ENGINE OF THE SLEEVE-VALVE TYPE. CHARLES SCHAEFFER, Paris, France, assignor to Société Anonyme des Anciens Etablissements Panhard & Levassor, Paris, France. Filed Feb. 1, 1927, Serial No. 165,168, and in France Feb. 8, 1926. 2 Claims. (Cl. 123—75.)

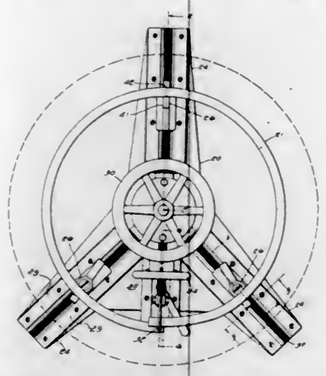


1. In an engine of the sleeve-valve type, a sleeve actuated by a crank, and a link pivoted to a lateral lug formed on said sleeve, a stationary guide path adapted to guide the lug of the said sleeve, said guide path comprising parallel sliding surfaces between which the said lug is guided after the manner of a cross-head, the said sliding surfaces being substantially tangential to the said sleeve.

1,677,052. TIRE-CHANGING APPARATUS. ALBERT C. SENGER, Hamilton, Ohio. Filed Dec. 10, 1924. Serial No. 754,979. 4 Claims. (Cl. 157—1.)

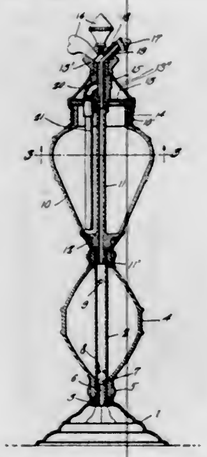
1. In a tire changer, a support adapted to receive thereon a transversely split rim, means carried by said support for effecting contraction or expansion of the rim,

said means comprising a block guided for movement on said support, means for moving said block inwardly or outwardly, and rim-engaging means for transmitting motion of said block to the rim, said rim-engaging means



being pivotally connected with the block to permit movement thereof in a circumferential direction, and yielding means for returning said rim-engaging means to a normal position after such circumferential movement thereof.

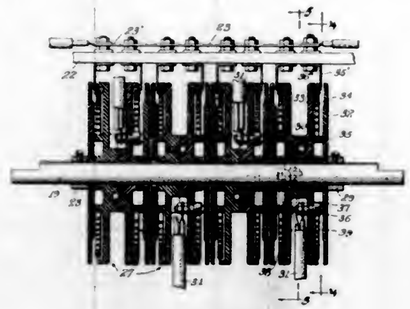
1,677,053. ATOMIZER. ARTHUR J. SHAUKIS, Haverhill, Mass. Filed Apr. 3, 1926. Serial No. 99,648. 2 Claims. (Cl. 299—88.)



1. An atomizer comprising a base, a tube connected therewith, a collapsible member supported by the tube and through which the tube passes, a valve at the lower end of the tube, said tube having openings therein for connecting its interior with the interior of the collapsible member, a liquid container, a tube therein having a lower extension extending into the upper end of the first tube, a removable head for the container, a nozzle carried thereby, means for connecting the nozzle with the tube in the container and means for connecting the nozzle with the lower part of the container.

1,677,054. HEATER-SUPPORTING CHANDELIER. LOUIS E. SHAW, East Orange, N. J., assignor to Ernest Unger, New York, N. Y. Filed Dec. 11, 1925. Serial No. 74,735. 9 Claims. (Cl. 219—24.)

6. In an apparatus for waving hair, the combination of a drum formed of insulating material, a heater supporting cable adapted to be wound on said drum, a two conducting pin carried and insulated by said drum, a coiled spring positioned on one side of the drum for turning the drum to wind the cable thereon, one end of the



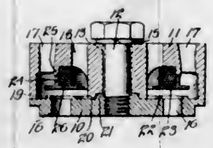
spring secured to one end of the pin, an end of the cable connected electrically to the other end of the pin and means for supplying current to the other end of the spring.

1,677,055. DIAMOND LATHE TOOL. ABRAHAM SIMONS, New York, N. Y. Filed Mar. 20, 1925. Serial No. 16,878. 3 Claims. (Cl. 29—99.)



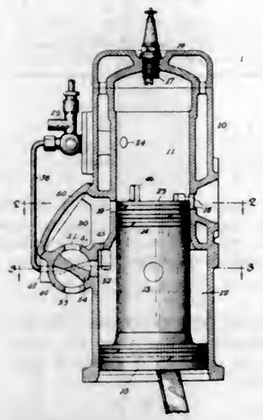
1. In combination, a holder having a plurality of longitudinal and substantially planar faces, a diamond point tool having a shank located within and connected to said holder, said shank being inclined to the longitudinal axis of the holder the front of said shank having an exposed diamond and intersecting two of the adjacent faces of said holder, the tip of said diamond projecting in front of the front of said holder, said diamond having a plurality of cutting edges.

1,677,056. CHECK VALVE. NORMAN M. SMALL, Waynesboro, Pa., assignor to Frick Company, Waynesboro, Pa., a Corporation. Filed Sept. 6, 1927. Serial No. 217,748. 2 Claims. (Cl. 251—119.)



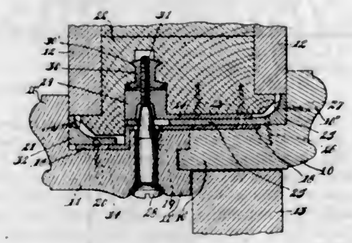
1. The combination of upper and lower detachable sections having fluid passages therethrough and forming a valve body, a seat in said valve body, a ring plate having a flat portion for cooperation with said seat for closing the passages through the valve, a spring for holding said ring plate upon the seat and having one end confined in a channel in one of the members of the valve body and having its other end disposed in a channel in the ring plate whereby its motion will be guided and held against lateral movement entirely by the action of the spring, substantially as set forth.

1,677,057. AIR COMPRESSOR FOR INTERNAL-COMBUSTION ENGINES. ALBERT B. STREETER, New York, N. Y., assignor to Dual Motors Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 3, 1925. Serial No. 12,990. 11 Claims. (Cl. 123—67.)



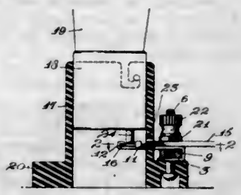
1. In an internal combustion engine, the combination of an explosion cylinder having an air scavenging port and a fuel inlet port, an axially aligned cylinder of larger diameter than the explosion cylinder, a trunk piston having two heads, one working in each cylinder and forming in the larger cylinder an annular pump chamber, an air reservoir at all times open to the air scavenging port, a cylindrical rotary valve casing having three circumferentially spaced openings, one an air intake opening directly to the external atmosphere, the second opening into the pump chamber and the third opening into the reservoir, and a rotary blade valve mounted in said valve casing for periodically opening the pump chamber to the external atmosphere and to the reservoir.

1,677,058. DOOR AND JAMB CONSTRUCTION. HARRY B. STEIN, Chicago, Ill. Filed June 3, 1927. Serial No. 196,365. 7 Claims. (Cl. 20—12.)



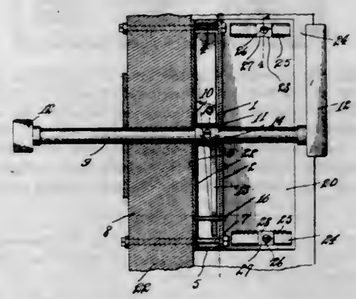
1. A construction of the type described comprising fastening mechanism including separable plates attachable to separable jamb parts and tapered screw means extending through said plates whereby to draw the plates together, for adjustably fastening together and mounting in position separable jamb parts with stop and casing means thereon, to permit convenient separation and removal of said jamb parts with stop and casing means.

1,677,059. ELECTRICAL CONTACTOR. PAUL M. TEBBS, Harrisburg, Pa. Filed Dec. 1, 1924. Serial No. 753,267. 4 Claims. (Cl. 173—328.)



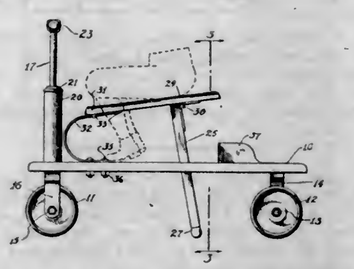
1. The combination of a socket having an opening, an electrical conductor including a wire, and a support mounted upon the socket, extending through the opening and holding a portion of the wire in position for direct contact by an appliance inserted in said socket, said support having means with which the wire engages for stabilization.

1,677,060. DOOR FASTENER. JOSEPH G. THORNE, Barnum, Minn. Filed Sept. 24, 1926. Serial No. 137,551. 6 Claims. (Cl. 292—340.)



1. A keeper formed with a slot having a side wall converging inwardly toward an opposed side wall, and adjustable securing means for said keeper adapted to be passed through the slot and engaged with a support with a portion fitting into said slot and bearing against the opposed walls of the slot to releasably secure the keeper in a set position but permit adjustment of the keeper longitudinally of the slot when the securing means is loosened.

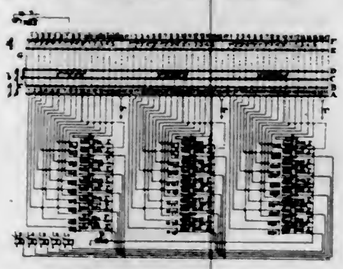
1,677,061. VELOCIPEDE. JAMES TOMAN, Chicago, Ill. Filed Jan. 5, 1927. Serial No. 159,168. 3 Claims. (Cl. 208—38.)



1. In a velocipede, a wheel bearing platform, a seat member, a resilient strap operatively connecting the seat member to the platform and normally supporting

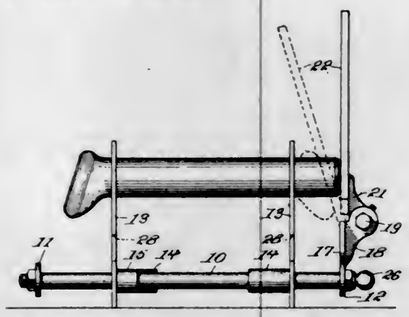
the seat member from said platform and functioning to permit movement of the seat member relatively to said platform, a propeller member, and a spring hinge operatively connecting the propeller member to the seat member, said propeller member being operable by movement of the seat member relative to the platform for propelling said platform.

1,677,062. SIGNALING SYSTEM APPLICABLE TO TELEGRAPHY AND TELEMECHANICAL TRANSMISSION. CHARLES VERDAN, Strasbourg, and LOUIS MARIE JEAN LOISEAU, Paris, France, assignors to Compagnie Francaise pour l'Exploitation des Procedes Thomson-Houston, a French Limited Company, and Ateliers J. Carpentier, a French Limited Company. Filed May 25, 1925, Serial No. 32,782, and in France June 4, 1924. 10 Claims. (Cl. 178—52.)



1. The improvement in the art of signaling devised to avoid the effect of disturbing influences, consisting in emitting signals, repeating the signals in accordance with a predetermined rule whereby the received signals and repetitions of these signals are identified, and adopting only signals of which the initial receptions and their repetitions are correspondingly identified.

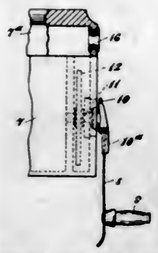
1,677,063. GAUGE TOOL. EMANUEL E. WAGNER, Lamar, Mo. Filed Nov. 4, 1927. Serial No. 231,121. 4 Claims. (Cl. 33—95.)



1. A gauge tool comprising a frame, a carriage slidably mounted thereon, and a marking bar swingably mounted upon the frame being adapted to be swung toward and away from the adjacent end of the work to determine the center thereof when supported upon the carriage.

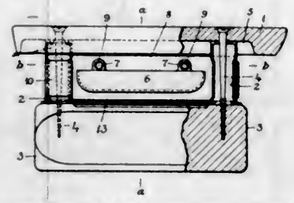
1,677,064. FASTENING FOR BOXES OR CASES CONTAINING ROTARY SHARPENING APPARATUS FOR RAZORS AND EDGE TOOLS. JAMES ALEX DENBY WATT, London, England. Filed Sept. 5, 1925, Serial No. 54,746, and in Great Britain Sept. 10, 1924. 3 Claims. (Cl. 51—72.)

1. In combination, a box having a lid, a sharpening apparatus including a tool rotatably mounted in said box and including a drive shaft, means pivotally connected to the drive shaft for turning said shaft from the exterior of the box, and arranged to overlap the lid, engaging means carried by the turning means, and



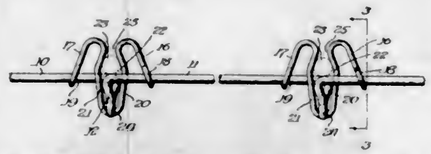
a cooperating engaging part carried by the lid and adapted to be engaged by the engaging means on the turning means when the said turning means is moved about its pivot to overlap the lid.

1,677,065. HAND IRON. JAMES WILSON-HAFFENDEN, London, England. Filed Oct. 14, 1926, Serial No. 141,551, and in Great Britain July 9, 1926. 3 Claims. (Cl. 138—23.2.)



1. In combination, a sad-iron, two pillars connected to and projecting from the top side thereof, a combined handle and iron support connected to said pillars, and a combined burner and deflector swingingly connected to one pillar and provided with means for detachably engaging the other pillar.

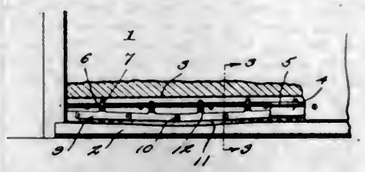
1,677,066. BAR CLIP. WILLIAM E. WHITE, Chicago, Ill. Filed Dec. 12, 1925. Serial No. 75,113. 6 Claims. (Cl. 72—122.)



2. In a spacer, the combination of a continuous wire having chairs formed at spaced intervals thereof, and a bar clip consisting of a continuous wire having a loop that straddles the chair beneath the same and provides a pocket for a bar above the chair, the ends of the looped wire extending diagonally from the loop and being attached to the continuous wire at opposite sides of the chair.

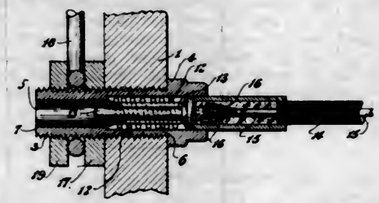
1,677,067. AUTOMATIC ALL-WEATHER STRIP. FRED D. ZIMMERMAN and CLINTON WELLS, Mount Clare, Nebr.; said Wells assignor to said Zimmerman. Filed Apr. 17, 1926. Serial No. 102,749. 2 Claims. (Cl. 20—68.)

1. The combination with a swingably mounted door which has its lower edge grooved longitudinally, of a substantially U-shaped member having its sides fixed to the side walls of the slot, a compressible strip of a length equaling that of the slot, plates on the sides of the strip having lapping ends which are pivotally connected together and to the strip, each of said plates having a central inwardly directed flanged portion that



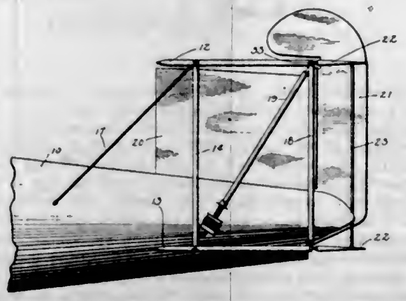
merges into an upstanding finger, said fingers passing through openings in the top of the U-shaped members and springs surrounding the fingers and exerting a tension between the flanged portions of the plates and the top of the U-shaped member.

1,677,068. TELEPHONE PLUG. MILTON ALDEN, Springfield, Mass., assignor to Alden Manufacturing Co., Springfield, Mass., a Corporation of Massachusetts. Filed Oct. 12, 1923. Serial No. 668,126. 1 Claim. (Cl. 173—363.)



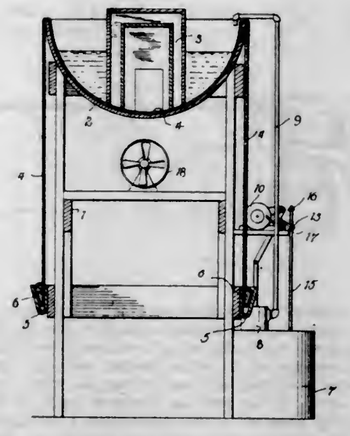
In combination, a one piece member having an external thread for a part of its length which thread terminates in a shoulder part at one end and said member having an internal opening with an unthreaded surface of different diameters extending throughout the length of the member, a tubular member having a smooth outer surface secured in the smaller part of the unthreaded opening, which tubular member is formed with a slitted portion for providing resilient parallel finger ends and a coiled spring in the larger part of the unthreaded opening of the externally threaded member for engaging and normally forcing the said ends towards each other, whereby when a plug having a long cylindrical surface is inserted in the tubular member between the said ends the latter will yield outwardly against the action of said spring means.

1,677,069. EMPENNAGE AND PLANE ARRANGEMENT. WALTER H. BARLING, Astoria, N. Y. Filed June 2, 1925. Serial No. 34,403. 15 Claims. (Cl. 244—29.)



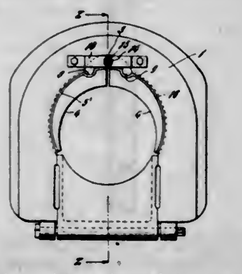
1. In an aircraft, the combination of a pair of surfaces spaced vertically, a strut there-between, one of said surfaces being pivotally connected at said strut, and a diagonally disposed rigid but extensible and contractible incidence member connected between said surface and the other surface.

1,677,070. AIR COOLER. DAVID J. BESSE, San Angelo, Tex. Filed Mar. 16, 1927. Serial No. 175,780. 1 Claim. (Cl. 62—139.)



An air cooler including a framework of open construction, a reservoir at the top of the framework to receive water and ice, troughs at opposite sides of the framework adjacent the bottom thereof, a fabric dipping into the reservoir and extending along opposite sides of the framework and having its lower end terminating in the troughs, a tank disposed below the troughs to receive the drippings therefrom, a pump for drawing water from the tank and dispensing it into the reservoir, float controlled means actuated by the change of level of the water in the tank to throw the pump into and out of action, and a fan disposed below the reservoir and between the depending portions of fabric to create a positive circulation of air.

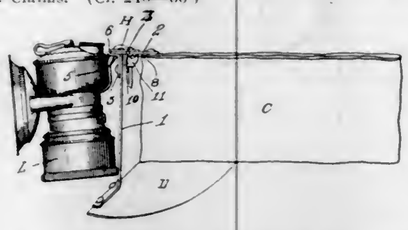
1,677,071. CROWN BEARING. RALPH D. BOBBITT, Norfolk, Va. Filed Apr. 12, 1926. Serial No. 101,506. 1 Claim. (Cl. 308—65.)



The combination with a journal box, of brass bearings for the journal therein, each of said bearings comprising two segmental sections which are gradually decreased in thickness from their confronting to their opposite ends, means between the bearing sections and the box for preventing the longitudinal movement of the said sections, said box, at the top thereof between the confronting ends of the bearing sections having an opening therethrough whose wall is rounded, a segmental member having its rounded surface received in the round opening, said member having its under face, at its corners formed with depending lugs which are arranged at opposite angles, and the segmental sections having angu-

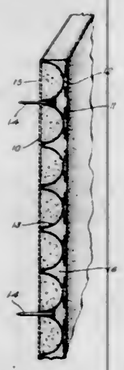
larly disposed grooves to receive the lugs therein, a substantially U-shaped bracket having its ends fixed on the face of the box, a screw revoluble but held from longitudinal movement through the bracket, and said last mentioned segmental member having a threaded opening in which the screw is threaded, as and for the purpose set forth.

1,677,072. LAMP HOLDER. GEORGE S. CLARK, Huntington, W. Va. Filed Apr. 3, 1926. Serial No. 99,622. 2 Claims. (Cl. 240—60.)



1. A holder for the hook of a miner's lamp, comprising an angle member fixedly secured to the top and arranged at the front of a miner's cap, and having a notch at the juncture of the walls thereof and the horizontal wall being provided with an opening in which the beak of the hook of the lamp is received prior to the said hook being inserted in the notch, and a spring member fixedly secured to the horizontal branch of the angle member and including angularly disposed downwardly converging resilient inclined jaws, and a back portion which exerts a tension between the jaws for forcing the beak of the hook into frictional contact with the jaws when the said beak is arranged in supported position.

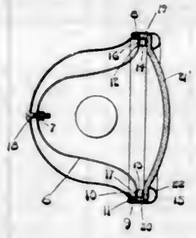
1,677,073. BUILDING MATERIAL. GEORGE COHEN, New York, N. Y. Filed Sept. 10, 1926. Serial No. 134,710. 8 Claims. (Cl. 72—116.)



6. A three-ply metal lath including flat outer plies one of which is foraminous and an intermediate ply corrugated to produce alternate undercut grooves and ribs adapted to serve as key anchorages for plaster forced through the foraminous ply.

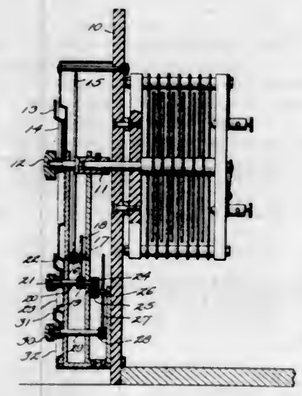
1,677,074. CLOSURE FASTENER AND GLASS RETAINER. THOMAS J. CORCORAN, Cincinnati, Ohio, assignor to The Thos. J. Corcoran Lamp Co., Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 3, 1925. Serial No. 47,748. 1 Claim. (Cl. 240—41.)

A closure fastener for an automobile lamp having an open ended body, a substantially cylindrical notched flange extending from and surrounding the open end of the body, a closure rim having a hooked rear edge adapted to fit over the flange at the open end of the body, and a glass adapted to occupy the rim, comprising a main member adapted to occupy the body in approximation of the interior shape thereof and having two branches each one of which extends to and occupies one of the flange notches at the open end of the body and extends radially beyond it to engage the hooked edge of the rim, springs extending transversely of and attached to the ends of the



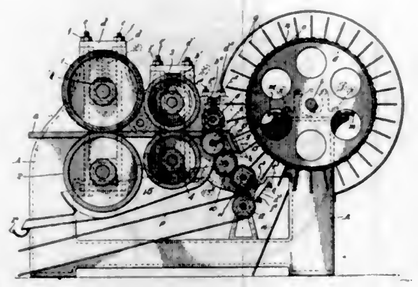
member adapted to engage the glass to retain it in position relatively to the rim and simultaneously therewith to retain the branches in engagement with the hooked rear edge of the rim, whereby the member is maintained yieldingly attached relatively to the rim, glass and body when in position therewith, and means adapted exteriorly of the body to draw the member into and the glass and rim upon the body and into relatively fixed relation to each other.

1,677,075. RADIO TUNING DIAL. LEONARD E. HORSEY, Contesville, Pa. Filed June 12, 1926. Serial No. 115,593. 1 Claim. (Cl. 116—124.)



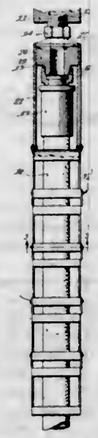
In a radio tuning device, a main shaft, a tuning element controlled thereby, a second shaft, gearing for rotating the main shaft through a predetermined angle, upon revolution of the second shaft, a third shaft, gearing for rotating the second shaft by the third shaft, and thence imparting movement to the main shaft through a fractional part of the angle first named, an intermediate shaft for each set of gearing, the shafts exclusive of the intermediate shafts including operating means, having their axes of rotation in parallel relation, and indicating devices on the third and second shafts, rotatable in a single direction and determining the extent of rotation in the same direction of the main shaft and tuning element, in fractions of a degree and in multiples of said fractional portions.

1,677,076. DEFIBRATING MACHINE. JOSEPH DUFOUR, Guatemala City, Guatemala. Filed Dec. 16, 1924. Serial No. 756,318. 4 Claims. (Cl. 19—27.)



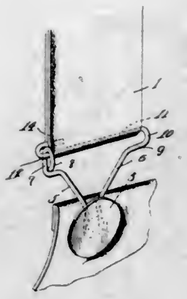
1. In a machine for defibrating vegetable material the combination of crushing rolls, a series of rotary blades which are flexible so as to have a dragging action and having continuous operating edges for acting on the crushed material, and means for holding the fibers in a thin sheet in elongated condition substantially parallel with the line of operation of the blades and just outside of the path of said blades while the non-fibrous material is removed by the blades.

1,677,077. HOSE PROTECTOR. DRURY D. FORTUNE, Cliffside, N. C., assignor of one-half to Burwell B. Byers, Shelby, N. C. Filed Sept. 20, 1927. Serial No. 220,773. 4 Claims. (Cl. 137—90.)



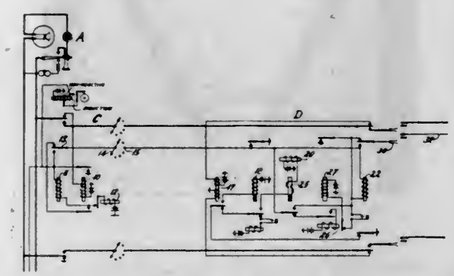
1. A device of the character described comprising a sleeve, a flexible sheath connected to the sleeve and comprising a plurality of sections pivotally connected together, each section being formed of a plurality of rings, and straps connecting said rings together, an end of each strap projecting beyond a ring and pivotally connected to a ring of an adjacent section.

1,677,078. SUPPORTING LOOP FOR GARMENTS, ETC. ROBERT E. GARRETT, Nashville, Tenn., assignor of one-half to Franz J. Schubert, Nashville, Tenn. Filed Apr. 29, 1927. Serial No. 187,613. 1 Claim. (Cl. 24—224.)



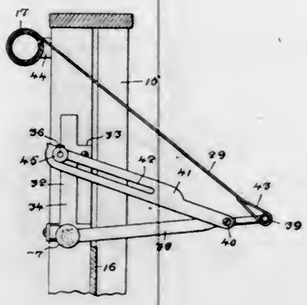
A device of the character described, composed of a single length of resilient wire shaped to provide a loop member of irregular and approximately triangular contour, said member comprising a button loop from which the sides of the member taper upwardly and outwardly in approximately V-shape and at the top of the V are each laterally extended oppositely outward, one lateral extension terminating in an upwardly, forwardly and downwardly bent eye lying in a plane transverse to the plane of the V, and the other lateral extension being bent reversely and extended transversely across and above the top of the V to form a single strap supported bar, the end of said bar being extended through and beyond said eye and being bent backwardly again over and above the eye to terminate at a point inclosed between the folds of a supporting webbing or strap looped over said bar, the space between the end of said bar and the engaging eye permitting expansion of the sides of the V during the insertion of a button in the button loop, and the forwardly and downwardly bent end of said eye being initially opened for the insertion of the strap bar therein, the material of the eye permitting and facilitating closure and opening thereof.

1,677,079. ZONE-METERING TELEPHONE SYSTEM. ROY F. GOULD, Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed Mar. 23, 1927. Serial No. 177,484. 10 Claims. (Cl. 179—9.)



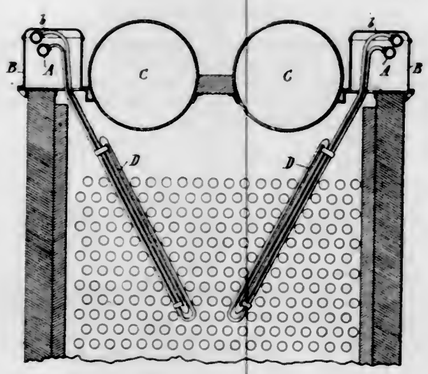
1. In a measured service telephone system, a meter having operating and non-inductive windings connected in series, and contacts on said meter effective, when operated, to short circuit said operating winding.

1,677,080. AWNING. GEORGE R. HALL, Waterville, Kans. Filed Mar. 23, 1927. Serial No. 177,756. 1 Claim. (Cl. 156—44.)



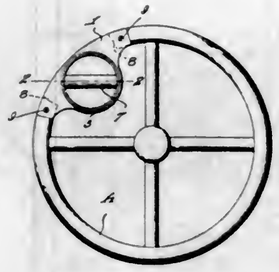
In a roller awning construction provided with an outwardly swinging bail and a slotted brace bar having one end pivotally secured to the bail, a bracket comprising upper and lower spaced horizontally disposed L-shaped attaching bars, a vertically disposed bar connecting the attaching bars, an offset ear extending from the lower L-shaped bar for pivotal connection with the bail, a threaded stud extending from the upper portion of the bracket to receive the slotted brace bar and a binding nut threadedly engaging the stud to bear against the brace bar and hold the bail in adjusted position.

1,677,081. SUPERHEATER AND BOILER COMBINATION. JOHN ROBERT HANNAN, Shortlands, England, and WILLIAM ERNEST ENGLISH, Bishopston, South Wales. Filed Sept. 1, 1925, Serial No. 53,845, and in Great Britain July 9, 1925. 1 Claim. (Cl. 122—476.)



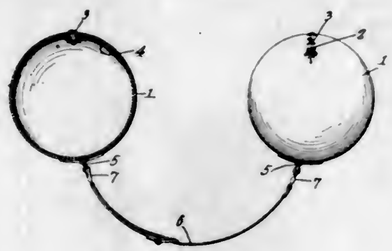
The combination of a water tube boiler of the horizontal type having its tubes arranged in spaced parallel rows, each row lying in a plane inclined at a substantial angle to the vertical, and a superheater comprising headers, disposed above the boiler tube level, and tube elements communicating with said headers and extending into the space between two adjacent rows of boiler tubes.

1,677,082. STEERING WHEEL. EDWARD L. HECKMAN, Notre Dame, Ind. Filed June 24, 1927. Serial No. 201,230. 2 Claims. (Cl. 74—33.)



1. In combination with a steering wheel of a vehicle, a frame connected with said wheel, a ring rotatably mounted in the frame and a cross piece carried by the ring and forming a hand grip.

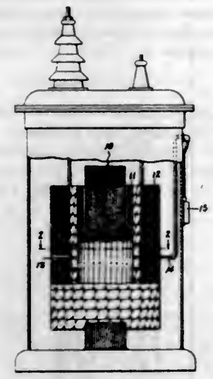
1,677,083. WATER WINGS. JOEL ROBERT HEMINGER, Akron, Ohio. Filed Jan. 16, 1926. Serial No. 81,754. 1 Claim. (Cl. 9—17.)



A device of the class described including a pair of spherical covers of flexible material each having a smooth outer surface, there being a slit in each cover, an inflatable bladder insertable through the slit into each cover, means for drawing together the edges of the slit to close the cover and fully conceal and protect the bladder, a ring fixedly attached to each cover at a point substantially diametrically opposite the slits therein, a flexible breast strap, means at one end of the strap for detachably engaging one of the rings, and means adjustably connected to the other end of the strap for detachably engaging the other ring, said strap being adjustable to hold the covers at different distances apart, each cover with the inflated bladder therein, constituting a spherical float.

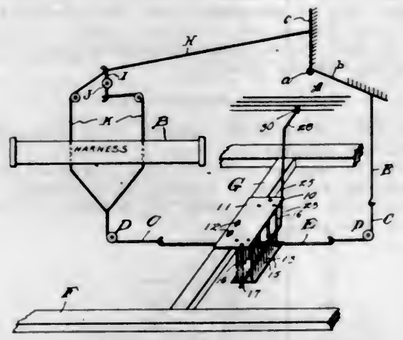
1,677,084. TRANSFORMER. ALLAN B. HENDRICKS, Jr., Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Sept. 2, 1927. Serial No. 217,035. 2 Claims. (Cl. 175—361.)

1. The combination with a transformer having a core provided with primary and secondary windings, of an auxiliary winding enclosing at least a portion of the magnetic leakage flux path of said transformer, said auxiliary



winding being arranged noninductively with respect to the main magnetic flux in said core and being provided with terminals for connection to an outside circuit.

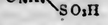
1,677,085. STOP MOTION FOR LOOMS. PAUL C. HERING, Lawrence, Mass. Filed Feb. 27, 1926. Serial No. 91,134. 6 Claims. (Cl. 139—337.)



1. In combination with a warp stop-motion and the harnesses and harness straps of a loom, a comb movable by said motion, and engageable by a harness strap upon breakage of the latter, and means coacting with the comb and broken harness strap to arrest motion of the comb.

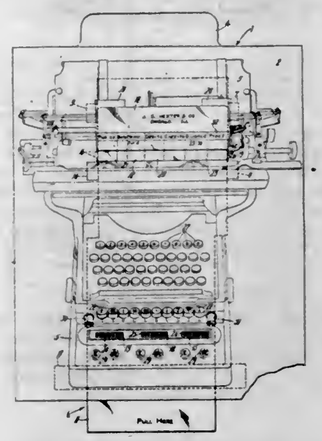
1,677,086. PROCESS FOR CONVERTING CYANNAPHTHALENE SULPHONIC ACIDS. RICHARD HERZ and FRITZ SCHULTE, Frankfort-on-the-Main, and WERNER ZERWECK, Fechenheim, near Frankfort-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 24, 1927, Serial No. 170,732, and in Germany May 17, 1926. 6 Claims. (Cl. 260—110.)

1. The process which comprises treating with an alkaline acting agent a compound of the general formula



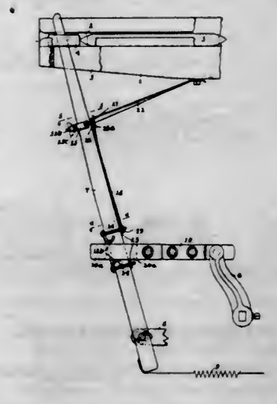
wherein the X's represent hydrogen atoms of which one or more may be replaced by a monovalent substituent and wherein the cyanogen and the sulfonic acid groups stand in ortho or para position to each other.

1,677,087. ACCOUNTING-MACHINE DEMONSTRATION CHART. JULIAN S. HEXTER, Chicago, Ill., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 23, 1925. Serial No. 25,218. 5 Claims. (Cl. 35—16.)



1. A frame comprising layers of cardboard secured together in a manner to leave space therebetween, a slide inserted in said space and having entries thereon, a representation of a computing and typing machine appearing on the face of the frame, sight-openings being cut through the frame in alignment with the slide and coming into registration with the entries appearing thereon upon manipulation of said slide, stops upon said slide and engaging guide-straps on the frame, a holding tab secured to the frame, and a finger-grip on the extremity of the slide.

1,677,088. PICKER STICK. JOHN A. HINRICHS, Paterson, N. J. Filed Feb. 25, 1927. Serial No. 170 972. 2 Claims. (Cl. 139—157.)



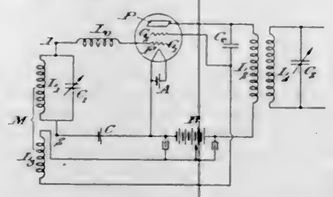
1. A picker-stick structure including a stick proper and means to resist bending of the stick proper as an incident of its impelling the shuttle including an elastic normally tensioned reinforcing strip secured to and extending lengthwise of the stick-proper and tending to flex the stick-proper so that the resulting flexion will be outwardly convex.

1,677,089. GOGGLES. SAMUEL HENRY HOPEWELL, Ensley, Ala. Filed Apr. 28, 1927. Serial No. 187,298. 2 Claims. (Cl. 2—14.)



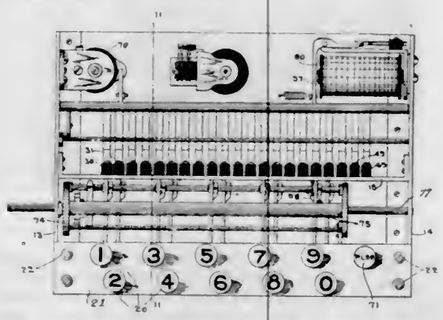
1. A pair of protective spectacles of the character described comprising similar shaped body portions, including rims, a partition disposed in each rim and being provided with a centrally disposed sight opening, means for securing the inner sides of said rims together in spectacle formation, chambers formed on the outer sides of said rims and communicating therewith, a clear lens secured in each of said rims and colored lens adapted to be cooperatively associated with said clear lens in a manner to be disposed in registration therewith and the sight openings respectively and capable of being disposed out of said registration and into the chambers.

1,677,090. VACUUM-TUBE CIRCUITS. LEWIS M. HULL, Boonton, N. J., assignor to Radio Frequency Laboratories, Incorporated, Boston, Mass., a Corporation of New Jersey. Filed Jan. 17, 1927. Serial No. 161,664. 7 Claims. (Cl. 179—171.)



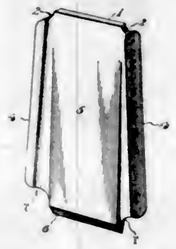
1. An electrical amplifier including a vacuum tube, an input circuit, an output circuit, elements producing capacitive coupling between said circuits, a circuit for compensating said capacitive coupling including in series a compensating coil coupled to one of said circuits and a compensating condenser connected to the other of said circuits, and an inductance connected to a control element of said vacuum tube in such a manner that retroactive currents flowing through said capacitive coupling must also flow through said inductance in series therewith.

1,677,091. IMPULSE-TRANSMITTING DEVICE. JOHN H. HOMRIGHOUS, Oak Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Sept. 13, 1918, Serial No. 253,860. Renewed Feb. 24, 1925. 39 Claims. (Cl. 179—90.)



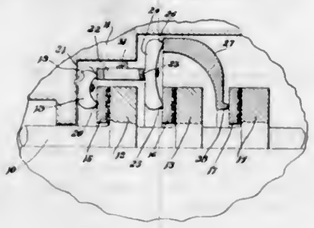
1. In a telephone system, a line, a device for transmitting impulses over said line consisting of a switch with a wiper having rotary motion, a set of keys, means controlled by any of said keys for starting the rotation of said switch to move said wiper and for predetermining the extent of movement thereof irrespective of an immediate subsequent operation of any other of the keys, and means controlled in the movement of said wiper for transmitting impulses.

1,677,092. CLAMP NAIL. CARL C. JENSEN, Chicago, Ill., assignor to Clamp Nail Company, Chicago, Ill., a Corporation of Illinois. Original application filed Sept. 13, 1926, Serial No. 135,225. Divided and this application filed Feb. 9, 1927. Serial No. 167,012. 1 Claim. (Cl. 85—11.)



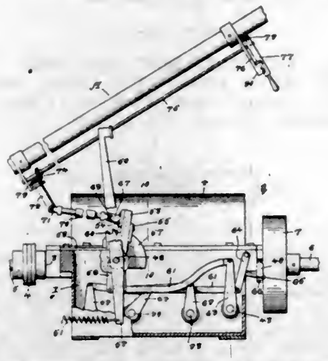
A clamp nail consisting of a flat web, a central transverse straight tongue at each end of the web, the tongue at the driving end of the web being blunt and the tongue at the driven end being beveled and the width of the tongues being less than the width of the web, and flanges along the side edges of the web projecting from both faces thereof and converging toward the driving end of the web, the flanges terminating short of the transverse edges of the tongues.

1,677,093. EQUALIZING MEANS FOR MULTIPLE-COLLAR BEARINGS. JOSIAH F. JOHNSON, Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 16, 1921. Serial No. 501,044. 4 Claims. (Cl. 308—160.)



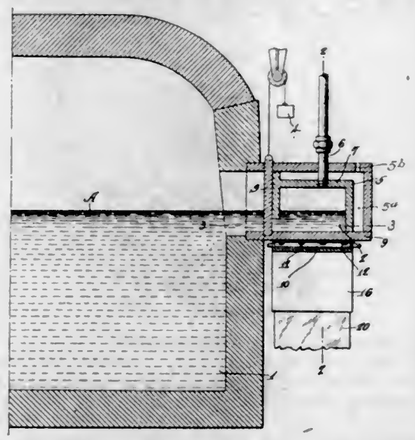
1. In a thrust bearing, the combination of a movable member; a stationary member; a plurality of spaced thrust collars on the movable member; a plurality of bearing shoes arranged about and operatively engaging each of the collars; and a plurality of thrust transmitting and equalizing mechanisms distributed abont the movable member for equalizing the thrust between the bearing shoes of one of said collars and the bearing shoes of another of said collars; each of said mechanisms operating independently of the others and comprising a lever member pivotally engaging a bearing shoe on one of said collars, a fulcrum support for said lever member carried by the stationary member, a second lever member pivotally engaging at one of its ends a bearing shoe on a second collar, seating means for the other end of the second lever, and a compression strut member interposed between the first lever member and the second lever member.

1,677,094. TRANSMISSION MEANS. HUGH J. JONES, Denver, Colo., assignor of one-half to The Western Battery & Supply Company, Denver, Colo., a Corporation of Colorado and ten per cent to George A. Bible, Rawlins, Wyo., and P. M. Bible, Denver, Colo. Filed Mar. 13, 1926. Serial No. 94,541. 8 Claims. (Cl. 74—34.)



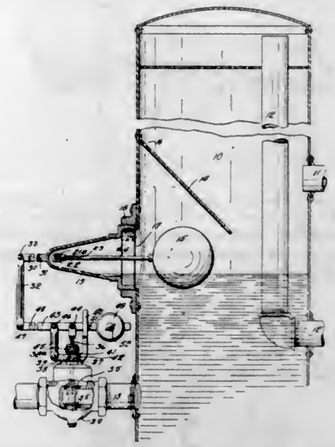
1. In combination with transmission means including rock shafts, a spring controlled pedal actuated member, rocker arms associated with said member and connected with the rock shafts, a finger rotatably mounted on the pedal member, a hand lever and flexible means for connecting the hand lever with the finger to move the finger into engagement with any desired rocker arm.

1,677,095. METHOD AND APPARATUS FOR MANUFACTURING FIRE-POLISHED SHEET GLASS. CHARLES J. JORDAN, Woodbury, N. J., assignor of one-fourth to Rudolph G. Schaub, Woodbury, N. J. Filed Nov. 11, 1925. Serial No. 68,370. 6 Claims. (Cl. 49—32.)



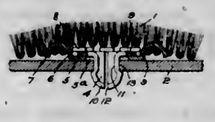
1. An apparatus for forming fire polished wire reinforced sheet glass consisting in a pot provided with a pair of spaced slots, and being in communication with a furnace, said pot provided with a third slot equi-distant of said first named slots, means for regulating the active width of said first named slots, guides extending diagonally from the first named slots and converging at a point remote from the pot and in alignment with said third slot, and air domes in said pot over said first named slots to apply air pressure to molten glass in the pot and means for controlling the communication between the pot and the furnace.

1,677,096. LIQUID-CONTROLLING DEVICE. LYLE W. BROWNE, Marshalltown, Iowa, assignor to The Fisher Governor Company, Marshalltown, Iowa. Filed Dec. 8, 1924. Serial No. 754,650. 2 Claims. (Cl. 137—101.)



1. In combination with a tank having an opening therein, a device of the class described, comprising a flange secured to said tank and surrounding said opening, a tapered hollow support closed at its small and open at its larger end, said larger end being screw threadedly mounted in said flange, a shaft mounted in the wall of said support at its small end, a float, a float arm connecting the shaft with the float, a lever mounted on said shaft for longitudinal adjustment, a link pivoted to said lever, a valve structure having a casing and a stem projecting therefrom, a collar mounted externally on said casing by means of a set screw for rotary adjustment having an arm and opposite guide arms, a second lever detachably pivoted to said stem, a link pivoted to said collar arm and detachably pivoted to said second lever and a link detachably pivoted to said two levers.

1,677,097. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Aug. 25, 1925. Serial No. 52,316. 8 Claims. (Cl. 16—4.)

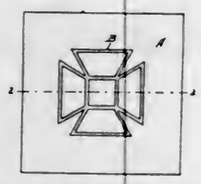


1. A carpet fastener installation comprising, in combination; a carpet, a casing secured to said carpet and a stud member assembled with and projecting from said casing, said stud shiftable in any transverse direction relative to said casing for alignment with a cooperating socket.

1,677,098. PROCESS OF MAKING TILE. THEODORE C. PROUTY and WILLIS O. PROUTY, Hermosa Beach, Calif., assignors, by mesne assignments, to American Encaustic Tiling Company, Ltd., Los Angeles, Calif., a Corporation of New York. Filed Mar. 7, 1925. Serial No. 13,887. 1 Claim. (Cl. 25—156.)

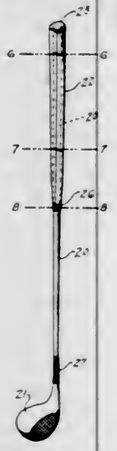
The process of making an integral multiple tile body having the appearance of an assemblage of a plurality of tiles, which comprises the operations of molding under pressure a dry bisque mixture by means of dies of the

form of the desired multiple tile body and one of said dies having thereon a relief design outlining the forms of a plurality of separate tiles and adapted to form grooves in the face of the multiple tile body, firing the multiple



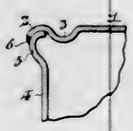
tile body so formed to produce the bisque, applying glaze mixture to the areas of said bisque between and defined by said grooves, again firing said tile body bearing the glaze mixture so applied, and subsequently filling said grooves with cement.

1,677,099. GOLF CLUB. WILLIAM E. HARNESS, Bloomington, Ill. Filed Sept. 24, 1927. Serial No. 221,769. 2 Claims. (Cl. 273—81.)



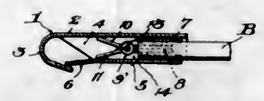
1. A golf club having a longitudinally tapered shaft, a head attached to one end of said shaft, and a handle fitting over the other end of said shaft, said handle being of substantially semi-elliptical cross-sectional area throughout its entire length and having a tapering bore formed in it, said bore being closed at the top.

1,677,100. METALLIC CONTAINER. JAMES A. JENSEN, Philadelphia, Pa., assignor to Quaker City Iron Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 2, 1924. Serial No. 723,663. 2 Claims. (Cl. 220—67.)



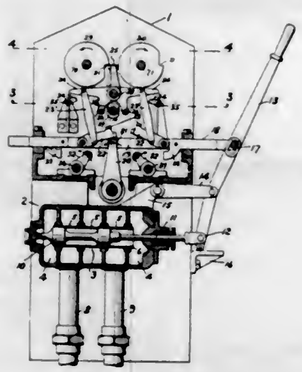
1. A container of sheet steel comprising a cylindrical body portion having an internal corrugation merging into a substantially semi-circular cross-section terminal bead at each end thereof, similar material flat closure heads therefor having outset peripheral beads of half-round cross-section seating on the corrugations and overlapped by the terminal beads aforesaid, said overlapped portions forming a double thickness corner-edge whereby the container is rigidly braced against deformation with the heads securely prevented from inward or outward displacement, and said terminal and peripheral beads being joined by edge welding on the exterior surface for fluid tightness at the overlapped junctures.

1,677,101. WATCH-BRACELET END HOOK. FREDERICK W. NITTEL, Attleboro Falls, Mass., assignor to M S Co., Attleboro, Mass. Filed Feb. 11, 1928. Serial No. 253,640. 5 Claims. (Cl. 24—233.)



1. In a watch bracelet end hook, a hook member having spaced sides, a latch member having a hollow shank received between said sides of the hook member and having a tongue engageable with the hook of the hook member, a connecting member having a pair of spaced knuckles, a bracelet having a hollow end receiving the connecting member therein and secured thereto, a substantially V-shaped spring in the hollow shank having a loop at its base received in the space between the knuckles and having its ends engaged with the back of the hook member and with the tongue to tension the latter, and a pin slidably extending through the sides of the hook member, through the shank of the latch member, through the knuckles of the connecting member and through the loop of the spring to connect all of the parts and to provide a pivot for the latch member.

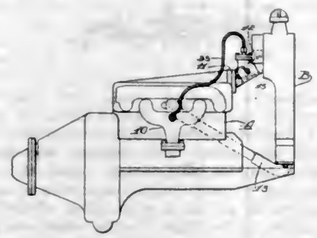
1,677,102. AUTOMATIC CONTROL FOR WATER-GAS SETS. JOHN HAWLEY TAUSSIG, Philadelphia, Pa., assignor to The U. G. I. Contracting Company, Philadelphia, Pa., a Corporation of Delaware. Filed Sept. 19, 1924. Serial No. 738,570. 7 Claims. (Cl. 137—144.)



1. Automatic control for water gas sets including rocker arms, reciprocatable bars, master valves operatably connected with the bars, pivotal cam followers, confronting pivotal pawls carried by the bars and connected with the followers, throw-out cams for the followers, pivotal dogs for positioning the bars, and means common to the throw-out cams and dogs and adapted to position the bars.

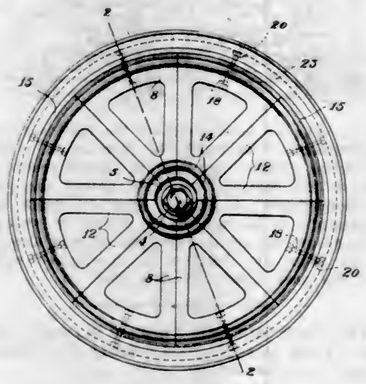
6. In automatic control for the valves of water gas sets a rocker arm, a bar slotted for the accommodation of the rocker arm, pawls pivoted in the slot and having heads for engagement with the top of the bar, and cam mechanism for positioning the pawls.

1,677,103. INTERNAL-COMBUSTION-ENGINE-TEMPERATURE CONTROL. PERCIVAL S. TICE, Chicago, Ill. Filed Jan. 5, 1927. Serial No. 159,065. 6 Claims. (Cl. 123—178.)



1. In combination with an internal combustion engine having a circulatory cooling system comprising a water jacket and a radiator in circulatory relation thereto, valve means for controlling the rate of circulation between the engine jacket and the radiator, means connected for being affected by and responsive to the engine intake manifold pressure with operating connections from said pressure responsive means to said valve means arranged for moving the valve to augment the water circulation through the radiator upon predetermined rise of intake manifold pressure, and to diminish the water circulation through the radiator upon reduction of said pressure.

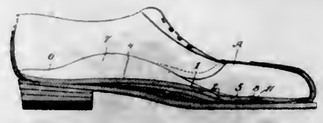
1,677,104. WHEEL STRUCTURE. RUSSELL J. REANEY, Ottawa, Ontario, Canada, assignor to Reaney Limited, Ottawa, Canada. Filed Jan. 7, 1926. Serial No. 79,821. 6 Claims. (Cl. 301—64.)



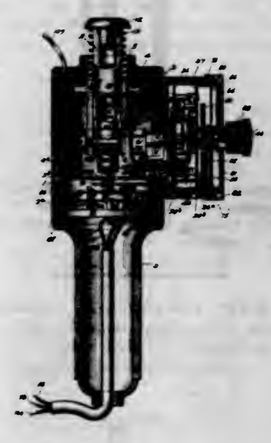
5. A wheel structure comprising a hub, a plurality of complemental skeleton sectors arranged thereabout, a felloe shrunk on the outer periphery of said sectors, said felloe having an annular groove on its inner periphery, formed by a pair of inwardly directed ribs, adapted to receive the outer periphery of said sectors and radially disposed bolts extending through registering perforations in said felloe and said sectors for securely fastening said felloe thereon.

1,677,105. SHOE INNER SOLE. BENJAMIN JOSEPH SILVER, Gloversville, N. Y. Filed Nov. 25, 1924. Serial No. 752,135. 1 Claim. (Cl. 36—71.)

A shoe for preventing or correcting foot abnormalities comprising a permanent integral insole having an upper surface conforming to the sole of a low average normal foot and of such material and construction as to be wholly rigid from the heel to the ball line and maintain itself in its original shape, a member extending under the longitudinal and metatarsal arches and contacting throughout with the upper surface of the insole for increasing the elevation of those parts to prevent or correct abnormalities of the foot, and means to removably secure the member to the insole at its desired position.



1,677,106. TIME SWITCH. JOHN G. H. LIEBEL and EDWIN S. FLARSHEIM, Cincinnati, Ohio. Filed Oct. 10, 1921. Serial No. 506,612. 3 Claims. (Cl. 200—39.)

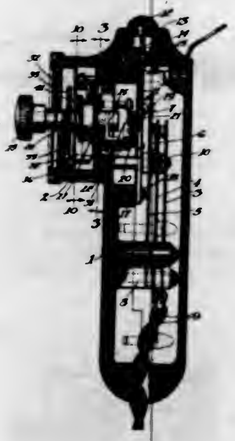


1. In an electric circuit controlling time switch, a self-opening electric circuit controlling switch, a sectional plunger, the sections cooperating unitarily for manually closing said switch and one section thereof releasable from the second for automatically opening said switch at the end of a timing period, clock mechanism for a timing switch control including a clock spring, gearing and ratchet means, the ratchet means connecting said spring and gearing, means connecting with said spring and rotated thereby adapted to engage said releasable plunger section for effecting the switch opening at the end of a timing period, and means for tripping said ratchet mechanism at the end of a timing period disconnecting the spring and clock gearing for effecting a spring release and utilizing its full recoil power for forcibly moving said plunger section for a switch opening while the second of said plunger sections is held depressed.

1,677,107. TIME SWITCH. EDWIN S. FLARSHEIM, Cincinnati, Ohio, assignor of one-half to John G. H. Liebel, Cincinnati, Ohio. Filed Mar. 23, 1925. Serial No. 17,484. 4 Claims. (Cl. 200—39.)

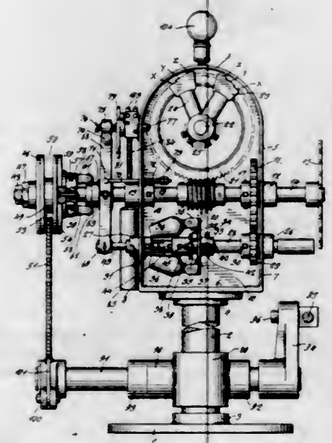
1. In an electric time switch, in combination with the contacts, a clock mechanism, a clock-releasing and a clock-stopping mechanism, a one-piece, spring-normalized plunger positioned between said actuator and said clock mechanism, supporting means for said plunger enabling a manual reciprocal movement to operate the contacts and to operate the clock-releasing mechanism, said means permitting a relatively lateral movement of the plunger, a member on one face of the plunger to

longitudinally engage and disengage the contacts and to laterally disengage said actuator, a member to be tripped on the opposite face of the plunger, a clock-



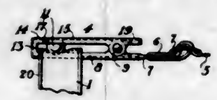
operated tripping member adapted to be set for a timed operated engagement with said member to be tripped, and means for limiting the clock operated movement of said tripping member.

1,677,108. HOIST CONTROLLER. ALFRED E. JOHNSON, Denver, Colo. Filed Oct. 17, 1927. Serial No. 226,774. 8 Claims. (Cl. 192—140.)



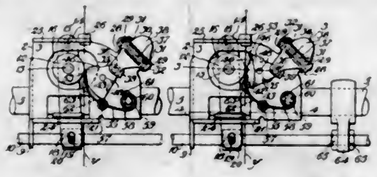
1. A controller, for use with hoists, comprising, in combination, a governor adapted to be operatively connected to the hoist so as to rotate at a speed corresponding to the speed of the hoist, and means for applying brakes to the hoist when the speed exceeds a predetermined value, said means comprising a shaft, means for rotating the shaft whenever the governor moves, a member rotatably mounted on the shaft, a clutch mechanism associated with the shaft and member and means controlled by the governor for operating the clutch.

1,677,109. ADJUSTABLE SHOULDER-STRAP STAY. ISAAC KORPER, New York, N. Y. Filed Jan. 16, 1926. Serial No. 81,641. 2 Claims. (Cl. 24—253.)



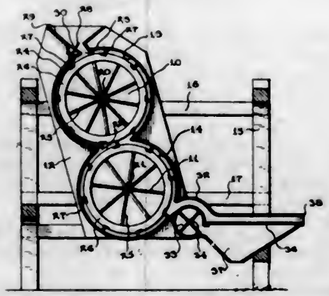
1. An adjustable shoulder strap stay comprising a pair of elongated horizontally spaced clasps in combination with a tension member adapted to connect the inner ends of said clasps and adapted together with said clasps to function horizontally across the back of the wearer, each of said clasps comprising a base portion adapted to lie flat against the back of the wearer, a hook formation at the outer end of said base portion, a spring pressed gripper portion overlying said base portion and being substantially parallel therewith and closely spaced therefrom and being hinged and proportioned together with the other parts to provide a free cross-runway for a shoulder strap, a smooth rounded formation on the inside outer end of said gripper and being substantially non-abrasive to grip the shoulder strap sufficiently to prevent said clasp from sliding down on the shoulder strap, and also functioning to hold said shoulder strap flat within said runway, said hook formation itself functioning solely with its inner face to prevent the spreading of said shoulder straps.

1,677,110. SLUG OR BUNCH CATCHER. THOMAS J. SANDS, Auburn, R. I. Filed Mar. 6, 1924. Serial No. 697,311. 11 Claims. (Cl. 28—64.)



1. In a slug or bunch-catcher, the combination of a bearing-element across which the yarn draws, a movable slug-detecting element arranged in spaced relation with respect to the bearing-element to permit the yarn to draw therebetween, a pivoted lever on which one of said elements is mounted, and means to swing said lever to adjust the relative position of said elements to vary the space therebetween in accordance with the size of the yarn being operated upon.

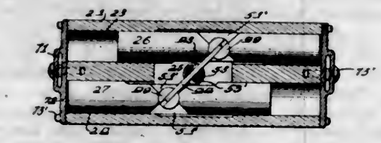
1,677,111. OAT HULLER. ROBERT STANLEY, De Witt, Iowa. Filed May 22, 1926. Serial No. 110,937. 5 Claims. (Cl. 83—36.)



1. An oat huller comprising substantially tangentially arranged crushing and separating cylinders, chambers in which said cylinders are mounted, the chambers be-

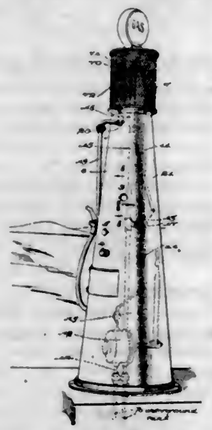
ing in communication at the point of tangency of the cylinders, and means for rotating the cylinders in relative reverse directions at the point of tangency, both cylinders having co-acting members moving in reverse directions at the point of communication between the chambers, those of the crushing cylinder casting the moving grain against those of the separating cylinder and intensifying the separating action as it passes from the chamber of the one to the chamber of the other.

1,677,112. RUBBING MACHINE. SWAN F. ANDERSON, Rockford, Ill., assignor, by mesne assignments, to C. Paul Parker, trustee, Chicago, Ill. Original application filed Sept. 4, 1917, Serial No. 189,563, Patent No. 1,492,659, dated May 6, 1924. Divided and this application filed Aug. 4, 1920. Serial No. 401,232. 22 Claims. (Cl. 121—114.)



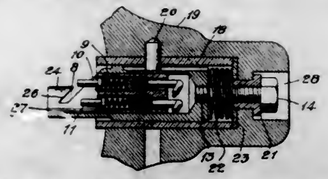
17. In a machine of the character disclosed, in combination, a pair of laterally spaced cylinders, a double end piston reciprocable in each cylinder, a member pivotal about an axis intermediate the ends of and between said pistons and having a diametrically disposed guide, said guide having a sliding and rotary connection with each piston, an oscillatory valve coaxial with said member and actuated by movement thereof, and passages between said valve and said cylinders whereby said valve controls the delivery of fluid under pressure to said cylinders for reciprocating the pistons in opposite directions.

1,677,113. LIQUID-VENDING APPARATUS. NEPHI W. CLAYTON, Salt Lake City, Utah. Filed Aug. 17, 1926. Serial No. 129,798. 21 Claims. (Cl. 194—60.)



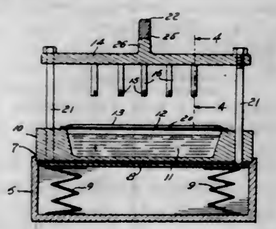
1. Liquid vending apparatus comprising a container, a pump having a pipe for delivering liquid to the container, a container discharge pipe, connected inlet and discharge valves in the respective pipes, a liquid return pipe extending into the container and having connection with the delivering pipe at the inlet valve, and means for turning the inlet valve to positions of communication of the pump with the container or of the pump with said return pipe and correspondingly turning said discharge valve to positions of non-discharge or discharge in reference to the container.

1,677,114. LIGHT SOCKET. OSCAR S. FIELD, Roselle, N. J., assignor, by mesne assignments, to Union Switch & Signal Co., Swissvale, Pa., a Corporation of Pennsylvania. Filed Apr. 6, 1921. Serial No. 459,199. 2 Claims. (Cl. 173—328.)



1. In a light socket for co-operation with an electric bulb having a bayonet base, a socket member open at one side and having oblique slots formed therein to receive the pins of the lamp base, and a spring pressed contact stud insulatively mounted therein, whereby upon pressure being exerted by the contact stud the base of the bulb is forced forwardly and transversely into intimate contact with the wall of the socket member to align the bulb in two planes.

1,677,115. CUTTER FOR ICE CREAM AND SIMILAR PRODUCTS. REUBEN H. ARROWOOD, Los Angeles, Calif., assignor of one-half to Millard M. Mier, Los Angeles, Calif. Filed Feb. 23, 1926. Serial No. 90,177. 2 Claims. (Cl. 107—21.)



1. A device of the character described comprising; a base containing a reservoir with water therein; a perforate plate positioned upon the base above the reservoir adapted to allow the cutting elements to pass therethrough with small clearance into the water; a depressible cutting head guided by the base and carrying cutting elements depending therefrom; and springs adapted to yieldingly resist depression of the cutting head; said cutting elements being adjustably positioned upon the cutting head.

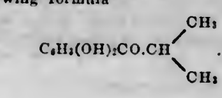
1,677,116. NORMAL AMYLYL RESORCINOL. ALFRED R. L. DOHME, Baltimore, Md., assignor to Sharp & Dohme, Inc., Baltimore, Md., a Corporation of New Jersey. Filed Apr. 29, 1925. Serial No. 26,811. 2 Claims. (Cl. 260—131.)

1. A new product comprising normal amylyl resorcinol having the formula

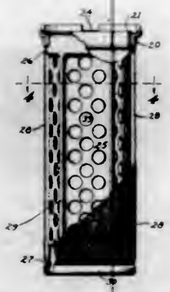
$$C_6H_3(OH)_2.CO.CH_2.CH_2.CH_2.CH_3.$$

1,677,117. ISO-BUTYRYL RESORCINOL. ALFRED R. L. DOHME, Baltimore, Md., assignor to Sharp & Dohme, Inc., Baltimore, Md., a Corporation of New Jersey. Filed Apr. 29, 1925. Serial No. 26,812. 2 Claims. (Cl. 260—131.)

1. A new product comprising iso-butyryl resorcinol having the following formula

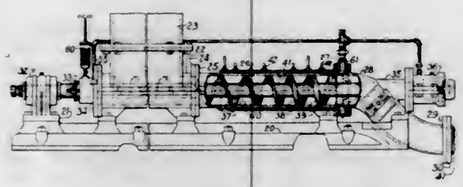


1,677,118. FUEL-FILTERING SCREEN. HENRY FORD, Dearborn, Mich. Filed Feb. 14, 1927. Serial No. 167,911. 2 Claims. (Cl. 210—154.)



1. In a device of the character described, a ring member adapted to be detachably mounted in a filler neck of a tank, a cylindrical guard member having portions thereof beaded outwardly and having a plurality of openings therethrough, means for securing the upper end of said guard member rigidly to said ring member, a cylindrical screen member surrounding said guard member and having its upper end secured to said ring, and a cup member receiving the lower end of the screen and the guard and adapted to form an enclosure therefor and to secure the guard and screen member together.

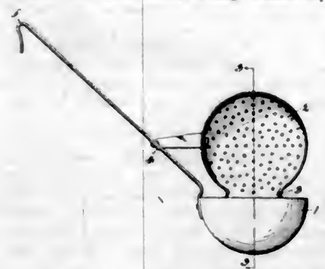
1,677,119. APPARATUS FOR CONVEYING PULVERIZED MATERIAL. ALONZO G. KINYON, Allentown, Pa., assignor, by mesne assignments, to James W. Fuller, Catasauqua, Pa. Filed July 25, 1925. Serial No. 45,966. 17 Claims. (Cl. 302—47.)



1. Apparatus for conveying pulverulent material comprising a casing, means for admitting material to be conveyed into the casing, a shaft supported for rotation within the casing, means on the shaft for advancing the material through the casing, means for admitting air under pressure into the casing beyond said advancing means to increase the mobility of the material, a bearing for the end of the shaft toward which the material is moved by said advancing means, and means independent of the bearing for supplying air under pressure to flow along the shaft into the casing, the air creating a counterflow preventing material being conveyed from being forced into said bearing.

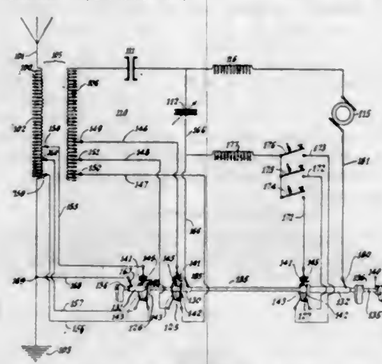
1,677,120. COMBINATION LADLE AND STRAINER. JOSEPH RUBIN, Brooklyn, N. Y. Filed June 21, 1926. Serial No. 117,540. 1 Claim. (Cl. 65—28.)

A combined ladle and strainer comprising an imperforate ladle bowl of substantially hollow semi-spherical form, a perforate strainer bowl of corresponding form, a neck connecting the bowls at relatively adjacent sides and in laterally offset, relatively spaced position with their open sides in planes substantially at right angles to each other, the said neck being concavely curved



from side to side and convexly curved in a direction between the bowls, and a handle extending from the ladl bowl.

1,677,121. SYSTEM FOR TRANSMITTING ENERGY. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Original application filed Oct. 31, 1917, Serial No. 199,482, Patent No. 1,530,666. Divided and this application filed Jan. 12, 1925. Serial No. 1,744. 10 Claims. (Cl. 250—9.)



1. In a system for transmitting energy, the combination with an alternating current generator including a closed, oscillatory circuit for determining the frequency of the energy produced by the generator and means for energizing the closed, oscillatory circuit, of means for changing the tuning of said circuit in rotational sequence to different frequencies, and devices located outside of said oscillatory circuit and operable manually to modify the energization of said circuit in accordance with a plurality of different messages equal in number to the number of said different frequencies.

1,677,122. TOY AND ADVERTISING NOVELTY. NORMAN E. JOHNSON, Chicago, Ill., assignor to Spencer Thermostat Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Mar. 12, 1923. Serial No. 624,428. 4 Claims. (Cl. 46—40.)



1. A toy comprising a concave disk of two layers of superimposed metal having different coefficients of expansion, and provided with a figure mounted upon the normally convex side of said disk, whereby when the disk is flexed in the direction opposite to the concavity and placed on a surface of a temperature different than its own, the disk will flex to its normal position and jump upwardly from said supporting surface.

Patents Nos. 1,677,123 to 1,677,879.

THE
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CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

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Issue of July 17, 1928.

Trade-Marks	341—No. 244,164 to No.	244,504, inclusive.
Labels	52—No. 34,292 to No.	34,343, inclusive.
Prints	55—No. 11,056 to No.	11,110, inclusive.
Reissues	12—No. 17,033 to No.	17,044, inclusive.
Designs	57—No. 75,761 to No.	75,817, inclusive.
Patents	757—No. 1,677,123 to No.	1,677,879, inclusive.
Total	1,274	

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,443,681, A. H. Goodwin, Wooden shipping case, decided June 8, 1928, claims 7, 8, and 9.

Pat. 1,557,033, M. B. Kerr, Automatic telephone-exchange system, decided June 5, 1928, claims 8, 9, and 10.

Pat. 1,608,149, C. A. Warden, Coal-mining machine, decided June 8, 1928, claim 6.

Pat. 1,611,677, R. Raines, Storage-battery indicator, decided June 4, 1928, claim 7.

Pat. 1,654,260, R. C. Jones, Deaerator, decided June 8, 1928, claim 1.

Final decisions in interference have been rendered against the following trade-marks:

T. M. 137,945. Wheat flour, The Bennett Milling Co., Grafton, Ohio. Registered December 14, 1920. Decided June 8, 1928.

T. M. 189,456, Leather gloves, John Wanamaker Philadelphia, Philadelphia, Pa. Registered September 16, 1924. Decided June 8, 1928.

T. M. 197,210, Dried fruits, California Prune & Apricot Growers Assn., San Jose, Calif. Registered April 14, 1925. Decided June 21, 1928.

T. M. 219,531, Variously-flavored extracts sold solely for the making of nonalcoholic beverages for the home. Registered October 19, 1926. Decided June 25, 1928.

Adjudicated Patents.

(C. C. A. N. J.) Fagan patent, No. 1,128,120, for electric-light-bulb filament-support wire-inserting machine, *Held* not infringed. *Eisler v. General Electric Co.*, 26 F. (2d) 12.

(C. C. A. N. J.) Fagan and Frech patent, No. 1,220,836, claims 1–5, for electric-light-bulb filament-support wire-inserting machine, *Held* invalid. *Id.*

(C. C. A. Okla.) Shaffer patent, No. 1,486,162, for gauge cocks for testing height of water and pressure of steam in boilers, *Held* not infringed. *J. E. Shaffer Co. v. Smith Separator Co.*, 26 F. (2d) 66.

Notices of Cancellation.

U. S. PATENT OFFICE, *Washington, June 23, 1928.*

The Apex Coal Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of The Masteller Coal Company, of Keyser, W. Va., to effect the cancellation of the trade-mark registration of The Apex Coal Company, of Fort Smith, Ark., No. 160,128, dated October 17, 1922, and the notice of such proceeding sent by registered mail to the said The Apex Coal Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said The Apex Coal Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, June 23, 1928.*

Alma Wooster, H. W. Patrick, and A. G. Palmer, their assigns or legal representatives, take notice:

An application was filed in this Office by Lysol, Incorporated, of Bloomfield, N. J., for cancellation of trade-mark Registration No. 35,104, issued September 18, 1900, to Caroline W. Patrick, of 22 East Main Street, Norwalk, Ohio. The assignment records of this Office show a transfer of title of this registration to Alma Wooster, H. W. Patrick, and A. G. Palmer. Since the Office has been unable to obtain the post-office address of Alma Wooster, H. W. Patrick, and A. G. Palmer, the proceeding can not be instituted. Therefore notice is hereby given that unless said Alma Wooster, H. W. Patrick, and A. G. Palmer, their assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business July 6, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 107,858; Trade-Mark Division, 1,802. Oldest new case, Sept. 8, 1927; oldest amended, Sept. 29, 1927. The dates given are 1927 except where † indicates 1928.)

Room No.	Divisions, Examiners, and Subjects of Inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators, Fences, Gates; Tillage; Scattering Unloaders	Oct. 24	Dec. 3	1,538
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses, Tobacco	Dec. 29	Dec. 29	1,588
331	3. LINDSEY, A., Electric Heating; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Nov. 2	Dec. 6	2,016
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus and Implements, and Pushing and Pulling.	Oct. 1	Oct. 1	2,271
108*	5. MACNAB, J. F., Harvesters; Jewelry; Music; Acoustics; Sound Recording; Knotters	Oct. 4	Oct. 20	1,649
318	6. LEWERS, A. M., Chemistry; Chemistry—Carbon Compounds	Nov. 8	Dec. 1	2,741
106	7. JARBOE, C. G., Amusement and Exercising Devices; Toys; Optics; Photography	Oct. 18	Oct. 20	2,471
133	8. HENRY, C. C., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Supports, Racks; Supports, Cabinet Structures.	Nov. 14	Nov. 14	2,551
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	†Feb. 3	†Feb. 1	1,550
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Oct. 27	Nov. 18	1,876
145*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather Manufactures; Nailing and Stapling; Whip Apparatus; Cutting and Punching Sheets and Bars.	†Jan. 3	†Jan. 4	1,542
380	12. PIERCE, P. P., Machine Elements	Sept. 16	Oct. 28	2,163
154*	13. CLIFT, J. W., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear-Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Nov. 28	Dec. 1	1,857
102*	14. BRUMBAUGH, N. J., Compound Tools; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Oct. 8	Oct. 5	1,759
329	15. REDROW, W. L., Glass; Plastic Block and Earthenware Apparatus; Plastics	Nov. 14	Nov. 30	2,293
242*	16. SPENCER, C. J., Batteries; Resistances and Rheostats; Telegraphy; Telephony	†Jan. 6	†Jan. 5	1,411
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Nov. 23	Dec. 3	1,355
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Dec. 2	Dec. 2	1,582
246	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Dec. 7	Dec. 3	1,712
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	†Jan. 26	†Jan. 23	1,462
212	21. THURBER, W. L., Winding and Reeling; Textiles; Cloth Finishing	Sept. 10	Dec. 3	1,576
244*	22. COLWELL, J. H., Aeronautics; Amusement Devices, Games; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Oct. 14	Nov. 25	1,932
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers; Horology; Time-Controlling Mechanism.	Oct. 6	Oct. 4	1,565
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Oct. 1	Oct. 5	1,568
314	25. LIGHTFOOT, J. H., Agitating; Bleaching and Dyeing; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Mills; Sugar and Starch; Threshing; Vegetable and Meat Cutters and Comminutors.	Nov. 10	Nov. 25	2,556
228*	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Oct. 26	Oct. 20	1,278
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Dec. 13	†Jan. 16	1,344
225	28. BENSON, A. R., Internal-Combustion Engines	Oct. 20	Oct. 31	2,069
160*	29. MORRIS, B. N., Abrading; Button Making; Coopering, Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Sept. 26	Oct. 17	1,883
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Typewriting Machines; Thermostats and Humidostats.	Nov. 5	†Jan. 3	1,702
312	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke, Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue.	Dec. 2	Dec. 1	2,842
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Oct. 24	Oct. 17	2,258
152	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	†Jan. 28	†Jan. 28	2,158
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Sept. 26	Sept. 29	1,510
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	†Jan. 24	†Jan. 25	1,627
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	†Jan. 13	Dec. 31	1,850
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Oct. 28	Dec. 12	2,079
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Dec. 9	Dec. 9	1,872
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Sept. 8	Sept. 29	1,710
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Package and Article Carriers; Receptacles	Sept. 28	Dec. 1	2,779
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes	†Jan. 30	†Feb. 2	1,142
223*	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling	Nov. 4	Nov. 15	2,077
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members; Railway Draft Appliances.	Dec. 5	†Jan. 3	2,251
253	44. SHAFFER, C. H., Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Refrigeration.	Oct. 13	Nov. 5	2,147
376	45. GILES, A. H., Pulleys and Shafting; Lubrication; Machine Elements; Bearings and Guides	†Jan. 5	†Jan. 3	1,614
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Oct. 7	Oct. 12	1,857
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Motors; Spring Devices.	Oct. 27	Oct. 27	2,780
213*	48. ROEPKE, O. B., Electricity, General Applications	Dec. 8	Dec. 8	1,452
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Ventilation; Velocipedes; Driers; Liquid Separation or Purification.	Oct. 25	Dec. 19	1,617
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Nov. 25	Dec. 1	2,509
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Nov. 17	Nov. 14	2,230
144	52. MORGAN, E. T., Supports; Chucks; Fire Escapes; Ladders; Scaffolds; Railway Mail Delivery; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Dec. 14	Dec. 8	2,278
143*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Nov. 7	Nov. 8	1,770
241	54. LANE, C. H., Electric Lamps, Conductors; Vapor Electric Devices; Space Discharge Tubes	Nov. 17	Nov. 16	2,314
102	55. RICHARD, V. I. { Bread, Pastry, and Confection Making; Cutlery	Oct. 25	Nov. 1	958
	{ Designs	†May 9	†May 15	861
309	56. PORTER, F. J. (Acting), Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation.	Oct. 3	Oct. 3	2,556
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND { Trade-Marks	†June 6	†June 27	1,710
	{ Labels and Prints	†June 23	†June 29	92

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Supreme Court of the United States.

HOLLAND FURNITURE COMPANY *v.* PERKINS GLUE COMPANY.

Decided May 12, 1928.

1. PATENTS—PROCESS AND PRODUCT.

Product patents or patents of compositions of matter are distinct from patents of the process by which the product may be produced. The former, if sufficiently described, may exist and be sustained independently of the latter. Hence any narrowing of process claims is not necessarily a narrowing of product claims.

2. SAME—COMPOSITION OF MATTER—DESCRIPTION IN SPECIFICATION.

"It was necessary that the Perkins patent, so far as it is a patent of a composition of matter, should contain some description of the ingredients entering into the composition which would both define the invention and carry it beyond the previous development of the art."

3. SAME—PROCESS AND PRODUCT—EACH MAY BE PATENTABLE.

"A patentable process is a method of treatment of certain materials to produce a particular result or product. *Cochrane* v. *Deener*, 94 U. S. 780. The description of one does not necessarily embrace the other. Either or both may be patentable."

4. SAME—PRODUCT—DESCRIPTION BY PROCESS OF PRODUCING.

"There can be no description of a composition of matter without some designation of its ingredients. If the selection or choice or designation of an essential ingredient of a composition of matter may be referred to, inaccurately as we think, as a process, the 'process' is one inseparable from the composition itself. The description of one necessarily limits the other. Hence the patent of the product cannot extend beyond a product having the designated ingredient."

5. SAME—PRODUCT—DEFINED BY FUNCTION—LIMITATION OF CLAIMS.

"But an inventor may not describe a particular starch glue which will perform the function of animal glue and then claim all starch glues which have those functions, or even all starch glues made with three parts of water and alkali, since starch glues may be made with three parts of water and alkali that do not have those properties."

6. SAME—FUNCTIONAL CLAIMS.

"That the patentee may not by claiming a patent on the result or function of a machine extend his patent to devices or mechanisms not described in the patent is well understood."

7. SAME—PRODUCT—DESCRIBED BY FUNCTION.

"The attempt to broaden product claims by describing the product exclusively in terms of its use or function is subject to the same vice as is the attempt to describe a patentable device or machine in terms of its function. As a description of the invention it is insufficient and if allowed would extend the monopoly beyond the invention."

ON WRIT of certiorari to the United States Circuit Court of Appeals for the Sixth Circuit.

Mr. Charles E. Hughes and *Mr. William H. Davis* for Holland Furniture Company.

Mr. Gorham Crosby for Perkins Glue Company.

Mr. Justice STONE delivered the opinion of the Court.

Respondent brought this suit in the district court for western Michigan, to enjoin infringement of the Perkins reissued Patent No. 13,436. So much of the judgment for the defendant, petitioner here, as held the product claims of the patent not infringed by respondent's product, was reversed by the court of appeals for the sixth circuit. *Perkins Glue Co.* v. *Holland Furniture Co.*, 18 Fed. (2d) 387. The court of appeals for the seventh circuit, *Perkins Glue Co.* v. *Gould Manufacturing Co.*, 292 Fed. 596, and the court of appeals for the second circuit, *Perkins Glue Co.* v. *Standard Furniture Co.*, 287 Fed. 109, had previously held the patent not infringed by the same product.[1] This Court granted certiorari. 275 U. S. —.

The patent is entitled "A patent for starch glue and a method of making it." Perkins was the first to make successfully a starch glue suitable for wood veneering and similar uses. Glue made from animal substances, known as animal glue, has long been in common use as an adhesive and is especially adapted to use in wood veneering, in which thin sheets or layers of wood are fastened together by the use of an adhesive bonding material. The characteristic qualities of animal glue, making it peculiarly suitable for that use, are a low absorptiveness of water and a consequent high degree of fluidity, facilitating its application by mechanical means, high elasticity and great tensile strength. A high water content, characteristic of other adhesive preparations, delays drying, warps the wood and when dry leaves too little bonding material to secure the requisite strength. In practice animal glue is made suitably fluid for use in wood veneering by the addition of a critically small amount of water, three parts by weight to one of glue.

Long before Perkins's experiments, adhesive paste or mucilage made from starch was well known. The Gerard patent (1874, Belgian, No. 34,869) and the Dornemann patent (1893, French, No. 232,781) described a process of producing an adhesive or glue by dissolving starch in a solution of caustic alkali. The suitability of starch as a glue base in this and other processes depends upon its water absorptive quality which varies with the starch of different plants, and under varying conditions with the starch of the same plant. Because of their high water absorption, glues produced from starch, be-

[1] Other cases involving the patent in suit are *Perkins Glue Co.* v. *Solva Waterproof Glue Co.*, 283 Fed. 792; *Solva Waterproof Glue Co.* v. *Perkins Glue Co.*, 251 Fed. 64; *Perkins Glue Co.* v. *Hood*, 279 Fed. 454; *Perkins Glue Co.* v. *Holland Furniture Co.*, 279 Fed. 457; *Perkins Glue Co.* v. *Standard Furniture Co.*, 279 Fed. 458; *Perkins Glue Co.* v. *Gould Mfg. Co.*, 280 Fed. 728; *Perkins Glue Co.* v. *Crandall Panel Co.*, 294 Fed. 135.

fore Perkins, were too viscous and hence required too large an admixture of water for use successfully as a wood veneering glue. The controlling difficulty to be overcome in the development of a starch glue suitable for veneering was what may be called the normally large water absorptive quality of starch, corresponding to the viscosity of the resultant glue, a reduction of the one effecting a reduction in the other.

It has long been known that the viscosity or the water absorptive quality of starches may be reduced by chemical treatment known as degeneration in which changes in the arrangement of the atoms in the starch molecules are effected by use of a catalytic agent. In 1906 Gerson & Sachse (German, No. 167,275) patented a process for the preparation of a starch base for glue manufacture by degenerating starch by the use of oxidizing agents in the presence of an alkali. But the resultant glue from this and other processes was not suitable for use in the wood-working trades. To make it sufficiently fluid for convenient use required too large an admixture of water, four parts or more to one of glue, so that the wood was warped and when dried the glue was not sufficiently tenacious to be used successfully as a substitute in that manufacture for animal glue.

The Perkins patent described a process for making glue from starch and a resultant product "as good as animal glue," "which will have the great practical advantage that it may be practically used for the same purposes as the best animal glue." The process consisted of two steps. The basic material was a suitable raw starch, preferably starch made from the cassava root, and the first step was concerned with its conversion or degeneration so as to make a "glue base" with lower water absorptivity than ordinary untreated starch. This was to be accomplished by combining the basic raw material with oxidizing agents and subjecting them to heat. The method was that described in the Gerson & Sachse patent and was not new. The characteristic feature of this first step as described by Perkins was not the manner of degeneration but its degree. The degeneration of the raw cassava starch was to be carried to a point just short of its conversion into dextrine, a soluble starch, which, because of that property is of little value in glue manufacture. The patent in its reissued form stated with precision the particular degree to which the water absorptive properties of the starch might be reduced in the preparation of a suitable glue base and described with particularity tests (the "9 to 1 boil up" test and the 170° test) for ascertaining when that stage of degeneration had been reached.

The second step in the process consisted in the treatment of the glue base, as prepared by the first step, by the addition of three parts or less of water by weight to one of the glue base and a specified percentage of cellulose solvent such as caustic potash. This process was described by the Gerard and Dornemann patents and was not new. The fundamental ideas of the process patent might be expressed in simple terms as follows: Glue made by dissolving ordinary starch in an alkaline solution of three parts of water (the quantity with which the wood-working industry is accustomed) is too thick. Glue made from over-degenerated starch is too weak. Between the extremes there is a range of degeneration within which the starch base, when dissolved in caustic potash, will produce glue of ample fluidity without loss of tensile strength or other qualities characteristic of animal glue.

The product claims, of which more will be said presently, was for the resultant glue, in substance for a starch glue having substantially the properties of animal glue.

The patent has 38 claims, divisible into groups. One group covers the process of producing the degenerated starch glue base, the first step process, already described. One group embraces the glue base product produced by the first step process. Another group includes the process of dissolving the starch base, by the use of alkaline solvents, the second process step; another, the combination of the two process steps and finally the group with which we are now concerned is based upon the ultimate product, the glue itself. Three of the claims embraced in this ultimate product group are the only ones now in suit, 28, 30, and 31. They are as follows:

28. A glue comprising cassava carbohydrate rendered semi-fluid by digestion and having substantially the properties of animal glue.

30. A wood and fiber glue formed of a starchy carbohydrate or its equivalent by union therewith of about 3 parts or less by weight of water and alkali metal hydroxid.

31. A wood and fiber glue containing amylaceous material as a base dissolved without acid in about three parts of water or less, and being viscous, semifluid and unjellified.

Of these the broadest in terms is No. 28, but it appears that a glue thus composed will not have "substantially the properties of animal glue" unless containing only the small amount of water specified in claim 30. We may take it also that an article which is "wood and fiber glue" as described in the specifications will be "viscous, semifluid and unjellified" as described in claim 31, and will also have substantially the properties of animal glue as specified in claim 28, so that in point of substance the product claims in suit are for a starch glue which, combined with about three parts or less by weight of water will have substantially the same properties as animal glue.

With respect to the other or nonproduct groups of claims respondent, in consequence of earlier litigation, has filed a disclaimer. Brief reference must be made to both the litigation and the disclaimer.

The respondent brought an infringement suit in the northern district of Illinois against the Solva Company, asserting an infringement of claims in each of the five groups by the product of that company, comprising in part at least a raw cassava starch glue base which, for present purposes, may be taken as identical with the product of the petitioner. Upon appeal to the seventh circuit court of appeals (*Solva Waterproof Glue Co.* v. *Perkins Glue Co.*, 251 Fed. 64), that court rendered an opinion, in some respects obscure, which has given rise to widely differing views as to its effect. In considering the present question we may assume that the court below was right in saying of that opinion,

It held that the claims to the first step of the process, and to the product resultant therefrom—the glue base—were anticipated by Gerson & Sachse, and hence that the glue base, as a product and as the foundation of the second step in Perkins's process, was an old and unpatentable product. It found that Perkins's glue had the novelty and merit claimed for it. It sustained the claims to the compound two-step process, and to some extent at least, the claims to the ultimate product, and did not sustain the claims to the second-step process. No attention was paid to any distinctions in the different kinds of solva base that were involved. Its treatment of the process claims to the second-step process is open to the interpretation—and we think it the right one—that the court considered those claims broad enough to cover the specified treatment as applied to any starch base however high in viscosity, and employing water to any extent, and even though the product would not approximate Perkins's glue; and hence thought them invalid. If that view is correct they were too broad. At the conclusion of its opinion the court said that the decree "below sustaining the claims for the glue base and [first step] product, and for the so-called second step as such, is reversed, and that part of it which upholds the claims of the patent for the final process and the resultant product is affirmed."

We may assume also the correctness of the view of the court below that the effect of this decision was to sustain broadly the claim to the resultant product, the glue described in claims 28, 30 and 31, as distinguished from the intermediate product which was the resultant of the first step and was found to be old, and that the product claims thus upheld included a starch glue having substantially the properties of animal glue whether made by the employment of both steps of the compound process or not.

As a result of this decree the plaintiff filed a disclaimer of all the claims for the glue base itself and all those for the first process step. It also disclaimed from the second process step

any process of making glue, excepting where the starch or starchy product or carbohydrate subjected to the process, is degenerated to the extent described [in the patent], whereby the process results in the good as animal glue described

in the patent. Again we assume that the court below was right in saying that the effect of the disclaimer as to the second step claims was to limit them to a process where the material with which the second process step begins is any starch in fact degenerated to the point necessary to produce the result at which the second process step is aimed, whether the degeneration is effected by the first step or other artificial process or the suitable starch is a natural agricultural product, sufficiently degenerated without chemical treatment and purchaseable in commercial quantities.

The second step process as narrowed by the disclaimer consists in the selection of a starch suitably degenerated, no matter how, and the treatment of it with an alkali as in the Gerard and Dornemann patents, but by the terms of the disclaimer only such starches are suitable, that is to say, fall within the range of selection, which, when treated by the second step process, will produce a glue as good as animal glue for veneering. The use or function of the resultant glue is made the measure or test of the choice of its ingredients.

Apparently no brand of raw starch which Perkins could procure in commercial quantities when conducting his experiments could be used as a glue base without the artificial degeneration of his first step. But it appears that the defendant has been able to purchase in such quantities a starch which is a natural agricultural product having a low water absorptiveness and other characteristics making it suitable for use as a glue base. Beginning with this starch the petitioner employs what is in effect so much of Perkins's second step as is old by combining the starch with three parts of water or less and approximately four per cent of caustic soda. The mixture, when agitated and heated, produces a glue which petitioner says is heavier than animal glue, but which is used commercially as a substitute for it and which, for present purposes, may be taken as having substantially the qualities of animal glue. Whether the result may be attributed wholly to reduced viscosity of the starch, due to changed methods of cultivation or manufacture, or in some measure to peculiarities of petitioner's dissolving operation does not appear.

Petitioner contends that the raw starch selected and used by it in the manufacture of its product has high water absorptive qualities above the range defined by the patent, not satisfying the tests laid down in the patent for ascertaining whether the appropriate stage for degeneration has been reached for the employment of the second step. As the process claims are not before us this contention has bearing only upon the broad product claims which are the subject of the present suit. It is the contention of the respondent, and the court below held, that its product claims 28, 30, and 31, concededly broad enough, as stated, to cover the petitioner's product, are valid and that all starch veneering glues, at least when mixed with three parts of water or less, having substantially the properties of animal glue, infringe the patent whether made by Perkins's process or otherwise.

We take it, as the respondent argues, that product patents or patents of compositions of matter are distinct from patents of the process by which the product may be produced. The former, if sufficiently described, may exist and be sustained independently of the latter. *Rubber Company* v. *Goodyear*, 9 Wall. 788; *Leeds & Catlin* v. *Victor Talking Machine Co.*, 213 U. S. 301, 318; 144 O. G. 1089. Hence any narrowing of process claims is not necessarily a narrowing of product claims. So much of the claim as is saved from the second step of Perkins's process after the disclaimer and referred to here as a process claim is, in fact, only the choice of an ingredient of the glue product, independently of the chemical process of producing it. It was necessary that the Perkins patent, so far as it is a patent of a composition of matter, should contain some description of the ingredients entering into the composition which would both define the invention, *Grant* v. *Raymond*, 6 Pet. 218, 247; *Wood* v. *Underhill*, 5 How. 1, 5; *Tyler* v. *Bos-*

ton, 7 Wall. 327, 330; *Béné* v. *Jeantet*, 129 U. S. 683; 47 O. G. 407; *Howard* v. *Detroit Stove Works*, 150 U. S. 164. 167; 65 O. G. 1765, and carry it beyond the previous development of the art. Had Perkins claimed only a glue made of starch dissolved in three parts of water with an alkali, he would not have advanced beyond the Gerard and Dornemann patents and subsequent practice. As his patent discloses, it was well known that ordinary starch treated in this manner produced a thick glue unsuitable for wood veneering if made with three parts of water, and a thin glue not strong enough for wood veneering if made with four parts or more of water.

Perkins's real invention, apart from the combination of his first and second step processes, with which we are not now concerned, was that by the use of a particular kind of starch as an ingredient a new composition of matter was made for which he claimed his patent. Some description of this product was obviously essential to patentability and Perkins in the reissued patent sought to meet this necessity in two ways. One was to describe the product by describing its characteristic ingredient with particularity. If we look at the specifications, as we may, he did this by indicating the range of water absorptivity, or stated in another way the degeneration, of the starch ingredient in Perkins's glue. As described the starch ingredient fell short of dextrine or soluble starch, but was of lower water absorptivity than petitioner's glue base. The glue made of this ingredient within the specified range was a new product. This was invention of a new composition of matter and was the real contribution Perkins made to the art. As such it was entitled to the protection of a patent but as thus described and limited petitioner's product does not infringe.

To so describe the product is not, as the court below seemed to think, a limitation of product claims by reference to process claims. A patentable process is a method of treatment of certain materials to produce a particular result or product. *Cochrane* v. *Deener*, 94 U. S. 780. The description of one does not necessarily embrace the other. Either or both may be patentable. But here we are concerned only with the choice of one ingredient of the product. There can be no description of a composition of matter without some designation of its ingredients. If the selection or choice or designation of an essential ingredient of a composition of matter may be referred to, inaccurately as we think, as a process, the "process" is one inseparable from the composition itself. The description of one necessarily limits the other. Hence the patent of the product cannot extend beyond a product having the designated ingredient. See *Powder Co.* v. *Powder Works*, 98 U. S. 126. 137; 15 O. G. 289; *Béné* v. *Jeantet*, *supra*; *Goodyear Dental Vulcanite Co.* v. *Davis*, 102 U. S. 222; 19 O. G. 543.

Perkins's second way of describing the starch ingredient of his product was in terms of the use or function of the product itself. The chosen starch ingredient was to possess such qualities that when combined with three parts of water and with alkali it would produce a product "as good as animal glue" for veneering, or having the properties of animal glue, these properties being described in terms of its functions. The ingredient was thus described, not in terms of its own physical characteristics or chemical properties or those of the product, but wholly in terms of the manner of use of the product. Any glue made of a starch base, whatever its composition, water absorptiveness or other properties, combined with alkali and three parts of water, which has substantially the properties of animal glue, or is as good as animal glue for use in the wood-working trades, is claimed as Perkins's glue. Thus the inventor who advances the art by discovery that a certain defined material may be combined in a product useful for certain purposes seeks to extend his monopoly to any product which may subsequently be made from materials not within any defined range described in the patent, but which is likewise useful for those purposes.

But an inventor may not describe a particular starch glue which will perform the function of animal glue and then claim all starch glues which have those functions, or even all starch glues made with three parts of water and alkali, since starch glues may be made with three parts of water and alkali that do not have those properties. See *The Incandescent Lamp Patent*, 159 U. S. 465, 472; 73 O. G. 1289. Revised Statutes, section 4888, requires that the patent shall contain a description of the invention—

> and of the manner and process of making, constructing, compounding, and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art or science to which it appertains, or with which it is most nearly connected, to make, construct, compound, and use the same.

One attempting to use or avoid the use of Perkins's discovery as so claimed and described functionally could do so only after elaborate experimentation. Respondents say that laboratory tests would be insufficient and that—

> the best and probably the only satisfactory test is to try it out on a large scale in a furniture or veneering gluing factory.

A claim so broad, if allowed, would operate to enable the inventor who has discovered that a defined type of starch answers the required purpose to exclude others from all other types of starch and so foreclose efforts to discover other and better types. The patent monopoly would thus be extended beyond the discovery and would discourage rather than promote invention. *The Incandescent Lamp Patent*, *supra*, 476. That the patentee may not by claiming a patent on the result or function of a machine extend his patent to devices or mechanisms not described in the patent is well understood. *O'Reilly* v. *Morse*, 15 How. 62, 112, 113; *Knapp* v. *Morss*, 150 U. S. 221, 228; 65 O. G. 1593; *Electric Signal Co.* v. *Hall Signal Co.*, 114 U. S. 87, 31 O. G. 515; *Westinghouse* v. *Boyden Power Brake Co.*, 170 U. S. 537, 83 O. G. 1067; *Mitchell* v. *Tilghman*, 19 Wall. 287; *Fuller* v. *Yentzer*, 94 U. S. 288, 11 O. G. 551; *Ridson Iron & Locomotive Works* v. *Medart*, 158 U. S. 68, 71 O. G. 751. Respondent argues that this principle, applicable to machine patents, is inapplicable to a patent for the composition of matter which is always a result of a process and concededly is patentable as such, but the attempt to broaden product claims by describing the product exclusively in terms of its use or function is subject to the same vice as is the attempt to describe a patentable device or machine in terms of its function. As a description of the invention it is insufficient and if allowed would extend the monopoly beyond the invention. See *Béné* v. *Jeantet*, *supra*; *Cochrane* v. *Badische Anilin & Soda Fabrik*, 111 U. S. 293; 27 O. G. 813; *The Incandescent Lamp Patent*, *supra*; *Matheson* v. *Campbell*, 78 Fed. 910; 79 O. G. 686; *American Adamite Co.* v. *Mesta Machine Co.*, 18 Fed. (2d) 538.

So far as respondent seeks to enlarge its product patent by subordinating the patent description of the starch ingredient which the patentee used, and which respondent does not use, to the vague and indefinite description in the three product claims now in suit, the patent is subject to the same vice.

Reversed.

Patent Suits.

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1,590,409, H. Bender, Sport cap, D. C. Nebr. (Omaha), Doc. E 849, *Omaha Cap Mfg. Co.* v. *Omaha Hat Factory*. Decree for plaintiff, May 19, 1928.

1,594,490, E. C. Bertolet, Method of dyeing bone and the product thereof, filed Apr. 16, 1928, D. C., E. D. Pa., Doc. 4379, *G. K. Hale Mfg. Co.* v. *Hafleigh & Co. et al.*

1,601,575, L. C. Marshal, Piston packing, filed May 1, 1928, D. C., E. D. Pa., Doc. 4389, *The Simplex Piston Ring Co. of America, Inc.*, v. *G. Henderson (The Auto Gear & Parts Co.)*. Doc. 4391, *The Simplex Piston Ring Co. of America, Inc.*, v. *L. R. Remington*. Doc. 4393, *The Simplex Piston Ring Co. of America, Inc.*, v. *R. Palm (Miracle Piston Ring Co.)*. Same, D. C., S. D. N. Y., Doc. E 45/117, *The Simplex Piston Ring Co. of America, Inc.*, v. *M. Weissberger (Triangle Auto Parts Co.)*. Dismissed May 19, 1928. Same, D. C., N. D. Ohio, E. Div., Doc. 2563, *The Simplex Piston Ring Co. of America, Inc.*, v. *The Automotive Bearing & Equipment Co.* Dismissed May 12, 1928.

1,603,207, T. Huston, Paper bag and seal, D. C., N. D. Ga. (Atlanta), Doc. E 434, *T. Huston* v. *C. O. Barrett (Barrett Potato Chip Co.)* Decree and injunction against defendant (notice dated May 16, 1928).

1,615,147, R. M. Taylor, Combined muffler and cut-out, filed June 17, 1927, D. C., S. D. Ind. (Indianapolis), Doc. 1056, *J. E. Goerlich et al.* v. *H. McGinnis et al.* Decree for plaintiff May 9, 1928.

1,616,960, A. T. Johanson, Heater, filed May 17, 1928, D. C., N. D. Ind. (Ft. Wayne), Doc. E 62, *Combination Boiler Co.* v. *Bass Foundry & Machine Co.*

1,628,989, A. E. Loewy, Automatic controlling mechanism, filed Mar. 30, 1928, D. C., E. D. Pa., Doc. 4365, *Liberman Mfg. Co.* v. *Textile Machine Works.*

1,660,511, A. O. Jaeger, Catalytic apparatus, filed Mar. 30, 1928, D. C., E. D. Pa., Doc. 4367, *The Sheldon Co.* v. *Pennsylvania Salt Mfg. Co.*

Re. 13,436, F. G. Perkins, Glue and method of making, filed Apr. 26, 1928, D. C., S. D. Ind. (Indianapolis), Doc. 1139, *Perkins Glue Co.* v. *Showers Bros. Co.*

Des. 69,887, F. W. Horstmann, Fur, D. C., S. D. N. Y., Doc. E 40/80, *F. W. Horstmann et al.* v. *Brickner & Bernfeld, Inc., et al.* Patent held valid and infringed May 19, 1928. Doc. E 40/130, *F. W. Horstmann et al.* v. *J. Montag et al. (Montag & Ettelman)*. Decree as above. Doc. E 40/270, *F. W. Horstmann et al.* v. *J. Schwartz et al.* Decree as above.

Des. 74,586, M. Stettner, Radio cabinet or similar article, D. C., S. D. N. Y., Doc. E 45/3, *M. Stettner et al.* v. *S. Rappoport (Ideal Radio Cabinet Mfg. Co.)*. Patent held valid and infringed May 14, 1928.

T. M. 218,562, M. Becker Co., Beverages and various fruit flavors, filed May 21, 1928, D. C., W. D. N. Y., Doc. 1312-G, *E. M. Becker et al. (Miller Becker Co.)* v. *Eagle Bottling Works of Buffalo, Inc.*

Disclaimers.

1,208,287.—Whereas, on October 29, 1925, there was filed in this case a disclaimer to claims 5, 6, 7, 8, 21, and 23, but in the notice of this disclaimer as published in the OFFICIAL GAZETTE of November 17, 1925, the numbers of the claims disclaimed were given as 40, 72, and 73, now therefore this corrective notice of disclaimer is published.

1,208,287.—*Samuel E. Carlin*, Chicago, Ill. CALCULATING MACHINE. Patent dated December 12, 1916. Disclaimer filed October 29, 1925, by the assignee by mesne assignments, *John T. Underwood*.

Hereby enters this disclaimer to claims numbered 5, 6, 7, 8, 21, and 23, the right to said claims having been established by William S. Gubelmann in interference proceeding No. 43,578.

1,208,288.—Whereas, on October 29, 1925, there was filed in this case a disclaimer to claims 40, 72, and 73, but in the notice of this disclaimer as published in the OFFICIAL GAZETTE of November 17, 1925, the numbers of the claims disclaimed were given as 5, 6, 7, 8, 21, and 23, now therefore this corrective notice of disclaimer is published.

1,208,288.—*Samuel E. Carlin*, Chicago, Ill. CALCULATING MACHINE. Patent dated December 12, 1916. Disclaimer filed October 29, 1925, by the assignee, by mesne assignments, *John T. Underwood*.

Hereby enters this disclaimer to claims numbered 40, 72, and 73, the right to said claims having been established by William S. Gubelmann in interference proceeding No. 43,554.

1,290,557.—*Calvin H. Hill*, Oak Park, Ill. SEAT HINGE FOR ARTICLES OF FURNITURE. Patent dated January 7, 1919. Disclaimer filed June 25, 1928, by the assignee by mesne assignments, *Heywood-Wakefield Company*.

Hereby enters this disclaimer to claim 1 of Patent No. 1,290,557, which is in the following words:

"In an article of furniture, a framework, a stationary bracket attached thereto, a swinging seat supporting bracket pivotally held on said stationary bracket, a pair of rollers carried by said swinging bracket on diametrically opposite sides of its pivotal axis, and a pair of surfaces carried by said stationary bracket curved concentrically with the pivotal axis of said swinging bracket and in contact throughout their length with said rollers."

1,585,224.—*Clive Morris Alexander*, New York, N. Y. PROCESS OF AND APPARATUS FOR DISTILLING OILS. Patent dated May 18, 1928. Disclaimer filed June 28, 1928, by the patentee.

Hereby enters this disclaimer to the subject matter of claims 3, 5, and 7 of the said specification excepting when the oil and vapor are maintained and kept in intimate contact throughout their concurrent flow while being subjected to heat or while being heated.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 17, 1928.

[VOL. 372. No. 3.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

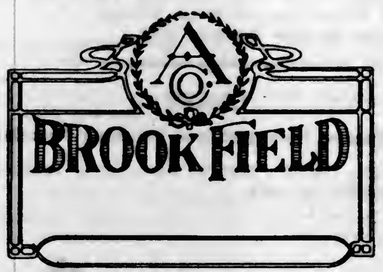
Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 264,550. AUERBACH COMPANY, Salt Lake City, Utah. Filed Apr. 9, 1928.



For Cotton Used as a Filling for Comforters, Quilts, Mattresses, Pads, Cushions, and Similar Articles.
Claims use since Jan. 1, 1927.

Ser. No. 264,893. LARAMIE COUNTY CERTIFIED SEED POTATO GROWERS ASSOCIATION, Egbert, Wyo. Filed Apr. 16, 1928.



No claim is made to the words "Grown Dry" apart from the mark as shown in the drawing.
For Seed Potatoes.
Claims use since Feb. 16, 1928.

Ser. No. 265,644. SOPHIE J. HILSCHER, doing business as A. J. Hilscher, Baltimore, Md. Filed Apr. 30, 1928.



The portion of the mark in script type represents the trade or business signature of applicant.
For Plants and Flowers.
Claims use since Jan. 4, 1928.

Ser. No. 266,067. WHITNEY-ECKSTEIN SEED CO., Buffalo, N. Y. Filed May 7, 1928.

VICTORIA - PARK

For Lawn Grass and Field Seeds.
Claims use since Apr. 10, 1928.

Ser. No. 266,289. WEST VIRGINIA SOUTHERN COAL COMPANY, Huntington, W. Va. Filed May 11, 1928.



Exclusive use of the word "Coal" is disclaimed.
For Coal.
Claims use since Mar. 24, 1928.

CLASS 2.

Receptacles.

Ser. No. 263,628. THE WHITE TAR COMPANY OF NEW JERSEY, INC., Kearny, N. J. Filed Mar. 22, 1928.

HANG-IN

For Garment Bags of Paper or Cloth.
Claims use since about Jan. 9, 1928.

Ser. No. 265,413. SHERIDAN-CLAYTON PAPER CO., St. Joseph, Mo. Filed Apr. 25, 1928.



The word "Kraft" does not form a part of the registration sought apart from the mark shown in the drawing.
For Paper Bags.
Claims use since 1887.

Ser. No. 265,996. SUPERIOR PAPER PRODUCTS COMPANY, Carnegie, Pa. Filed May 5, 1928.

SUPER-KRAFT

The word "Kraft" is disclaimed apart from the mark as shown.
For Corrugated-Paper Shipping Containers.
Claims use since Apr. 16, 1928.

CLASS 3.

Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 263,964. THE MIDLAND COMPANY, South Milwaukee, Wis. Filed Mar. 29, 1928.

Red-Head

For Jointed Clips for Harness.
Claims use since Dec. 29, 1927.

Ser. No. 267,094. TIFFANY & COMPANY, New York, N. Y. Filed May 26, 1928.



For Shopping Bags, Chatelaine Bags, Suitcases, Traveling Bags, Vanity Bags, Portfolios, Purses and Pocketbooks, Riding Crops and Whips, Stirrups.
Claims use since February, 1900.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 224,515. GEO. J. KELLY, INC., Lynn, Mass. Filed Dec. 10, 1925.

RELAM PAGO

For Shoe-Polish Creams.
Claims use since about May 23, 1924.

Ser. No. 242,956. LOCKWOOD, BRACKETT CO., Waltham, Mass. Filed Jan. 17, 1927.



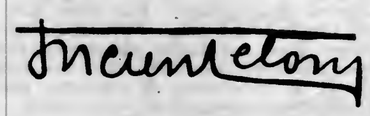
For Soaps and Shampoo-Soap Solutions.
Claims use since on or about Feb. 1, 1926.

Ser. No. 255,357. SOCIETE ANONYME ETABLISSEMENTS MULVIDSON, Paris, France. Filed Sept. 28, 1927.



All wording appearing upon the drawing except the word "Emsa" is disclaimed apart from the mark as shown.
For Lixivial Liquids and Powders for Washing Stockings, Socks, and Lingerie.
Claims use since Apr. 18, 1927.

Ser. No. 257,166. LUCIEN LELONG, Paris, France, assignor to Lucien Lelong, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 7, 1927.



The mark consists of the facsimile signature of applicant.
For Toilet and Bath Soaps and Shaving Soap.
Claims use since December, 1924.

Ser. No. 263,605. JARRETT TYPE CLEANER, INC., New York, N. Y. Filed Mar. 22, 1928.



The applicator appearing in the drawing is disclaimed apart from the mark shown.
For Type Cleaner.
Claims use since on or about Dec. 6, 1927.

Ser. No. 264,797. THE AKRO AGATE COMPANY, Clarksburg, W. Va. Filed Apr. 14, 1928.

AKRO LITH

For Glass Balls for Graining and Polishing Plates and the Like.
Claims use since Mar. 5, 1928.

Ser. No. 265,317. CHARLES H. BRIGGS, doing business as Charles H. Briggs & Co., Chicago, Ill. Filed Apr. 24, 1928.

WHITE HORSE

For Antiseptic Chemical Cleaner for Cleaning the Hands, Floors, Wash Rooms, Toilets, Sinks, Ice Boxes, Stoves, and Metals.
Claims use since Mar. 7, 1928.

Ser. No. 265,866. WARREN SOAP MANUFACTURING COMPANY, Boston, Mass. Filed May 3, 1928.



For Dry-Cleaning Soap Preparation.
Claims use since Nov. 1, 1927.

Ser. No. 266,497. MILTON D. SWARTZ, doing business as The Bluko Co., Baltimore, Md. Filed May 16, 1928.

BLUKO

For Cleaning Material—Namely, a Preparation for Cleaning Woodwork, Interior and Exterior, Furniture, Pianos, Toilets, Bathtubs, Porcelain Fixtures, Laundry Tubs; Marble, Tile, and Kitchen Floors; Oilcloth and Linoleum, Refrigerators, Kitchen Cabinets, Windows and Mirrors, Glassware and Cutlery, Pots, Pans, Kitchen Utensils, Stoves, Silverware, Aluminum, Nickel, Copper, Brass, Tin, Oil Paintings and Statuary, Display Fixtures, Automobiles, Trolley Cars, Railway Coaches, Steamships and Yachts.

Claims use since September, 1927.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 241,656. WILLIAM S. DRUM, doing business as W. S. Drum Company, Delhi, N. Y. Filed Dec. 18, 1926.

ACE-NOL

For Antiseptic Preparation for Treatment of the Hair and Face.

Claims use since May 15, 1926.

Ser. No. 251,977. SARAT CHANDRA NANDI, Detroit, Mich. Filed July 13, 1927.



The word "Hindu" is disclaimed.

For Incense.

Claims use since July 1, 1915.

Ser. No. 256,180. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Oct. 17, 1927.



For Chemical Products for Industrial, Scientific, and Photographic Purposes—Namely, Coal-Tar Intermediate Products, Artificial Indigo, Artificial Alizarine, Hydrosulphites, Aniline Oil, Aniline Salt, Resorcin, β-Naphthol, Naphthylamine Paranitraniline Metanitroparatoluidine, Orthonitrotoluidine, Orthonitroparaphenetidine, Benzidine, Dianisidine, Chloranisidine, Parasanol, Paraacid, Anthraquinone, Methyl Orange, Chromochloride, Perchloride, Potassium Sulphite, Acetaldehyde, Acetone, Antichlor, Caustic-Soda Lye, Chlorine, Chrome Alum, Diethylsulphate, Sodium Acetate, Sodium Bisulphite, Sodium Sulphite, Olein, Paraldehyde, Sulphate, Hydrogen, Zinc Powder, Photographic Developers and Sensitizers; Dyestuffs; Mordants for Dyeing and Printing Purposes; Acids—Namely, Acetic Acid, Acetic-Acid Essence, Acetic-Acid Anhydrid, Monochloroacetic Acid, Nitric Acid, Hydrochloric Acid, and Sulphonic Acid; Tanning Materials; Disinfectants; Plant and Animal Extirpatives—Namely, Fungicides, Germicides, Insecticides, and Parasiticides; Benzoic Acid for Preservation of Foodstuffs; Pharmaceutical and Therapeutical Preparations—Namely, Antigonorrhœics, Analgesics, Antineuralgics, Antipyretics, Antirheumatics, Antiarthritics, Anæsthetics, Antidiabetics, Anthelmintics, Antidyspnoics, Antisyphilitics, Astringents, Antiparasitics, Antichlorotics, Antidiarrhœics, Antihydrotics, Antiphthisics, Antiblennorrhœics, Antispasmodics, Digestives, Desiccatives, Biological Reagents and Diagnostics, Dietetics, Cardiac Tonics, Diuretics, Diaphoretics, Expectorants, Hæmostatics, Iodine Preparations, Mydriatics, Nutrients, Laxatives, Narcotics, Organotherapeutics, Ocytocics, Tonics and Vasotonics, Urinary Antiseptics, Uric-Acid Solvents, Vulneraries, Serums, and Vaccines; and Preservatives for Leather and Wood—Namely, Antiseptic Chemical Substances in Liquid or Paste Form Used as Preservatives and Sanitary Coatings or Dressings for Wood, Stonework, Brickwork, and Metal.

Claims use since Sept. 22, 1927.

Ser. No. 259,620. CERTIFIED DOG REMEDIES, Atlanta, Ga. Filed Jan. 3, 1928.

LIX-A-FIT

For Dog Remedies—Namely, Medicines for the Treatment of Fits.

Claims use since Oct. 1, 1926.

Ser. No. 260,180. KOTOBUKIYA COMPANY LIMITED, Osaka-Shi, Japan. Filed Jan. 16, 1928.



Applicant disclaims the right to the exclusive use of all wording except the word "Smoca," the signature "S. Toru" and the name "Kotobukiya Company Ltd.," apart from the mark shown on the drawing.

For Tooth Powders, Tooth Pastes, Tooth Washes, and Other Dentifrices.

Claims use since November, 1925.

Ser. No. 262,366. JOHN W. MACKEWICZ, New Hanover Square, Pa. Filed Feb. 28, 1928.



For Antifreezing Liquid.

The word "Water" is disclaimed apart from the mark shown.

Claims use since December, 1926.

Ser. No. 262,768. THE PALMOLIVE-PEET COMPANY, Chicago, Ill. Filed Mar. 7, 1928.



The words "Talc Egyptian" appearing on the drawing are claimed only to the extent that the same comprise a component part of the trade-mark as a whole and such words are disclaimed apart from the mark as shown. This disclaimer, however, is made with the express reservation of and claim to all common-law rights to the mark in its entirety as well as in its component parts.

For Talcum Powder.

Claims use since January, 1922.

Ser. No. 263,373. BROTHERS CORPORATION, New York, N. Y. Filed Mar. 19, 1928.

ADUIN

For Prepared Medicine, a Brand of Bile Salts.

Claims use since Jan. 11, 1928.

Ser. No. 263,859. CHEMISCHE FABRIK JACOBUS G. M. B. H., Berlin-Charlottenburg, Germany. Filed Mar. 28, 1928.

MERCERISIN

For Chemical Product to be Mixed with Water and Used in Disinfecting and Restoring to Textile Fabrics the Glossy Finish and Original Coloring.

Claims use since Sept. 1, 1927.

Ser. No. 264,193. PINAUD INCORPORATED, New York, N. Y. Filed Apr. 2, 1928.



For Hair Tonic.

Claims use since 1886.

Ser. No. 264,194. PINAUD INCORPORATED, New York, N. Y. Filed Apr. 2, 1928.



EAU DE QUININE

The words "Eau de Quinine" are disclaimed apart from the mark as shown on the drawing.

For Hair Tonic.

Claims use since 1886.

Ser. No. 264,195. PINAUD INCORPORATED, New York, N. Y. Filed Apr. 2, 1928.



EAU DE QUININE

The words "Eau de Quinine" are disclaimed apart from the mark as shown on the drawing.
For Hair Tonic.
Claims use since 1886.

Ser. No. 264,221. CHARLES A. BUCHER, Pittsburgh, Pa. Filed Apr. 3, 1928.



The drawing is lined and is intended to indicate the colors red and blue.
For Face Powders and Rouges.
Claims use since Feb. 16, 1928.

Ser. No. 264,689. MOHAMMED I. KITCHLEW, Chicago, Ill. Filed Apr. 11, 1928.



Applicant states that no claim is made to the words "Oriental Incense" apart from the mark as shown.
For Incense.
Claims use since Dec. 5, 1927.

Ser. No. 264,690. CHIN LAIN, doing business as Kwong Qwong Chiy Co., Canton, China, and as The Quong Chong Co., San Francisco, Calif. Filed Apr. 11, 1928.



The drawing is lined to denote the color gold.
For General Tonic.
Claims use since Mar. 1, 1915.

Ser. No. 264,748. BEAUTY RESEARCH LABORATORIES, INC., Chicago, Ill. Filed Apr. 13, 1928.



For Skin Salve Preparations Including Facial Creams.
Claims use since Feb. 10, 1928.

Ser. No. 265,289. ROBERT E. PARRISH, doing business as The Parrish Drug Co., Bennington, Okla. Filed Apr. 23, 1928.

POULTRY ANTISEPTIC



No claim is made to the words "Poultry Antiseptic" apart from the mark shown in the drawing.
For Medicine for the Prevention and Treatment of Roup, Blackhead, Sore Head, Cholera, Colds, and General Intestinal Antiseptic for Poultry.
Claims use since August, 1927.

Ser. No. 265,400. PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa. Filed Apr. 25, 1928.



The shading in the drawing is intended to denote the colors blue and yellow. The words "Chlorinated Lime for Technical Purposes only Manufactured by, Philadelphia, Pa." are disclaimed apart from the mark as shown.
For Chlorinated Lime.
Claims use since May, 1923.

Ser. No. 266,279. SOCIETE ANONYME DONGE, Courbevoie, France. Filed May 11, 1928.

H. Gontier

The signature is that of H. Gontier, from whom applicant derives its title, applicant being the successor of H. Gontier in the ownership of said mark.
For Perfume, Face Powder, Talcum Powder, Sachet, Face Cream, Brilliantine, Lotions for the Skin and Hair, Rouge, Lip Sticks, and Tooth Paste.
Claims use since Dec. 13, 1927.

Ser. No. 266,423. GRAPE CAPSULE COMPANY, INC., Allentown, Pa. Filed May 15, 1928.

DUO-SEPTUBES

For a Hygienic, Prophylactic, and Antiseptic Preparation.
Claims use since March, 1927.

Ser. No. 266,472. NATIONAL MAGNESIA CO. INC., Brooklyn, N. Y. Filed May 16, 1928.

CITROMA

For Laxatives.
Claims use since May 11, 1928.

Ser. No. 266,521. FOOD MATERIALS CORPORATION, Chicago, Ill. Filed May 17, 1928.

THERMOCOL

For Dyes.
Claims use since Dec. 14, 1927.

Ser. No. 266,573. THE ANDREW JERGENS COMPANY, Cincinnati, Ohio. Filed May 18, 1928.

BIJOU DE L'AIR

For Perfume.
Claims use since May 1, 1928.

Ser. No. 266,588. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Leverkusen, near Cologne-on-the-Rhine, Germany. Filed May 18, 1928.

Baykolicker

For Stuffing Agent Used in the Manufacture of Leather of All Kinds.
Claims use since about Jan. 28, 1928.

Ser. No. 266,590. H. CLAY GLOVER CO., INC., New York, N. Y. Filed May 18, 1928.

GLOVER'S
Imperial
HAIR
APPLICATION
AND
MANGE
MEDICINE
FOR
SUPERFICIAL
MANGE

Without waiving any common-law rights, no claim is made to the words "Hair Application and Mange Medicine for Superficial Mange" apart from the combination and arrangement shown in the drawing.
For Hair Application and Mange Medicine.
Claims use since Mar. 30, 1928.

Ser. No. 266,603. PEARL MCINTOSH, Topeka, Kans. Filed May 18, 1928.

Naturelle

For a Preparation for Permanent Hair Waving.
Claims use since July 24, 1927.

Ser. No. 266,624. HALLIE L. SAMPLE, Muncie, Ind. Filed May 18, 1928.

SAMPL-LAX

For Laxative Medicines.
Claims use since May 11, 1928

Ser. No. 266,632. THE J. R. WATKINS COMPANY, Winona, Minn. Filed May 18, 1928.

DI RO PO

For Roundworm Capsules and Tablets.
Claims use since July 4, 1927.

Ser. No. 266,646. CARR CHEMICAL COMPANY, Coral Gables, Fla. Filed May 19, 1928.

MENOEES

For Tablets Used in the Alleviation of Menstrual Cramps.
Claims use since Mar. 15, 1928.

Ser. No. 266,679. AUGUST MUSCARELLO, Chicago, Ill. Filed May 19, 1928.

FENITH

For Medicinal Preparation for the Treatment of Rheumatism, Blood Poison, and Itches.
Claims use since May 6, 1928.

Ser. No. 266,926. CHARLES W. GREEN, New York, N. Y. Filed May 24, 1928.

YUTH

For Tissue-Building Preparation to be Taken Internally and Recommended for Supplemental Facial Treatments.
Claims use since Apr. 15, 1928.

Ser. No. 266,947. OKLA WATER CO., Ada, Okla. Filed May 24, 1928.

OKLA WATER

The word "Water" is not claimed apart from the mark as shown.
For Saline Laxative and Aperient.
Claims use since December, 1927.

Ser. No. 266,990. E. J. HART & CO. LTD., New Orleans, La. Filed May 25, 1928.

Lac Bismo

For Ointment for Local Application for the Treatment of Chapped Hands, Sunburn, Irritation, and Slight Abrasions of the Skin.
Claims use since Apr. 24, 1928.

Ser. No. 267,074. ODOR-NOX CHEMICAL CO., Chicago, Ill. Filed May 26, 1928.

KORREX

For Foot Deodorant.
Claims use since May 1, 1928.

Ser. No. 267,100. VERMILYA MEDICINE COMPANY, Bloomington, Ind. Filed May 26, 1928.

VerWilKo

For a Vegetable Tonic and Blood Purifier for Laxative Purposes.
Claims use since Apr. 14, 1928.

Ser. No. 267,109. THE AYER COMPANY, Lowell, Mass. Filed May 28, 1928. Under 10-year proviso.

PECTORAL

For Cough Medicines.
Claims use since about 1853.

Ser. No. 267,271. RALPH M. PALMER, New York, N. Y. Filed May 31, 1928.

Ferro-Nil

For Chemical Preparation for Preventing Corrosion of Metal Surfaces Such as the Interior Surfaces of Water Pipes.
Claims use since Dec. 1, 1927.

Ser. No. 267,275. THE PRESERVALINE MANUFACTURING CO., Brooklyn, N. Y. Filed May 31, 1928.

LAKTONE

For Coloring for Cheese, Butter, Milk, Cream, Beverages, Ice Cream, Custard, Sherbets, Water Ices, and Food Products in General.
Claims use since 1892.

Ser. No. 267,369. GEORGE L. MAX, doing business as Maxine Products Co., Detroit, Mich. Filed June 2, 1928.

BLUE HEAVEN

For Perfumery, Brilliantine, Hand Lotion, Toilet Water, Cold Cream, Vanishing Cream, Massage Cream, Shampoo, Cleansing Cream, Face Powder, Hair Tonic.
Claims use since Mar. 16, 1928.

Ser. No. 267,663. THE OHIO SALT COMPANY, Wadsworth, Ohio. Filed June 7, 1928.

999

For Salt.
Claims use since Oct. 1, 1927.

Ser. No. 267,831. JOHN BUCHANAN, East Pittsburgh, Pa. Filed June 11, 1928.

"O-BOY"

For Antifreeze Solution for Automobile Radiators.
Claims use since May 1, 1928.

CLASS 7.

Cordage.

Ser. No. 265,205. MAURICE P. GERAGHTY, Chicago, Ill. Filed Apr. 21, 1928.

GIFT
Fantasie
CORD

The words "Gift Cord" are disclaimed apart from the mark shown.

For Articles Consisting of a Pressed-Paper Tube Around Which is Wound Decorative Wrapping Cord, the Cylinder Containing at One End a Cone-Shaped Piece of Sealing Wax and at the Other a Decorative Seal.

Claims use since Mar. 3, 1928.

Ser. No. 266,048. SAMSON CORDAGE WORKS, Boston, Mass. Filed May 7, 1928.

PHOENIX

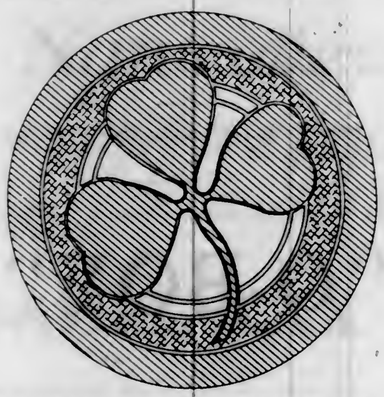
For Braided and Twisted Cords and Twines—Namely, Sash Cord, Trolley Cord, and Similar Braided Cotton Cords and Twines.

Claims use since Apr. 13, 1898.

CLASS 10.

Fertilizers.

Ser. No. 266,525. THE GIBSONBURG LIME PRODUCTS COMPANY, Gibsonburg, Ohio. Filed May 17, 1928.



The drawing is lined for green and orange color.

For Agricultural Lime.

Claims use since Sept. 12, 1927.

CLASS 11.

Inks and Inking Materials.

Ser. No. 263,571. GÜNTHER WAGNER, Hanover, Germany. Filed Mar. 21, 1928.

"Chin-Chin"

For Inks and Ink Powders for Writing, Drawing, Copying, Printing, Duplicating, Lithographing, Stamping, and Stenciling.

Claims use since 1897.

Ser. No. 266,740. THE NELSON-EISMANN CO., Chicago, Ill. Filed May 21, 1928.

LILY



For Typewriter Ribbons.

Claims use since May 15, 1913.

CLASS 12.

Construction Materials.

Ser. No. 257,066. HARRY H. HONIGBAUM, doing business as The Rubber Roofing Co., New York, N. Y. Filed Nov. 4, 1927.

HURRICANE

For Composition Roofing.

Claims use since March, 1917.

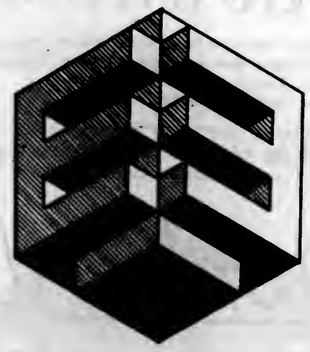
Ser. No. 259,963. LOUIS MICHAEL, doing business as the Keystone Asphalt Products Company, Philadelphia, Pa. Filed Jan. 11, 1928.

NOMOLEAK

For Asphalt and Asbestos Fibre Roofing Compound.

Claims use since Aug. 2, 1924.

Ser. No. 261,331. SOCIETE ANONYME ETERNIT EMAILLE, Cappelle-au-Bois, Belgium. Filed Feb. 7, 1928.



For Building Materials—Namely, Plates, Tiles, Blocks, and Pipes of Enameled Asbestos Cement.

Claims use since November, 1927.

Ser. No. 265,276. THE KELLEY ISLAND LIME AND TRANSPORT COMPANY, Cleveland, Ohio. Filed Apr. 23, 1928.

SNOWFLAKE
FINISH
HYDRATED LIME



Said trade-mark consists of a black triangle within which is shown a tree and a house against a blue background of sky filled with snowflakes, with the words "Snowflake Finish Hydrated Lime" printed above the triangle, the words "Hydrated Lime" being in the line first above the triangle in red letters, the word "Finish" in black letters, printed above the words "Hydrated Lime," and the word "Snowflake" in red letters printed above the word "Finish." Said The Kelley Island Lime and Transport Company hereby disclaims the use of the words "Finish Hydrated Lime," apart from the mark shown on said drawing.

For Hydrated Lime.

Claims use since January, 1917.

Ser. No. 265,396. NATIONAL GYPSUM COMPANY, Buffalo, N. Y. Filed Apr. 25, 1928.

Gold
Bond

For Dry Insulation and Fiber Insulation Used for Thermal Insulating Purposes, Roofing, Portland Cement, Roofing Cements, Brick, Building Tile, Flooring, and Tile Board.

Claims use since Apr. 4, 1928.

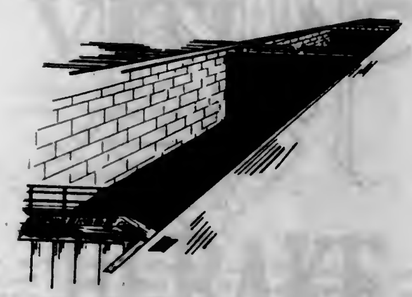
Ser. No. 265,508. THE WATER LOCK COMPANY, Cincinnati, Ohio. Filed Apr. 27, 1928.

WATERLOCK

For Cement Compound to be Mixed with Cementitious Substances for Strengthening and Waterproofing the Resultant Concrete, Mortar, Plaster, Etc.

Claims use since Nov. 10, 1927.

Ser. No. 265,509. THE WATER LOCK COMPANY, Cincinnati, Ohio. Filed Apr. 27, 1928.



For Cement Compound to be Mixed with Cementitious Substances for Strengthening and Waterproofing the Resultant Concrete, Mortar, Plaster, Etc.

Claims use since Nov. 10, 1927.

Ser. No. 265,873. MASONITE CORPORATION, Laurel Miss. Filed May 4, 1928.

MASONITE

For Fiber Board, Insulating Board, Composite Board, Construction Board, and Synthetic Lumber or Artificial Lumber.
Claims use since June 21, 1926.

Ser. No. 266,068. WICKWIRE SPENCER STEEL COMPANY, New York, N. Y. Filed May 7, 1928.

WICKWIRE SPENCER STEEL

For Reinforcing Netting, Concrete Reinforcing Mesh, Concrete Road Mesh, Metal Lath, Reinforcing Fabric, and Metal Sheathing, Manufactured Either Wholly or Partially of Wire.
Claims use since June 1, 1925.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 258,479. MONTGOMERY WARD & CO. INCORPORATED, Chicago, Ill. Filed Dec. 5, 1927.

ROYAL M W

For Aluminum Kitchen Utensils—Namely, Pots and Pans, Beverage Mixers, Trays; Coffee Boilers, Percolators, and Pots; Colanders, Kettles, Covers, Crumb Trays and Scrapers, Dippers, Dishpans, Frying Pans, Omelet Pans, Mixing Bowls, Preserving Kettles, Roasters, Sink Strainers, Skillets, Pitchers, Tea Kettles, Teapots, Wash Basins, Waterless Food Cookers, Ovenettes, Griddles, Camp Sets, and Food Cookers.
Claims use since February, 1916.

Ser. No. 265,553. MANNING, BOWMAN & CO., Meriden, Conn. Filed Apr. 28, 1928.

ARANIUM

For Articles Made of Base Metal Plated with Chromium—to wit, Sugar Bowls, Cream Pitchers, Trays, Crumb-Scraper Sets, Teapot Stands, and Plates.
Claims use since Sept. 3, 1927.

Ser. No. 266,340. CLARK E. WEAVER, doing business as The Dor Vent Co., Kansas City, Mo. Filed May 12, 1928.

Dor Vent

For Ventilating Hinges for Doors, Windows, and Transom Windows.
Claims use since Sept. 13, 1927.

Ser. No. 266,570. JOHN B. ZALLIO, doing business as The Stakover Company, Chicago, Ill. Filed May 17, 1928.

STAKOVER

The word "Kover" is disclaimed apart from the mark as shown.
For Aluminum Restaurant-Service Dish Covers.
Claims use since October, 1927.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 265,835. FULTON HARDWOOD BRASS & ALUMINUM CO., South Bend, Ind. Filed May 3, 1928.

WARE-LITE

For Brass, Aluminum, and Bronze Castings.
Claims use since about Dec. 15, 1927.

CLASS 15.

Oils and Greases.

Ser. No. 254,119. AMERICAN COALINOIL CORPORATION, New York, N. Y. Filed Aug. 30, 1927.

COALINOIL

For Fuel Oil.
Claims use since Jan. 17, 1927.

Ser. No. 263,630. THE WHITE TAR COMPANY OF NEW JERSEY, INC., Kearny, N. J. Filed Mar. 22, 1928.

BAYONETTE

For Candles.
Claims use since April 1, 1926.

Ser. No. 264,044. PENN STATE OIL COMPANY, INCORPORATED, Philadelphia, Pa. Filed Mar. 30, 1928.



The drawing is lined to indicate color. The background is lined for green and the padlock is lined for red, the words "Locked Oil" being disclaimed apart from the mark in the drawing.
For Illuminating Oils, Motor-Fuel Oils, Furnace Oils, Lubricating Oils, and Lubricating Greases.
Claims use since Feb. 8, 1928.

Ser. No. 264,303. HARTOL PRODUCTS CORPORATION, New York, N. Y. Filed Apr. 4, 1928.

HARTOL

For Lubricating, Motor-Fuel, and Furnace Oils, Illuminating Oils, Gasoline, and Lubricating Greases.
Claims use since Jan. 30, 1923.

Ser. No. 264,871. CHAMPLIN REFINING COMPANY, Enid, Okla. Filed Apr. 16, 1928.

PRESTO

For Gasoline.
Claims use since June 1, 1927.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 263,697. THE DUO-IZ PRODUCTS CORP., Chicago, Ill. Filed Mar. 24, 1928.

DUO-IZ

For Glazes for Automobile, Furniture, Tile, and Enamel-Ware Surfaces; Paste and Ready-Mixed Paints, Furniture and Automobile Polishes, Lacquers, Combined Furniture and Automobile Polish and Cleaner and Wood Stains and Varnishes.
Claims use since about Mar. 10, 1928.

Ser. No. 265,204. FUROLIN PAINT MFG. CO., INC., Chicago, Ill. Filed Apr. 21, 1928.

FURO-LIN

For Fire-Resisting and Fireproof Liquids—Namely, Paints, Varnishes, Enamels, and Stains.
Claims use since February, 1922.

Ser. No. 265,357. THE ARCO COMPANY, Cleveland, Ohio. Filed Apr. 25, 1928.

VITLAC

For Paint Enamel.
Claims use since May, 1926.

Ser. No. 265,358. THE ARCO COMPANY, Cleveland, Ohio. Filed Apr. 25, 1928.

HI-BAKE

For Paint Enamel.
Claims use since October, 1926.

Ser. No. 265,543. HILLYARD CHEMICAL COMPANY, St. Joseph, Mo. Filed Apr. 28, 1928.



The trade-mark consists of the words "Shine-All" and "Special" with a rising sun as a background. No claim is made to the words "Shine-All" and "Special" apart from the mark as shown.

For Floor Finish, Furniture Cleaning and Polishing Compound.

Claims use since Mar. 15, 1928.

Ser. No. 265,683. PAINT ENGINEERS, INC., Chicago, Ill. Filed Apr. 30, 1928.



For Ready-Mixed Paints, Lacquer, Varnish, Paint Enamel, and Waterproof Paints.

Claims use since Jan. 11, 1928.

Ser. No. 266,801. FRANK W. DUNNE CO., Oakland, Calif. Filed May 22, 1928.

DULLO

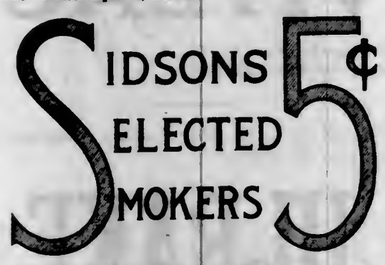
For a Specially-Prepared Varnish.

Claims use since June 10, 1924.

CLASS 17.

Tobacco Products.

Ser. No. 264,371. SIDNEY J. FREEMAN & SONS, New York, N. Y. Filed Apr. 5, 1928.



The words "Selected Smokers" and "5¢" are disclaimed apart from the mark shown on the drawing. The drawing is lined for shading and not for color.

For Cigars.

Claims use since Mar. 15, 1923.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 264,345. AMPLEX MANUFACTURING COMPANY, Detroit, Mich., assignor to Fargo Motor Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 5, 1928.



The drawing is lined conventionally to show a blue background in the panel and a green background for the water portion of the globe.

For Motor Trucks and Buses and Their Structural Parts.

Claims use since Mar. 30, 1928.

Ser. No. 264,366. THE EASY-ON CAP COMPANY, Cleveland, Ohio. Filed Apr. 5, 1928.



For Closures for Use on or in Connection with Motor Vehicles, Such as on the Radiators, Starting-Crank Openings, Breather Pipes, Gasoline Tanks, and the Like.

Claims use since Mar. 1, 1928.

Ser. No. 266,220. THE SHELBY CYCLE COMPANY, Shelby, Ohio. Filed May 10, 1928.



The lining indicates the colors red and blue.

For Bicycles.

Claims use since Apr. 25, 1928.

CLASS 20.

Linoleum and Oiled Cloth.

Ser. No. 266,914. CONGOLEUM-NAIRN, INC., Kearny, N. J. Filed May 24, 1928.



The upper portion of the drawing is cross lined to indicate black and the lower portion is vertically lined to indicate red. Applicant makes no claim to the exclusive use of the word "Linoleum" apart from the mark as shown in the drawing.

For Plain and Inlaid Linoleum and Cork Carpet.

Claims use since May 1, 1928.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 239,983. HEINA RADIO CORPORATION, Long Island City, N. Y. Filed Nov. 12, 1926.



No claim is made to the exclusive use of the name "Heina" apart from the mark shown on the drawing.

For Portable Radio Receiving Sets and Antennæ and Loud Speakers Adapted to be Used in Connection with Auto Vehicles and the Like Portable Purposes.

Claims use since about Oct. 24, 1926.

Ser. No. 243,313. INTER-STATE AUTO PARTS CO., INC., New York, N. Y. Filed Jan. 25, 1927.



The lining in the drawing indicates the colors red and green.

For Automobile Accessories—Namely, Electrical Horns, Electric Lamps, Battery Connectors, Ignition Parts, and Spark Plugs.

Claims use since Mar. 1, 1924.

Ser. No. 249,514. DICTOGRAPH PRODUCTS CORPORATION, New York, N. Y. Filed May 25, 1927.



For Acousticons, Church Acousticons, Acousticon Batteries; Interior Communicating Telephone Systems for Offices, Banks, Factories, Etc.; Interior Telephone Systems for Apartment Buildings Providing Communication Between Vestibule, Apartments, Janitor, Tradesmen, or Other Essential Points; Loud-Speaking Paging or Announcing Systems for Locating Doctors in a Hospital, Announcing Systems Employing Loud Speakers Operated from Central Transmitting Station, Loud-Speaking Limousine Telephones, Radio Loud Speakers, Radio Receiving Sets, Switches for Radio Receiving Sets with One or More Loud Speakers, Radio Loud-Speaking Receiver Units for Attachment to Sounding Boards of Pianos; Listening Devices Employing Supersensitive Transmitters and Headset Receivers for Use by Detective Agencies, Police Departments, Etc.; and Sensitive Transmitters Used as Essential Parts of Burglar Alarms and Vault Protection Systems Whose Operation is Controlled by Sound Waves.

Claims use since Apr. 1, 1927.

Ser. No. 253,877. ELI P. FAY, Los Angeles, Calif. Filed Aug. 24, 1927.



For Battery Separators.

Claims use since on or about Aug. 1, 1924.

Ser. No. 257,713. CHARLES M. SEBEROFF, doing business as Radio Engineering Laboratories, Long Island City, N. Y. Filed Nov. 17, 1927.

REL

For Fixed and Variable Condensers, Inductors for Transmission, Transmitter Frames, Panels, Transmitting Inductances, Grid Leaks, Plug-In Coils, Receiving Kits, Coil Kits, Holders for Transmitting Tubes, Tube Sockets, Choke Coils, Transmitting Kits; Tuned-Plate Tuned-Grid Transmitting Kits and Complete Transmitters, Vacuum-Tube Relays, Assembled Oscillator Power-Amplifier Units, Assembled Broadcast Station Line Amplifier Units, Complete Telephone Transmitting Sets; Microphone Units and Receivers of the Earphone-Type for Radio, Telegraph and Telephone Apparatus, and Complete Radio Picture-Transmitting Apparatus, Low-Power Transmitting Kits Short-Wave Superheterodyne Receiving Sets, Assembled Broadcast Station Line Amplifiers and Control Units, Tube Mountings, and Tube Adapters.
Claims use since October, 1924.

Ser. No. 261,445. MARATHON ELECTRIC MANUFACTURING COMPANY, Wausau, Wis. Filed Feb. 9, 1928.

MARATHON
OK
MOTORS

Applicant disclaims for the purposes of registration exclusive right to the use of the word "Motors" apart from the mark shown.
For Electric Fans, Electric Motors, Electric Generator Sets, Electric Polishing Lathes, and Electric Buffers.
Claims use since 1918.

Ser. No. 265,786. GENERAL CABLE CORPORATION, New York, N. Y. Filed May 2, 1928.

ENTERITE

For Bare and Insulated Electrical Wires and Cables.
Claims use since Nov. 29, 1927.

Ser. No. 265,839. GREAT WESTERN STOVE CO., Leavenworth, Kans. Filed May 3, 1928.

THE HEART OF THE HOME
Banquet

For Electric Ranges.
Claims use since Apr. 13, 1928.

Ser. No. 266,697. JAMES F. WHELAN, Philadelphia, Pa. Filed May 19, 1928.

MIDGY

For Night Table and Nursery Lamps.
Claims use since on or about Apr. 2, 1928.

Ser. No. 267,038. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed May 26, 1928.



The drawing is lined to indicate a contrasting color scheme and not to indicate any particular color.
For Electric Sadirons, Electric Grills, Electric Toaster Stoves, Electric Heating Pads, Plugs, and Conductor Cables.
Claims use since about Oct. 1, 1924.

Ser. No. 267,184. FRED BUTTERFIELD & CO., INC., New York, N. Y. Filed May 29, 1928.

LIGHT O' DAY

For Electric Lamps and Fixtures.
Claims use since Jan. 16, 1928.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 261,730. WILLIAM HENRY LAMPERT ALFRED, doing business as Eaton & Deller, London, England. Filed Feb. 16, 1928. Under 10-year proviso.

HALFORD

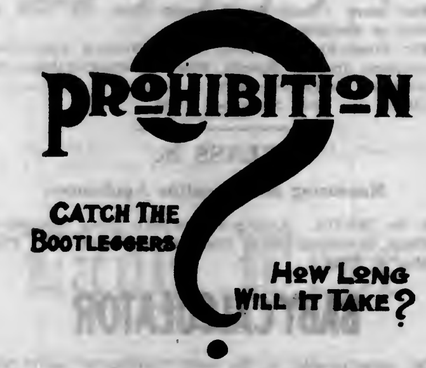
For Silk Fishing Lines.
Claims use since Apr. 3, 1891.

Ser. No. 264,655. A. J. REACH COMPANY, Philadelphia, Pa. Filed Apr. 10, 1928.



For Tennis-Racket Presses, Tennis-Racket Covers, Tennis Bags, Tennis Posts, Tennis Markers, Tennis-Marking Tapes, Tennis Center Straps, Tennis Pulleys and Axles, Tennis Reels.
Claims use since June 1, 1907.

Ser. No. 265,484. MURRY LIVINGSTON, New York, N. Y. Filed Apr. 27, 1928.



For Table Game Played with Pieces.
Claims use since July 1, 1927.

Ser. No. 265,824. AUSTIN W. ANDREWS, New York, N. Y. Filed May 3, 1928.

Tric-Trac

For Table Game Played with Pieces.
Claims use since Apr. 1, 1928.

Ser. No. 266,935. HILLERICH & BRADSBY CO., Louisville, Ky. Filed May 24, 1928.

Travis C. Jackson

The trade-mark consists of the signature of Travis C. Jackson.
For Baseball Bats.
Claims use since June 4, 1924.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 248,950. THE AUTOMATIC MERCHANDISER INC., Boston, Mass. Filed May 13, 1927.



In the trade-mark shown by the drawing the lettering is red.
For Vending Machines.
Claims use since Jan. 28, 1927.

Ser. No. 260,498. FISADCO LIMITED, London, England. Filed Jan. 23, 1928.

WIZARD

For Fish Cleaning, Boning, and Cutting Machines; Fish-Heading Machines, Fish-Slicing Machines, Fish-Washing Machines, and Fish-Canning Machines.
Claims use since May 25, 1926.

Ser. No. 260,889. HOWSER VALVE TOOL MANUFACTURING CO., Laporte, Ind. Filed Jan. 30, 1928.

The Rigid MASTER

No claim is made for the word "Rigid" apart from the mark shown in the drawing.
For Valve-Reseating Tools.
Claims use since November, 1925.

Ser. No. 262,318. THE MANHATTAN RUBBER MFG. CO., Passaic, N. J. Filed Feb. 27, 1928.

PAROCK

For Bearings Made of Hard Rubber.
Claims use since July 29, 1927.

Ser. No. 265,265. EVINRUDE MOTOR COMPANY, Milwaukee, Wis. Filed Apr. 23, 1928.

The Original EVINRUDE Fleetwin

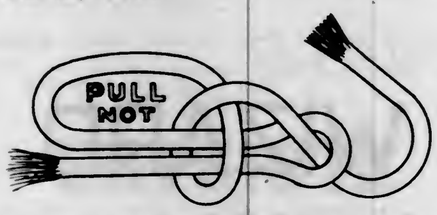
No claim is made to the word "Twin" apart from the remainder of the mark.
For Outboard Boat Motors.
Claims use since Jan. 19, 1928.

Ser. No. 265,647. HUDSON MANUFACTURING CO., Minneapolis, Minn. Filed Apr. 30, 1928.

VACO

For Sprayers and Spraying Attachment for Household and Industrial Uses.
Claims use since about Mar. 8, 1928.

Ser. No. 266,069. HENRY B. WOMACK, doing business as Birmingham Grinding Works, Birmingham, Ala. Filed May 7, 1928.



No claim is made to the words "Pull Not" apart from the trade-mark shown in the drawing.
For Razors and Razor Blades.
Claims use since Sept. 1, 1927.

Ser. No. 267,352. CONSOLIDATED MACHINE TOOL CORPORATION OF AMERICA, Rochester, N. Y. Filed June 2, 1928.

MAGIC

For Drill Chucks.
Claims use since 1901.

Ser. No. 267,473. GUSTAV WIEDEKE COMPANY, Dayton, Ohio. Filed June 4, 1928.

W D

For Tube and Flue Expanders, Tube and Flue Cutters, and Tube and Flue Beading Tools.
Claims use since Dec. 15, 1911.

CLASS 24.

Laundry Appliances and Machines.

Ser. No. 266,124. CANNON ENGINEERING COMPANY, Jamaica, N. Y. Filed May 9, 1928.

VAPO RON

TRADE MARK

The word "Trade-Mark" apart from the mark as shown is disclaimed.
For Steam-Pressing Irons, Steam-Pressing Appliances, Vaporizers, Ironing Boards, Steam-Pressing Tables, and Accessories for Laundry Use.
Claims use since November, 1926.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 266,114. HAROLD S. ZEWISKE, doing business as Baby Calculator Sales Company, Chicago, Ill. Filed May 8, 1928.

BABY CALCULATOR

No claim is made to the word "Calculator" apart from the mark as shown.
For Calculators.
Claims use since June 1, 1924.

Ser. No. 266,749. THE Q R S COMPANY, Chicago, Ill. Filed May 21, 1928.

Q·R·S

For Cameras and Picture-Projecting Machines.
Claims use since May 17, 1928.

Ser. No. 267,396. SOCIÉTÉ ANONYME POUR TOUS APPAREILLAGES MECANIQUES, Levallois-Perret, France. Filed June 2, 1928.

S.A.T.A.M.



For Apparatus for Delivering Measured Quantities of Liquid.
Claims use since Mar. 4, 1922.

CLASS 27.

Horological Instruments.

Ser. No. 265,983. JOSEPH M. PLAUT, doing business as Data Watch Company, Cincinnati, Ohio. Filed May 5, 1928.

DATA

For Watches.
Claims use since Apr. 1, 1928.

Ser. No. 266,272. SAVOY WATCH CO., INC., New York, N. Y. Filed May 11, 1928.

Lady West

For Watches, Watchcases, Watch Movements, and Parts Thereof.
Claims use since Feb. 1, 1928.

Ser. No. 266,725. JACOB ENGEL, doing business as J. Engel & Company, Baltimore, Md. Filed May 21, 1928.

Liberty Belle

For Ladies' Wrist Watches.
Claims use since about Oct. 1, 1918.

Ser. No. 266,808. HELBEIN-STONE COMPANY, INC., doing business as Templar Watch Co., New York, N. Y. Filed May 22, 1928.

TEMPLAR

For Watches, Watchcases, and Watch Movements, and Parts of the Same.
Claims use since about Apr. 30, 1928.

Ser. No. 267,027. THE ANSONIA CLOCK COMPANY, Brooklyn and New York, N. Y. Filed May 26, 1928.

SONIA

For Clocks.
Claims use since 1921.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 255,025. ORESTE PENNINO, doing business as Pennino Brothers, New York, N. Y. Filed Sept. 21, 1927.



For Jewelry for Personal Use or Adornment Consisting of Finger Rings, Earrings, Bracelets, Pendants, Necklaces, Watch Bracelets, Bags, Brooches, Buckles, Bar Pins, Cuff Links, Lorgnettes, Studs, Scarfpins, Hatpins, Vest Buttons, and Handy Pins, All Made of or Plated with Precious-Metal Ware.
Claims use since Nov. 1, 1926.

Ser. No. 255,044. ORESTE PENNINO, doing business as Pennino Brothers, New York, N. Y. Filed Sept. 21, 1927.



For Jewelry for Personal Use or Adornment Consisting of Finger Rings, Earrings, Bracelets, Pendants, Necklaces, Watch Bracelets, Bags, Brooches, Buckles, Bar Pins, Cuff Links, Lorgnettes, Studs, Scarfpins, Hatpins, Vest Buttons, and Handy Pins All Made of or Plated with Precious Metal.
Claims use since Nov. 1, 1926.

Ser. No. 259,450. KLEBANOFF & GROSSMAN, New York, N. Y. Filed Dec. 29, 1927.

K-G

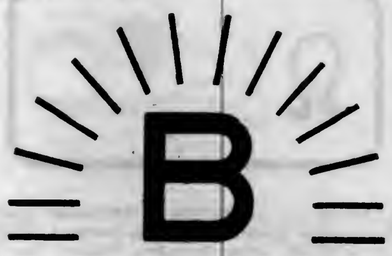
For Jewelry for Personal Wear, Not Including Watches.
Claims use since 1924.

Ser. No. 259,784. SILBERMANN, KOHN & WALLENSTEIN INC., New York, N. Y. Filed Jan. 6, 1928.

SK

For Jewelry for Personal Wear, Not Including Watches.
Claims use since Jan. 3, 1928.

Ser. No. 261,858. S. BUCHSBAUM & Co., Chicago, Ill. Filed Feb. 18, 1928.



For Finger Rings, Bar Pins, Brooches, Bracelets, Necklaces, and Clips Made of or Plated with Precious Metal Generally Used for Carrying Folded Paper Money.
Claims use since 1888.

Ser. No. 262,941. SPEIDEL BROS., Providence, R. I. Filed Mar. 10, 1928.

SPECIALFLEX

For Bracelets; Chains for Personal Adornment Consisting of Neck Chains, Watch Chains, and Key Chains; and Metal Elastic Bands for Bracelets and the Like Which are Made Wholly or Partly of Precious Metal.
Claims use since Mar. 3, 1928.

Ser. No. 263,158. KAUFMAN & RUDERMAN CO. INC., New York, N. Y. Filed Mar. 14, 1928.

KARU

For Earrings, Finger Rings, Anklets, Bar Pins, Brooches, Pendants, Strings of Beads, Strings of Pearls, Bracelets, and Rhinestones.
Claims use since Feb. 1, 1928.

Ser. No. 263,906. S. WECHTER COMPANY, Chicago, Ill. Filed Mar. 28, 1928.

RING O' HAPPINESS

No claim is made to the word "Ring" alone.
For Finger Rings.
Claims use since Mar. 17, 1928.

Ser. No. 266,221. SHUTTLES BROS. & LEWIS, Dallas, Tex. Filed May 10, 1928.

LINK-O-LOVE

For Finger Rings of Precious Metal.
Claims use since Apr. 1, 1928.

Ser. No. 266,451. ALPHA DELTA THETA, Brooklyn, N. Y. Filed May 16, 1928.

ΔΑΘ

For Sorority Pins, Badges, Charms, Finger Rings, Lapel Buttons, Cuff Links, Tie Clasps, and Belt Buckles, All Made of or Plated with Precious Metal.
Claims use since Nov. 10, 1921.

Ser. No. 266,457. COHN & ROSENBERGER, INC., New York, N. Y. Filed May 16, 1928.

GOLDEN DAWN

For Pearls, Necklaces, Bracelets, Earrings, Finger Rings, Brooches, Bar Pins, and Ornamental Hatpins, and Pins for Dress Ornaments, Ornamental Pins and Buckles for Decorating Hats, Ornamental Shoe Buckles, and Hair Ornaments, Made Wholly or in Part of or Plated with Precious Metal.
Claims use since Mar. 1, 1928.

Ser. No. 266,694. UNCAS MANUFACTURING COMPANY, Providence, R. I. Filed May 19, 1928.

CRYSTOGEM

For Key Rings, Chain Fasteners, Snap Fasteners, Spring Rings, Tie Clasps, Lapel Buttons, Brooches, and Chain Bars All of Which are Made of or Plated with Precious Metals, Finger Rings, Chains for Personal Adornment, Bracelets, Cuff Buttons, Cuff Links, Charms, Fobs and Pendants.
Claims use since Dec. 1, 1927.

Ser. No. 266,913. COHN & ROSENBERGER, INC., New York, N. Y. Filed May 24, 1928.

RIO RITA

For Pearls, Necklaces, Bracelets, Earrings, Finger Rings, Brooches, Bar Pins, and Ornamental Hatpins, and Pins for Dress Ornaments, Ornamental Pins and Buckles for Decorating Hats, Ornamental Shoe Buckles, and Hair Ornaments Made Wholly or in Part of or Plated with Precious Metal.
Claims use since Mar. 1, 1927.

CLASS 31.

Filters and Refrigerators.

Ser. No. 262,961. ICELESS COOLER CORPORATION, Chicago, Ill. Filed Mar. 10, 1928.

STANDARD ENDURO

No claim is made to the word "Standard" apart from the mark as shown on the drawing.
For Ice-Cream Cabinets.
Claims use since Jan. 15, 1928.

CLASS 32.

Furniture and Upholstery.

Ser. No. 258,458. THE BUCKSTAFF COMPANY, Oshkosh, Wis. Filed Dec. 5, 1927.

KIDDYSET

For Children's Chairs, Tables, and Rocking Chairs.
Claims use since Nov. 1, 1927.

Ser. No. 258,459. THE BUCKSTAFF COMPANY, Oshkosh, Wis. Filed Dec. 5, 1927.



For Children's Chairs, Tables, and Rocking Chairs.
Claims use since Nov. 1, 1927.

Ser. No. 261,636. JOHNSON-HANDLEY-JOHNSON COMPANY, Grand Rapids, Mich. Filed Feb. 13, 1928.

DYNAMIQUE

For Wooden Household Furniture—Namely, Beds, Dressers, Chiffoniers, Toilet Tables, Night Tables, Chairs, Benches, Buffet Tables, Cabinets, Bookcases, Occasional Tables and Chairs, Sofas, End Tables, Desks, and Card Tables.
Claims use since Jan. 2, 1928.

Ser. No. 265,179. WEIGL FURNITURE COMPANY, Chicago, Ill. Filed Apr. 20, 1928.



For Davenport Beds.
Claims use since Aug. 27, 1927.

Ser. No. 266,750. STANLEY E. RAUH, New York, N. Y. Filed May 21, 1928.

TRANS-RAY

For Mirrors.
Claims use since Apr. 2, 1928.

CLASS 33.

Glassware.

Ser. No. 266,952. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Filed May 24, 1928.



The words "Vista Plate" and the numeral "⅛" and the two parallel lines below the hands and the outline of the angularly-positioned plate are in blue. The wording other than the word "Vista" and the representation of the sheet of glass are disclaimed apart from the mark shown.
For Plate Glass.
Claims use since May 5, 1928.

Ser. No. 267,899. NAAMLOOZE VENNOOTSCHAP GLASFABRIEK "LEERDAM," V. H. JERKEL, MIJNSSEN & CO., Leerdam, Netherlands. Filed June 12, 1928.



For All Kinds of Glass and Glassware.
Claims use since May 1, 1923.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 264,018. GEORGE M. CORAM, doing business as coram Brothers, Utica, N. Y. Filed Mar. 30, 1928.

MOONLITE

For Pocket and Hand Lamp Utilizing Luminous Substances.
Claims use since Nov. 18, 1926.

Ser. No. 264,107. HOLLAND FURNACE COMPANY, Holland, Mich. Filed Mar. 31, 1928.

VAPORAIRE

For Coal, Coke, Wood, Fuel Oil, and Gas Furnaces.
Claims use since Feb. 17, 1928.

Ser No. 264,626. THE WILLIAMSON HEATER COMPANY, Cincinnati, Ohio. Filed Apr. 9, 1928.

SPEE-DEE-HEET

For Electrically-Driven Air-Circulating Units for Warm-Air Furnaces.
Claims use since November, 1927.

Ser. No. 266,146. THE NAPIER CO., Meriden, Conn. Filed May 9, 1928.

INTERNATIONAL

For Pyrophoric Pocket Lighters.
Claims use since Apr. 28, 1928.

CLASS 35.

Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 194,953. JORDAN C. SKINNER, doing business as Skinner Boot & Reliner Company, Dayton, Ohio. Filed Apr. 3, 1924.



"Red Devil" Boots

No claim is made to the word "Boots" apart from the mark here shown.
For Boots and Reliners for Pneumatic Tires.
Claims use since September, 1921.

Ser. No. 264,815. THE FITZGERALD MANUFACTURING COMPANY, Torrington, Conn. Filed Apr. 14, 1928.



No claim is made to the words "Fitz-Rite" apart from their use in connection with the entire trade-mark.
For Sheet Packing.
Claims use since Dec. 1, 1927.

Ser. No. 267,353. CORDUROY TIRE COMPANY, Grand Rapids, Mich. Filed June 2, 1928.

Wolverine

For Automobile Tires and Inner Tubes.
Claims use since August, 1927.

Ser. No. 267,450. PENNSYLVANIA RUBBER COMPANY OF AMERICA, Jeannette, Pa. Filed June 4, 1928.

SYLVAN

For Pneumatic Vehicle Tires.
Claims use since May 5, 1928.

CLASS 36.

Musical Instruments and Supplies.

Ser. No. 263,083. THE FRED. GRETSCH MFG. CO., New York, N. Y. Filed Mar. 13, 1928. Under 10-year proviso.



The Turkish words shown in the drawing translated read "Cymbal Manufacturers Constantinople Kroupe Zildjian Company."
For Cymbals.
Claims use since about 1603.

Ser. No. 265,253. HARRY BETTONEY, doing business as Cundy-Bettoney Company, Boston, Mass. Filed Apr. 23, 1928.

BOSTON WONDER

For Clarinets and Brass-Wind Musical Instruments.
Claims use since Jan. 1, 1927.

Ser. No. 266,524. GIBSON, INC., Kalamazoo, Mich. Filed May 17, 1928.

Trujo

For Banjos.
Claims use since Dec. 19, 1927.

Ser. No. 267,179. ALUMINUM SPECIALTY CO., Atlanta, Ga. Filed May 29, 1928.

BONA-PHONIC

For Phonographs.
Claims use since Apr. 1, 1928.

Ser. No. 267,391. ALOIS B. SALIGER, New York, N. Y. Filed June 2, 1928.

PSYCHO-PHONE

For Automatically - Repeating Time - Clock - Controlled Talking Machines.
Claims use since June 1, 1927.

CLASS 37.

Paper and Stationery.

Ser. No. 259,786. ABC SERVICE, Chicago, Ill. Filed Jan. 7, 1928.

abc SERVICE

No claim is made to the word "Service" apart from the mark as shown.
For Partially-Printed Forms for Secretarial Papers, Forms for Accountants, Papers, and Report Forms, Invoice Forms, Memorandum Pads, File Wrappers, Office Filing Folders, Note Paper, Letter Paper, Mailing Envelopes, Hand Blotters, and Desk Blotters.
Claims use since Apr. 1, 1925.

Ser. No. 265,387. A. KICKBUSCH GROCERY COMPANY, Wausau, Wis. Filed Apr. 25, 1928.

VANITY

For Toilet Paper and Writing Tablets.
Claims use since January, 1918.

CLASS 38.

Prints and Publications.

Ser. No. 264,253. NORTH GERMAN LLOYD, New York, N. Y. Filed Apr. 3, 1928.

THE SEVEN SEAS

For Illustrated Monthly Magazines.
Claims use since Mar. 25, 1928.

Ser. No. 264,794. KENNELL-ELLIS STUDIOS, Salem, Oreg. Filed Apr. 14, 1928.

THE NEW! RADIANT FINISH

The words "The New Finish" are disclaimed apart from the mark shown.
For Photo Prints.
Claims use since Dec. 10, 1927.

Ser. No. 265,344. PRACTICAL PUBLICATIONS, INC., Indianapolis, Ind. Filed Apr. 24, 1928.

Industrial Woodworking

For Trade-Journal Published Monthly.
Claims use since Nov. 1, 1927.

Ser. No. 266,270. B. F. PROVANDIE, Chicago, Ill. Filed May 11, 1928.

Campus Pictorial

For Newspaper Supplements.
Claims use since May 1, 1928.

Ser. No. 266,645. BURROUGHS ADDING MACHINE COMPANY, Detroit, Mich. Filed May 19, 1928.

The Burroughs Clearing House

For Publication Issued Periodically.
Claims use since October, 1916.

Ser. No. 266,705. BANKERS LIFE COMPANY, Des Moines, Iowa. Filed May 21, 1928.



W-H-O

For Weekly Radio Program.
Claims use since July 1, 1924.

Ser. No. 266,734. THE JACOBSEN PUBLISHING COMPANY, Chicago, Ill. Filed May 21, 1928.

Shoe Styles

For a Department or Section of a Magazine.
Claims use since on or about Mar. 28, 1925.

Ser. No. 266,781. RAYMOND O. BARTELLS, Milwaukee, Wis. Filed May 22, 1928.

Advertising & Selling IDEAS

For a Periodical.
Claims use since on or about Dec. 10, 1927.

Ser. No. 266,973. J. GODDARD BROWN, Boston, Mass. Filed May 25, 1928.

Smart Shoes

For Publication Issued Intermittently.
Claims use since May 21, 1928.

Ser. No. 267,029. THE BERGER MANUFACTURING COMPANY, Canton, Ohio. Filed May 26, 1928.

BERLOYALIST

For a Monthly Publication.
Claims use since May 1, 1928.

Ser. No. 267,133. DAVID M. LEA & COMPANY, INC., Richmond, Va. Filed May 28, 1928.

Pack-Kinks

For Monthly Publication.
Claims use since Apr. 26, 1928.

Ser. No. 267,189. THE EXCLUSIVE DISTRIBUTORS' ASSOCIATION, Columbus, Ohio. Filed May 29, 1928.

The Exclusive Distributor

For Periodical Publication.
Claims use since May 14, 1928.

Ser. No. 267,211. PRICE CURRENT-GRAIN REPORTER, Chicago, Ill. Filed May 29, 1928.

GRAIN WORLD

For Periodical Published Every Other Week.
Claims use since on or about May 9, 1928.

Ser. No. 267,266. MIDWEST PUBLISHING CO., Appleton, Wis. Filed May 31, 1928.

POULTRY FARMER

For Publication Issued from Time to Time.
Claims use since February, 1923.

Ser. No. 267,269. NASH-BREYER MOTOR COMPANY, Los Angeles, Calif. Filed May 31, 1928.

The NASH NEWS

For Monthly Magazine.
Claims use since June, 1926.

Ser. No. 267,328. THE WASHINGTON PLANOGRAPH COMPANY, INC., Washington, D. C. Filed June 1, 1928.

planoprinting

For House Organ Issued Periodically.
Claims use since Apr. 1, 1928.

Ser. No. 267,373. MORRIS MINKUS, New York, N. Y. Filed June 2, 1928. Under 10-year proviso.

LILIPUT

For Dictionaries, Bibles, and Classics.
Claims use since 1882.

Ser. No. 267,443. THE NATIONAL PROVISIONER, INC., New York, N. Y. Filed June 4, 1928.

Daily Market Service

For a Periodical Publication Published at the Present Time Daily with the Exception of Saturdays, Sundays, and Holidays.
Claims use since Aug. 11, 1924.

Ser. No. 267,548. EXPERIMENTER PUBLISHING COMPANY, INC., New York, N. Y. Filed June 6, 1928.

YOUR BODY

For Quarterly Publication.
Claims use since Oct. 16, 1926.

Ser. No. 267,550. EXPERIMENTER PUBLISHING COMPANY, INC., New York, N. Y. Filed June 6, 1928.

1001 RADIO QUESTIONS AND ANSWERS

For Annual Publication.
Claims use since May 28, 1926.

Ser. No. 267,552. EXPERIMENTER PUBLISHING COMPANY, INC., New York, N. Y. Filed June 6, 1928.



For Semimonthly Publication.
Claims use since June 4, 1928.

CLASS 39.

Clothing.

Ser. No. 241,613. A. H. GEUTING COMPANY, Philadelphia, Pa. Filed Dec. 17, 1926.



For Shoes Composed of Leather or Textile Fabric.
Claims use since Oct. 27, 1926.

Ser. No. 257,487. STERLING SHOES CORPORATION, Buffalo, N. Y. Filed Nov. 12, 1927.

Fatigue Resisters

For Shoes of Leather, Fabric, and Combinations of Leather and Fabric.
Claims use since about Oct. 1, 1926.

Ser. No. 257,541. HAMILTON, BROWN SHOE COMPANY, St. Louis, Mo. Filed Nov. 14, 1927.



No claim is made to the word "Genuine."
For Men's, Women's, and Children's Fabric, Leather, and Felt High and Low Shoes.
Claims use since Oct. 15, 1927.

Ser. No. 258,931. SHAFT-PIERCE SHOE CO., Faribault, Minn. Filed Dec. 14, 1927.

The Clara Barton Shoe

No claim is made to the word "Shoe" apart from the trade-mark as shown on the drawing.
For Shoes Made from Leather, Fabric, Rubber, and Rubber Compositions and Combinations of These Materials.
Claims use since Oct. 28th, 1927.

Ser. No. 260,138. ANDRE PERUGIA, Paris, France. Filed Jan. 14, 1928.

André Perugia

The trade-mark shown is a facsimile of applicant's signature.
For Boots and Shoes.
Claims use since 1923.

Ser. No. 262,448. ARE DEL MONTE & CO., INC., New York, N. Y. Filed Mar. 1, 1928.



For Ladies' Hats.
Claims use since Jan. 17, 1928.

Ser. No. 262,542. THE CHARLES H. SCOTT COMPANY, Chicago, Ill., and New York, N. Y. Filed Feb. 29, 1928.

CORSABELT

For a Combination Corset Garment Made by Uniting the Health Belt So-Called and Brassière.
Claims use since June 30, 1926.

Ser. No. 263,277. I. MILLER AND SONS, INCORPORATED, Long Island City, N. Y. Filed Mar. 16, 1928.

I. MILLER Beautiful Hosiery

Applicant owns Registration No. 179,272. Applicant disclaims "Beautiful Hosiery" apart from the mark as shown.
For Women's and Girls' Hosiery Made of Knitted or Netted Material.
Claims use since February, 1914.

Ser. No. 263,819. GOESSLING AND FERRE, INC., New York, N. Y. Filed Mar. 27, 1928.

A. Marcadanti

The trade-mark is in the form of a facsimile signature of Mr. A. Marcadanti.
For Washable Suede Gloves.
Claims use since Mar. 16, 1928.

Ser. No. 264,320. I. NEWMAN & SONS, INC., New York, N. Y. Filed Apr. 4, 1928.

TRANSFORMATION

For Corsets, Corset and Brassière Combinations, and Brassières.
Claims use since Feb. 8, 1928.

Ser. No. 264,692. MAGNET KNITTING MILLS, Clinton, Tenn. Filed Apr. 11, 1928.



The drawing shows the trade-mark with the conventional lining for colors, because the labels filed show colors. Color, however, is not an essential feature of the mark, and no claim for registration is made herein for the mark so colored.
For Men's, Women's, and Children's Hosiery.
Claims use since Dec. 22, 1922.

Ser. No. 264,698. ALBERT ROSENBLATT & SON, INC., New York, N. Y. Filed Apr. 11, 1928.

RASPBAY

For Women's, Misses', and Children's Dresses.
Claims use since Apr. 2, 1928.

Ser. No. 264,722. HOOVER MFG. CO., New York, N. Y. Filed Apr. 12, 1928.

HOOVERCRAFT

For Smocks, Gowns, Dresses, Coats, Sweaters, Uniforms, Aprons; Dress, Negligee, and Sport Shirts; Collars, Caps, Pants, Stockings, and Caps of Textile Material for Outer Wear for Barbers, Manicurists, Cooks, Physicians, Dentists, Nurses, Waiters, Waitresses, Housewives.
Claims use since Feb. 1, 1928.

Ser. No. 265,068. ABRAHAM RUBIN, San Francisco, Calif. Filed Apr. 18, 1928.

Miss California

For Ladies', Misses', Children's Hats.
Claims use since Mar. 15, 1927.

Ser. No. 265,078. WEINGARTEN BROS., INC., New York, N. Y. Filed Apr. 18, 1928.

Miss-Behave

For Women's Undergarments—Namely, Brassières, Corset-Brassières, Corsets, Girdles, and Corselets.
Claims use since Apr. 1, 1928.

Ser. No. 265,099. THE DRAPER-MAYNARD COMPANY, Plymouth, N. H. Filed Apr. 19, 1928.

Gray Streak

For Basketball Shoes Made of Rubber and Canvas.
Claims use since January, 1927.

Ser. No. 265,310. WILBUR M. ALLING, doing business as W. M. Alling, New York, N. Y. Filed Apr. 24, 1928.

SATISFACTION
Sox

No claim is made to the exclusive use of the word "Sox" apart from the mark as shown in the drawing without, however, waiving applicant's common-law right to the use of this word to form his complete mark.
For Hosiery.
Claims use since July 10, 1913.

Ser. No. 265,371. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y. Filed Apr. 25, 1928.

NO-MARK

For Rubber Soles and Heels and Rubber Footwear Consisting of Tennis or Other Athletic Shoes, Arctics, Overshoes or Rubbers and Boots.
Claims use since Apr. 18, 1928.

Ser. No. 265,492. NEW PROCESS COMPANY, Warren, Pa. Filed Apr. 27, 1928.

"Necktie-a-Month" Club

The word "Necktie" is hereby disclaimed apart from the mark as shown on the drawing.
For Neckties.
Claims use since June, 1927.

Ser. No. 265,806. REGATTA MANUFACTURING COMPANY, INC., Baltimore, Md. Filed May 2, 1928.

Regatta
RIP-PROOF

Reserving common-law and statutory rights, applicant disclaims "Rip-Proof" per se apart from the mark shown.
For Athletic Underwear Composed Mainly of Textile Fabric for Men, Boys, and Children.
Claims use since Dec. 1, 1927.

Ser. No. 266,089. MCCALLUM HOSIERY COMPANY, Northampton, Mass. Filed May 8, 1928.

Avia

For Hosiery.
Claims use since about Mar. 19, 1928.

Ser. No. 266,328. PECK & PECK, New York, N. Y. Filed May 12, 1928.

SILKEN SNARE

No claim is made to the exclusive right to the use of the term "Silken" apart from the mark shown.
For Hosiery.
Claims use since January, 1928.

Ser. No. 266,399. PHILLIPS PATENTS LIMITED, London, England. Filed May 14, 1928.

DURATA

For Soles and Heels for Boots and Shoes.
Claims use since Apr. 16, 1928.

Ser. No. 266,462. GOOD VALUE HAT & CAP CO., INC., New York, N. Y. Filed May 16, 1928.



For Children's Hats and Caps.
Claims use since Mar. 15, 1928.

Ser. No. 266,552. THE OCEAN BATHING SUIT CO., New York, N. Y. Filed May 17, 1928.

SUNBACK

For Bathing Suits.
Claims use since on or about Dec. 13, 1926.

Ser. No. 266,558. ROBERT REIS & CO., New York, N. Y. Filed May 17, 1928.

JIMDRAWER

For Running Pants or Shorts.
Claims use since Apr. 25, 1928.

Ser. No. 266,873. FRANCES H. MORRISON, Tampico, Mexico. Filed May 23, 1928.

PANCHITA

For Brassières, Camisoles, and Corsets.
Claims use since May 10, 1928.

Ser. No. 266,957. LOUIS J. STERN, New York, N. Y. Filed May 24, 1928.

Certified
BRAND
Hosiery

No rights are asserted to the use of the words "Brand" and "Hosiery" apart from the mark as shown in the drawing.
For Hosiery.
Claims use since Feb. 15, 1927.

Ser. No. 266,966. L. BAMBERGER & COMPANY, Newark, N. J. Filed May 25, 1928.

Gabrielle

For Millinery, Comprising Women's, Misses', and Children's Hats.
Claims use since May 17, 1928.

Ser. No. 267,002. FREDERICK LOESER AND CO., Brooklyn, N. Y. Filed May 25, 1928.

NARCISSE

For Women's, Misses', and Children's Dresses.
Claims use since Mar. 1, 1928.

Ser. No. 267,059. KANRICH & FEINER, New York, N. Y. Filed May 26, 1928.

Swagger

For Ladies' Hats.
Claims use since Nov. 1, 1927.

Ser. No. 267,134. P. H. LUTHER, Los Angeles, Calif. Filed May 28, 1928.



For Ladies' Hats of Silk Material, Ladies' Hats of Velvet Material, Ladies' Hats of Straw Material, Ladies' Feather Hats, Ladies' Ribbon Hats, Ladies' Hats of Felt Material, and Ladies' Hats of Satin Material, and Ladies' Hats Made of Combinations of Any and All of the Following Materials: Velvet, Straw, Feathers, Ribbon, Felt, and Satin; and Misses' Hats of Silk Material, Misses' Hats of Velvet Material, Misses' Hats of Straw Material, Misses' Hats of Felt Material, Misses' Feather Hats, Misses' Ribbon Hats, Misses' Hats of Satin Material, and Misses' Hats Made of Combinations of Any and All of the Following Materials: Silk, Velvet, Straw, Feathers, Ribbon, Felt, and Satin.
Claims use since Jan. 10, 1926.

CLASS 40.

Fancy Goods, Furnishings, and Notions.

Ser. No. 264,171. LAING HARRAR & CHAMBERLIN, INC., Philadelphia, Pa. Filed Apr. 2, 1928.

BLU-TEMP

For Steel Shoe Horns.
Claims use since Jan. 3, 1928.

Ser. No. 264,825. I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Apr. 14, 1928. Under 10-year proviso.



The Gem.

For Dress Shields.
Claims use since 1890.

Ser. No. 265,379. FRANK W. GORSE CO., Needham, Mass. Filed Apr. 25, 1928.



For Covered Rubber Thread.
Claims use since 1893.

CLASS 42.

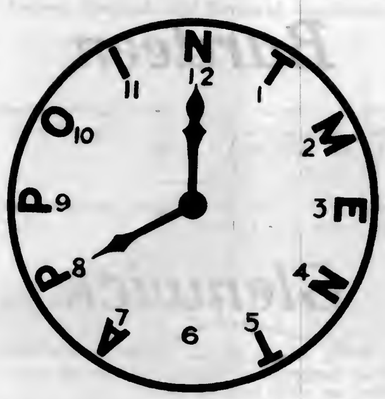
Knitted, Netted, and Textile Fabrics.

Ser. No. 257,987. LORRAINE MANUFACTURING COMPANY OF NEW YORK, INC., New York, N. Y. Filed Nov. 23, 1927.

TRUE KOOL

The word "Kool" is disclaimed apart from the mark shown in the drawing.
For Textiles of Cotton in the Piece.
Claims use since Nov. 1, 1927.

Ser. No. 258,226. GOLDBERG & VAN PRAAG, New York, N. Y. Filed Nov. 30, 1927.



For Handkerchief.
Claims use since Feb. 4, 1927.

Ser. No. 263,731. ALBERT D. SMITH & CO., New York, N. Y. Filed Mar. 24, 1928.

CAPITOL SHADING

The trade-mark consists of the words "Capitol Shading." No claim is made to the exclusive use of the word "Shading" apart from the mark as shown in the drawing.
For Cotton Piece Goods and Shade Cloth.
Claims use since about January, 1893.

Ser. No. 265,072. STEHLISILKS CORPORATION, New York, N. Y. Filed Apr. 18, 1928.

Dracino

For Silk Piece Goods.
Claims use since Feb. 4, 1928.

Ser. No. 265,073. STEHLISILKS CORPORATION, New York, N. Y. Filed Apr. 18, 1928.

LAV

For Silk Piece Goods.
Claims use since Feb. 29, 1928.

Ser. No. 266,237. JOHN BOYLE & COMPANY, INCORPORATED, New York, N. Y. Filed May 11, 1928.

ASTRILD

For Cotton Duck.
Claims use since June 16, 1927.

Ser. No. 266,309. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed May 12, 1928.

Suprema

For Woolen Piece Goods.
Claims use since Apr. 1, 1928.

Ser. No. 266,310. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed May 12, 1928.

Majora

For Woolen Piece Goods.
Claims use since Apr. 1, 1928.

Ser. No. 266,897. SUSQUEHANNA SILK MILLS, New York, N. Y. Filed May 23, 1928.

Ramadan

For Silk Piece Goods.
Claims use since Jan. 18, 1928.

Ser. No. 267,145. M. H. ROGERS, INC., New York, N. Y. Filed May 28, 1928.

"Magic"

For Textile Washable Rugs.
Claims use since about Feb. 15, 1928.

Ser. No. 267,173. PETER K. WILLIAMS, Columbus, Ohio. Filed May 28, 1928.



No claim is made to the representation of the mitten apart from the other features of the mark as shown on the drawing.
For Wash Mitten of Textile Material.
Claims use since about Mar. 25, 1928.

Ser. No. 267,175. ISIDORE ZYSMAN, doing business as Silwo Silk Co., New York, N. Y. Filed May 28, 1928.

SIL-GLO

For Silk and Silk and Cotton and Silk and Wool Mixture Fabrics in the Piece.
Claims use since May 15, 1928.

Ser. No. 267,186. DU PONT RAYON COMPANY, Buffalo, N. Y. Filed May 29, 1928.

DU PONT RAYON

RAYCELLA

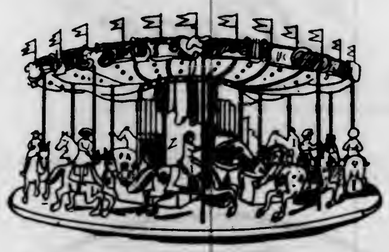
No claim is made to the word "Rayon" apart from the mark shown.

For Knitted and Woven Piece Goods of Cellulose Acetate Yarns, Threads, and Filaments.

Claims use since Apr. 27, 1928.

Ser. No. 267,534. CARSON PIRIE SCOTT & CO., Chicago, Ill. Filed June 6, 1928.

MERRY GO ROUND



For Cotton Piece Goods.

Claims use since about July 15, 1926.

Ser. No. 267,747. CHENEY BROTHERS, South Manchester, Conn. Filed June 9, 1928.

Rondulay

For Woven, Knitted, Netted, Textile and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.

Claims use since Feb. 23, 1928.

Ser. No. 267,748. CHENEY BROTHERS, South Manchester, Conn. Filed June 9, 1928.

Chenmere

For Woven, Knitted, Netted, Textile and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.

Claims use since May 5, 1928.

Ser. No. 267,749. CHENEY BROTHERS, South Manchester, Conn. Filed June 9, 1928.

Burdeen

For Woven, Knitted, Netted, Textile and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.

Claims use since May 31, 1928.

Ser. No. 267,750. CHENEY BROTHERS, South Manchester, Conn. Filed June 9, 1928.

Glenwick

For Woven, Knitted, Netted, Textile and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.

Claims use since Dec. 14, 1927.

Ser. No. 267,751. CHENEY BROTHERS, South Manchester, Conn. Filed June 9, 1928.

Chenworthy

For Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.

Claims use since Jan. 6, 1928.

Ser. No. 267,752. CHENEY BROTHERS, South Manchester, Conn. Filed June 9, 1928.

Ligela

For Woven, Knitted, Netted, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.

Claims use since Aug. 3, 1927.

CLASS 43.

Thread and Yarn.

Ser. No. 267,187. DU PONT RAYON COMPANY, Buffalo, N. Y. Filed May 29, 1928.

DU PONT RAYON

RAYCELLA

No claim is made to the word "Rayon" apart from the mark shown.

For Cellulose-Acetate Yarns, Threads, and Filaments.

Claims use since Apr. 27, 1928.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 248,270. ARROWSMITH MANUFACTURING COMPANY, New York, N. Y. Filed May 2, 1927.

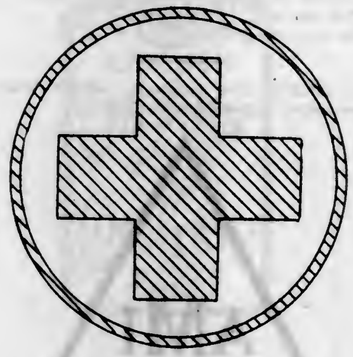


Applicant claims ownership of registration No. 59,057, covering the representation shown on the drawing.

For Supports for the Arches and Other Parts of the Feet.

Claims use since 1901.

Ser. No. 255,119. E. F. MAHADY COMPANY, Boston, Mass. Filed Sept. 23, 1927.



The drawing is lined to indicate the color green.

For Medical and Surgical Instruments, Apparatus, and Parts Thereof—Namely, Adhesive Plaster; Air Bags, Water Bottles, and Syringes for Surgical and Invalid Use; Alcohol Lamps for Thermo-Cautery; Aluminum Bronze Wire for Surgical Use; Laboratory and Operating Aprons, Arch Supporters, Artificial Limbs, Audiphones, Laboratory Incubators, Baby Incubators, Surgical Bath Cabinets, Surgical Batteries, Invalids' Beds, Tables for Invalid Beds, Invalids' Chairs, Surgical Cushions, Stretchers, Human Bones Articulated and Disarticulated, Trusses, Crutches, Spinal Corsets, Surgical Dressings, Surgical Silver Foil, Oxygen-Gas Apparatus, Surgeons' Rubber Gloves, Surgical Lamb's Wool, Bone Nails, Clinical Thermometers, Aseptic Towels, Electric-Physiotherapy Apparatus, Surgeons' and Nurses' Operating Apparel, Blood-Pressure Apparatus, Instrument and Dressing Sterilizers, Breast Pumps, First-Aid Kits, Tubes and Tubing for Medical and Surgical Use; Metabolism Apparatus, Electro-Cardiographs, Spirometers.

Claims use since April, 1921.

Ser. No. 264,653. A. J. REACH COMPANY, Philadelphia, Pa. Filed Apr. 10, 1928.

THE SIGN OF QUALITY

REACH

For Wrist and Ankle Supporters, Athletic Supporters (Elastic and Aluminum), and Bandages (Elastic).

Claims use since June 1, 1907.

Ser. No. 265,503. SANITARIUM EQUIPMENT COMPANY, Battle Creek, Mich. Filed Apr. 27, 1928.

SOLARC

For Therapeutic Lamps.

Claims use since about Apr. 18, 1927.

Ser. No. 265,591. AUGUSTUS G. VINING, Atlanta, Ga. Filed Apr. 28, 1928.

E-RAM-ESE

For Prophylactic Rubber Articles for Prevention of Contagious Diseases.

Claims use since June 30, 1926.

Ser. No. 265,817. UNIVERSAL DENTAL COMPANY, Philadelphia, Pa. Filed May 2, 1928.

NUFORM TEETH

UNIVERSAL DENTAL CO.

PHILADELPHIA PENNA. U.S.A.

All the wording and the representation of a tooth are disclaimed apart from the mark shown on the drawing.

For Artificial Teeth.

Claims use since December, 1920.

Ser. No. 266,028. IDA GUSSAROFF, doing business as The I-D-A Health-O-Gram Co. (Not Inc.). Grand Rapids, Mich. Filed May 7, 1928.

SUPER I-D-A HEALTH-O-GRAM

For Electric Health Appliance Belts.
Claims use since Mar. 16, 1928.

Ser. No. 266,748. PREMIER CUTLERY, INC., New York, N. Y. Filed May 21, 1928.

PREMALITE

For Manicure Sets, Manicure Implements, and Parts Thereof.
Claims use since Apr. 27, 1928.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 265,176. UNITED GRAPE PRODUCTS, INC., Buffalo, N. Y. Filed Apr. 20, 1928.

Grape Ola

Applicant claims ownership of registered trade-mark certificates; No. 105,840 issued Aug. 24, 1915; No. 133,685 issued Aug. 3, 1920; No. 134,504 issued Sept. 7, 1920; No. 134,505 issued Sept. 7, 1920, and No. 157,907 issued Aug. 22, 1922.
For Grape Syrup for Flavoring Beverages and Foods.
Claims use since Aug. 1, 1910.

Ser. No. 265,562. WILLIAM S. RAEF, doing business as Star Bottling Co., Dallas, Tex. Filed Apr. 28, 1928.

Happiwine NON-ALCOHOLIC THE DRINK THAT CHEERS

No claim is made to the words "The Drink That Cheers" and "Non-Alcoholic" apart from the mark as shown on the drawing.
For a Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink and Sirup and Extract for Making the Same.
Claims use since Nov. 1, 1927.

Ser. No. 265,609. DR. V. A. AVAKIAN COMPANY, Chattanooga, Tenn. Filed Apr. 30, 1928.

KON-YAK

For Noncereal, Maltless Beverages.
Claims use since July 13, 1926.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 238,329. M. J. & H. J. MEYER CO., New York, N. Y. Filed Oct. 8, 1926.

l'Appetit

For Canned Sardines, Mushrooms, Anchovies, Peppers, Peas, Fish Roe.
Claims use since 1911.

Ser. No. 249,255. THE AUTOMATIC MERCHANDIZER INC., Boston, Mass. Filed May 20, 1927.

AMI MERCHANDIZER

For Chocolate in Bar Form.
Claims use since Mar. 1, 1927.

Ser. No. 250,544. ITALIAN FOOD PRODUCTS CO. INC., Long Beach, Calif. Filed June 15, 1927.

CAMPANIA

For Tomato Paste.
Claims use since Aug. 18, 1923.

Ser. No. 251,237. NEW YORK CANNERS, INC., Rochester, N. Y. Filed June 28, 1927.

FLAG

The mark shown consists of the word "Flag" associated with picture of the flag of the New York Canners, Inc.
For Canned Fruits, Canned Vegetables, Ketchup, Chili Sauce, and Fruit Preserves.
Claims use since Apr. 7, 1893.

Ser. No. 251,623. LINCOLN CHOCOLATE AND CONFECTIONARY COMPANY, Philadelphia, Pa. Filed July 7, 1927.

LINCOLN CHERRY COCKTAIL

No claim is made to the word "Cherry" except in connection with the other features of the mark.
For Candy Bars.
Claims use since May 1, 1927.

Ser. No. 254,907. THE FRANK TEA & SPICE CO., Cincinnati, Ohio. Filed Sept. 19, 1927.

JUMBO

For Spices, Peanut Butter, Pepper Sauce, Food-Flavoring Extract, and Prepared Mustard.
Claims use since 1908.

Ser. No. 257,911. ZINSMASTER BREAD COMPANY, Duluth, Minn. Filed Nov. 21, 1927.

Master Baked by Zinsmaster

All wording except "Master" is disclaimed apart from the mark as shown in the drawing.
For Cakes, Bread, Rolls, and Doughnuts.
Claims use since June 6, 1927.

Ser. No. 258,599. SHELLABARGER MILLS & ELEVATOR COMPANY, doing business as Shellabarger Mills, Salina, Kans. Filed Dec. 7, 1927.

1776

The lining on the drawing is for shading.
For Wheat Flour.
Claims use since Oct. 21, 1927.

Ser. No. 260,269. GRIFFITH-DURNEY CO., San Francisco, Calif. Filed Jan. 18, 1928.

Quaker

For Canned Fish.
Claims use since March, 1901.

Ser. No. 262,404. JORDAN FOODS INC., also doing business as Jordan Ind., Chicago, Ill. Filed Feb. 29, 1928.

Schlenkert's



Pumpernickel

The words "Pumpernickel" and "Schlenkert's" do not form a part of the mark shown in the drawing.

For Pumpernickel Bread.

Claims use since Nov. 25, 1927.

Ser. No. 262,566. THE C. KALBITZER PACKING CO., doing business as The Market Basket, Wheeling, W. Va. Filed Mar. 3, 1928.



The phrase "Fill your basket without emptying your pocketbook" is disclaimed apart from the rest of the mark.

For Coffee.

Claims use since Feb. 4, 1928.

Ser. No. 263,167. THE MIRROR, New York, N. Y. Filed Mar. 14, 1928.

MIRROR

For Candies, Bonbons, Pastry, Cakes, Cookies, Crackers, Sandwiches, Biscuits; Nuts, Including Shelled, Unshelled, Salted, Fresh, and Candied Nuts; Ice Cream, Hot Chocolate, and Malted Milk.

Claims use since Oct. 15, 1896.

Ser. No. 263,169. THE MIRROR, New York, N. Y. Filed Mar. 14, 1928.



For Candies, Bonbons, Pastry, Cakes, Cookies, Crackers, Sandwiches, Biscuits; Nuts, Including Shelled, Unshelled, Salted, Fresh, and Candied Nuts; and Ice Cream, Hot Chocolate, and Malted Milk.

Claims use since Mar. 14, 1912.

Ser. No. 263,174. ST. ALBANS GRAIN COMPANY, St. Albans, Vt. Filed Mar. 14, 1928.



No claim is made to the words "Protein Summer Ration" apart from the mark shown in the drawing.

For Feed for Dairy Stock.

Claims use since May, 1926.

Ser. No. 263,175. ST. ALBANS GRAIN COMPANY, St. Albans, Vt. Filed Mar. 14, 1928.

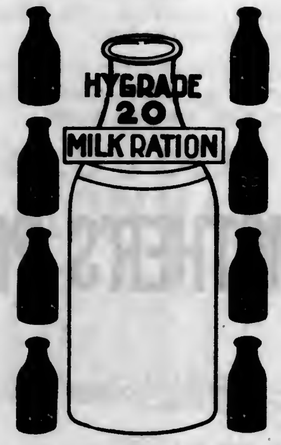


No claim is made to the words "Horse Feed" apart from the mark shown in the drawing.

For Horse Feed.

Claims use since November, 1927.

Ser. No. 263,176. ST. ALBANS GRAIN COMPANY, St. Albans, Vt. Filed Mar. 14, 1928.



No claim is made to the terms "Hygrade 20 Milk Ration" and "Hygrade 20 Ration" apart from the mark shown in the drawing.

For Feeds and Dairy Stock Known as 20 Milk Ration and 24 Dairy Feed.

Claims use since June, 1927.

Ser. No. 264,335. TEA TIME FOOD PRODUCTS COMPANY, Chicago, Ill. Filed Apr. 4, 1928.

TEA TIME

For Southern Relish Composed of Chopped Cabbage, Onion, Red and Green Peppers, Celery and Mustard Seeds, Spices and Vinegar; Colonial Sweet Relish, Fruit Conserves; Liver Appetizer Comprising a Smooth Paste or Spread Made of Baby Beef Liver, Essence of Onion, Salt Virgin Olive Oil, and Vinegar; Watermelon Sweet Pickle, Salad Dressing, and Imported Cheese Spread.

Claims use since January 7, 1928.

Ser. No. 264,652. PORTLAND PACKING CO., Portland, Me. Filed Apr. 10, 1928. Under 10-year proviso.

WEBB'S CREAM SUGAR

For Canned Corn.

Claims use since 1883.

Ser. No. 264,885. KEEBLER WEYL BAKING CO., Philadelphia, Pa. Filed Apr. 16, 1928.

FOUNTAIN WAFERS

The term "Wafers" is disclaimed apart from the mark shown.

For Hard or Semi-hard Crackers, Wafers, or Biscuits.

Claims use since Jan. 1, 1915.

Ser. No. 265,155. GRIGGS, COOPER & COMPANY, St. Paul, Minn. Filed Apr. 20, 1928.

Home Brand

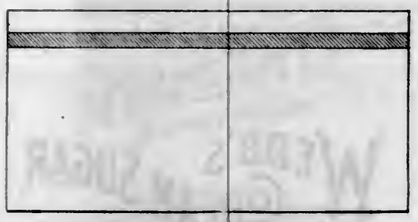


The word "Brand" is disclaimed apart from the mark as shown in the drawing.

For Canned Meats—Namely, Roast Beef, Vienna Sausage, Potted Meat Products; Bouillon Cubes; Canned Sea Foods—Namely, Clams, Clam Chowder, Clam Juice, Crab Meat, Tuna Fish, Salmon, Sardines, Lobster, Oysters, Shrimp; Dried Codfish, Canned Vegetables, Canned Pork and Beans, Canned Sauerkraut, Breakfast Cereals, Rice, Wild Rice, Canned Hominy, Tapioca, Birdseed, Buckwheat Flour, Potato Flour, Corn Starch, Macaroni, Spaghetti, Vermicelli, Toast, Crackers, Canned Fruits, Jams, Jellies, Jelly Powder, Marmalades, Fruit Butters, Dates, Raisins, Ginger, Mincemeat, Peanut Butter, Honey, Sugar, Molasses, Sorghum, Maple Syrup, Candies, Pickles, Chowchow, Capers; Sweet Relish Consisting of Chopped Sweet Pickles, Cauliflower, Onions, Paprika, Celery Seed, and Brine; Olive Oil, Vinegars, Horse-Radish, Mustard, Catsup, Chili Sauce, Mayonnaise, Mint Sauce, Salad Dressing, Olives, Stuffed Olives, Olive Salad, Canned Pimientos, Spices, Mexican Chilli Powder, Onion Salt, Food-Flavoring Extracts, Chocolate, Cocoa, Tea, Coffee, Canned Evaporated Milk, Canned Soups, Cheese.

Claims use since 1877.

Ser. No. 265,605. A. SCHILLING & CO., San Francisco, Calif. Filed Apr. 30, 1928.



Applicant disclaims the right to the exclusive use of the pictorial representation of the container blank. The mark consists of a green stripe extending circumferentially of the container.

For Tea.

Claims use since Jan. 1, 1927.

Ser. No. 265,693. THE REA-PATTERSON MILLING COMPANY, Coffeyville, Kans. Filed Apr. 30, 1928.

KING COTTON

For Wheat Flour.

Claims use since 1893.

Ser. No. 265,726. INTERNATIONALE CACAOFABRIEKEN, Amsterdam, Netherlands. Filed May 1, 1928.



No claim is made to the representation of the wrapper or of the cacao bean or all of the reading matter except the name "J. & C. Blooker" and "Blooker's."

For Powdered Cocoa.

Claims use since Jan. 2, 1913.

Ser. No. 265,897. L. C. FORMAN & SONS, INC., Pittsford, N. Y. Filed May 4, 1928.



The lining in the drawing indicates the colors red, blue, and green, and the stippling is intended to show gold.

For Chili Sauce, Pickle Relish, Pickles, Vinegar, Catsup.

Claims use since June 8, 1925.

Ser. No. 265,977. MASSACHUSETTS PIE BAKING COMPANY, Fall River, Mass. Filed May 5, 1928.

MOTHER'S PIE

No claim is made to the word "Pie" apart from the mark shown on the drawing.

For Pies.

Claims use since May 6, 1927.

Ser. No. 266,015. CALIFORNIA BLEACHING WATER CO., San Francisco, Calif. Filed May 7, 1928.

CHALLENGE

For Cottonseed Salad Oil.

Claims use since Jan. 2, 1925.

Ser. No. 266,101. R. B. SMITH, doing business as R. B. Smith & Co., Ogden, Utah. Filed May 8, 1928.



For Mayonnaise Dressing Consisting of Vegetable Oil, Sugar, Salt, Mustard, Pepper, Eggs, Vinegar, Cornstarch, and Vegetable Coloring; Also Relish Spread Containing the Same Ingredients as Mayonnaise Dressing With Sweet-Pickle Relish Added Thereto; Also Thousand Island Dressing Containing the Same Ingredients as Said Mayonnaise Dressing with Chili Sauce, Sweet Pickle, and Pimentos Added Thereto.

Claims use since Jan. 25, 1928.

Ser. No. 266,109. STANDARD IMPORTS LIMITED, Montreal, Canada. Filed May 8, 1928.

CLUB DES MILLIONNAIRES



For Canned Fruits, Vegetables, and Shellfish, Table Sirups, Tea, Coffee, Breakfast Cereals, Honey, Fruit Preserves, Olives, Spices, Vinegar, and Canned Soups.

Claims use since 1908.

Ser. No. 266,133. HAWAIIAN PINEAPPLE COMPANY, LTD., San Francisco, Calif., and Iwilei, Territory of Hawaii. Filed May 9, 1928.

HPCO

For Canned Fruits.

Claims use since 1910.

Ser. No. 266,149. BENJAMIN A. SETTEL, doing business as Settel Coffee and Spice Co., Gary, Ind. Filed May 9, 1928.

ENVOY

For Coffee, Tea, Food Flavoring Extracts, Cocoas, Spices, Jelly Powder, Malt Syrup, and Cocoanut.

Claims use since Mar. 7, 1928.

Ser. No. 266,236. THE BLOTZ-HENNEMAN SEED CO., Clayton, N. Mex. Filed May 11, 1928.

NAVAJO

For Baby-Chick Scratch Composed of Cracked Corn, Cracked Milo, Cracked Kaffir, Cracked Wheat and Millet; Chick Starter, Recleaned Choice Pinto Beans, Recleaned Baby Lima Beans, Choice Recleaned Black-Eye Peas, Hen Scratch, Laying Mash, and Dairy Feed.

Claims use since July 1, 1922.

Ser. No. 266,241. GITHENS RENSAMER & CO., Philadelphia, Pa. Filed May 11, 1928.

400

For Coffee.

Claims use since 1908.

Ser. No. 266,365. FERRARA PANNED CANDY CO. INC., Chicago, Ill. Filed May 14, 1928.

Prekisses

For Candy.

Claims use since Mar. 5, 1928.

Ser. No. 266,370. J. E. GRANT, doing business as Grant's Hygienic Food Products Company, Berkeley, Calif. Filed May 14, 1928.

GRANT'S

The portrait appearing in drawing is that of applicant.

For Crackers, Hygienic Crackers, Breakfast Food, Wafers, Mush, Bread, Honey, Health Confections, Coffee Substitute, Fruit and Nut Butter, and Bran.

Claims use since Jan. 15, 1900.

Ser. No. 266,504. THE ZEHNER PACKING COMPANY, Bellevue, Ohio. Filed May 16, 1928. Under 10-year proviso.

DRESDEN HAM

For Ham.

Claims use since 1890.

Ser. No. 266,505. ALBERT MILLER & COMPANY, Chicago, Ill. Filed May 17, 1928.

EARTIPT

For Fresh Potatoes.

Claims use since Apr. 27, 1928.

Ser. No. 266,545. ANN K. KREGEL, Nebraska City, Nebr. Filed May 17, 1928.

ROYALAN TAL-KERS SANDWICH MAN

For Sandwiches.

Claims use since Mar. 15, 1928.

Ser. No. 266,556. PENDLETON FLOUR MILL CO., Pendleton, Oreg. Filed May 17, 1928.

The lining of drawing indicates shading.

For Wheat Flour.

Claims use since Jan. 1, 1927.

Ser. No. 266,565. JOHN H. TURNER, Stockton, Calif. Filed May 17, 1928.

THE GRIZZLY BEAR BRAND HORSE RADISH

The words "Brand" and "Horse Radish" are disclaimed apart from the other features of the mark shown in the drawing.

For Horse-Radish.

Claims use since Apr. 3, 1922.

Ser. No. 266,625. SCHOENHOFEN COMPANY, Chicago, Ill. Filed May 18, 1928.

Edelmalt

For Malt Syrup for Food Purposes.

Claims use since Apr. 7, 1928.

Ser. No. 266,741. OLD DOMINION TOBACCO COMPANY, INC., Norfolk, Va. Filed May 21, 1928.

Hygeia

For Evaporated Milk.

Claims use since May 2, 1928.

Ser. No. 266,830. ROYAL FEED & MILLING COMPANY, doing business as Royal-Stafolife Mills, Memphis, Tenn. Filed May 22, 1928.

STAF-O-LIFE

For Corn Meal and Stock Feeds for All Classes of Live Stock, Such as Poultry Feed, Pigeon Feed, Hog Feed, Cattle Feed, Horse and Mule Feed, Etc.

Claims use since 1907.

Ser. No. 266,953. QUALITY BUTTER & EGG CO., INC., New York, N. Y. Filed May 24, 1928.

THE HEART OF JERSEY EGGS

No claim is made for the word "Eggs" and the representation of an egg apart from the mark shown.

For Eggs.

Claims use since May 5, 1928.

Ser. No. 267,085. SHELLABARGER MILLS & ELEVATOR COMPANY, Salina, Kans. Filed May 26, 1928.

1776

For Bread.

Claims use since May 4, 1928.

372 O. G.—37

Ser. No. 267,234. BRODY NOVELTY CANDY PACKAGE CO., INC., New York, N. Y. Filed May 31, 1928.

MERRYTOWN

For Candy.

Claims use since Apr. 17, 1928.

Ser. No. 267,278. ROMAN MEAL COMPANY, Tacoma, Wash. Filed May 31, 1928.

ROMEALA

For Bread and Cereal Products—Namely, Cakes and Cookies.

Claims use since Aug. 1, 1927.

Ser. No. 267,281. T. M. SINCLAIR & CO. LTD., Cedar Rapids, Iowa. Filed May 31, 1928.

BlueBonnet

For Sliced Bacon.

Claims use since May 18, 1928.

Ser. No. 267,365. GEORGE KOUNIAS, Modesto, Calif. Filed June 2, 1928.

BAT

For Fresh Deciduous Fruits.

Claims use since June 1, 1927.

Ser. No. 267,413. GOLD ROLLED FOOD PRODUCTS CO., Chicago, Ill. Filed June 4, 1928.

RIBBONS OF GOLD EGG NOODLES

No claim is made to the words "Egg Noodles" apart from the mark.

For Egg Noodles.

Claims use since Apr. 13, 1928.

Ser. No. 267,461. ROEDING FIG & OLIVE CO., Fresno, Calif. Filed June 4, 1928.

Roeding's

For Dried Fruits.
Claims use since 1903.

Ser. No. 267,498. LITTLE CROW MILLING COMPANY, Warsaw, Ind. Filed June 5, 1928.

LITTLE CROW



Applicant is the owner of registration 208,763.
For Pancake Flour and Buckwheat Flour.
Claims use since 1920.

Ser. No. 267,634. DEMING & GOULD CO., Chicago, Ill., and South Bellingham, Wash. Filed June 7, 1928.

LOCK

For Canned Salmon.
Claims use since July, 1915.

Ser. No. 267,635. DEMING & GOULD CO., Chicago, Ill., and South Bellingham, Wash. Filed June 7, 1928.

BIG INJUN

For Canned Salmon.
Claims use since July, 1915.

Ser. No. 267,745. BUFFALO FLOUR MILLS CORPORATION, Buffalo, N. Y. Filed June 9, 1928.

GREAT LAKES



For Wheat Flour.
Claims use since Apr. 25, 1928.

CLASS 49.

Distilled Alcoholic Liquors.

Ser. No. 267,466. SECURITY WAREHOUSE AND INVESTMENT CO., St. Louis, Mo. Filed June 4, 1928.

OLD RIP VAN WINKLE

For Whiskey for Medicinal Purposes.
Claims use since May 1, 1928.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 254,021. JAMES L. WRIGHT, doing business as Charred Sticks Company, Atlanta, Ga. Filed Aug. 26, 1927.

GOLDEN CORN CHARD-STIX
CLARIFIES DEODORIZES PURIFIES

All wording appearing on the drawing except the words "Golden Corn" and the representation of the goods are disclaimed apart from the mark as shown on the drawing.
For Charred Sticks for Purification of Water and Other Liquids.
Claims use since June 20, 1927.

Ser. No. 260,331. BEN H. HAZEN CO., Portland, Oreg. Filed Jan. 19, 1928.

THE BIRD WHO USES HIS HEAD
NATURE'S SYSTEMATIC SAVER

For Advertising Displays Which Consist of Sections of Telegraph Poles Drilled by Woodpeckers, and the Holes Filled with Acorns, and Upon Which Figures of Woodpeckers are Mounted.
Claims use since Aug. 1, 1927.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JULY 17, 1928.

244,164. ROCK DRILLS. THE KILBORN & BISHOP COMPAN, New Haven, Conn.
Filed February 21, 1928. Serial No. 262,032. PUBLISHED MAY 1, 1928. Class 23.

244,165. TEAS AND COFFEE. DRAKE & COMPANY, Easton, Pa.
Filed February 21, 1928. Serial No. 262,022. PUBLISHED MAY 1, 1928. Class 46.

244,166. CANNED FRUITS, CANNED VEGETABLES, CANNED BERRIES, CANNED SUCCOTASH, AND CANNED SLICED PINEAPPLE. MIDDLE STATES PACKING CORPORATION, Chicago, Ill.
Filed February 16, 1928. Serial No. 262,011. PUBLISHED MAY 1, 1928. Class 46.

244,167. COAL, WOOD, AND GAS STOVES, RANGES, HEATERS, AND FURNACES; DAMPERS, FIREPLACE THROATS, CLEAN-OUT DOORS, ASH DUMPS, AND FUNNEL IRONS OR THIMBLES. PORTLAND STOVE FOUNDRY COMPANY, Portland, Me.
Filed February 20, 1928. Serial No. 261,985. PUBLISHED MAY 8, 1928. Class 34.

244,168. UNIVERSAL JOINTS, FLEXIBLE COUPLINGS, AND PARTS THEREOF. SPICER MANUFACTURING CORPORATION, South Plainfield, N. J.
Filed February 17, 1928. Serial No. 261,844. PUBLISHED MAY 1, 1928. Class 23.

244,169. DEVICE FOR SIMULTANEOUSLY INDICATING CUT-OFF AND SPEED OF STEAM ENGINES. CUT-OFF & SPEED RECORDER CORPORATION, New York, N. Y.
Filed February 17, 1928. Serial No. 261,795. PUBLISHED MAY 8, 1928. Class 26.

244,170. BLANKETS AND RUGS MADE OF TEXTILE MATERIAL FOR PERSONAL USE. WORMALDS & WALKER, LIMITED, Dewsbury, England.
Filed February 15, 1928. Serial No. 261,727. PUBLISHED MAY 1, 1928. Class 42.

244,171. BLANKETS AND RUGS MADE OF TEXTILE MATERIAL FOR PERSONAL USE. WORMALDS & WALKER, LIMITED, Dewsbury, England.
Filed February 15, 1928. Serial No. 261,726. PUBLISHED MAY 1, 1928. Class 42.

244,172. CEREAL BREAKFAST FOODS. JERSEY CEREAL COMPANY, Cereal, Pa.
Filed February 13, 1928. Serial No. 261,633. PUBLISHED MAY 1, 1928. Class 46.

244,173. ETHYL ALCOHOL FOR USE IN THE MANUFACTURE OF PHARMACEUTICALS, PATENT MEDICINES, AND BY HOSPITALS AND DOCTORS FOR GENERAL DRUG AND SCIENTIFIC PURPOSES. GENERAL INDUSTRIAL ALCOHOL COMPANY INCORPORATED, Marrero, La.
Filed February 11, 1928. Serial No. 261,564. PUBLISHED MAY 8, 1928. Class 49.

244,174. SPRAY ATTACHMENTS FOR SUCTION CLEANERS AND THE LIKE. THE P. A. GEIER COMPANY, Cleveland, Ohio.
Filed February 11, 1928. Serial No. 261,563. PUBLISHED MAY 8, 1928. Class 23.

244,175. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. CHENEY BROTHERS, South Manchester, Conn.
Filed February 11, 1928. Serial No. 261,553. PUBLISHED MAY 1, 1928. Class 42.

244,176. BIRD FOOD. THE SHELLGRAM COMPANY, Newark, N. J.
Filed February 10, 1928. Serial No. 261,528. PUBLISHED MAY 1, 1928. Class 46.

244,177. LEAD PENCILS, INK PENCILS, AND COLORED PENCILS. A. W. FABER INC., Newark, N. J.
Filed February 10, 1928. Serial No. 261,496. PUBLISHED MAY 1, 1928. Class 37.

244,178. FRESH DECIDUOUS FRUITS, FRESH CITRUS FRUITS, FRESH VEGETABLES, AND DRIED FRUITS. SUNSET PRODUCE CO., San Francisco, Calif.
Filed February 8, 1928. Serial No. 261,403. PUBLISHED MAY 1, 1928. Class 46.

244,179. CANNED PIMIENTOS MORRONES (RED SWEET PEPPERS), CANNED PEELED RED CHILE PEPPERS, CANNED PEELED GREEN CHILE PEPPERS. ROYAL PACKING COMPANY, Los Angeles, Calif.
Filed February 8, 1928. Serial No. 261,387. PUBLISHED MAY 8, 1928. Class 46.

244,180. MOTION-PICTURE-THEATRE EQUIPMENT—NAMELY, MOTION-PICTURE PROJECTORS AND PARTS THEREOF, INCLUDING FILM REELS, CARBON ADAPTERS, AND CARBON SAVERS. E. E. FULTON CO., Chicago, Ill.
Filed February 7, 1928. Serial No. 261,311. PUBLISHED MAY 1, 1928. Class 26.

244,181. KEROSENE AND GASOLINE STOVES. NATIONAL ENAMELING AND STAMPING COMPANY, Milwaukee, Wis.
Filed February 6, 1928. Serial No. 261,277. PUBLISHED MAY 8, 1928. Class 34.

244,182. CIGARETTES AND SMOKING TOBACCO. G. M. LEINBACH, Chicago, Ill.
Filed February 6, 1928. Serial No. 261,269. PUBLISHED MAY 8, 1928. Class 17.

244,183. CANDY. BUNTE BROTHERS, Chicago, Ill.
Filed February 2, 1928. Serial No. 261,041. PUBLISHED MAY 8, 1928. Class 46.

244,184. PAPER BOXES. CAMBRIDGE PAPER BOX COMPANY, Cambridge, Mass.
Filed March 21, 1928. Serial No. 263,536. PUBLISHED MAY 8, 1928. Class 2.

244,185. PAPER BOXES. CAMBRIDGE PAPER BOX COMPANY, Cambridge, Mass.
Filed March 21, 1928. Serial No. 263,535. PUBLISHED MAY 8, 1928. Class 2.

244,186. WOOLEN GOODS IN THE PIECE. WORUMBO MANUFACTURING COMPANY, Bath, Me.
Filed March 20, 1928. Serial No. 263,527. PUBLISHED MAY 8, 1928. Class 42.

244,187. WINDOW-SHADE CLOTH. THE WESTERN SHADE CLOTH COMPANY, Chicago, Ill.
Filed March 20, 1928. Serial No. 263,524. PUBLISHED MAY 1, 1928. Class 42.

244,188. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS, EXTRACTS, AND CONCENTRATES FOR MAKING THE SAME, GINGER ALE, CARBONATED BEVERAGES, FOUNTAIN SIRUPS, BOTTLER'S SIRUPS, AND EXTRACTS. MULVIHILL-GOODWINE COMPANY, doing business as Chesterfield Dry Ginger Ale Co., Chicago, Ill.
Filed March 20, 1928. Serial No. 263,506. PUBLISHED MAY 8, 1928. Class 45.

244,189. FRESH CITROUS FRUIT—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT. LIMONEIRA COMPANY, Santa Paula, Calif.
Filed March 20, 1928. Serial No. 263,484. PUBLISHED MAY 8, 1928. Class 46.

244,190. CANNED VEGETABLES—NAMELY, CANNED TOMATOES, CANNED GOLDEN BANTAM CORN, CANNED COUNTRY GENTLEMAN SWEET CORN, AND CANNED CROSBY CORN. LAKE MILLS CANNING COMPANY, Lake Mills, Iowa.
Filed March 20, 1928. Serial No. 263,481. PUBLISHED MAY 1, 1928. Class 46.

244,191. BOOK CLOTH. THE HOLLISTON MILLS INC., Norwood, Mass.
Filed March 20, 1928. Serial No. 263,470. PUBLISHED MAY 8, 1928. Class 42.

244,192. CANDY. ALVA B. HAWKINS, doing business as The House of Hawkins and as Hawkins, Los Angeles, Los Angeles, Calif.
Filed March 20, 1928. Serial No. 263,468. PUBLISHED MAY 8, 1928. Class 46.

244,193. WRENCHES. STEVENS WALDEN-WORCESTER, INC., Worcester, Mass.
Filed March 19, 1928. Serial No. 263,443. PUBLISHED MAY 1, 1928. Class 23.

244,194. PORTABLE SAVINGS BANKS. THE GEAR ROBINSON CORPORATION, Minneapolis, Minn.
Filed March 19, 1928. Serial No. 263,387. PUBLISHED MAY 8, 1928. Class 25.

244,195. CANNED AND BOTTLED PICKLES. A. F. WEINRICH, doing business as Weinrich Pickle Co., Los Angeles, Calif.
Filed March 17, 1928. Serial No. 263,361. PUBLISHED MAY 8, 1928. Class 46.

244,196. CANNED VEGETABLES. OCONOMOWOC CANNING COMPANY, Oconomowoc, Wis.
Filed March 17, 1928. Serial No. 263,335. PUBLISHED MAY 1, 1928. Class 46.

244,197. FRESH CITRUS FRUITS. BRADFORD BROS., INC., Placentia, Calif.
Filed March 17, 1928. Serial No. 263,303. PUBLISHED MAY 1, 1928. Class 46.

244,198. PILE FABRICS IN THE PIECE AND CUT LENGTHS. COLLINS AND AIKMAN CORPORATION, Philadelphia, Pa.
Filed March 16, 1928. Serial No. 263,259. PUBLISHED MAY 1, 1928. Class 42.

244,199. BLANKETS MADE OF COTTON OR COTTON AND WOOL. BEACON MANUFACTURING COMPANY, New Bedford, Mass.
Filed March 16, 1928. Serial No. 263,256. PUBLISHED MAY 1, 1928. Class 42.

244,200. RAILWAY SUPPLIES—NAMELY, BRAKE RIGGING, HAND BRAKES, AIR BRAKES, AND ASSOCIATED PARTS, RAILWAY-CAR LADDERS, BRAKE REGULATORS, AND SPARE PARTS. ROYAL RAILWAY IMPROVEMENTS CORPORATION, New York, N. Y.
Filed March 15, 1928. Serial No. 263,228. PUBLISHED MAY 8, 1928. Class 19.

244,201. MACHINES FOR MARKING AND STAMPING TEXTILE FABRICS. PARKS AND WOOLSON MACHINE COMPANY, Springfield, Vt.
Filed March 15, 1928. Serial No. 263,227. PUBLISHED MAY 8, 1928. Class 23.

244,202. FRESH DECIDUOUS FRUITS. GEO. MCKINLAY, Sanger, Calif.
Filed March 15, 1928. Serial No. 263,222. PUBLISHED MAY 8, 1928. Class 46.

244,203. SILK PIECE GOODS. H. R. MALLINSON & CO. INC., New York, N. Y.
Filed March 15, 1928. Serial No. 263,221. PUBLISHED MAY 8, 1928. Class 42.

244,204. MEDICINE AND TONIC TO BE TAKEN INTERNALLY FOR THE DIGESTIVE TRACT, INDIGESTION, CONSTIPATION, BILIOUSNESS, CATARRHAL CONDITION OF THE WOMB, CONGESTION OF THE OVARIES, PROLAPSUS, AND FOR TONING THE LIVER. ALEXANDER, Water Valley, Miss.
Filed March 7, 1928. Serial No. 262,687. PUBLISHED MAY 8, 1928. Class 6.

244,205. AUTOMOBILE TIRES AND INNER TUBES THEREFOR. CHICAGO MAIL ORDER COMPANY, Chicago, Ill.
Filed March 6, 1928. Serial No. 262,647. PUBLISHED MAY 8, 1928. Class 35.

244,206. MALTED MILK. ARNEST'S MALTED MILK SHOPS, San Francisco, Calif.
Filed March 6, 1928. Serial No. 262,641. PUBLISHED MAY 8, 1928. Class 46.

244,207. ANTISEPTICS. JULIAN F. THORNTON, doing business as The Pinee Chemical Co., Kinston, N. C.
Filed March 5, 1928. Serial No. 262,635. PUBLISHED MAY 1, 1928. Class 6.

244,208. COMPOUND IN FLAKE FORM FOR ABSORBING SURFACE AND ATMOSPHERIC MOISTURE. DAVID KIRSCH, doing business as Kirsch Jewelry & Novelty Co., St. Louis, Mo.
Filed March 5, 1928. Serial No. 262,612. PUBLISHED MAY 8, 1928. Class 6.

244,209. MALT SYRUP. JOHN JOSEPH HASTINGS, doing business as Irish Products Co., Milton, Mass.
Filed March 5, 1928. Serial No. 262,606. PUBLISHED MAY 8, 1928. Class 46.

244,210. OLIVE OIL. COELHO BROTHERS, Fall River, Mass.
Filed March 3, 1928. Serial No. 262,555. PUBLISHED MAY 1, 1928. Class 46.

244,211. LEATHER DRESSING. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed March 2, 1928. Serial No. 262,526. PUBLISHED APRIL 24, 1928. Class 4.

244,212. LIQUID METAL POLISH. CHROME LIQUID, INC., Chicago, Ill.
Filed March 2, 1928. Serial No. 262,508. PUBLISHED APRIL 24, 1928. Class 4.

244,213. ILLUMINATED TIRE COVERS. ERO MANUFACTURING CO., Chicago, Ill.
Filed February 29, 1928. Serial No. 262,394. PUBLISHED MAY 1, 1928. Class 35.

244,214. GENERAL TONIC. NU BLOOD MEDICINE CO., Newark, N. J.
Filed February 28, 1928. Serial No. 262,375. PUBLISHED MAY 1, 1928. Class 6.

244,215. BEDSPRINGS. THE ROME COMPANY, INC., Chicago, Ill.
Filed February 27, 1928. Serial No. 262,331. PUBLISHED MAY 1, 1928. Class 32.

244,216. OINTMENT PREPARATIONS FOR INFLAMMATION OF THE FEMALE GENITAL TRACTS, AND PARTICULARLY FOR GONORRHEAL INFECTIONS. MEDI-JELL PRODUCTS, INC., New York and Brooklyn, N. Y.
Filed February 27, 1928. Serial No. 262,321. PUBLISHED MAY 1, 1928. Class 6.

244,217. FOOD PRODUCT CONSISTING OF CONCENTRATED SPINACH. SPINACH PRODUCTS CO., INC., Norfolk, Va.
Filed February 25, 1928. Serial No. 262,269. PUBLISHED MAY 1, 1928. Class 46.

244,218. CITRUS PECTIN; CITRUS ACID PRODUCTS—NAMELY, LEMON JUICE AND LEMON OIL FOR FOOD-FLAVORING PURPOSES. MARY BETTY ROHNER, New York, N. Y.
Filed February 25, 1928. Serial No. 262,263. PUBLISHED MAY 8, 1928. Class 46.

244,219. CARTOONS AND COMIC STRIPS OF DRAWINGS AND SKETCHES FOR NEWSPAPER, MAGAZINE, OR/AND BOOK PUBLICATION, WITH EACH DRAWING OR SKETCH SUCCEEDING ANOTHER IN THE MANNER OF AND IN IMITATION OF A STRIP OF MOTION-PICTURE FILM, OR IN ANY OTHER MANNER CUSTOMARILY USED FOR COMIC STRIPS. JULIAN OLLENDORFF, New York, N. Y.
Filed February 25, 1928. Serial No. 262,250. PUBLISHED APRIL 24, 1928. Class 38.

244,220. MINERAL WATER, GINGER ALE, AND A FULL LINE OF NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS, EXTRACTS, AND CONCENTRATES FOR MAKING THE SAME. WILSON-MARTIN BOTTLING WORKS, INC., Rockville Center, N. Y.
Filed February 24, 1928. Serial No. 262,194. PUBLISHED MAY 8, 1928. Class 45.

244,221. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK AND SIRUP, EXTRACT, AND CONCENTRATE FOR MAKING THE SAME. CHARLES ADAMS, New Kensington, Pa.
Filed February 24, 1928. Serial No. 262,143. PUBLISHED MAY 8, 1928. Class 45.

244,222. CONDUCTING HOSE OF RUBBER REINFORCED WITH FIBROUS MATERIAL. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed February 23, 1928. Serial No. 262,078. PUBLISHED MAY 1, 1928. Class 35.

244,223. WASHING POWDER WHICH HAS INCIDENTAL WATER-SOFTENING PROPERTIES. THE LIMO CHEMICAL CO., Decatur, Ind.
Filed February 21, 1928. Serial No. 262,034. PUBLISHED MAY 1, 1928. Class 4.

244,224. PHARMACEUTICAL PREPARATION IN FORM OF TONIC PILLS SPECIALLY USED FOR DEVELOPMENT OF WOMEN'S BREASTS. PEDRO RAMIREZ MARTINEZ, Habana, Cuba.
Filed February 20, 1928. Serial No. 261,972. PUBLISHED MAY 1, 1928. Class 6.

244,225. SOAP. MARIE EARLE, INC., New York, N. Y.
Filed February 20, 1928. Serial No. 261,971. PUBLISHED APRIL 24, 1928. Class 4.

244,226. HAIR, SCALP, AND SKIN LOTION. THE COMBEASY CO. INC., Long Beach, Calif.
Filed February 20, 1928. Serial No. 261,942. PUBLISHED MAY 8, 1928. Class 6.

244,227. TOOTH PASTE, TOOTH POWDER, TOOTH WASH, MOUTH WASH, DENTAL FLOSS, AND LIQUID SHAMPOO. THE LUFRIE CO., INC., New York, N. Y.
Filed February 18, 1928. Serial No. 261,888. PUBLISHED MAY 8, 1928. Class 6.

244,228. MONTHLY MAGAZINE. KEYSTONE PUBLISHING COMPANY, Los Angeles, Calif.
Filed February 18, 1928. Serial No. 261,883. PUBLISHED MAY 1, 1928. Class 38.

244,229. LIQUID SOAP OR SOAP PASTE. D. T. PRODUCTS CO., East McKeesport, Pa.
Filed February 15, 1928. Serial No. 261,703. PUBLISHED MAY 8, 1928. Class 4.

244,230. BOOKS. EMMY SLOAN, Ridgefield, Conn.
Filed February 13, 1928. Serial No. 261,655. PUBLISHED APRIL 24, 1928. Class 38.

244,231. PREPARATION FOR KILLING WEEVIL. G. S. ROBINS & COMPANY, St. Louis, Mo.
Filed February 13, 1928. Serial No. 261,651. PUBLISHED MAY 8, 1928. Class 6.

244,232. SYRUP MADE FROM FRUITS AND GRAINS AND USED FOR COATING CAKES AND CANDY AND AS A FLAVORING INGREDIENT FOR ICE CREAM AND CONFECTIONS. KO-PA CORPORATION, Fort Worth, Tex.
Filed February 11, 1928. Serial No. 261,575. PUBLISHED MAY 8, 1928. Class 46.

244,233. MONTHLY PRINTED PERIODICAL OR TRADE PAPER. FEDERATED BUSINESS PUBLICATIONS, INC., New York, N. Y.
Filed February 11, 1928. Serial No. 261,559. PUBLISHED APRIL 24, 1928. Class 38.

244,234. ROPE OF VEGETABLE FIBER. COLUMBIAN ROPE COMPANY, Auburn, N. Y.
Filed February 11, 1928. Serial No. 261,554. PUBLISHED MAY 8, 1928. Class 7.

244,235. SKIN LOTION, TALCUM POWDER, COLD CREAM, VANISHING CREAM, SOLID PERFUME, PERFUME, TOILET WATER, LIP AND CHEEK ROUGE (CREAM AND POWDER), SINGLE AND DOUBLE POWDER COMPACTS CONTAINING POWDER, AND FACE POWDER. JACIEL PERFUMERS, INC., New York, N. Y.
Filed February 10, 1928. Serial No. 261,511. PUBLISHED MAY 1, 1928. Class 6.

244,236. RAZOR HONE. RICHARD C. HARRISON, doing business as Harrison & Company, Haverhill, Mass.
Filed February 10, 1928. Serial No. 261,508. PUBLISHED APRIL 24, 1928. Class 4.

244,237. VALVE-GRINDING COMPOUNDS. RICHARD C. HARRISON, doing business as Harrison & Company, Haverhill, Mass.
Filed February 10, 1928. Serial No. 261,507. PUBLISHED APRIL 24, 1928. Class 4.

244,238. MEDICINE OR PHARMACEUTICAL PREPARATION—NAMELY, A PALATABLE COMBINATION OF COD-LIVER OIL WITH MALT AND AN EXTRACT RICH IN B VITAMIN FOR USE AS A TONIC. ELI LILLY AND COMPANY, Indianapolis, Ind.
Filed February 7, 1928. Serial No. 261,321. PUBLISHED MAY 8, 1928. Class 6.

244,239. MAGAZINE PUBLISHED SEVEN TIMES A YEAR. THE GLIDDEN COMPANY, Cleveland, Ohio.
Filed February 6, 1928. Serial No. 261,254. PUBLISHED APRIL 24, 1928. Class 38.

244,240. ALE. WILLIAM YOUNGER & CO., LIMITED, Edinburgh, Scotland.
Filed February 4, 1928. Serial No. 261,228. PUBLISHED MAY 1, 1928. Class 48.

244,241. CONDUCTING HOSE COMPOSED OF RUBBER OR RUBBER AND FIBER. GOODALL RUBBER COMPANY, Philadelphia, Pa.
Filed February 3, 1928. Serial No. 261,110. PUBLISHED MAY 1, 1928. Class 35.

244,242. MEDICINE FOR THE TREATMENT OF CANCER AND GOITER. N. R. FREEMAN, Winamac, Ind.
Filed February 3, 1928. Serial No. 261,104. PUBLISHED MAY 1, 1928. Class 6.

244,243. PHARMACEUTICAL PREPARATIONS—NAMELY, GENERAL TONICS, DYSPEPSIA MEDICINE, ANTISEPTIC DOUCHE POWDER, SHAMPOO OIL, FLUID EXTRACT OF CASCARA, MENTHOLATED WHITE PINE AND TAR, WITCH-HAZEL, BAY RUM, PREPARATION FOR TREATING SUNBURN, WINE OF COD-LIVER OIL COMPOUND, MEDICINAL MINERAL OIL, ARTIFICIALLY-COMPOUNDED SALINE MINERAL WATER, AND RUBBING ALCOHOL PREPARATION. THE ANSO COMPANY, San Francisco, Calif.
Filed February 2, 1928. Serial No. 261,034. PUBLISHED MAY 8, 1928. Class 6.

244,244. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 14, 1928. Serial No. 263,131. PUBLISHED MAY 1, 1928. Class 42.

244,245. PAPER DISHES. CRESCENT PAPER DISH CO., INC., Brooklyn, N. Y.
Filed March 13, 1928. Serial No. 263,074. PUBLISHED MAY 1, 1928. Class 2.

244,246. FABRICS AND CLOTH OF SILK, RAYON, WOOL, COTTON, AND MIXTURES THEREOF, BOTH IN THE PIECE AND IN THE BOLT. CARAFIOL-SILVERMAN GARMENT CO., St. Louis, Mo.
Filed March 12, 1928. Serial No. 263,033. PUBLISHED MAY 1, 1928. Class 42.

244,247. BOOK PAPER. KANSAS CITY PAPER HOUSE, Kansas City, Mo.
Filed March 10, 1928. Serial No. 262,966. PUBLISHED APRIL 24, 1928. Class 37.

244,248. BOND PAPER. RIVERSIDE FIBRE & PAPER CO., Appleton, Wis.
Filed March 10, 1928. Serial No. 262,933. PUBLISHED APRIL 24, 1928. Class 37.

244,249. BOND PAPER. RIVERSIDE FIBRE & PAPER CO., Appleton, Wis.
Filed March 10, 1928. Serial No. 262,932. PUBLISHED APRIL 24, 1928. Class 37.

244,250. TISSUE PAPER. PERKINS-GOODWIN COMPANY, New York, N. Y.
Filed March 10, 1928. Serial No. 262,927. PUBLISHED MAY 8, 1928. Class 37.

244,251. BOND, LEDGER, AND WRITING PAPER. NEENAH PAPER COMPANY, Neenah, Wis.
Filed March 10, 1928. Serial No. 262,924. PUBLISHED APRIL 24, 1928. Class 37.

244,252. FLAVORING EXTRACTS AND CONCENTRATED SYRUPS FOR MAKING SODA WATER AND OTHER NONALCOHOLIC BEVERAGES, PARTICULARLY FOR GINGER ALE. J. F. LAZIER MANUFACTURING CO., INC., St. Louis, Mo.
Filed March 10, 1928. Serial No. 262,918. PUBLISHED MAY 8, 1928. Class 45.

244,253. CANNED BAKED BEANS. G. F. HEUBLEIN & BRO., Hartford, Conn.
Filed March 10, 1928. Serial No. 262,960. PUBLISHED MAY 8, 1928. Class 46.

244,254. PIECE GOODS MADE OF SILK, COTTON, AND WOOL. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed March 10, 1928. Serial No. 262,909. PUBLISHED MAY 1, 1928. Class 42.

244,255. SILK CHIFFON CREPE IN THE PIECE. GOLDENBERG BROS. & CO., New York, N. Y.
Filed March 10, 1928. Serial No. 262,908. PUBLISHED MAY 1, 1928. Class 42.

244,256. ARTIFICIAL OR IMITATION LEATHER. THE MOCOTAN COMPANY, Newark, N. J.
Filed March 9, 1928. Serial No. 262,863. PUBLISHED APRIL 24, 1928. Class 50.

244,257. SILK PIECE GOODS. JAS. G. JOHNSON & CO., New York, N. Y.
Filed March 9, 1928. Serial No. 262,853. PUBLISHED MAY 8, 1928. Class 42.

244,258. PAPER BAGS. ZELLERBACH PAPER COMPANY, San Francisco, Calif.
Filed March 8, 1928. Serial No. 262,838. PUBLISHED MAY 1, 1928. Class 2.

244,259. COTTON, COTTON AND SILK, AND COTTON AND ARTIFICIAL-SILK GOODS IN THE PIECE. WM. SIMPSON, SONS & CO., Philadelphia, Pa.
Filed March 8, 1928. Serial No. 262,824. PUBLISHED MAY 1, 1928. Class 42.

244,260. ROASTED COFFEE. THE ENNIS-HANLY-BLACKBURN COFFEE CO., Kansas City, Mo.
Filed March 8, 1928. Serial No. 262,799. PUBLISHED MAY 1, 1928. Class 46.

244,261. PASTEURIZERS FOR DAIRY PRODUCTS. JENSEN CREAMERY MACHINERY COMPANY, Bloomfield, N. J.
Filed March 1, 1928. Serial No. 262,462. PUBLISHED MAY 8, 1928. Class 23.

244,262. ARTICLES MADE FROM SAFETY GLASS—NAMELY, WINDOWS AND WIND SCREENS FOR MOTOR CARS AND OTHER VEHICLES. THE SPLINTERLESS GLASS COMPANY LIMITED, Teddington, England.
Filed February 29, 1928. Serial No. 262,417. PUBLISHED MAY 8, 1928. Class 19.

244,263. CIGARETTE AND MATCH DISPENSERS NOT OPERATED BY COINS. ROBERT D. MILLS, Jr., doing business R. D. Mills Mfg. Co., Nashville, Tenn.
Filed February 28, 1928. Serial No. 262,370. PUBLISHED MAY 1, 1928. Class 23.

244,264. SAVINGS BANKS OR COIN RECEPTACLES. LEO A. HENTER, Silver Creek, N. Y.
Filed February 28, 1928. Serial No. 262,360. PUBLISHED MAY 1, 1928. Class 25.

244,265. CHOCOLATE-COVERED WAFERS IN THE NATURE OF A CHOCOLATE SANDWICH. MIKE FRANGOS, doing business as Lancaster Chocolate Specialty Co., Lancaster, Pa.
Filed February 28, 1928. Serial No. 262,353. PUBLISHED MAY 1, 1928. Class 46.

244,266. SEWING MACHINES. JORDAN MARSH COMPANY, Boston, Mass.
Filed February 27, 1928. Serial No. 262,309. PUBLISHED MAY 8, 1928. Class 23.

244,267. CANNED FRUITS AND CANNED VEGETABLES. RICHMOND-CHASE COMPANY, San Jose, Calif.
Filed February 25, 1928. Serial No. 262,262. PUBLISHED MAY 8, 1928. Class 46.

244,268. APPLIANCES FOR EXAMINING, TESTING, STRETCHING, AND CLASSIFYING HAIR. CHARLES NESSLER, doing business as C. Nestle Co., New York, N. Y.
Filed February 25, 1928. Serial No. 262,244. PUBLISHED MAY 1, 1928. Class 26.

244,269. ROASTED COFFEE. LEFLORE GROCERY COMPANY, Greenwood, Miss.
Filed February 24, 1928. Serial No. 262,169. PUBLISHED MAY 1, 1928. Class 46.

244,270. PAPER NAPKINS, WAX PAPER, PAPER TOWELS, WRAPPING PAPER, TOILET PAPER. SERVICE GROCER COMPANY, INC., Detroit, Mich.
Filed February 23, 1928. Serial No. 262,128. PUBLISHED APRIL 24, 1928. Class 37.

244,271. HAND BAGS, PURSES, AND POCKETBOOKS, WHETHER BEADED OR MADE OF LEATHER OR FABRIC. MADELON MODES, INC., New York, N. Y.
Filed February 23, 1928. Serial No. 262,103. PUBLISHED MAY 8, 1928. Class 3.

244,272. BREAKFAST FOOD. KO-PA CORPORATION, Fort Worth, Tex.
Filed February 21, 1928. Serial No. 262,033. PUBLISHED MAY 1, 1928. Class 46.

244,273. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 14, 1928. Serial No. 263,135. PUBLISHED MAY 1, 1928. Class 42.

244,274. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 14, 1928. Serial No. 263,134. PUBLISHED MAY 1, 1928. Class 42.

244,275. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 14, 1928. Serial No. 263,133. PUBLISHED MAY 1, 1928. Class 42.

244,276. SYRUPS, CONCENTRATES, AND EMULSIONS FOR THE PREPARATION OF SOFT DRINKS. VIRGINIA DARE EXTRACT CO. INC., Brooklyn, N. Y.
Filed January 21, 1924. Serial No. 191,108. PUBLISHED MAY 12, 1925. Class 45.

244,277. OPHTHALMIC LENSES. NEW ERA OPTICAL Co., Chicago, Ill.
Filed September 21, 1925. Serial No. 220,565. PUBLISHED NOVEMBER 23, 1926. Class 26.

244,278. CANDIES. HENRY R. BAILEY, Los Angeles, Calif.
Filed August 23, 1926. Serial No. 236,302. PUBLISHED MAY 8, 1928. Class 46.

244,279. TUBE PATCHES, BLOW-OUT PATCHES, AND SKIVE PATCHES. GEORGE W. ROBINSON, doing business as Robinson Manufacturing Co., West Orange, N. J.
Filed August 27, 1926. Serial No. 236,562. PUBLISHED MAY 8, 1928. Class 35.

244,280. CANNED FRUITS, CANNED VEGETABLES, HAMS, BACONS, FRANKFURTERS, SAUSAGES, BOLOGNAS, FRESH PORK CUTS, CANNED CHICKEN, BREAKFAST CEREALS, TEAS, COFFEES, COCOAS, BREAD, CAKE, VINEGAR, SALAD OIL, OLIVES, BUTTER, LARD, CHILI SAUCE, KETCHUP, CANNED FISH, SMOKED FISH, EGGS, SUGAR, RYE FLOUR, WHEAT FLOUR, PREPARED FLOUR, BUCKWHEAT FLOUR, AND PANCAKE FLOUR, JAMS, DRIED FRUITS, AND MAYONNAISE. H. C. BOHACK CO., INC., Brooklyn, N. Y.
Filed October 12, 1926. Serial No. 238,480. PUBLISHED MAY 8, 1928. Class 46.

244,281. MEDICINAL PREPARATIONS FOR THE TREATMENT OF CANCER, BLOOD POISONING. JOHN DUNN, Brooklyn, N. Y.
Filed November 12, 1926. Serial No. 239,975. PUBLISHED MAY 8, 1928. Class 6.

244,282. HORNS FOR AUTOMOBILES. ILLINOIS BRASS MANUFACTURING CO., Chicago, Ill.
Filed November 24, 1926. Serial No. 240,548. PUBLISHED JANUARY 4, 1927. Class 23.

244,283. MACHINES FOR CUTTING OR PUNCHING SHEET METAL. ANDREW C. CAMPBELL, INCORPORATED, Waterbury, Conn.
Filed December 1, 1926. Serial No. 240,803. PUBLISHED MAY 1, 1928. Class 23.

244,284. MARSHMALLOWS. THE RICHLITE PRODUCTS Co., Cleveland, Ohio.
Filed December 18, 1926. Serial No. 241,678. PUBLISHED DECEMBER 27, 1927. Class 46.

244,285. TOILET PREPARATIONS—NAMELY, SKIN LOTION, DANDRUFF LOTION, PREPARATIONS FOR THE SKIN, VANISHING CREAM, TOILET WATER, AFTER-SHAVING CREAM, PERFUME, HAIR OIL, HAIR TONIC, FACE POWDER, TOOTH PASTE, BATH SALTS, AND LIP STICK. SEPTIMUS VALENTINE RODGERSON, Montreal, Quebec, Canada.
Filed December 22, 1926. Serial No. 241,844. PUBLISHED MAY 8, 1928. Class 6.

244,286. AUTOMOBILES AND MOTOR TRUCKS. THE WHITE COMPANY, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio.
Filed January 31, 1927. Serial No. 243,634. PUBLISHED MAY 8, 1928. Class 19.

244,287. ICE CREAM, WATER ICE, SHERBET, FRESH OR PASTEURIZED MILK, FRESH OR PASTEURIZED CREAM, AND FRESH BUTTERMILK. SOUTHERN DAIRIES, INC., Washington, D. C.
Filed March 2, 1927. Serial No. 245,112. PUBLISHED MAY 8, 1928. Class 46.

244,288. ICE CREAM, WATER ICE, SHERBET, FRESH OR PASTEURIZED MILK, FRESH OR PASTEURIZED CREAM, AND FRESH BUTTERMILK. SOUTHERN DAIRIES, INC., Washington, D. C.
Filed March 2, 1927. Serial No. 245,113. PUBLISHED MAY 8, 1928. Class 46.

244,289. MANIFOLDING REGISTERS. AUTOGRAPHIC REGISTER COMPANY, Hoboken, N. J.
Filed March 4, 1927. Serial No. 245,184. PUBLISHED MAY 17, 1927. Class 37.

244,290. WRITING AND PRINTING PAPER. INTERNATIONAL PAPER COMPANY, New York, N. Y.
Filed March 28, 1927. Serial No. 246,479. PUBLISHED MAY 8, 1928. Class 37.

244,291. CANDY BAR MADE OF CHARLOTTE RUSSE CHOCOLATE COVERED. WILKES BARRE MAID CANDY COMPANY, INC., Wilkes-Barre, Pa.
Filed March 28, 1927. Serial No. 246,523. PUBLISHED MAY 10, 1927. Class 46.

244,292. FLYING MACHINES OF THE HEAVIER-THAN-AIR TYPE AND WINGS, VANES, BLADES, OR OTHER LIFTING OR SUPPORTING SURFACES THEREFOR. THE CIERVA AUTOGIRO CO. LTD., London, England.
Filed April 16, 1927. Serial No. 247,521. PUBLISHED MAY 8, 1928. Class 19.

244,293. HAMS, BACON, LARD, SAUSAGE, AND BEEF CRACKLINGS AND PORK CRACKLINGS FOR FOOD PURPOSES. SIELOFF PACKING COMPANY, St. Louis, Mo.
Filed April 21, 1927. Serial No. 247,828. PUBLISHED MAY 8, 1928. Class 46.

244,294. METAL VALVES AND PARTS THEREOF—NAMELY, SEATS, SEAT RINGS, DISKS, DISK RINGS, PLUGS, WEDGES, STEMS, SPINDLES, BUSHINGS, SLEEVES, DASHPOTS, BOLTS, STUDS, NUTS, GLANDS, UNION NUTS, DISK NUTS, GLAND NUTS, PIPE PLUGS, BODIES, BONNET PILLARS, BONNETS, AND CROSS YOKES. THE EDWARD VALVE AND MANUFACTURING Co., East Chicago, Ind.
Filed April 29, 1927. Serial No. 248,164. PUBLISHED MAY 8, 1928. Class 13.

244,295. AUTOMOBILE SPRING SEATS. WEICKMAN SEAT CO., New York, N. Y.
Filed May 10, 1927. Serial No. 248,802. PUBLISHED MAY 8, 1928. Class 19.

244,296. MALT SYRUPS. SOREN J. HEIBERG COMPANY, INC., Chicago, Ill.
Filed March 14, 1928. Serial No. 263,150. PUBLISHED MAY 8, 1928. Class 46.

244,297. SOAP. RICHARD HUDNUT, New York, N. Y.
Filed March 14, 1928. Serial No. 263,153. PUBLISHED MAY 8, 1928. Class 4.

244,298. MERCHANDISING PUBLICATION ISSUED A NUMBER OF TIMES EACH YEAR. MISSOURI AGRICULTURAL PUBLISHING COMPANY, St. Louis, Mo.
Filed March 14, 1928. Serial No. 263,171. PUBLISHED MAY 1, 1928. Class 38.

244,299. MACARONI, SPAGHETTI, NOODLES, CORN FLAKES, AND ROLLED OATS. J. T. FARGASON GROCER CO., Memphis, Tenn.
Filed March 15, 1928. Serial No. 263,206. PUBLISHED MAY 8, 1928. Class 46.

244,300. TWINE. SERVICE GROCER COMPANY, INC., Detroit, Mich.
Filed March 15, 1928. Serial No. 263,230. PUBLISHED MAY 1, 1928. Class 7.

244,301. POWDERED LAUNDRY SOAP. JOHN R. MITCHELL & SON INC., Brooklyn, N. Y.
Filed March 10, 1928. Serial No. 263,250. PUBLISHED MAY 8, 1928. Class 4.

244,302. SHOE-SHINE CABINETS OF ALL KINDS AND DESCRIPTIONS. GRIFFIN MANUFACTURING COMPANY, INC., New York, N. Y.
Filed March 16, 1928. Serial No. 263,264. PUBLISHED MAY 1, 1928. Class 32.

244,303. PERIODICAL. THOMAS S. MCGRATH, doing business as Tasam Publishing Company, Washington, D. C.
Filed March 16, 1928. Serial No. 263,276. PUBLISHED MAY 1, 1928. Class 38.

244,304. INSECTICIDE. LOUIS MANDLAK, doing business as Crusader Products Co., Amarillo, Tex.
Filed March 17, 1928. Serial No. 263,326. PUBLISHED MAY 8, 1928. Class 6.

244,305. MONTHLY PERIODICAL. SUPERINTENDENTS FORUM, INC., New York, N. Y.
Filed March 17, 1928. Serial No. 263,358. PUBLISHED MAY 1, 1928. Class 38.

244,306. LAXATIVE TONICS. ANDREW W. HURST, doing business as J. D. Burke Drug Co., Montgomery, Ala.
Filed March 19, 1928. Serial No. 263,403. PUBLISHED MAY 8, 1928. Class 6.

244,307. RECORDING APPARATUS, PARTICULARLY APPARATUS FOR RECORDING THE CONSTITUTION OF FURNACE GASES, SUCH AS CARBON DIOXIDE. THE PERMUTIT COMPANY, New York, N. Y.
Filed March 19, 1928. Serial No. 263,420. PUBLISHED MAY 1, 1928. Class 26.

244,308. PERIODICAL. PETROLEUM WORLD PUBLISHING Co., Los Angeles, Calif.
Filed March 19, 1928. Serial No. 263,421. PUBLISHED MAY 1, 1928. Class 38.

244,309. SKIN LOTION. BRUNO E. REICH, doing business as Willow Springs Laboratories, Spring Forest, Ill.
Filed March 19, 1928. Serial No. 263,426. PUBLISHED MAY 1, 1928. Class 6.

244,310. OLIVE OIL. TAORMINA BROS., New Orleans, La.
Filed March 19, 1928. Serial No. 263,444. PUBLISHED MAY 8, 1928. Class 46.

244,311. MALT SYRUP. UNITED PURCHASING CO., Chicago, Ill.
Filed March 19, 1928. Serial No. 263,447. PUBLISHED MAY 8, 1928. Class 46.

244,312. POLISH FOR COPPER, BRASS, AND NICKEL ARTICLES. ABRAM WHITE, Charlotte, N. C.
Filed March 19, 1928. Serial No. 263,450. PUBLISHED MAY 8, 1928. Class 4.

244,313. MALT SYRUP. THE ITALIAN SUPPLY CO., Lock Haven, Pa.
Filed March 20, 1928. Serial No. 263,473. PUBLISHED MAY 8, 1928. Class 46.

244,314. POLISHING DEVICE COMPRISING STEEL WOOL AND A POLISHING PASTE. WHISKETTE MFG. CO., Philadelphia, Pa.
Filed March 20, 1928. Serial No. 263,525. PUBLISHED MAY 8, 1928. Class 4.

244,315. OILCLOTH AND OILCLOTH TABLE COVERS. THE STANDARD TEXTILE PRODUCTS COMPANY, New York, N. Y.
Filed March 21, 1928. Serial No. 263,565. PUBLISHED MAY 8, 1928. Class 20.

244,316. DESKS, SECRETARIES, CHESTS OF DRAWERS, HIGHBOYS, LIBRARY AND SECTIONAL BOOKCASES, DINING-ROOM SUITS, AND CHAIRS, TABLES, AND CABINETS FOR HOUSEHOLD AND OFFICE USE. THE SKANDIA FURNITURE COMPANY OF ROCKFORD ILLINOIS, Rockford, Ill.
Filed March 22, 1928. Serial No. 263,623. PUBLISHED MAY 8, 1928. Class 32.

244,317. NONINTOXICATING, MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT OF ALCOHOL PER VOLUME. GOTTFRIED KRUEGER BREWING CO., Newark, N. J.
Filed March 7, 1928. Serial No. 262,711. PUBLISHED MAY 8, 1928. Class 48.

244,318. RADIATOR SCREENS. IRVING JACKSON, doing business as Artcraft Radiator Enclosure Co., New York, N. Y.
Filed March 7, 1928. Serial No. 262,714. PUBLISHED MAY 8, 1928. Class 32.

244,319. PICTURE FRAMES. THE CAMEO FRAME COMPANY, Chicago, Ill.
Filed March 9, 1928. Serial No. 262,841. PUBLISHED MAY 8, 1928. Class 32.

244,320. CHEMICALS, ALDEHYDES, ALCOHOLS, ETC. HEINE & Co., New York, N. Y.
Filed March 9, 1928. Serial No. 262,846. PUBLISHED MAY 8, 1928. Class 6.

244,321. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, ETC. PARFUMERIE ST. DENIS, New York, N. Y.
Filed March 9, 1928. Serial No. 262,868. PUBLISHED MAY 8, 1928. Class 6.

244,322. SOAP POWDER. SAMUEL H. ALLEN, doing business as The Allendi Soap Powder Co., Dallas, Tex.
Filed March 10, 1928. Serial No. 262,884. PUBLISHED MAY 8, 1928. Class 4.

244,323. CHOCOLATE COATING FOR ICE CREAM. CREMO POP CORPORATION, New York, N. Y.
Filed March 10, 1928. Serial No. 262,901. PUBLISHED MAY 8, 1928. Class 46.

244,324. FLAVORING EXTRACTS AND CONCENTRATED SYRUPS FOR MAKING SODA WATER AND OTHER NONALCOHOLIC BEVERAGES, PARTICULARLY GINGER ALE. J. F. LAZIER MANUFACTURING CO., INC., St. Louis, Mo.
Filed March 10, 1928. Serial No. 262,919. PUBLISHED MAY 8, 1928. Class 45.

244,325. STOVE AND METAL POLISH. THE GREAT AMERICAN TEA CO., New York, N. Y.
Filed March 10, 1928. Serial No. 262,959. PUBLISHED APRIL 24, 1928. Class 4.

244,326. MATCHES. JÖNKÖPINGS OCH VULCANS TÄNDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed March 10, 1928. Serial No. 262,964. PUBLISHED MAY 1, 1928. Class 9.

244,327. MALT SYRUP. M. MARGOLIS, doing business as Crown Bottle Supply, Los Angeles, Calif.
Filed March 12, 1928. Serial No. 263,006. PUBLISHED MAY 1, 1928. Class 46.

244,328. TIRE COVERS. HUPP MOTOR CAR CORPORATION, Richmond, Va., and Detroit, Mich.
Filed March 12, 1928. Serial No. 263,042. PUBLISHED MAY 1, 1928. Class 35.

244,329. WASHING COMPOUND. THE BAKER-FINLEY CHEMICAL COMPANY, Cleveland, Ohio.
Filed March 13, 1928. Serial No. 263,066. PUBLISHED APRIL 24, 1928. Class 4.

244,330. PERIODICAL. THE GAGE PUBLISHING COMPANY, INC., New York, N. Y.
Filed March 13, 1928. Serial No. 263,081. PUBLISHED MAY 1, 1928. Class 38.

244,331. MALT EXTRACT. PAUL G. HAUSCHILDT, Jamaica Plain, Mass.
Filed March 14, 1928. Serial No. 263,120. PUBLISHED MAY 1, 1928. Class 46.

244,332. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 14, 1928. Serial No. 263,138. PUBLISHED MAY 1, 1928. Class 42.

244,333. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 14, 1928 Serial No. 263,139. PUBLISHED MAY 1, 1928. Class 42.

244,334. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 14, 1928. Serial No. 263,140. PUBLISHED MAY 1, 1928. Class 42.

244,335. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 14, 1928. Serial No. 263,141. PUBLISHED MAY 1, 1928. Class 42.

244,336. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 14, 1928. Serial No. 263,142. PUBLISHED MAY 1, 1928. Class 42.

244,337. CLEANING FLUID FOR REMOVING SPOTS FROM FABRICS AND CLOTHING, ALSO FOR CLEANING TYPE ON TYPEWRITERS. KLINK PRODUCTS CORPORATION, Brooklyn, N. Y.
Filed March 24, 1928. Serial No. 263,707. PUBLISHED MAY 8, 1928. Class 4.

244,338. THREADS AND YARNS OF COTTON, WOOL, SILK, RAYON, AND/OR COMBINATIONS THEREOF. FRED BUTTERFIELD & CO., INC., New York, N. Y.
Filed April 4, 1928. Serial No. 264,280. PUBLISHED MAY 8, 1928. Class 43.

244,339. HAND, OVERNIGHT, AND TRAVELING BAGS; SUITCASES, PORTFOLIOS, POCKETBOOKS, HATBOXES FOR TRAVELING, PURSES, CARDCASES, KEY CONTAINERS OF LEATHER, LEATHER SUBSTITUTES, AND/OR COMBINATIONS THEREOF; TOILET AND TRAVELING KITS WITHOUT FITTINGS (FITTED AND UNFITTED), VIOLIN CASES, AND CASES FOR OTHER MUSICAL INSTRUMENTS, ALL OF LEATHER, FABRIC, OR IMITATION LEATHER OR COMBINATIONS THEREOF. P. CENTEMERI & CO., New York, N. Y.
Filed January 14, 1928. Serial No. 260,091. PUBLISHED MAY 8, 1928. Class 3.

244,340. HAND, OVERNIGHT, AND TRAVELING BAGS; SUITCASES, PORTFOLIOS, POCKETBOOKS, HATBOXES FOR TRAVELING, PURSES, CARDCASES, KEY CONTAINERS OF LEATHER, LEATHER SUBSTITUTES, AND/OR COMBINATIONS THEREOF; TOILET AND TRAVELING KITS WITHOUT FITTINGS (FITTED AND UNFITTED), VIOLIN CASES, AND CASES FOR OTHER MUSICAL INSTRUMENTS, ALL OF LEATHER, FABRIC, OR IMITATION LEATHER OR COMBINATIONS THEREOF. P. CENTEMERI & CO., New York, N. Y.
Filed January 14, 1928. Serial No. 260,095. PUBLISHED MAY 8, 1928. Class 3.

244,341. FRUIT PRESERVES, FRUIT JELLIES, AND TABLE SYRUPS. GRIGGS, COOPER & COMPANY, St. Paul, Minn.
Filed January 14, 1928. Serial No. 260,114. PUBLISHED MAY 8, 1928. Class 46.

244,342. FRUIT PRESERVES, JELLIES, TABLE SYRUP, OLIVES, APPLE BUTTER, VINEGAR, AND PEANUT BUTTER. GRIGGS, COOPER & COMPANY, St. Paul, Minn.
Filed January 14, 1928. Serial No. 260,120. PUBLISHED MAY 8, 1928. Class 46.

244,343. COMPOUND FOR THE TREATMENT OF STOMACH, LIVER, KIDNEYS, AND BOWELS, RHEUMATISM, NERVOUSNESS, AND GENERAL RUN-DOWN CONDITION OF THE SYSTEM. NUERB MEDICINE COMPANY, New Haven, Conn.
Filed January 14, 1928. Serial No. 260,131. PUBLISHED MAY 1, 1928. Class 6.

244,344. CITRUS FRUITS—NAMELY, FRESH ORANGES AND GRAPEFRUIT. THOMAS PERRY LIPPITT, Washington, D. C., and San Juan, Porto Rico.
Filed January 16, 1928. Serial No. 260,181. PUBLISHED MAY 1, 1928. Class 46.

244,345. SOAP FLAKES. H. KOHNSTAMM & CO., INC., New York, N. Y.
Filed January 18, 1928. Serial No. 260,280. PUBLISHED APRIL 24, 1928. Class 4.

244,346. DISHWASHING MACHINES. JAMES JOSEPH KEHOE, Toronto, Ontario, Canada.
Filed January 20, 1928. Serial No. 260,391. PUBLISHED MAY 1, 1928. Class 23.

244,347. CANNED FRUITS, CANNED VEGETABLES, COFFEE, AND PEANUT BUTTER. ALTON MERCANTILE COMPANY, Enid, Okla.
Filed January 21, 1928. Serial No. 260,420. PUBLISHED MAY 1, 1928. Class 46.

244,348. TOILET PAPER. FINKEL PAPER COMPANY, Brooklyn, N. Y.
Filed January 24, 1928. Serial No. 260,563. PUBLISHED MAY 1, 1928. Class 37.

244,349. LAUNDRY WASHING MACHINES. ALTORFER BROS. COMPANY, East Peoria, Ill.
Filed January 25, 1928. Serial No. 230,612. PUBLISHED MAY 8, 1928. Class 24.

244,350. MEDICINAL LOTION AND MEDICINAL CREAM USED FOR THE TREATMENT OF ACNE, ECZEMA, RINGWORM, ITCH, AND LIKE SKIN DISEASES. ROBB MAUZY WINSBOROUGH, doing business as Robb Laboratory, Shreveport, La.
Filed January 25, 1928. Serial No. 260,662. PUBLISHED MAY 1, 1928. Class 6.

244,351. THERMALLY-INSULATED METALLIC SHIPPING CASES. ORLANDO C. BOWES, Pittsburgh, Pa., doing business as Clecold Container Company, Oakland Station, Pa.
Filed January 26, 1928. Serial No. 260,671. PUBLISHED MAY 1, 1928. Class 2.

244,352. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. EVAN FISHER, Cleveland, Ohio.
Filed January 26, 1928. Serial No. 260,679. PUBLISHED MAY 8, 1928. Class 45.

244,353. LARD, OLEO OILS FOR FOOD PURPOSES, POULTRY AND STOCK FEEDS, GELATINE, STEARINE MADE FROM EDIBLE FATS AND USED AS AN INGREDIENT OF SHORTENING; MEAT PRODUCTS FOR FOOD PURPOSES—NAMELY, COOKED MEAT, WHOLE OR GROUND, TO BE USED FOR POULTRY AND STOCK FOOD; AND BONE PRODUCTS FOR FOOD PURPOSES—NAMELY, COOKED BONE, WHOLE OR GROUND, TO BE USED FOR POULTRY AND STOCK FOOD. CONSOLIDATED RENDERING COMPANY, doing business as Atlantic Packing Company, Boston, Mass.
Filed January 28, 1928. Serial No. 260,807. PUBLISHED MAY 8, 1928. Class 46.

244,354. LINIMENTS FOR THE TREATMENT OF RHEUMATISM, NEURALGIA, NUMBNESS, SORE MUSCLES, SWELLINGS, SPRAINS, STIFF JOINTS, SCIATICA, LUMBAGO, LA GRIPPE, COLDS, AND TIRED ACHING FEET, AND COUGH SYRUPS. LOUIS NATHAN HELBRAUN, doing business as The L. N. H. Chemical Co., Chicago, Ill.
Filed January 28, 1928. Serial No. 260,823. PUBLISHED MAY 1, 1928. Class 6.

244,355. REMOVABLE TEXTILE SEAT COVERS. THE S. E. HYMAN COMPANY, Fremont, Ohio.
Filed January 28, 1928. Serial No. 260,827. PUBLISHED MAY 8, 1928. Class 42.

244,356. APPARATUS FOR MEASURING THE QUANTITY OF X RAYS, LIGHT RAYS, HEAT RAYS, AND THE LIKE. SIEGMUND STRASS, Vienna, Austria.
Filed January 28, 1928. Serial No. 260,860. PUBLISHED MAY 1, 1928. Class 26.

244,357. APPARATUS FOR MECHANICAL HANDLING OF BULK AND PACKAGED MATERIAL—NAMELY, CHAIN, BELT, SCREW, TROLLEY, AND AIR DRIVEN CONVEYORS, CHAIN ELEVATORS, BELT ELEVATORS, MONORAILS, TROLLEYS, HOISTS, AND DRIVE UNITS. MECHANICAL HANDLING SYSTEMS, INCORPORATED, Detroit, Mich.
Filed January 30, 1928. Serial No. 260,898. PUBLISHED MAY 3, 1928. Class 23.

244,358. RAILWAY-CAR SAFETY TREADS, ALUMINUM AND STEEL RAILWAY-CAR DOORS, PASSENGER-CAR INTERIOR STEEL FURNISHINGS, FOLDING TAIL GATES, UPPER BUFFER MECHANISMS FOR DIAPHRAGM FACE PLATES, VESTIBULE CURTAINS, RAILWAY-CAR-WINDOW CURTAINS, RAILWAY-CAR-WINDOW FIXTURES, AND VESTIBULE DIAPHRAGMS. MORTON MANUFACTURING COMPANY, Chicago, Ill.
Filed January 30, 1928. Serial No. 260,900. PUBLISHED MAY 1, 1928. Class 19.

244,359. RUBBISH INCINERATORS AND PARTS THEREOF. SAFETY CONCRETE INCINERATOR COMPANY, Los Angeles, Calif.
Filed January 30, 1928. Serial No. 260,914. PUBLISHED MAY 1, 1928. Class 34.

244,360. AUTOMOBILE SEAT COVERS. UNIVERSAL AUTO FABRICS MFG. CO., Chicago, Ill.
Filed February 18, 1928. Serial No. 261,919. PUBLISHED MAY 1, 1928. Class 19.

244,361. GARBAGE AND REFUSE RECEPTACLES, BREAD BOXES, CANISTERS, FLOUR CANS, AND CLOTHES HAMPERS, ALL MADE FROM SHEET METAL. RECEPTO MFG. CO., INC., New York, N. Y.
Filed January 31, 1928. Serial No. 260,956. PUBLISHED MAY 8, 1928. Class 2.

244,362. SALAD OIL, A COTTONSEED PRODUCT. I. ROKEACH & SONS, INC., Brooklyn, N. Y.
Filed January 31, 1928. Serial No. 260,957. PUBLISHED MAY 1, 1928. Class 46.

244,363. ROASTED COFFEE. THE ENNIS-HANLEY-BLACKBURN COFFEE CO., Kansas City, Mo.
Filed March 8, 1928. Serial No. 262,800. PUBLISHED MAY 1, 1928. Class 46.

244,364. SHEETS, PILLOWCASES, AND SHEETING. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va.
Filed March 7, 1928. Serial No. 262,770. PUBLISHED MAY 1, 1928. Class 42.

244,365. NONINTOXICATING, MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT OF ALCOHOL PER VOLUME. GOTTFRIED KRUEGER BREWING CO., Newark, N. J.
Filed March 7, 1928. Serial No. 262,712. PUBLISHED MAY 8, 1928. Class 48.

244,366. COOKIES. CAP SHEAF BREAD COMPANY, St. Louis, Mo.
Filed March 7, 1928. Serial No. 262,694. PUBLISHED MAY 1, 1928. Class 46.

244,367. CANDY. C. E. GHEENS, doing business as Bradas & Gheens, Louisville, Ky.
Filed March 3, 1928. Serial No. 262,560. PUBLISHED MAY 1, 1928. Class 46.

244,368. FERTILIZER. SYNTHETIC NITROGEN PRODUCTS CORPORATION, New York, N. Y.
Filed March 2, 1928. Serial No. 262,535. PUBLISHED MAY 8, 1928. Class 10.

244,369. FERTILIZER. SYNTHETIC NITROGEN PRODUCTS CORPORATION, New York, N. Y.
Filed March 2, 1928. Serial No. 262,534. PUBLISHED MAY 1, 1928. Class 10.

244,370. MOTOR BOATS. DOWN EAST BOAT CORPORATION, Camden, Me.
Filed March 2, 1928. Serial No. 262,511. PUBLISHED MAY 8, 1928. Class 19.

244,371. CERTAIN THREAD AND YARNS. N. V. NEDERLANDSCHE KUNSTZIJDEFABRIEK, Arnhem, Netherlands.
Filed September 8, 1927. Serial No. 254,502. PUBLISHED MAY 1, 1928. Class 43.

244,372. CERTAIN NAMED PIECE GOODS. N. V. NEDERLANDSCHE KUNSTZIJDEFABRIEK, Arnhem, Netherlands.
Filed September 8, 1927. Serial No. 254,500. PUBLISHED MAY 1, 1928. Class 42.

244,373. FRESH CITRUS FRUITS—NAMELY, ORANGES, LEMONS—AND FRESH VEGETABLES. RANDOLPH MARKETING COMPANY, Riverside, Calif.
Filed September 7, 1927. Serial No. 254,474. PUBLISHED MAY 8, 1928. Class 46.

244,374. GAS RANGES AND PARTS THEREOF. CRIBBEN & SEXTON CO., Chicago, Ill.
Filed September 6, 1927. Serial No. 254,385. PUBLISHED MAY 1, 1928. Class 34.

244,375. FRESH VEGETABLES—NAMELY, ASPARAGUS. GEORGE J. HOLLENBECK, Sacramento, Calif.
Filed September 2, 1927. Serial No. 254,281. PUBLISHED MAY 1, 1928. Class 46.

244,376. CANNED SARDINES. THE R. B. BOAK COMPANY, Chicago, Ill.
Filed August 31, 1927. Serial No. 254,167. PUBLISHED MAY 1, 1928. Class 46.

244,377. CERTAIN NAMED PIECE GOODS. N. V. NEDERLANDSCHE KUNSTZIJDEFABRIEK, Arnhem, Netherlands.
Filed August 30, 1927. Serial No. 254,147. PUBLISHED MAY 1, 1928. Class 42.

244,378. CERTAIN THREAD AND YARNS. N. V. NEDERLANDSCHE KUNSTZIJDEFABRIEK, Arnhem, Netherlands.
Filed August 30, 1927. Serial No. 254,145. PUBLISHED MAY 1, 1928. Class 43.

244,379. BINDING FOR BANK CHECKS, PRINTED FORMS, AND OTHER SHEETS. BENJAMIN D. BENSON & SONS, INC., New York, N. Y.
Filed August 26, 1927. Serial No. 253,978. PUBLISHED MAY 1, 1928. Class 37.

244,380. AIR-FILTERING SCREENS FOR VENTILATING SYSTEMS. AIR FILTRATION CORPORATION, New York, N. Y.
Filed August 20, 1927. Serial No. 253,732. PUBLISHED MAY 8, 1928. Class 34.

244,381. PERFUMES, PERFUME EXTRACTS, BATH SALTS, TALCUM POWDERS, FACE POWDER, BODY POWDER, DUSTING POWDER, SACHET POWDER, TOILET WATER, TOILET CREAMS, BRILLIANTINE, HAIR TONICS, LIP STICKS, ROUGE, POWDER COMPACTS, BULK PERFUMES, ROUGE COMPACTS, EYEBROW PENCILS, VANISHING CREAMS, CLEANSING CREAMS, SHAMPOO POWDERS, EAU DE COLOGNE; BODY, FACE, FOOT, HAND, AND HEAD LOTIONS. D'ORSAY PERFUMERIES CORPORATION, New York, N. Y.
Filed August 11, 1927. Serial No. 253,317. PUBLISHED MAY 1, 1928. Class 6.

244,382. CANNED FRUITS—NAMELY, PEACHES, PEARS, AND APRICOTS; CANNED VEGETABLES—NAMELY, BEANS, PEAS, AND SPINACH; CANNED FISH—NAMELY, SALMON, SARDINES, AND TUNA. CALIFORNIA CO-OPERATIVE PRODUCERS, Oakland, Calif.
Filed August 11, 1927. Serial No. 253,305. PUBLISHED MAY 8, 1928. Class 46.

244,383. CANNED FRUITS—NAMELY, PEACHES, PEARS, AND APRICOTS; CANNED VEGETABLES—NAMELY, BEANS, PEAS, AND SPINACH; CANNED FISH—NAMELY, SALMON, SARDINES, AND TUNA. CALIFORNIA CO-OPERATIVE PRODUCERS, Oakland, Calif.
Filed August 11, 1927. Serial No. 253,304. PUBLISHED MAY 8, 1928. Class 46.

244,384. COVER PAPER, BLOTTING PAPER, BOX PAPER, INDEX BRISTOL, AND BOOK PAPER. DISTRICT OF COLUMBIA PAPER MANUFACTURING COMPANY, Washington, D. C.
Filed November 19, 1927. Serial No. 257,789. PUBLISHED MAY 1, 1928. Class 37.

244,385. MALT SYRUP. THE STROH PRODUCTS COMPANY, Detroit, Mich.
Filed November 11, 1927. Serial No. 257,454. PUBLISHED APRIL 3, 1928. Class 46.

244,386. CALCULATING MACHINES. RELIABLE TYPEWRITER & ADDING MACHINE CORPORATION, Chicago, Ill.
Filed November 7, 1927. Serial No. 257,196. PUBLISHED MAY 8, 1928. Class 26.

244,387. FRESH PEARS AND FRESH DECIDUOUS FRUITS. THE PALMER CORPORATION, Medford, Oreg., and Chicago, Ill.
Filed November 7, 1927. Serial No. 257,191. PUBLISHED MAY 8, 1928. Class 46.

244,388. FRESH PEARS AND FRESH DECIDUOUS FRUITS. THE PALMER CORPORATION, Medford, Oreg., and Chicago, Ill.
Filed November 7, 1927. Serial No. 257,190. PUBLISHED MAY 8, 1928. Class 46.

244,389. HARD-BAKED WHEAT FLOUR, GROUND UP INTO GRANULES AND USED AS A FILLER OR INGREDIENT IN SAUSAGE OR OTHER FOODSTUFF. FRANK H. LOCKYER SUPPLY CO. LIMITED, Liverpool, England.
Filed November 7, 1927. Serial No. 257,169. PUBLISHED MAY 8, 1928. Class 46.

244,390. SILK PIECE GOODS, SILKS AND METAL, AND VELVETS, AND METAL IN THE PIECE. COUDURIER, FRUCTUS & DESCHER, Lyon, France.
Filed November 4, 1927. Serial No. 257,054. PUBLISHED MAY 8, 1928. Class 42.

244,391. AUTOMOBILE BODY HARDWARE—NAMELY, REAR DECK LOCKS FOR AUTOMOBILES, OPEN AND CLOSED BODY DOOR LOCKS, REAR-QUARTER SASH LOCKS, DOOR-LOCK HANDLES AND PARTS, AND DOOR-LOCK STRIKER PLATES. TERNSTEDT MANUFACTURING COMPANY, Detroit, Mich.
Filed October 31, 1927. Serial No. 256,843. PUBLISHED MAY 1, 1928. Class 25.

244,392. AUTOMOBILE BODY HARDWARE—NAMELY, DOORCHECKS, STRAP HINGES, REAR DECK HINGES, CONCEALED HINGES, PIANO HINGES, REAR DECK LID BRACES; SCREW-MACHINE PRODUCTS—NAMELY, STUDS, SCREWS, AND NUTS. TERNSTEDT MANUFACTURING COMPANY, Detroit, Mich.
Filed October 31, 1927. Serial No. 256,840. PUBLISHED MAY 1, 1928. Class 13.

244,393. AUTOMOBILE BODY HARDWARE. TERNSTEDT MANUFACTURING COMPANY, Detroit, Mich.
Filed October 31, 1927. Serial No. 256,839. PUBLISHED MAY 1, 1928. Class 19.

244,394. SOAP. BOURJOIS, INC., New York, N. Y.
Filed October 22, 1927. Serial No. 256,444. PUBLISHED MAY 1, 1928. Class 4.

244,395. INSECTICIDES. FRANK B. NOBREGA, doing business as Central Chemical Company, Kansas City, Mo.
Filed October 14, 1927. Serial No. 256,086. PUBLISHED MAY 8, 1928. Class 6.

244,396. KRAUT JUICE, DILL PICKLES, CHOWCHOW, SWEET RELISH, PRESERVED PEPPER RELISH, SOUR PICKLED ONIONS, SWEET PICKLED ONIONS, SWEET GHERKINS, SOUR GHERKINS, SWEET MIXED PICKLES, SOUR MIXED PICKLES, SOUR GURKEN (SLICED CUCUMBERS), PRESERVED SANDWICH PICKLES, SPICED SANDWICH PICKLES, SWEET CHOWCHOW, AND HORSE-RADISH. RECHT & ROSENBAUM, INC., doing business as Empire Pickle Works, New York, N. Y.
Filed October 12, 1927. Serial No. 256,011. PUBLISHED MAY 1, 1928. Class 46.

244,397. DETOXIFYING AGENT FOR ORAL PROPHYLAXIS, FOR TREATMENT OF INFECTIONS OF THE MOUTH, FOR USE AS A DENTIFRICE, AND FOR OTHER APPLICATION TO THE HUMAN BODY. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed October 12, 1927. Serial No. 256,002. PUBLISHED MAY 1, 1928. Class 6.

244,398. FERTILIZERS. JOHN WERE and RUSSELL D. WHITE, Youngstown, Ohio.
Filed October 10, 1927. Serial No. 255,884. PUBLISHED MAY 8, 1928. Class 10.

244,399. MATTRESSES, BED SPRINGS, CUSHIONS, AND PILLOWS. ELLISON FURNITURE & CARPET CO., Fort Worth, Tex.
Filed October 1, 1927. Serial No. 255,503. PUBLISHED MAY 8, 1928. Class 32.

244,400. COLD CREAM. POND'S EXTRACT COMPANY, New York, N. Y.
Filed September 30, 1927. Serial No. 255,467. PUBLISHED MAY 8, 1928. Class 6.

244,401. VANISHING CREAM. POND'S EXTRACT COMPANY, New York, N. Y.
Filed September 30, 1927. Serial No. 255,466. PUBLISHED MAY 8, 1928. Class 6.

244,402. FLOUR SIFTERS. UNEEK UTILITIES CORPORATION, Chicago, Ill.
Filed September 28, 1927. Serial No. 255,361. PUBLISHED MAY 1, 1928. Class 23.

244,403. ENVELOPES MADE OF PAPER FOR CARRYING CORRESPONDENCE AND ARTICLES OF MERCHANDISE SUCH AS CATALOGS AND BOOKLETS. BUFFALO ENVELOPE COMPANY, INC., Buffalo, N. Y.
Filed September 23, 1927. Serial No. 255,095. PUBLISHED MAY 8, 1928. Class 37.

244,404. TWINES. HUGHES FAWCETT INC., New York, N. Y.
Filed January 11, 1928. Serial No. 259,958. PUBLISHED MAY 1, 1928. Class 7.

244,405. CLOTHING RACKS. ALENE L. AUSTRIAN, New York, N. Y.
Filed January 11, 1928. Serial No. 259,937. PUBLISHED MAY 1, 1928. Class 32.

244,406. UMBRELLAS AND PARASOLS. ROSE BROTHERS COMPANY, Lancaster, Pa.
Filed January 6, 1928. Serial No. 259,783. PUBLISHED APRIL 3, 1928. Class 41.

244,407. SAUCES—NAMELY, A CHOCOLATE-FLAVORED SAUCE AND A COCOA-FLAVORED SAUCE. THE PANGO MILK CHOCOLATE CO., Toledo, Ohio.
Filed January 6, 1928. Serial No. 259,781. PUBLISHED MAY 1, 1928. Class 46.

244,408. COTTON, SILK, AND ARTIFICIAL-SILK FABRICS AND COMBINATIONS OF THE SAME. TURNER & VANDAM INC., New York, N. Y.
Filed March 27, 1928. Serial No. 263,842. PUBLISHED MAY 8, 1928. Class 42.

244,409. SILK GOODS IN THE PIECE. ADOLPHE RUSCH, JR., doing business as A. Rusch Jr. Silk Mills, New York, N. Y.
Filed March 27, 1928. Serial No. 263,831. PUBLISHED MAY 1, 1928. Class 42.

244,410. SHEETS AND PILLOWCASES AND COTTON PIECE GOODS. NAUMKEAG STEAM COTTON COMPANY, Salem, Mass.
Filed March 26, 1928. Serial No. 263,780. PUBLISHED MAY 1, 1928. Class 42.

244,411. TEXTILE RUGS. CARTER BROTHERS, Chattanooga, Tenn.
Filed March 26, 1928. Serial No. 263,750. PUBLISHED MAY 1, 1928. Class 42.

244,412. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. ROBERT ARNOLD REID, doing business as David City Bottling Works, David City, Nebr.
Filed March 24, 1928. Serial No. 263,725. PUBLISHED MAY 8, 1928. Class 45.

244,413. MEAT, VEGETABLE, AND FOOD CHOPPERS; PRUNERS; TINNER, JEWELER, RUBBER, AND AUTOMOBILE SNIPS; SCISSORS, SHEARS, RAZORS, AND HAND KNIVES. THE HENKEL-CLAUSS CO., Fremont, Ohio.
Filed March 24, 1928. Serial No. 263,701. PUBLISHED MAY 8, 1928. Class 23.

244,414. COTTON PIECE GOODS. CARTER DRY GOODS CO., Louisville, Ky.
Filed March 24, 1928. Serial No. 263,687. PUBLISHED MAY 1, 1928. Class 42.

244,415. CANDY. CARPENTER COOK CO., doing business as Michigan Candy Co., Menominee, Mich.
Filed March 24, 1928. Serial No. 263,685. PUBLISHED MAY 8, 1928. Class 46.

244,416. TERRY LOOPED FABRICS. STARR KNITTING MILLS, INC., Pleasantville, N. J.
Filed March 22, 1928. Serial No. 263,625. PUBLISHED MAY 1, 1928. Class 42.

244,417. ENVELOPES MADE OF PAPER FOR CARRYING CORRESPONDENCE AND ARTICLES OF MERCHANDISE SUCH AS CATALOGS AND BOOKLETS. BUFFALO ENVELOPE COMPANY, INC., Buffalo, N. Y.
Filed September 23, 1927. Serial No. 255,094. PUBLISHED MAY 8, 1928. Class 37.

244,418. REFRIGERATORS. SEEGER REFRIGERATOR COMPANY, St. Paul, Minn.
Filed September 21, 1927. Serial No. 255,034. PUBLISHED MAY 1, 1928. Class 31.

244,419. MACHINES FOR MAKING POCKET MIRRORS AND SIMILAR ARTICLES. JULIUS ABRAHAMS, doing business as Philadelphia Badge Co., Philadelphia, Pa.
Filed September 20, 1927. Serial No. 254,954. PUBLISHED MAY 8, 1928. Class 23.

244,420. WEEKLY PUBLICATION. LOOSELEAF EDUCATION, INC., Columbus, Ohio.
Filed September 19, 1927. Serial No. 254,921. PUBLISHED APRIL 24, 1928. Class 38.

244,421. CEREAL BREAKFAST FOOD. RED RIVER GRAIN COMPANY LIMITED, Winnipeg, Manitoba, Canada.
Filed September 9, 1927. Serial No. 254,561. PUBLISHED MAY 1, 1928. Class 46.

244,422. CERTAIN THREAD AND YARNS. N. V. NEDERLANDSCHE KUNSTZIJDEFABRIEK, Arnhem, Netherlands.
Filed September 8, 1927. Serial No. 254,506. PUBLISHED MAY 1, 1928. Class 43.

244,423. CERTAIN THREAD AND YARNS. N. V. NEDERLANDSCHE KUNSTZIJDEFABRIEK, Arnhem, Netherlands.
Filed September 8, 1927. Serial No. 254,504. PUBLISHED MAY 1, 1928. Class 43.

244,424. AUTOMOBILE TIRE TUBE AND TOP PATCHES. FRED SWAIN, doing business as Standard Auto Products Company, Ohio, Ill.
Filed December 2, 1927. Serial No. 258,360. PUBLISHED MAY 8, 1928. Class 35.

244,425. CREAMS, LOTIONS, POWDERS, ETC. MICKFELD H. TROSSY, doing business as Dr. M. H. Trossy, New York, N. Y.
Filed March 11, 1927. Serial No. 245,597. PUBLISHED MAY 8, 1928. Class 6.

244,426. POLISH FOR WINDOWS, SILVERWARE, PORCELAIN, AND OTHER GLASS OR METAL SURFACES. FINDLAY & COHEN, Philadelphia, Pa.
Filed August 2, 1927. Serial No. 252,897. PUBLISHED MAY 8, 1928. Class 4.

244,427. WATER SOFTENER. THE HYGIENIC PRODUCTS COMPANY, Canton, Ohio.
Filed August 1, 1927. Serial No. 252,846. PUBLISHED MAY 8, 1928. Class 6.

244,428. PRINTED BLANK FORMS. GILMAN FANFOLD CORPORATION, LTD., Niagara Falls, N. Y.
Filed August 1, 1927. Serial No. 252,834. PUBLISHED NOVEMBER 1, 1927. Class 37.

244,429. WATCH CRYSTALS. PRIDHAM B. DAVIS, Los Angeles, Calif.
Filed August 1, 1927. Serial No. 252,820. PUBLISHED MAY 1, 1928. Class 33.

244,430. WAXED PAPER AND TOILET PAPER. THE GREAT AMERICAN TEA CO., New York, N. Y.
Filed July 21, 1927. Serial No. 252,381. PUBLISHED APRIL 24, 1928. Class 37.

244,431. LINEN-FINISH PIECE GOODS. S. HANDAL & SONS, New York, N. Y.
Filed July 20, 1927. Serial No. 252,326. PUBLISHED MAY 1, 1928. Class 42.

244,432. DESK TOPS AND TABLE TOPS MANUFACTURED BY STRETCHING LINOLEUM OVER A SUITABLE BASE AND HOLDING THE SAME IN POSITION BY MEANS OF A FRAME ATTACHED TO SUCH BASE. M. REISCHMANN & SONS, New York, N. Y.
Filed July 19, 1927. Serial No. 252,289. PUBLISHED MAY 1, 1928. Class 32.

244,433. EVAPORATED MILK, CONDENSED MILK, SWEET MILK, CREAM, BUTTERMILK, AND POWDERED MILK. MISTLETOE CREAMERIES, Fort Worth, Tex.
Filed July 9, 1927. Serial No. 251,784. PUBLISHED MAY 1, 1928. Class 46.

244,434. CERTAIN ARTICLES OF CHINA, PORCELAIN, AND EARTHENWARE. CHAS. A. STEVENS & BROS., Chicago, Ill.
Filed July 6, 1927. Serial No. 251,581. PUBLISHED MAY 1, 1928. Class 30.

244,435. ALCOHOLIC PUNCH. CARL EDWARD CEDERLUND, doing business as J. Cederlunds Söner, Stockholm, Sweden.
Filed July 2, 1927. Serial No. 251,426. PUBLISHED MAY 8, 1928. Class 49.

244,436. SELF-RISING FLOUR. BLISH MILLING COMPANY, Seymour, Ind.
Filed June 23, 1927. Serial No. 250,960. PUBLISHED MAY 1, 1928. Class 46.

244,437. CLEANSER AND GREASE SOLVENT FOR DISHWASHING, CLOTHES WASHING, AND HOUSE CLEANING. PEERLESS SOAP COMPANY, INC., Camden, N. J.
Filed June 16, 1927. Serial No. 250,634. PUBLISHED MAY 1, 1928. Class 4.

244,438. CANDY. GEORGE E. SMITH, doing business as Geo. E. Smith & Co., Twightwee, Ohio.
Filed June 9, 1927. Serial No. 250,267. PUBLISHED MAY 8, 1928. Class 46.

244,439. TWINE AND HOUSEHOLD CORD. GRIPSIT CORPORATION, Cambridge, Mass.
Filed May 12, 1927. Serial No. 248,899. PUBLISHED May 8, 1928. Class 7.

244,440. HEAT EXCHANGERS AND PARTS THEREOF. THE GRISCOM-RUSSELL COMPANY, New York, N. Y.
Filed December 29, 1927. Serial No. 259,443. PUBLISHED MAY 1, 1928. Class 23.

244,441. CUTICLE-REMOVING POWDER, CUTICLE ICE, LIQUID AND POWDER NAIL POLISH, NAIL BLEACH PASTE, NAIL BLEACH POWDER, HAND LOTION, HEALING POWDER, AND LIQUID USED FOR REMOVING POLISH FROM NAILS. LEO BLOOM, doing business as Mi-Tee-Fine Supply Co., Brooklyn, N. Y.
Filed December 27, 1927. Serial No. 259,349. PUBLISHED MAY 1, 1928. Class 6.

244,442. MAGAZINE PUBLISHED MONTHLY. FRANK N. DOUBLEDAY, Garden City, N. Y.
Filed December 24, 1927. Serial No. 259,326. PUBLISHED MAY 1, 1928. Class 38.

244,443. FRESH APPLES AND PEARS, EGGS, LIVE AND DRESSED POULTRY. WHITE CLOUD FARMS, INCORPORATED, Rock Tavern, N. Y.
Filed December 23, 1927. Serial No. 259,314. PUBLISHED MAY 1, 1928. Class 46.

244,444. PREPARATION FOR USE IN TREATING AND PREVENTING HEAD COLDS, CATARRH, HAY FEVER, AND ROSE FEVER. G. B. FETTER, McKeesport, Pa.
Filed December 22, 1927. Serial No. 259,240. PUBLISHED MAY 1, 1928. Class 6.

244,445. BEET PULLERS. WILLIAM YERMAK, Danbury, Conn.
Filed December 21, 1927. Serial No. 259,229. PUBLISHED MAY 1, 1928. Class 23.

244,446. CANNED FISH, SHELLFISH, BEEF, PORK, CHICKEN, AND VEGETABLES. NICHIRO GYOGYO KABUSHIKI KAISHA, Tokyo, Japan.
Filed December 21, 1927. Serial No. 259,211. PUBLISHED MAY 1, 1928. Class 46.

244,447. SHREDDED PAPER FOR PACKING AND DECORATIVE PURPOSES. GLITTERTRIM COMPANY, INC., Haledon, N. J.
Filed December 16, 1927. Serial No. 258,999. PUBLISHED MAY 1, 1928. Class 37.

244,448. WHEAT FLOUR. HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y.
Filed December 15, 1927. Serial No. 258,943. PUBLISHED MAY 1, 1928. Class 46.

244,449. POUNDCAKE AND FANCY CAKES. AMERICAN CAKE BAKING CO., Jersey City, N. J.
Filed December 12, 1927. Serial No. 258,789. PUBLISHED MAY 1, 1928. Class 46.

244,450. PROPELLERS AND PROPELLER PARTS AND AUTOMOBILE RADIATOR-CAP ORNAMENTS MADE FROM SUCH PARTS. JAMES H. FARISH, doing business as Georgia Novelty Mfg. Co., Columbus, Ga.
Filed December 10, 1927. Serial No. 258,735. PUBLISHED MAY 1, 1928. Class 19.

244,451. SELF-MEASURING LIQUID-DISPENSING PUMPS. THE DAYTON PUMP & MANUFACTURING COMPANY, Dayton, Ohio.
Filed December 8, 1927. Serial No. 258,622. PUBLISHED MAY 8, 1928. Class 26.

244,452. COTTON AND WOOLEN PIECE GOODS AND COMBINATIONS. PANAMA MFG. CO., INC., New York, N. Y.
Filed December 7, 1927. Serial No. 258,586. PUBLISHED APRIL 17, 1928. Class 42.

244,453. CANNED COOKED FOOD CONSISTING OF CEREALS AND FRUIT. CHARLES N. LOCKWOOD, Chicago, Ill.
Filed December 7, 1927. Serial No. 258,581. PUBLISHED MAY 1, 1928. Class 46.

244,454. CAMERAS AND PARTS THEREFOR. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, and Berlin, Germany.
Filed December 5, 1927. Serial No. 258,464. PUBLISHED MAY 1, 1928. Class 26.

244,455. LEMON MUD PACK, ROSE VANISHING CREAM, MENTHOL VANISHING CREAM, LEMON COLD CREAM, MENTHOL COLD CREAM, ENGLISH MUD PACK, HAIR CREAM, BRILLIANTINE, LEMON VANISHING CREAM, HAIR OIL, LEMON MASSAGE CREAM, GLYCERINE AND EGG SHAMPOO, MASSAGE CREAM, PRESSING OIL, BEAUTY POWDER, AND HAIRDRESSING CREAM. DE-LUXE SPECIALTY CO., Jersey City, N. J.
Filed December 5, 1927. Serial No. 258,462. PUBLISHED MAY 1, 1928. Class 6.

244,456. CANDY. WARD-OWSLEY CO. INC., Aberdeen, S. Dak.
Filed December 3, 1927. Serial No. 258,441. PUBLISHED MAY 1, 1928. Class 46.

244,457. CAST-METAL MANHOLE COVERS. WILLIAM S. FRAME, Schenectady, N. Y.
Filed November 29, 1927. Serial No. 258,173. PUBLISHED MAY 8, 1928. Class 13.

244,458. CERTAIN NAMED GLASS. W. P. FULLER & Co., San Francisco, Calif.
Filed November 28, 1927. Serial No. 257,976. PUBLISHED MAY 8, 1928. Class 33.

244,459. SUPPLIES FOR FILING SYSTEMS, OR EQUIPMENTS—NAMELY, GUIDE CARDS, FOLDERS, FILE WRAPPERS, PRINTED SHEETS, RULED SHEETS, BLANK SHEETS, INDEXES, TABS, NAME AND NUMBER LABELS, COMPLETE INDEXES, BOOK COVERS USED FOR LOOSE-LEAF SYSTEMS. GEORGE J. AIGNER, doing business as G. J. Aigner & Co., Chicago, Ill.
Filed November 21, 1927. Serial No. 257,847. PUBLISHED MAY 1, 1928. Class 37.

244,460. FRESH AND SALT WATER FISH IN THEIR NATURAL STATE AND COOKED AND SMOKED FISH, SHELLFISH IN THEIR NATURAL STATE, AND COOKED SHELLFISH. BEYER FISH CO., New York, N. Y.
Filed January 6, 1928. Serial No. 259,757. PUBLISHED MAY 1, 1928. Class 46.

244,461. WARM-AIR HEATING AND VENTILATING REGISTERS. TUTTLE & BAILEY MANUFACTURING COMPANY, New York and Brooklyn, N. Y.
Filed December 29, 1927. Serial No. 259,475. PUBLISHED MAY 1, 1928. Class 34.

244,504. PRINTING MACHINES. ADDRESSOGRAPH COMPANY, Chicago, Ill.
Filed April 27, 1927. Serial No. 266,179. PUBLISHED JUNE 26, 1928. Class 23.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

244,462. (CLASS 39. CLOTHING.) LANSON CO. INC., New York, N. Y. Filed Jan. 18, 1927. Serial No. 242,999.

Lanson

For Fur Garments—viz, Jacquettes, Coats, Collars, Cuffs, Scarfs, Muffs and Stoles, Cloaks; Ladies', Misses', and Children's Dresses, Hosiery, Leather Shoes and Slippers; Lingerie—viz, Ladies' Underwear in Silk, Cotton, and Rayon Made of Textile Fabrics; Misses' and Children's Ready-to-Wear Coats, Hats; Ladies', Misses', Children's, and Infants' Wearing Apparel—viz, Ladies' and Misses' Coats, Suits, Dresses, Skirts for Outer Wear, and Wraps, Waists for Outer Wear, Petticoats, Corsets, Brassières, Ladies' Scarfs, Leather and Fabric Gloves; and Knit Goods—viz, Sweaters and Knitted Sport Suits.
Claims use since Dec. 26, 1926.

244,463. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) LANSON CO. INC., New York, N. Y. Filed Jan. 18, 1927. Serial No. 243,000.

Lanson

For Necklaces Consisting of Beads and Imitation Stones.
Claims use since Dec. 26, 1926.

244,464. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MOTOR-KLEEN CORPORATION, Long Island City, N. Y. Filed Mar. 26, 1927. Serial No. 246,427.

FABRIC-KLEEN

For Fabric-Cleansing Liquid Composed of Benzoin and Carbon Tetrachloride.
Claims use since Mar. 1, 1927.

244,465. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) WURLITZER GRAND PIANO COMPANY, De Kalb, Ill. Filed Apr. 27, 1927. Serial No. 248,076.

THE SPINETTE

For Grand and Upright Pianos, Player Pianos, and Piano Players.
Claims use since Mar. 23, 1927.

244,466. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) WURLITZER GRAND PIANO COMPANY, De Kalb, Ill. Filed Apr. 27, 1927. Serial No. 248,078.

THE CLAVICHORDE

For Grand and Upright Pianos, Player Pianos, and Piano Players.
Claims use since Mar. 23, 1927.

244,467. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE SULLIVAN CO., Memphis, Tenn. Filed July 12, 1927. Serial No. 251,987.

SLUSH-MIX

For Oil-Well Drilling Compound.
Claims use since Apr. 19, 1927.

244,468. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TAMA TRADING COMPANY, INC., Los Angeles, Calif. Filed July 13, 1927. Serial No. 251,997.

Tama

For Edible Oils—Namely, Olive Oil; Canned Fruits, Canned Vegetables, Canned Fish, Dried Fruits, Canned Prepared Foods—Namely, Ravioli; Alimentary Pastes, Sausage, Cheese, Coffee, Dried or Dehydrated Vegetables; Sauces—Namely, Mushroom Sauce; Candy, Vinegar, Flavoring Syrups—Namely, Grenadine Syrup for Food Purposes, Table Syrup, Citrus Peel, Dried or Candied; Anchovy Paste, Condiments—Namely, Prepared Mustard; Jams, Jellies, Fruit Preserves, Olives, Tomato Sauce.
Claims use since Jan. 2, 1925.

244,469. (CLASS 38. PRINTS AND PUBLICATIONS.) THE BUZZA COMPANY, Minneapolis, Minn. Filed Aug. 3, 1927. Serial No. 252,941.

"VENETIAN VELVET"

For Gift Mottoes.
Claims use since May 2, 1927.

244,470. (CLASS 27. HOROLOGICAL INSTRUMENTS.) LOUIS ADELS, New York, N. Y. Filed Mar. 10, 1928. Serial No. 262,882.

ELBON

For Movements and Cases of Watches.
Claims use since Jan. 1, 1927.

244,471. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TRIBUNE COMPANY, Chicago, Ill. Filed Aug. 8, 1927. Serial No. 253,218.

SALLY JOY BROWN

For Nom de Plume for Newspaper Articles.
Claims use since 1910.

244,472. (CLASS 12. CONSTRUCTION MATERIALS.) M. N. CARTIER & SONS COMPANY, Providence, R. I. Filed Mar. 3, 1928. Serial No. 262,551.

NEWWALL
GYPSUM WALLBOARD

For Gypsum Wall Board.
Claims use since Jan. 1, 1920.

244,473. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HILF PRODUCTS COMPANY, Brooklyn, N. Y. Filed May 21, 1928. Serial No. 266,732.

UNGUENTUM CARBONIS COMP.
(HILF)

For An Ointment Indicated in the Treatment of Eczema and Pruritis.
Claims use since Mar. 15, 1927.

244,474. (CLASS 27. HOROLOGICAL INSTRUMENTS.) SAUL PARKER, doing business as Parker Watch Co., New York, N. Y. Filed May 26, 1928. Serial No. 267,076.

PARKER

For Watchcases, Time Recorders, Clocks, Watches, and Parts Thereof.
Claims use since Jan. 1, 1927.

244,475. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FINN CHEMICAL COMPANY, doing business as A. J. Gratton, Portland, Oreg. Filed May 28, 1928. Serial No. 267,117.

Gratton's

For Flavoring Extracts for Foods.
Claims use since October, 1925.

244,476. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IRVING SELKOW, doing business as Washington Barber Supply Co., New York, N. Y. Filed May 26, 1928. Serial No. 267,084.

ORIS-ROOT

For Hair Tonic.
Claims use since Jan. 15, 1923.

244,477. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOY-KELSEY CORPORATION, Chicago, Ill. Filed Apr. 23, 1928. Serial No. 265,274.

SPEEDY

For Paint Spray Guns.
Claims use since Jan. 24, 1927.

244,478. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) LIBERTY UMBRELLA COMPANY, New York, N. Y. Filed Apr. 9, 1928. Serial No. 264,591.

NEVER RUST

For Umbrellas and Parasols.
Claims use since January, 1926.

244,479. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BRACKEN & JONES AUTO AWNING CO., Augusta, Kans. Filed Aug. 3, 1927. Serial No. 252,937.

One Hand

For Automobile Awnings.
Claims use since Mar. 15, 1927.

244,480. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. F. HOUGHTON & CO., Philadelphia, Pa. Filed June 24, 1927. Serial No. 251,038.

NOPIT

For Pickling Compounds in Powdered Form for Removing Scale from Steel.
Claims use since June 8, 1927.

244,481. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN BOYLE & COMPANY INCORPORATED, New York, N. Y. Filed May 25, 1927. Serial No. 249,507.

LUCERNE

For Unbleached, Bleached, Dyed, and Colored Cotton Ducks and Drills, Awning Stripe and Ticking Made of Cotton, Linen, Cotton Damask, and Combination of Cotton and Linen in the Piece.
Claims use since Oct. 1, 1925.

244,482. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN BOYLE & COMPANY INCORPORATED, New York, N. Y. Filed May 25, 1927. Serial No. 249,506.

MADRID

For Unbleached, Bleached, Dyed, and Colored Cotton Ducks and Drills, Awning Stripe and Ticking Made of Cotton, Linen, Cotton Damask, and Combination of Cotton and Linen in the Piece.
Claims use since Oct. 1, 1925.

244,483. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN BOYLE & COMPANY INCORPORATED, New York, N. Y. Filed May 25, 1927. Serial No. 249,505.

SORRENTO

For Unbleached, Bleached, Dyed, and Colored Cotton Ducks and Drills, Awning Stripe and Ticking Made of Cotton, Linen, Cotton Damask, and Combination of Cotton and Linen in the Piece.
Claims use since Oct. 1, 1926.

244,484. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN BOYLE & COMPANY INCORPORATED, New York, N. Y. Filed May 25, 1927. Serial No. 249,503.

MARANO

For Unbleached, Bleached, Dyed, and Colored Cotton Ducks and Drills, Awning Stripe and Ticking Made of Cotton, Linen, Cotton Damask, and Combination of Cotton and Linen in the Piece.
Claims use since Oct. 1, 1926.

244,485. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN BOYLE & COMPANY INCORPORATED, New York, N. Y. Filed May 25, 1927. Serial No. 249,502.

EVER-TAN

For Unbleached, Bleached, Dyed, and Colored Cotton Ducks and Drills, Awning Stripe and Ticking Made of Cotton, Linen, Cotton Damask, and Combination of Cotton and Linen in the Piece.
Claims use since Oct. 1, 1925.

244,486. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN BOYLE & COMPANY INCORPORATED, NEW YORK, N. Y. Filed May 25, 1927. Serial No. 249,501.

EVER-GREEN

For Unbleached, Bleached, Dyed, and Colored Cotton Ducks and Drills, Awning Stripe and Ticking Made of Cotton, Linen, Cotton Damask, and Combination of Cotton and Linen in the Piece.
Claims use since Oct. 1, 1925.

244,487. (CLASS 12. CONSTRUCTION MATERIALS.) MASONITE CORPORATION, Laurel, Miss. Filed May 4, 1928. Serial No. 265,872.

PRESDWOOD

For Fiber Board, Thermal Insulating Board, Composite Board, Construction Board, Synthetic Lumber or Artificial Lumber and Hard Board.
Claims use since Oct. 6, 1926.

244,488. (CLASS 39. CLOTHING.) CRAWFORD'S CLOTHES INC., New York, N. Y. Filed Apr. 20, 1928. Serial No. 265,142.

CRAWFORD'S
$22 CLOTHES 50

For Men's and Boys' Suits and Overcoats.
Claims use since Jan. 28, 1927.

372 O. G.—38

244,489. (CLASS 39. CLOTHING.) LEMA & CO., Boston, Mass. Filed Apr. 7, 1928. Serial No. 264,524.

Lema Special

For Shoes of Leather, Rubber, and Fabric and of Combinations of Two or More of Those Materials.
Claims use since January, 1913.

244,490. (CLASS 39. CLOTHING.) LEMA & CO., Boston, Mass. Filed Apr. 7, 1928. Serial No. 264,523.

Lema

For Shoes of Leather, Rubber, and Fabric and of Combinations of Two or More of Those Materials.
Claims use since January, 1913.

244,491. (CLASS 39. CLOTHING.) PH. WEINBERG & SONS, New York, N. Y. Filed Apr. 3, 1928. Serial No. 264,267.

IRISH DUFFLE FLEECE

For Men's and Young Men's Clothing—Namely, Suits, Coats, Topcoats, and Overcoats.
Claims use since December, 1923.

244,492. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MERCKENS CHOCOLATE CO., INC., Buffalo, N. Y. Filed Mar. 24, 1928. Serial No. 263,715.

MERCKENS

For Chocolate, Cocoa, Chocolate Coating, Candy, Chocolate Rice Consisting of Small Particles of Chocolate for Ornamenting Cakes and Other Bakery Products, and a Powdered Preparation of Malt, Whole Milk, Sugar and Cocoa Used for Making a Food Beverage.
Claims use since Apr. 1, 1927.

244,493. (CLASS 39. CLOTHING.) GEORGE AFTERGOOD, doing business as California Knitting Mills, Los Angeles, Calif. Filed Feb. 25, 1928. Serial No. 262,196.

CALIFORNIAN

For Men's, Boys', Women's, Misses', and Children's Sweaters, Bathing Suits, Coats, Suits, and Dresses.
Claims use since Jan. 1, 1926.

244,494. (CLASS 39. CLOTHING.) GOODMAN & SUSS, INC., Rochester, N. Y. Filed Jan. 14, 1928. Serial No. 260,112.

Buckmingster

For Men's and Young Men's Suits.
Claims use since April, 1927.

244,495. (CLASS 39. CLOTHING.) CUSHMAN-HOLLIS COMPANY, Auburn, Me. Filed Nov. 9, 1927. Serial No. 257,281.

AUBURN
ARCH SPECIALS

For Shoes of Leather and Fabrics or Combinations Thereof.
Claims use since about Mar. 1, 1927.

244,496. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CHARLES B. WOODWORTH, Binghamton, N. Y. Filed Oct. 28, 1927. Serial No. 256,758.

EasyOn

For Tire Chains.
Claims use since 1915.

244,497. (CLASS 39. CLOTHING.) BEN FLIGEL, doing business as Ben Fligel Co., New York, N. Y. Filed Aug. 2, 1927. Serial No. 252,898.

LEATH-R-GLOSS

For Raincoats and Slickers for Men, Women, and Children.
Claims use since Mar. 1, 1927.

244,498. (CLASS 39. CLOTHING.) HEYMAN & BIASINGER CO., New York, N. Y. Filed July 19, 1927. Serial No. 252,282.

Tri-Ply

For Hosiery.
Claims use since Apr. 26, 1927.

244,499. (CLASS 39. CLOTHING.) S. LIEBOVITZ & SONS, INC., New York, N. Y. Filed June 14, 1927. Serial No. 250,515.

"Kno-Bulge"

For Dress and Negligee Shirts.
Claims use since May 13, 1927.

244,500. (CLASS 39. CLOTHING.) THE COSHOCTON GLOVE COMPANY, Coshocton, Ohio. Filed May 9, 1927. Serial No. 248,076.

Buc-Tand

For Leather and Canvas Gloves.
Claims use since Mar. 29, 1927.

244,501. (CLASS 39. CLOTHING.) NUNN, BUSH & WELDON SHOE CO., Milwaukee, Wis. Filed May 2, 1927. Serial No. 248,318.

ARCH FASHIONED

For Men's Leather Shoes.
Claims use since Apr. 16, 1927.

244,502. (CLASS 39. CLOTHING.) J. F. BEALL DRY GOODS CO., INC., Dothan, Ala. Filed Apr. 2, 1927. Serial No. 246,810.

BEL-GRADE

For Negligee and Work Shirts, Hosiery, Sweaters, Underwear Made of Knitted, Netted, and Textile Fabrics for Men, Women, and Children, Overalls, Work Pants, Bathing Suits, Dress Shirts, Dress Pants, Neckties, Men's and Boys' Caps, Work Gloves and Dress Gloves Made of All Leather, All Canvas, and Cloth with Leather Palms.
Claims use since March, 1925.

244,503. (CLASS 39. CLOTHING.) N. Y. MFG. CORP., also doing business as Ambassador Cap Company, New York, N. Y. Filed Feb. 8, 1927. Serial No. 244,024. For Girls' Hats.

Virginia Lee

Claims use since February, 1918.

LABELS

REGISTERED JULY 17, 1928.

34,292.—*Title:* H. For Fresh Pears. G. H. ANDERSON ESTATE (doing business as the Howard Fruit Company), San Jose, Calif., by the Capitol National Bank of Sacramento, trustee. Published August 2, 1927.

34,293.—*Title:* VI-TEX. For Salve Used as a Remedy for Skin Affections. FRANK ANNIBALE, doing business as Vi-Tex Co. Chicago, Ill. Published March 12, 1928.

34,294.—*Title:* BOSCH WINDSHIELD WIPER. For Windshield Wiper. ROBERT BOSCH AKTIENGESELLSCHAFT, Stuttgart, Germany. Published February 15, 1927.

34,295.—*Title:* WITCH HAIR WASH-ALL-IN-ONE. For Toilet Preparation. JULIUS M. BROWN, Winthrop, Mass. Published November 1, 1927.

34,296.—*Title:* ALMOND ROCA. For a Confection. BROWN & HALEY, Tacoma, Wash. Published March 20, 1928.

34,297.—*Title:* CALIFORNIA ALMONDS I X L. For Sheller Run Almonds. CALIFORNIA ALMOND GROWERS EXCHANGE, San Francisco, Calif. Published January 10, 1928.

34,298.—*Title:* VACUUM PACKED TOASTED ALMONDS. For Almonds. CALIFORNIA ALMOND GROWERS EXCHANGE, San Francisco, Calif. Published February 9, 1928.

34,299.—*Title:* VACUUM PACKED SALTED ALMONDS. For ALMONDS. CALIFORNIA ALMOND GROWERS EXCHANGE, San Francisco, Calif. Published February 9, 1928.

34,300.—*Title:* PLANTOSE HEALTH FOOD CANDIES. For Candy. CASTLE COMFORT CANDY CO., Sanford, Me. Published May 16, 1928.

34,301.—*Title:* RADIANT GLOW LOTION. For a Cosmetic. ALMA COLLIER CHASE, doing business as Alma-Vita, Los Angeles, Calif. Published May 1, 1926.

34,302.—*Title:* EVELYN CARLYE'S PROVED 2020 PREPARED SCALP MASSAGE OIL. For Scalp-Massage Oil. EVELYN CARLYLE DAMERON, Jackson, Miss. Published January 25, 1928.

34,303.—*Title:* DAND-OFF. For Dandruff Exterminator. THE DAND-OFF CO., Portland, Oreg. Published February 23, 1928.

34,304.—*Title:* FEESER'S GOLDEN SPECIALTIES. For Macaroni, Spaghetti, Noodles, and Similar Alimentary Food Products. FEESER MACARONI COMPANY, Harrisburg, Pa. Published June 1, 1928.

34,305.—*Title:* SAN-FILIPPO. For Macaroni. FEESER MACARONI COMPANY, Harrisburg, Pa. Published June 1, 1928.

34,306.—*Title:* FRISCH PROCESS (CASE 536). For Bread. EMILE FRISCH, Chicago, Ill. Published May 2, 1928.

34,307.—*Title:* FRISCH PROCESS (CASE 539). For Bread. EMILE FRISCH, Chicago, Ill. Published April 11, 1928.

34,308.—*Title:* FRISCH PROCESS (CASE 540). For Bread. EMILE FRISCH, Chicago, Ill. Published December 29, 1927.

34,309.—*Title:* FRISCH PROCESS (CASE 542). For Bread. EMILE FRISCH, Chicago, Ill. Published April 30, 1928.

34,310.—*Title:* FRISCH PROCESS (CASE 543). For Bread. EMILE FRISCH, Chicago, Ill. Published May 22, 1928.

34,311.—*Title:* FRISCH PROCESS (CASE 545). For Bread. EMILE FRISCH, Chicago, Ill. Published January 21, 1928.

34,312.—*Title:* FRISCH PROCESS (CASE 546). For Bread. EMILE FRISCH, Chicago, Ill. Published February 25, 1928.

34,313.—*Title:* MYRANET. For Hair Nets. SAMUEL D. FROHLICH, New York, N. Y. Published April 23, 1928.

34,314.—*Title:* LINDY WRITING PAPER NO. 87. For Writing Paper. LEVI HAYNE, Philadelphia, Pa. Published May 4, 1928.

34,315.—*Title:* LINDY WRITING PAPER NO 86. For Writing Paper. LEVI HAYNE, Philadelphia, Pa. Published May 4, 1928.

34,316.—*Title:* E. F. KEMP, SALTED PISTACHIOS. For Salted Pistachios. EDWARD F. KEMP, Somerville and Boston, Mass. Published June 11, 1928.

34,317.—*Title:* E. F. KEMP, SALTED FILBERTS. For Salted Filberts. EDWARD F. KEMP, Somerville and Boston, Mass. Published June 11, 1928.

34,318.—*Title:* KIRKPATRICK PUL-BRO-TU REMEDIES. For a medicinal Preparation. DR. GEO. KIRKPATRICK REMEDIES COMPANY, Portland, Oreg. Published July 1, 1927.

34,319.—*Title:* KIRKPATRICK RHEUGOIT REMEDIES. For a Medicinal Preparation. DR. GEO. KIRKPATRICK REMEDIES COMPANY, Portland, Oreg. Published July 1, 1927.

34,320.—*Title:* KLEVER KLEANER. For Detergent Preparation in Paste Form. KLEVER KLEANERS, Columbus, Ohio. Published April 17, 1928.

34,321.—*Title:* ORIGINAL LEMON GRIT SOAP. For Lemon Grit Soap. FRANK J. LIGHTHOUSE, Rochester, N. Y. Published March 9, 1928.

34,322.—*Title:* MAGIC DISCOVERY. For Medicinal Preparation for the Treatment of the Scalp and Skin. MAGIC DISCOVERY CO., Cicero, Ill. Published April 18, 1928.

34,323.—*Title:* OLD PILGRIM. For Malt Syrup. CHARLES G. MCCAFFREY, doing business as Old Pilgrim Malt Extract Company, Pittsburgh, Pa. Published December 3, 1927.

34,324.—*Title:* LA FAMILLE STRUDEL. For Confection. HARRIS MILLMAN, doing business as La Famille Strudel Company, Lakewod, Ohio. Published April 14, 1928.

34,325.—*Title:* RED MULE. For Fresh Oranges. PEPPERS FRUIT COMPANY, Los Angeles, Calif. Published February 9, 1928.

34,326.—*Title:* BEST GRADE SHOGUN FIRECRACKERS. For Firecrackers. PYRO IMPORTING COMPANY, Seattle, Wash. Published January 15, 1928.

34,327.—*Title:* TRUMP NO. 1. For Trump Cleaner No. 1. REX RESEARCH CORPORATION, Toledo, Ohio. Published May 20, 1928.

34,328.—*Title:* Trump No. 2. For Trump Cleaner No. 2. REX RESEARCH CORPORATION, Toledo, Ohio. Published May 20, 1928.

34,329.—*Title:* TRUMP NO. 3. For Trump Cleaner No. 3. REX RESEARCH CORPORATION, Toledo, Ohio. Published May 20, 1928.

34,330.—*Title:* TRUMP NO. 4. For Trump Cleaner No. 4. REX RESEARCH CORPORATION, Toledo, Ohio. Published May 20, 1928.

34,331.—*Title:* TRUMP NO. 5. For Trump Cleaner No. 5. REX RESEARCH CORPORATION, Toledo, Ohio. Published May 20, 1928.

34,332.—*Title:* S-O-D-A-N-U-T. For Candy. RILEY'S CANDY SHOP, Los Angeles, Calif. Published January 1, 1928.

34,333.—*Title:* TED'S LILLY. For Chili Powders. THEODORE ROUT, doing business as Ted's Chili & Food Products Co., Chicago, Ill. Published March 31, 1927.

34,334.—*Title:* GOLDEN BIRD. For Fresh Grapes. FULGENZIO C. RUSCONI, Merced, Calif. Published April 2, 1928.

34,335.—*Title:* MELOTONE. For Melotone which is a compound of corn sugar, gelatine, dextrose, ash, sodium chloride and protein. LOUIS SCHLOSSER, doing business as L. Schlosser & Company, Chicago, Ill. Published May 7, 1928.

34,336.—*Title:* STYLE-PEP MINT. For Mints. SHIREK & HIRSCH, New York, N. Y. Published April 15, 1928.

34,337.—*Title:* AIR MAIL RACE. For an Aeroplane Playing Game. STANDARD INDUSTRIES, New York, N. Y. Published October 31, 1927.

34,338.—*Title:* AMERICAN BEAUTY. For Mattresses. L. W. STOCKWELL COMPANY, Los Angeles, Calif. Published May 28, 1928.

34,339.—*Title:* MODEL A MOTOR OIL. For Lubricating Oil. THE TRACTOR SALES COMPANY, Cleveland, Ohio. Published May 29, 1928.

34,340.—*Title:* WEAKLEY'S PILE REMEDY. For Medicine for Piles. WILLARD WEAKLEY, Hoquiam, Wash. Published March 12, 1928.

34,341.—*Title:* WESTERN BRAND CALIFORNIA PURE CONCENTRATED GRAPE SYRUP. For Grape Syrup. WESTERN GRAPE PRODUCTS COMPANY, INC., Los Angeles, Calif. Published March 8, 1928.

34,342.—*Title:* ABSORBINE JR. For an Antiseptic Liniment. W. F. YOUNG, INC., Springfield, Mass. Published June 8, 1928.

34,343.—*Title:* EVERA PERMANENT WAVING MACHINE. For Permanent-Waving Machines. YVETTE CO., New York, N. Y. Published May 1, 1928.

PRINTS

REGISTERED JULY 17, 1928.

11,056.—*Title:* VENUS PENCILS (C 76). For Pencils. AMERICAN LEAD PENCIL COMPANY, Hoboken, N. J. Published December 2, 1927.

11,057.—*Title:* THE AMBASSADOR. For Toy Electrical Trains. AMERICAN FLYER MANUFACTURING COMPANY, Chicago, Ill. Published April 6, 1928.

11,058.—*Title:* THE TRAIL BLAZER. For Toy Electrical Trains. AMERICAN FLYER MANUFACTURING COMPANY, Chicago, Ill. Published April 6, 1928.

11,059.—*Title:* THE MERCHANT. For Toy Electrical Trains. AMERICAN FLYER MANUFACTURING COMPANY, Chicago, Ill. Published April 6, 1928.

11,060.—*Title:* THE EXPLORER. For Toy Electrical Trains. AMERICAN FLYER MANUFACTURING COMPANY, Chicago, Ill. Published April 6, 1928.

11,061.—*Title:* LITTLE AMERICAN. For Toy Electrical Trains. AMERICAN FLYER MANUFACTURING COMPANY, Chicago, Ill. Published April 6, 1928.

11,062.—*Title:* THE STATESMAN. For Toy Electrical Trains. AMERICAN FLYER MANUFACTURING COMPANY, Chicago, Ill. Published April 6, 1928.

11,063.—*Title:* THE POCAHONTAS. For Toy Electrical Trains. AMERICAN FLYER MANUFACTURING COMPANY, Chicago, Ill. Published April 6, 1928.

11,064.—*Title:* THE MOUNTAINEER. For Toy Electrical Trains. AMERICAN FLYER MANUFACTURING COMPANY, Chicago, Ill. Published April 6, 1928.

11,065.—*Title:* THE PRESIDENT'S SPECIAL. For Toy Electrical Trains. AMERICAN FLYER MANUFACTURING COMPANY, Chicago, Ill. Published April 6, 1928.

11,066.—*Title:* THE POTOMAC. For Toy Electrical Trains. AMERICAN FLYER MANUFACTURING COMPANY, Chicago, Ill. Published April 6, 1928.

11,067.—*Title:* THE NEW JEFFERSONIAN. For Toy Electrical Trains. AMERICAN FLYER MANUFACTURING COMPANY, Chicago, Ill. Published April 6, 1928.

11,068.—*Title:* THE BLUEBIRD. For Toy Electrical Trains. AMERICAN FLYER MANUFACTURING COMPANY, Chicago, Ill. Published April 6, 1928.

11,069.—*Title:* THE EAGLE. For Toy Electrical Trains. AMERICAN FLYER MANUFACTURING C MPANY, Chicago, Ill. Published April 6, 1928.

11,070.—*Title:* THE HAMILTONIAN. For Toy Electrical Trains. AMERICAN FLYER MANUFACTURING COMPANY, Chicago, Ill. Published April 6, 1928.

11,071.—*Title:* INTRODUCING THE JOWLS. For Venetian Toilet Preparations. ELIZABETH ARDEN, INC., doing business as Elizabeth Arden, New York, N. Y. Published April 21, 1928.

11,072.—*Title:* THE RED WOVEN LABEL. For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published May 28, 1928.

11,073.—*Title:* ENJOY NATURE'S COOLING PROCESSES. For Athletic Underwear. THE B. V. D. COMPNAY, INC., New York, N. Y. Published June 11, 1928.

11,074.—*Title:* MORE—FOR DESSERT—MY-T-FINE. For Dessert Preparations. THE D & C CO. INC., Wilmington, Del., and Brooklyn, N. Y. Published May 1, 1928.

11,075.—*Title:* GOOD — WINGFOOT—YEAR TRUCK TIRES. For Tires Composed Wholly or in Part of Rubber. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Published April 5, 1928.

11,076.—*Title:* GOOD — WINGFOOT—YEAR TIRES. For Tires Composed Wholly or in Part of Rubber. THE GOODYEAR TIRE & RUBBER COMPANY, INC., Akron, Ohio. Published June 4, 1928.

11,077.—*Title:* NOW HEARKEN—YE WHO SHOES DO WEAR BEHOLD YON AUTO WHEELS YOU TOO CAN WALK AS IF ON AIR ON GOOD—WINGFOOT—YEAR HEELS. For Heels Composed Wholly or in Part of Rubber. THE GOODYEAR TIRE & RUBBER COMPANY INC., Akron, Ohio. Published June 1, 1928.

11,078.—*Title:* 'MARCH ON!' THE CAPTAIN SHOUTED, 'MARCH ON!' THE BUGLE PEALS, 'MARCH ON!' THE WISE ONES ECHO, ON GOOD—WINGFOOT—YEAR WINGFOOT HEELS. For Heels Composed Wholly or in Part of Rubber. THE GOODYEAR TIRE & RUBBER COMPANY INC., Akron, Ohio. Published June 1, 1928.

11,079.—*Title:* THE ART OF CREATIVE BEAUTY. For Cleansing Cream, Tissue Cream, Cold Cream, Vanishing Cream, Astringent Cream, Weather Cream, and Hand Cream. BARBARA GOULD, LTD., New York, N. Y. Published June 6, 1928.

11,080.—*Title:* YOU FRY DOUGHNUTS A FEW AT A TIME . . . FOR THE SAME REASON HILLS BROS ROAST THEIR COFFEE A FEW POUNDS AT A TIME. For Coffee. HILLS BROS., San Francisco, Calif. Published May 18, 1928.

11,081.—*Title:* THE INGREDIENTS OF GOOD PIE CRUST ARE COMBINED A LITTLE AT A TIME . . . A PRINCIPLE THAT HILLS BROS FOLLOW IN ROASTING COFFEE. For Coffee. HILLS BROS., San Francisco, Calif. Published March 16, 1928.

11,082.—*Title:* YOUR SEARCH FOR FINE COFFEE IS AT AN END WHEN YOU SEE HILLS BROS' ARAB. For Coffee. HILLS BROS., San Francisco, Calif. Published February 17, 1928.

11,083.—*Title:* HILLS BROS' PRINCIPLE OF ROASTING COFFEE AGREES WITH THE IMPORTANT RULE IN MAKING BISCUITS. For Coffee. HILLS BROS., San Francisco, Calif. Published February 10, 1928.

11,084.—*Title:* ADDING MILK A LITTLE AT A TIME TO THE FLOUR MAKES DELICIOUS GRAVY. For Coffee. HILLS BROS., San Francisco, Calif. Published February 3, 1928.

11,085.—*Title:* PERFECT MUFFIN BATTER IS MADE BY MIXING THE INGREDIENTS A LITTLE AT A TIME . . . HILLS BROS PRACTICE THE SAME PRINCIPLE IN ROASTING COFFEE. For Coffee. HILLS BROS., San Francisco, Calif. Published January 27, 1928.

11,086.—*Title:* YOU PROVE THE VALUE OF HILLS BROS' RULE IN ROASTING COFFEE WHEN YOU ADD CEREAL TO BOILING WATER A LITTLE AT A TIME. For Coffee. HILLS BROS., San Francisco, Calif. Published May 9, 1928.

11,087.—*Title:* WATCH THE CHEF BROIL CHOPS—A LITTLE AT A TIME ON EACH SIDE—HILLS BROS FOLLOW THE SAME PRINCIPLE IN ROASTING COFFEE. For Coffee. HILLS BROS., San Franscisco, Calif. Published March 7, 1928.

11,088.—*Title:* WHY DOES THE COFFEE-LOVING WEST LOOK FOR HILLS BROS' ARAB? For Coffee. HILLS BROS., San Francisco, Calif. Published February 1, 1928.

11,089.—*Title:* HILLS BROS COFFEE IS THE MOST ASKED-FOR COFFEE IN THE WEST. For Coffee. HILLS BROS., San Francisco, Calif. Published January 25, 1928.

11,090.—*Title:* HILLS BROS GIVE THE WEST THE CONSTANT LUXURY OF A COFFEE WITH A MATCHLESS FLAVOR. For Coffee. HILLS BROS., San Francisco, Calif. Published January 18, 1928.

11,091.—*Title:* YOU POP CORN A LITTLE AT A TIME AND HILLS BROS ROAST THEIR COFFEE THE SAME WAY. For Coffee. HILLS BROS., San Francisco, Calif. Published March 14, 1928.

11,092.—*Title:* GRIDDLE CAKES ARE BEST WHEN THE FLOUR AND MILK ARE MIXED A LITTLE AT A TIME . . . HILLS BROS FOLLOW THE SAME PRINCIPLE IN ROASTING COFFEE. For Coffee. HILLS BROS., San Francisco, Calif. Published April 29, 1928.

11,093.—*Title:* THE SECRET OF FINE CAKES IS MIXING THE INGREDIENTS A LITTLE AT A TIME . . . HILLS BROS OBSERVE THE SAME PRINCIPLE IN ROASTING COFFEE. For Coffee. HILLS BROS., San Francisco, Calif. Published February 26, 1928.

11,094.—*Title:* TO COFFEE LOVERS THE GREATEST DISCOVERY IN THE WEST IS HILLS BROS' PROCESS OF CONTROLLED ROASTING. For Coffee. HILLS BROS., San Francisco, Calif. Published January 12, 1928.

11,095.—*Title:* YOU MAKE FINE MAYONNAISE BY ADDING THE OIL A LITTLE AT A TIME . . . HILLS BROS GIVE YOU A MATCHLESS COFFEE BY FOLLOWING THE SAME PRINCIPLE IN ROASTING. For Coffee. HILLS BROS., San Francisco, Calif. Published March 11, 1928.

11,096.—*Title:* A GOOD COOK PUTS UP FRUIT A LITTLE AT A TIME . . . HILLS BROS FOLLOW THE SAME PRINCIPLE IN ROASTING COFFEE. For Coffee. HILLS BROS., San Francisco, Calif. Published May 2, 1928.

11,097.—*Title:* THE MOST DELICIOUS FRENCH FRIED POTATOES ARE COOKED A FEW AT A TIME . . . THE FLAVOR OF HILLS BROS COFFEE IS THE RESULT OF THE SAME PRINCIPLE. For Coffee. HILLS BROS., San Francisco, Calif. Published April 25, 1928.

11,098.—*Title:* RIGHTLY IS THE WEST PROUD OF ITS GLORIOUS SCENERY AND ITS FAMOUS COFFEE—HILLS BROS. For Coffee. HILLS BROS., San Francisco, Calif. Published March 21, 1928.

11,099.—*Title:* WHEN THE WEST THINKS OF COFFEE IT SAYS 'HILLS BROS'—THE COFFEE ROASTED A FEW POUNDS AT A TIME. For Coffee. HILLS BROS., San Francisco, Calif. Published April 6, 1928.

11,100.—*Title:* AS SUNSHINE RIPENS FRUIT TO PERFECTION, CONTROLLED ROASTING GIVES HILLS BROS COFFEE THE FLAVOR OF ALL FLAVORS. For Coffee. HILLS BROS., San Francisco, Calif. Published April 20, 1928.

11,101.—*Title:* YOUR RULE OF ADDING RICE TO THE WATER A LITTLE AT A TIME IS THE VITAL PRINCIPLE IN HILLS BROS' PROCESS OF ROASTING COFFEE. For Coffee. HILLS BROS., San Francisco, Calif. Published April 13, 1928.

11,102.—*Title:* THE SECRET OF FINE CANDY-MAKING AND THE ROASTING OF HILLS BROS COFFEE DEPEND UPON THE SAME RULE. For Coffee. HILLS BROS. San Francisco, Calif. Published March 30, 1928.

11,103.—*Title:* THE FLAVOR OF HILLS BROS COFFEE IS AS DISTINCTIVE AS THE GRANDEUR OF THE WEST. For Coffee. HILLS BROS., San Francisco, Calif. Published January 22, 1928.

11,104.—*Title:* HILLS BROS EXTENDED THE BOUNDARIES OF COFFEE FLAVOR WHEN THEY DISCOVERED CONTROLLED ROASTING. For Coffee. HILLS BROS., San Francisco, Calif. Published January 13, 1928.

11,105.—*Title:* HILLS BROS TURNED THE SUCCESSFUL RULE FOR WAFFLES—A LITTLE AT A TIME—INTO AN EXCLUSIVE PROCESS OF ROASTING COFFEE. For Coffee. HILLS BROS., San Francisco, Calif. Published March 15, 1928.

11,106.—*Title:* THE NIGHTS ARE SAFER NOW. For Dirigible Headlights. THE INTERNATIONAL CONTROLLED LAMP CO., Los Angeles, Calif. Published December 3, 1927.

11,107.—*Title:* FINE ENGRAVED CHRISTMAS CARDS. For Christmas Cards in a Box. HARRY W. KING, doing business as King Card Company, Philadelphia, Pa. Published March 18, 1928.

11,108.—*Title:* THE FUTURE . . . AND THE PASTEL. For Junior Misses' Apparel. JORDAN MARSH COMPANY, Boston, Mass. Published May 25, 1928.

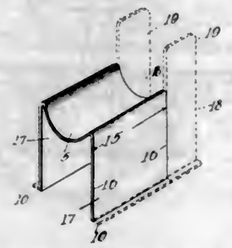
11,109.—*Title:* WHY A HOT HEN LAYS MORE EGGS. For Coal. OLD BEN COAL CORPORATION, Chicago, Ill. Published June 11, 1928.

11,110.—*Title:* ECHOES OF FRAGRANCE. For Perfumes. ROGER & GALLET, New York, N. Y. Published February 3, 1928.

REISSUES

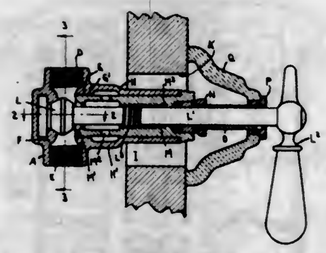
JULY 17, 1928.

17,033. METHOD OF MAKING BOILERS. ROBERT W. BIRCHFIELD, Joliet, Ill., assignor to Heggie Simplex Boiler Company, Joliet, Ill., a Corporation of Illinois. Filed Sept. 19, 1927. Serial No. 220,616. Original No. 1,565,542, dated Dec. 15, 1925, Serial No. 655,638, filed Aug. 4, 1923. 8 Claims. (Cl. 29—157.4.)



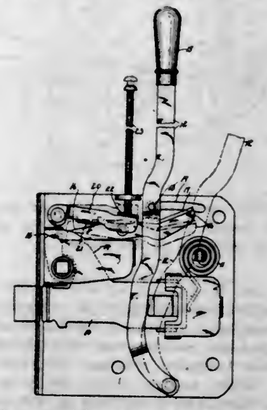
7. The herein described method of forming the inner shell of a boiler which has an auxiliary combustion space rising above a main combustion space and which shell includes a main crown sheet, depending main side sheets and side sheets for an auxiliary combustion space rising above the main crown sheet, which method consists in forming a main section of the shell with a suitable crown sheet and depending side sheets, and completing the rear part of the shell by attaching auxiliary plates in the planes of the main side sheets and which auxiliary plates project above the main crown sheet to form the side sheets of the auxiliary combustion space.

17,034. FOUR-WAY DIVERTER VALVE. LEON BLOCH, Cleveland, Ohio, assignor to The Republic Brass Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 19, 1926. Serial No. 142,740. Original No. 1,579,503, dated Apr. 6, 1926, Serial No. 33,137, filed May 27, 1925. 3 Claims. (Cl. 251—22.)



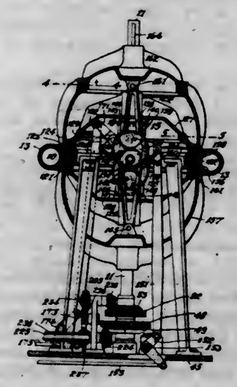
1. In a valve, the combination of a casing having two inlet and two outlet openings disposed in the same plane and said outlet openings being disposed on opposite sides of said casing, two spaced interior partitions in said casing defining a diverter chamber separated from said outlet openings but in communication with said inlet openings, said partition having aligned ports therein, and said casing having angular passages extending from said aligned ports to said outlet openings respectively, a hollow sleeve disposed in said casing and having a lateral port establishing communication between one of said angular passages and said diverter chamber, and a valve disposed between said aligned ports and movable into a position closing either thereof to divert the flow of liquid through the other of said ports.

17,035. LATCH FOR VEHICLE DOORS. RICHARD V. KAIMER, New Haven, Conn., assignor to The English & Mersick Co., New Haven, Conn., a Corporation. Filed Nov. 11, 1927. Serial No. 232,921. Original No. 1,562,096, dated Nov. 17, 1925, Serial No. 49,887, filed Aug. 13, 1925. 10 Claims. (Cl. 292—173.)



1. A latch, comprising a bolt, a lever for retiring said bolt, a roll-back adapted to retire said bolt, a locking-lever pivoted above the bolt and extending into the path of the roll-back, a push-rod lever pivoted at one end, above and forward of the locking-lever, a push-rod mounted in line with and bearing upon the push-rod lever and adapted, when forced down, to depress the forward end of the locking-lever, and means for depressing the rear end of the locking lever to lift it out of the path of the roll-back and to raise the push-rod.

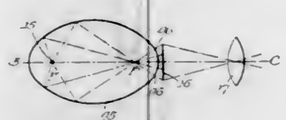
17,036. METHOD AND MACHINE FOR MAKING CORD TIRES. KNUT O. B. TEXTORIUS, New York, N. Y., assignor, by direct and mesne assignments, to Tex. Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 29, 1922. Serial No. 557,459. Original No. 1,359,632, dated Nov. 23, 1920, Serial No. 321,533, filed Sept. 4, 1919. 65 Claims. (Cl. 154—11.)



1. In a cord tire building machine, means for assembling individual cords of predetermined length in

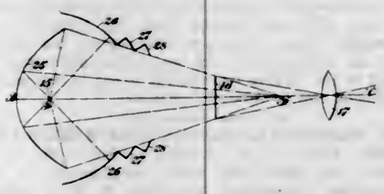
parallel relation to each other, and automatic means for transferring the assembled cords and applying the same upon a tire forming core in a continuous circumferential layer.

17,037. PROJECTING APPARATUS. EDWIN C. BALLMAN, St. Louis, and EDWARD P. EVERS, Overland, Mo., assignors, by mesne assignments, to Acme Motion Picture Projector Company, Chicago, Ill., a Corporation of Illinois. Filed July 16, 1927. Serial No. 206,364. Original No. 1,275,120, dated Aug. 6, 1918, Serial No. 855,420, filed Aug. 6, 1914. 6 Claims. (Cl. 88—24.)



1. A projecting apparatus comprising an electric light bulb having a portion thereof formed as an ellipsoid reflector with the filament at one focus.

17,038. PROJECTING APPARATUS. EDWIN C. BALLMAN, St. Louis, and EDWARD P. EVERS, Overland, Mo., assignors, by mesne assignments, to Acme Motion Picture Projector Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 4, 1920. Serial No. 401,276. Original No. 1,275,120, dated Aug. 6, 1918, Serial No. 855,420, filed Aug. 6, 1914. 6 Claims. (Cl. 88—24.)

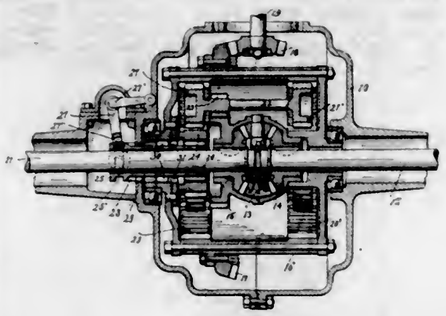


1. A projecting apparatus comprising an ellipsoidal reflector, a source of light positioned at the focus of said reflector so as to cause the latter to concentrate the major part of the light from said source on an object, and means for projecting an image of the object on a screen.

30. A projecting apparatus comprising a source of light, an object, a reflector arranged to receive part of the rays emitted by said source, and means for reflecting another part of the rays emitted by said source upon said reflector, said reflector being constructed and arranged to concentrate on said object the rays received by it, and means for projecting an image of said object on a screen.

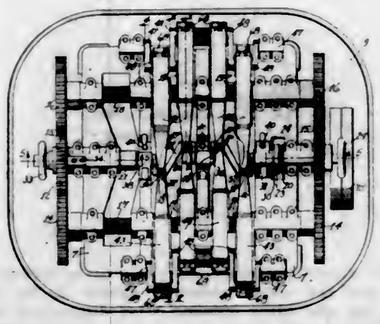
17,039. PLANETARY-GEAR MECHANISM. HARRY L. BURKHARDT, New York, N. Y., assignor to Ruckstell Sales & Manufacturing Company, Berkeley, Calif., a Corporation of California. Filed Aug. 19, 1926. Serial No. 130,328. Original No. 1,586,944, dated June 1, 1926, Serial No. 563,064, filed May 23, 1922. 3 Claims. (Cl. 74—99.)

1. In combination with a rear axle having a differential mechanism, a gear on the casing of the differential mechanism, a rotatable housing enclosing said differential mechanism, a ring gear for driving said housing, and planetary mechanism interposed between the ring gear and the gear on the differential casing, said planetary mechanism comprising an internal gear driven by the ring gear, a set of planetary pinions meshing with the



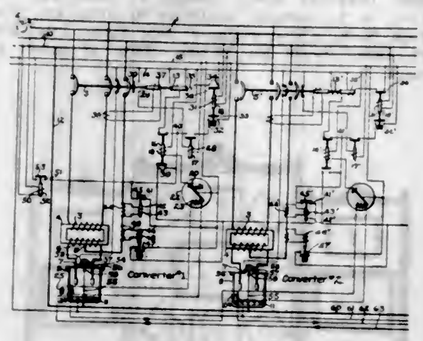
internal gear, an axle for each of the planetary pinions, means for maintaining said axles in parallel relation, a pinion on each axle meshing with said gear on the differential casing, and a sun gear meshing with said planetary pinions, and means for controlling the operation of the sun gear to vary the action of the planetary pinions.

17,040. CRANK-PIN LATHE. LOUIS J. KIRCHENBAUER Chicago, Ill., assignor, by mesne assignments, to The R. K. Le Blond Machine Tool Company. Filed Feb. 29, 1928. Serial No. 258,110. Original No. 1,372,075, dated Mar. 22, 1921, Serial No. 310,149, filed July 11, 1919. 23 Claims. (Cl. 82—9.)



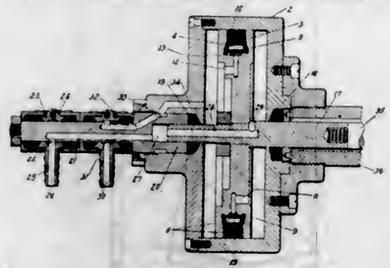
1. A crank shaft lathe comprising a frame; crank shaft holders journaled in the frame; a rotatable element journaled in the frame and connected with the crank shaft holders for simultaneous movement; a tool block reciprocally mounted in the rotatable element; resilient means tending to hold the tool block away from work in the crank shaft holders; and automatic feeding means in said rotatable element adapted to feed the tool block toward work in the crank shaft holders.

17,041. AUTOMATICALLY-CONTROLLED VAPOR-CONVERTER SUBSTATION. WILLIAM V. LOVELL, New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 13, 1923. Serial No. 631,922; Original No. 1,389,147, dated Aug. 30, 1921, Serial No. 194,457, filed Oct. 3, 1917. 15 Claims. (Cl. 175—363.)



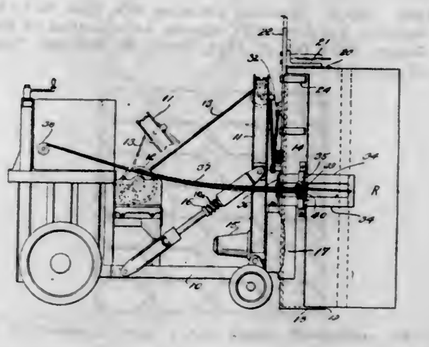
1. The combination with an alternating-current source and a direct-current consuming circuit, of a plurality of vapor converters and means for selectively connecting one or more of said converters to said source and to said circuit in accordance with the gas pressure within said converters.

17,042. PISTON AND PACKING. JOHN A. OLSON, Cleveland, Ohio, assignor to The S-P Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 15, 1927. Serial No. 184,106. Original No. 1,544,679, dated July 7, 1925, Serial No. 534,100, filed Feb. 4, 1922. 22 Claims. (Cl. 74—109.)



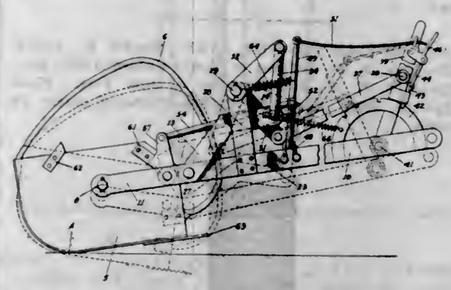
6. A fluid pressure operated piston comprising an end wall and an annular side wall provided with an annular groove, an endless, elastic, resilient member in the groove highly resistant to distortion freely movable bodily in the said groove and forming a cross wall therein, the said member being initially of greater width than the groove and substantially an elongated rectangle in cross section and having its edge portions distorted inwardly when positioned in the groove whereby the said edge portions automatically press outwardly into intimate contact with the sides of the said groove, and a wear ring in the said groove engaging the walls of a cylinder in which the piston is to reciprocate and being pressed by the cylinder walls against and flattening the portion of the said member with which it engages and increasing the pressure of the edge portions of the said member against the side walls of the groove.

17,043. INDUSTRIAL TRUCK. ALBERT R. GOLDRICK, Cleveland, Ohio, assignor to The Elwell-Parker Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 20, 1923. Serial No. 681,889. Original No. 1,439,233, dated Dec. 19, 1922, Serial No. 493,799, filed Aug. 20, 1921. 23 Claims. (Cl. 214—65.)



1. The combination in a truck of an upright frame mounted thereon, a load lifting member operatively mounted on the frame, means to raise said load lifting member and mechanism carried by the load lifting member and vertically movable relative thereto for automatically engaging the top surface of the load to clamp the top and bottom surfaces thereof when said load lifting member is raised.

17,044. SCRAPER. BRUCE E. ROSE, Stockton, and GEORGE WOOLWINE, Empire, Calif. Filed July 19, 1926. Serial No. 123,494. Original No. 1,460,340, dated June 26, 1923, Serial No. 550,382, filed Apr. 7, 1922. 2 Claims. (Cl. 37—140.)

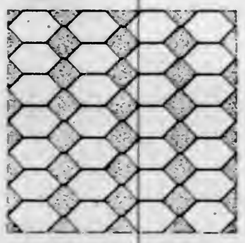


1. In a device of the character described, a scoop, draw bars pivoted to said scoop, said draw bars having offset portions, draft means pivoted to said draw bars at a point substantially midway of their length, said draft means comprising parallel spaced portions provided with offsets therein, standards secured to said draft means, a segment secured to said draft means, a lever pivoted to said draft means and adapted to move over said segment, a bar extending between said standards, levers mounted on the ends of said bar, links extending from said levers to the free ends of said draw bars and means for rotating said bar through the movement of said first mentioned lever for the purpose of moving the free ends of said draw bars toward said draft means.

DESIGNS

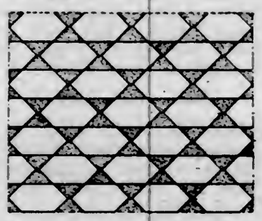
JULY 17, 1928.

75,761. ROOF. HERBERT ABRAHAM, New York, N. Y., assignor to The Ruberoid Company, a Corporation of New Jersey. Filed Oct. 21, 1921. Serial No. 509,430. Term of patent 14 years.



The ornamental design for a roof substantially as shown.

75,762. ROOF. HERBERT ABRAHAM, New York, N. Y., assignor to The Ruberoid Company, a Corporation of New Jersey. Filed Oct. 27, 1921. Serial No. 510,980. Term of patent 14 years.



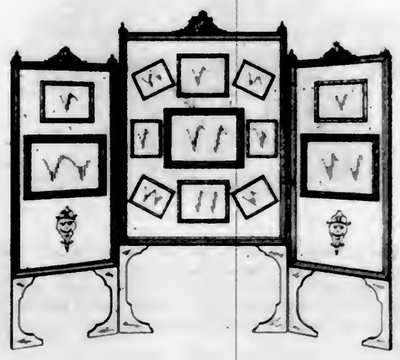
The ornamental design for a roof substantially as shown.

75,763. BOTTLE OR THE LIKE. RALPH B. ANNIS, Brooklyn, N. Y., assignor to Mower-Gulden Annis, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 24, 1928. Serial No. 26,444. Term of patent 14 years.



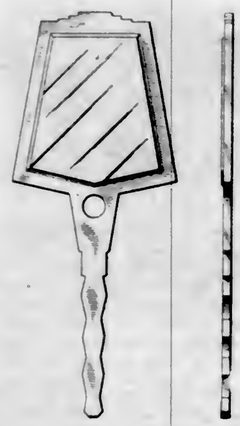
The ornamental design for a bottle or the like, as shown.

75,764. DISPLAY SIGN. JOSEPH B. AUERBACH, New York, N. Y., assignor to Joseph S. Arvid Co., New York, N. Y., a Corporation of New York. Filed Feb. 27, 1928. Serial No. 25,605. Term of patent 14 years.



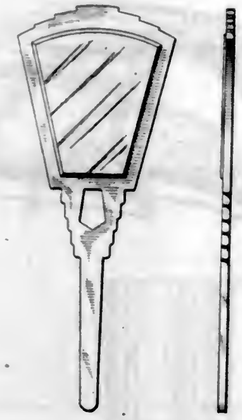
The ornamental design for a display sign, substantially as shown.

75,765. MIRROR OR SIMILAR TOILET ARTICLE. WILLIAM S. BECHTOLD, Newark, N. J. Filed Apr. 28, 1928. Serial No. 26,501. Term of patent 7 years.



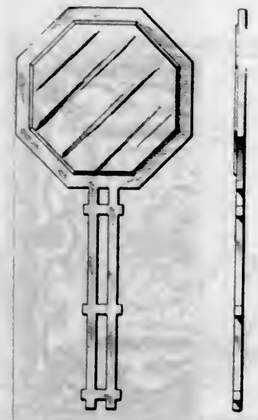
The ornamental design for a mirror or similar toilet article, as shown.

75,766. MIRROR OR SIMILAR TOILET ARTICLE. WILLIAM S. BECHTOLD, Newark, N. J. Filed Apr. 28, 1928. Serial No. 26,502. Term of patent 7 years.



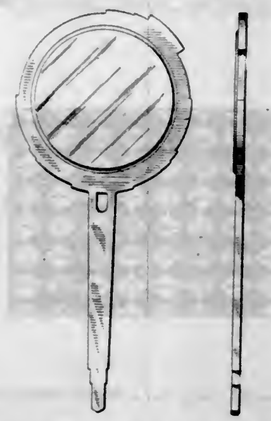
The ornamental design for a mirror or similar toilet article, as shown.

75,767. MIRROR OR SIMILAR TOILET ARTICLE. WILLIAM S. BECHTOLD, Newark, N. J. Filed Apr. 28, 1928. Serial No. 26,503. Term of patent 7 years.



The ornamental design for a mirror or similar toilet article, as shown.

75,768. MIRROR OR SIMILAR TOILET ARTICLE. WILLIAM S. BECHTOLD, Newark, N. J. Filed Apr. 28, 1928. Serial No. 26,504. Term of patent 7 years.



The ornamental design for a mirror or similar toilet article, as shown.

75,769. FUSE CONTAINER. RALPH S. BENNETT, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Jan. 27, 1928. Serial No. 25,052. Term of patent 14 years.



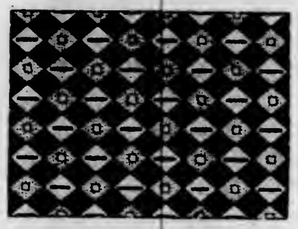
The ornamental design for a fuse container as shown.

75,770. TOY AVIATION DEVICE. SAMUEL I. BERGER, Newark, N. J. Filed Jan. 17, 1927. Serial No. 20,407. Term of patent 3½ years.



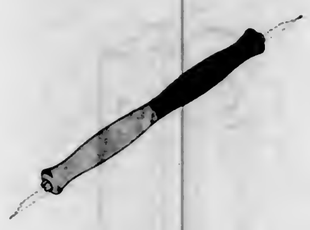
The ornamental design for a toy aviation device as shown.

75,771. TEXTILE FABRIC. LUCIEN BIVA, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J., a Corporation of New Jersey. Filed Feb. 9, 1928. Serial No. 25,323. Term of patent 3½ years.



The ornamental design for a textile fabric substantially as shown.

75,772. PENHOLDER. PARKER Z. BLOSER, Columbus, Ohio, assignor to The Zaner-Bloser Company, Columbus, Ohio, a Corporation of Ohio. Filed Apr. 17, 1928. Serial No. 26,357. Term of patent 14 years.



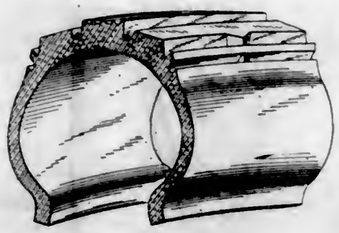
The ornamental design for a pen holder, as shown.

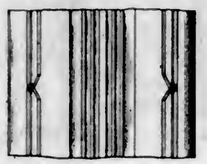
75,773. CUP. THOMAS MAITLAND CLELAND, Scarboro-on-the-Hudson, N. Y., assignor to Individual Drinking Cup Company, Inc., Easton, Pa. Filed Aug. 22, 1925. Serial No. 14,555. Term of patent 14 years.



The ornamental design for a cup, as shown.

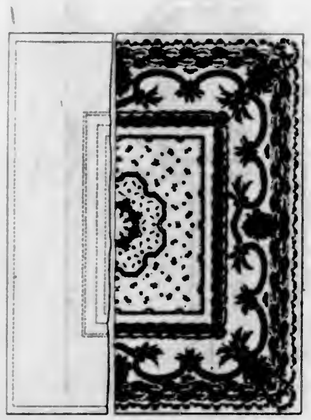
75,774. TIRE. EDWARD WILLIAM COLEMAN, Northolt Junction, England. Filed Sept. 3, 1927. Serial No. 23,294. Term of patent 14 years.





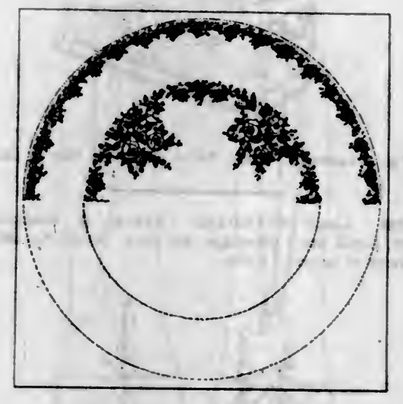
An ornamental design for a tire as shown.

75,775. TABLE COVER OR SIMILAR ARTICLE. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Sept. 22, 1927. Serial No. 23,500. Term of patent 3½ years.



The ornamental design for a table cover or similar article, as shown and described.

75,776. TABLE COVER OR SIMILAR ARTICLE. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Sept. 22, 1927. Serial No. 23,501. Term of patent 3½ years.



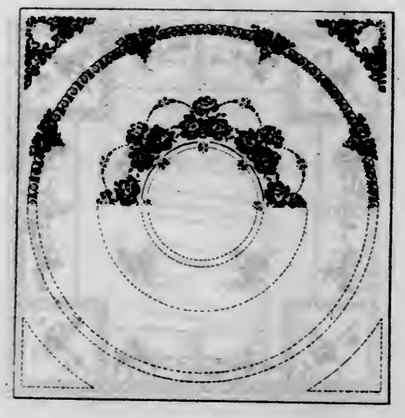
The ornamental design for a table cover or similar article, as shown and described.

75,777. TABLE COVER OR SIMILAR ARTICLE. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Sept. 22, 1927. Serial No. 23,503. Term of patent 3½ years.



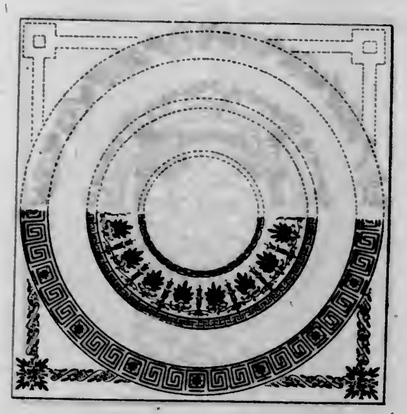
The ornamental design for a table cover or similar article, as shown and described.

75,778. TABLE COVER OR SIMILAR ARTICLE. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Sept. 22, 1927. Serial No. 23,504. Term of patent 3½ years.



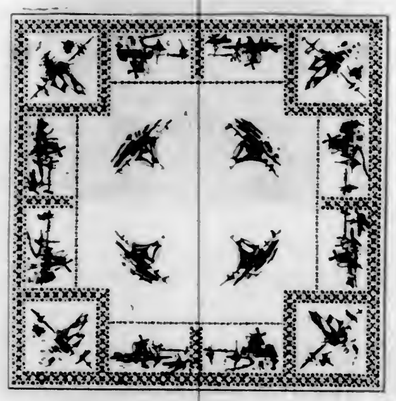
The ornamental design for a table cover or similar article, as shown and described.

75,779. TABLE COVER OR SIMILAR ARTICLE. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Sept. 22, 1927. Serial No. 23,505. Term of patent 3½ years.



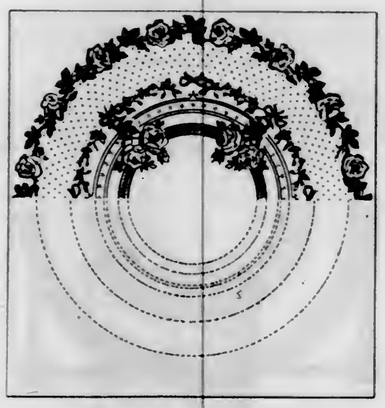
The ornamental design for a table cover or similar article, as shown and described.

75,780. TABLE COVER OR SIMILAR ARTICLE. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Sept. 22, 1927. Serial No. 23,506. Term of patent 3½ years.



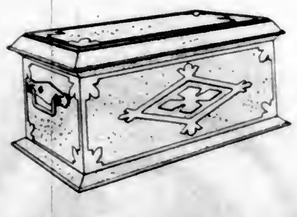
The ornamental design for a table cover or similar article, as shown.

75,781. TABLE COVER OR SIMILAR ARTICLE. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Sept. 22, 1927. Serial No. 23,507. Term of patent 3½ years.



The ornamental design for a table cover or similar article, as shown and described.

75,782. DECORATED BOX. FELIX EBERHART, Arlington, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed May 7, 1928. Serial No. 26,602. Term of patent 14 years.



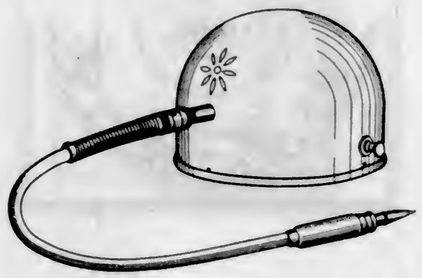
The ornamental design for a decorated box as shown.

75,783. LAMP STANDARD. SAMUEL G. EDMONDSON, St. Louis, Mo. Filed Apr. 20, 1928. Serial No. 26,398. Term of patent 7 years.



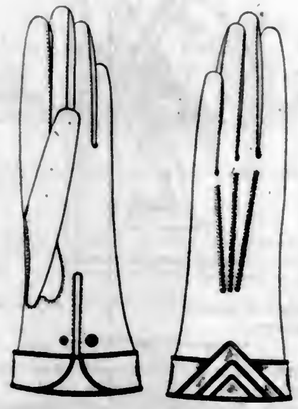
The ornamental design for a lamp standard, as shown.

75,784. MANICURING INSTRUMENT. IDA M. ELDRIDGE, Los Angeles, Calif., assignor of one-half to Lena R. Hoefler, Los Angeles, Calif. Filed May 3, 1926. Serial No. 17,540. Term of patent 3½ years.



The ornamental design for a manicuring instrument, substantially as shown.

75,785. GLOVE. JOHN FITZ GIBBON, Bronxville, N. Y., assignor to The Fitz Gibbon Co., Inc., New York, N. Y., a Corporation of New York. Filed Mar. 19, 1927. Serial No. 21,213. Term of patent 3½ years.



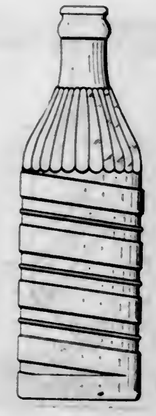
The ornamental design for a glove as shown.

75,786. WALL-POT HOLDER. MAUD C. FOX, New York, N. Y. Filed May 9, 1928. Serial No. 26,612. Term of patent 3½ years.



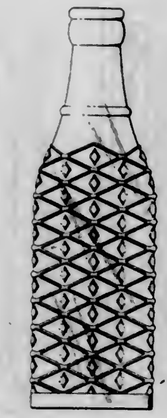
The ornamental design for a wall pot holder as shown.

75,787. BOTTLE. PAUL A. GINTER, Toledo, Ohio, assignor to The American Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 23, 1928. Serial No. 26,425. Term of patent 14 years.



The ornamental design for a bottle, substantially as shown.

75,788. BOTTLE. PAUL A. GINTER, Toledo, Ohio, assignor to The American Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 23, 1928. Serial No. 26,426. Term of patent 14 years.



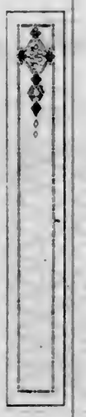
The ornamental design for a bottle, substantially as shown.

75,789. BOTTLE. PAUL A. GINTER, Toledo, Ohio, assignor to The American Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 23, 1928. Serial No. 26,427. Term of patent 14 years.



The ornamental design for a bottle, substantially as shown.

75,790. TILE OR ARTICLE OF SIMILAR NATURE. ERIC H. GIBIAN, Chicago, Ill., assignor to The Vitrolite Company, a Corporation of West Virginia. Filed Oct. 13, 1927. Serial No. 23,739. Term of patent 7 years.



The ornamental design for a tile or article of similar nature, as shown.

75,791. TILE OR ARTICLE OF SIMILAR NATURE. ERIC H. GIBIAN, Chicago, Ill., assignor to The Vitrolite Company, a Corporation of West Virginia. Filed Oct. 13, 1927. Serial No. 23,740. Term of patent 7 years.



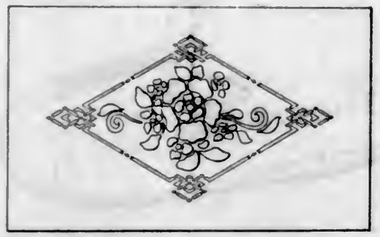
The ornamental design for a tile or article of similar nature, as shown.

75,792. TIRE. THORNTON G. GRAHAM, Kent, and HENRY F. SCHIPPEL, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Jan. 20, 1928. Serial No. 24,952. Term of patent 14 years.



The ornamental design for a tire as shown.

75,793. TILE OR ARTICLE OF SIMILAR NATURE. LILLIAN GUNTHER and ERIC H. GIBIAN, Chicago, Ill., assignors to The Vitrolite Company, a Corporation of West Virginia. Filed Oct. 13, 1927. Serial No. 23,748. Term of patent 7 years.



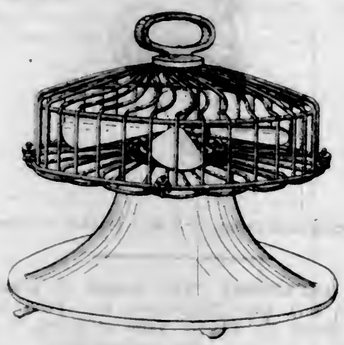
The ornamental design for a tile or article of similar nature, as shown.

75,794. WALL-PAPER PANEL OR THE LIKE. HARRY L. HOFFMAN, New York, N. Y., assignor to Richard E. Thibaut, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 27, 1928. Serial No. 26,473. Term of patent 7 years.



The ornamental design for a wall paper panel or the like, as shown.

75,795. ELECTRIC FAN. HARVEY HUBBELL, Jr., Bridgeport, Conn., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn., a Corporation of Connecticut. Filed Feb. 14, 1927. Serial No. 20,749. Term of patent 3½ years.



The ornamental design for an electric fan substantially as shown.

75,796. RING OR SIMILAR ARTICLE. LAWSON L. JAFFE, Chicago, Ill., assignor to S. Wechter Company, a Corporation of Illinois. Filed Feb. 1, 1928. Serial No. 25,129. Term of patent 14 years.



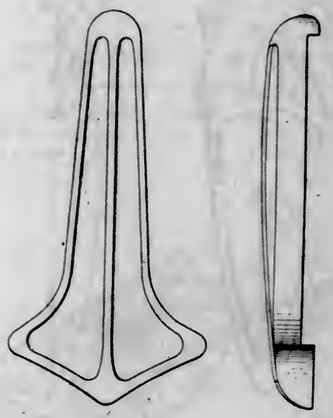
The ornamental design for a ring or similar article substantially as shown and described.

75,797. RING OR SIMILAR ARTICLE. LAWSON L. JAFFE, Chicago, Ill., assignor to S. Wechter Company, a Corporation of Illinois. Filed Apr. 7, 1928. Serial No. 26,173. Term of patent 14 years.



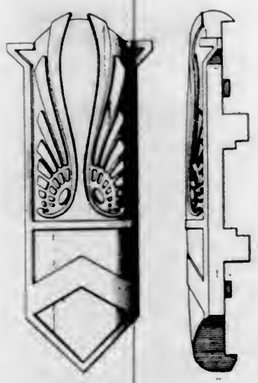
The ornamental design for a ring or similar article substantially as shown and described.

75,798. CLAMP PLATE. HERBERT S. JANDUS, Detroit, Mich., assignor to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Sept. 9, 1927. Serial No. 23,339. Term of patent 14 years.



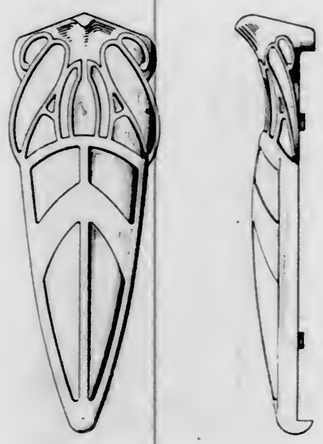
The ornamental design for a clamp plate, substantially as shown.

75,799. CLAMP PLATE. HERBERT S. JANDUS, Detroit, Mich., assignor to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Sept. 9, 1927. Serial No. 23,340. Term of patent 14 years.



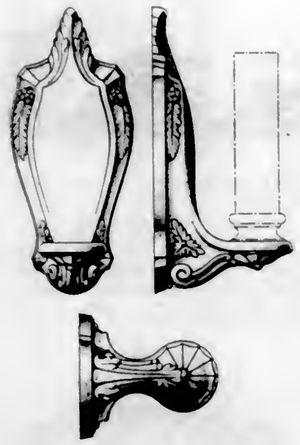
The ornamental design for a clamp plate, substantially as shown.

75,800. CLAMP PLATE. HERBERT S. JANDUS, Detroit, Mich., assignor to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Sept. 9, 1927. Serial No. 23,341. Term of patent 14 years.



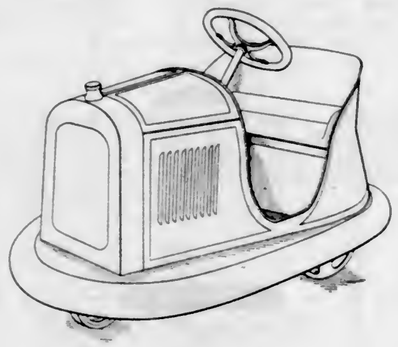
The ornamental design for a clamp plate, substantially as shown.

75,801. WALL BRACKET. CHARLES LEHRMAN, Brooklyn, N. Y., assignor to Levolite Co. Inc., New York, N. Y., a Corporation of New York. Filed Apr. 27, 1928. Serial No. 26,474. Term of patent 7 years.



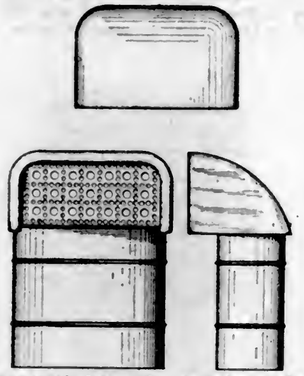
The ornamental design for a wall bracket, as shown.

75,802. AMUSEMENT CAR. JOSEPH C. LUSSE and ROBERT J. LUSSE, Philadelphia, Pa. Filed Aug. 6, 1927. Serial No. 23,017. Term of patent 14 years.



The ornamental design for an amusement car substantially as shown.

75,803. DEFLECTOR FLUE CAP. JOSEPH A. MCCARTHY, Jamaica, N. Y. Filed Mar. 29, 1928. Serial No. 26,061. Term of patent 7 years.



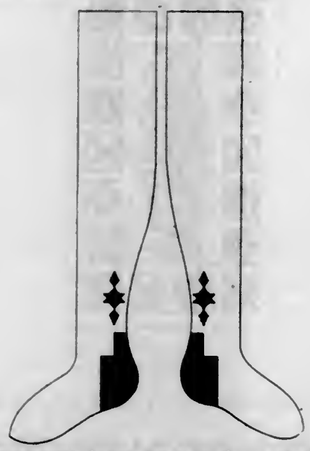
The ornamental design for a deflector flue cap, as shown.

75,804. EYEGLASS FRAME. FAY MCFADDEN, Rutland, Vt., assignor to Bay State Optical Company, Attleboro, Mass., a Corporation of Maine. Filed Oct. 24, 1927. Serial No. 23,855. Term of patent 14 years.



The ornamental design for an eyeglass frame as shown.

75,805. STOCKING. ERNST OSCAR NEBEL, Philadelphia, Pa., assignor to Oscar Nebel Co. Inc., Hatboro, Pa., a Corporation of Pennsylvania. Filed May 11, 1928. Serial No. 26,642. Term of patent 7 years.



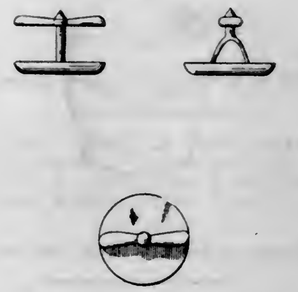
The ornamental design for a stocking substantially as shown.

75,806. CUFF LINK. JOSEF PEJCHAR, Brooklyn, N. Y. Filed Sept. 3, 1926. Serial No. 18,965. Term of patent 14 years.



The ornamental design for a cuff link, as shown.

75,807. CUFF BUTTON OR SIMILAR ARTICLE. FREDERICK CARLYLE RILE, Chicago, Ill. Filed Mar. 2, 1928. Serial No. 25,650. Term of patent 14 years.



The ornamental design for a cuff button or similar article, as shown.

75,808. BOX. FRANK J. SCHLEICHER, St. Louis, Mo. Filed Apr. 26, 1928. Serial No. 26,467. Term of patent 14 years.



The ornamental design for a box, substantially as shown.

75,809. FINGER RING. JOHN SCHUMER, Cincinnati, Ohio, assignor to The Schumer Brothers Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 12, 1927. Serial No. 23,734. Term of patent 7 years.



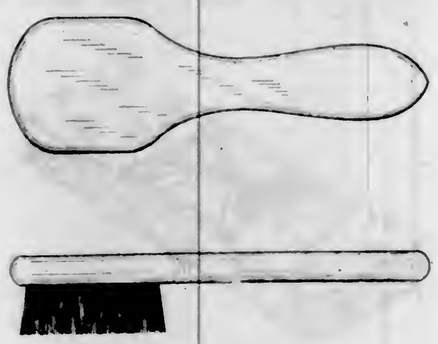
The ornamental design for a finger ring as shown.

75,810. VIGIL LIGHT CUP. EARL SHEELEY, Philadelphia, Pa., assignor to Wright Manufacturing Company, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 8, 1928. Serial No. 26,609. Term of patent 14 years.



The ornamental design for a vigil light cup, as shown.

75,811. BRUSH. HENRY E. SMITH, Troy, N. Y., assignor to Parks & Parks, Inc., Troy, N. Y., a Corporation of New York. Filed Sept. 15, 1926. Serial No. 19,075. Term of patent 7 years.



The ornamental design for a brush, as shown.

75,812. TILE OR ARTICLE OF SIMILAR NATURE. FRANK SOHN, Chicago, and LOUIS G. MARMION, Villa Park, Ill., assignors to The Vitrolite Company, a Corporation of West Virginia. Filed Aug. 17, 1927. Serial No. 23,131. Term of patent 7 years.



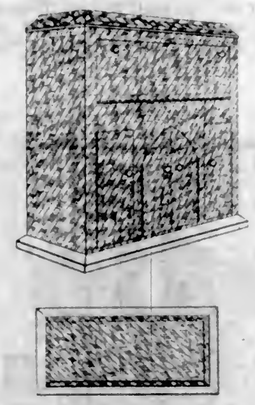
The ornamental design for a tile or article of similar nature, as shown.

75,813. TILE OR ARTICLE OF SIMILAR NATURE. FRANK SOHN, Chicago, and LOUIS G. MARMION, Villa Park, Ill., assignors to The Vitrolite Company, a Corporation of West Virginia. Filed Aug. 17, 1927. Serial No. 23,132. Term of patent 7 years.



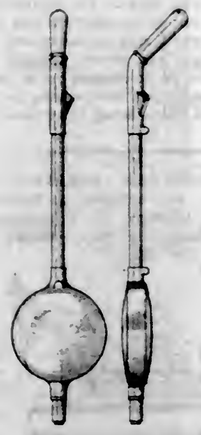
The ornamental design for a tile or article of similar nature, as shown.

75,814. RADIO-RECEIVING-SET CABINET. ALBERT TAYLOR, Henryville, Ind. Filed Mar. 13, 1928. Serial No. 25,824. Term of patent 3½ years.



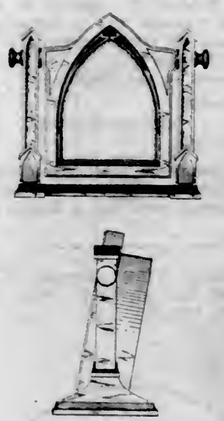
The ornamental design for a radio receiving set cabinet, as shown.

75,815. VACUUM-CLEANER HANDLE. BERNARD J. TAMARIN, Philadelphia, Pa. Filed Apr. 3, 1928. Serial No. 26,112. Term of patent 14 years.



The ornamental design for a vacuum cleaner handle as shown.

75,816. CLOCK CASE. RICHARD H. WHITEHEAD, New Haven, Conn., assignor to The New Haven Clock Co., New Haven, Conn., a Corporation. Filed Sept. 1, 1927. Serial No. 23,269. Term of patent 14 years.



The ornamental design for a clock case as shown.

75,817. LIGHTING FIXTURE. JOSEPH ZWEIG, Brooklyn, N. Y., assignor to Metropolitan Lamp Co. Inc., New York, N. Y., a Corporation of New York. Filed May 2, 1928. Serial No. 26,544. Term of patent 3½ years.



The ornamental design for a lighting fixture substantially as shown.

PATENTS

GRANTED JULY 17, 1928.

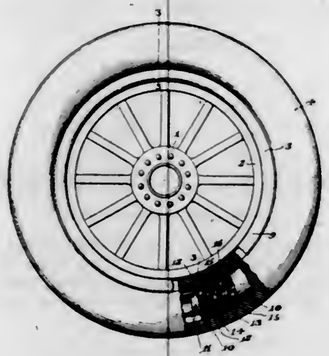
1,677,123. CYCLOPENTENYL ALKYL ACETIC ACID. ROGER ADAMS, Urbana, Ill., assignor to Abbott Laboratories, North Chicago, Ill., a Corporation of Illinois. Filed Aug. 25, 1927. Serial No. 215,517. 3 Claims. (Cl. 260—108.)

1. New compounds of the formula

$$\begin{matrix} CH=CH \\ | \quad \diagdown \\ CH_2-CH_2 \end{matrix} CH-CH(R)\,COOZ,$$

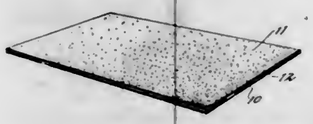
in which R represents an alkyl group containing five or more carbon atoms, and Z represents hydrogen or a substituted hydrogen, such as a metal or an alkyl group.

1,677,124. CUSHION TIRE. ANTOINE L. ALAJ, Chicago, Ill. Filed May 27, 1927. Serial No. 194,740. 2 Claims. (Cl. 152—8.)



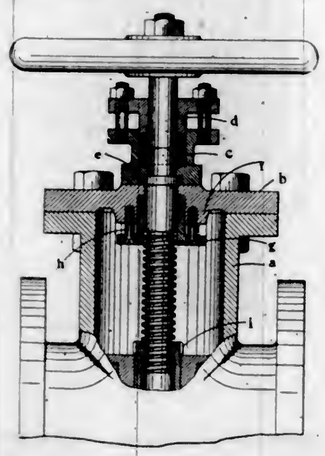
1. In a cushion tire a core comprising a pair of resilient tubes one arranged within the other, a fabric tube interposed between said resilient tubes, and a hollow annulus in the form of closely arranged spring coils interlaced with the strands or threads of the fabric tube.

1,677,125. LEATHER PRODUCT. MILTON H. COOK, San Francisco, Calif., assignor to The H. N. Cook Belting Company, San Francisco, Calif., a Corporation of California. Filed June 26, 1926. Serial No. 118,764. 2 Claims. (Cl. 91—68.)



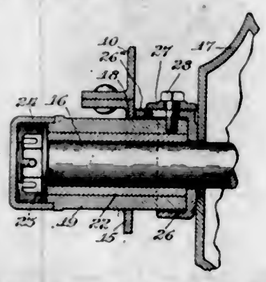
1. An article of manufacture comprising a sheet of celluloid, having a surface coated with granulated particles of leather, the celluloid material of the surface constituting a binder for holding the granulated particles together and to the said surfaces.

1,677,126. VALVE. HUBERT WALTER DENNIS, London, England. Filed June 17, 1925, Serial No. 37,855, and in Great Britain June 30, 1924. 3 Claims. (Cl. 251—48.)



1. A valve comprising in combination, a casing, a movable valve disposed within said casing, a closure member upon and forming part of said casing, a main stuffing box disposed upon said closure member, an inverted auxiliary stuffing box disposed on the underside of said closure member and within said casing, a valve spindle passing through said closure member and through said main and auxiliary stuffing boxes, an inverted gland ring and packing forming part of said auxiliary stuffing box, means for maintaining said inverted gland ring loosely in position and for permitting the said inverted gland ring to be moved into the said auxiliary stuffing box, and means adapted in the raised position of said valve to engage said inverted gland ring to apply pressure upon the packing in said auxiliary stuffing box on said valve being fully open, substantially as described.

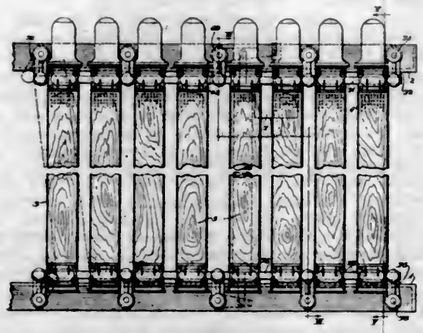
1,677,127. LAND-ROLLER BEARING. SAMUEL K. DENNIS, Chicago, Ill., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 30, 1923. Serial No. 635,540. 2 Claims. (Cl. 308—22.)



1. In a land roller, the combination with the frame, shaft, and roller thereon, of an end bracket secured to

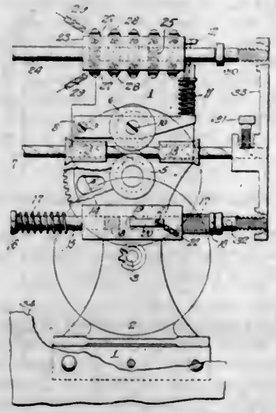
the frame, a journal sleeve supported in said bracket and receiving one end of the roller shaft, a clamping member carried on the inner end of said journal sleeve and bearing on the end of the roller, and axially adjustable connecting means between the sleeve and clamping member.

1,677,128. OSCILLATING SUCTION BOX. ALONZO ALDRICH, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a Corporation of Wisconsin. Filed Dec. 5, 1927. Serial No. 237,802. 12 Claims. (Cl. 92—51.)



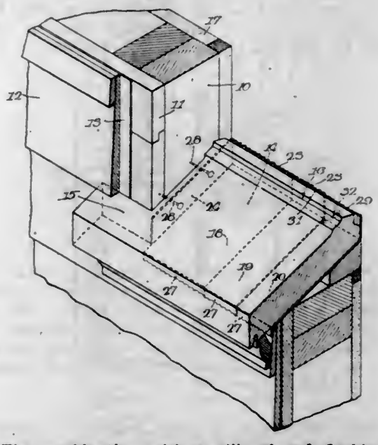
8. In a device of the class described, a pair of longitudinally extending vibrating hanger bars adapted to remain in parallel relation during vibration, a plurality of suction boxes and means for suspending said boxes from said hanger bars to permit relative movement between adjacent surfaces of said boxes and said bars.

1,677,129. AUTOMATIC ELECTRIC DOOR CONTROL. HERBERT CADY BLODGETT, Kalamazoo, Mich., assignor to Door Control Company, Hartford City, Ind., a Corporation of Indiana. Filed Feb. 12, 1926. Serial No. 87,831. 4 Claims. (Cl. 192—142.)



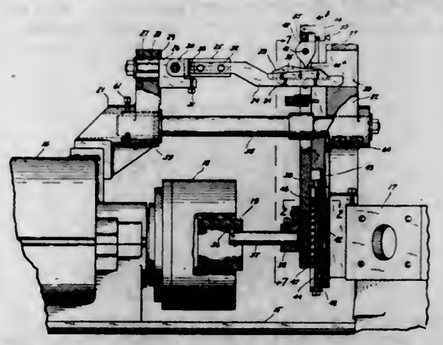
3. In an electrically operated door or gate control, an electric motor, a connection and support therefor on the said door or gate, friction drive means connected to said motor, a traction connection supported adjacent the path of said door engaged by the said friction drive, a cut-out switch carried by the motor support, stops for actuating the same at each end of the travel of said door, a reversing switch carried by the said motor support with stops for shifting the same at the end of travel of said door, and a control switch to start the action, as specified.

1,677,130. SILL FLASHING. GEORGE L. CHERRY, Portland, Oreg. Filed Feb. 7, 1927. Serial No. 166,320. 6 Claims. (Cl. 20—11.)



3. The combination with a sill, of end flashing disposed thereunder, intermediate flashing on said end flashing to permit a variable spread thereof, and corrugations impressed in said flashing to effect unidirectional drainage thereon.

1,677,131. MACHINE TOOL FOR BORING AND TURNING IRREGULAR SURFACES. LESTER M. COLE, Cleveland Heights, EDMUND H. HALTER, Maple Heights, and ROBERT H. LEWIS, Cleveland, Ohio, assignors to The Warner & Swasey Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 10, 1927. Serial No. 225,271. 22 Claims. (Cl. 29—57.)

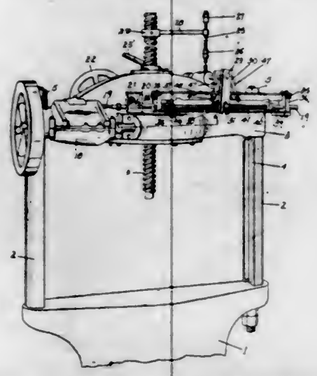


1. In a machine tool, a work holding member, a tool holding member, a cam, a follower engaging the cam and operatively connected to the tool holder, said follower being movable from an operative position to an inoperative position to relieve the tool from the work piece on the completion of a cut, and a movable retainer for normally holding the follower in operative position.

16. An attachment for a machine tool for cutting irregular surfaces on a work piece, said attachment comprising a pair of brackets adapted to be attached respectively to the work and tool holding members of

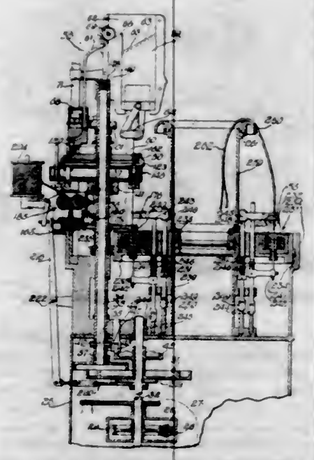
the machine tool, one bracket being adapted to support a cam and the other having a movable tool holder, a follower engageable with the cam, and spring means acting on the movble tool holder so as to tend to move the same in one direction or in a direction opposite thereto, depending upon the relative positions of the cam and follower.

1,677,132. HIGH-PRESSURE POWER PRESS. JAMES G. COLLINS, Kalamazoo, Mich., assignor to Atlas Press Company, Kalamazoo, Mich. Filed Nov. 8, 1921. Serial No. 513,813. 1 Claim. (Cl. 100—8.)



A power press, stop means for controlling the same comprising pivoted latches with beveled ends, a slide for actuating the same alternately, and a rock shaft with arm and slot link connections for raising said latches out of engagement, as specified.

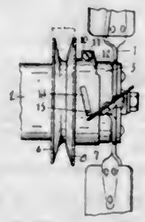
1,677,133. METHOD OF AND MACHINE FOR FEEDING AND WORKING ARTICLES. BEN KING FORD, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 29, 1924. Serial No. 758,570. 12 Claims. (Cl. 29—33.)



1. A method of preparing and attaching terminals to electrical conductors, which consists in supplying blanks in predetermined numbers to a receiving position from a supply of promiscuously arranged blocks, transferring the received blanks to and uniformly arranging them at a working position, forming the blanks into terminals by preparing them to receive the ends of electrical conductors, transferring the terminals to a heating position and contemporancously therewith changing the arrangement of the terminals, withdrawing soldering material from a supply thereof, severing the withdrawn material from the supply, feeding the severed portion to the prepared portion of the terminal, heating the terminals to fuse the soldering material therein, associating the ends of conductors with the fused solder in the terminals, and transferring the terminals and the conductors from the heating to a cooling position.

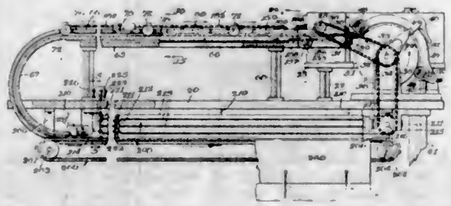
12. In a machine for soldering tips to the ends of electrical conductors, a carrier for the conductors adapted to support the ends thereof to be tipped, solder fusing elements mounted thereon, means for feeding tips and solder to said heating elements at predetermined intervals, and means for projecting at predetermined intervals the ends of the conductor to be tipped into the fused solder and finally removing at predetermined intervals the tipped conductor ends from the heating element.

1,677,134. PULLEY. TRUMAN B. FUNK, Jackson, Mich., assignor to Automotive Fan & Bearing Company, Jackson, Mich. Filed Mar. 4, 1927. Serial No. 172,668. 10 Claims. (Cl. 64—17.)



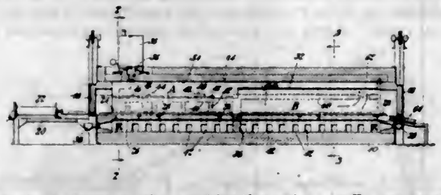
1. A pulley comprising a cylindrical barrel having an outwardly inclined pulley flange at its outer end, and an inturned attaching flange at its inner end and a lug adjacent its inner end, a sleeve adjustably mounted on said barrel and having an inwardly inclined pulley flange at its outer end and a notch at its inner end, there being projecting flanges at the edges of said notch providing opposed clamping bolt ears, portions of the edges of said notch being inclined, and a bolt disposed through said ears to clamp said sleeve in its adjusted position upon said barrel, said lug being bendable to permit the sleeve being slipped over the lug and the lug bent up to engage the sleeve.

1,677,135. STRAND-WORKING MECHANISM. CARL ODENWALD HAASE, Winnetka, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 20, 1924. Serial No. 757,283. 9 Claims. (Cl. 140—140.)



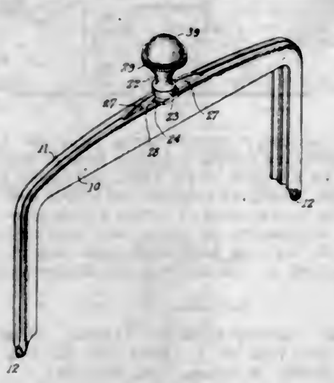
1. In an apparatus for severing a strand into predetermined lengths, a runway, means for moving the strand along said runway, a rotatable severing mechanism, resilient means actuated by the moving strand for operating the severing mechanism, and means for restoring in said resilient means the energy, dissipated during each operation of the severing mechanism.

1,677,136. CONTINUOUS CARBONIZING FURNACE. WILLIAM M. HEPBURN, Denver, Colo., assignor to Surface Combustion Company, a Corporation of New York. Filed Feb. 15, 1926. Serial No. 88,197. 12 Claims. (Cl. 263—6.)



1. In a furnace, the combination of a muffle, an open top heating chamber having heat permeable walls, the floor and walls of said chamber forming a continuation of the floor and side walls of the muffle, a combustion chamber formed beneath the floor of said chamber, ports through which the hot gases from the combustion chamber may pass upwardly exteriorly of the walls of said heating chamber to heat the same, means permitting hot gases to circulate around the muffle, the furnace at a point remote from the muffle having openings through which the spent gases may pass out of the furnace.

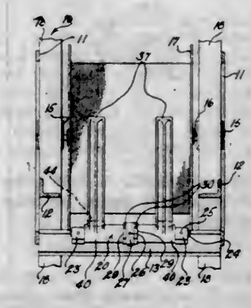
1,677,137. BAG FASTENER. WILLIAM C. HERRING, Newark, N. J., assignor to J. E. Mergott Co., Newark, N. J., a Corporation of Delaware. Filed May 25, 1927. Serial No. 193,965. 5 Claims. (Cl. 292—202.)



1. A bag fastener comprising the combination with a pair of hinged frames, of a tiltable post mounted on one of said frames, a torsional spring in the frame to retain said post normally erect, said post having a chambered base, a stud fixed in the other frame, said stud being engageable in the chamber of said post, a knob revolubly mounted on said post, keepers fixed on the stud carried frame, and means on said knob engageable by said keepers when in one position and free therefrom when the knob is in another position.

1,677,138. TENSION DEVICE. JOHN CAMPBELL HODGE, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 30, 1927. Serial No. 187,965. 8 Claims. (Cl. 242—156.)

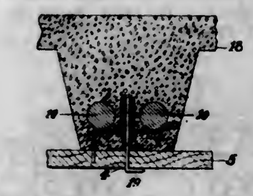
1. A device for maintaining a substantially constant tension in a strand being withdrawn from a supply thereof, comprising a pivotal brake arm for engaging the periphery of the strand supply, resilient means connected at one end to the arm and disposed coaxial with the pivotal portion thereof for maintaining the arm under pressure against the strand supply, an adjustable member coaxial with and connected to the other end of the resilient means for controlling the tension thereof to vary the braking effect of the arm, and a housing for the resilient means extending from the arm and abutting the member to maintain it in predetermined longitudinal relation with the arm.



1,677,139. PROCESS FOR INCREASING THE PERMEABILITY OF SILICON STEEL. JOHN CLARENCE KARCHER, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 19, 1924. Serial No. 738,714. 9 Claims. (Cl. 148—13.)

1. A process for increasing the permeability of silicon steel, which consists in heating the silicon steel at a temperature between 1000° C. and 1250° C., cooling at a rate of not more than 10° C. per minute, reheating the silicon steel at a temperature between 550° C. and 800° C., and cooling the steel slower than quenching in water but faster than quenching in open air.

1,677,140. BUILDING CONSTRUCTION. JOHN S. KETTERMAN, Dallas, Tex. Filed Sept. 10, 1927. Serial No. 218,641. 3 Claims. (Cl. 72—118.)

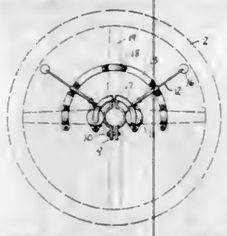


1. In a structure of the kind described, a corrugated nail supporting strip of sheet metal bent upon itself along its center longitudinal line; a rod supporting stool superimposed over the nail supporting strip, and a nail passed through the bights of the two elements.

1,677,141. SIGNAL-CONTROL SWITCH. PAUL KOROKNAY, Houston, Tex. Filed Mar. 23, 1927. Serial No. 177,552. 3 Claims. (Cl. 200—59.)

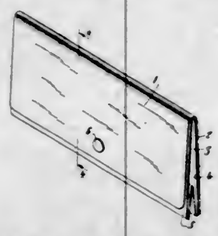
1. A switch attachment for steering wheels including a bracket below said steering wheel, opposite button switches on said bracket controlling the circuit of a lan-

tern, an arcuate frame on said steering wheel, radially extending levers pivotally supported on said frame, handles on said levers adjacent the rim of said steering



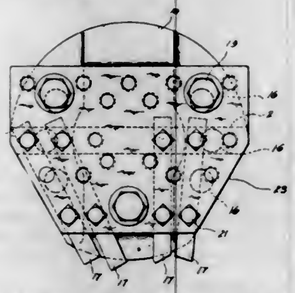
wheel, and arcuate extensions on said levers adapted to slidably contact with said button switches when said handles are depressed.

1,677,142. HAND BAG. GEORGE MICHEL ENOEL-KRON, New York, N. Y., and SERGE TREY, Stamford, Conn. Filed July 13, 1927. Serial No. 205,328. 9 Claims. (Cl. 150—2S.)



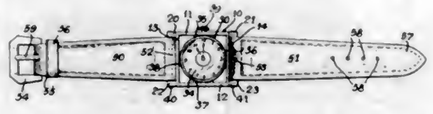
1. In a hand bag, the combination with a receptacle, of a removable cover therefor, a thin metal plate folded upon itself to form two closely spaced members, one of said members being shaped to conform with the walls of said receptacle and the other member being cut into strips projecting tongue-like from the connecting line of said two members, means for holding said first mentioned member on one end portion of said cover, and pockets in one of the walls of said receptacle for the reception of said strips.

1,677,143. MULTIPLE TOOL HOLDER FOR CROSS SLIDES OF LATHES. MAX E. LANGE and ALVA L. EVANS, East Cleveland, Ohio, assignors to The Warner and Swasey Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 14, 1926. Serial No. 122,327. 2 Claims. (Cl. 82—36.)



1. A tool holder for the cross-slide of a lathe having a lower portion adapted to be secured to the cross-slide in a plurality of different positions including positions which are complete reversals of others and having an upper tool receiving portion with provision for clamping one or a plurality of tools therein in any one of a number of predetermined positions in definite relation to the different positions of the holder on the cross-slide, said holder being polygonal-shaped with provision for supporting tools so that they may project from any face thereof, and being provided with corners cut away on lines having definite relation to the adjacent parts of the lathe in the different positions in which the holder may be placed on the cross-slide forming faces of different lengths.

1,677,144. WATCHCASE. ABRAHAM LASKA, New York, N. Y., assignor to Hipp. Didisheim Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 21, 1925. Serial No. 63,813. 3 Claims. (Cl. 224—4.)



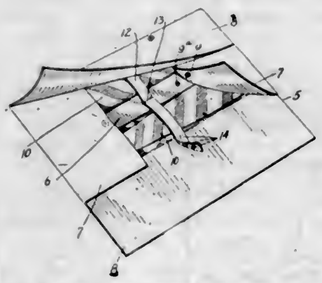
1. In a watchcase construction, an outer, substantially rectangular frame member and an inner watchcase member having a back member and a bezel member, the latter of which is attached to said outer, substantially rectangular frame member at spaced points within the same, the frame member being apertured to admit the passage therethrough of the stem and sufficient clearance being provided between the bezel member and the outer frame member to permit the application and removal of the back member.

1,677,145. GARMENT. FRANK LERNER, New York, N. Y. Filed Sept. 21, 1927. Serial No. 220,862. 2 Claims. (Cl. 2—78.)



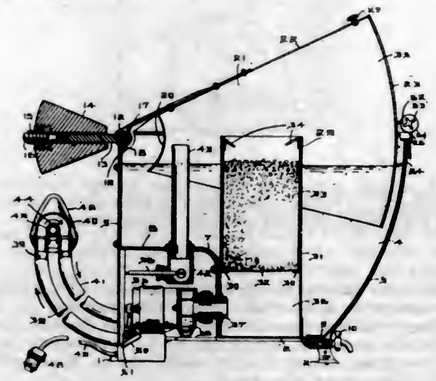
1. The method of manufacturing union suit garments, which comprises cutting a tubular piece of fabric transversely for a portion of its width, and thence longitudinally thus forming an extension and a main body portion, narrowing the extension by cutting out marginal portions thereof intermediate its length, and carrying the outer end of the extension back to the main body of the tube and stitching it into position, all substantially as described.

1,677,146. TIE CASE OR CONTAINER. CHARLES LOBNER, New York, N. Y. Filed Jan. 22, 1927. Serial No. 162,859. 6 Claims. (Cl. 150—53.)



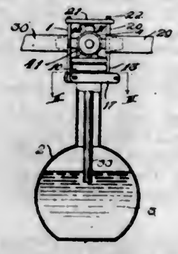
1. A case of the class described comprising an elongated, central body, flaps at the ends of said body and foldable onto one face thereof, means for securing said flaps to said body, other flaps at the sides of said body and foldable onto the first named flaps and said body, said case with the flaps folded thereonto, being folded centrally to bring the side flaps adjacent each other, means for securing said flaps together to close the case, the central inner face of the body being provided with a strap having free end portions extending to the sides of said body, and means for adjustably securing the ends of said strap.

1,677,147. GAS MEASURING. ELMER I. MCKESSON, Toledo, Ohio. Filed Oct. 10, 1921. Serial No. 506,584. 8 Claims. (Cl. 128—191.)



1. Respiration mechanism comprising an inhaler, duct sections to and from the inhaler, a gasometer connecting the ends of the duct sections remote from the inhaler, said gasometer including a liquid reservoir, a float providing a chamber above the liquid level in the reservoir into which chamber above the liquid level the ends of the duct sections project, a fulcrum mounting for the chamber permitting movement thereof as to the reservoir, and chamber operation disclosing means movable on a common axis with said fulcrum.

1,677,148. BY-PASS VALVE FOR GAS-WASHING APPARATUS. RUDOLPH ROSNER, Chicago, Ill. Filed Oct. 29, 1926. Serial No. 145,004. 5 Claims. (Cl. 261—121.)

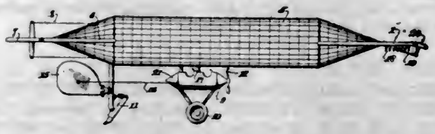


4. In combination, a by-pass valve adapted to be mounted on the top of a neck portion of a container, a tube connected to said valve and extending downwardly through said neck portion and into a liquid in the container, said valve including an inlet adapted to be connected to said tube to deliver gas into said container, and an outlet connected to the interior of the said neck portion of said container for discharging the gas from the container after it has passed through said liquid, said valve having a body including a flange cooperable with the flange on the upper end of the neck portion of the container, and means for clamping said flanges together comprising a pair of cooperable clamp members disposed about said flanges and detachably anchored to each other.

1,677,149. MANUFACTURE OF TEXTILE FIBERS FROM ANIMAL HAIR AND BRISTLES. WILHELM HELMUT SCHWEITZER, Heidelberg, Germany, assignor, by mesne assignments, to American Lanil Corporation, a Corporation of New Jersey. Filed Nov. 17, 1922, Serial No. 601,646, and in Germany Feb. 13, 1922. 2 Claims. (Cl. 8—21.)

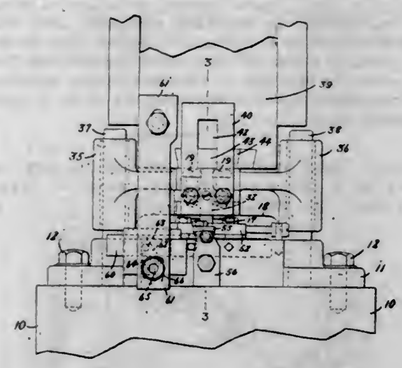
1. A process for the production of animal fibers suitable for use in the production of textile fabrics, which consists in taking animal fibers which have been oxidized and subjecting the same to a bath of caustic soda solution from 0.1% to 0.15% in strength and sufficient to form an alkaline salt upon the fibers whilst insufficient in strength to dissolve the albumin bodies present therein, washing the thus treated fibers and drying the same.

1,677,150. COMBINATION AIRPLANE AND ZEPPELIN. WAYNE F. SHORT, Bloomington, Ind. Filed Feb. 1, 1928. Serial No. 251,205. 1 Claim. (Cl. 244—6.)



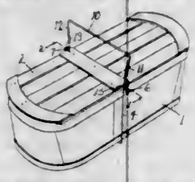
In an airship, two wing surfaces one at each end of a rigid gas bag, a front end flap connected to the front wing surface, a rudder pivoted to a shaft, said shaft being connected to the framework of the gas bag and carrying a landing pin, a vertical motion flap located at the rear end of the structure and connected to the rear wing surface, a gondola connected to the gas bag framework and to which two wheels are attached for landing purposes.

1,677,151. MACHINE FOR MAKING NUT BLANKS AND SIMILAR ARTICLES. HOWARD D. SIMKINS and JOHN BURKHARDT, Cleveland, Ohio, assignors to The Superior Screw & Bolt Manufacturing Company, a Corporation of Ohio. Filed Dec. 9, 1926. Serial No. 153,478. 4 Claims. (Cl. 164—13.)



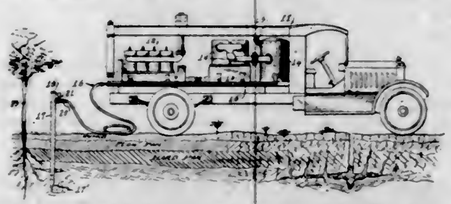
1. In a machine for making blanks from a strip of metal, the combination of a shearing punch and a co-operating die, means for supporting and positioning the metal strip so that an end portion extends a definite distance over said die, means for actuating said punch to simultaneously sever two blanks and to cause one thereof to be discharged through said die, means for ejecting the other blank, and means whereby said ejecting means is caused to operate in a definite time relation with the operation of said shearing punch.

1,677,152. BASKET HANDLE. BENJAMIN H. SMITH, Niles, Mich., assignor to Michigan Wire Goods Company, Niles, Mich. Filed Apr. 21, 1927. Serial No. 185,465. 8 Claims. (Cl. 217—125.)



7. The combination with a receptacle of a receptacle bail having arms terminating in eyes, one of the eyes having an extension engaged within the rim of the receptacle, and a handle having inwardly converging arms, one of the arms terminating in an outwardly projecting eye engaged in said eye of said bail having the extension, the other arm having an outwardly offset loop pivotally engaged in the other eye of the bail and terminating in a downwardly projecting angled retaining finger engaging within the rim of the receptacle.

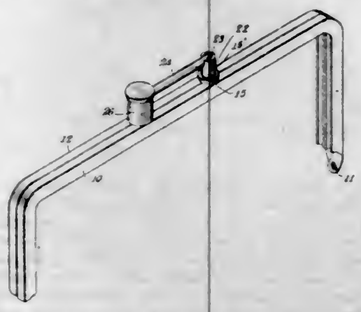
1,677,153. METHOD FOR TREATING SOILS TO PROMOTE PLANT GROWTH. CHARLES H. SPENCER, Los Angeles, Calif. Filed Feb. 11, 1926. Serial No. 87,673. 5 Claims. (Cl. 47—48.)



1. The method for treating soils; which method consists in introducing air to the ground at a point below the surface thereof at a moderate pressure until the adjacent ground is charged with air, storing up a volume of higher pressure air, and suddenly releasing the stored volume of high pressure air into the charged ground at a rate sufficient to cause a visible swelling of the surface thereof.

3. The method for internally disrupting soil; which method consists in providing a source of high pressure air, providing a hole in the ground, admitting air from said source to said hole in successive defined injections; each successive injection admitting the air at a higher volumetric rate.

1,677,154. BAG FASTENER. BERNARD STEMBER, New York, N. Y. Filed Feb. 14, 1928. Serial No. 254,207. 7 Claims. (Cl. 292—228.)



1. A fastening device for a bag having a pair of frame members hinged to each other, said device comprising a spring controlled cap mounted on one frame member and adapted to snap over a lug on the other frame member to close the bag, a rod pivotally connected at one end to said cap, and provided with means at its opposite end to have locking engagement with said frame members.

1,677,155. MILK-BOTTLE CAP. GEORGE L. SWIFT, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed Apr. 20, 1925. Serial No. 24,598. 7 Claims. (Cl. 215—38.)



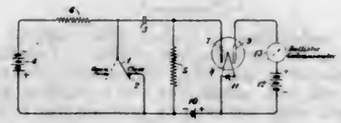
2. A milk bottle cap having ears formed therewith, adapted to be folded beneath the cap when not in use and an order indicating disk pivotally secured to said cap.

1,677,156. APPARATUS FOR BURNING EXPLOSIVE GASEOUS MIXTURES. SIDNEY P. VAUGHN, U. S. Navy, Choctaw County, Miss., assignor to Surface Combustion Company, New York, N. Y., a Corporation of New York. Filed Dec. 23, 1925. Serial No. 77,363. 8 Claims. (Cl. 158—99.)



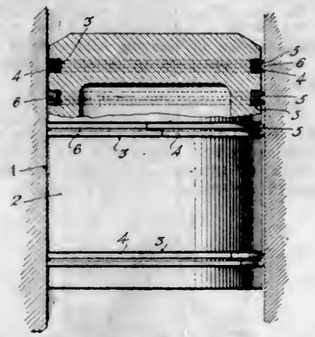
1. In apparatus for burning explosive gaseous mixtures, the combination with a porous and permeable bed of refractory material, of a series of heat-conducting elements in thermal relation with the back of said bed for conducting away therefrom such excess heat as would cause back flash in the mixture supplied to the bed, the passage between said elements being sufficiently free and open to prevent said passage from serving as flame-interrupting passages, and a mixture supply chamber enclosing said elements.

1,677,157. SYSTEM FOR MEASURING CONTACT REBOUNDING. ALLAN WEAVER, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 25, 1925. Serial No. 11,539. 6 Claims. (Cl. 175—183.)



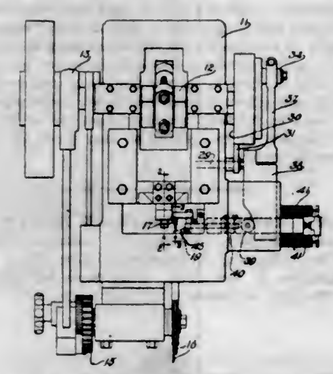
1. As a means for measuring the number of rebounds of contacts, a system comprising a thermionic vacuum tube, a ballistic galvanometer included in the plate circuit of said thermionic vacuum tube, and circuit arrangements whereby each closing of the contacts produces a current impulse in said plate circuit and an opening of the contacts has no effect on said plate circuit.

1,677,158. PACKING RING. JACOB B. WENZEL, Bloom, Colo., assignor to Albert W. Wenzel, Newark, N. J. Filed July 1, 1922. Serial No. 572,251. 1 Claim. (Cl. 74—109.)



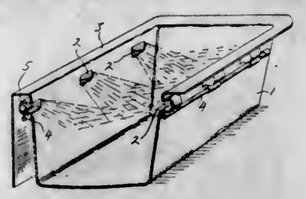
A piston ring which is peripherally and shallowly dished to produce outwardly sloping surfaces terminating in sharp outer edges at the top and bottom of the ring, there being a central groove in the base of the dish with side walls substantially perpendicular to said base, said groove ensuring in the ring when new large storage space from which oil is supplied freely to said sharp outer edges of the ring over the sloping surfaces and providing when the dish is worn away a reduced storage space from which oil is supplied to the substantially cylindrical surface over abrupt right-angular edges to a more restricted extent.

1,677,159. MATERIAL-WORKING MACHINE. BURNS LEE WHITED, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 7, 1924. Serial No. 742,163. 8 Claims. (Cl. 10—25.)



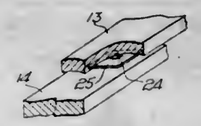
8. In a blank heading apparatus, a multiple heading die, a multiple die block for holding a plurality of blanks in position to be headed thereby, a reciprocating means designed to simultaneously sever the blanks from a plurality of pieces of stock and transfer them to the die block, members carried thereby for retaining the blanks therein during the transfer, said members so mounted as to be independently reciprocable and oscillatable relative to the transfer means, independent resilient means for normally maintaining each of the members in position to retain a blank but permitting a reciprocation thereof relative to the transfer means, and common resilient means for normally maintaining the members against oscillation to cooperate with the independent resilient means to permit the members to oscillate and reciprocate and thereby release the blanks from the transfer means.

1,677,160. BATHTUB. HENRY L. WOOLFENDEN, Detroit, Mich. Filed July 2, 1926. Serial No. 120,122. 5 Claims. (Cl. 4—150.)



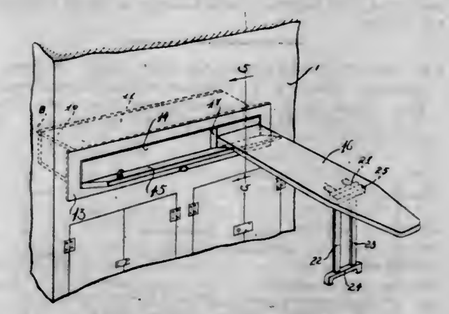
1. The combination with a bath tub having a pocket formed by one of its walls opening into the space between said walls but located exteriorly of said space, said pocket having its top surface formed with grooves extending toward the tub interior, of means for discharging water upon said face, said grooves directing the flow of such water toward the outlet of the pocket.

1,677,161. METHOD OF AND DEVICE FOR ELECTRIC WELDING. ARTHUR HERMAN ADAMS, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 25, 1925. Serial No. 32,612. 5 Claims. (Cl. 219—10.)



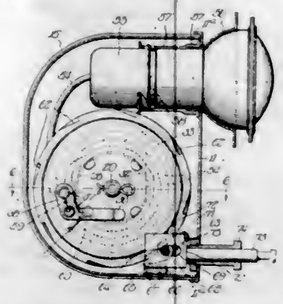
1. In a device for welding two parts, a current localizing member adapted to be placed between the parts to be welded, and a member for attaching the localizing member to one of said parts, said attaching member having a perforation therein to permit contact between the localizing member and one of the parts.

1,677,162. IRONING BOARD AND SUPPORT. CLARA A. ADAMS, Jackson, Mich. Filed Nov. 20, 1926. Serial No. 149,625. 4 Claims. (Cl. 68—10.)



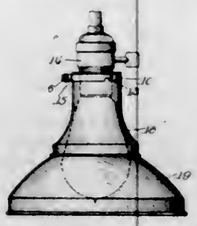
1. A device of the class described comprising a receptacle having an opening in one side thereof; a closure for said opening; an ironing board swingably mounted on said receptacle and adapted for swinging inwardly and outwardly of said receptacle through said opening to an inoperative and an operative position respectively, said closure having a cut away portion to provide an abutment shoulder for engaging one edge of said board and preventing swinging of the same inwardly of said receptacle.

1,677,163. EXTENSION LAMP. ERNST G. APPLETON, ALBERT C. FISCHER, and RAYMOND MOONEY, Chicago, Ill., assignors to Roach-Appleton Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 19, 1923. Serial No. 675,468. 3 Claims. (Cl. 240—8.14.)



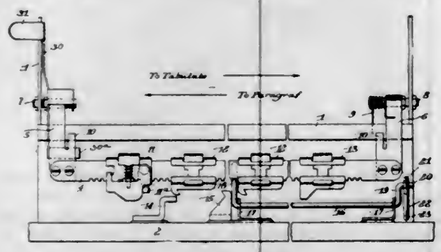
1. In a housing for an electric extension light, a main housing portion having an open side and perforated flanges located adjacent said open side, a removable face plate adapted to close said open side having perforations adapted to register with the flange perforations and having inturned edges on all sides adapted to enclose the flanges and to maintain the parts in registering relation.

1,677,164. ELECTRIC-FIXTURE CLAMP. GEORGE ARAS, Chicago, Ill. Filed June 17, 1926. Serial No. 116,527. 8 Claims. (Cl. 240—129.)



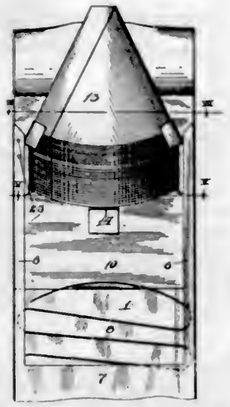
1. A fixture clamp comprising two flexible metal strips secured together at the ends and crossing each other intermediate the ends, a perforated housing through which the strips extend, and fastening means for drawing the connected ends together about a device to which the strips are applied.

1,677,165. TYPEWRITER AND THE LIKE. WALTER E. BARNARD, Ithaca, N. Y., assignor to Barr-Morse Corporation, Ithaca, N. Y., a Corporation of New York. Filed Aug. 4, 1926. Serial No. 127,035. 14 Claims. (Cl. 197—176.)



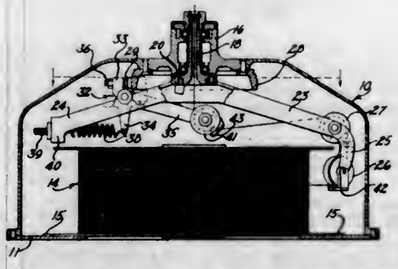
1. In a typewriting machine, a carriage, a stop, a support for said stop shiftable with the carriage during travel of the latter in both directions, and also independently shiftable laterally of such travel to place the stop in different planes of travel with said carriage, relatively stationary stops with one of which the first stop cooperates, depending upon the plane of travel into which it is shifted, a relatively stationary control element disposed along the path of travel of said support and engageable therewith in all positions of the carriage, and key operated means for moving said control element to cause a shift in the path of travel of said first mentioned stop.

1,677,166. CUP DISPENSER. HUGO J. BAUR, Chicago, Ill., assignor to The Vortex Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 18, 1924. Serial No. 744,312. 2 Claims. (Cl. 312—43.)



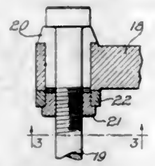
1. A container comprising a front portion, a back portion pivotally secured thereto, said portions being separated at one end to provide a slot through which articles in a stack of articles in the container may be individually removed, spring actuated slidable plates for automatically maintaining an article in position to be removed through said slot, said plates having the upper corners bent to afford a seat to project into the stack of articles, and a bracket secured to the plates to also serve as a seat for the stack of articles.

1,677,167. MATERIAL-UNWINDING DEVICE. SIDNEY ELMER BORGESON, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 30, 1926. Serial No. 138,612. 4 Claims. (Cl. 242—128.)



1. A material unwinding device comprising a housing for enclosing a supply of material, a take-off flier including a rotatable bushing through which material is withdrawn from said housing and a pair of oppositely disposed arms extending transversely from said bushing, material guiding means including a rotatable member carried by one of said arms, and means carried by the other arm for maintaining the material under uniform tension.

1,677,168. MACHINE FRAMEWORK. ALFRED BRUCE BROWN, Caldwell, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Original application filed Apr. 4, 1924, Serial No. 704,149. Divided and this application filed Dec. 7, 1925. Serial No. 73,690. 8 Claims. (Cl. 207—1.)

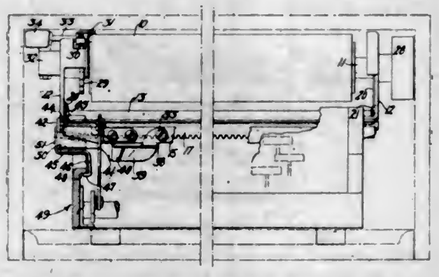


6. In an extruding press framework, a column, a cap having an aperture, and a split sleeve adapted to rigidly support said column in the aperture in said cap.

1,677,169. VULCANIZATION OF RUBBER. ALBERT C. BURRAGE, Jr., Hamilton, Mass., assignor, by mesne assignments, to Albert C. Burrage, Boston, Mass. Filed Feb. 8, 1924. Serial No. 691,466. 8 Claims. (Cl. 18—53.)

2. That process of vulcanizing rubber characterized by heating rubber and a vulcanizing agent such as sulphur with a tri-substituted guanidine containing both phenyl and tolyl substitution radicals.

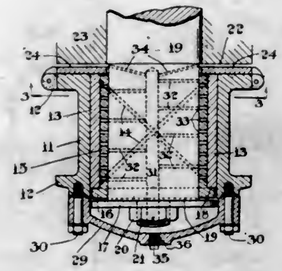
1,677,170. TYPEWRITING MACHINE. GEORGE W. CAMPBELL, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 22, 1922. Serial No. 602,509. 28 Claims. (Cl. 197—193.)



1. In a typewriting machine, a platen, a main frame, a case-shift frame thereon, a platen-carriage movable in letter-feed and return directions on the case-shift frame, and a one-piece normally-ineffective locking device mounted for movement on the case-shift frame and shiftable to engage the main frame for holding the case-shift frame against movement, and to engage the platen-carriage to hold the latter against movement on the case-shift frame.

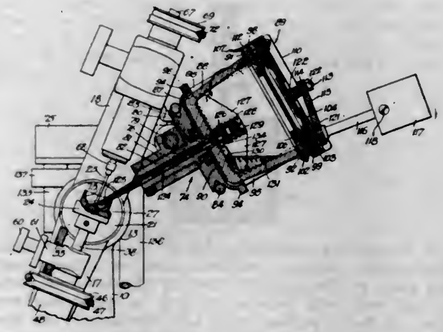
1,677,171. BEARING. WILLIAM F. J. CASEY and GUSTAVE CAVIN, Kingston, Ontario, and CHARLES E. BROOKS, Montreal, Quebec, Canada; said Cavin and said Brooks assignors to said Casey. Filed May 23, 1925. Serial No. 32,373. 4 Claims. (Cl. 308—79.)

1. In an axle bearing for railway equipment, a journal bearing casting, a lubricant reservoir attached to one end of the bearing casting, a bushing rotatably mounted in the bearing, an axle rotatably mounted in said bushing and having limited movement in its longitudinal direction,



said axle having an enlarged end portion positioned within the reservoir and adapted to circulate the lubricant in the reservoir and force said lubricant between the revolving parts of the bearing.

1,677,172. METHOD OF AND APPARATUS FOR WORKING ARTICLES. FREDERICK WILLIAM COLBECK and SIGURD THRONSEN, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 20, 1925. Serial No. 24,357. 6 Claims. (Cl. 51—263.)

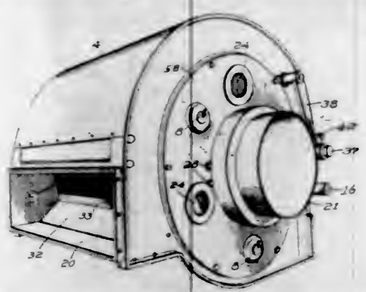


5. In a mechanism for working articles, means for performing work upon an article, a receptacle for containing fluid abrasive material, means for rotating the receptacle around an axis, a conduit having an axis coincident with the axis of rotation of the receptacle for directing the material therefrom to the article being worked, and means controlled by the rotating receptacle for depositing predetermined quantities of the material in the conduit at predetermined intervals and thereafter returning a portion thereof to the receptacle through the conduit and mixing it with the supply contained in the receptacle.

1,677,173. CONDENSER. ROBERT S. CURLEY, Lowell, Mass., assignor, by mesne assignments, to Kitson Machine Shop, a Corporation of Massachusetts. Filed Sept. 26, 1925. Serial No. 58,779. 8 Claims. (Cl. 19—156.)

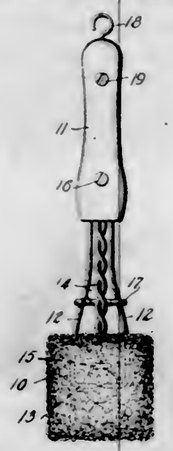
1. In a condenser, the combination of a rotary screen, a casing in which said screen is partly enclosed, said

casing having an inlet opening in one side thereof, a stationary air conduit within said screen arranged to receive the air flowing through the screen and discharge



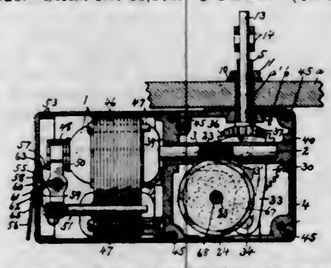
it from the condenser, and stationary dampers between said screen and conduit and between said casing and screen.

1,677,174. SCOURING IMPLEMENT. JOHN D'ALBORA, Yonkers, N. Y. Filed Dec. 27, 1923. Serial No. 682,892. 8 Claims. (Cl. 15—209.)



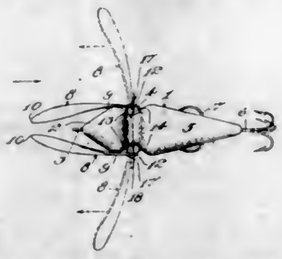
1. A scouring implement comprising a body of scouring material having a reduced compacted portion, scouring pads at the opposite sides of the same, a holder having jaws lying between the pads in engagement with such compacted portion and a post intermediate the jaws having a thrust transmitting engagement with the compacted portion.

1,677,175. MOUNTING FOR WINDSHIELD CLEANERS. ALBERT E. DOMAN, Elbridge, N. Y. Filed May 22, 1925. Serial No. 32,171. 5 Claims. (Cl. 15—253.)



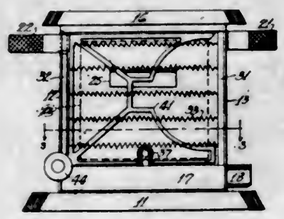
1. In a motor driven windshield cleaner, a flanged plate adapted to be applied to the face of the windshield frame with its flange engaging one of the edges thereof to hold it against turning relatively to the frame, said plate having a vertical slot therein, a gear case having a post adapted to extend through said slot and through an opening in the frame when the cleaner is adjusted for use, means on the front end of the post for engaging the adjacent face of the frame to hold the gear case in engagement with said plate, said gear case having a boss at one side of the axis of the post engaging in the slot of the plate for holding the gear case against turning movement relatively to said plate, a rock shaft extending through the post, a wiper arm actuated by the rock shaft and means for oscillating the rock shaft.

1,677,176. FISH BAIT. JAMES L. DONALY, Newark, N. J. Filed May 28, 1926. Serial No. 112,223. 11 Claims. (Cl. 43—48.)



1. A fish bait having a body, lateral wings at opposite sides of said body non-rotatable with respect thereto and adapted to swing between a laterally projecting position and a forwardly folded position, said wings being transversely shaped so as to tend to move vertically in the water when the bait is drawn forward, means for attaching a line to the front of the body, and means for attaching hooks to said body.

1,677,177. ELECTRIC TOASTER. HARCOURT C. DRAKE, Hempstead, N. Y. Filed Jan. 2, 1926. Serial No. 79,022. 5 Claims. (Cl. 219—19.)

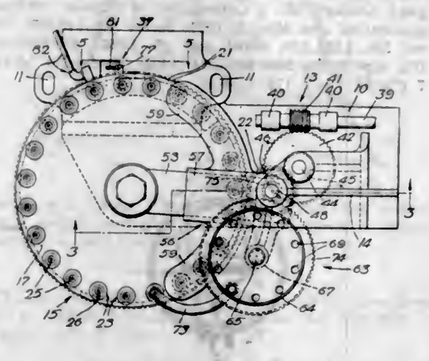


1. In a portable bread toaster as described, the combination of a stand having an electric outlet, an electric heating coil connected with said outlet and a source of illumination, said source connected in multiple circuit with a portion of said coil and arranged to illuminate the surface of the bread being toasted by said coil.

1,677,178. METHOD OF AND APPARATUS FOR ASSEMBLING MEMBERS. JOSEPH WILLIAM FAY, Villa Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 10, 1926. Serial No. 134,746. 10 Claims. (Cl. 29—84.)

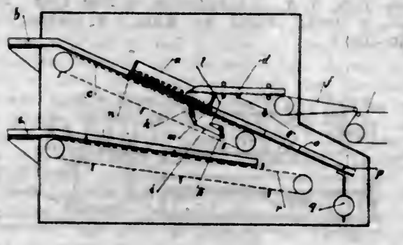
6. In apparatus for assembling apertured spherical members with companion members, means having depressions for supporting apertured spherical members in

engagement with the upper surface of companion members extending into the depressions, means for indexing the supporting means, and means for engaging the upper surface portion of a supported spherical member for rotating the member to cause the registration of the aperture therewith with the companion member.



7. The method of assembling an apertured member with another member, which consists in associating the surface of the apertured member with the other member, changing the relative positions of the members to present various surface portions of the apertured member to the other member, and causing the assemblage of the apertured member on the other member.

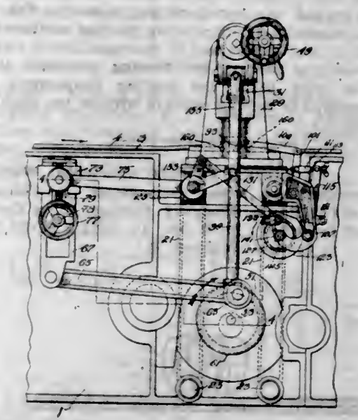
1,677,179. DEVICE FOR DISCHARGING PRALINE CORES FROM THE POWDERING BOX. CARL GÖPEL, Halle-on-the-Saale, Germany. Filed Aug. 7, 1926, Serial No. 127,930, and in Germany Sept. 4, 1925. 2 Claims. (Cl. 107—3.)



1. A device for discharging praline cores from the mold box, comprising an inclined guideway for the box, an endless travelling band for conveying the box down the guideway, a sifting scoop arranged in the path of the box so as to scoop the praline cores out of the latter, means for lifting the front end of the scoop so as to clear the edges of the box, means for shaking the scoop so as to return the molding powder to the box and feed the praline cores along the scoop, and a conveyer band arranged so as to receive the praline cores from the scoop.

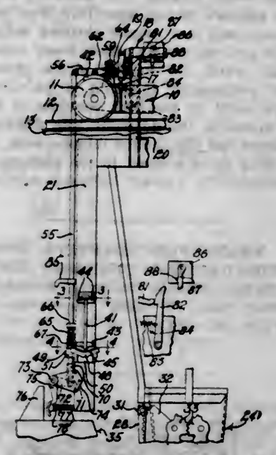
1,677,180. CUTTER MECHANISM FOR PLASTIC MATERIAL. THOMAS L. GREEN and CHARLES H. WILLIAMS, Indianapolis, Ind., assignors to said Thomas L. Green, Indianapolis, Ind. Filed Apr. 13, 1926. Serial No. 101,636. 19 Claims. (Cl. 107—21.)

1. In a machine of the character described, the combination of an apron for receiving and feeding plastic material, a reciprocatory cutter, means for automatically reciprocating the cutter to cause the same to move toward, but not to the material at intervals, and means



including a rocker member beneath the apron for automatically periodically raising the apron and the material thereon toward the cutter that the latter may cut through the material.

1,677,181. MATERIAL-HANDLING APPARATUS. HANS HENRIK CHRISTIAN GRONDAHL, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 31, 1926. Serial No. 126,166. 12 Claims. (Cl. 188—74.)

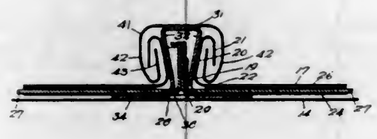


1. In an apparatus for handling material, a traveling carriage, manually operable means carried by the carriage for moving the latter in either direction, a brake mechanism operatively connected to the means and normally in braking relationship with the carriage, and means controlled by the movement of the manually operable means in either direction for automatically rendering the brake mechanism ineffective.

1,677,182. METHOD OF MANUFACTURING CEMENTS RICH IN ALUMINA. ALEXANDER HASSELBACH, Dessau, Germany, assignor to G. Polysius, Dessau, Germany, a Partnership. Filed Sept. 27, 1924, Serial No. 740,395, and in Germany Feb. 19, 1924. 2 Claims. (Cl. 106—25.)

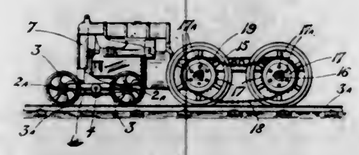
1. The method of manufacturing cements rich in aluminium, consisting in introducing the raw mixture together with a small percentage of fluor-spar into a rotary kiln and carrying through the burning procedure at a temperature lying below the melting temperature at present employed in making cements without the addition of fluor-spar.

1,677,183. CAR ROOF. FRANCIS A. JACOBS, Warren, Ohio, assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 14, 1924. Serial No. 743,520. 19 Claims. (Cl. 108—5.)



1. In a car roof, in combination: roof sheathing, a flashing secured on said sheathing, roof sheets disposed on opposite sides of the ridge of the roof, said sheets having side flanges extending from the ridge to a point short of the eaves edge of the roof, the eaves edges of said sheets terminating in a return underbent portion spaced from the main body of the sheet, a locking strip positioned in the space defined by said return underbent portion of the sheet and projecting upwardly between the edges of adjacent sheets, anchors secured at the eaves edges of the roof between the sides of adjacent roof sheets, said anchors having upwardly bent portions providing a space, said last named portions being connected by a top web and cut away at their lower ends to provide slots through which the locking strips extend, the upwardly bent portions of the said strips terminating in the space provided by the bent portions of the anchors, seam caps enclosing the adjacent side flanges and adjacent roof sheets and the anchor therebetween, and a flashing and holding piece secured to the anchors and having a portion adapted to prevent outward movement of the seam caps.

1,677,184. MEANS FOR ADAPTING MOTOR TRACTORS FOR HAULING PURPOSES ON RAIL OR TRAM LINES. ROBERT JOUGHIN, Waikino, New Zealand. Filed Nov. 20, 1925. Serial No. 70,351. 6 Claims. (Cl. 105—62.)



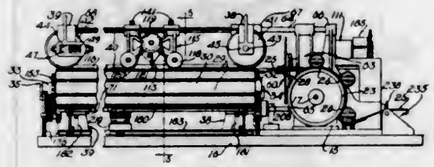
1. Improved means for adapting a motor tractor for haulage purposes on rail or tram lines, comprising the application of fore and rear trucks to the frame of the tractor, the said trucks having four flanged track wheels attached thereto, and means for operating all rear truck wheels to propel the tractor.

1,677,185. RECEIVER. WILLIAM KAISLING, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Original application filed Mar. 3, 1921, Serial No. 449,396. Patent No. 1,551,310, dated Aug. 25, 1925. Divided and this application filed Mar. 14, 1925. Serial No. 15,440. 7 Claims. (Cl. 179—156.)



1. In a receiver of the character described including a casing, a permanent magnet, a pivot member secured to said casing, means for securing said permanent magnet to said pivot member, a head band, a clip member having integrally formed extensions adapted to encompass the ends of said head band, and a U-shaped spring member pivotally secured to said clip member for engaging said pivot member to pivotally secure said head band by means of said clip on said casing.

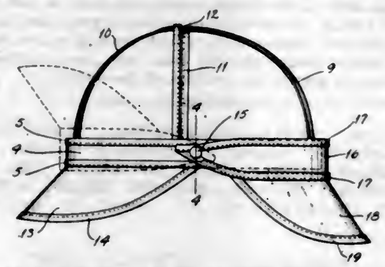
1,677,186. STRAND-WORKING MECHANISM. FREDERIC SHIELDS KOCHENDORFER, River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 4, 1925. Serial No. 6,912. 8 Claims. (Cl. 140—140.)



1. In an apparatus for severing a strand into lengths, a guideway, a continuously moving belt for moving the strand along said guideway, a strand severing mechanism, means adjustably positioned along the guideway and actuated by the moving strand for controlling the operation of said severing mechanism, and means for moving the guideway to discharge the severed strand therefrom.

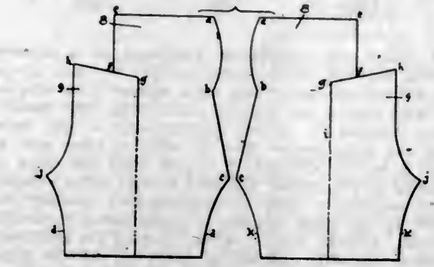
1,677,187. SUN VISOR. SHANE ETHEL LEIBSON, St. Louis, Mo. Filed Mar. 9, 1927. Serial No. 173,866. 1 Claim. (Cl. 2—10.)

A sun visor comprising a head encircling band, a plurality of members having their ends secured to said band at diametrically opposite points so that said bands will cross each other and limit the downward movement of said head band, a visor secured to said band, a second band of less length than said first mentioned band, a visor secured to said second mentioned band, and fasteing devices carried by said first mentioned band and the ends of the second mentioned band for detachably



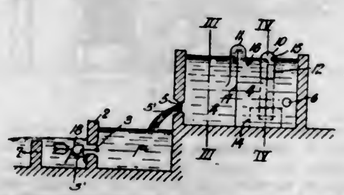
securing said bands together whereby the visor carried by the second mentioned band can be secured in various positions on said first mentioned band.

1,677,188. GARMENT. ISADORE L. LESAVOY, New York, N. Y. Filed July 22, 1924. Serial No. 727,509. 1 Claim. (Cl. 2—78.)



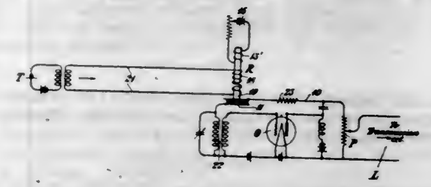
A garment consisting of two sections of material that are substantially duplicates and each of which has its forward edge composed of upper, lower and intermediate portions, and its rear edge also composed of upper, lower and intermediate portions, the front edges of said sections being joined to one another at their upper and intermediate portions and the rear edges thereof being united at their intermediate portions, and the lower front edge portion of each section being joined to the rear edge portion of said section to form legs for the garment, the intermediate rear edge portions of each section being of greater length than the intermediate front edge portions thereof, and each intermediate portion being of greater width than the upper portion, and the two portions being partially separated along an approximately vertical line and along a diagonal line extending upwardly and rearwardly from said vertical line, said diagonal line forming the upper edge of said intermediate portion.

1,677,189. METER FOR FLUIDS. EDWARD SEARLES LINDLEY, Lahore, India. Filed Jan. 19, 1925, Serial No. 3,290, and in India Jan. 21, 1924. 5 Claims. (Cl. 73—51.)



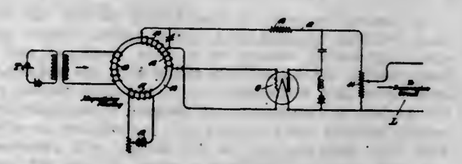
1. Apparatus for rating a meter comprising a tank, a second tank having an orifice in one side thereof, means for altering the effective cross sectional area of said orifice to vary the amount of liquid passing from the second tank to the first through said orifice, a trough having a passage communicating with the first tank in which trough the meter to be rated is adapted to be supported adjacent said passage, and means for maintaining the liquid level in said trough above the level of the passage.

1,677,190. MODULATING ARRANGEMENT. OWEN H. LOYNES, Woodridge, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 26, 1923. Serial No. 641,705. 1 Claim. (Cl. 179—171.)



A modulating arrangement comprising a vacuum tube oscillator having a feed-back connection between its plate and grid circuits, and means for modulating the oscillations generated by said oscillator, said means comprising a mechanical repeater having a varible resistance element included in the feed-back circuit so that all of the current transmitted through said feed-back circuit flows through said resistance element, an operating winding energized by modulating currents to vary said resistance element and a magnetizing winding energized by a direct current source.

1,677,191. MODULATING ARRANGEMENT. OWEN H. LOYNES, Woodridge, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 26, 1923. Serial No. 641,708. 3 Claims. (Cl. 179—171.)

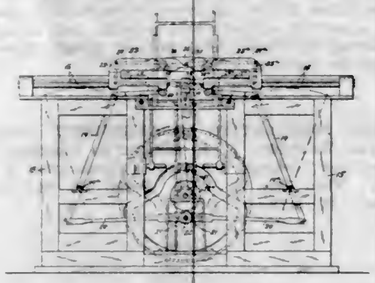


1. A modulating arrangement comprising a vacuum tube oscillator for supplying the carrier currents, a magnetic feed-back coupling for said oscillator including an iron core and means to vary said magnetic coupling in accordance with modulating currents to correspondingly change the frequency of said oscillator.

1,677,192. LOOM. JONATHAN LUCAS, Savannah, Ga., assignor to Lucas-Lamborn Loom Corporation, New York, N. Y., a Corporation of New York. Original application filed May 7, 1924, Serial No. 711,581. Divided and this application filed Feb. 15, 1927. Serial No. 168,256. 4 Claims. (Cl. 139—141.)

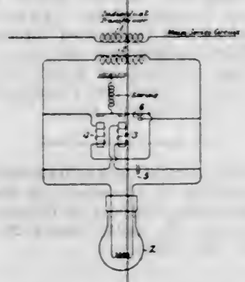
1. A loom comprising a stationary support, a travelling shuttle, guiding devices on said support extending over the operative paths of said shuttle, a pair of carriers arranged to be inversely reciprocated upon said guiding devices for passing said shuttle over said operative paths, a pivoted lever on said shuttle constituting a locking latch, hooks fixed upon said carriers, tripping devices mounted upon said carriers, and mech-

anism independent of said carriers for actuating the tripping devices of said carriers in alternate sequence whereby said lever is rocked, at a predetermined point



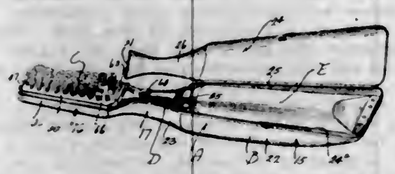
in the operative paths of said shuttle to connect it with one of said hooks and simultaneously disconnect it from the other hook.

1,677,193. SHORT-CIRCUITING SWITCH. RALPH G. MCCURDY, Englewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 2, 1927. Serial No. 217,279. 1 Claim. (Cl. 175—374.)



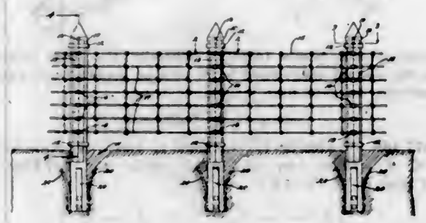
In association with a transformer having its primary winding included in a series lighting circuit carrying alternating current of a given frequency and a lamp having its filament in series with the secondary winding of said transformer, an alternating current relay having an operating coil bridged across said secondary winding and a holding coil, a condenser in series with said operating coil in the bridge, said condenser and said operating coil being tuned to one odd harmonic of the lighting current frequency, and a contact adapted to close when said operating coil is energized and to place a short-circuit around the secondary winding of the transformer through said holding coil.

1,677,194. TOOTHBRUSH. ARNULFO MENDOZA, North Bergen, N. J. Filed July 2, 1926. Serial No. 120,184. 5 Claims. (Cl. 15—135.)



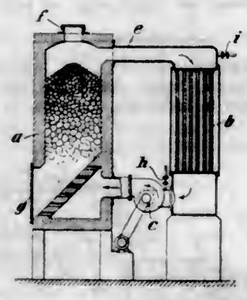
1. In a fountain toothbrush the combination of a brush head including a body portion having upstanding bristles thereon, said body portion having an elongated duct therethrough discharging onto said bristles, a rotatable detachable tube in said duct having a port adapted to be rotated into registration with the port of the body of the brush head, said body of the brush head having a transverse slot thereacross communicating with the tube, and a radially extending pin handle detachably connected with the tube and movable in the slot to permit the rotation of the tube.

1,677,195. FENCE CONSTRUCTION. HUGO MILLER, Colby, Wis., assignor of one-fourth to (Mrs.) Ida Steinert and one-fourth to Emil Meyers, Colby, Wis. Filed Apr. 14, 1924. Serial No. 706,454. 1 Claim. (Cl. 256—52.)



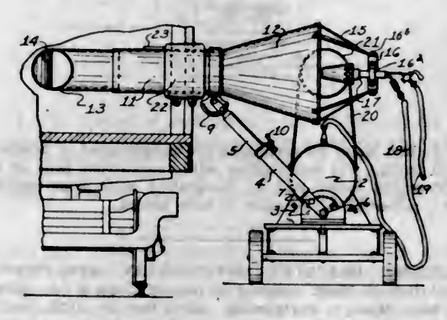
A fence post attachment consisting of a member having two side pieces joined together to form an angle, the end portions of said angle member being adapted to bear against an ordinary fence post, said member being adapted to extend longitudinally of the fence post and being shorter than an ordinary fence post, so that it can be attached to a post after the latter is inserted in the ground, and said member being provided with rectangular slots of approximately one-half the depth of the angle member to accommodate horisontal strands of fence wire, a vertical locking rod positioned between the outer surface of the post and the inner surface of the angle member and exteriorly of and engaging the portions of the horizontal fence strands which enter said slots to removably secure the fencing to the posts, said slots readily accommodating both the fence strand and the locking rod, and means for attaching said angle member to on ordinary fence post, the said member being readily attachable to a fence post of any size or shape.

1,677,196. APPARATUS FOR COOLING INCANDESCENT COKE. ARNOLD MORTTELI, Oberwinterthur, Switzerland, assignor, by mesne assignments, to Dry Quenching Equipment Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 7, 1925, Serial No. 7,519, and in Switzerland Apr. 19, 1924. 4 Claims. (Cl. 202—11.)



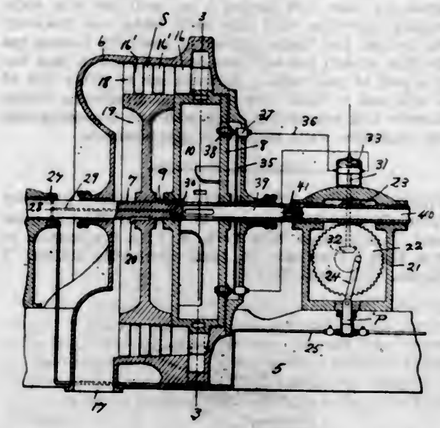
1. Apparatus for cooling incandescent coke comprising a container for the coke, a heat exchanging device connected thereto to form a closed circuit, means for circulating an inert gas in said closed circuit through the coke container and the heat exchanging device, and a valved air inlet adapted to admit a small quantity of fresh air to said closed circuit to cause consumption of any combustible gases given off in the container by insufficiently distilled coke and thereby prevent the formation of an explosive mixture when air is suddenly admitted to the container as by introduction of coke to the container or withdrawal of coke from the container.

1,677,197. PORTABLE DRIER. HARRY E. MYERS, Buffalo, N. Y. Filed Oct. 16, 1926. Serial No. 142,041. 10 Claims. (Cl. 34—18.)



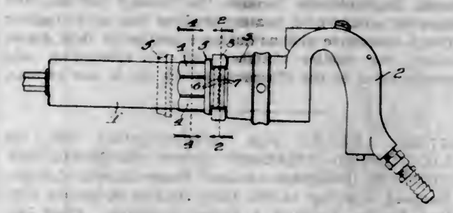
1. A portable drier or heater comprising a wheeled truck, a fuel tank mounted thereon, a pipe adjustably mounted on said truck and adapted to have its discharge end inserted into a car body, a burner adjacent the other end of said pipe and connected with said tank adapted to project a flame into said pipe to create a flow of heated air through said pipe.

1,677,198. INTERNAL-COMBUSTION TURBINE. ELLIS WOOD NAILEIGH, Eureka, Calif. Filed Sept. 27, 1926. Serial No. 137,951. 1 Claim. (Cl. 60—42.)



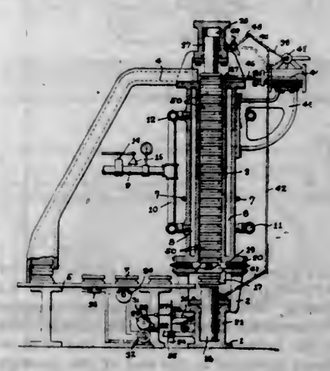
An internal combustion and steam turbine of the class described including, in combination, a stator casing, a hollow shaft journaled through the casing, a hollow rotor fixed to the shaft, the interior of the hollow rotor forming a combustion chamber, said hollow shaft being provided with openings leading into the combustion chamber, a check valve in the hollow shaft, so that combustible fuel may move in one direction to the shaft toward said opening, said stator casing being provided with pockets curved to reverse the gases impinged thereagainst, the rim of said rotor being provided with nozzles for impinging exploded gases against the pockets, means for igniting the explosive mixture in the combustion chamber, the rim of said rotor being provided between the nozzles with vanes curved transversely for reversing gases impinged thereagainst, a plurality of stationary vanes in the stator casing, a wheel fixed to the shaft and having transversely curved vanes to receive gases from the vanes of the rotor and to be directed against the second mentioned vanes of the casing, fins in the combustion chamber for agitating the explosive mixture and to be heated thereby when ignited, and means for injecting water into the combustion chamber to be generated into steam by the fins therein and agitated and mixed with the explosive mixture.

1,677,199. HANDLE LOCK FOR PNEUMATIC TOOLS. JOHN T. NELSON, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a Corporation of Delaware. Filed Jan. 14, 1925. Serial No. 2,369. 5 Claims. (Cl. 121—36.)



1. The combination with two members having screw-threaded connection, of means for locking said members against turning relatively to each other, comprising a polygonal shaped portion on one member, a collar having a complementary bore to fit said polygonal portion, said collar and the other member having engaging teeth about the same, and a clip having flanges engaging grooves in said collar and the last named member for holding the collar engaged therewith.

1,677,200. VULCANIZING APPARATUS. CLIFFORD H. OAKLEY, Trenton, N. J. Filed July 13, 1921. Serial No. 484,292. 14 Claims. (Cl. 18—17.)



1. In a vulcanizing apparatus having a heating zone for applying a vulcanizing heat, the combination with means for supporting a series of molds with some of the

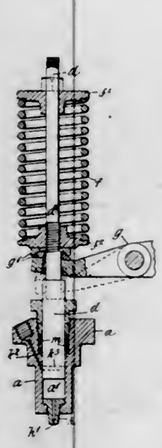
molds within the heating zone comprising guides frictionally engaging the molds with yielding pressure, of means for moving the molds forward along said guides and means for maintaining pressure against the end mold of the series while adding a fresh mold to the series.

1,677,201. APPARATUS FOR CONTINUOUS TREATMENT OF WORK UNDER PRESSURE. CLIFFORD H. OAKLEY, Trenton, N. J. Filed Sept. 11, 1923. Serial No. 662,067. 23 Claims. (Cl. 18—17.)



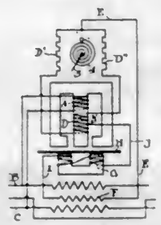
1. In apparatus of the character described a tubular heating chamber, a series of molds movable therethrough, a series of pistons movable with said molds and arranged to form substantially fluid tight joints with the walls of the tubular chamber, means for forcing said molds and pistons longitudinally through the tubular chamber, and means for admitting a heating medium into said chamber between successive pistons during a portion of their travel through the tubular chamber and for exhausting said pressure prior to the discharge of the molds and pistons.

1,677,202. MEANS FOR INTRODUCING OIL OR LIQUID-FUEL CHARGES INTO INTERNAL-COMBUSTION ENGINES. SIMON DOKK OLSEN, London, England, assignor to The Olsen Engine Syndicate Limited, London, England, a British Company. Filed Jan. 30, 1923, Serial No. 615,921, and in Germany Dec. 27, 1922. 1 Claim. (Cl. 123—33.)



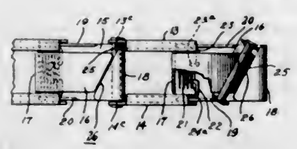
A liquid-fuel injecting arrangement of the kind referred to, in which the charge is formed and injected by a single plunger, working independently in a super-compression chamber (a^1) mounted directly on the cylinder, the connection with the cylinder being through one or more very short and direct passages in the end of the chamber (a^1) and the liquid fuel being fed under high pressure into an annular channel (k^2) surrounding the plunger so as to form a film on the surface of the hot cylinder which is easily and instantly vaporized, substantially as described.

1,677,203. METER FOR COMBINING THE MEASUREMENT OF DEMAND AND ENERGY. LOUIS A. PAINE, Toronto, Ontario, Canada, assignor to The Lincoln Meter Company Limited, Toronto, Canada. Filed Feb. 3, 1927. Serial No. 165,630. 5 Claims. (Cl. 171—34.)



1. In a meter for combining the measurement of demand and energy, the combination with the current coils of a differential meter and an integrating watt hour meter, of a potential coil common to both meters.

1,677,204. BRACELET CONSTRUCTION. AXEL PERSON, Attleboro, Mass., assignor to Harvey Clapp & Co., Attleboro, Mass., a Partnership. Filed Dec. 30, 1926, Serial No. 157,909. Renewed Nov. 30, 1927. 14 Claims. (Cl. 59—79.)



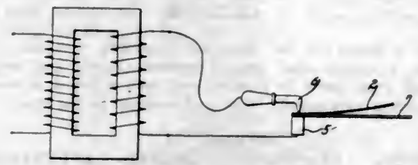
1. A bracelet comprising a plurality of bracelet units connected together, each of said units including, in combination, an outer link having a top wall and side walls depending therefrom, said side walls being bent inwardly at the bottom and thence extending upwardly toward the under side of said top wall and forming beneath said top wall a pair of longitudinal channels one at either side of said link, and an inner link slidable longitudinally within said outer link and having a top wall and depending side walls, said side walls resting in said channels.

1,677,205. DEVICE FOR WELDING PARTS. EMERSON PUGH, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 25, 1925. Serial No. 32,602. 7 Claims. (Cl. 219—10.)



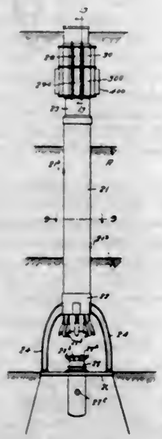
7. A device for localizing the path of an electrical current between two parts during the welding thereof comprising an element having intersecting slits, and the portion lying between the slits formed into a projection.

1,677,206. METHOD OF ELECTRIC WELDING. EMERSON PUGH, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 17, 1926. Serial No. 102,650. 2 Claims. (Cl. 219—10.)



2. The method of welding gold foil, which consists of applying a thin layer of graphite to a metallic electrode, positioning the foil and the electrode in electrically conducting relation separated by the layer of graphite, and passing a current through the electrode and the foil.

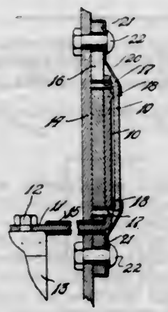
1,677,207. CONTINUOUS VULCANIZER. CARL E. RETT, Akron, Ohio, assignor to Clifford H. Oakley, Trenton, N. J. Filed Jan. 29, 1921, Serial No. 440,886. Renewed Oct. 8, 1921, and renewed Feb. 14, 1923, Serial No. 506,489. 36 Claims. (Cl. 18—6.)



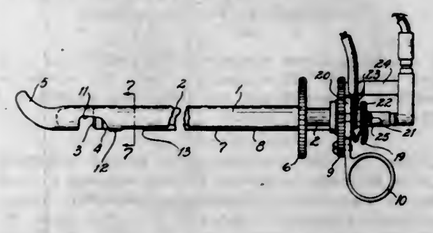
1. The combination of a heating chamber adapted to receive a line or stack of articles to be heated, means to force said articles progressively through the chamber, means to supply a fluid heating medium into the chamber, and means carried with said articles to seal opposite ends of the chamber while said articles are being forced therethrough.

1,677,208. DASHBOARD-TYPE HEAT INDICATOR. WILLIAM L. ROHRER, New York, N. Y. Filed Oct. 25, 1926. Serial No. 143,950. 1 Claim. (Cl. 116—114.)

In a dashboard temperature indicator for internal combustion engines, a base plate, a heat-conducting member having ridges formed thereon, heat responsive paint on the member and between the ridges, a transparent plate engaging said ridges, and a cover housing the said transparent plate, said cover supporting the transparent plate in engaged relation with the ridges of the heat-conducting member.

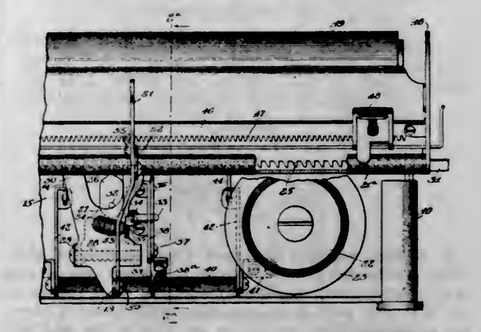


1,677,209. SURGICAL INSTRUMENT. DALTON K. ROSE, St. Louis, Mo., assignor to Joseph H. Zumbalen, St. Louis, Mo. Filed Apr. 21, 1926. Serial No. 103,415. 7 Claims. (Cl. 178—89.)



1. A surgical instrument comprising a support, a cutting tool thereon, an electric heating element adjacent to said cutting tool whereby it may be moved into engagement with the wound by slight continued movement of said cutting tool support after operating said tool and a source of electric current for said heating element, whereby a cut made by the cutting tool may immediately be cauterized.

1,677,210. TYPEWRITING MACHINE. GEORGE F. ROSE, Hyndsville, N. Y. Filed Dec. 6, 1921. Serial No. 520,419. 9 Claims. (Cl. 197—193.)



1. A typewriting machine comprising a frame, a work carrage, mechanism for moving said carriage on the frame to feed the work, a cover for the machine, and a locking device on said frame actuated automati-

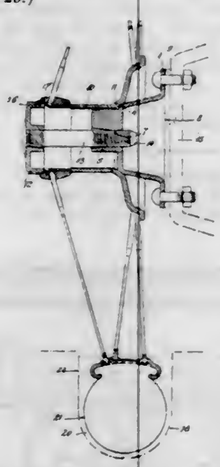
cally by the application of said cover for locking said carriage in any of its substantially central positions to protect the same and said mechanism during movement of the machine.

1,677,211. TOILET-SEAT PROTECTOR. NATHANIEL C. ROSS, Fort Wayne, Ind. Filed July 16, 1927. Serial No. 206,362. 3 Claims. (Cl. 4—245.)



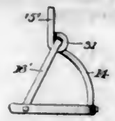
1. A seat protector consisting of a plurality of overlapped sheets of paper narrower than the sheets secured to a strip of paper, the strip being secured to a portion of each sheet only.

1,677,212. FIXED SUPPORT FOR SPARE WHEELS. LOUIS ROUANET, Ivry-Port, France, assignor to Compagnie d'Applications Mecaniques, Ivry-Port, France, a French Company. Filed July 28, 1926, Serial No. 125,505, and in France Aug. 22, 1925. 4 Claims. (Cl. 224—29.)



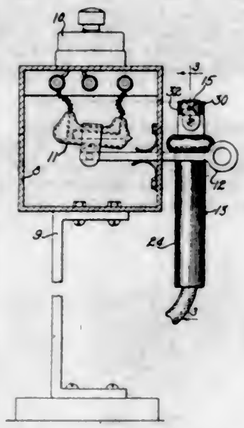
1. A fixed support for spare wheel, having a truncated conical part for centering the wheel and a rest part, characterized by the fact that the cross section of the said rest part is an arc of a circle situated above the horizontal plane containing the axis of the said support and of which the angle subtended at the center is less than 180 degrees, so as to enable the said rest part to be formed with a substantial axial length while permitting the use of the support on a vehicle of the type having a cup shaped receiving member for the wheel.

1,677,213. BABY WALKER. OTTO CHARLES SANGER, Hazen, N. Dak. Filed Nov. 19, 1925. Serial No. 70,172. 2 Claims. (Cl. 155—24.)



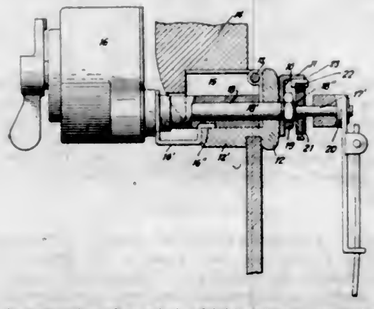
2. A device of the character described comprising a base, a spring steel upright secured thereto and being coiled upon itself to form a loop, and a brace member extending through the loop and secured to the base.

1,677,214. ELECTRICALLY-HEATED APPARATUS. ARTHUR EDWIN SANTSCHI, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 19, 1926. Serial No. 123,423. 6 Claims. (Cl. 219—26.)



1. In an electrically heated apparatus, an electric circuit, an element of high resistance material in said circuit, and means to allow a large initial current to heat said element and reduce the current when the element is sufficiently heated to retain it at the proper temperature.

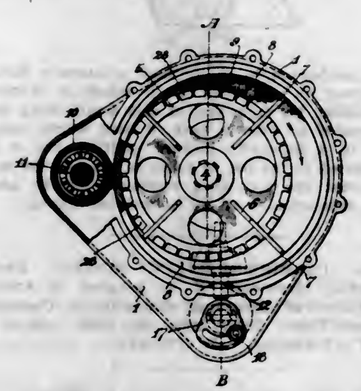
1,677,215. MOUNTING FOR WINDSHIELD WIPERS. GORDON B. SAYRE, Syracuse, N. Y., assignor to Owen-Dyneto Corporation, Syracuse, N. Y., a Corporation of New York. Filed Jan. 23, 1926. Serial No. 83,263. 13 Claims. (Cl. 15—253.)



1. A mounting for wind shield wipers comprising an elongated body portion shaped to fit against the outer face of a wind shield sash, such body being perforated

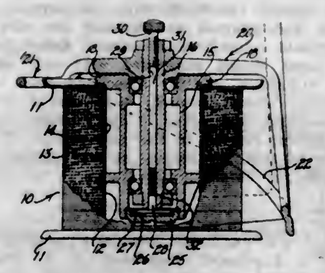
near one end to receive a driving shaft, clamping means on said body near the other end and engaging the upper and lower edge portions of the sash to support said body, and means supported on said body for driving a plurality of wiping elements.

1,677,216. ROTARY COMPRESSOR. PAUL SCHAUER, Zehlendorf, near Berlin, Germany. Filed Oct. 19, 1926, Serial No. 142,677, and in Germany Nov. 9, 1925. 12 Claims. (Cl. 230—152.)



1. A rotary compressor comprising an outer stationary casing; a power-driven shaft journalled in said casing; a rotor mounted on said shaft; an inner cylindrical casing surrounding said rotor and adapted to rotate therewith; a plate for closing the cylindrical casing at one end thereof and adapted to rotate therewith; and a roller in the stationary casing for exerting an axial pressure on the plate thereby causing the plate to contact with the cylindrical casing and one end of the rotor and causing the cylindrical casing and the other end of the rotor to be held in contact with the outer stationary casing.

1,677,217. MATERIAL-UNWINDING DEVICE. JOHN NILSEN SELVIG, Chicago, Ill., assignor to Western Electric Company Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 21, 1926. Serial No. 136,754. 5 Claims. (Cl. 242—128.)



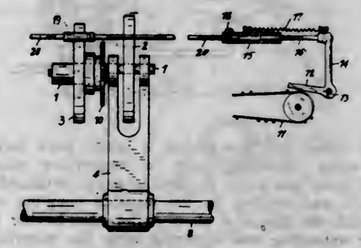
1. A strand unwinding device comprising a member rotatably carried by a supply spool and rotated by the strand being withdrawn therefrom, said member having strand engaging cam portions extending diagonally across the core of the spool and designed so that the strand is withdrawn from the spool substantially at right angles to the axis thereof at all times.

1,677,218. BED. GEORGE SHAND, St. James, Minn. Filed Apr. 28, 1926. Serial No. 105,180. 1 Claim. (Cl. 5—61.)



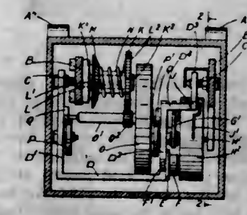
A bed bottom embodying a frame comprising head, foot and side rails, angle plates pivotally mounted on the head and foot rails, a mattress supporting spring spanning said plates, guides carried by the head and foot rails, arcuate toothed rack bars pivotally connected with said plates and movable through said guides, a hand bar having a mounting on said side rail to permit rocking and longitudinal movement of said hand bar, and operative connections between said hand bar and the arcuate rack bars.

1,677,219. STOCKING FRAME. HUGO SUSSMANN, Chemnitz, Germany. Filed July 12, 1926, Serial No. 121,984, and in Germany June 8, 1926. 1 Claim. (Cl. 66—82.)



In a mesh-regulating device for stocking frames, the combination with the main shaft and with a lever for operating the needle bar, of two cams mounted on said main shaft, axially adjustable rollers held by said lever for cooperation with the cams, the rollers being spaced differently from the cams so that axial adjustment is required for throwing each roller into engagement with its cam, means whereby such adjustment of the rollers can be effected automatically by the machine, and a shaft having an eccentric portion whereon one of said rollers is so supported on the lever that its position can be regulated by a rotary adjustment of said latter shaft.

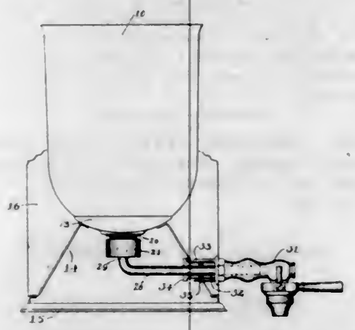
1,677,220. GRADIENT METER. ROBERT AERNOUT, BARON VAN LYNDEN, London, England. Filed Feb. 10, 1927, Serial No. 167,243, and in Great Britain Feb. 23, 1926. 15 Claims. (Cl. 33—220.)



1. In a gradient meter mounted on a moving body, the combination of a gravity-actuated member, an indicator operatively connected to the gravity actuated

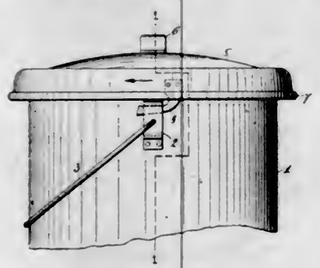
member, a shaft mounted coaxially with respect to the axis about which the gravity-actuated member moves, mechanism for rotating this shaft at a speed proportional to that of the moving body, a driven shaft carried wholly by and swinging with the gravity-actuated member, transmission gearing connecting these two shafts, and a weighted wheel operatively connected to the driven shaft so that its speed is proportional to the speed of such shaft.

1,677,221. COFFEE URN. LEO WERTHEIMER, Buffalo, N. Y., assignor, by mesne assignments, to Amcoin Coffee System Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed Aug. 13, 1924. Serial No. 731,764. 4 Claims. (Cl. 53—3.)



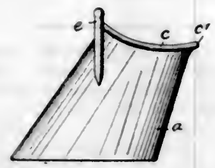
1. A coffee urn comprising a glass liner having a downwardly extending neck, a supporting plate arranged below the liner, a coupling flange arranged about the neck and secured to the plate, a coupling engageable with the flange, a glass outlet pipe having an upwardly extending end engaging with the coupling, and gaskets carried by the coupling for sealing the neck of the liner and the outlet pipe.

1,677,222. PAIL. HORACE E. WHITNEY, Cambridge, Mass., assignor to Dover Stamping & Manufacturing Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Dec. 26, 1924. Serial No. 757,984. 1 Claim. (Cl. 220—58.)



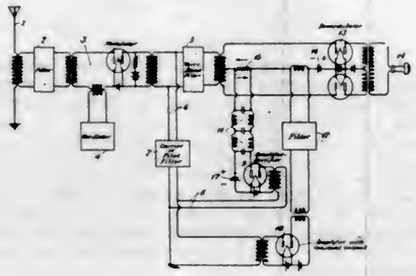
A metallic vessel having vertically disposed, sheet metal, perforated, looped straps or ears formed separate therefrom and permanently attached to the outside thereof near its top, said vessel having a cover provided with depending hooks adapted to be entered beneath the upper parts of said looped straps or ears, and said vessel having also a bail having bent ends inserted through the holes in said perforated straps or ears, said cover having a depending peripheral flange of much greater diameter than the top of said vessel and to the inside of which said hooks are attached so as not to extend outward beyond said cover.

1,677,223. CHAMBER POT. AUGUSTE WITTIG, Eckernforde, Germany. Filed Nov. 6, 1926, Serial No. 146,798, and in Germany Nov. 9, 1925. 2 Claims. (Cl. 4—141.)



1. A chamber-pot in the form of a laterally flattened ewer having an elongated mouth which is contracted in the middle, the front end of said mouth being raised and extended to form a beak, a base which supports the pot in a forwardly inclined position, and a handle connected to the pot so as to be clear of the mouth and so that the pot, when suspended on the handle, remains substantially at its normal inclination.

1,677,224. CARRIER-RECEIVING SYSTEM. HERMAN A. AFFEL, Maplewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 23, 1926. Serial No. 96,887. 3 Claims. (Cl. 178—44.)

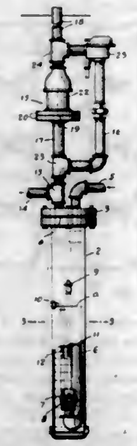


1. The combination of a carrier transmitting station wherein the carrier frequency is only partially suppressed and a carrier receiving station comprising a modulator for reducing the frequency of the incoming signal wave, a selective circuit associated with the output of said modulator and adapted to transmit the side band component of said reduced signal wave, a second selective circuit associated with the output of said modulator and adapted to transmit the carrier component of said reduced signal wave, a demodulator having its input circuit associated with said side band selective circuit, a rectifier associated with said second selective circuit whereby said carrier component may be rectified, and means to apply said rectified carrier component current to the grid circuit of said demodulator so that the voltage of said rectified current will oppose the normal grid voltage.

1,677,225. PROTECTION OF ACETYLENE LINES. JAMES L. ANDERSON, Englewood, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 24, 1924. Serial No. 739,472. 4 Claims. (Cl. 48—192.)

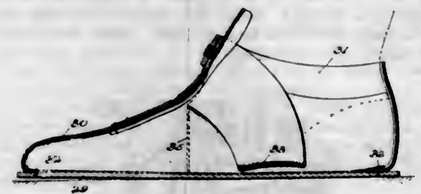
1. A safety apparatus for acetylene gas lines comprising in combination with the line, a water-seal having a gas inlet and an outlet chamber, and a superstructure in free communication with the outlet chamber of the water-seal, said superstructure comprising two normally-closed branches in parallel by one or both of which

excess pressure may open an escape to atmosphere, one of said branches containing a loaded mechanical relief valve adapted to open at a pressure somewhat



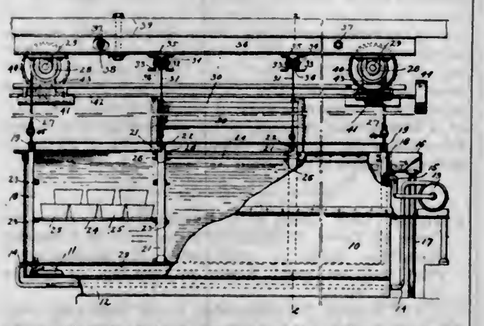
above the normal of the line connected with said outlet chamber, and the other branch being closed by a frangible disk calculated to yield to excessive pressure.

1,677,226. SHOE. MARK BEAL BANKS, Knoxville, Tenn. Filed Mar. 7, 1927. Serial No. 173,533. 10 Claims. (Cl. 36—71.)



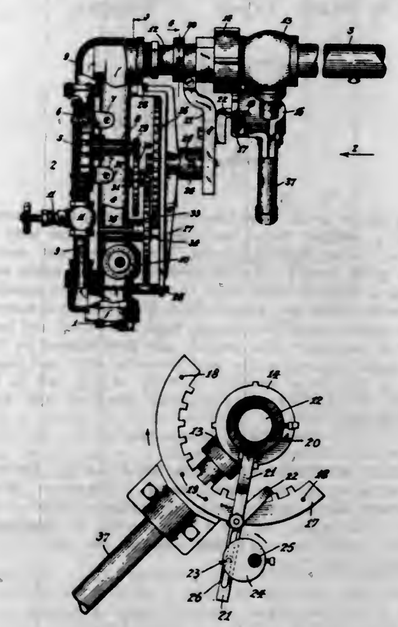
9. The combination in a shoe, of a stirrup-like support connected with the upper of said shoe and extending therein freely of the sole to receive an under portion of the foot when the shoe is placed thereon, fastening means on the shoe, and strap-like portions on the stirrup adapted to be connected with said fastening means.

1,677,227. COOKING APPARATUS. FREDERICK BLATTNER, Jr., and EMIL JANKE, Brooklyn, N. Y. Filed Oct. 15, 1923. Serial No. 668,647. 1 Claim. (Cl. 126—346.)



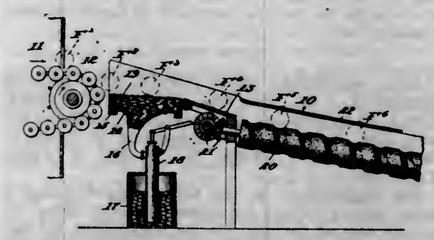
A cooking apparatus comprising an oblong tank, a cradle having four standards at the four corners of the tank and intermediate standards, horizontal shelf-supporting bars extending in vertical series horizontally in the spaces between the adjacent standards and attached to the standards, shelves supported by said bars, the shelves being made of front and back sections, and means for moving the cradle with the shelves vertically into and out of the tank to expose the shelves for access.

1,677,228. IRRIGATING APPARATUS. WALTER H. COLES, Troy, Ohio. Filed Oct. 26, 1921. Serial No. 510,634. 5 Claims. (Cl. 299—67.)



2. An oscillatory sprinkler pipe, a gear sector having a single set of teeth facing both ways, a pivotally supported pawl to engage the gear section to turn the pipe step by step, and means for automatically reversing the position of the pawl by throwing it over its pivotal center when the pipe reaches the end of its turning movement.

1,677,229. FRUIT-TREATING APPARATUS. ARCHIE W. CONKLIN, Winter Haven, Fla., assignor, by mesne assignments, to Brogdex Company, Winter Haven, Fla., a Corporation of Florida. Filed Mar. 6, 1922, Serial No. 541,269. Renewed Mar. 29, 1926. 14 Claims. (Cl. 91—47.)

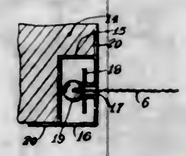


1. Fruit treating apparatus comprising the combination, with fruit brushing means, and means for feeding fruit

thereto, of means comprising a movable element adapted to be actuated by the fruit in its feeding movement for rendering coating material available in the path of said feeding movement.

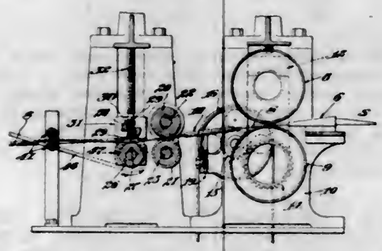
10. Fruit treating apparatus comprising a container for coating material, a foraminous member therein depressible by passage of fruit thereover to effect application of such coating material to the fruit, in combination with means for feeding fruit to and across said depressible foraminous member.

1,677,230. ROLLING WINDOW SCREEN. GIUSEPPE DE MERCURIO, Hammonton, N. J. Filed Feb. 10, 1927. Serial No. 167,230. 1 Claim. (Cl. 156—39.)



In a device of the class described, including a side member in a window frame, said member provided with a rabbeted outer vertical corner, a tubular sheet metal screen guide snugly fitted in said rabbet, the guide embodying a strip of metal bent angularly on eight parallel longitudinal lines into substantially C-shaped cross-section with a narrow guide slot therein from end to end and centrally of the inner side thereof, and ears formed on the guide flush and coextensive with the outer sides and inner walls of the latter adapted to flatly engage and to be secured to adjacent right angular faces of the side frame member.

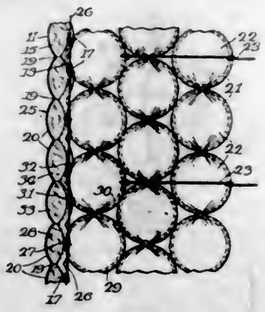
1,677,231. MACHINE FOR MAKING STRAPS. ERNEST W. DUNBAR, Hudson, and EDMUND J. DEMPSEY, West Medford, Mass., assignors to Cambridge Rubber Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Dec. 31, 1924. Serial No. 759,121. 8 Claims. (Cl. 270—94.)



1. In a machine for making straps, the combination of means for feeding a strip of strap stock, and means for cutting nearly through said strip transversely thereof at intervals while the feeding movement is continued uninterruptedly.

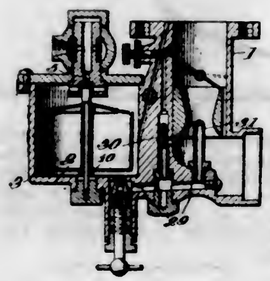
1,677,232. MATTRESS OR CUSHION AND BOXING THEREFOR AND PROCESS OF MAKING SAME. JOHN F. GAIL, Evanston, Ill., assignor to Simmons Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 3, 1927. Serial No. 223,606. 5 Claims. (Cl. 5—351.)

1. The improvement in the art of manufacturing a mattress having springs incorporated in the filling adjacent the edge of the mattress for maintaining the verticality of the boxing, which consists in making the boxing, connecting the springs to the inner face of said boxing, completing the formation of the body or filler of the mattress, applying the horizontally extending portion of the mattress casing and then sewing the edge of the boxing thereto.



5. A matress or cushion having a boxing comprising an outer and an inner strip of fabric united together by spaced parallel vertical lines of stitching and resilient filling material contained in and distending the vertical interspaces defined by said lines to substantially the same extent throughout their height, the spacing of said lines being relatively narrow compared with the vertical height of the boxing whereby the horizontal cross section of said interspaces is substantially uniform throughout their height.

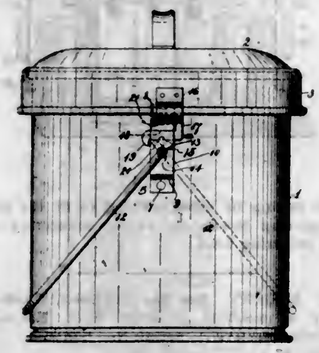
1,677,233. CARBURETOR FOR INTERNAL-COMBUSTION ENGINES. WILLIAM S. GUTHRIE, Los Angeles, Calif., assignor to Marvel Carbureter Company, Flint, Mich., a Corporation of Indiana. Original application filed Apr. 3, 1919, Serial No. 287,277. Divided and this application filed Sept. 8, 1924. Serial No. 736,597. 1 Claim. (Cl. 137—104.)



A carburetor comprising a carbureting chamber and a fuel reservoir connected thereto, a removable cover for said reservoir provided with a fuel inlet passage terminating in an enlarged passage forming a guideway, a valve sea formed at the junction of said passage, lateral branch passages extending from the enlarged passage within said fuel reservoir, a valve mounted in said guideway cooperating with said valve seat and having a reduced portion, a guideway formed in the bottom of said reservoid in which said reduced portion is slidably mounted, a float loosely mounted on the reduced portion of said valve and a pin extending through the reduced portion of said valve below said float.

1,677,234. CAN. JOHN E. R. HAYES, Melrose, Mass., assignor to Dover Stamping & Manufacturing Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Mar. 10, 1927. Serial No. 174,169. 4 Claims. (Cl. 220—55.)

1. The combination comprising a can body and cover, the cover having a flange fitting over the top end of the can body, bail mountings on the can body forming sockets within them, a bail pivotally arranged to turn on said mountings and presenting ends within the sockets formed by the respective mountings, said ends of the bail being upturned above the pivotal points of the bail when the bail is occupying its normal downturned position, a stop on the can body, and angular turned members carried by the cover adapted and arranged when the cover is turned

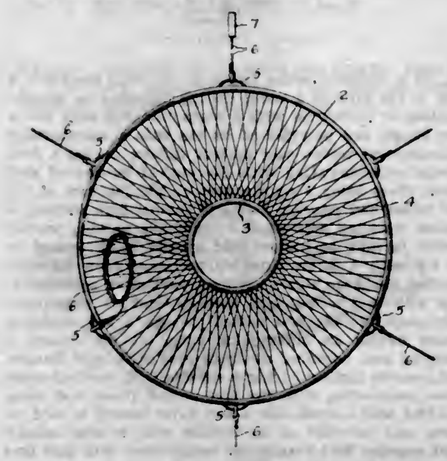


on said body to engage said stop and having lateral entry into the sockets of the respective mountings with extension over the tops of the upturned ends of the bail and with downward projection in part below and back of the same in an amount permitting said upturned ends of the bail being turned below said downward projecting part of said members on lifting the bail.

1,677,235. PROCESS FOR THE VULCANIZATION OF RUBBER AND PRODUCT THEREOF. RALPH V. HEUSER, Elizabeth, N. J., assignor to Albert C. Burrage, Manchester, Mass. Filed June 5, 1925. Serial No. 35,252. 10 Claims. (Cl. 18—53.)

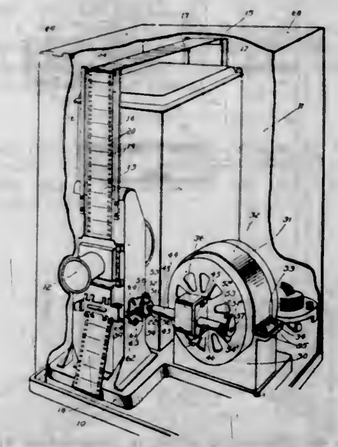
1. A process for the vulcanization of rubber which comprises heating rubber with a vulcanizing agent and a substituted guanidine containing an aryl group in each of the amino positions and a para-substituted aryl group in the imino position.

1,677,236. ICE-RESCUE DEVICE. HARRIETTE ENSLEY HODGSON, New York, N. Y. Filed Mar. 2, 1926. Serial No. 91,662. 2 Claims. (Cl. 9—17.)



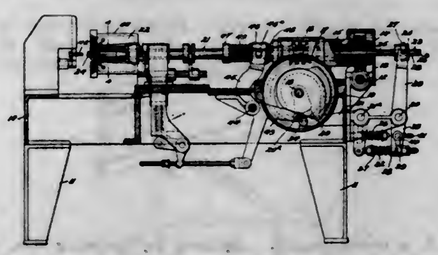
1. An appliance to save persons who have fallen through the ice, comprising a strong, portable, open frame of substantially equally large diameter in two dimensions adapted to be placed as a bridging support over a hole in the ice and affording a central manhole through which the person may escape, and cables attached to various portions of the frame to be held by persons on the ice or shore.

1,677,237. PROJECTING MACHINE. EGBERT C. JENNER, Independence, Mo. Filed May 12, 1926. Serial No. 108,553. 2 Claims. (Cl. 88—18.3.)



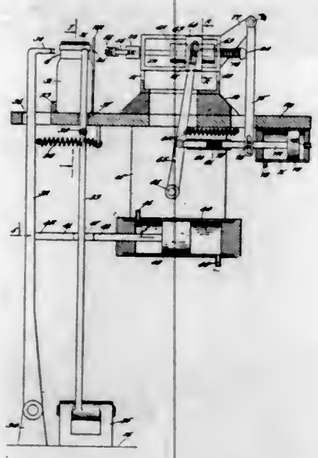
1. In a projector, means for advancing a film comprising a motor, a motor support, reduction gearing and shaft carried by said motor, a driving member on each end of said shaft, a film-engaging member, and a member rotating therewith and engageable with either of said driving members, whereby said motor may be inverted in its support to reverse the direction of movement of said film.

1,677,238. AUTOMATIC POINTING AND THREADING MACHINE. JAMES A. KINNEY, Lebanon, Pa., assignor to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Dec. 9, 1921. Serial No. 521,218. 3 Claims. (Cl. 10—4.)



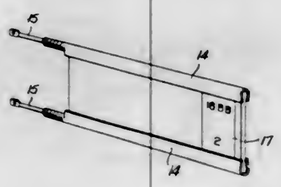
1. In a machine for threading and pointing bolts, the combination of a hollow spindle, a threading tool carried by the spindle, a pointing tool, a shank connected to the pointing tool and extending through and beyond one end of the hollow spindle, a member having trunnions capable of relative rotative movement with respect to the shank but fixed against a longitudinal movement with respect thereto, said member being located beyond one end of the hollow spindle, a lever having a yoke provided with open-ended slots for engagement with the trunnions, and means for oscillating the lever including manually releasable means whereby said first means may be disconnected with respect to the lever so that the latter may be disengaged from the trunnions.

1,677,239. JAR-TRIMMING MACHINE. JOHN L. KIVLAN, Boston, Mass., assignor, by mesne assignments, to William L. Walker, Worcester, Mass. Filed Mar. 4, 1924. Serial No. 696,774. 13 Claims. (Cl. 140—94.)



1. In a jar trimming machine, in combination, a bender for bending the wire of the trimming around the neck of a jar, a spring for forcing said bender against the wire, wipers to complete the bending, and a pusher for retracting said bender, said pusher including a cam bar having a wedge portion for retracting said wipers.

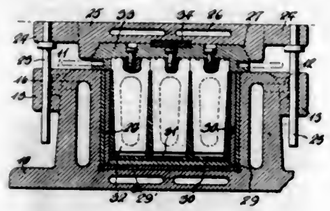
1,677,240. RESISTANCE UNIT. FREDERIC SHIELDS KOCHENDORFER, River Forest, Ill., and TERENCE ALISTER GILL, Shawinigan Falls, Quebec, Canada, assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 27, 1922. Serial No. 609,219. 18 Claims. (Cl. 201—64.)



7. A resistance unit comprising an insulating core, a resistance coil wound thereon, an outer covering therefor comprising two insulating sheets applied one against each side of the coil and having their edges bent over and overlapping the sides thereof to form a beaded portion at each side of the core, a metallic member inserted on each beaded portion, and a terminal post carried by each of said metallic members.

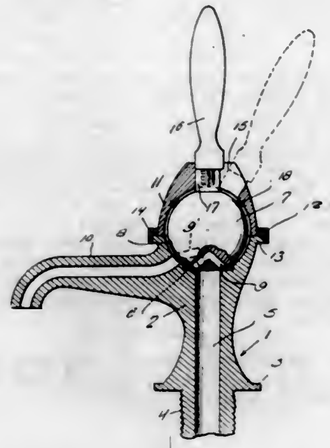
1,677,241. STORAGE-BATTERY MOLD. GEORGE F. LANGERMEIER, Cleveland, Ohio. Filed Oct. 29, 1923. Serial No. 671,445. 3 Claims. (Cl. 18—35.)

1. A mold of the character described comprising a body portion having a form receiving recess, a centering head arranged above the mold, and having a centering recess in the lower face, said centering recess having inwardly converging side walls, cores arranged to be moved into the recess, a head carried upon the upper end of the



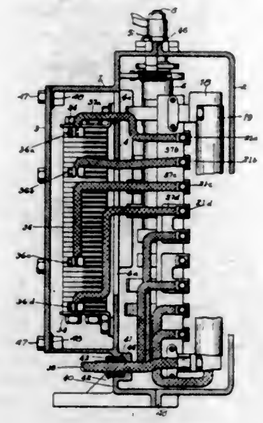
cores, and having its sides bevelled to fit the side walls of the centering recess, means for connecting the core head and centering head.

1,677,242. FAUCET. THOMAS LARRIGAN, Kankakee, Ill., assignor of one-half to Elzie Huot, Kankakee, Ill. Filed July 14, 1927. Serial No. 205,618. 2 Claims. (Cl. 251—95.)



1. In a domestic water faucet of the class described, a body in the form of a metal casting including an upright provided at its bottom with a screw threaded neck and a base flange, and provided at its top with a substantially semi-spherical recess, said upright further having a fluid passage communicating with the central portion of said recess, there being a counter-bore at the juncture of the said recess and passage, and said counter-bore forming a washer receiving depression, a renewable packing washer located in said depression, said upright being formed at its top with a screw threaded portion, and a laterally directed discharge nozzle having a passage in communication with said recess, said passage being at substantial right angles to the first named passage, a ball confining bonnet having an outstanding flange at its bottom, a clamping and retaining nut connected with said flanges, said bonnets further having a substantially semi-spherical recess cooperating with the first named recess and being provided with a guide slot, a ball valve located in said recesses and provided at its bottom with a substantially right angular fluid passage for cooperation with said first named passage and valve seat washer, and a handle connected to said ball valve and slidably mounted in said guide slot.

1,677,243. ELECTRIC CONTROLLER. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Dec. 30, 1920. Serial No. 434,075. 21 Claims. (Cl. 201—48.)

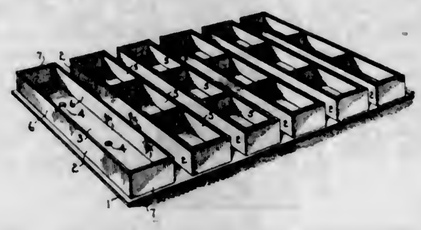


8. The combination of a controller casing having an open front and back with flanged edges, and commutating and resistance element receiving chambers in said casing, journal bearings mounted at the edges of said open front, an apertured resistance supporting wall between said chambers, a front cover plate having flanged edges abutting the flanged edges of said casing to clamp and support said bearings and form a gas and flame proof joint with said casing and said journal bearings, and a back cover plate to close said resistance element chamber with a gas and flame proof joint.

1,677,244. LUBRICATING OIL. JOHN H. MACKLE, Watervliet, N. Y. Filed Mar. 10, 1925. Serial No. 14,560. 2 Claims. (Cl. 87—9.)

1. A lubricating oil consisting of 60% mineral lubricating oil, 20% corn oil, and 20% castor oil.

1,677,245. PROCESS OF PREPARING CAKE. SAMUEL F. MCDONALD, Memphis, Tenn. Filed May 26, 1922. Serial No. 563,826. 1 Claim. (Cl. 107—54.)

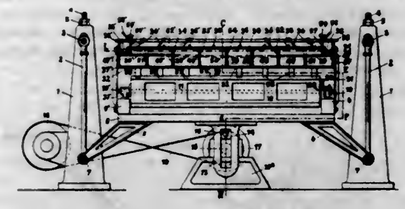


The process of preparing mechanically wrapped cakes which consists in placing a mold of relatively stiff paper in a rigid container having walls conforming to the walls of the mold; filling the mold with dough; baking the dough therein; removing the baked cake with the mold adhering thereto from the rigid container; then completely wrapping the mold with the baked cake therein.

1,677,246. HAIR-WAVING SOLUTION. FRANK J. MCKENNA, New York, N. Y., assignor to Chemical Preparations, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 26, 1928. Serial No. 264,961. 3 Claims. (Cl. 132—36.2.)

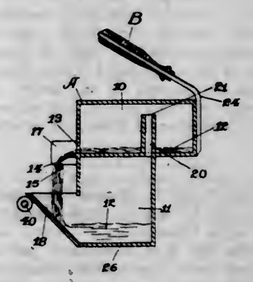
1. As a new product of manufacture, a solution for the curling or permanent waving of hair containing four parts hydrazine hydroxide NH_2NH_3OH by weight and ninety-six part water by weight.

1,677,247. SORTING MACHINE. GOTTFRIED NEUHAUS, Eberswalde, Germany. Filed June 27, 1924, Serial No. 722,838, and in Germany June 27, 1923. 6 Claims. (Cl. 209—498.)



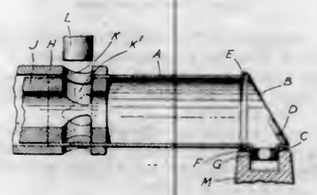
1. In a sorting machine with sorting table and baffle members thereon, a distributing device comprising in combination a box, a horizontal plate in said box, passages between the frontal ends of said plate and the opposite walls of said box, cross walls arranged below said plate and forming chambers in the box, outlet branches below said chambers discharging onto the sorting table, and means adapted to reciprocate said box.

1,677,248. SOLDERING DEVICE. ROBERT REINBOLD, St. Paul, Minn. Filed Sept. 16, 1927. Serial No. 219,894. 12 Claims. (Cl. 219—26.)



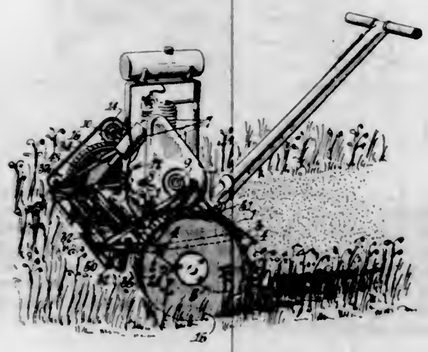
9. A soldering device including, compartments for holding melted solder, and electrical heating means positioned within said compartments to keep the solder at a melted temperature.

1,677,249. METHOD OF MAKING SLEEVE VALVES. HARRY RALPH RICARDO, London, England. Filed Nov. 6, 1926, Serial No. 146,705, and in Great Britain Dec. 18, 1925. 17 Claims. (Cl. 29—156.7.)



1. The method of forming sleeve valves for fluid pressure engines consisting in pressing out from the wall of a tubular metal blank a boss for a driving connection, and forming a port in the wall.

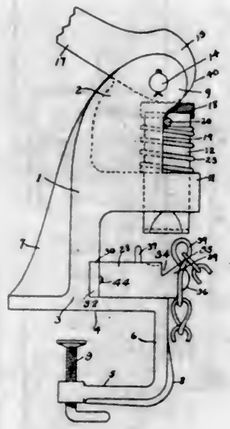
1,677,250. LAWN-MOWER ATTACHMENT. FRANK MONTGOMERY RITTER, Washington, D. C., assignor of three-fourths to James Vansandt Hutchins, Washington, D. C. Filed Aug. 26, 1927. Serial No. 215,720. 7 Claims. (Cl. 56—238.)



6. The combination with a lawn mower having a cutting reel, a frame, and means to impart rotation to the cutting reel; of a topping reel in advance of said cutting reel, trunnions projecting from the topping reel, hanger arms adjustably secured at one of their ends to a part of the frame to project forwardly therefrom, bearings carried by said arms to receive the topping reel trunnions, brace rods connected at their advance ends to the projected ends of the arms and at their other ends to the frame, a ledger bar carried by the hanger arms in coactive relation with the topping reel, and means to transmit rotation to the advance reel from said rotation imparting means.

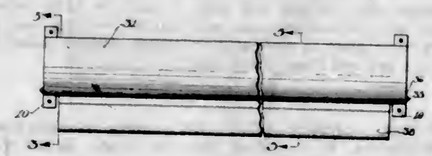
1,677,251. CHAIN TOOL. JAMES WEBB SAFFOLD, Cleveland, Ohio. Filed Sept. 7, 1926. Serial No. 133,758. 11 Claims. (Cl. 81—15.)

1. In a chain link tool adapted to open the eyes of cross chain links of a tire antiskid chain, the combination with a frame having an upstanding head, of a base, a transversely recessed anvil secured to the base, and a plunger adapted for reciprocation in a bored portion of the head towards and away from the anvil, said plunger terminating in a die at its lower end, said anvil having a wedge portion terminating in an edge offset relative to the medial line of the plunger, said anvil having lugs projecting from its top and side portions, said lugs adapted to enter the loops of the links adjoining the link whose eye is being operated upon during the eye opening



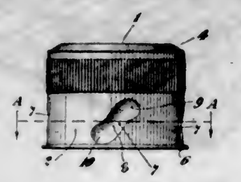
or closing process, said lugs being so positioned upon the anvil that the die will not contact with the links which are held by the lugs.

1,677,252. WINDOW-SHADE CLEANER. HENRY SCHURR, Philadelphia, Pa. Filed Aug. 31, 1927. Serial No. 216,516. 7 Claims. (Cl. 156—10.)



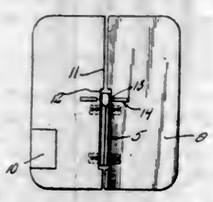
1. In a shade roller housing containing a shade, means for cleaning the shade including a rod mounted in the casing, and a flexible cleansing fabric carried by the rod and engaging the upper half of the rolled portion of the shade.

1,677,253. FRICTION CAP FOR BOTTLES AND JARS. EDGAR SCOFIELD, New York, N. Y., assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y., a Corporation of New York. Filed Jan. 28, 1926. Serial No. 84,276. 9 Claims. (Cl. 215—38.)



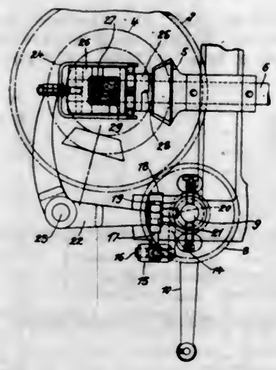
1. A closure cap of the friction type comprising a cover portion, a substantially cylindrical skirt depending therefrom, and locking lugs in the skirt of said cap, said lugs having end portions having a substantially circumferential direction and an intermediate inclined portion joining said end portions.

1,677,254. SWIMMING DEVICE. CHARLES SPURGES, De Kalb, Ill. Filed Sept. 12, 1927. Serial No. 219,035. 2 Claims. (Cl. 9—21.)



1. A device of the class described, a handle member, a pair of wings hingedly attached thereto, straps connecting the underside of the wings to the handle limiting the outward movement of the wings and a section of relatively soft material provided in one of said wings adapted to prevent injury to the hand of the user upon contact with the wings.

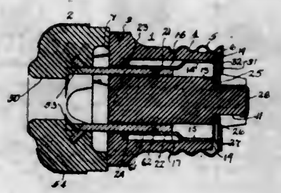
1,677,255. APPARATUS FOR THE DRIVING OF A PATTERN MECHANISM OR SHED-FORMING MACHINE. HUGO STÄUBLI, Zurich, Switzerland, assignor to Gebr. Staubli & Co., Horgen, Switzerland. Filed Feb. 4, 1927, Serial No. 165,978, and in Switzerland May 18, 1926. 12 Claims. (Cl. 139—56.)



1. Hand and power driving device for pattern mechanisms, comprising a power shaft, a shaft on the pattern mechanism, cams on this shaft for producing a reciprocating movement of pattern knives, a releasable clutch adapted to transmit power from the first to the second of said shafts, a gearing through which said cams may be driven in either direction by hand, a hand operated device inserted between said clutch and gearing and adapted to simultaneously disconnect said shafts and connect said gearing.

1,677,256. SEPARABLE ELECTRICAL CONNECTION. WILLIAM C. TREGONING, Cleveland Heights, Ohio. Filed Jan. 16, 1923. Serial No. 613,063. 4 Claims. (Cl. 173—343.)

1. In an article of the character described, the combination of a cap section having a pair of contact blades and a base section, said base section having a pair of longitudinal blade contact recesses, seats formed adjacent said recesses, contact elements in said recesses having angular portions adjacent thereto for engagement with

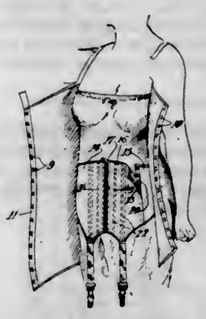


said seats, and a contact shell provided with a straight inwardly extending flange at its upper edge parallel to the angular portions of said contact elements for pressing the same firmly against said seats.

1,677,257. PROCESS FOR THE MANUFACTURE OF ARSENIC ACID. FRITZ ULLMANN, Charlottenburg, and GERT TREWENDT, Berlin, Germany, assignors to J. Michael & Co., Berlin, Germany. Filed June 26, 1923, Serial No. 647,901, and in Germany Mar. 6, 1923. 3 Claims. (Cl. 23—144.)

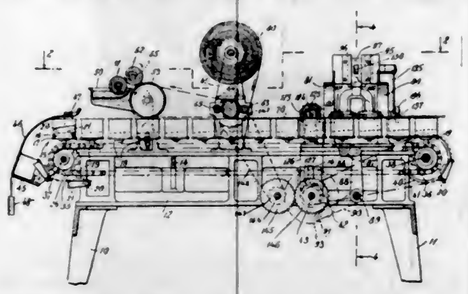
1. The process of making arsenic acid which consists in heating to boiling a solution comprising 10 parts of arsenic trioxide, 20 parts of water and 3.8 parts of potassium chlorate, and then adding thereto a small amount of hydrochloric acid.

1,677,258. GARMENT. ROSANA DE FORA ULMAN, Chicago, Ill., assignor to Anna Rothstein, Chicago, Ill. Filed Aug. 4, 1926. Serial No. 127,016. 3 Claims. (Cl. 2—27.)



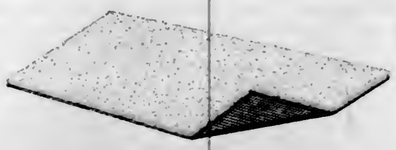
1. A garment of the kind described adapted to encircle the figure, inner flaps extending toward the front of the figure with their edges secured to the garment adjacent the sides thereof, an extension piece detachably fastened to one flap, means securing the extension piece to the other flap comprising an elastic section joined thereto at points remote from the proximate edges of the flap and extension piece, and a backing for the elastic section joined to the flap and extension piece at points close to the side edges of the elastic, the backing having a vertical pleat whereby it may expand within definite limits as the elastic is stretched, substantially as described.

1,677,259. SEALING MECHANISM FOR CONTAINERS. JOHN VAN BUREN, Brooklyn, N. Y. Filed Nov. 5, 1926. Serial No. 146,428. 32 Claims. (Cl. 113—80.)



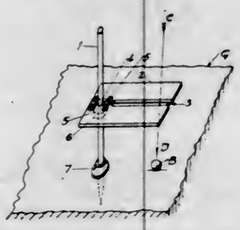
1. In a machine of the character specified, means for supporting and feeding a plurality of containers, means for feeding an elongated strip of material across the ends of the containers and into contact therewith, and means movable with the containers and strip for severing said strip.

1,677,260. BLANKET. HAROLD C. WHITMAN, Bedford, N. Y. Filed Mar. 20, 1926. Serial No. 96,232. 1 Claim. (Cl. 139—391.)



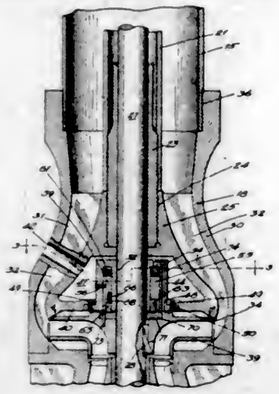
A woven combined bedspread and blanket having a weft consisting of fine hard yarn threads alternating with coarse soft yarn threads, the fine yarn threads being floated over the warp so as to lie mainly on the face of the spread and form a hard wearing surface, the coarse yarn threads being floated under the warp and being teaseled and of such a character as to form a continuously napped warm blanket surface on the back of the spread.

1,677,261. DEVICE FOR IMPROVING STANCE IN CONNECTION WITH THE GAME OF GOLF. ELMO HAMILTON WILLIAMS, Pearl Harbor, Territory of Hawaii. Filed May 7, 1928. Serial No. 275,909. 2 Claims. (Cl. 273—35.)



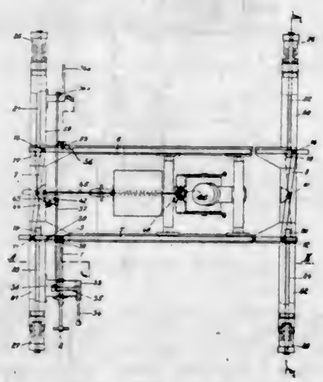
2. In an accessory for guiding vision in playing the game of golf, or the like, a thin opaque, flat or plate-like member with a slot or narrow bifurcation through its thin dimension, means for placing, adjusting, and retaining said flat member and slot in a desired position, and means for rapid disassembly of the device for stowage in the player's club bag or other receptacle.

1,677,262. OIL-TUBE WATER SEAL. JOHN A. WINTROATH, Los Angeles, Calif., assignor to Peerless Pump Company, Los Angeles, Calif., a Corporation of California. Filed Nov. 17, 1925. Serial No. 69,658. 20 Claims. (Cl. 103—102.)



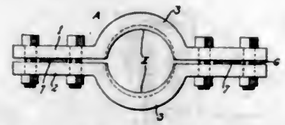
1. In a turbine pump of the class described, the combination of: a pump bowl; a line shaft extending into said pump bowl; a bearing supported in said bowl in which said line shaft journals; an impeller secured to said line shaft in said bowl below said bearing, said impeller forcing water through said pump bowl when said line shaft is rotated; and means between said bearing and said impeller for obstructing a flow of water to said line shaft.

1,677,263. TIPPING CAR. OTTO BALLERT, Berlin, Germany. Filed May 9, 1927, Serial No. 190,062, and in Germany Jan. 9, 1926. 2 Claims. (Cl. 298—18.)



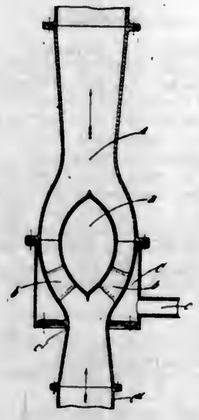
1. A three-way hydraulic tipping device comprising a supporting frame having bearings and body latches; a body having combined pivot and bearing members; spring-actuated locking heads forming parts of said bearings and each having two oblique faces adapted to cause automatic opening of the heads when the body is lifted or lowered, a separate change-position device comprising two parallel, longitudinally movable ledges having holes therein and slots forming extensions of the holes; double-armed levers connecting said ledges with each other to form a cinematic chain; and rods arranged at right angles with respect to the said ledges and having enlarged ends adapted to pass through said holes, said rods being connected with the said locking heads.

1,677,264. METHOD OF MAKING CLAMPS. WILLIAM R. BARNEY, Tulsa, Okla., assignor to W. C. Norris, Tulsa, Okla. Filed Mar. 23, 1925. Serial No. 17,682. 1 Claim. (Cl. 29—148.)



The method of producing clamps for the support of oil well pipes which comprises forming recesses, smaller than the pipe to be supported, in the inner faces of the clamping members, placing spreaders between said members, machining said inner faces so that spaces of exactly the same diameter as the pipe are provided, then removing said spreaders, and machining the top and bottom faces of said clamping members.

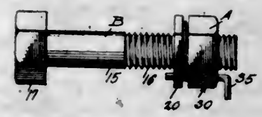
1,677,265. AIR-LIFT PUMP. JENS ORTEN BOVING, Westminster, England. Filed Aug. 27, 1925, Serial No. 52,835, and in Great Britain Aug. 29, 1924. 10 Claims. (Cl. 103—232.)



1. In a liquid pump of the type in which the liquid is raised in an uptake or ascension conduit by means of gas under pressure admitted to this conduit at or near its lower end, the combination with the said conduit of a hollow member disposed within the lower part thereof so as to leave a space between said member and said lower part of the conduit, said member having an inwardly leaning part and said conduit an outwardly leaning part, means for admitting the gas under pressure into said space outwardly through the inwardly leaning part of said hollow member, and means for admitting gas under pressure into said hollow member, and means for admitting gas under pressure into said space inwardly through the outwardly leaning part of the wall of said conduit so that both supplies of gas during their ascent immediately after they enter the liquid pass through the latter at a considerable angle to the direction of flow of the liquid and efficient admixture of the gas and liquid is thereby obtained.

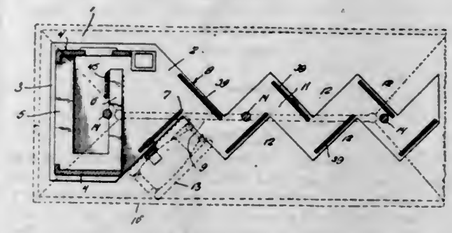
1,677,266. NUT LOCK. IVO GEORGE BRENNEMAN, Blue Ball, Pa. Filed Feb. 1, 1927. Serial No. 165,223. 3 Claims. (Cl. 151—19.)

1. A nut lock comprising an inner nut section, an outer nut section, one of the nut sections being threaded upon the other, the bores of the nut sections being enlarged at their inner ends to provide a chamber when the nut sections are fitted together, a split clamping ring disposed in the chamber having internal threads for engaging the bolt, the nut sections and the clamping ring having coacting beveled faces for bringing about the contraction of the ring when one section is threaded upon



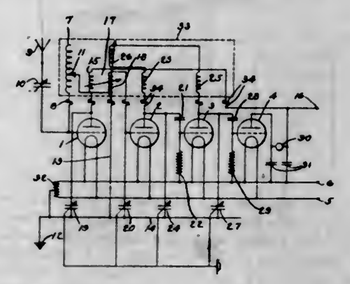
the other, each of the nut sections having keyways at one side of the bore thereof adapted to be brought into registration with one another at the split portion of the ring, a removable key fitted in said alined keyways and said split for holding the nut sections and ring against relative movement to one another whereby the nuts can be threaded upon a bolt as a single unit.

1,677,267. BUILDING CONSTRUCTION. HARRY R. BRISTOL, Findlay, Ohio, assignor of one-half to Jay S. Bristol, Charleston, W. Va. Filed Apr. 9, 1927. Serial No. 182,521. 6 Claims. (Cl. 186—1.)



1. A building construction, comprising a platform, a roof supported on said platform in spaced relation above the same, a tray carrier movably mounted adjacent the edge portion of the platform between the platform and said roof structure, the tray holding means pivotally mounted on said tray carrier for removably receiving the trays.

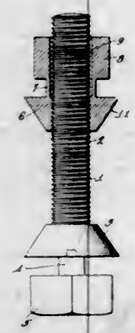
1,677,268. HIGH-FREQUENCY SIGNALING SYSTEM. WALTER JOHN BROWN, Eversley, England, assignor, by mesne assignments, to Metropolitan-Vickers Electrical Company, Limited, a British Joint Stock Company. Filed June 2, 1924, Serial No. 717,248, and in Great Britain June 9, 1923. 7 Claims. (Cl. 250—20.)



1. A radio receiving system comprising in combination a radio receptor circuit comprising an inductance, a triode amplifier device comprising electron discharge

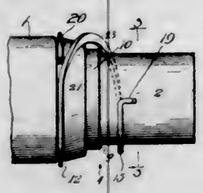
means and grid and plate inductances electromagnetically coupled and associated with said receptor circuit, additional amplifier means comprising electron discharge means and inductances, a detector, a container, a removable sub-container therewithin, said inductances being positioned therein, and removable therewith, and means whereby the inductances positioned in said sub-container are connected in circuit when the sub-container is inserted into said container.

1,677,269. NONREMOVABLE NUT. THOMAS N. BURGHART, Philadelphia, Pa. Filed Dec. 21, 1925. Serial No. 76,621. 3 Claims. (Cl. 85—32.)



1. A non-removable nut including a body part having a desired outer shape and threaded on the inside, a reduced nonthreaded part integral with said body part having a bore slightly larger than the threaded part of said body part, the center of said bored portion being in line with the center if said threaded part, a wrench-engaging part integral with said reduced part, said reduced part being of comparatively slight construction and adapted to be sheared off upon the application of certain force to said wrench-engaging part.

1,677,270. TOOL RETAINER FOR PNEUMATIC HAMMERS. JOHN M. BUTLER and HARRY A. TORSON, Chicago, Ill., assignors to King Pneumatic Tool Company. Filed Sept. 10, 1923. Serial No. 661,963. 3 Claims. (Cl. 121—32.)



2. A tool retainer for pneumatic hammers comprising a unitary structure capable of flexing longitudinally of its axis and having attaching means for securing it to the hammer barrel and a retaining arm adapted to be sprung laterally to permit attachment or detachment of the tool without disturbing said attaching means, said arm having a forwardly projecting terminal finger adapted to be engaged by a portion of the tool in advance of engagement of the tool with said arm to facilitate attachment of the tool to the hammer.

1,677,271. PANIC BOLT. WILLIAM J. CARROLL, West Haven, Conn., assignor to Sargent & Company, New Haven, Conn. Filed Aug. 29, 1923. Serial No. 659,969. 2 Claims. (Cl. 292—92.)



1. In a panic bar latch mechanism, a keeper plate adapted to be secured to a door frame and provided with a cylindrical rod disposed in a horizontal position, a casing adapted to be secured to a door and having a pivot member extending transversely thereof, a bolt mounted on the pivot member to swing about a horizontal axis, said bolt being provided with a relatively deep slot to receive the rod on the keeper plate, the width of said slot being such as to receive the rod therein substantially without play in a direction transversely of the slot, means for guiding said rod into said slot, and a rod extending longitudinally into the casing and engaging the bolt below the pivot to dog it in door latching position.

1,677,272. PROCESS OF MIXING METALLIC SALT IN ASPHALTIC COMPOUNDS. FRANCIS L. CARSON, Berkeley, Calif. Filed May 13, 1926. Serial No. 108,975. 9 Claims. (Cl. 106—31.)

8. In the production of a relatively large quantity of bituminous compound processed with copper sulphate; the steps of forming a solution by bringing water and a known quantity of copper sulphate together; mixing this solution with a small quantity of bitumen to produce a mixture containing an amount of the copper sulphate greatly in excess of that needed to process said small amount of bitumen, allowing the water to evaporate and mixing a known volume of this rich mixture with many times that volume of hot bitumen.

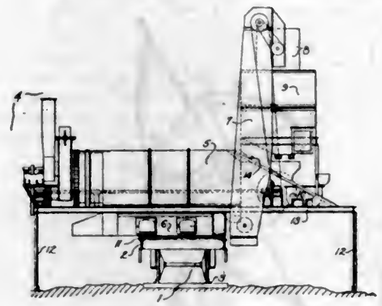
1,677,273. MOTOR FUEL. DAVID COSTAGUTA, Buenos Aires, Argentina. Filed June 1, 1925, Serial No. 34,258, and in Argentina Mar. 10, 1925. 3 Claims. (Cl. 44—9.)

1. An addition agent adapted to be added to gasoline motor fuel and the like comprising trinitrophenol 2%, ethyl ether 3%, naphtha 20%, petroleum ether 60%, Pgroin 15%.

1,677,274. ASPHALT-MIXING PLANT. FREDERICK H. CUMMER, Los Angeles, Calif. Filed Dec. 13, 1926. Serial No. 154,494. 3 Claims. (Cl. 94—43.)

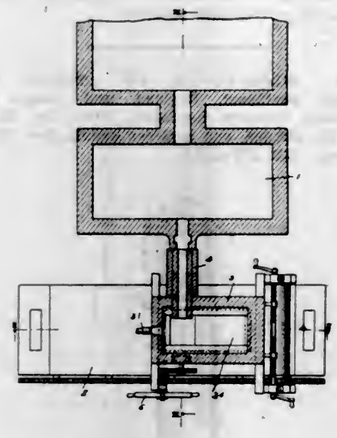
1. In combination, a railway carriage provided with wheels, and a standard road plant mounted thereon, said road plant including the usual drying, elevating, screening, and mixing means, the mixing means discharging by gravity, and said plant being movable on the carriage

to either of two positions, in one of which all parts of the plant are contained within the railway clearance lines for transportation purposes, and in the other of



which the mixing end of the plant extends beyond the clearance lines to a position where the mixer can discharge by gravity into a container.

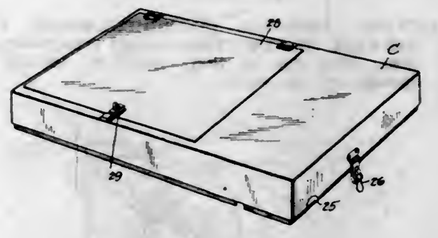
1,677,275. GLASS-TEEMING APPARATUS. HARVEY H. DEULEY, Parkersburg, W. Va. Filed June 28, 1926. Serial No. 117,967. 7 Claims. (Cl. 49—55.)



1. Apparatus for the delivery of molten glass in a succession of unit charges including a ladle pivoted on a horizontal axis asymmetrical in shape with respect to a vertical plane passing through its pivotal axis, its center of gravity when empty lying on one side of such vertical plane and its center of gravity when filled with molten glass lying on the other side of such vertical plane.

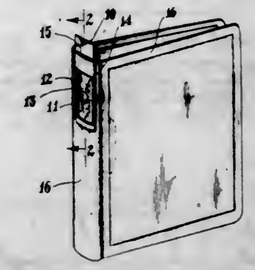
1,677,276. FOOD TRAY. LOUIS A. DEICKEN, Los Angeles, Calif. Filed Dec. 29, 1926. Serial No. 157,755. 2 Claims. (Cl. 65—53.)

1. A food tray comprising a rectangular tray body having a vertical and double walled transverse partition adjacent one end for dividing the body into a plurality of compartments, one of which is provided with a top wall having food receiving pockets and forming a closed chamber adapted for the reception of a heating fluid by which heating of the pockets and the food contained therein is effected, the other compartment having an open top and adapted for the reception of cold foods, said last compartment having at one end a plurality of cups adapted to receive condiments, a flanged cover having a depending off-



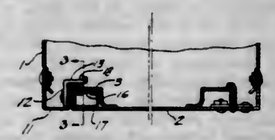
set lip around the free edge of its flange adapted for interfitting engagement within the side walls of the body so as to support the cover on the body, said cover having a dish and cutlery receiving compartment therein accessible from its outer side, and provided with a hinged door.

1,677,277. REMOVABLE WINDOW TAG FOR BINDERS. MAX W. FEDERBUSH and JACOB D. FEDERBUSH, New York, N. Y. Filed Nov. 24, 1925. Serial No. 71,070. 4 Claims. (Cl. 129—1.)



3. In a removable window tag structure for binders, or the like, having a slot and an aperture, the combination of a tag engageable in said slot, and extending behind said aperture, and a strip engageable in said slot and having attached thereto a plurality of pieces, in such a manner as to form an outer uneven surface as a means for holding the said tag in place.

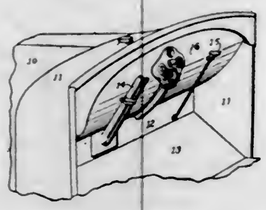
1,677,278. LOCKER LATCH. ARTHUR F. FOEHRENBACH, Canton, Ohio, assignor to The Berger Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed Aug. 1, 1927. Serial No. 209,811. 3 Claims. (Cl. 192—162.)



1. Latching mechanism for use in a door having an open-ended tubular housing, comprising, a latching member positioned in the housing and having angularly

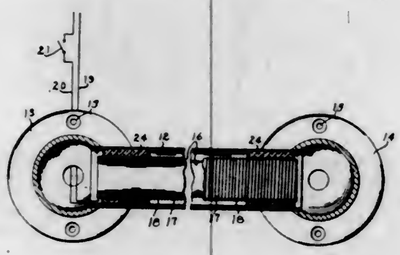
projecting hooks adapted to project through slots in said housing, and means insertable through the open end in said housing after said member is positioned in the housing, said means cooperating with said latching member whereby to maintain it in operative position in the housing.

1,677,279. COMBINED INSTRUMENT-BOARD AND GAS-TANK CONSTRUCTION. HENRY FORD, Dearborn, Mich. Filed Feb. 14, 1927. Serial No. 167,912. 4 Claims. (Cl. 180—90.)



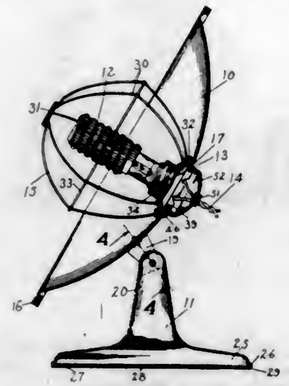
1. In a combined instrument board and cowl fuel tank construction, a tank having a recess in its rear wall, and an instrument board having a peripheral flange adapted to co-act with the rear wall of the gasoline tank adjacent to said recess to form a chamber whereby an instrument may be mounted in said chamber.

1,677,280. TOWEL BAR. ALFRED C. GILBERT, New Haven, Conn., assignor, by mesne assignments, to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Maryland. Filed Jan. 14, 1924. Serial No. 686,074. 4 Claims. (Cl. 219—19.)



4. The combination with a bathroom wall, of a towel bar structure applied thereto and extending in substantial parallelism therewith, and comprising a hollow towel supporting rod of substantial internal diameter open at the ends only, hollow end brackets having flanges secured to said wall and provided with hollow interior portions in which the ends of said rod are received for holding it in place on the wall, a resistance heater in the form of a coil located within the interior of said rod and extending lengthwise thereof for heating said rod throughout a substantial portion of its length to thereby dry a towel supported thereon, means for insulating the heater coil from said rod, concealed electrical connections passing to said heater coil through a least one of said hollow end brackets, and means for insulating the electrical connections from the structure consisting of the hollow rod and the end brackets, so that the said structure is prevented from being electrically charged by the current passing to said heater coil.

1,677,281. ELECTRIC HEATER. ALFRED C. GILBERT, New Haven, Conn., assignor, by mesne assignments, to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Maryland. Filed Feb. 5, 1926. Serial No. 86,243. 20 Claims. (Cl. 219—34.)



1. In an electric heater of the type described, a reflector having an opening through a portion thereof, a heating element support having a portion presenting a shoulder, said shonider resting upon the reflector about the opening therein, another shoulder upon said support, a member engaging the second mentioned shoulder and having a portion overlying the reflector, and means to secure the portion of said member overlying the reflector to clamp the support to said reflector.

1,677,282. BILLIARD-CUE TIP. THOMAS WHYTE GUTHRIE, Southport, England, and CREBAR GUTHRIE, Yoker, Glasgow, Scotland. Filed Oct. 22, 1927, Serial No. 228,068, and in Great Britain Nov. 12, 1926. 2 Claims. (Cl. 273—70.)

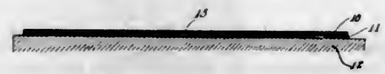


1. In a billiard cue, a tip, a shoulder on said tip, an inner tube, an outer tube embracing the inner tube, flanges on both tubes engaging the shoulder on the tip, means for cushioning the tip against the end of the cue, and means for fixing the outer tube with the cue in such manner as to draw the tip against the end of the cue with the cushioning means between for fastening the tip to the cue.

1,677,283. BLEACHING COMPOSITION. EDGECOMBE M. JONES, Utica, N. Y. Filed Aug. 17, 1925. Serial No. 50,840. 10 Claims. (Cl. 8—2.)

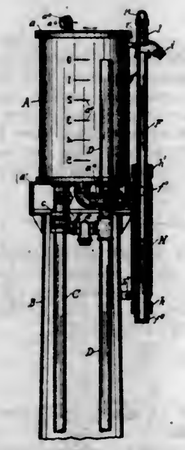
1. In the art of simultaneously bleaching white goods to a true white and incidentally setting any colors present in the goods, the process which comprises the subjecting of the goods to a single boiling treatment while in an iron kier and while subjected to the action of a reagent including sodium silicate, oxalic acid, sodium biborate and sodium perborate, said reagent being capable of bleaching the white areas and setting the colors in the goods and incapable of forming iron rust with the material of the kier.

1,677,284. SHEET MATERIAL AND METHOD OF MAKING AND MOUNTING THE SAME. TOD J. MELL, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Apr. 23, 1926. Serial No. 104,126. 8 Claims. (Cl. 154—49.)



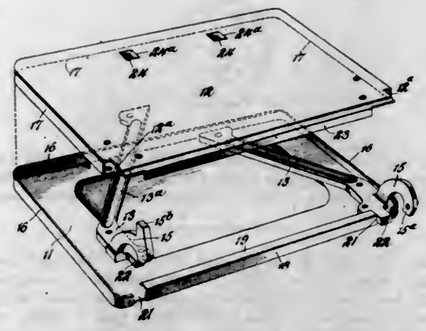
1. Sheet material comprising a sheet of rubber and, vulcanized thereto a backing sheet therefor comprising fibrous material consolidated with a binder adapted to absorb a rubber solvent without swelling.

1,677,285. LIQUID MEASURING AND DISPENSING APPARATUS. CARROLL L. MERRIMAN, Fort Wayne, Ind., assignor to Wayne Company, Fort Wayne, Ind., a Corporation of Indiana. Filed July 24, 1924. Serial No. 727,934. 9 Claims. (Cl. 221—100.)



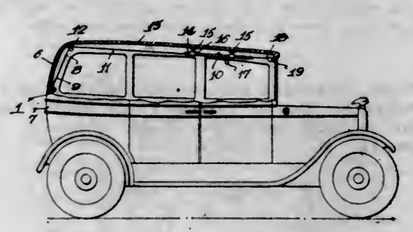
1. In combination with a liquid measuring and dispensing apparatus having an elevated container from which liquid is dispensed, a vertically positioned well through which the liquid dispensed passes, a conduit connecting the bottom of said container with said well, a vertically adjustable outlet tube closed at its lower end and extending through said well, an opening in said tube, at such a position as always to remain within said well to admit liquid from the well to the interior of the tube, vented means secured to the top of said tube adapted to form a cap for same, and a conduit through which liquid may be served from said tube.

1,677,286. STOVE AND OVEN DOOR. WALTER MOLL, Evansville, Ind., assignor to Fred W. Goedeke, Evansville, Ind. Filed Aug. 3, 1926. Serial No. 126,900. 9 Claims. (Cl. 126—190.)



1. In an oven door, the combination of an outer plate and an inner plate spaced apart and having interfitting peripheral flanges, hinge blocks in the space enclosed between the two plates and secured at their lower ends to the inner plate only, means formed on the lower part of the outer plate and invisible from outside the door for receiving and retaining the lower edges of the hinge blocks and inner plate, a handle on the upper part of the door, and unitary means for securing the handle and adjacent portions of the hinge blocks and inner plate to the outer plate.

1,677,287. APPARATUS FOR ADJUSTING AUTOMOBILE CURTAINS. ROBERT E. NAUMBURG, Winchester, Mass. Filed May 13, 1927. Serial No. 191,118. 4 Claims. (Cl. 296—97.)

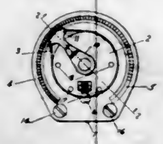


1. Apparatus for adjusting window curtains and the like comprising a stationary curtain roller, a cord roller, a cord having its opposite ends attached to the cord roller and the curtain respectively, take-up springs oppositely connected with the rollers respectively to hold the cord and curtain taut, the cord roller spring tending to unwind the curtain from the curtain roller, and means having sufficient friction to hold the cord and curtain in adjusted position against the unbalanced increment of spring action.

1,677,288. RHEOSTAT. WILLIAM EDWARD NEWMAN, Utica, N. Y. Filed Dec. 27, 1926. Serial No. 157,113. 4 Claims. (Cl. 201—55.)

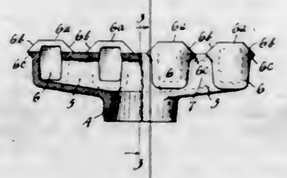
1. A rheostat comprising a base, a shaft rotatably carried by the base and extending therethrough, a resistance unit consisting of an insulator and wire wound thereon arcuately carried on the base in radially spaced relation to the axis of the shaft, a one piece arm carried on the end of the shaft and extending to the re-

sistance unit and a contact band anchored on the base and extending between the end of the arm and the turns of the resistance wire whereby as the arm is moved



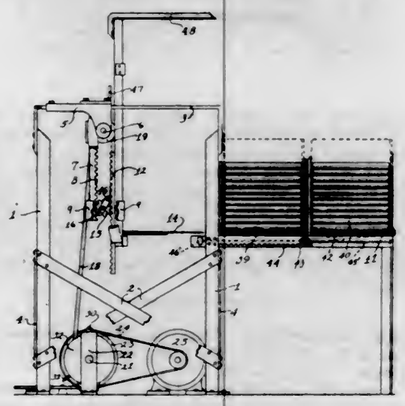
the band is rolled into contact with the wire, said arm being provided with integral means comprising a flexible loop for putting a resilient pressure on said contact band.

1,677,289. GAS BURNER FOR STOVES. WALTER OLSEN and SOPHUS RASMUSSEN, Albert Lea, Minn., assignors to American Gas Machine Company, Albert Lea, Minn., a Corporation of Minnesota. Filed Aug. 3, 1925. Serial No. 47,797. 4 Claims. (Cl. 158—104.)



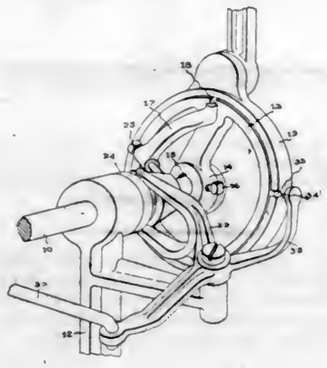
1. A gas burner comprising a plurality of spaced elongated adjacent hollow sections, said sections each having a series of spaced slots extending thereacross, the tops of said sections comprising horizontal flat top portions and side portions inclined downwardly therefrom, the lower edge of said inclined portions terminating substantially at the bottom of said slots, said sections having means below said inclined portions for directing the air away from said inclined portions and slots.

1,677,290. EGG-CASE FILLING AND INVERTING APPARATUS. DONALD PARKER, Fresno, Calif. Filed May 18, 1927. Serial No. 192,465. 6 Claims. (Cl. 226—14.)



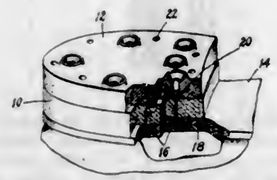
1. An apparatus for filling containers positioned with their filling opening downwardly disposed and thereafter inverting the filled container, comprising a support for the material to be filled into the container and over which the container is positioned with its filling opening downwardly disposed overlying the material, material elevating means, means overlying the container to be filled and providing a stop to limit the elevation of the container and to support the same when inverted, means for operating the elevating means to elevate the material into the container, and move the container into contact with its stop means, and a fixed axis about which said material elevating means and the container stop means revolve as a unit with the container held therebetween to invert the same.

1,677,291. WASHING-MACHINE DRIVE. HALSEY D. PAYNE, Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 26, 1924. Serial No. 752,332. 9 Claims. (Cl. 192—17.)



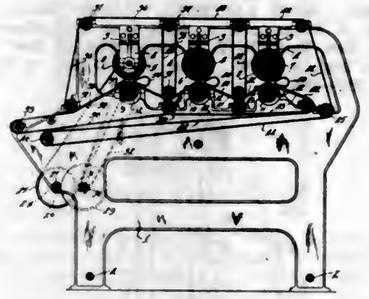
3. A clutch for connecting a driving member to a driven member comprising, in combination, a band connected to one of said members, a split ring disposed in the band, means operable to expand the split ring to grip the band, a pivotally mounted arm adapted to be moved into engagement with the band to lock it in a predetermined position, said arm having a projection formed thereon and said band having an opening formed therein to receive the projection.

1,677,292. ART OF ATTACHING HEELS. JOSEPH H. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 24, 1921. Serial No. 509,820. 4 Claims. (Cl. 12—147.)



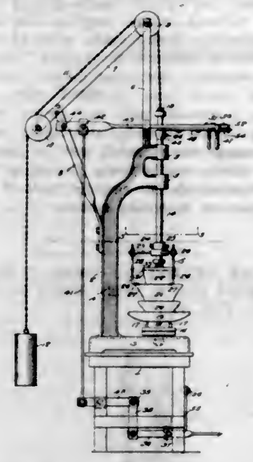
1. That method of attaching a heel to a shoe which comprises pressing upon the shoe a heel base and a rubber top section having washers embedded therein, and driving simultaneously to the same depth a plurality of attaching nails, some of which pass through said washers and some of which do not.

1,677,293. BLANKET-NAPPING MACHINE. HAROLD V. PROTHERS, New York, N. Y., assignor, by direct and mesne assignments, to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 19, 1925. Serial No. 63,350. 8 Claims. (Cl. 26—32.)



5. A napping machine, comprising a series of successive napping rolls each having interrupted brush portions, and conveyor members for supporting the work and moving the same past said napping rolls, said conveyor members engaging said rolls between the interrupted brush portions thereof.

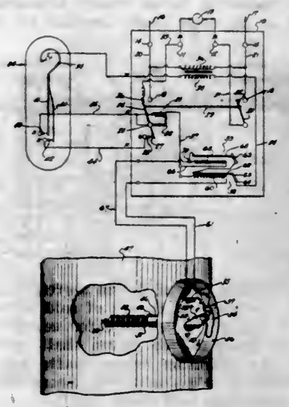
1,677,294. INSULATOR-ASSEMBLING JIG. JOHN CULLEN ROBERTSON, Annapolis, Md., assignor to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed July 14, 1927. Serial No. 205,830. 19 Claims. (Cl. 18—1.)



1. In an insulator assembling jig, the combination of a support, means on the support for supporting a plurality of insulator sections in nested relation, means for applying pressure upon the insulator sections axially thereof, and means for centering the sections with respect to one another.

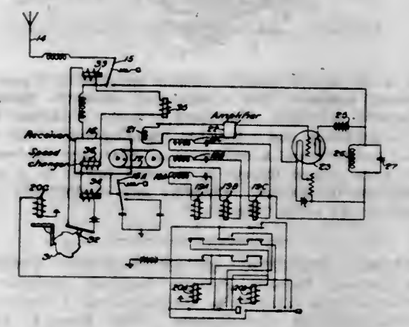
1,677,295. AUTOMATIC SAFETY CONTROL FOR OIL BURNERS. HOMER S. ROGERS and RICHARD RADDATZ, Milwaukee, Wis., assignors to Combustion Fuel Oil Burner Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed May 17, 1926. Serial No. 109,592. 12 Claims. (Cl. 158—28.)

1. In an oil burner system of the character described, the combination with the motor and controlling relay circuit thereof, of a switch, a heat-responsive element subject to the heat of the burner associated with said switch for operating the same, and a pair of thermal switch devices interposed between said relay and said switch and each comprising a heating coil and a switch controlled thereby, one of said devices being responsive to



effect opening of the relay circuit upon the existence of a condition of non-combustion at the burner, the other of said devices being responsive to effect opening of the relay circuit in the event of a short-circuit of said first-named switch and its associated connections.

1,677,296. PROCESS FOR WIRELESS TELEGRAPHY AND TELEPHONY. BRUNO ROSENBAUM, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 26, 1921. Serial No. 495,742, and in Germany Aug. 18, 1917. 7 Claims. (Cl. 250—15.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

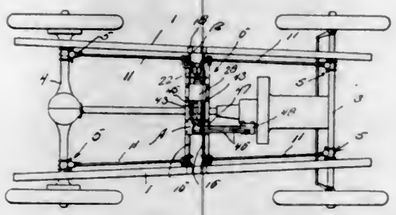


1. In a signal relaying station, a communication circuit, a receiving device, a sending device, means for bringing one or the other of said devices into operative relation with the communication circuit, means responsive to predetermined signals for actuating said first named means, whereby arrival of said predetermined signals will first start the station to sending and repetition of said predetermined signals will prepare the station for receiving.

1,677,297. AUTOMOBILE HOISTING DEVICE. RUDOLPH ROTHER, Tamaqua, Pa. Filed Sept. 15, 1925. Serial No. 56,475. 2 Claims. (Cl. 254—86.)

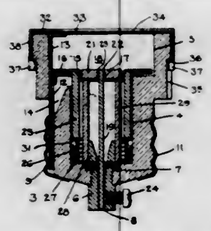
1. In a structure of the class described, a frame adapted to be supported transversely across the intermediate portion of a motor vehicle chassis, a motor ar-

ranged on the frame, the drive shaft of said motor extending longitudinally of the frame in the intermediate portion thereof, a pair of aligned longitudinally extending jack operating driven shafts arranged on one side of the drive shaft, an additional pair of longitudinally extending aligned jack operating driven shafts arranged on the opposite side of the drive shaft, bearings for the inner



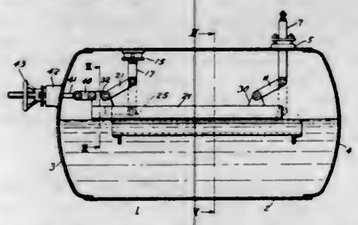
opposed ends of each pair of driven shafts, a gear keyed on the inner end portion of each of said driven shafts, gears slidable on the drive shaft for selective engagement with the gears on the driven shaft whereby any one of said jack operating driven shafts will be actuated or any pair of said shafts, and means for effecting the reverse rotation of said shaft.

1,677,298. THERMAL PLUG CUT-OUT. MAURITS J. SANDIN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 23, 1923. Serial No. 614,379. 12 Claims. (Cl. 200—123.)



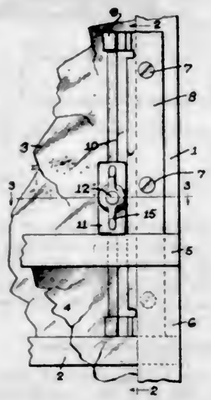
1. A cutout for electric circuits comprising a pair of terminal members, and a composite renewable thermal-responsive connector comprising a metal conductor disc for conductively and releasably engaging one of the terminal members and a conductor of relatively high-resistance metal joined thereto by a metal fusible at a relatively low temperature releasably and conductively connected to the other terminal.

1,677,299. ELECTRIC STEAM BOILER. STEPHAN SCHNEIDER, Meissen, Saxony, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 4, 1927, Serial No. 172,751, and in Germany Mar. 4, 1926. 3 Claims. (Cl. 219—40.)



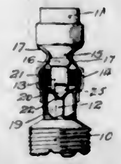
1. In an electric steam boiler, a plurality of electrodes within said boiler, means for pivotally suspending said electrodes from the top of said boiler, means extending through an end wall of said boiler for effecting vertical movement of said electrodes, and means, including said pivoted suspending means, for conducting electric current to said electrodes.

1,677,300. SASH FASTENER. SAMUEL SEGAL, New York, N. Y., assignor to Segal Lock & Hardware Co. Inc., New York, N. Y., a Corporation of New York. Filed Sept. 4, 1924. Serial No. 735,727. 9 Claims. (Cl. 292—305.)



1. In a device of the character described, a support carried by a member and provided with a sharp edge, a fastening device having an opening provided with a rounded wall through which opening said support extends, said fastening device being adapted to engage a second member, to prevent movement thereof in one direction, supplemental fastening means associated with said fastening device and provided with an opening therein having a rounded wall and means for actuating said fastening device whereby the sharp edge of said support will engage the rounded wall of the opening in said fastening device and whereby the sharp edge of said support will also engage the rounded wall of the opening in said supplemental fastening means.

1,677,301. TIRE DEFLATER. EMIEL P. SEGHERS, Chicago, Ill. Filed Oct. 2, 1922. Serial No. 591,733. 2 Claims. (Cl. 152—12.)

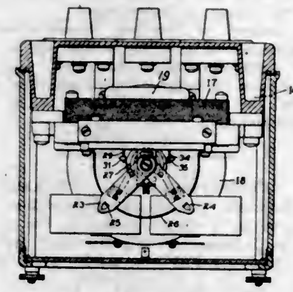


1. A tire deflater comprising a shell threaded at one end for engaging a pneumatic valve and having spring clips at the opposite end thereof for engaging a valve stem wrench on a valve cap.

1,677,302. RELAY. HARVEY P. SLEEPER, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 3, 1923. Serial No. 616,755. 4 Claims. (Cl. 175—338.)

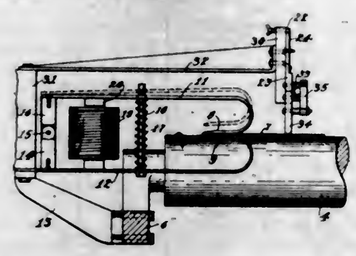
1. In an electric relay, the combination with a movable member movable in response to an electric force provided

with a laterally extending portion, a spring fixed at one end and a stop, the free end of the spring engaging the



stop to maintain a predetermined tension in the spring and disposed in the path of the laterally extending portion of the movable member to be engaged thereby.

1,677,303. SELVAGE-OPENING DEVICE. HARRY C. SMITH, Arlington, Mass., assignor to Blake Electric Mfg. Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 2, 1924. Serial No. 735,325. 12 Claims. (Cl. 26—54.)



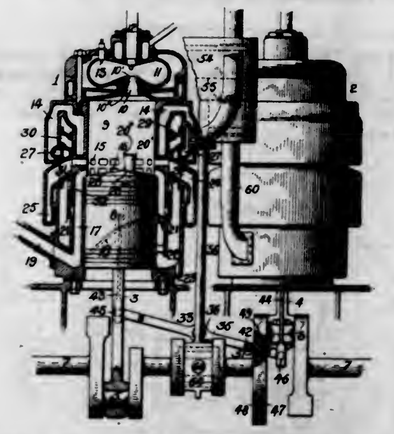
1. A means for automatically opening the selvages of cloth comprising a blade located close to the surface of a traveling web of cloth and arranged with its outer extremity near the edge of such web, combined with means for withdrawing said blade from the cloth when a seam in the cloth passes by.

1,677,304. GAS-PURIFICATION PROCESS. FREDERICK W. SPERR, Jr., Pittsburgh, Pa., assignor to The Koppers Company, a Corporation of Pennsylvania. Filed Dec. 31, 1926. Serial No. 158,424. 8 Claims. (Cl. 23—3.)

1. The process of regenerating a liquid previously used for purifying gas from acidic impurities which comprises subjecting it to the action of air in the presence of hemicellulose.

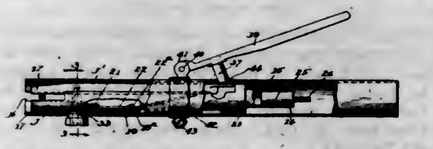
1,677,305. TWO-CYCLE SUPERCHARGING COMBUSTION ENGINE. ELMER A. SPERRY, Brooklyn, N. Y., assignor to The Sperry Development Company, Brooklyn, N. Y., a Corporation of Delaware. Original application filed Aug. 5, 1922, Serial No. 579,863. Divided and this application filed Oct. 7, 1924. Serial No. 742,093. 20 Claims. (Cl. 123—69.)

7. A combustion engine comprising in combination a cylinder, a piston, an open air chamber, an exhaust passage, a source of fluid under low pressure, a source of fluid under high pressure, a port for said cylinder controlled at one end by said piston and positioned to be opened as the piston descends, a second port in communication with said source of low pressure fluid controlled by said piston positioned to be opened after the first mentioned port is opened, a third port connecting said source of low pressure fluid to the open chamber, and a sliding valve arranged to reciprocate oppositely to said piston having a port to connect the first mentioned port to the exhaust passage when the second mentioned port is open, a port to connect the first mentioned port to the high pressure fluid source when the second



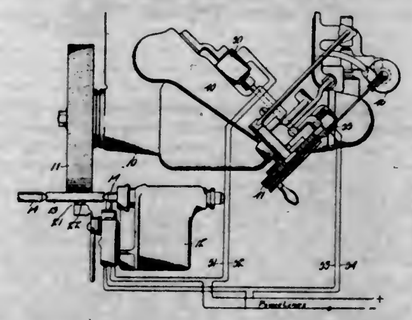
mentioned port is closed, a port connecting said low pressure fluid source to the open chamber when the second mentioned port is closed in which position the high pressure fluid source is also connected to said open chamber.

1,677,306. ELECTRIC WELDING TONGS. CLIFTON L. STANCLIFF, Bakersfield, Calif. Filed June 15, 1927. Serial No. 199,029. 8 Claims. (Cl. 219—8.)



1. A pair of welding tongs comprising a casing of insulating material, jaws wholly within the casing, and means exteriorly of the casing and insulated from the jaws for actuating the latter.

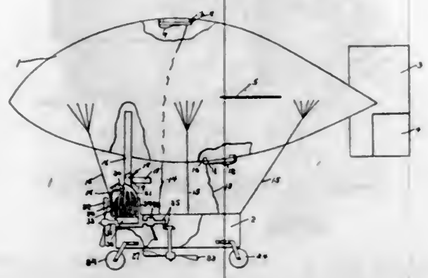
1,677,307. AUTOMATIC SIZING DEVICE FOR GRINDING MACHINES. AMOS P. STEINER, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed May 7, 1925. Serial No. 28,719. 11 Claims. (Cl. 51—165.)



1. In a grinding machine, a wheel, a rotary work-holder, a diameter gage having an arm swingable on a pivot parallel to the axes of the wheel and the work-

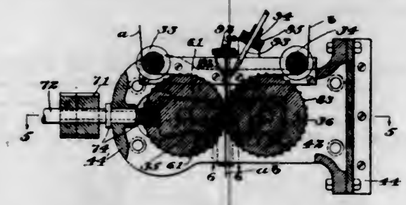
holder said arm being longer than the distance between its pivot and the unfinished work and being biased to move past said work, means for retracting a work center to release the work, and connections therefrom to move the gage into idle position remote from the work, substantially as set forth.

1,677,308. METHOD OF INFLATING AND DRIVING AN AERIAL MACHINE AND MEANS THEREFOR. CHARLES LAWRENCE STOKES, Los Angeles, Calif. Filed July 14, 1925. Serial No. 43,606. 9 Claims. (Cl. 244—6.)



1. The method of inflating a balloon which consists in forcing therein the heated gases from a multi-cylinder engine, part of the gases being burnt in one or more of the cylinders and the balance of the gases being burnt between the engine and the balloon.

1,677,309. REGISTERING AND CEMENTING CINEMATOGRAPHIC FILMS. LEONARD T. TROLAND, Malden, and JOSEPH A. BALL, Wollaston, Mass., assignors, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass., a Corporation of Maine. Filed Sept. 15, 1921. Serial No. 500,842. 55 Claims. (Cl. 154—42.)



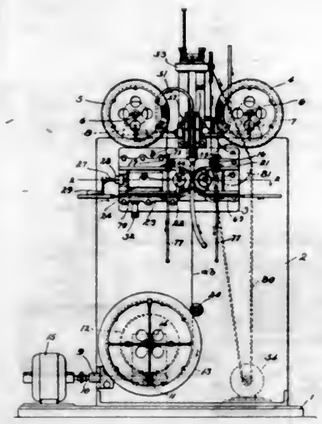
1. Apparatus for bringing cinematographic strips into registered juxtaposition which comprises means for advancing the strips in juxtaposed relationship and means for registering the strips including registering pins recurrently entering the sprocket holes of the strips from opposite sides.

5. Apparatus for bringing cinematographic strips having sprocket holes into registered juxtaposition and subjecting them to pressure comprising means engageable with the sprocket holes in the strips for registering the latter and controlled by the strips, and means for applying pressure to said strips intermediate successive sprocket hole engaging means.

6. Apparatus for sticking two cinematographic strips together comprising means for continuously advancing the strips into registered contact, means for supplying a measured minute supply of liquid to the contacting surfaces of the strips, and means for positively actuating said two means in synchronism.

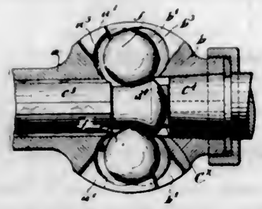
54. The method of treating cinematographic strips which comprises continuously feeding the strip, pumping liquid upon said strip in synchronism with the feeding operation to apply a uniformly thin coating of liquid upon the strip and then pressing the strip against another strip.

1,677,310. CINEMATOGRAPHIC APPARATUS. LEONARD T. TROLAND, Malden, Mass., assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass., a Corporation of Maine. Filed Jan. 6, 1925. Serial No. 836. 17 Claims. (Cl. 154—42.)



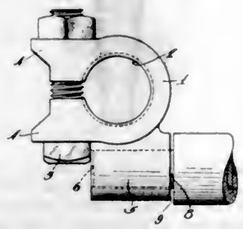
1. Cinematographic apparatus comprising juxtaposed pressure rolls, means for conducting a plurality of cinematographic strips between said rolls, and a distributor adjacent the region where the strips contact in yieldable contact with each of said rolls for applying liquid to said strips.

1,677,311. UNIVERSAL JOINT. CARL W. WEISS, Brooklyn, N. Y. Filed Feb. 18, 1927. Serial No. 169,151. 3 Claims. (Cl. 64—91.)



1. A universal joint having two members capable of relative angular displacement and having co-acting portions with their proximate faces formed with non-concentric grooves, two diametrically opposed movable bodies received partly in each of such grooves and through which force is transmitted from one co-acting portion to the other, and a circular abutment forming a bearing for said movable bodies to prevent relative displacement thereof in a radial plane.

1,677,312. BATTERY CONNECTER. JESSEE M. WHITE, Philadelphia, Pa. Filed Mar. 2, 1926. Serial No. 91,682. 3 Claims. (Cl. 173—259.1.)



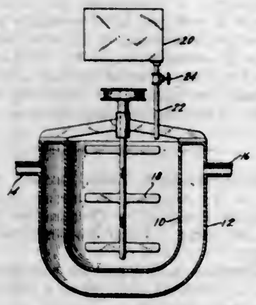
1. A battery connecter including a clamp; a bolt passing through the ends of the clamp; a sleeve, having a longitudinal slit, formed integral with the clamp; one end of the sleeve engaging the head of the bolt, and the sleeve so positioned that the bolt head partly obstructs one end of the passage through the sleeve.

1,677,313. ELECTRIC HEATING UNIT. JAMES C. WOODSON, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 23, 1925. Serial No. 38,979. 3 Claims. (Cl. 201—63.)



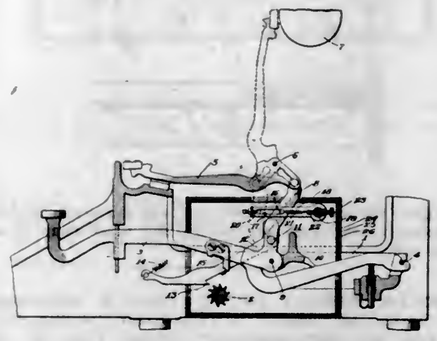
3. An electric heating unit comprising a skeleton metal frame having a plurality of spaced open grooves therein, bars of refractory electric-insulating material, having spaced, laterally-extending grooves in one face, located in said grooves, cooperating bars of refractory electric-insulating material having laterally-extending grooves in one face located on said first bars with the grooves thereon in alined positions, a resistor member extending through said bars and therebetween, and means for clamping said cooperating bars together.

1,677,314. PROCESS FOR MAKING COLD SWELLING STARCH. EUGENE WULKAN, Vienna, Austria, assignor to Haberland Manufacturing Company, Allwood, N. J., a Corporation of New Jersey. Filed Aug. 12, 1924. Serial No. 731,557. Renewed Dec. 7, 1927. 7 Claims. (Cl. 127—33.)



5. A method for the preparation of cold swelling starch, which comprises heating a mass of starch to a temperature at which cold swelling starch would be formed in the presence of water, introducing a reacting liquid in small individual drops or particles into the starch mass whereby individual paste balls are formed as distinguished from mass formation of paste, and thereafter drying the individual paste balls.

1,677,315. TYPEWRITER. CONRAD D. YOUNGBERG, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Jan. 2, 1925. Serial No. 30. 9 Claims. (Cl. 197—17.)



1. In a typewriter, a movable member, a bar having a slot extending longitudinally thereof, a stop on said member arranged to travel in said slot, and a spring for retarding the movement of said stop in said slot.

1,677,316. PHOTOELECTRIC CELL. VLADIMIR K. ZWORYKIN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 13, 1925. Serial No. 43,220. 4 Claims. (Cl. 250—27.5.)

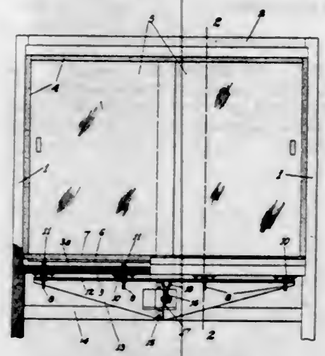


4. In a photo-electric device, an evacuated envelope having a press and an inwardly projecting skirt surrounding said press, a cathode and a control electrode mounted on said press within the envelope, a second control electrode mounted on said skirt within said envelope, a conductive photo-sensitive material coating and a portion of the inner surface of said envelope and the surface of said skirt farthest from said press, a conductive connection between said coating and the second control electrode, a second press and an anode supported thereby.

1,677,317. SLIDING-WINDOW HOLDER. RICHARD M. AHRENS, Oakland, Calif., assignor to California Transit Company, Oakland, Calif., a Corporation of California. Filed Oct. 11, 1926. Serial No. 140,760. Renewed June 1, 1928. 5 Claims. (Cl. 292—256.)

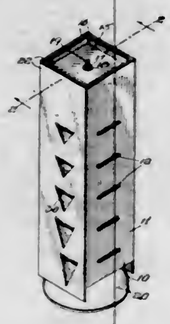
1. A sliding window holder comprising a frame structure to receive a pane for horizontal sliding movement, guides for the horizontal edges of the pane, a rigid strip mounted in the frame extending lengthwise of and on which one of said guides is mounted, said strip being

movable to and from the adjacent edge of the pane, yieldable means applied to the strip at different points in its length and acting automatically and independently



to force the strip toward the pane, and a control member applied to the strip for moving the same away from the pane.

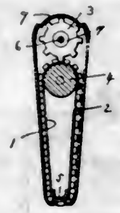
1,677,318. DISPLAY DEVICE. HARRY S. ALEXANDER, Chicago, Ill., assignor to Tater-Flakes Company, Chicago, Ill., a Corporation of Illinois. Filed Jan 2, 1926. Serial No. 78,761. 2 Claims. (Cl. 211—58.)



1. In a device of the character described, a vertical support of sheet material provided with a plurality of horizontal slots arranged in a vertical series, and a mounting board having a plurality of tongues extending therefrom and engaging through said slots, one of said tongues having an element normally disposed beneath the upper wall of its cooperating slot and coacting therewith to prevent casual removal of the board from the support.

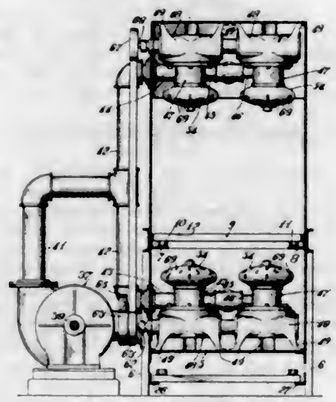
1,677,319. CHANGEABLE-LETTER DEVICE. JOHAN KARL KRISTIAN ANDERSEN, Brooklyn, N. Y. Filed May 7, 1927. Serial No. 189,595. 3 Claims. (Cl. 701—111.)

1. In a changeable device, in combination, a shaft, a plurality of toothed discs mounted loosely on said shaft, spacing means on the shaft and between the discs, a cylinder in parallelism with the shaft, a guide member spaced from the cylinder and convexed on its outer side, a plurality of side by side endless flexible bands on said cylinder and guide member and each having a plurality of spaced projections adapted to cooperate with the teeth of a disc and to bear letters, numerals, or other characters, and a casing comprising a top wall concavo-convex in cross section, end walls supporting said shaft, cylinder and guide member, and side walls having arms pivotally connected to said shaft and also having means for detachably holding them to the end walls and further having inwardly directed edge portions adapted to rest at opposite sides of a row of projections on the endless



band to expose said projections and to cooperate with the projections in preventing casual movement of the bands, one of the side walls when swung to open position affording access to the toothed disc for adjustment purposes.

1,677,320. WASHING MACHINE. GEORGE P. ANSTISS, Oak Park, Ill., assignor to G. S. Blakeslee & Co., Cicero, Ill., a Corporation of Illinois. Filed Oct. 30, 1923. Serial No. 671,738. 3 Claims. (Cl. 141—1.)

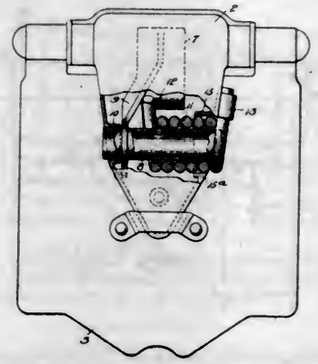


1. In a washing machine, the combination with a washing compartment having means therein for supporting the articles to be washed, of water distributing members arranged oppositely to each other, respectively above and below said supporting means, each of said distributing members comprising a stationary base having a water passage therein, a rotating head revolubly supported by said base and communicating with said water passage, said head having perforations for the discharge of water therefrom, and means mounted on the base operable to rotate said head, and means for supplying water to the water passages of said distributing members.

1,677,321. JOURNAL-BOX LID. DONALD S. BARROWS, Rochester, N. Y., assignor, by mesne assignments, to The Symington Company, a Corporation of Maryland. Filed Feb. 20, 1924. Serial No. 693,986. 9 Claims. (Cl. 308—47.)

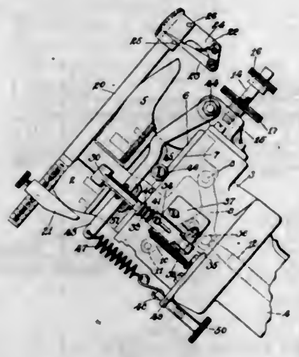
1. The combination with a journal box having a hinged lid, of means maintaining said lid in a plurality of positions, said means including a lug on the journal box having a plurality of faces, a lever provided with a portion adapted to cooperate with said surfaces and another portion forming a pivot, a torsion spring mounted on

the pivot portion of said lever and having one end operable against said lever and the other end pressing outwardly on said lid, and bearings provided on the lid



adapted to respectively support one end of the pivot portion of the lever and surround a portion of the torsion spring at the other end of the pivot member.

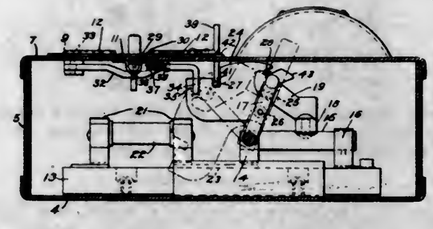
1,677,322. MACHINE FOR OPERATING ON SHOES. ARTHUR BATES, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 23, 1921, Serial No. 524,422, and in Great Britain Mar. 2, 1921. 23 Claims. (Cl. 12—51.)



1. A boot or shoe shaping or stretching machine comprising, in combination, an expansible form, means yieldingly to expand the form lengthwise of a shoe, and a stop for positively limiting the extent of expansion by said means, the stop and expanding means being constructed and arranged for preliminary relative adjustment to vary the extent of expansion allowed by the stop according to the size of shoe.

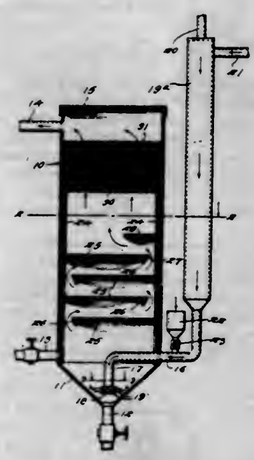
1,677,323. SWITCH MECHANISM. HAROLD G. BAXTER, Baldwin, N. Y., and HUBERT K. KRANTZ, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 25, 1921. Serial No. 464,168. 2 Claims. (Cl. 200—50.)

2. In combination, a switch box having a movable cover, a latch for said cover and interlock members connected to said cover and said latch, a switch having a plate member movable therewith, said plate member having a plurality of recesses therein, certain of which register with the cover interlock member in both the open



and the closed position of the switch and one of which registers with the latch interlock member in the open position only of the switch.

1,677,324. GASOLINE CLARIFIER. ARLIE C. BECK and ALVIE S. MORNINGSTAR, Bentonville, Ark. Filed Oct. 21, 1926. Serial No. 143,201. 1 Claim. (Cl. 210—44.)

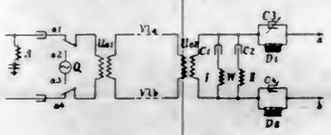


A gasoline clarifier comprising a casing having a funnel-shaped bottom wall, a filter disposed across the upper part of the casing, a conduit pipe passing through the side of the casing, and having an end extension disposed co-axial with relation to the funnel-shaped wall of the casing, a distributing head located in the funnel-shaped wall of the casing and attached to the extension of said conduit, radially disposed nozzles carried by the head, a vertically disposed stack for supplying gasoline to the conduit, said stack having its upper portion disposed above the level of the filter, and means for supplying an alkali to the conduit between the stack and the casing.

1,677,325. TELEPHONE SYSTEM. HANS VON BECKERATH, Berlin, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Filed Apr. 30, 1927, Serial No. 187,812, and in Germany Nov. 25, 1926. 3 Claims. (Cl. 179—16.)

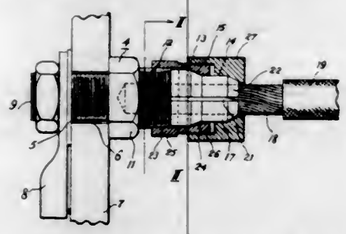
1. In a telephone system, a trunk line, means for transmitting alternating current impulses over said trunk line, an alternating current relay bridged across said

trunk line at the distant end for receiving said impulses and for repeating them to a switching device for extending the trunk line, a blocking circuit inserted in each



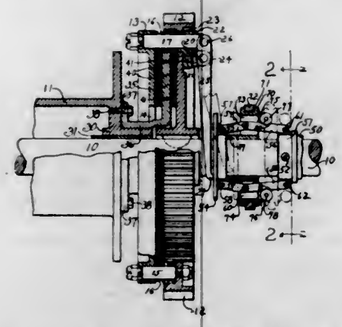
trunk conductor between the said relay and said switching device, and means for tuning each blocking circuit to the frequency of said alternating current.

1,677,326. CONNECTER. DUDLEY A. BOWEN, New York, N. Y. Filed Sept. 28, 1923. Serial No. 665,371. 6 Claims. (Cl. 173—303.)



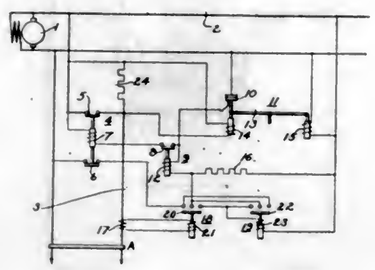
1. The combination with a connecter for a rod-like member, said connecter having a tubular socket member for receiving the said member and provided with movable clamping jaws, of plural cooperating means adjustably connected to the socket member and independently operable for engaging the same clamping jaws at different points axially thereof and for moving them into clamping engagement with the said rod-like member.

1,677,327. CLUTCH MECHANISM AND CONTROL THEREFOR. MERRILL I. BRADLEY, Detroit, Mich., assignor to Universal Power Shovel Company, Highland Park, Mich., a Corporation of Michigan. Filed Jan. 24, 1927. Serial No. 162,964. 5 Claims. (Cl. 192—99.)



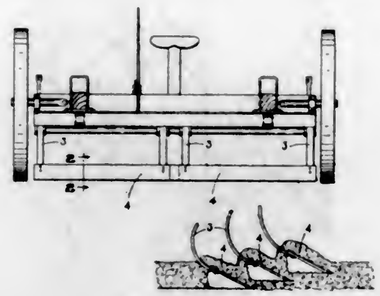
1. In combination, a shaft having a collar slidable thereon, links pivoted to said collar, a collar fixed on the shaft, other links pivoted to the first ones and to said fixed collar, all said links being extended at an angle to the axis of the shaft, means for varying the angles of the links to thereby vary the span of the same and slide the first collar on the shaft, clutch operating levers operable by the movement of the sliding collar, and means for limiting the variation of the angles of said links comprising a part carried by the first mentioned means adapted to engage said slidable collar.

1,677,328. AUTOMATIC RECLOSING CIRCUIT INTERRUPTER. CHARLES A. BUTCHER, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 25, 1921. Serial No. 464,268. 5 Claims. (Cl. 175—294.)



1. An automatically reclosing circuit-interrupting device comprising means for connecting two circuit conductors, an operating coil therefor, a switch in circuit with the coil, and means for controlling the switch comprising a resistor connected directly across the terminals of the interrupting device and means responsive to the potential difference thereacross when the switch is open.

1,677,329. CULTIVATOR. PAUL CANTIN, Eastburg, Alberta, Canada. Filed Mar. 11, 1927. Serial No. 174,674. 1 Claim. (Cl. 27—144.1.)

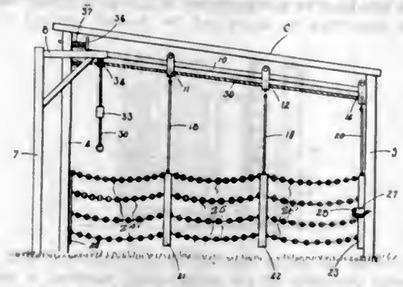


A cultivator provided with a frame; sets of curved legs extending downwardly from a common support carried from said frame; the lower ends of the legs of each set being in transverse alignment; cutting blades attached to said lower ends of the legs of each set and the length and curvature of the legs of each succeeding set being greater than the preceding set.

1,677,330. GATE CONSTRUCTION. CARL ARVID CARLSON, Edmonton, Alberta, Canada. Filed Sept. 9, 1927. Serial No. 218,485. 1 Claim. (Cl. 39—86.)

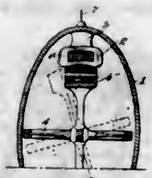
A gate comprising uprights suitably braced at their upper ends; an inclined track supported between the upper ends of said uprights; hangers reciprocally mounted on said track; cables extending through said hangers and one end secured to the outer one of said hangers; the said cables extending through pulleys supported on one of said uprights adjacent the upper end of said track; brackets supported on uprights spaced equidistant from said last mentioned upright; pulleys supported from

each of said brackets; the ends of said respective cables extending through these respective pulleys and suspending downwardly therefrom; suspension member supported



from said hangers; gate uprights supported from the lower end of said suspension members and flexible connection means between said gate uprights.

1,677,331. GYROSCOPIC APPARATUS. ALEXANDER CHESSIN, New York, N. Y. Filed Dec. 23, 1919. Serial No. 346,921. 19 Claims. (Cl. 33—204.)



1. A gyroscopic compass comprising a frame suspended for rotation about a vertical axis, a gyroscope mounted in said frame to tilt about a horizontal axis, and means to spin said gyroscope, which means exert a torque on the gyroscope about said horizontal axis to resist the tilting thereof.

16. An apparatus comprising a frame mounted for rotation about an axis, and an electric motor, the stator of said motor being attached to said frame, and the rotor being mounted therein to tilt relatively to said stator.

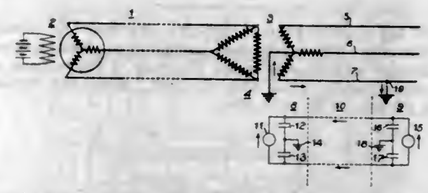
1,677,332. LINER FOR ELECTRICAL CONNECTERS. MARTIN M. CLAYTON, Baden, Pa., assignor to National Metal Molding Company, a Corporation of Pennsylvania. Filed June 7, 1926. Serial No. 114,099. 1 Claim. (Cl. 247—25.)



The combination with an electrical connecter having a hollow cylindrical portion adapted to receive a conductor and a radial slot in its side wall, of a liner arranged between the conductor and the inner wall of the connecter and having a lug projecting laterally through said slot and bent into binding engagement with the outer wall of the connecter.

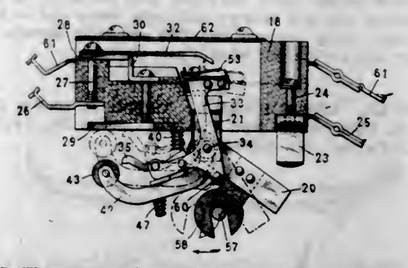
1,677,333. ELECTRICAL PROTECTIVE SYSTEM. CHARLES LE G. FORTESCUE and ROBERT D. EVANS, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 29, 1922. Serial No. 591,269. 2 Claims. (Cl. 175—30.)

1. The combination with a two-conductor telephone circuit subject to induced voltage disturbances, of an acoustic-shock preventing means comprising two similar autovalve arresters, one of said arresters being connected between each conductor and ground, each of said autovalve arresters being characterized by having two



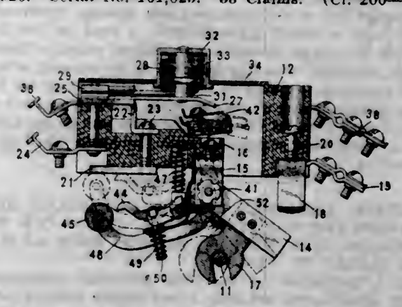
high-resistance plates spaced by a gap of the order of 3 mils in air, the resistivity of said plates being sufficiently high to prevent concentration of the brush discharge into an arc during ordinarily expectable induced voltage disturbances.

1,677,334. THERMOSTATIC OVERLOAD SWITCH. BENJAMIN E. GETCHELL, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed Apr. 10, 1926. Serial No. 101,024. 15 Claims. (Cl. 200—3.)



15. The combination with a manually operable main switch, of an auxiliary protective switch, together with appurtenant contacts for said switches, a thermostatic latch to hold said auxiliary switch in an inactive position on normal load conditions and to release said auxiliary switch on a predetermined overload and means of connection between said switches whereby the circuit may be opened by the opening movement of either of said switches and whereby the said auxiliary switch may be moved to closed position by the opening movement of said manually operable switch.

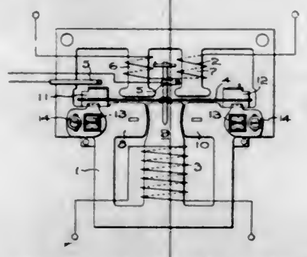
1,677,335. AUTOMATIC ELECTRIC SWITCH. BENJAMIN E. GETCHELL, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed Apr. 10, 1926. Serial No. 101,025. 33 Claims. (Cl. 200—88.)



1. The combination with a quick break switch of a thermally bendable element for latching said switch in closed position and a magnetically operable release device

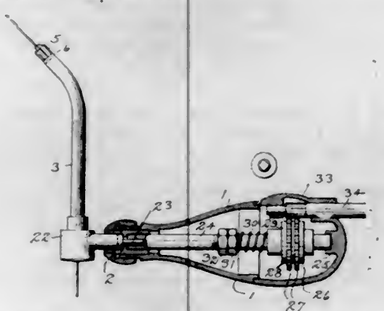
having a coil in an electrical circuit with said element and having an armature directly associated with said element and cooperating therewith to release said switch on excessive overload in the circuit.

1,677,336. INDUCTION RELAY. SHIRLEY L. GOLDSBOROUGH, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corpoartion of Pennsylvania. Filed May 25, 1925. Serial No. 32,544. 6 Claims. (Cl. 175—338.)



1. An induction relay comprising a magnetizable core member having upper and lower pole pieces, a movable armature disposed between said pole pieces and a magnetizable shunt for said armature extending between an upper and a lower one of said pole pieces.

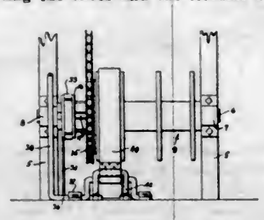
1,677,337. ANTRUM DRILL. THOMAS E. GROVE, Dayton, Ohio. Filed Sept. 27, 1924. Serial No. 740,314. 22 Claims. (Cl. 128—305.)



1. In a surgical drill for entering the maxillary antrum through the nares or the like, the combination with a mounting including a revoluble drive shaft, of a tubular cannula laterally bent adjacent to its extremity, a revoluble cutting burr mounted in the end of the bent portion of the cannula, the cannula being shaped and proportioned to follow the burr into any passage traversed by such burr, a shank for said burr, a head on the inner end of the shank having a plurality of radially disposed teeth, a spindle revolubly mounted in the cannula with its axis angularly disposed in relation with that of the burr, said spindle having at its extremity teeth operatively connected with those of the burr, the other end of the spindle being operatively engageable with the power shaft of the mounting.

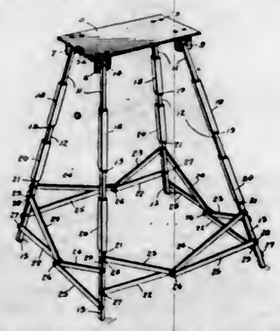
1,677,338. COMBINED CLUTCH AND BRAKE MECHANISM FOR HOISTING DRUMS. SAMUEL OTIS HALE, Whittier, Calif. Filed May 23, 1925. Serial No. 32,340. 2 Claims. (Cl. 192—17.)

1. A mechanism of the class described comprising a shaft mounted for rotation, a reel rigidly secured to said shaft for rotation therewith, said reel provided on one side with a brake drum, a sleeve having a plurality of keyways loosely mounted on said shaft, a driving gear secured to said sleeve having a circular flange projecting from one of its faces, a shifting collar provided with keys engaging the keyways on said sleeve, a plurality of segmental clutch shoes arranged on the periphery of the gear flange, toggle links connecting the shoes and the circular shifting collar



for forcing the shoes into frictional engagement with the internal periphery of the brake drum, whereby to rotate the drum, a brake band enaging the brake drum, means engaging the shifting collar to actuate the brake shoes, and a single lever mechanism for operating the clutch and brake mechanisms alternately.

1,677,339. POCKET FOLDING STOOL. THEODORE N. HANSEN, Seattle, Wash. Filed Dec. 15, 1926. Serial No. 154,933. 1 Claim. (Cl. 155—151.)

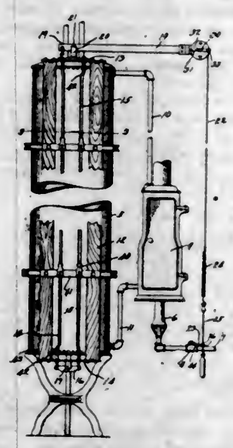


A pocket folding stool comprising a seat, four depending lugs for the seat having inverted keyhole slots, four legs each comprising three foldable sections pivotally connected, slidable sleeves adapted to hold said sections in rigid set-up position, the uppermost of said sections having square bolts adapted to fit snugly within the upper rectangular portions of said keyhole slots in the set-up position, means for locking said bolts in said rectangular slot portions, said bolts adapted to be shifted to pivotal disposition within the lower round portions of said slots, four K-braces each comprising four pivotally connected members, the end of one member of each of said K-braces pivotally secured to the lowermost of each of said leg sections, means for fastening the ends of the other three brace members to the two adjoining lowermost leg sections in the set-up position, each of said K-braces adapted to be folded in compact alignment against its associated leg section, a casing for the stool in its folded position, and the seat arranged to serve as the bottom of the casing in the folded position.

1,677,340. THERMOSTATIC REGULATOR. CLARENCE H. HAPGOOD, Toledo, Ohio, assignor, by mesne assignments, to The C. H. C. Co., Toledo, Ohio, a Corporation of Ohio. Filed May 2, 1925. Serial No. 27,358. 11 Claims. (Cl. 236—33.)

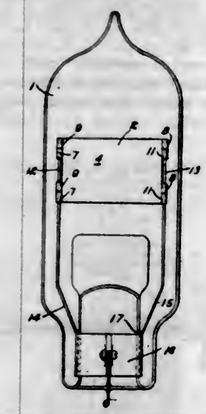
1. The combination with a reservoir adapted to contain heated liquid, a burner aranged to supply heat to the liquid, and a valve for controlling the admission of fuel to the burner, of thermostatic means for controlling the valve comprising a substantially non-expansible frame

adapted to be clamped around the exterior of the reservoir, metallic rods mounted upon the frame, connecting levers pivoted on the frame and arranged to transmit the expansive and contractive movements of one rod to



its next adjacent rod, a multiplying lever fulcrumed upon the frame and arranged to be actuated by the movements of said rods, and operative connections between the multiplying lever and said valve for opening or closing the valve in accordance with the movements of said lever.

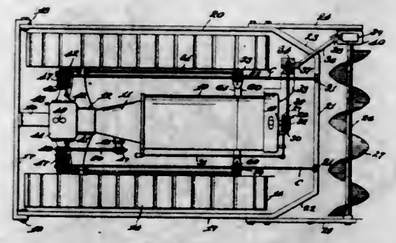
1,677,341. ELECTRODE FOR EVACUATED ELECTRIC DEVICES. PAUL M. HENGSTENBERG, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 7, 1921. Serial No. 506,157. 4 Claims. (Cl. 250—27.5.)



1. In an evacuated electric device, an electrode comprising a plurality of sheet-metal plate members and means, including pivot pins, whereby the opposite edges of one member may be hinge-connected to the corresponding edges of another member, said pivot pins also serving as supporting rods for said electrode.

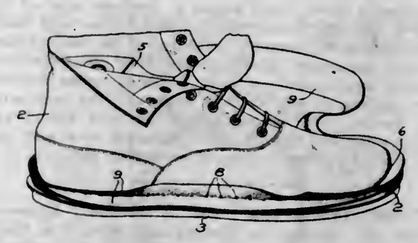
1,677,342. BACK FILLER FOR DITCHES. JAMES H. HODGEN, Los Angeles, Calif. Filed May 4, 1927. Serial No. 188,706. 4 Claims. (Cl. 37—144.)

1. The combination with a tractor having a power take-off crank shaft and differential housing, of a crossbar attached to said differential housing, a frame pivoted to said cross-bar, an auxiliary transmission assembly mounted on said differential housing, a drum comprising an element of said assembly, a cable attached to said



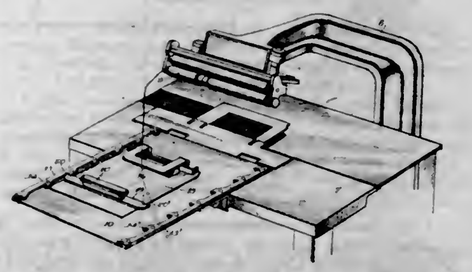
frame and extending around said drum, and a screw conveyor mounted for rotation on said frame, and means for rotating said drum from said power take-off.

1,677,343. STITCH-DOWN SHOE AND PROCESS OF MAKING SAME. ROBERT E. HOWLETT, Malden, Mass. Filed Nov. 18, 1924. Serial No. 750,568. 7 Claims. (Cl. 36—16.)



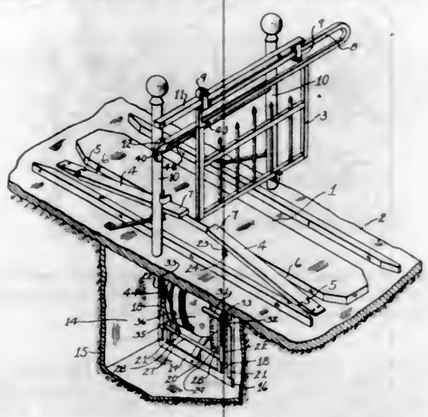
1. A stitch down shoe comprising an insole, an upper having an outturned marginal portion lying on the margin of the insole, a folded welt on said outturned margin of the upper, a series of staples securing the welt, upper and insole together, said staples engaging the welt between the folds thereof and being clinched on the lower surface of the insole, and an outsole secured to said welt.

1,677,344. ADDRESSING MACHINE. HENRY E. HUBBARD, Chicago, Ill., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 18, 1926. Serial No. 142,178. 5 Claims. (Cl. 101—47.)



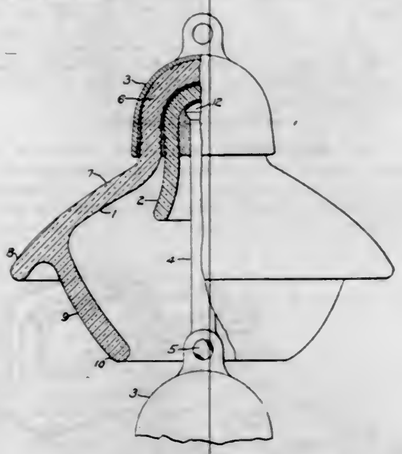
1. An attachment for addressing machines comprising a supporting plate, a cord plate narrower than the supporting plate and movable unrestrictedly on the supporting plate between the side margins thereof, means for registering the card plate in a progressively advanced position on the supporting plate, and means on the card plate for holding a card blank.

1,677,345. AUTOMATIC VEHICLE GATE. ALFRED L. HUGHES, Colorado Springs, Colo. Filed Aug. 29, 1927. Serial No. 216,039. 2 Claims. (Cl. 39—18.)



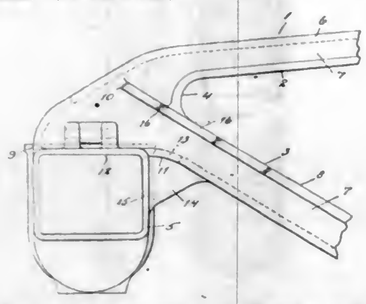
2. In combination with a vehicle gate slidabaly mounted across a drive, tread boards at opposite sides of the gate at one end thereof and adapted for vertical movement; means for normally maintaining the tread boards in their uppermost position; rack bars connected with the said tread boards; a shaft journaled across the rack bars; pinions on said shaft in mesh with the rack bars; gate opening and closing pulleys on said shaft; and gate opening and closing cables mounted over said pulleys and operatively connected with said gate.

1,677,346. INSULATOR. RAY P. JACKSON, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 2, 1922. Serial No. 591,736. 3 Claims. (Cl. 173—318.)



1. An insulator comprising an insulating member including a head, a portion having an annular water-shed surface diverging from the lower end of the head and a lower portion having an annular creepage surface of relatively great length and area sloping inwardly and downwardly from a position closely adjacent to the outer perimeter of said water-shed surface in such position as to receive driving rain directly, said water-shed surface portion projecting only slightly beyond the upper end of said lower portion to provide a water-drip portion preventing the passage of a continuous stream of water along the water-shed and creepage surfaces but permitting the washing of the major portion of said creepage surface by driving rains.

1,677,347. SIDE FRAME. BYERS W. KADEL, Baltimore, Md., assignor to The Symington Company, New York, N. Y., a Corporation of Maryland. Filed June 2, 1925. Serial No. 34,422. Renewed Dec. 19, 1927. 15 Claims. (Cl. 105—205.)

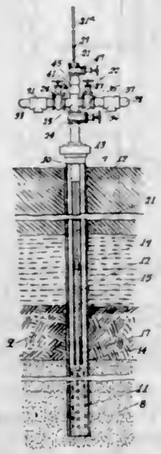


1. A car truck side frame comprising a compression member and a tension member, said members converging at their ends and united together, and the junction between said members being reinforced by flanges from the sides of the tension member extending in line with the top of said member and merging into the side of the compression member below the upper edge thereof.

1,677,348. PROCESS OF TREATING STARCH. JULIUS KANTOROWICZ, Breslau, Germany, assignor to William H. Fain, Greenwich, Conn. Filed Aug. 16, 1921, Serial No. 492,799, and in Germany May 31, 1918. Renewed Dec. 7, 1927. 8 Claims. (Cl. 127—33.)

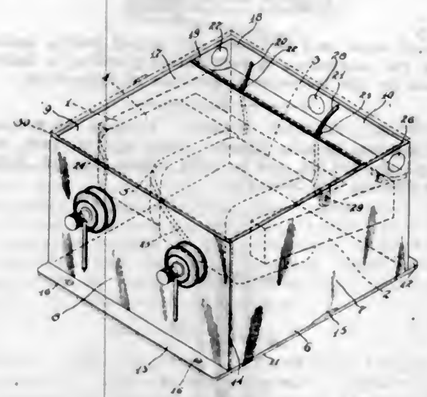
1. The process of preventing the formation of lumps when starch which swells in cold water is added thereto, which consists in adding cold water to a mixture of a starch which swells in cold water and a substance which retards such swelling.

1,677,349. APPARATUS FOR LIFTING OIL IN OIL WELLS. THEOPHILUS KALLMEYER, Wilmington, Calif. Filed May 29, 1924. Serial No. 716,697. 4 Claims. (Cl. 166—1.)



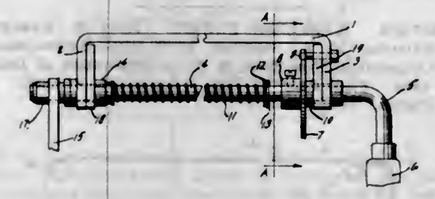
3. In an oil production apparatus the combination of a stationary tube, a pipe open at the bottom and closed at the top slidably disposed within said tube, means closing the lower end of the tube about said pipe, said pipe being provided with an opening above said closing means and a second opening near the upper end, means for forcing a fluid into said tube to displace the circulatory fluid therein and force the same through said pipe upwardly and out through the opening at the upper end of said tube.

1,677,350. CASING FOR ELECTRICAL APPARATUS. ARTHUR C. KLECKNER, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a Corporation of Wisconsin. Filed Aug. 26, 1926. Serial No. 131,562. 3 Claims. (Cl. 247—9.)



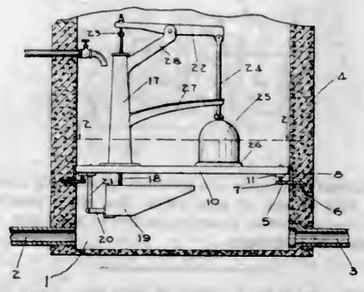
1. In a casing for electrical apparatus, having certain plane sides at right angles, a main chamber for said apparatus having an open face and a secondary chamber in said casing for enclosing electrical connections, said secondary chamber being formed by a partition extending at right angles to certain opposite walls and diagonally from another wall to the plane of said open face, said secondary chamber having openings for the passage of electrical conductors through said partition and through an exterior wall of said secondary chamber.

1,677,351. AUTOMOBILE SIGNALING DEVICE. ISAAC G. KRIEGER, Lodi, Calif. Filed May 10, 1927. Serial No. 190,183. 3 Claims. (Cl. 116—52.)



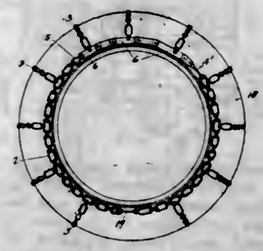
1. In a vehicle signal, a one-piece U-shaped bracket having arms and a connecting portion capable of attachment to the frame of a vehicle, a shaft rotatably and slidably mounted in the arms of said bracket, a coil spring under compression on said shaft, a notched disk fixed to said shaft adjacent to one of the bracket arms, a pin on the adjacent arm in position to normally engage one of the notches in the disk, a semaphore on one end of said shaft, means for holding the semaphore and shaft against relative movement, and a handle at the other end of said shaft for operating the latter, said disk being moved relatively to said pin during the adjustment of said signal.

1,677,352. AUTOMATIC SEWER FLUSHER. CHARLES R. LION, Los Angeles, Calif. Filed June 20, 1927. Serial No. 200,034. 3 Claims. (Cl. 182—5.)



1. In a sewer flusher, a frame having an internal flange, a floor having straps secured thereto on the under surface, adjusting bolts extending through said straps and resting on the flange, and a flushing mechanism on the floor.

1,677,353. ANTISKID DEVICE. ROYAL E. MARTIN, Mansfield, Ohio. Filed Oct. 4, 1927. Serial No. 223,920. 1 Claim. (Cl. 152—14.)



In an anti-skid device, side chains, cross chains connecting the side chains, and a member forming part of the length of one of the side chains, said member including a series of movably interconnected parts adapted for relative folding in one direction, said members being formed to prevent relative movement in the opposite direction beyond a line conforming substantially to the curvature of the tire, whereby the member when in operative relation defines a curved member rigid in one direction and relatively foldable in the opposite direction.

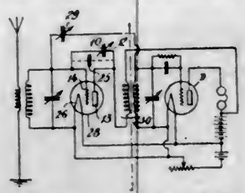
1,677,354. BONDING METAL. FREDERICK C. MATHISON, Chicago, Ill., assignor of one-third to Casper L. Redfield, Chicago, Ill. Filed Sept. 2, 1924. Serial No. 735,517. 2 Claims. (Cl. 22—204.)

1. The process of bonding a bearing metal having a lead base to an iron or steel body, which consists in depositing a coating of copper on said body, in applying a film of tin on said copper, and in using the babbitting process to deposit the body of bearing metal on the tinned face.

1,677,355. ELECTRON-DISCHARGE DEVICE. WILLIAM A. MACDONALD, Little Neck, N. Y., assignor to Hazeltine Corporation, Jersey City, N. J., a Corporation of Delaware. Original application filed Apr. 9, 1926. Serial No. 100,826. Divided and this application filed June 21, 1927. Serial No. 200,391. 8 Claims. (Cl. 179—171.)

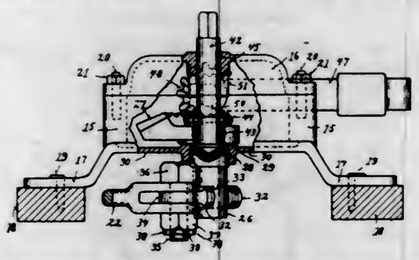
1. An amplifying system embodying a plurality of vacuum tubes, each of said tubes having a grid and a plate between which inherent capacity exists, an input

circuit connected to the grid and an output circuit connected to the plate of each tube, a condenser supplementing said inherent capacity connected in parallel thereto,



and a second condenser, one terminal of which is connected to the grid of one of said tubes, the other terminal of said second condenser being connected to the input circuit of another of said tubes.

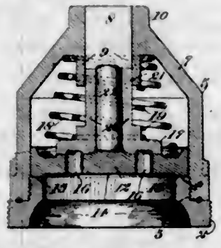
1,677,356. RAILWAY-SWITCH STAND. JOHN T. MCGARRY, Cincinnati, Ohio, assignor to The American Valve and Meter Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 11, 1927. Serial No. 182,933. 4 Claims. (Cl. 246—411.)



1. A railway switch stand comprising a switch stand housing, a vertically disposed shaft having a gear segment formed integral therewith and having a transverse threaded perforation in its lower end, said vertically disposed shaft being journaled to said switch stand at a point intermediate of said gear segment and said perforation with its lower end projecting downwardly from the bottom of said housing, a crank arm located below said housing threaded into and rotatably adjustable relative to the perforation in said vertically disposed shaft, a connecting rod having one end thereof forked and adapted to operatively connect the free end of said crank arm to a switch, a connecting bolt adapted to pivotally and detachably connect the forked end of said connecting rod to the free end of said crank arm, the relations of said crank arm, said switch stand housing, said connecting rod and said connecting bolt being such that the assembled connecting rod crank arm and bolt can only be rocked relative to said housing a fraction of a revolution from a substantially horizontal to a substantially vertical position, and said bolt can only be inserted from one direction in a substantially horizontal position to connect said connecting rod to said crank arm, and when rocked to a vertical position and said connecting rod connected operatively to a switch, said connecting bolt is prevented by said housing from being withdrawn from its position relative to said connecting rod and crank arm.

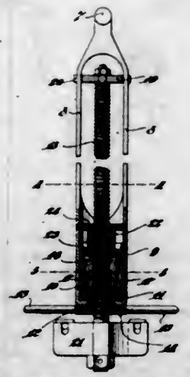
1,677,357. VALVE. ALEXANDER MCGREGOR, Burlingame, Calif. Filed May 16, 1924. Serial No. 713,827. 2 Claims. (Cl. 277—44.)

2. A doubly guided double valve comprising in combination with a metallic seat, of a metallic faced disc valve having a stem and a port, a second metallic faced disc valve arranged to overlie said port and having a tubular stem slidably receiving the stem of the first valve, independent spring means normally operating each valve to seated position, and a cage having peripheral guiding means for the periphery of the first valve, and a central guiding means for the tubular stem of the



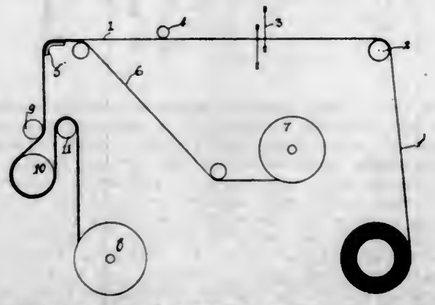
second valve, said peripheral and central guiding means and the cooperation of both valves providing a double guide for the independent operation of each valve.

1,677,358. TEMPER SCREW. LAMBERT MCKILLOP, Capetown, Ontario, Canada. Filed Apr. 15, 1927, Serial No. 184,158, and in Great Britain Apr. 19, 1926. 6 Claims. (Cl. 255—15.)



6. In a device of the kind described, a tapered screw-engaging nut comprising two axially divided halves, a bowl internally tapered, a suspension means therefor, antifriction bearings in the suspension means upon which the bowl can rotate, combined spring and anti-friction bearing means urging the nut halves into the bowl in order to rotate therewith, and keys between the nut parts and bowl to prevent relative rotation therebetween.

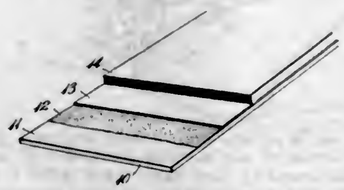
1,677,359. WEFTLESS FABRIC. FRED B. MANLEY, Paterson, N. J., assignor to Textiles Development Corporation, New York, N. Y., a Corporation of Delaware. Filed July 2, 1923. Serial No. 648,860. 3 Claims. (Cl. 28—32.)



1. The method of preparing weftless fabric which comprises, passing a plurality of parallel strands free

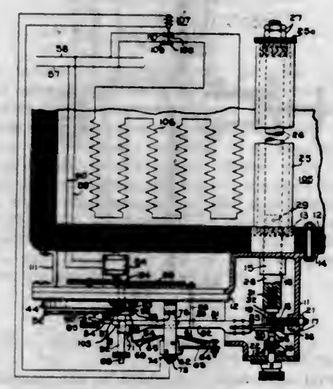
of filling over the breast beam of a loom, simultaneously passing a strip of cloth over the breast beam, and uniting the cloth and strands into a roll.

1,677,360. COMPOSITE PRODUCT AND METHOD OF MAKING SAME. ALLAN B. MERRILL, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed June 13, 1927. Serial No. 198,694. 5 Claims. (Cl. 18—59.)



1. In the art of making composite products of rubber and metal, the process which comprises coating the metal with a tough heat plastic isomer of rubber, superposing a sulfur-containing rubber composition on the coated metal with an intervening barrier layer of a composition adapted to inhibit migration of sulphur therethrough from the sulfur-containing rubber composition to the metal, and subjecting the assembled product to vulcanization temperatures.

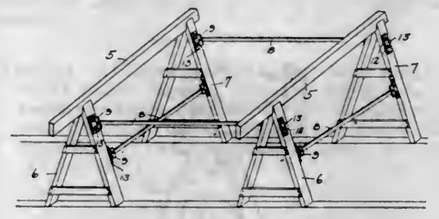
1,677,361. TEMPERATURE TIME-CONTROL DEVICE. AUGUST J. MOTTLAU, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 28, 1927. Serial No. 187,284. 16 Claims. (Cl. 236—46.)



1. A time-temperature control device comprising a switch, switch-actuating means, a thermostat for actuating said means and time controlled means for rendering the actuating means operative during a certain portion of its travel and inoperative during another portion of said travel, said portions being effective for intervals of time proportional to the total time required for the completion of one cycle of said travel.

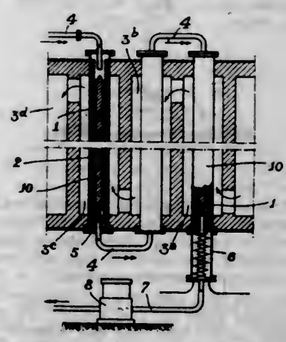
1,677,362. PORTABLE BLEACHER. HENRY D. OBERDORFER, Champaign, Ill. Filed Jan. 31, 1925. Serial No. 6,005. 3 Claims. (Cl. 304—1.)

3. In a portable stand structure, a pair of spaced supporting jacks each having pairs of opposite angularly disposed legs, the opposite legs of the jacks being inclined away from each other, and means for bracing and spacing the jacks apart comprising projec-



tions at the outer sides of the opposite legs, and a cross bar with slots at the ends of the bar to engage the projections.

1,677,363. PROCESS OF TREATING METHANE GAS. GEORGES OLIVIER, Asnieres, France, assignor to Societe Anonyme le Petrole Synthetique, Asnieres, France. Filed June 3, 1926, Serial No. 113,554, and in France Feb. 3, 1926. 6 Claims. (Cl. 260—170.)



1. A process of converting methane gas into hydrocarbons of higher carbon content, consisting in gradually heating a thin stream of methane to a temperature not exceeding 950° C. which will form ethylene and ethylenic compounds, subjecting the products formed to a vacuum, and suddenly and completely cooling said products down to atmospheric temperature.

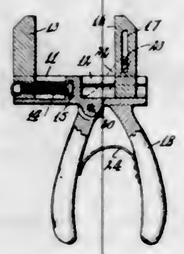
1,677,364. METHOD OF TREATING FISH. DAVID D. PEEBLES, Eureka, Calif. Filed Sept. 7, 1927. Serial No. 217,968. 5 Claims. (Cl. 99—11.)

5. A method of treating raw fish after it has been cleaned and washed which consists in perforating the fish, passing the fish through a zone where it is subjected to sufficient heat to dry off the wash water and partially dry and harden the skin, then subjecting the fish to a broiling action to shrink the fish, further set the skin, broil the flesh, and partially render the oil, and then subjecting the fish to a cooling action.

1,677,365. ADJUSTABLE PLIERS. EDWARD PECK, New York, N. Y. Filed Nov. 2, 1927. Serial No. 230,428. 6 Claims. (Cl. 294—42.)

1. An adjustable plier comprising a jaw body having a groove at one end and a second groove at the other end, a jaw slidably arranged in the first groove, means for holding the jaw in adjusted positions, a second jaw

slidably arranged in the second groove, and formed with an elongated slot, a plier handle firmly connected with the jaw body, a second handle pivotally connected with



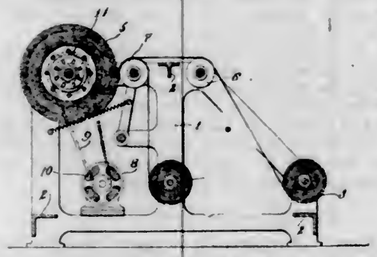
the jaw body, and a pin engaged in the said elongated slot, and secured to the top end of the second mentioned handle.

1,677,366. PLASTERER'S FLOAT. JOSEPH W. PICKERING, Topeka, Kans. Filed Mar. 15, 1926. Serial No. 94,834. 1 Claim. (Cl. 72—136.)



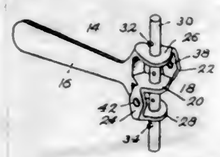
In a float, a base having laterally extending sides, pins laterally extending inward and positioned near both ends of the laterally extending sides, blades having sharp edges and laterally positioned springs adjacent the ends thereof, a curvature centrally positioned on the springs in which the pins will seat, and a curvature on the outwardly extending ends of the springs as free sliding means therefor on the base, the said member adapted to engage with the said pins at the ends of the float as tensioning and holding means for a carpet stretched on the plane of the base.

1,677,367. CLOTH SPONGING AND SHRINKING MACHINE. MARTIN E. POPKIN, Baltimore, Md., assignor of one-half to J. Schoeneman, Incorporated, Baltimore, Md., a Corporation of Maryland. Filed Aug. 16, 1927. Serial No. 213,262. 9 Claims. (Cl. 26—50.)



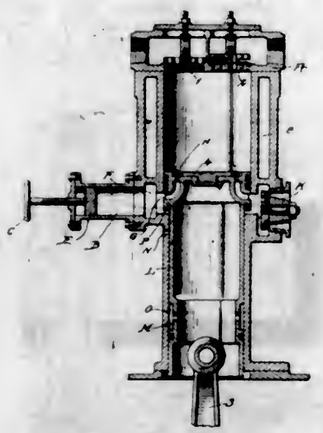
1. The combination in a sponging and shrinking machine of a steaming cylinder, means for rotating the same, a leader and means for feeding the cloth and leader to the cylinder, a cylinder comprising walls of rigid porous material, the pores being open at the outer and inner surfaces of the walls.

1,677,368. TOP AND SPINNER THEREFOR. FRANK X. RENETZKY, Kansas City, Mo. Filed June 20, 1927. Serial No. 200,059. 3 Claims. (Cl. 46—32.)



1. A top, a primary tubular shaft projecting from the upper portion of said top and provided with a slot, a reversible secondary shaft either end of which is adapted to enter said primary shaft, elements projecting from said secondary shaft and either of which is adapted to enter said slot, a support for the secondary shaft, and two cords attached to said secondary shaft and either of which may be wound thereon while the other is unwound therefrom to effect rotation of said secondary shaft and the spinning of the top.

1,677,369. FLUID COMPRESSOR. EDWARD A. RIX, Oakland, Calif. Filed June 13, 1927. Serial No. 198,391. 10 Claims. (Cl. 230—183.)



1. A fluid compressor comprising in combination a cylinder and a piston in said cylinder dividing the same into a main compression chamber and an auxiliary compression chamber, said piston being operable during the major portion of the extension stroke to compress fluid in the auxiliary chamber and discharge the same into the main chamber, only at or near the beginning of the compression stroke and means for varying the pressure of the fluid in the auxiliary chamber.

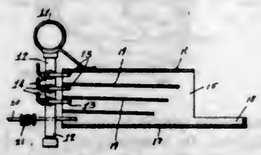
1,677,370. FOOTBALL SHOE. EDWARD E. ROEWADE, Chicago, Ill., assignor to Wright & Ditson-Victor Co., New York, N. Y., a Corporation of Massachusetts. Filed Oct. 25, 1926. Serial No. 143,830. 2 Claims. (Cl. 36—77.)

1. A kicking shoe having a square toed sole, a stiffener reinforcing the upper at the end only of the toe, the top of the toe portion of the shoe being soft, said reinforced end of the toe portion of the upper following the



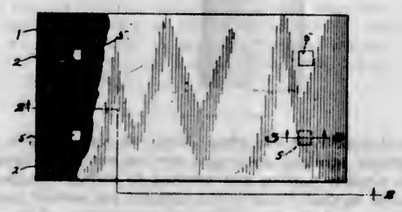
contour of the toe part of the sole, and a cap covering the portions of the upper at the toe and the outer side of the foot substantially to the shank.

1,677,371. OIL BURNER. ELWOOD WILLIAM ROTHER, Indianapolis, Ind. Filed Dec. 10, 1926. Serial No. 153,904. 3 Claims. (Cl. 158—91.)



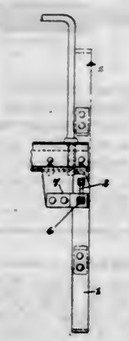
1. A burner of the character described including a tubular casing having an open end from which flames are adapted to discharge, a plurality of superposed plates in said casing, each extending in substantially the same direction and forming a plurality of superposed passageways therebetween and in the casing, each superposed plate projecting beyond the end of the next lower plate at the flame discharge end of the passageways, a fuel supply for each passageway and discharging therein at the opposite end thereof, said casing and plates at said opposite and fuel supply end of the passageways being arranged for the admission of air thereto.

1,677,372. SHEET RUBBER. BERNARD A. RUHLING, Elkhart, Ind. Filed May 18, 1927. Serial No. 191,234. 2 Claims. (Cl. 20—7.)



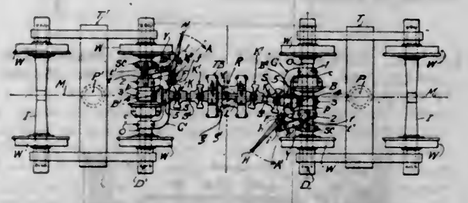
1. As a new article of manufacture, a solid sheet of rubber having wire netting embedded in its interior and provided with polygonal interstices, and a fastener member embedded in said sheet of rubber and projecting to the exterior thereof, said fastener member having a polygonal shank engaging in one of the netting interstices.

1,677,373. ADJUSTABLE SILL STEP FOR RAILWAY DUMP CARS. ALFRED C. SCHMOHL, Beaver Falls, Pa., assignor to Koppel Industrial Car and Equipment Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 2, 1927. Serial No. 195,903. 5 Claims. (Cl. 105—443.)



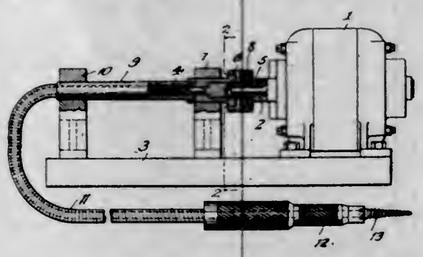
1. In a dump car, an adjustable sill step composed of vertical and transverse members, said step being fulcrumed at one end to permit swinging upwardly and outwardly to a clearance position and integral means on said step and car for automatically securing said step in clearance position.

1,677,374. MEANS FOR CONTROLLING THE DRIVING GEAR OF LOCOMOTIVE CRANES. HENRY G. STEINBRENNER, Cleveland, Ohio, assignor, by mesne assignments, to Industrial Brownhoist Corporation, a Corporation of Ohio. Filed Aug. 6, 1927. Serial No. 211,135. 2 Claims. (Cl. 105—117.)



1. In combination with the driven axle of the truck of a locomotive crane, a bracket-like part, or casting, slidably connected at its ends to the same, a bevel-bear fixedly mounted on the axle between the points of said connection, with its face, or teeth, fronting toward the median line of the truck, a journal, in line with and jointedly coupled to the power-transmission shaft of the crane, extending through and within said bracket-like part in bearing contact with the same and in front of the bevel-gear, a bevel-pinion adapted to mesh with said gear, fixedly mounted on said journal, and means for reciprocating said part along said axle to an extent to carry said pinion in or out of mesh engagement with said bevel-gear, substantially as shown and described.

1,677,375. METAL-FINISHING MACHINE. OSBORNE F. TAPLEY, New York, N. Y. Filed Mar. 24, 1927. Serial No. 178,116. 4 Claims. (Cl. 64—12.)



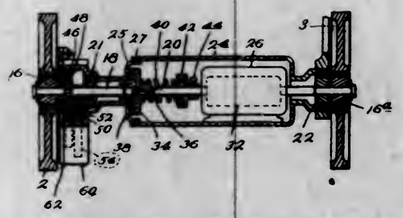
1. In a metal finishing machine, a base, a motor secured to one end thereof, spaced bearing supports mounted on said base one adjacent said motor and one removed therefrom, a flexible shaft operatively connected to said motor and passing through said supports and a rigid tube surrounding said shaft between said supports and rigidly connected thereto.

1,677,376. WIRE COUPLER. JOHN ZILLIOX, Orchard Park, N. Y., assignor to Park Metalware Company, Orchard Park, N. Y., a Corporation of New York. Filed Oct. 22, 1925. Serial No. 64,283. 3 Claims. (Cl. 287—49.)



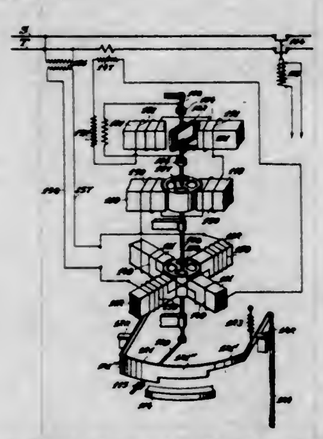
1. A wire coupler comprising a tie rod, an inner clamping plate mounted on the central part of said tie rod and adapted to be engaged on its opposite sides by the inner sides of wires to be coupled, outer clamping plates independent of the inner clamping plate mounted on said tie rod and adapted to engage with the outer sides of the wires to be coupled, and screw means for pressing said outer clamping plates toward opposite sides of said inner clamping plate, said tie rod being constructed of bendable material.

1,677,377. LAWN MOWER. WILLIAM H. ADKINS, Kansas City, Mo. Filed Dec. 6, 1926. Serial No. 152,886. 1 Claim. (Cl. 56—26.)



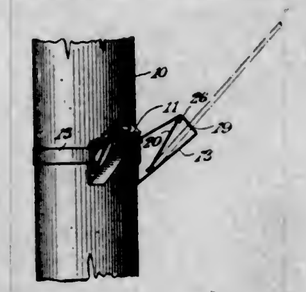
In combination with a lawn-mower equipped with a frame, a cutter, and carrier wheels, a gear case secured to one side of said frame, a horizontally disposed tubular housing exteading transversely across the lawn-mower and secured at one end to the frame and at its opposite end to said gear case, a motor provided with a shaft journaled in said housing and extending freely through the hub of one of the carrier wheels, a shaft section arranged in axial alinement with the motor shaft and journaled in said housing, said shaft section extending freely through the hub of another carrier wheel, means through which the motor shaft drives said shaft section, and gearing in the gear case and through which said shaft section drives the cutter.

1,677,378. DEVICE FOR INDICATING THE QUOTIENT OF TWO ELECTRICAL QUANTITIES. DIETER ALBRECHT, Berlin, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Oct. 20, 1926, Serial No. 142,877, and in Germany July 4, 1925. 5 Claims. (Cl. 171—95.)



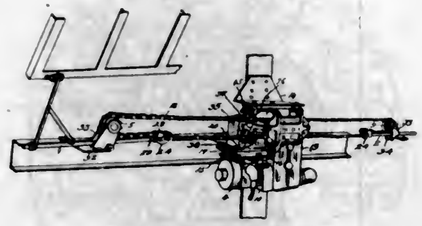
1. In a device for determining the quotient of two physicial quantities, in combination, a pointer spindle, driving means adapted to set said pointer spindle according to the quotient of two electric currents, a hollow drum of metal connected with said pointer spindle, and an electromagnet adapted to generate eddy currents in the said hollow drum, said electromagnet being energized in proportion to the value of one of said electric currents.

1,677,379. FLAG HOLDER AND SUPPORT THEREFOR. LOUIS ANNIN AMES, New York, N. Y. Filed July 1, 1927. Serial No. 202,804. 3 Claims. (Cl. 248—37.)



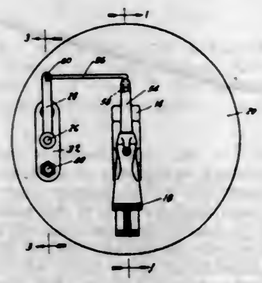
1. A holder of the class described comprising a substantially straight portion, a portion extending back on said straight portion and adapted to clamp a supported member against the straight portion, the second portion having a slot for the partial accommodation of the supported member, and a portion connecting the aforesaid portions, said portion having an opening through which the supported member extends.

1,677,380. SASH-OPERATING MECHANISM. GUSTAF IVAR BARCLAY, Detroit, Mich., assignor to Detroit Steel Products Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 6, 1926. Serial No. 152,977. 16 Claims. (Cl. 268—19.)



1. In sash operating mechanism, the combination with a motor operatively connected to a sash, of a switch for controlling the operation of said motor and an adjustable and yieldably movable device carried by the connection between the motor and sash dependent upon the operation of said motor for actuating said switch.

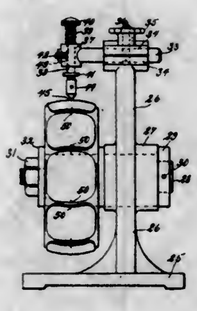
1,677,381. BRAKE-OPERATING MEANS. VINCENT BENDIX, Chicago, Ill., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 8, 1927. Serial No. 159,807. 12 Claims. (Cl. 188—194.)



1. Retarding mechanism for a swivelled wheel comprising, in combination, a brake swivelling with the wheel, an applying device for the brake, a support for the applying device which is shiftable in a direction paralleling the swivelling axis of the wheel to permit the applying device to center itself, and brake-operating mechanism including a joint substantially in said swivelling axis when the brake is applied, to permit swivelling of the wheel, and acting on the applying device substantially at right angles to the direction the support is shiftable, so that the application of the brake does not tend to shift the support.

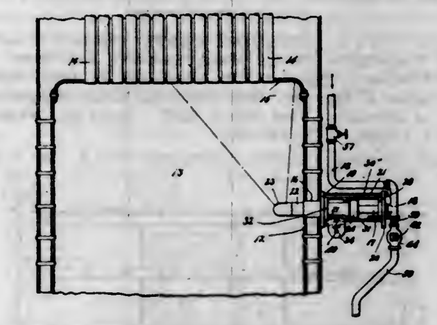
1,677,382. PROCESS OF MAKING AND MARKING TORIC AND LIKE LENSES. LUCIAN BUGBEE, Indianapolis, Ind., assignor, by mesne assignments, to Continental Optical Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 24, 1925. Serial No. 71,257. 3 Claims. (Cl. 51—278.)

1. The process of making and marking toric and like lenses, which process consists in securing a lens blank on a lens holder, grinding the blank into a lens by forming a toric surface thereon, marking the said lens while still on the holder with an axis mark coinciding with



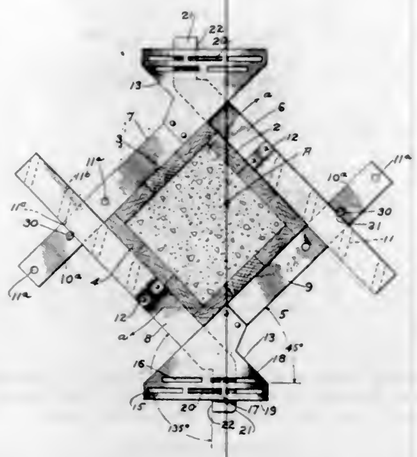
the equatorial line of the said toric surface as indicated by the equatorical line of the holder, and then removing the lens from the holder on which it was ground.

1,677,383. SOOT BLOWER FOR STEAM BOILERS. CHARLES A. CLAFLIN, Medford, Mass., assignor to Superior Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 5, 1921. Serial No. 505,505. 15 Claims. (Cl. 122—391.)



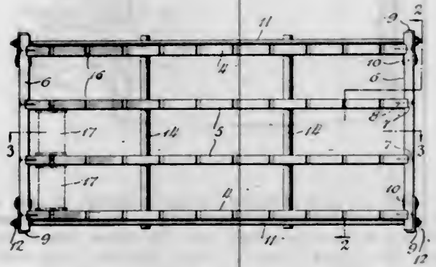
1. For use with a boiler having a passage in one of its walls, a soot-blower comprising a supporting frame attached to and projecting from the boiler wall at the outer end of said passage; a fixed internally unobstructed conduit terminal, connected with a source of steam supply, and attached to said frame; a movable nozzle surrounding a portion of said terminal, and adapted to rotate and move endwise on the terminal in said passage, said nozzle having a lateral jet-emitting outlet, and projecting inward from the terminal, the fixed terminal being located within the nozzle, so that a portion of the bore of the nozzle constitutes an enlarged extension of the bore of the fixed terminal, and another portion of the nozzle bore cooperates with the external surface of the terminal in forming a close joint, a portion of the external surface of the nozzle being exposed in said frame; and manually operable nozzle-operating mechanism, associated with the exposed external portion of the nozzle, and including means for moving the nozzle endwise to project and retract it, and means for turning the nozzle on the fixed terminal, to vary the angular direction of the emitted jet.

1,677,384. FORM CLAMP. JAMES F. COSTELLO, San Francisco, Calif. Filed May 11, 1925. Serial No. 29,300. 5 Claims. (Cl. 144—291.)



1. In a clamp of the character described, a clamping section comprising a pair of arms adapted to be connected at one end, and means at the connected ends of the arms for maintaining the arms at right-angles to each other, said means permitting a free spreading movement of the arms at the connected point in the opposite direction.

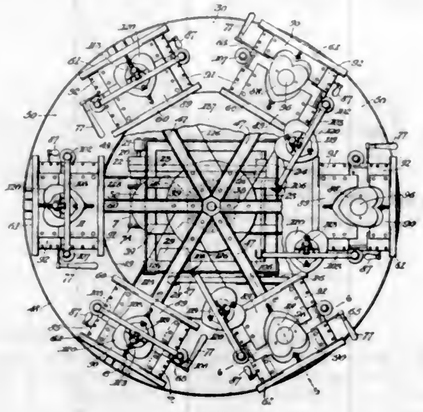
1,677,385. STEAMING CRATE. PETER DAUGERT, Wilkes-Barre, HENRY FREY, Kingston, and JOHN J. DUNLEAVY, Plymouth, Pa., assignors to Hess, Goldsmith & Co., Inc., New York, N. Y., a Corporation of Delaware. Filed May 5, 1927. Serial No. 188,967. 5 Claims. (Cl. 28—58.)



1. A steaming crate for use in treating threads wound upon bobbins, including a framework consisting of outer and intermediate spaced longitudinal members upon which a plurality of bobbins are adapted to be supported, the intermediate members being of greater length than the outer members, end members joining adjacent extremities of said longitudinal members, and tie rods connecting the extremities of said end members.

1,677,386. AUTOMATICALLY-OPERATING PAPER-BOX SHAPING AND FINISHING MACHINE. IRVING A. DELINE, Denver, Colo. Filed May 16, 1927. Serial No. 191,784. 12 Claims. (Cl. 93—55.)

12. In mechanism of the character described, the combination with parallel track members, of cooperating dies slidably mounted on said track members, a support and a form thereon between said dies, a rotatable element on said support, means connecting said dies



and said rotatable element, whereby when said element is turned said dies are drawn toward said form, and resilient means for normally forcing said dies apart.

1,677,387. COMBINATION PENCIL CONTAINER AND LEAD MAGAZINE. ALONZO F. GAIDOS, Oakland, Calif. Filed May 18, 1926. Serial No. 109,848. 2 Claims. (Cl. 120—9.)

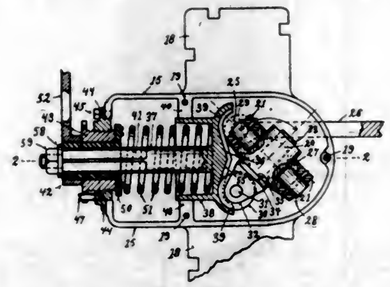


1. A device of the class described, comprising an elongated container terminating in a tapered perforated end portion and open at the opposite end to receive a pencil, and permitting the lead of the pencil to project through the perforated tapered end, a shell secured within the container in spaced relation with the walls thereof and terminating at its front end at the tapered end portion, the rear end of the container being extended beyond the shell, and a cap fitting within the extension of the container and closing the space between the shell and the container for confining lead therein, said cap having an opening in alignment with the shell to permit the pencil to be passed through the cap and the shell without removing the cap from the container.

1,677,388. AUTOMATIC SWITCH STAND. WALLACE M. GRAY, Cincinnati, Ohio, assignor to The American Valve and Meter Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 3, 1927. Serial No. 158,538. 5 Claims. (Cl. 246—411.)

1. An automatic switch stand comprising a casing, a vertical shaft journaled to said casing and operatively connected to actuate a switch, a horizontal shaft journaled to said casing and movable endwise relative to said casing, means to resiliently tension said horizontal shaft against movement in one direction endwise, means to positively limit the movement of said horizontal shaft endwise in the opposite direction, a cam carried by said horizontal shaft, a rocker arm pivotally attached to said vertical shaft upon an axle transversely to said vertical shaft, a cam roller carried by said rocker arm

and held resiliently in engagement with the cam of said horizontal shaft, whereby said vertical shaft may be actuated through the switch by a locomotive to shift

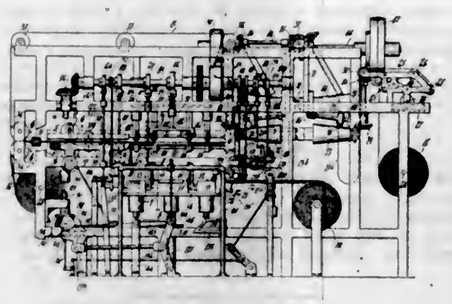


the switch to open position independently of rotation of said horizontal shaft, and whereby said vertical shaft may be manually actuated to shift the switch in either direction through rotation of said horizontal shaft.

1,677,389. CYLINDER-OIL COMPOSITION AND METHOD OF PREPARING SAME. RAYMOND T. HOWES, Wilmington, Calif., assignor to Pan American Petroleum Company, Los Angeles, Calif., a Corporation of California. Filed Jan. 5, 1927. Serial No. 159,244. 1 Claim. (Cl. 87—9.)

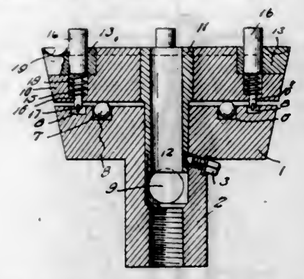
A process of reducing the surface tension of cylinder oil made from California crude petroleum stock, for use in hydrostatic sight-feed lubricators, which consists in mixing with the cylinder oil approxmately two and one half per centum of Turkey red oil.

1,677,390. MACHINE FOR MAKING COVERED BOXES. ALBERT F. JONES, Salem, Mass.; Mabel J. Downs executrix of Albert F. Jones, deceased. Filed Oct. 22, 1926. Serial No. 143,403. 14 Claims. (Cl. 93—40.)



14. In a machine for making covered boxes comprising means for making a blank having mitred notches in one edge, a longitudinal crease extending across the apexes of the notches and transverse creases extending from the notches across the blank, means for partially bending said blank on two of the transverse creases, said means including a fixed table, and a reciprocating head having bending rolls adapted to bend portions of the blank across the table, and means for bending the blank on the other transverse creases, the last-mentioned means including oscillatory jaws adapted to remove the partially bent blank from the table, a form arranged to receive the blank from said jaws, and mechanism cooperating with the form in completing the bending of the blank.

1,677,391. FLOWERPOT-BASE FORMER. JOSEPH KELSO, Bellevue, Iowa, assignor to Joseph R. Frailey, Fort Madison, Iowa. Filed Sept. 17, 1927. Serial No. 220,213. 6 Claims. (Cl. 25—22.)

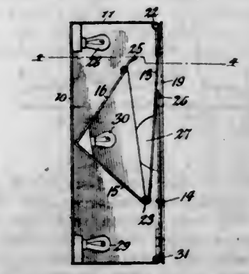


1. A base former for forming the base of a flower pot blank with a plurality of drain openings therethrough and adapted for association with the mold and core structure for forming the body thereof, a stationary base, a rotatable plate adapted to rotate upon said stationary base, and projecting construction associated with the top of said rotatable plate for forming openings in the base of a flower pot blank.

1,677,392. WATER-SOLUBLE ORGANIC COMPOUND OF ARSENIC AND PROCESS OF PRODUCING IT. MORRIS S. KHARASCH, College Park, Ind. Filed Jan. 22, 1927. Serial No. 162,925. 34 Claims. (Cl. 260—14.)

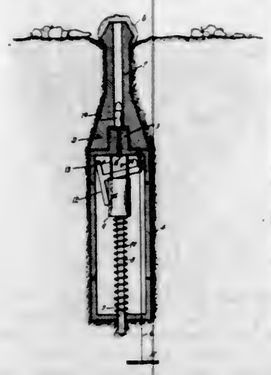
1. The step in the method of producing water-soluble compounds of organic arsenious compounds, which comprises treating, in a solvent, an arsenious compound in which at least one valence bond of the arsenic is attached to an inorganic radical of other than the sulphur family (sulphur, selenium, and tellurium) and at least one valence bond of the arsenic is directly attached to a carbon atom of an organic radical, with an organic compound containing both an acid radical and a sulfhydryl group and having the sulfhydryl group directly attached to a carbon atom.

1,677,393. BATH CABINET. ROBERT J. KIDENEY, Buffalo, N. Y. Filed Oct. 2, 1926. Serial No. 139,186. 3 Claims. (Cl. 174—87.)



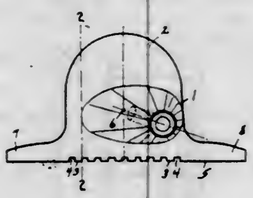
1. A bath cabinet comprising a compartment having a rear wall provided at its opposite vertical edges with forwardly extending side flanges and at its upper edge with a forwardly extending top flange, two side walls pivotally connected at their rear edges with the front edges of said flanges, a forwardly dished front wall connected at one vertical edge with the front edge of one of said side walls and detachably connected at its opposite vertical edge with the front edge of the other side wall, a fixed top secured to the upper end of said front wall, and a movable top pivotally connected at its rear edge with the front edge of said top flange and engaging its side and front edges with said side walls and said top of the front wall.

1,677,394. TRAP GUN. ALBIN MAKI, Toivola, Mich. Filed Aug. 23, 1924. Serial No. 733,758. 1 Claim. (Cl. 43—84.)



A trap-gun comprising a casing, a cone-shaped barrel member detachably mounted upon the casing, the larger end of the barrel member being of the same diameter as the adjacent end of the casing, the barrel member being provided at its upper end with an externally disposed enlargement adapted to form a bait holder, the bore of the barrel member adapted to receive a cartridge, a pin movably mounted in the casing, a spring supported weight held in the casing, a trigger pivoted in the casing and engageable with the weight to hold the same away from the pin and against the tension of the spring and a cord connected with the trigger and passing through the end of the casing and having an anchor adapted to be embedded in the earth.

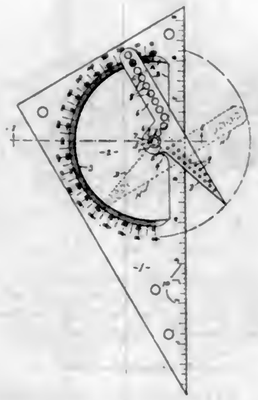
1,677,395. GO[illegible] Warren, Ohio. [illegible] 3 Claims. (Cl. 273—77.)



1. In a device of the class described, a body portion provided with the relatively enlarged rear extension, construction of said body portion such that the mass is equally divided on either side of the central point of a striking face, said point being a horizontal center of mass having a common point above described in combination with a plurality of ribs and depressions centrally located on striking face of said body portion, a detachable handle for said body portion substantially as described for the purpose set forth.

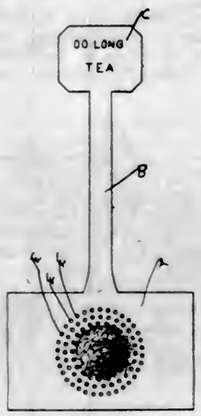
1,677,396. TRIANGLE. CLIFFORD G. MICKEL, Berryton, Kans. Filed June 7, 1926. Serial No. 114,177. 2 Claims. (Cl. 33—93.)

1. In a triangle, a drafting instrument having an arcuate opening, a beam having a laterally extending member provided with an aperture, the center of the aperture being in alignment with the straight edge of one end of the beam, there being a bevel on the peripheral edge of the arcuate opening, said bevel having degree graduations thereon to provide a protractor the aligned edge of the beam with the said aperture comprising radial means for finding the degree of an angle, there being cross lines on the laterally extending member of the beam,



said lines being transversely positioned to each other adjacent the pivot and functioning as a cross hair for centering the aperture on a given point when the straight side of the beam is rocked to alignment with its respective plane of the triangle.

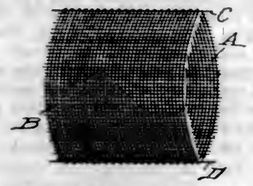
1,677,397. TEA BAG. HUGO MOCK, New York, N. Y. Filed May 10, 1928. Serial No. 276,537. 4 Claims. (Cl. 53—3.)



1. The process of making tea bags by cutting a blank from a single sheet of paper, folding and twisting one end thereof to enclose a quantity of tea and forming a handle and label-portion for said tea bag integral with the bag holding portion.

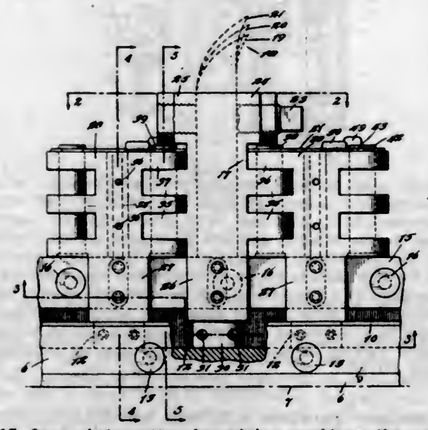
1,677,398. TUBULAR GAUZE FABRIC. JOHN V. MOORE, Pawtucket, R. I., assignor to Moore Fabric Company, Pawtucket, R. I., a Corporation of Rhode Island. Filed Nov. 2, 1925. Serial No. 66,161. 3 Claims. (Cl. 139—388.)

1. A tubular gauze fabric comprising two separate pieces of plain gauze fabric arranged in superposed relation, a thread connecting the filling loops in two adjacent selvages of said pieces of fabric to join two adjacent



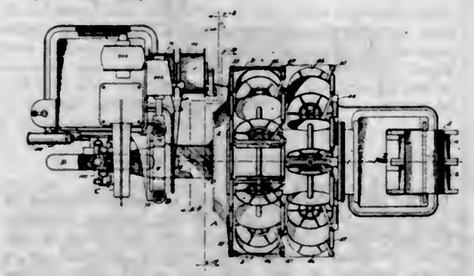
edges thereof, said thread being separately woven therein, and a draw thread joining the two opposite edges of said fabrics and conveniently removable therefrom.

1,677,399. CHAIN CUTTER AND METHOD OF CUTTING KERFS. EDMUND C. MORGAN, deceased, New York, N. Y., by Olive Eugenie Morgan, New York, N. Y., executrix. Filed Aug. 13, 1923. Serial No. 656,987. 24 Claims. (Cl. 262—33.)



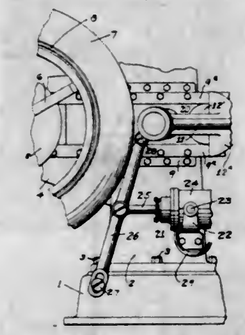
17. In a chain cutter for mining machines, the combination with a plurality of pivotally connected links, of bit sockets carried by some of said links, and a plurality of cutters carried by the successive bit sockets, one cutter being shaped to cut a deep central groove narrow in width, and other cutters following and shaped to cut angular grooves into the side walls of the first groove to widen the kerf gradually.

1,677,400. CORD-FABRIC AND TIRE MAKING MACHINE. HOWARD I. MORRIS, Cleveland, Ohio, assignor to The Cord Tire Machine Company, Cleveland, Ohio, a Corporation of Arizona. Filed Aug. 8, 1918, Serial No. 532,039. Renewed Jan. 26, 1922. 56 Claims. (Cl. 154—11.)



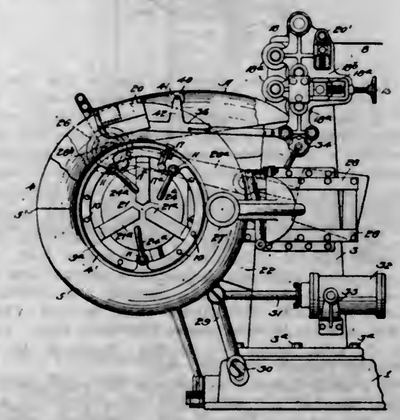
1. In a machine of the character disclosed, means for supplying tire material, a core upon which the tire is to be formed of such material, means for rotating the core, and means upon which the tire material supplied to said core exerts a tension, whereby the means for rotating said core is varied as to positiveness of its action.

1,677,401. APPARATUS FOR MAKING TIRES OR TIRE CARCASSES. HOWARD I. MORRIS, Cleveland, Ohio, assignor to The Cord Tire Machine Company, Cleveland, Ohio, a Corporation of Arizona. Filed Sept. 6, 1924. Serial No. 736,349. 11 Claims. (Cl. 154—10.)



1. In apparatus of the class described, the combination with a rotatable former on which the material is wound, of a frame supported so as to be movable toward and from the former, a positioning device carried by the frame arranged to engage with the material upon the former, rolling down means supported directly in the frame and located on either side of the positioning device, automatically operating means arranged to move the rolling down means to positions out of contact with the material on the former when the positioning device comes into engagement with the material supported on the former, and means under the control of the operator to force the rolling down means into engagement with the material after the frame has been advanced to bring the positioning device into contact with the material.

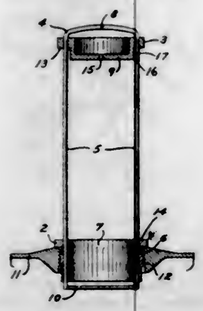
1,677,402. APPARATUS FOR MAKING TIRES OR TIRE CARCASSES. HOWARD I. MORRIS, Cleveland, Ohio, assignor to Cord Tire Machine Company, Cleveland, Ohio, a Corporation of Arizona. Filed Dec. 20, 1924. Serial No. 757,136. 20 Claims. (Cl. 154—10.)



16. In apparatus of the class described, the combination of a frame, means on said frame for feeding and supply-

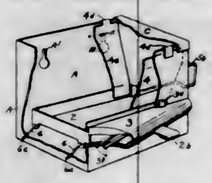
ing tire forming material, a chuck rotatively mounted on said frame, a core structure mounted on said chuck on which the material is convolutely wound, said core structure having bead rings disposed at opposite sides of the core body and forming therewith bead pockets, means for removably clamping said bead rings in fixed relationship to said core body, and a clamping device carried by each bead ring and arranged to engage the free end of the material at one side and secure it to the under side of the core body, said clamping devices being disposed in angular relationship to each other.

1,677,403. CLOSURE CAP. WILLARD L. MORRISON, Melrose, Mass. Filed Apr. 25, 1925. Serial No. 25,733. 12 Claims. (Cl. 220—24.)



1. In combination, an annular element having external screw threads and a central opening, a closure cap movable toward and away from said opening, and guide means comprising parallel rod portions carried by said cap and frictionally engaging said element beyond the periphery of said opening.

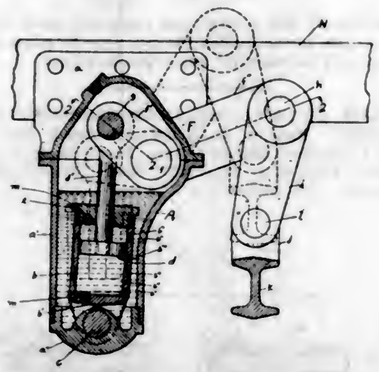
1,677,404. SERVER OF HOUSEHOLD ARTICLES. JOHN O. NASLIN, Seattle, Wash. Filed May 6, 1926. Serial No. 107,202. 5 Claims. (Cl. 221—146.)



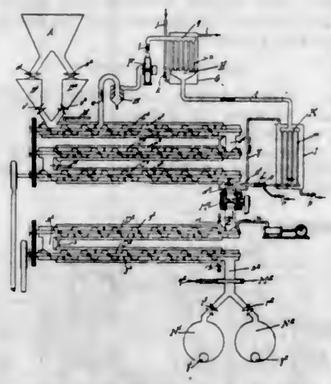
1. In a server of household articles, a case and an outlet opening therein, a bottom member adapted for vibrating movements in said case and opening, means swingingly supporting said bottom in said case for such movements, a diaphragm whereby over said bottom a changeable opening is formed in line with said outlet opening, means for raising and lowering said diaphragm, diaphragms for shaping and limiting the room in said case, a service member in front of said opening and means for moving said bottom back and forth.

1,677,405. SHOCK ABSORBER FOR MOTOR VEHICLES. GORDON R. PENNINGTON, Cleveland, Ohio. Filed Jan. 5, 1922, Serial No. 527,228. Renewed Apr. 7, 1927. 13 Claims. (Cl. 188—88.)

1. In a shock absorber for vehicles, the combination of a casing forming a substantially liquid-tight chamber; a body of liquid in said chamber; a shaft extending from the outside to the inside of said casing through the wall thereof and rotatable in relation thereto; and double acting liquid forcing means in said casing comprising two liquid chambers and piston means movable therein and operatively connected to the said shaft, said liquid forcing means being provided with means affording and controlling liquid inlet to and outlet from the said chambers, the said chambers in the normal operation of the device having communication with the said body of liquid and the said means affording and controlling liquid inlet to and outlet from the said chambers adapting the said forcing means to resist the relative rotation of the said shaft in one direction by a force which is relatively small during movement from one extreme to the intermediate normal position of said shaft and which increases to a maximum at a predeterminable relative rate as the rotation proceeds from said normal position to the opposite extreme, and to resist the relative rotation of the said shaft in the opposite direction by a force which increases at a predeterminable relative rate from a relatively small value in that position in which the resisting force is a maximum for the first-named movement, said forces varying furthermore with the speed of rotation of said shaft.

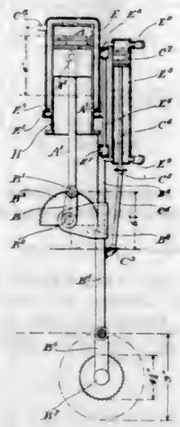


1,677,406. PROCESS FOR THE SACCHARIFICATION OF CELLULOSE BEARING MATERIAL. JOHN PERL, Los Angeles, Calif., assignor to M. M. Cory, San Diego, Calif. Filed July 3, 1925. Serial No. 41,246. 4 Claims. (Cl. 127—37.)



1. The herein described process of saccharification of the cellulose component of cellulose bearing material, with anhydrous hydrochloric acid gas consisting in subjecting disintegrated cellulose bearing material to a counter current of said acid gas mixed with diluent cooled inert gas, wherein the cooled gas of the highest acid content meets the cellulose bearing material in motion of the highest acid saturation and continues until it contacts with the fresh cellulose bearing material when said gas mixture is in a partly exhausted acidic condition.

1,677,407. INTERNAL-COMBUSTION ENGINE. ALVAH LEIGH POWELL, Cleveland, Ohio, assignor, by mesne assignments, to The A. L. Powell Power Company Incorporated, a Corporation of Montana. Original application filed Dec. 8, 1920, Serial No. 429,167. Divided and this application filed Oct. 2, 1924. Serial No. 741,226. 1 Claim. (Cl. 123—173.)



In combination with an internal combustion engine cylinder, a cooling jacket partly surrounding the cylinder, an inlet port for the jacket, a pipe extending above and below the said port and communicating therewith, an auxiliary cylinder having its ends connected with the ends of the pipe, a check valve in each end of the pipe, inlet valves for the auxiliary cylinder, a double acting piston slidable within the auxiliary cylinder, and means whereby the same may be actuated, said means including a connecting rod, a piston rod, and a universal joint between the connecting rod and the piston rod.

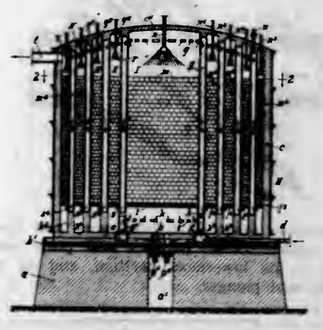
1,677,408. FASTENER. GEORGE E. PRENTICE, Berlin, Conn. Filed May 7, 1925. Serial No. 28,569. 7 Claims. (Cl. 24—205.)



5. A slider for fasteners of the class described comprising spaced substantially parallel front and rear plates having means defining guide channels for fastener elements, said channels in transverse section, being broader at one end than at the other, the broader end of one channel section being opposed to the narrow end of the other channel section.

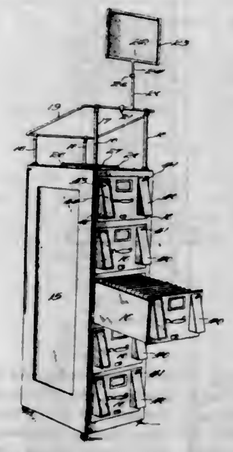
1,677,409. ABSORPTION PLANT FOR GASES AND VAPORS. FRITZ ROTTMANN and FRIEDRICH BROHMEYER, Bovinghausen, Germany. Filed July 6, 1925, Serial No. 41,723, and in Germany July 10, 1924. 5 Claims. (Cl. 261—98.)

5. A compact absorption plant including a substantially cylindrical casing having a roof and a floor section, a plurality of spaced substantially cylindrical partitions extending from the roof of said casing to the floor thereof defining a cylindrical central tower, a plurality of annular towers surrounding said cylindrical tower and a plurality of annular hollow mantles separating said towers, means for introducing a gaseous medium to one of said towers, means for introducing an absorbing fluid



to each of said towers, said partitions being apertured alternately at the top and bottom thereof whereby a zig-zag course for said gaseous medium is provided, a grate in each of said towers for supporting a column of porous material and conduits for removing the medium-laden absorbing fluid.

1,677,410. CABINET. EDWARD L. SCHWAB, Chicago, Ill. Filed Oct. 20, 1922. Serial No. 595,733. 4 Claims. (Cl. 129—16.)

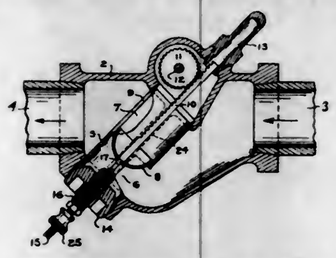


1. In a device of the class described, the combination of a base, a frame comprised of separable sections adapted to be detachably secured together, supports for said frame, said supports being connected to said frame to allow said supports to be moved from their frame-supporting position to a position substantially parallel with the base.

1,677,411. FLOW METER. EUGENE M. SCOVILLE, Milwaukee, Wis., assignor of one-half to Floyd L. Swanberg, Pittsburgh, Pa. Filed Sept. 13, 1924. Serial No. 737,635. 3 Claims. (Cl. 73—167.)

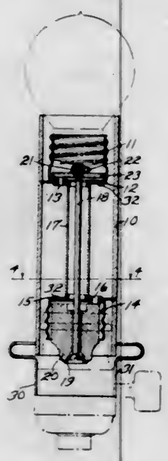
1. In combination, a main casing forming a through conduit and having a bore extending diagonally across the axis of said conduit, a reversible tubular member

fitting said bore so as to prevent flow through said casing around said member and having staggered inlet and discharge ports communicating with said conduit at opposite sides of said member, a plunger slidable within said



tubular member above said inlet port and formed to intercept communication between said ports when said plunger is in its lowermost position, and an indicator operable by said plunger.

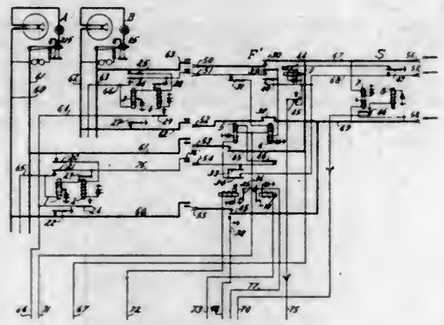
1,677,412. IMITATIVE CANDLE FITTING. RAYMOND D. SMITH, Pleasantville, N. Y., assignor, by mesne assignments, to Tremont Products Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 29, 1923. Serial No. 615,711. 14 Claims. (Cl. 173—344.)



12. A fastening device for effecting the rigid assembly of an interior body structure and a surrounding casing therefor embodying a deformable plate receivable inside said casing with its edge closely adjacent the interior wall of said casing, said plate having its central and peripheral portions disposed in a substantially common flat plane and having a portion intermediate said central and peripheral portions dented whereby the flattening of said dented portion forces said plate edge into engagement with said casing in a plane of movement coincident with the said plane in which said central and peripheral plate portions were originally disposed.

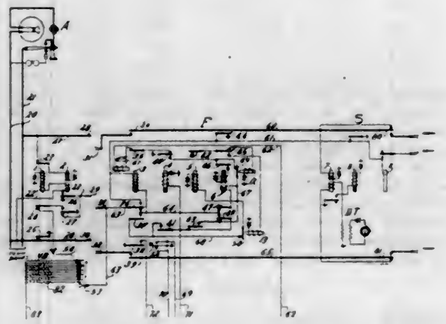
1,677,413. AUTOMATIC TELEPHONE SYSTEM. RUDOLPH F. STEHLIK, Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed May 23, 1927. Serial No. 193,432. 17 Claims. (Cl. 179—18.)

1. In a telephone system, a group of lines, a plurality of groups of finder switches having access thereto, said lines being divided into subgroups each of which is first choice to one of said groups of finders, and means responsive to the initiation of a call on any line for start-



ing and directively controlling a finder switch in the group to which the subgroup containing said line is first choice.

1,677,414. AUTOMATIC TELEPHONE SYSTEM. RUDOLPH F. STEHLIK, Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed May 25, 1927. Serial No. 193,960. 14 Claims. (Cl. 179—18.)

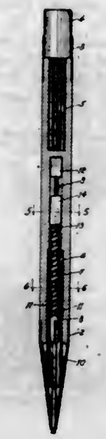


1. In an automatic switch mechanism, two driving magnets each controlling an interrupter spring, an interrupter relay common to said magnets, a circuit for said relay including said interrupter springs in series, wipers on said switch, contacts accessible to said wipers, means for energizing said relay over said circuit to operate the first of said magnets under the control of a certain one of said wipers and interrupter springs, means operated through said certain wiper to shunt said certain interrupter spring and to render said second magnet and interrupter spring operative to position said wipers upon certain ones of said contacts.

1,677,415. MECHANICAL PENCIL. JOHN STRAKA, Chicago, Ill., assignor to The Wahl Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 28, 1922, Serial No. 557,199. Renewed Nov. 10, 1924. 11 Claims. (Cl. 120—18.)

6. A pencil comprising a barrel, a tip rotatably and removably engaging said barrel, a lead support having a non-circular head, screw threaded engagement means operated by the relative rotation of said barrel and said tip for imparting longitudinal movement to said lead support, a lead ejector engaging said lead support and

having a non-circular head, and means cooperating with said threaded engagement means and said non-circular heads and operated by relative rotation of said barrel



and said tip for advancing said lead ejector at the end of the longitudinal movement of the lead support in one direction.

1,677,416. ORE CONCENTRATION. BURNELL R. TUNISON, Elizabeth, N. J. Filed Feb. 9, 1924. Serial No. 691,810. 4 Claims. (Cl. 209—166.)

1. A process of effecting the concentration of minerals by froth flotation, which comprises subjecting to froth flotation a mineral pulp in the presence of the extracted oily sulfurous component of a sulfurous petroleum oil, said extracted component being soluble in caustic and insoluble in water.

1,677,417. RESINOUS COMPOSITION AND PROCESS OF MAKING SAME. VICTOR H. TURKINGTON, Caldwell, N. J., assignor to Bakelite Corporation, New York, N. Y., a Corporation of Delaware. Filed July 7, 1927. Serial No. 204,144. 14 Claims. (Cl. 134—26.)

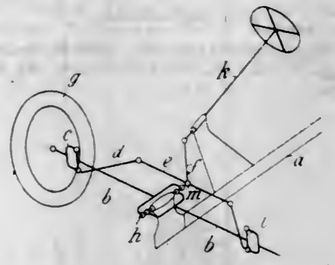
1. A resinous composition comprising a phenol-fatty oil-methylene reaction product in conjunction with a sufficient proportion of non-phenolic resin to function as a blending agent and to prevent the separation of insoluble reaction products.

1,677,418. LANDING GEAR. EBER HARLEY VAN VALKENBERG, McKeesport, Pa., assignor of one-half to Oscar Silverstein, Spokane, Wash. Filed Oct. 23, 1926. Serial No. 143,622. 3 Claims. (Cl. 244—2.)



1. In a landing gear for aeroplanes, the combination with a rigid structure, of a divided axle having a central pivot point, a toggle connection between said point and the rigid structure, a shock absorbing device in connection with said toggle connection, and lateral means for suspending the divided axles from the rigid structure.

1,677,419. STEERING GEAR. MAX WAGNER, Mannheim, Germany, assignor to Benz & Cie. Rheinische Automobil- u. Motoren-Fabrik Aktiengesellschaft, Mannheim, Germany, a Corporation of Germany. Filed Apr. 28, 1923, Serial No. 635,341, and in Germany May 1, 1922. 5 Claims. (Cl. 280—87.)

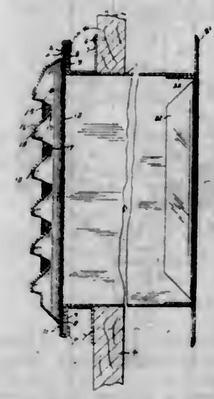


1. In a vehicle, the combination with the frame, of a front axle comprising a pair of complemental axle sections, a pivotal connection between said axle sections and said frame, said pivotal connection being common to both of the axle sections and being disposed longitudinally of the vehicle in registry with the median plane thereof, yielding means tending to force said axle sections downwardly, a steerable wheel mounted upon each axle section to swing relatively thereto about a vertical axis, and steering mechanism operatively connected with said steerable wheels.

1,677,420. MANUFACTURE OF IRON. MARK G. WOODMAN, Chicago, Ill., assignor of one-third to David G. Fisher and one-third to Vivian F. Shantz, Chicago, Ill. Filed May 16, 1927. Serial No. 191,937. 2 Claims. (Cl. 75—49.)

2. An improvement in the art of making iron castings which consists in adding to the iron while in a molten state a quantity of salicylic acid in proportions ranging from one to three pounds per ton of iron.

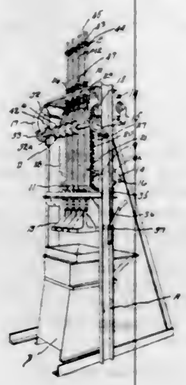
1,677,421. LOUVER VENTILATOR. RALPH C. YAGER and GEORGE L. YAGER, Oakland, Calif., assignors to Yager Sheet Metal Company, Oakland, Calif., a Copartnership. Filed Jan. 11, 1926. Serial No. 80,519. 1 Claim. (Cl. 98—29.)



A device of the type described comprising a casing adapted to be placed in an opening in a wall construction, said casing to have a first flange thereon, a trough-

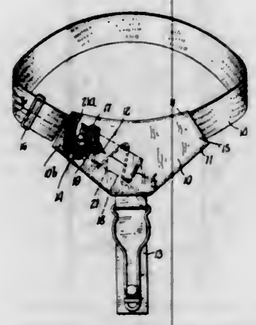
shaped member secured to said first flange and providing means for permitting said casing to be secured to the wall, said trough-shaped member being of sufficient width to receive the wiring and stucco carried by the wall, and a second flange carried by the other end of said casing and being adapted to lie flush against the inner surface of the wall.

1,677,422. TAMPING MACHINE. JOHN D. ABRAM, Detroit, Mich. Filed Mar. 1, 1926. Serial No. 91,647. 33 Claims. (Cl. 25—41.)



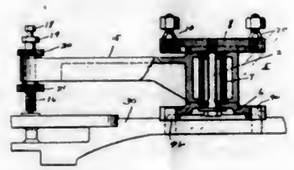
1. A tamping machine comprising a reciprocable tamping rod, means retaining the tamping rod in inoperative position, an actuating mechanism for imparting movement to the tamping rod and movable in a predetermined path so as to engage the tamping rod to impart sufficient momentum thereto to move the rod into the aforesaid inoperative position, and a safety device for also maintaining the tamping rod in inoperative position when the rod is not moved sufficiently to cause its engagement with the said retaining means.

1,677,423. GARTER. GABRIEL ABRAHAM, New York, N. Y. Filed Apr. 7, 1927. Serial No. 181,624. 2 Claims. (Cl. 241—6.)



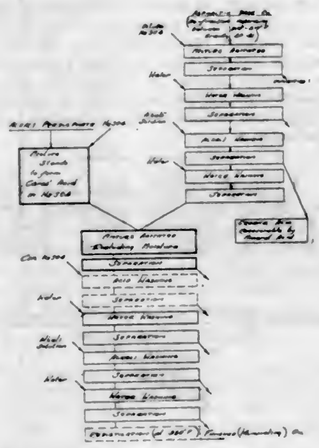
1. A garment supporter as set forth comprising a pad composed of a plurality of plies fastened together all round their periphery and spaced from each other within the central portion, the front portion of the pad being provided with an opening, a band fastened at one end of the pad, an attachment loop connected to the other end of the band, and metallic spring mechanism carried within the pad and comprising two principal parts,—a plate and a compression spring, one end of the spring having abutment relation with the end of the pad remote from where the band is attached, the plate being held by the spring spaced from the abutment point and having a head projected outward through said opening for co-operation with the attachment means carried by the band.

1,677,424. GAUGE. GERALD H. ALLEN, Detroit, Mich. Filed May 20, 1925. Serial No. 31,693. 7 Claims. (Cl. 33—180.)



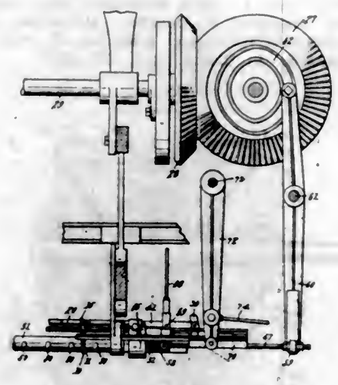
1. A gap gauge comprising a standard having upper and lower parallel faces adapted to contact with the faces to be gauged, an arm extending from said standard, said arm carrying a pin substantially perpendicular to the planes of said parallel faces, which pin exceeds in length the distance between said parallel faces by a predetermined amount.

1,677,425. PROCESS FOR THE REFINING OF PETROLEUM FRACTIONS. FRANK C. AXTELL, South Pasadena, Calif., assignor to Axtell Research Laboratories, Inc., Los Angeles, Calif., a Corporation of California. Filed Sept. 24, 1925. Serial No. 58,327. 1 Claim. (Cl. 196—42.)



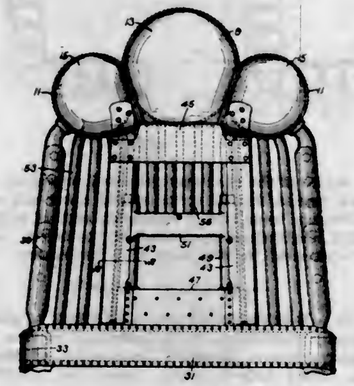
In refining petroleum oils, the treatment thereof with sulphuric acid solutions of persulphuric acid and Caro's acid, substantially as herein set forth and described.

1,677,426. ACTUATING MECHANISM IN ORIENTAL-RUG LOOMS. MARIUS A. BAUER, Worcester, Mass., assignor to M. J. Whittall Associates, a Voluntary Association of Massachusetts. Filed May 18, 1927. Serial No. 192,444. 8 Claims. (Cl. 139—4.)



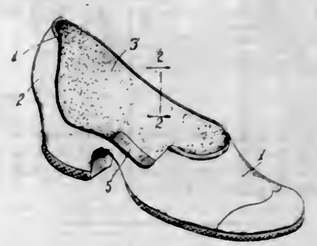
1. In a loom for weaving oriental rugs, plier-actuating mechanism comprising a longitudinally movable rod for opening and closing a series of yarn pliers, a bell crank, a link directly connecting said bell crank to the adjacent end of said rod, a second bell crank having a cam roll thereon, a cam effective to intermittently actuate said cam roll and bell crank, and a second link directly connecting said two bell cranks.

1,677,427. LOCOMOTIVE BOILER. WILLIAM L. BEAN, West Haven, Conn., assignor to McClellon Locomotive Boiler Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 21, 1923. Serial No. 633,632. 5 Claims. (Cl. 122—94.)



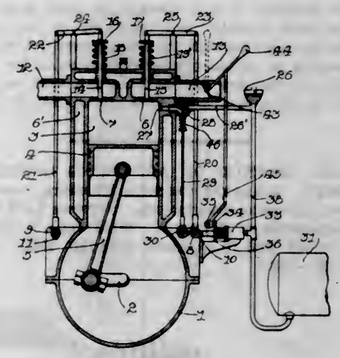
1. A locomotive boiler comprising a barrel and a firebox comprising a crown chamber communicating at its forward end with said barrel and supported in part thereby, a foundation chamber also communicating at its forward end with said barrel, water tubes extending between foundation and crown and providing the walls of the firebox and pillars exterior of the walls extending between foundation and crown at the rear of the latter and supporting the rear portion of the crown independently of said tubes.

1,677,428. FOOTWEAR LINING. CHARLES E. BRADLEY and CLAUDE D. MASON, Mishawaka, Ind., assignors to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a Corporation of Indiana. Filed May 19, 1927. Serial No. 192,591. 5 Claims. (Cl. 36—5.)



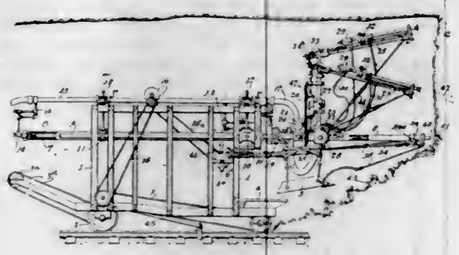
1. In an article of footwear, the combination of an upper composed entirely of elastic rubber composition with a lining of comminuted fibers applied to the inner surface thereof so that the extensibility of the lining is limited solely by the elasticity of the rubber composition.

1,677,429. INTERNAL-COMBUSTION ENGINE. DON COLE, Chicago, Ill., assignor of one-half to John A. Dienner, Chicago, Ill. Filed Sept. 9, 1918, Serial No. 253,141. Renewed June 16, 1924. 5 Claims. (Cl. 123—31.)



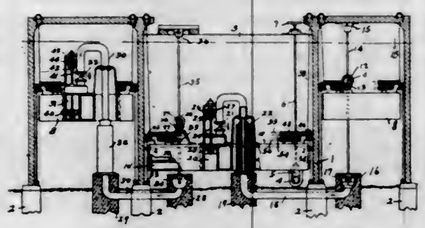
1. The method of promoting combustion in an internal combustion engine which consists in periodically supplying fuel from a source of supply to a reservoir of capacity suitable for one charge, creating a relatively high vacuum in the cylinder of the engine and then admitting the fuel substantially unmixed with air from said reservoir into said relatively high vacuum and admitting air at the end of the suction stroke only.

1,677,430. MULTIPLE-AIR-DRILL TUNNELING MACHINE. WILLIAM R. COLLINS, Georgetown, Colo. Filed Feb. 1, 1926. Serial No. 85,396. 9 Claims. (Cl. 262—5.)



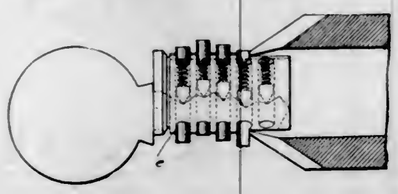
1. In a tunneling machine, the combination of a carriage propelled by its own motor, containing within its frame conveyor belts and mucking reels, and supporting three parallel pneumatic tubes.

1,677,431. HYDRAULIC MOTOR. IVAR CORNELIUSSEN, Galveston, Tex. Filed Nov. 10, 1924. Serial No. 748,865. 7 Claims. (Cl. 60—6.)



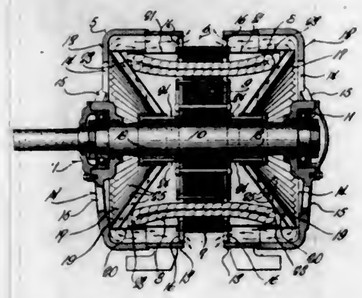
1. A device of the character described including an enclosed chamber, a float therein, an inlet water conduit entering said chamber and provided to deliver water into the chamber beneath the float, power delivery mechanism carried by the float, means mounted on the float and actuated by the flow of fluid through said conduit and operatively connected with said mechanism to drive the same.

1,677,432. METHOD OF ADJUSTING LOCKING CYLINDERS. JOHANNES CRONING, Hamburg, Germany, assignor, by mesne assignments, to Crown Lock Company, a Corporation of Delaware. Filed June 3, 1925, Serial No. 34,652, and in Germany Sept. 30, 1924. 2 Claims. (Cl. 29—148.)



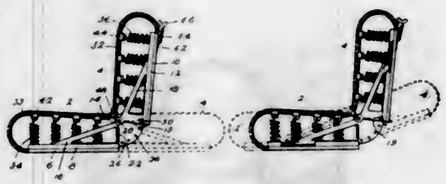
1. A method of adjusting the locking pins of cylinder locks to a particular key, comprising inserting the pins in a plug blank of larger diameter than the finished plug, inserting the key in the keyway of the plug to move the pins to their position in the unlocked lock and rapidly rotating the plug blank in contact with tools to turn down the plug blank and pin ends to the diameter of the finished plug.

1,677,433. ELECTRIC MOTOR AND DYNAMO MACHINE. CARL L. DAUN, Milwaukee, Wis., assignor to Silcock Airadiator Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 26, 1928. Serial No. 249,709. 21 Claims. (Cl. 172—36.)



1. In an electric motor and dynamo machine including a rotor and a stator, means protecting the live parts of the machine from contact with extraneous matter in the atmosphere and including a pleated member rotatable with the rotor, the pleats of said member providing a relatively large air contact surface to insure the dissipation therethrough of heat generated by the machine.

1,677,434. ADJUSTABLE SEAT. JOHN M. DORTON, Bonner Springs, Kans. Filed June 29, 1925. Serial No. 40,375. 2 Claims. (Cl. 155—179.)

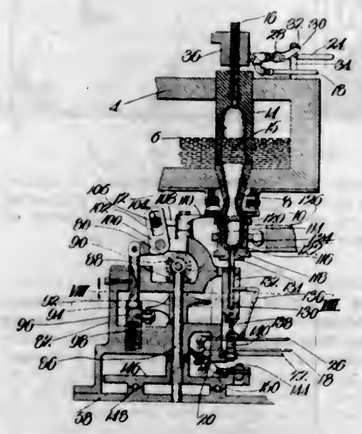


1. A device of the character described consisting of seat and back frames, flexible strips spaced apart and secured to said frames, loops loosely embracing each of said strips to permit longitudinal movement of the latter, and coil springs connected to said loops and the frames.

1,677,435. WATERPROOFING LEATHER. HENRY V. DUNHAM, Bainbridge, N. Y., assignor to Van Tassel Company, Boston, Mass., a Corporation of Massachusetts. Filed July 6, 1926. Serial No. 120,877. 19 Claims. (Cl. 134—9.)

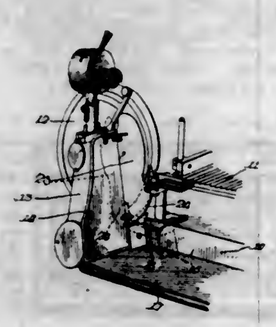
1. A method of waterproofing leather which comprises thoroughly incorporating between 5% and 50% of rubber with molten paraffin wax at about 150° C., until a uniform smooth mixture is obtained, which mixture, if cooled to room temperature is a firm waxy solid, and thereafter impregnating the leather with said mixture, in the absence of volatile solvents, while such mixture is in a hot molten state.

1,677,436. GLASS FEEDING AND DELIVERING MECHANISM AND PROCESS. ENOCH T. FERNGREN, Beaver, Pa., assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Sept. 29, 1913, Serial No. 276,175. Renewed Feb. 10, 1919. 67 Claims. (Cl. 49—55.)



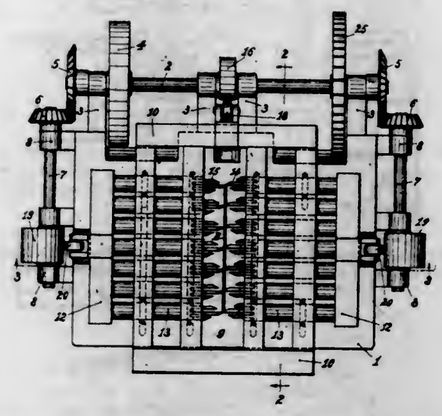
20. In apparatus for separating charges of molten glass, a container having a discharge outlet, a charge shaping transfer cup adapted to form a pneumatic working connection with the outlet, means for producing an abnormal pressure in said cup when in charge-receiving position at the outlet, means for supporting the cup and for oscillating the same laterally toward and away from the outlet, and mechanically operated shears arranged to meet between the cup and the outlet to sever the glass in timed relation with the movement of the cup.

1,677,437. SLICING MACHINE. JOSEPH FOLK, La Porte, Ind., assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed Jan. 29, 1926. Serial No. 84,591. 8 Claims. (Cl. 146—102.)



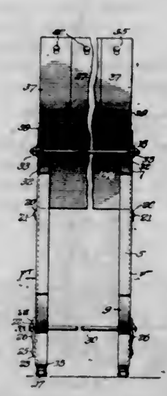
1. The combination with a slicing machine having a rotary slicing knife and a reciprocating table for moving material toward the cutting side of said knife, of a scrap pan disposed beneath said knife, said pan being removable at the side of said knife adjacent the cutting side thereof.

1,677,438. APPARATUS FOR PRODUCING MESHED SHEET METAL, FLAT BARS, AND HOOP IRON. HEINRICH FROHNHAUSER, Dortmund, Westphalia, Germany. Filed Nov. 10, 1924, Serial No. 748,877, and in Germany Feb. 26, 1924. 14 Claims. (Cl. 164—65.)



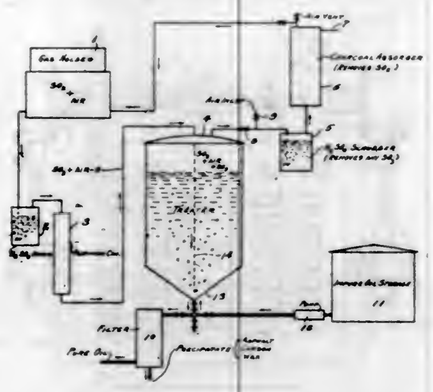
13. The method of producing expanded metal, which consists in first producing registering notches or recesses in opposite faces of a blank so as to leave between such recesses, webs of a thickness smaller than the original thickness of the blank, and then perforating said webs and expanding the blank at the perforations thus made.

1,677,439. PORTABLE SUPPORT. LE ROY M. FULTON, Chicago, Ill. Filed Sept. 13, 1923. Serial No. 662,493. 2 Claims. (Cl. 211—71.)



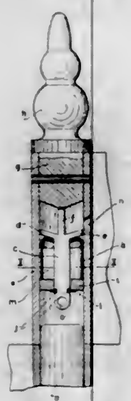
1. In a supporting device, a pair of standards including angle bars notched at a plurality of points and bent at said notches to form complemental top divergent supporting portions, intermediate substantially parallel relatively spaced standards, divergent legs and spaced foot portions in planes substantially parallel with said intermediate standards, and transverse bars connected to said standards for spacing same apart whereby a polygonal container, may be supported in said top divergent supporting portions.

1,677,440. PROCESS OF TREATING PETROLEUMS. WRIGHT W. GARY, Los Angeles, Calif., assignor of one-half to Charles O. Middleton, Los Angeles, Calif. Filed June 7, 1926. Serial No. 114,078. 7 Claims. (Cl. 196—42.)



1. The process of treating petroleum, comprising, passing therethrough sulfuric anhydride maintained in a dry and gaseous state.

1,677,441. AUTOMATIC LUBRICATING DEVICE FOR HINGES OF DOORS AND WINDOWS. IGNATZ GONYK, Ljubljana, Yugoslavia. Filed Mar. 10, 1927, Serial No. 174,361, and in Germany Mar. 17, 1926. 4 Claims. (Cl. 16—161.)



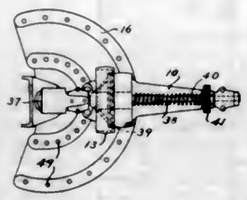
1. A lubricating device for hinges of doors or windows, comprising a container for the lubricating agent adapted to be inserted into the hollow part of the knuckle and consisting of a vessel with funnel shaped cover, a bottom piece of porous material adapted to close said vessel from the under side and to fit exactly into the hollow part of the knuckle so as to be able to support the container and through which the lubricant may very slowly penetrate, and a central pin adapted to engage the cover and the porous bottom of said container to hold said parts together.

1,677,442. INDOOR GOLF APPARATUS. JOHN C. HALL, Whiting, Ind. Filed Apr. 16, 1928. Serial No. 270,174. 11 Claims. (Cl. 273—35.)



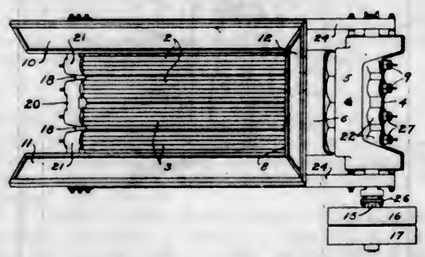
1. Indoor golf apparatus comprising a plurality of separate target curtains, and means for suspending said curtains in an arrangement to form a plurality of horizontal sets and a plurality of vertical sets.

1,677,443. CAN WASHER. OSWALD H. HANSEN, Port Washington, Wis., assignor to Hansen Canning Machinery Corporation, Port Washington, Wis. Filed Sept. 22, 1922. Serial No. 589,888. 7 Claims. (Cl. 141—7.)



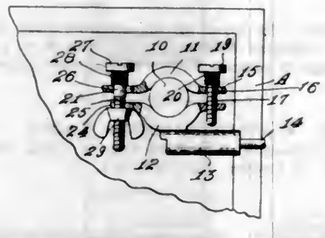
1. In a can washer, a cleansing chamber, can cleansing means within said chamber, a can transporting rotor within said chamber having a series of can hooks for transporting cans in proximity to said cleansing means, and a can discharge rotor adjacent to said transporting rotor, said discharge rotor having can hooks cooperable with said transporting rotor hooks to form substantially cylindrical successive can receiving pockets.

1,677,444. BEET TOPPER. OSWALD H. HANSEN, Port Washington, Wis., assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis., a Corporation of Wisconsin. Filed Sept. 14, 1925. Serial No. 56,127. 8 Claims. (Cl. 146—85.)



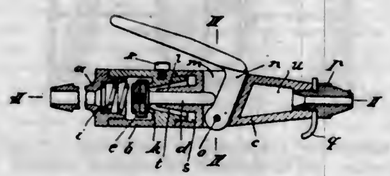
1. In combination, a pair of cooperating rolls rotatable in opposite directions to remove appendages from objects traveling therealong and inclined to deliver the treated objects over the lower ends thereof, means providing supporting bearings located entirely within said rolls and shielded from contact with the objects treated, and means for effecting movement of said bearings along the roll axes.

1,677,445. BATTERY-TERMINAL CLAMP. GEORGE HARDOS, Dunmore, Pa. Filed July 26, 1926. Serial No. 125,068. 1 Claim. (Cl. 173—259.)



A battery terminal clamp comprising companion sections having their intermediate portions oppositely curved to conform to the post of the battery which they are adapted to embrace, the adjacent end portions of the respective sections being extended in spaced parallel relation, two of said ends having aligned openings, one of which is threaded, a bolt passing through said openings and threaded into the latter mentioned opening, the other end of one section having a slot, the adjacent end of the other section having an opening, a bolt passed through said slot and opening and having a squared portion arranged in the slot, a thumb nut associated with the bolt, coiled springs surrounding both of said bolts and exerting pressure against one of said sections to permit yielding movement thereof with relation to the other section while the clamp is being attached to the post, and a sleeve-like member carried by one of said sections and arranged at a right angle thereto.

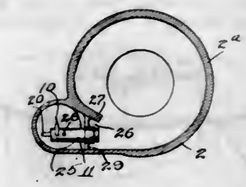
1,677,446. BLOWER. ERNST HARTMETZ, Oberesslingen-on-the-Neckar, Germany. Filed May 12, 1927, Serial No. 190,856, and in Germany May 17, 1926. 2 Claims. (Cl. 251—134.)



1. A blower comprising a valve casing, means for supplying fluid under pressure to said casing, a nozzle support on said valve casing having a fluid passage way, a bushng projecting from the rear end of said support, a control valve in said valve casing, a spindle secured to said valve and carried in said bushing, said control valve being arranged longitudinally with respect to said blower and so as to be held on its seat by the pressure of the fluid, the body of said blower containing a slot, and an operating lever in contact with said spindle and arranged pivotally within said slot.

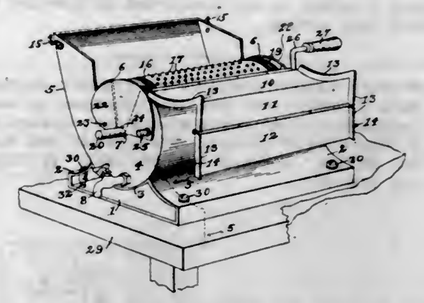
1,677,447. HYDROCARBON BURNER. FRANK HIGGINS and ARTHUR E. NORDSTROM, Princeton, Ill. Filed June 22, 1925. Serial No. 38,942. 2 Claims. (Cl. 158—28.)

1. In an oil burning system, a substantially cylindrical fire pot having an offset portion, with a deflector upon the inner side of said offset portion, the outer wall of said offset portion forming a parti straight continuation of the wall of the cylinder, and a fuel nozzle



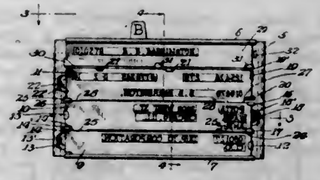
so located in said offset portion as to direct the fuel tangentially of the wall of the fire pot to produce a swirl beyond said offset portion.

1,677,448. GRATER. AUGUSTA DU BUISSON HOPKINS, New Orleans, La. Filed Dec. 5, 1927. Serial No. 237,736. 2 Claims. (Cl. 146—91.)



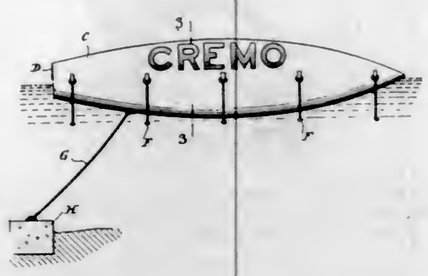
1. In an apparatus of the class described, the combination of a casing provided with ends, said ends provided with shaft receiving slots, a cylinder with shafts seated in said slots, end latches on the ends of said casing and normally straddling said shafts and entirely closing said receiving slots, and a cover for said casing normally closing over and bearing upon said end latches for holding them in a locked position.

1,677,449. PRINTING DEVICE. HENRY E. HUBBARD, Chicago, Ill., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill., a Corporation of Delaware. Filed May 5, 1927. Serial No. 188,884. 3 Claims. (Cl. 101—370.)



1. A printing device of the character described comprising a frame, and three separate printing plate sections removably secured in place thereon one above the other in edge contact one with the other, said frame having retaining means stamped therefrom to engage and hold the plate sections, the middle section being insertable in and removable from the frame at one end thereof and the upper and lower sections being insertable in and removable from the frame at the other end thereof.

1,677,450. FLOAT. MAX WILHELM IDEN, Altona, Germany. Filed May 28, 1926. Serial No. 112,239, and in Germany August, 1925. 5 Claims. (Cl. 9—11.)



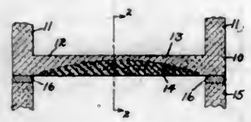
1. A float comprising an envelop provided with a double wall at its lower portion, to form a pocket, a filling of ballast in said pocket, and an inflatable bag within said envelop.

1,677,451. SEMIAUTOMATIC TELEPHONE SYSTEM. EMIL JACOBSEN, New York, N. Y., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Mar. 13, 1919. Serial No. 282,442. Renewed Aug. 26, 1927. 29 Claims. (Cl. 179—27.)

1. In a telephone system, a directively controlled automatic switch, lines accessible thereto, a variable impulse sender common to said lines, an automatic non-numerical switch individual to said switch, means for operating said first switch to extend a connection to one of said lines, other automatic switches, means controlled over the called line exclusive of the said impulse sender for operating said non-numerical switch to extend the connection to one of said other automatic switches, and means controlled by said impulse sender for operating the seized automatic switch to extend the connection in the direction of another called line.

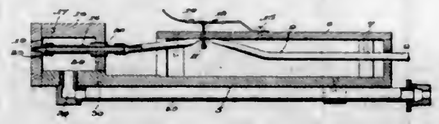
1,677,452. SAGGER. JOSEPH A. JEFFERY, Detroit, Mich., assignor to Champion Porcelain Company, a Corporation of Michigan. Filed Jan. 2, 1926. Serial No. 79,018. 17 Claims. (Cl. 25—153.)

1. A silicon carbide body covered by a refractory alumina-silica compound which does not change materially in volume from the green state in which the compound is applied to the body when fired to a high



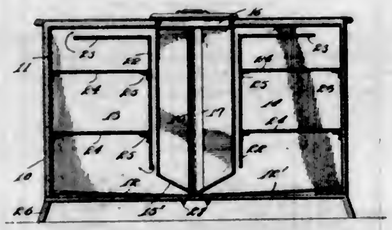
temperature, the layer of the alumina-silica compound being of sufficient thickness to be injured by any material change in volume relative to the silicon carbide.

1,677,453. COATING MACHINE. CARADOC L. JONES, Chicago Heights, Ill. Filed Apr. 14, 1925. Serial No. 23,107. 3 Claims. (Cl. 251—5.)



1. In a spray apparatus a housing, a plurality of flexible conduits extending through said housing, a movable member in said housing and supporting said conduits therein, and manually releasable tension means on said housing and in operative connection with said movable supporting member to maintain said conduits closed by compression between said member and a portion of the housing.

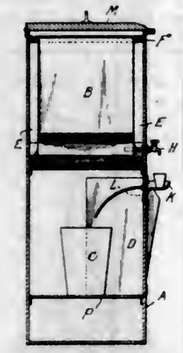
1,677,454. REFRIGERATOR. JOSIAH L. JONES, St. Petersburg, Fla. Filed Aug. 19, 1927. Serial No. 214,139. 1 Claim. (Cl. 62—58.)



A refrigerator comprising an outer case of standard construction, an uninsulated ice chamber disposed centrally of said casing in such a manner that said ice chamber forms a practical airtight partition dividing said casing into two oppositely disposed storage compartments, said ice chamber insertable inwardly of an opening in the top of said casing, fitted snugly and made fast thereto, a closure for said opening, a faucet attached to the lower part of said ice chamber and extending through the front walls of said casing, said ice chamber having along the vertical centers of its front and rear walls channels formed to extend outwardly of said ice chamber to provide a clearance for the passage of ice-hooks therein to facilitate the placing of ice within the container without injury to same.

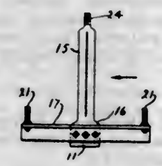
1,677,455. MELTED-ICE-WATER COOLER. JOSIAH LUCUS JONES, St. Petersburg, Fla. Filed Aug. 19, 1927. Serial No. 214,140. 1 Claim. (Cl. 62—142.)

A melted-ice-water cooler comprising an outer casing, a V-shaped transverse partition in said casing dividing it into an upper and lower compartment, a removable water cooler in the upper compartment and having a V-shaped bottom, said cooler being spaced from the walls of said casing and said partition, a faucet attached to the lower



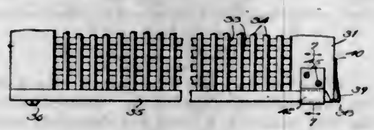
part of said tank and extending through the front walls of said casing, a drain beneath said faucet leading to a receptacle within said casing.

1,677,456. POLE TOP FIXTURE FOR TRANSMISSION LINES. WINFORD GLADSTONE MILNE, Hamilton, Ontario, Canada, assignor to The N. Slater Company, Limited, Hamilton, Canada. Filed May 23, 1927. Serial No. 193,645. 2 Claims. (Cl. 189—33.)



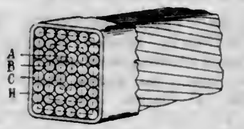
1. A pole top fixture comprising two superimposed arms overlapping each other and disposed angularly with respect to each other, one of the arms located at the end of the other arm, the latter arm being of angle section with the apex directed towards the former arm, said latter arm flattened at one end to form a flange in alignment with the edges of the legs of the angle, the former arm bearing against said flange, the extremity of the flattened flange bent towards the former arm to form a seat upon which the edge of said former arm rests, and means securing said arms together at their overlapping portions.

1,677,457. HEAT-EXCHANGE UNIT. ARTHUR B. MODINE, Racine, Wis. Filed May 28, 1926. Serial No. 112,376. 4 Claims. (Cl. 257—124.)



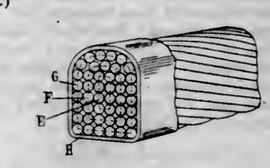
1. A radiator core comprising spaced tanks, tubular members extending between the tanks and communicating therewith, a reinforcing member having one of its ends rigidly secured to one of the tanks and having the other of its ends provided with a relatively flexible portion adapted to engage the other tank, and means secured to said other tank for retaining said flexible end in close proximity to said other tank.

1,677,458. STRANDED CABLE. CHARLES ALGERNON PARSONS, JESSEL ROSEN, ARTHUR WALLACE GREY, and RONALD WALTER MIDGLEY, Newcastle-on-Tyne, England; said Rosen, Grey, and Midgley assignors to said Parsons. Filed May 1, 1922, Serial No. 557,677, and in Great Britain May 17, 1921. 3 Claims. (Cl. 173—264.)



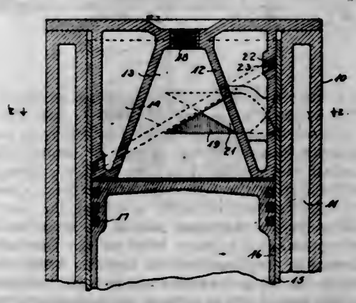
1. A method of manufacturing a flat-surfaced stranded electric conductor of rectangular cross-section which consists in helically laying in situ a basic series of strands in a two-line rectangular formation as seen in cross-section at recurrent intervals lengthwise of the conductor and helically laying in situ on said basic series a succession of rectangularly-disposed series of strands, each series being one-strand thick and having eight more strands than the subjacent series.

1,677,459. STRANDED CABLE. CHARLES ALGERNON PARSONS, JESSEL ROSEN, ARTHUR WALLACE GREY, and RONALD WALTER MIDGLEY, Newcastle-on-Tyne, England; said Rosen, said Grey, and said Midgley assignors to said Parsons. Filed Oct. 3, 1927, Serial No. 223,805, and in Great Britain May 17, 1921. 4 Claims. (Cl. 173—264.)



1. A method of manufacturing a stranded electric conductor of D-section, which consists in helically laying in situ a basic series of strands in a two-line rectangular formation as seen in cross-section at recurrent intervals lengthwise of the conductor and helically laying in situ on said basic series a succession of series of strands in D formation, each series being one-strand thick and having seven more strands than the subjacent series.

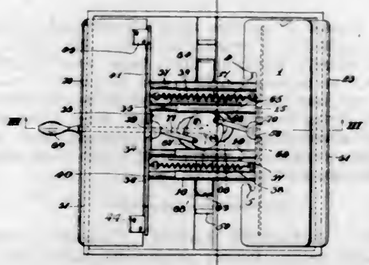
1,677,460. VALVE MECHANISM. ARTHUR W. POPE, Jr., Waukesha, Wis., assignor to Waukesha Motor Co., Waukesha, Wis., a Corporation of Wisconsin. Filed July 21, 1926. Serial No. 123,968. 3 Claims. (Cl. 123—190.)



1. In an engine, the combination of a cylinder having a combustion chamber, a rotary valve having a port adapted to communicate with said combustion chamber

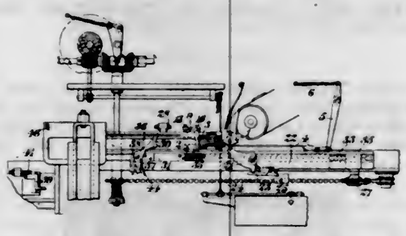
during the intake and exhaust strokes of the engine, and a unipianar sealing ring engaging said valve, the plane of said ring being at an angle with the cylinder axis and the ring being positioned to pass entire below the valve port and to seal the valve port from the combustion chamber during the compression and firing stroke.

1,677,461. LOOSE-LEAF-SECURING MECHANISM. RICHARD FITZ POWER, London, England, assignor to Morland & Impey Limited, Birmingham, England. Filed Jan. 29, 1926, Serial No. 84,599, and in Great Britain May 25, 1925. 17 Claims. (Cl. 129—1.)



1. In a loose leaf securing system in which the leaves are secured by a binding mechanism having spring-controlled anchoring bars reciprocable against the spring action, the combination of a base frame, a pair of abutment plates supported in the said base frame, and mechanical means adapted to reciprocate the said abutment plates when operated with the binding mechanism placed on the said base frame, whereby to effect the movement of the anchoring bars and the release of leaves contained in the said binding mechanism.

1,677,462. MATRIX-SETTING AND TYPE-LINE-CASTING MACHINE. KARL RÖGER, Berlin, and HANS SCHOENLEBEN and FRITZ WALTHER, Plauen, Germany. Filed Dec. 27, 1927, Serial No. 242,862, and in Germany Apr. 18, 1925. 23 Claims. (Cl. 199—26.)



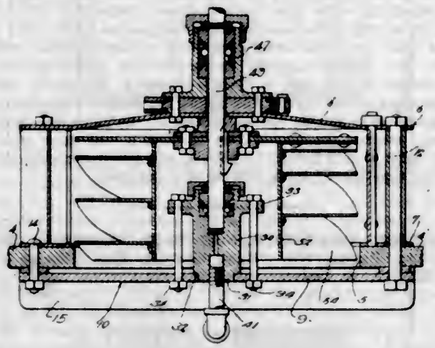
1. In a matrix-setting and line casting machine, mechanism for building up a line of matrices and for transferring it towards casting position, comprising in combination, an assembling-abutment, means for feeding the matrices against said abutment so that it moves toward casting position during the formation of said line, a rearward transferring abutment arranged to engage the rear end of a completed line of matrices, means for withdrawing the assembling-abutment from in front of the line when the line is complete and for returning it to its initial position, a forward movable transferring-abutment arranged to support the end of the line freed by said assembling-abutment which two transferring abutments are arranged to convey the line of matrices between them toward the casting position.

1,677,463. TOY WOODPECKER. JAMES W. SNEDEKER, Adrian, Mich., assignor to Page Steel & Wire Company, a Corporation of New Jersey. Filed July 20, 1926. Serial No. 123,606. 2 Claims. (Cl. 46—40.)



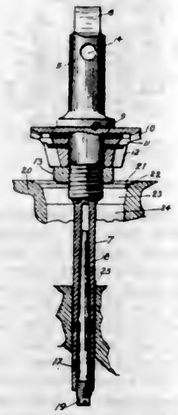
1. A toy comprising a rod, and a member simulating a bird, having a body with a head provided with a beak directed toward the rod, and a connector extending from the body in a position corresponding to the feet of the bird and mounted slidably upon said rod and adapted to support said body closely adjacent to the rod, and so that the beak oscillates toward and away from said rod, as said connector moves lengthwise along said rod, simulating the action of a bird pecking at a tree.

1,677,464. WATER WHEEL. STEPHEN H. TAYLOR, Ludlow, Ky. Filed July 3, 1923. Serial No. 649,348. 1 Claim. (Cl. 253—117.)



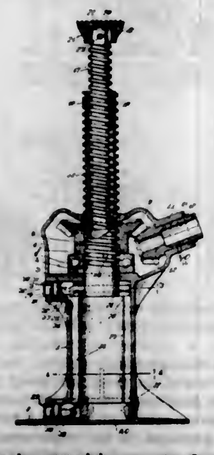
In a device of the class described, a base having an opening, an inverted channel bar extended across the opening and including a body and depending flanges, a frame including a top plate and a bottom ring resting on the base, a securing element connecting the top plate, the bottom ring, and the base, with the body of the channel bar, a securing element connecting the bottom ring and the base with the body of the channel bar, a bearing supported on the body of the channel bar, a securing element connecting the bearing with the body of the channel bar, an oil pipe connected to the lower end of the bearing, the juncture between the oil pipe and the bearing and the lower ends of all of the securing elements specified, being housed between the depending flanges of the channel bar, a shaft journaled in the bearing, and a water wheel carried by the shaft, the water wheel including a tubular part into which the bearing extends.

1,677,465. VALVE-SEAT REAMER. MAXIMILIAN W. THAETE, Denver, Colo., assignor of one-half to Millie J. Thaete, Denver, Colo. Filed Apr. 19, 1926. Serial No. 103,026. 2 Claims. (Cl. 90—12.5.)



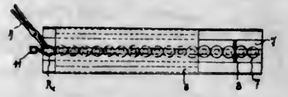
1. In a reamer, a shaft, a valve seat cutter mounted thereon, a pilot cutter also mounted on the shaft and adapted to cut prior to the reaming by the valve seat cutter to direct the first-mentioned cutter and to keep same in alinement while the reamer is in operation, and means at the lower portion of the shaft below the cutters to hold the reamer vertical while reaming.

1,677,466. LIFTING JACK. WARREN H. WALKER, JOSEPH J. MIZER, and IRWIN E. DEARSLEY, Racine, Wis., assignors to Walker Manufacturing Company, Racine, Wis., a Corporation of Wisconsin. Filed Oct. 1, 1924. Serial No. 740,958. 21 Claims. (Cl. 254—102.)



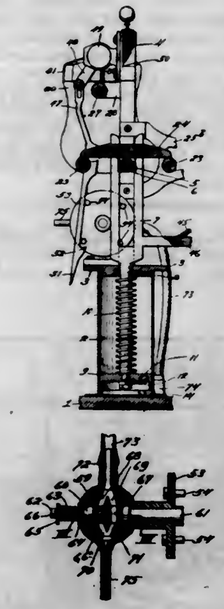
1. A lifting jack comprising a standard, a rotatable interiorly threaded driving member mounted in the standard, an exteriorly threaded sleeve meshing within the driving member and having an interiorly threaded nut in its upper portion, a screw meshing within this nut, a projection extending laterally from the lower end of the sleeve, vertically extending guiding means in the standard preventing rotation of the projection during the vertical travel of the sleeve, the projection passing out of engagement with the guiding means when the sleeve reaches one limit of its vertical travel, and a pawl positioned adjacent this end of the guiding means cooperating with the projection to prevent rotation of the sleeve in one direction only.

1,677,467. FURNACE FOR HEATING RIVETS BY MEANS OF OXYGEN AND ACETYLENE GASES. FERNAND BOURLEAUX, St.-Quentin, France. Filed Feb. 5, 1927, Serial No. 166,230, and in France Feb. 22, 1926. 7 Claims. (Cl. 263—9.)



1. In a furnace for heating rivets, a tunnel-furnace, means to introduce rivets into the same at one extremity thereof and an oxy-acetylene blow pipe at the other extremity of the tunnel to direct its flame through the tunnel.

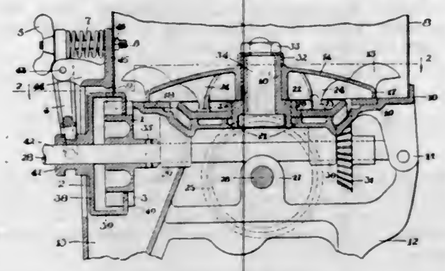
1,677,468. PERFUME-VENDING MACHINE. SAMUEL M. COFFMAN, Kansas City, Mo., assignor, by mesne assignments, to Old World Parfum Company, Kansas City, Mo., a Corporation of Missouri. Filed Nov. 9, 1925. Serial No. 67,943. 8 Claims. (Cl. 299—96.)



1. In a machine of the character described, a valve casing having an upright port, an inverted air-tight liquid-container clamped on the casing in communication with said port, the casing also having an air-supply port disposed angularly with respect to the liquid-supply port and a discharge port, a rotatable valve mounted in the casing and provided with a pair of independent diametric ports angularly-disposed relatively to each other for

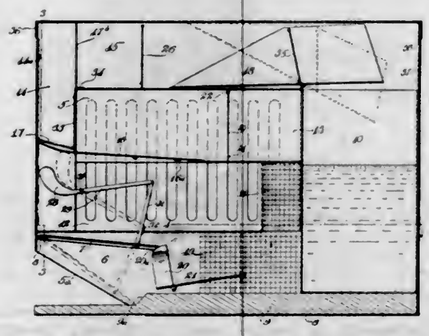
alternately establishing communication with the liquid-supply port and between the air-supply port and discharge port, means for rotating the valve to effect the adjustments mentioned, and means for supplying air under pressure to the air-supply port after each rotary adjustment of the valve to effect the discharge in atomized condition, of the liquid contained in the valve port, at such time, in communication with the discharge port.

1,677,469. COTTON PLANTER. SAMUEL K. DENNIS, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Sept. 13, 1926. Serial No. 134,997. 21 Claims. (Cl. 221—125.)



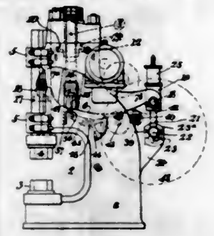
16. A seed feeding mechanism for cotton planters comprising, in combination, an upright cylindrical hopper having a discharge outlet at one side, an agitator rotatable within the hopper to maintain a supply of seeds at the outlet, a toothed picker wheel having seed engaging teeth the points of which are curved forwardly in the direction of rotation of the wheel, means for so mounting the picker wheel that the seed engaging teeth pass through the hopper outlet in proximity to the outer parts of the agitator, a cup-shaped feed regulator adapted to substantially enclose the picker wheel, inwardly extending scalloped portions on the feed regulator closely fitting the toothed portions of the picker wheel, and spring resisted operating means for sliding the feed regulator lengthwise of the teeth of the picker wheel so as to uncover or cover more or less of the seed engaging teeth.

1,677,470. ANIMAL TRAP. MAX E. DORSCH and FLORENCE G. DORSCH, Chicago, Ill. Filed Feb. 12, 1926, Serial No. 87,885. Renewed Dec. 14, 1927. 4 Claims. (Cl. 43—76.)



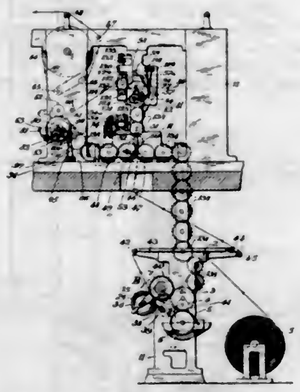
4. In an animal trap having an entrance chamber and a communicating passageway, a door for said entrance chamber, animal actuated means operable in said passageway to open said door, said passageway having a restricted outlet adjacent said animal actuated means and said outlet being so positioned with respect to said animal actuated means as to assure the operation of the latter by the animal in forcing himself through said passageway.

1,677,471. ELECTRICALLY-DRIVEN FORGING PRESS. AUGUST FRIEDERICI, Cologne-Mulheim, Germany, assignor to Max Friederici, Steubenville, Ohio. Filed May 13, 1926, Serial No. 107,807, and in Germany July 14, 1925. 2 Claims. (Cl. 78—32.)



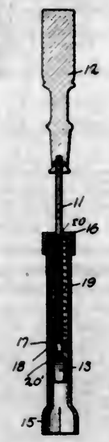
1. In a forging press having an anvil and a reciprocatory ram, a rocking lever for reciprocating said ram, a vertically adjustable fulcrum for said rocking lever, a crank shaft, overpressure relief means operatively connecting said crank shaft and said lever, and adjustable means for limiting the downward movement of the end of said lever opposite from said ram, said means including a cam shaft, a cam on said shaft adapted to engag and limit the downward movement of said lever, and means operable by the vertical movement of said fulcrum for rotating said cam shaft to vary the position of said cam and thereby vary the downward movement of said lever.

1,677,472. MULTICOLOR ROTARY PRINTING PRESS. FRIEDRICH FUCHS, Zofingen, Switzerland, assignor to the Firm Ringler & Co. Verlagsanstalt & Vereinigte Buch- & Steindruckereien, Zofingen, Switzerland. Filed Nov. 11, 1926, Serial No. 147,725, and in Switzerland Oct. 8, 1926. 9 Claims. (Cl. 101—152.)



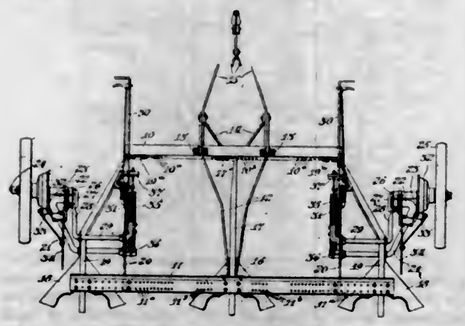
2. A mechanism for automatically regulating the register with multicolor rotary printing presses, comprising in combination a number of printing mechanisms for different colors each provided with an impression cylinder, two feelers provided in front of every printing mechanism except the first and adapted to cooperate with holes in the web, one of said feelers being swingably mounted about an axis arranged in the transverse direction of the web, and the other feeler being swingably mounted about an axis arranged in the longitudinal direction of the web, means adapted to vary the tension of the web, means adapted to cause an axial displacement of an impression cylinder and a displacement of said feelers in the transverse direction of the web, and relay means controlled by said feelers and controlling the operation of said means.

1,677,473. SOCKET WRENCH AND SCREW DRIVER. WILLIAM WALTER GAST, Baltimore, Md. Filed Jan. 12, 1927. Serial No. 160,712. 2 Claims. (Cl. 7—1.)



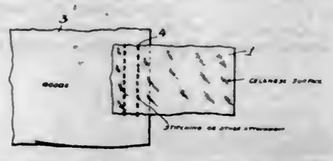
1. In a tool of the class described, a shank having a screw-engaging bit at one end and a handle at the other end, a tubular body enclosing the shank, a cap at one end of the body having an opening slidably accommodating the said shank a collar secured within the body intermediate the ends thereof and guiding the shank in its sliding movement, the said body having a polygonal nut-engaging socket at its other end, an abutment element upon the shank, and a spring upon the shank within the body bearing at one end against the collar and at its other end against said abutment element and yieldably holding the shank retracted within the said body.

1,677,474. TRACTOR LISTER. WILLIAM S. GRAHAM, Canton, Ill., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Feb. 6, 1924. Serial No. 690,898. 10 Claims. (Cl. 97—234.)



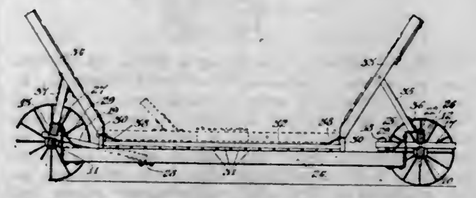
1. A convertible lister comprising the combination of front and rear transversely extending frame bars with the rear bar extending beyond the front bar at each side, a centrally located plow carrying beam removably secured to the bars, and a plow carrying units mounted between the respective outer portions of said bars and adjustable to selective portions towards and from the middle thereof, each unit comprising a supporting wheel carried on a forwardly inclined crank axle adjustably journaled on the unit and located on the outer side of said beam and towards the forward end thereof.

1,677,475. LABEL OR TAB FOR USE WITH GOODS WHICH HAVE TO BE DYED. OSWALD GUNNELL, Bottle, near Liverpool, England. Filed May 9, 1924, Serial No. 712,170, and in Great Britain May 10, 1923. 1 Claim. (Cl. 40—2.)



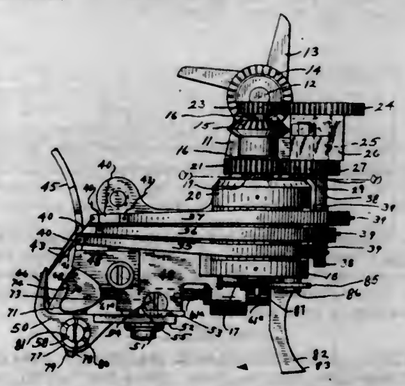
The improved method of identifying goods which have to be dyed which consists in attaching to the said goods an identifying tab or label composed of a fabric tape of Celanese and cotton yarn, so that the surface is mainly composed of Celanese.

1,677,476. CONVERTIBLE RUNNING GEAR FOR WAGONS. CLINTON A. HAGADONE, Western Springs, Ill., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Jan. 10, 1924. Serial No. 685,347. 6 Claims. (Cl. 296—3.)



2. In an attachment for the running gear of a wagon having front and rear bolsters and front and rear bounds, a plurality of spaced body supporting sills connected to the bolsters, and a cross plate on said sills for supporting the rear bound thereon.

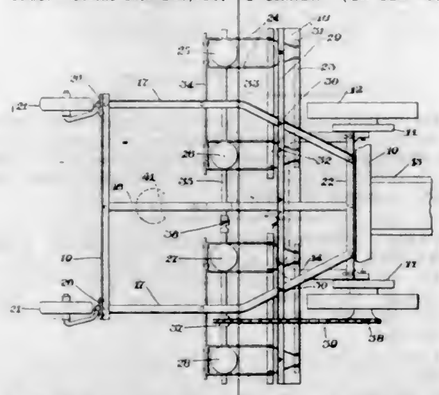
1,677,477. STRIPING ATTACHMENT FOR KNITTING MACHINES. LEON S. HERBERT, Cynwyd, Pa. Filed Mar. 2, 1923. Serial No. 622,303. 2 Claims. (Cl. 66—140.)



1. In a striping attachment for circular rib knitting machines having a circular series of needles, a pattern member and an actuating device between said member and said attachment, a frame, a yarn binder fixed to said frame, said binder consisting of a bracket fixed to said frame, a rod in said bracket, a pair of finger

blades engaging said rod and said bracket means for elastically holding said blades normally together, a tucking blade adapted to tuck yarn between said finger blades, there being registering edges on said finger blades adapted to grip said yarn after the same has been tucked by said tucking blade between said edges and a guard blade having a notched bend in its yarn contacting edge.

1,677,478. TRACTOR PLANTER. JAMES L. HIPPLE, Canton, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Oct. 11, 1926. Serial No. 140,713. 4 Claims. (Cl. 111—59.)



1. The combination comprising a vehicle having rear traction wheels, a horizontally extending arched bar between the wheels the arms of which are pivoted to the vehicle for free vertical movement, a transverse frame member secured to the bight of the arched bar and extending laterally beyond the traction wheels, rearwardly extending frame members secured to the transverse bar and supported at their rear ends on caster wheels, said caster wheels being on the tread line of the traction wheels and tillage implements secured in spaced relation throughout the length of the transverse frame member and symmetrically disposed at each side of the tread line of said wheels.

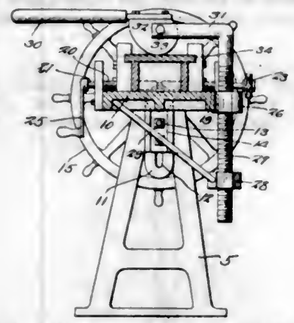
1,677,479. KAFIR-CORN-CUTTING ATTACHMENT. ANDREW L. JOHNSON, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Sept. 25, 1925. Serial No. 58,513. 10 Claims. (Cl. 56—298.)



1. The combination with a platform comprising a frame having a conveyer thereon, of a cutting mechanism rigidly carried at the front side of the platform and disposed in a vertical plane, and means for operating the cutting mechanism in such position.

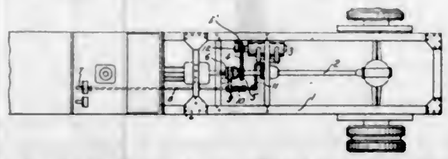
1,677,480. CONCRETE-BLOCK MACHINE. BENJAMIN F. KREHBIEL, Wichita, Kans. Filed July 7, 1927. Serial No. 204,106. 5 Claims. (Cl. 25—41.)

1. An apparatus for molding plastic material including supporting members having bearings, shafts resting in the bearings, arms on the shafts and having elongated openings, a base plate having depending arms formed with openings, bolts extending through the elongated openings and openings of the arms of the base plate to adjustably support the base plate, adjustable side members forming



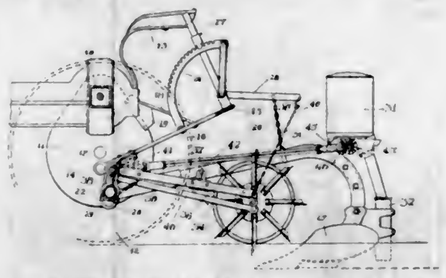
a part of the mold, a pallet for the mold and an adjustable pressing member contacting with the pallet to removably secure the pallet to the side members.

1,677,481. VEHICLE BRAKE. BERT A. LAREVA, Spokane, Wash. Filed Mar. 23, 1927. Serial No. 177,568. 2 Claims. (Cl. 188—99.)



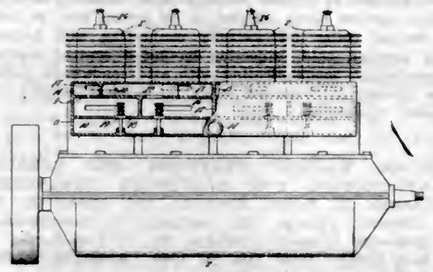
1. In a fluid braking system the combination with its crank shaft having a sprocket wheel, of a vehicle propeller shaft having a friction clutch, a sprocket wheel and a chain connecting said wheels, a pedal actuated control lever and a valve for the fluid braking system, operating means for the clutch and means for normally holding the clutch open, and means connecting the clutch operating means with the control lever.

1,677,482. TRACTOR ATTACHMENT. ALEXUS C. LINDGREN, Chicago, and ARTHUR D. GALLAGHER, Canton, Ill., assignors to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Sept. 17, 1926. Serial No. 136,072. 5 Claims. (Cl. 111—63.)



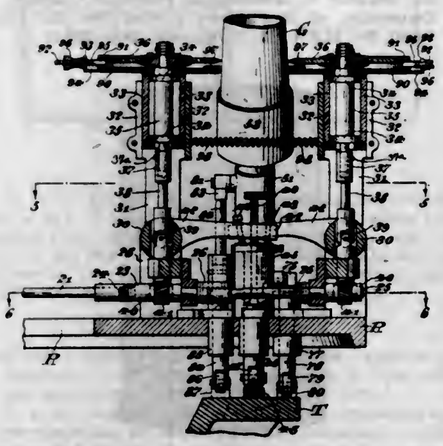
1. The combination with a tractor, of an implement attachment comprising a transverse draft bar, means for pivotally supporting said draft bar on the tractor, an implement beam secured to each outer portion of said draft bar, a driven implement carried thereby, a trailing frame pivoted on the central portion of said draft bar, a ground engaging drive wheel journaled in said frame, driving connections between said wheel and implement, means on the tractor for lifting and lowering each implement beam individually, and means for lifting and lowering the trailing frame upon actuation of either beam lift.

1,677,483. ENGINE. DANIEL MAGUSIAK, Detroit, Mich. Filed May 31, 1927. Serial No. 195,558. 2 Claims. (Cl. 123—59.)



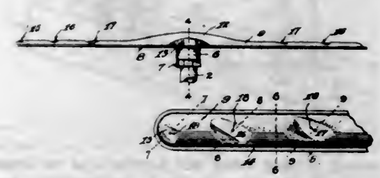
2. A two cycle engine of the class described comprising a pair of cylinders, each provided with an enlarged inner portion forming a compression chamber, a piston in each cylinder having an enlarged lower end operating in the compression chamber, a casing arranged at one side of the cylinders, horizontal partitions in the chamber dividing the same into three compartments, means for connecting the lower compartment to a carbureter, vertical partitions in the central compartment dividing the same into lower intake chambers, the lower horizontal partition having ports therein connecting the chambers with the manifold, spring pressed valves normally closing said ports, each cylinder having a port therein for connecting each intake chamber with its compression chamber, vertically arranged Z-shaped partitions in the top compartment dividing the same into upper intake chambers and the upper horizontal partition having ports therein, each of which connects the upper chamber of one cylinder with the lower chamber of the next cylinder, each cylinder having an inlet port leading to the upper intake chamber and an exhaust port, the inlet and exhaust ports being uncovered when the piston reaches the end of its downward stroke, a crank shaft and means for connecting the pistons thereto.

1,677,484. GRINDING APPARATUS. JOHN A. MILLIKEN, Ambler, Pa., assignor to John E. Marsden, Philadelphia, Pa. Filed Apr. 17, 1923. Serial No. 632,749. 58 Claims. (Cl. 51—107.)



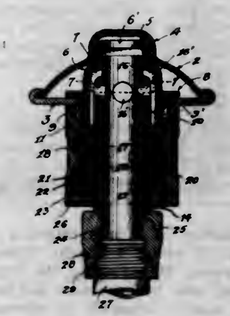
1. A grinding apparatus of the character described comprising relatively spaced rotatable grinders, a rotatable work holder interposed between said grinders, a power shaft for actuating said grinders, and means whereby the grinders may be adjusted with respect to the power shaft and axially of said work shaft.

1,677,485. SPRINKLER. LEWEN R. NELSON, Peoria, Ill. Filed June 9, 1924. Serial No. 718,721. 14 Claims. (Cl. 299—69.)



14. A sprinkler comprising a supporting pipe and a head rotatably mounted on said pipe, said head including a tube extending laterally of said pipe and having a plurality of discharge openings along the length thereof, the axes of the bores of successive openings from the center of rotation outward intersecting the plane of rotation of the tube at progressively decreasing angles, said axes lying in different planes normal to the plane of rotation, the outlets of said openings being in substantial alignment.

1,667,486. LAWN SPRINKLER. LEWEN R. NELSON, Peoria, Ill. Filed Dec. 16, 1925. Serial No. 75,729. 11 Claims. (Cl. 299—69.)

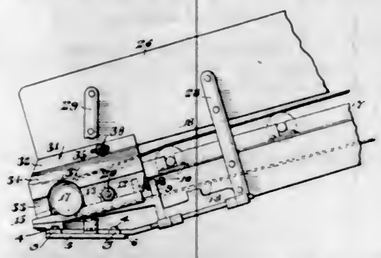


1. A sprinkler adapted for rotation including in its construction a hollow relatively long and narrow head made from a stamping and comprising an upper longitudinally domed wall and a lower separate wall the edges of which walls are lapped one upon the other, a tubular member enclosed between the walls of the head terminating at one end within the upper domed wall and opening into the head, said member having a flange to engage upon the inner surface of the lower wall and at its other end extending through said lower wall, and a part outside the head engaging with the member and clamping the lower wall between itself and the flange of said member.

1,677,487. CONVEYER. JOSEPH F. NOECKER, Bloomfield, Nebr. Filed Nov. 8, 1926. Serial No. 147,061. 5 Claims. (Cl. 198—230.)

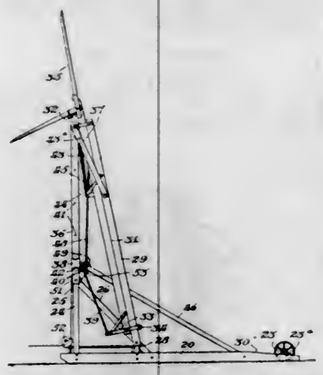
1. A means for shielding the lower end of an endless conveyer belt from mud and dirt in a conveyer of the type including a pair of side plates and lower roller bearing plates arranged below the lower ends of the side plates, comprising a pair of oppositely disposed

guards, each of said guards consisting of a lower end portion for connecting to a bearing plate, an upper end portion for connection to a side plate and inset



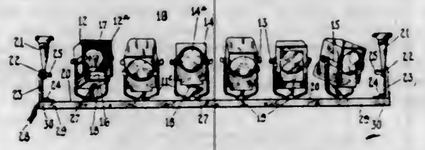
with respect to said lower end portion and an inwardly extending and inwardly inclined intermediate portion integral with said end portion.

1,677,488. STACKER. CHARLES PEARSON, Chicago, Ill., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed May 16, 1923. Serial No. 639,243. 9 Claims. (Cl. 214—141.)



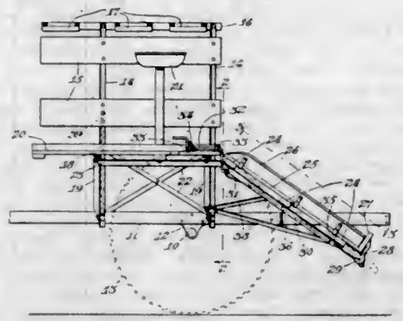
1. The combination of a base frame, a lifting frame pivoted thereon to swing vertically through a predetermined arc, means for swinging the lifting frame, a spring carried on said lifting frame and bodily movable therewith, and means actuated by movement of said frame for putting the spring under tension at both ends of the arc of movement of the frame.

1,677,489. MOUNTING FOR LANTERNS. WILLIAM E. PRICE, White Plains, N. Y. Filed Sept. 19, 1924. Serial No. 738,644. 1 Claim. (Cl. 240—3.)



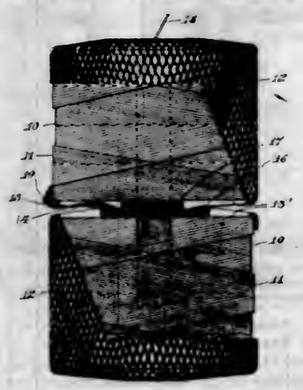
In a lighting unit, a frame member of U-shaped section having a cover portion fitted over the upturned edges thereof to form a conduit, a series of electrically lighted lanterns each supported between the forked arms of a bracket, a swivel mounting for connecting each bracket to the frame member, and feeder conductors carried in said conduit to supply power to the lanterns, said mounting comprising an anchoring projection having its free end portion reduced in cross-section to form a shoulder, and a supporting frame member having an opening therein to receive said reduced end portion to extend through said member, said reduced portion being adapted to be peened over to form a flanged collar for swivelly connecting said bracket and member, said projection having a central opening therethrough communicating with said conduit to permit the passage of conductor wires for connection with the feeder conduitors.

1,677,490. BAGGING PLATFORM AND CARRIER ATTACHMENT FOR HARVESTER THRASHERS. CLEMMA R. RANEY, Riverside, and ARNOLD E. W. JOHNSON, Chicago, Ill., assignors to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Jan. 21, 1926. Serial No. 82,693. 2 Claims. (Cl. 214—65.)



1. The combination with a harvester thrasher having a transverse axle and a frame, of a bagging platform and a bag carrier attachment therefor, said attachment comprising a horizontally disposed operator's platform carried on the frame substantially entirely forwardly of the axle and an inclined chute disposed substantially rearwardly of the axle, a normally locked tail board for the chute, and means for releasing the tail board to dump the load from the chute.

1,677,491. TWINE BALL. GEORGE L. RICE, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Oct. 12, 1925. Serial No. 61,874. 1 Claim. (Cl. 242—159.)



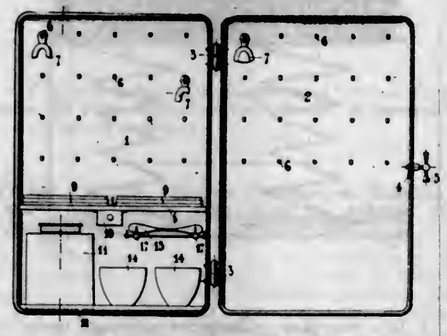
As an article of manufacture, a ball of twine having a cylindrical body and flat ends and having a cylindrical axial opening therethrough, and having a cover winding which at one end of the ball is spaced from the edge of the opening to leave an uncovered area surrounding said opening, the cover winding at the other, end of the ball extending to the edge of the opening.

1,677,492. APPARATUS FOR HEATING SHEET MATERIAL IN PREPARATION FOR FOLDING. GEORGE RITTER, Woodbridge, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia. Filed Dec. 26, 1925. Serial No. 77,810. 3 Claims. (Cl. 263—2.)



1. In apparatus for heating bituminous roofing material in preparation for folding, the combination of a table having one side recessed and over which the material is continuously passed, and heating means including opposed jet burners accommodated in the table recess and between which the material is passed edgewise for heating over a limited lateral area in the line of travel.

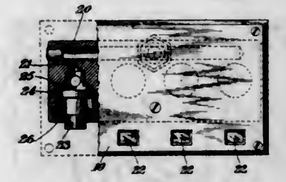
1,677,493. CONTAINER FOR DENTAL IMPRESSION OUTFITS. GEORGES ROBINET, Paris, France. Filed Nov. 22, 1924, Serial No. 751,596, and in France Nov. 28, 1923. 2 Claims. (Cl. 312—175.)



1. In a container for dental impression outfits embodying a pair of hinged shells, a spatula rack, means projecting from the wall of one shell, means connecting the rack to the projecting means whereby the rack is movable outwardly and inwardly of the shell, and inclined slots in the rack adapted for the reception of spatulas.

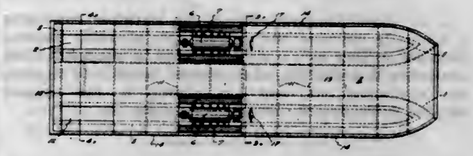
1,677,494. MOTOR-INDICATING SYSTEM. EDWARD A. ROCKWELL, New York, N. Y. Filed Mar. 3, 1924. Serial No. 696,493. 11 Claims. (Cl. 116—118).

7. A level indicating device for internal combustion engines comprising an indicating means comprising a vacuum-operated plunger, a connection therefrom to a source of vacuum, a level registering device comprising a float positioned according to a liquid level in the engine equipment, a vacuum connection between the level registering device and the indicating means communicating with said first mentioned connection between the source of vacuum and the plunger and a vent having an outlet above the



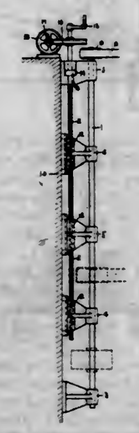
highest liquid level adapted to be thrown into and out of communication with the vacuum connection by the registering device according to the liquid level.

1,677,495. MOTOR BOAT. HENRY SCHMITT, Detroit, Mich. Filed Mar. 14, 1927. Serial No. 175,155. 6 Claims. (Cl. 114—66.5.)



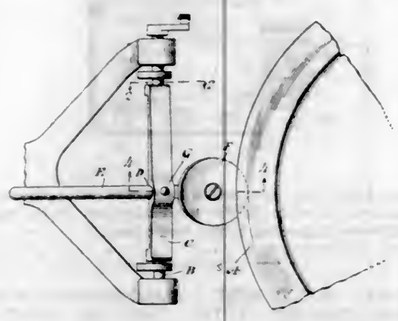
1. A boat including a plurality of hulls and a rearwardly and downwardly inclined deck for said hulls rigidly connecting the same and having an under smooth surface forming an air-plane between said hulls when the boat is proceeding forwardly.

1,677,496. CRITICAL-SPEED CONTROL. CHARLES ROBERT SESSIONS, San Francisco, Calif., assignor of one-half to John A. Dent, Lawrence, Kans. Filed May 29, 1922. Serial No. 564,665. 7 Claims. (Cl. 308—31.)



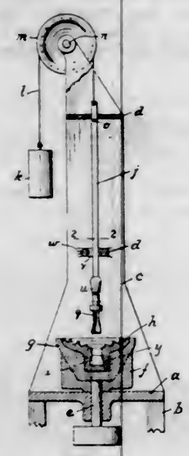
2. An apparatus to control the frequency of vibration of a driven shaft comprised of a bearing arranged adjacent an end of the shaft in proximate contact therewith; and means to move the bearing axially relative to said shaft as the critical speed of the shaft varies.

1,677,497. ABRADING DEVICE. PETER SIVERTSEN, New York, N. Y. Filed Nov. 24, 1925. Serial No. 71,062. 2 Claims. (Cl. 51—248.)



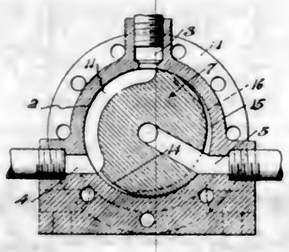
1. An abrading device for slicing machines combining a manually operable bar, a rotatable abrading element mounted on said bar, a stationary bar, a support having oppositely disposed dependent flanges adapted to straddle the stationary bar, and an opening in the support adapted to receive the manually operable bar.

1,677,498. APPARATUS FOR UNDERCUTTING PIN-HOLES IN THE CENTER SHELLS OF INSULATORS. WILLIAM HENRY SMITH, Norristown, Pa., assignor, by mesne assignments, to Electric Service Supplies Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 11, 1927. Serial No. 160,508. 10 Claims. (Cl. 25—3.)



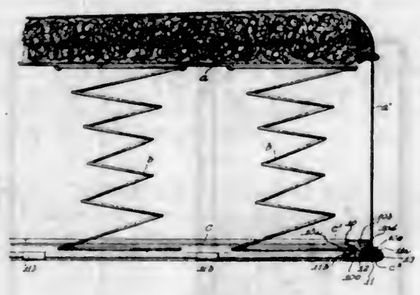
1. In apparatus for undercutting the pin holes of center shells for insulators, in combination, a support for a center shell and a cutting tool supported for vertical and transverse movement relative to said support, and means associated with said tool for preventing the material removed from interferring with the cutting edge of said tool.

1,677,499. ROTARY VALVE. WILLIAM J. SMITH, Philadelphia, Pa. Filed Nov. 19, 1927. Serial No. 234,839. 5 Claims. (Cl. 251—104.)



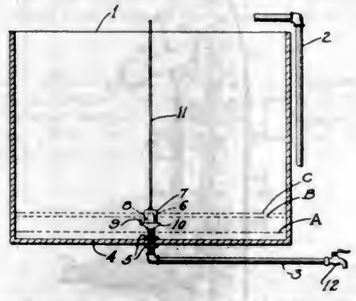
1. A valve comprising a casing provided with an inlet port and with discharge ports, and a rotary valve provided with an inlet passage and with a return conduit, and with tapering grooves communicating respectively with the inlet passage and with the return conduit.

1,677,500. RIM-FRAME CONSTRUCTION. DOUGLAS S. STILES, Detroit, Mich., assignor to Premier Cushion Spring Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 2, 1923. Serial No. 655,191. 2 Claims. (Cl. 155—180.)



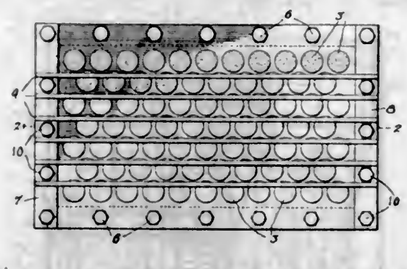
1. In a rim frame assembly for upholstery spring constructions, an element of sheet metal having a shaped cross-section in which an intermediate portion is of channel formation with the channel located between a pair of parallel walls forming the upper and lower faces of the element, the margins of such walls being bent inwardly toward a medial plane parallel to such walls to secure a filling strip between such margins and the bottom of the channel, the upper and lower margins extending on different planes relative to a vertical plane through the filling strip to form a face extending on different planes, the lower margin projecting outward beyond the upper margin, a sheet metal element having a cross section to produce a portion underlying and in contact with the bottom wall of the first element and a portion adapted to overlie the lower margin of the first element in spaced relation to produce with such margin a curtain-margin receiving cavity, the spacing being determined by the dimensions and form of the curtain margin, and means for securing the elements together to maintain the cavity dimensions.

1,677,501. LIQUID DRAW OFF. GEORGE B. STONE, Los Angeles, and FRED D. MICHAELS, Fresno, Calif. Filed May 17, 1927. Serial No. 191,985. 3 Claims. (Cl. 210—51.)



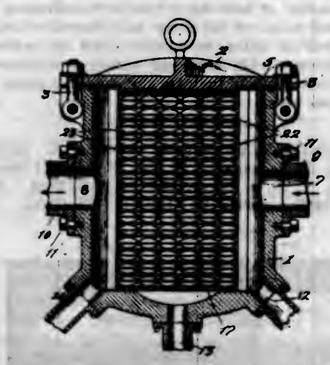
1. A draw off for liquid storage tanks, constructed as a unit and comprising a nipple, an open bottomed bell covering said nipple, and a guard surrounding the lower end of the bell.

1,677,502. GAS DIFFUSER. ERNEST J. SWEETLAND, Montclair, N. J. Filed Dec. 19, 1919. Serial No. 346,148. 6 Claims. (Cl. 261—121.)



1. A gas diffusing unit comprising a porous block having the pores thereof treated with, but unobstructed by a preserving substance.

1,677,503. FILTER. ERNEST J. SWEETLAND, Montclair, N. J. Filed Jan. 22, 1920. Serial No. 353,219. 12 Claims. (Cl. 210—178.)



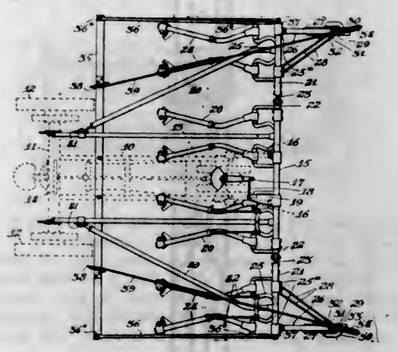
1. A filter comprising a one-piece casing provided with oppositely disposed channels, and a folded filter member within said casing having its lateral edges extending within said channels and folded therein to seal the edges of said filter member against the flow of solids therethrough without sewing or cutting said member.

1,677,504. SOFT COLLAR. GEORGE T. SWEETSER, Bronxville, N. Y. Filed Aug. 1, 1927. Serial No. 209,790. 3 Claims. (Cl. 2—141.)



1. A turn down collar comprising a neckband and an attached outer fold, one of said members having relatively narrow tabs at its opposite ends, each tab having a button hole, and means on the other member cooperating with each tab for connecting the said members, said tabs constituting the sole connecting means for attaching the ends of the collar to a collar button.

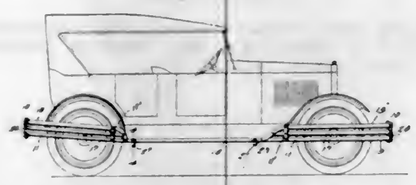
1,677,505. TRACTOR CULTIVATOR ATTACHMENT. CLARENCE YOUNG THOMSON, Sr., Chapman Ranch, Tex., assignor to International Harvester Company, a Corporation of New Jersey. Filed Jan. 6, 1927. Serial No. 159,268. 7 Claims. (Cl. 97—47.)



1. The combination with a tractor cultivator having a rigid frame member extending laterally therefrom to a point beyond the tractor wheel tread, of an extension for said member comprising a bar hinged to the end of said member for vertical movement, a caster wheel supporting said bar, and cultivating tools having beams connected to the bar.

5. An auxiliary gang attachment for tractor cultivators having widely spaced rear traction wheels, a rigid frame member extending across the front of the tractor and spanning the space between said wheels and cultivating tools carried by each end of said member within said space; said auxiliary attachments comprising extensions for the ends of said member each extension comprising a bar adapted to be hinged to the end of the member for vertical movement, a supporting bracket projecting from the forward side of said bar, a caster wheel swiveled in a bearing on said supporting bracket, cultivator beams connected to and trailing at the rear of said bar, a secondary frame bar adapted to be connected across the tractor on the rear thereof, and a thrust bar loosely connecting the end of the extension bar with said secondary frame member.

1,677,506. BUMPER. HENRY M. VICKERY, Oakland, Calif. Filed July 18, 1925, Serial No. 44,556. Renewed Dec. 16, 1927. 5 Claims. (Cl. 293—55.)



1. In combination with a motor vehicle, front and rear bumpers secured to and extending across the front and rear ends of the vehicle, side bumpers extending along the entire opposite sides of the vehicle, means connecting the opposite ends of the side bumpers to the front and rear bumpers and means secured to and extnding laterally from the frame of the vehicle to support the intermediate portions of the side bumpers.

1,677,507. CASING CUTTER. WILLIAM A. VOCK, Redondo Beach, and HARRY E. LYNN, Torrance, Calif. Filed May 12, 1925. Serial No. 29,737. 10 Claims. (Cl. 81—195.)



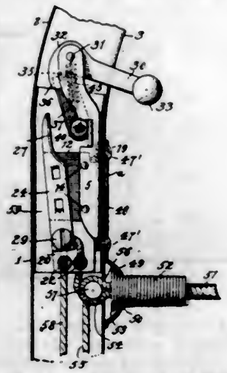
1. In a well casing cutter operable to cut by rotation, a body, a cutter carried by the body, a retaining member for the cutter, and means normally yieldingly holding the member in position to hold the cutter unactuated.

1,677,508. ART OF DYEING FIBERS. ALEXANDER WINOGRADOFF, New York, N. Y., assignor to Inecto, Inc., New York, N. Y., a Corporation of Delaware. Filed July 11, 1925. Serial No. 43,020. 11 Claims. (Cl. 8—5.)

1. In the art of dyeing fibers, treating the fibers with a solution of an inorganic iodide where the color is developed by the oxidation of a leuco-compound.

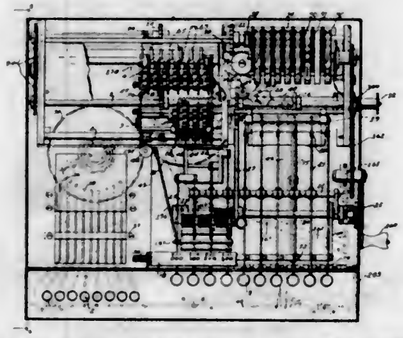
1,677,509. ELECTRIC SWITCH. MORRIS S. WRIGHT, Worcester, Mass. Filed Oct. 3, 1921. Serial No. 505,069. 18 Claims. (Cl. 200—67.)

1. An electric switch comprising a base, having horizontal flanges extending therefrom, stationary contacts carried by the base, a lever connected to the base, a movable arm operable by the lever, and rotatable contact points carried by the movable arm and adapted to engage the horizontal flanges of the base when the circuit



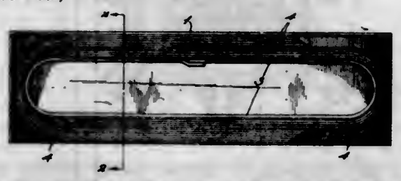
is broken and the stationary contacts when the circuit is made, the contact points being rotated upon each operation of the lever.

1,677,510. CASH REGISTER. SVEN ARTON, Chicago, Ill. Filed May 15, 1922. Serial No. 560,967. 5 Claims. (Cl. 235—23.)



1. A machine of the class described comprising accounting and indicating devices, an operating mechanism for said devices, a set of keys for controlling said operating mechanism, said accounting and indicating devices, operating mechanism and keys being so arranged that successive depression of said keys results in changing the denominational value of the entry and likewise changing from one class of entry to another, and an indicator extending across all the keys and having a step-by-step movement to successively indicate the changing value and function of the keys.

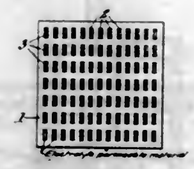
1,677,511. COLLAR PACKAGE. DONALD B. BECKER, Watervliet, N. Y., assignor to Geo. P. Ide & Company, Inc., Troy, N. Y., a Corporation of New York. Filed Apr. 20, 1926. Serial No. 103,348. 1 Claim. (Cl. 206—46.)



A collar package for laundered turn down starched collars comprising an elongated box, of an elongated

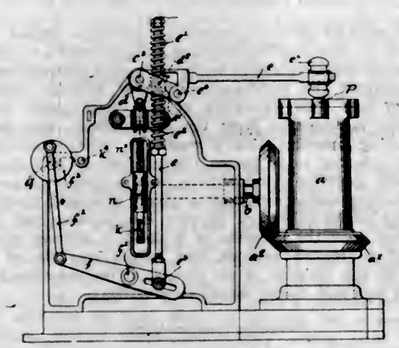
spacer in said box of less length and width than said box, and a series of separate sets of laundered turn down starched collars in flat or opened condition disposed between said spacer and the walls of the box, with the ends of one set adjacent one end of the box and the ends of another set adjacent the other end of the box.

1,677,512. SEPARATOR. RAYMOND C. BENNER, Bayside, N. Y., assignor, by mesne assignments, to Prest-O-Lite Storage Battery Corporation, a Corporation of Indiana. Filed Mar. 30, 1923. Serial No. 628,843. 4 Claims. (Cl. 136—146.)



1. A separator comprising a fibrous material bonded with an acid-resistant plastic and having pores obstructed with a material capable of yielding a gelatinous, acid-proof decomposition residue permeable by electrolyte.

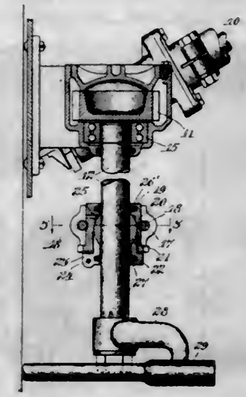
1,677,513. APPARATUS FOR BEATING GOLD LEAF OR SHEETS OF OTHER METAL AND SUCH LIKE. WILLIAM BLACKER, Stalybridge, England. Filed June 3, 1925, Serial No. 34,595, and in Great Britain Jan. 30, 1925. 4 Claims. (Cl. 78—100.)



1. An apparatus of the character described, comprising in combination, a rotatable work support, means for rotating said support, a hammer mounted for vertically swinging and laterally reciprocating movement above said support, means for swinging said hammer, a pivoted lever for imparting lateral motion to the hammer, means for swinging said lever thereby to move the hammer laterally, and means for changing the ratio of distance between the fulcrum of the lever, the point of application of the swinging means and the point of application of the lever thereby to multiply the action of said lever-swinging means.

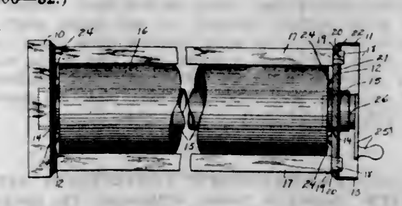
1,677,514. SELF-ALIGNING BEARING FOR SHAFTS. HARRY E. DERR, Sr., New York, N. Y., assignor to International Harvester Company, a Corporation of New Jersey. Original application filed Sept. 28, 1923, Serial No. 665,270. Divided and this application filed Jan. 12, 1925. Serial No. 1,766. 3 Claims. (Cl. 308—72.)

1. The combination of a steering shaft and a bearing therefor carried intermediate its ends and supported in a bracket mounted on the vehicle frame, said bearing comprising a concentric ball through which said shaft is slidable, an eccentric socket member housing said ball, a stud member threaded into said socket member for



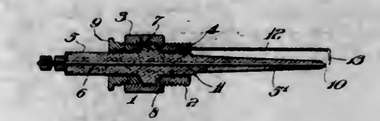
preventing dislodgement of said ball, and means cooperating with the bracket and socket member for preventing rotative movement of the socket member.

1,677,515. PACKAGE FOR PILE FABRICS AND THE LIKE. ANTOINE M. DURAND, New Haven, Conn. Filed Aug. 18, 1927. Serial No. 213,716. 9 Claims. (Cl. 206—52.)



1. A package for pile-fabrics and the like, comprising a pair of end-members; a fabric-mounting core extending between the said end-members; means for fastening the opposite ends of a roll of fabric to the respective end-members; and a plurality of spacing-bars extending between the said end-members to hold the same in spaced relation, and to prevent the fabric from crumpling.

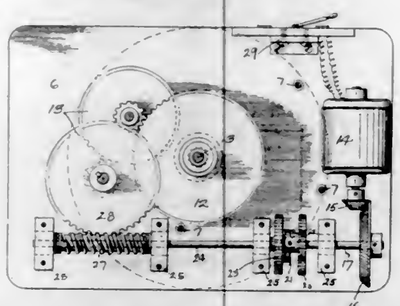
1,677,516. SPARK PLUG. IRVING W. FARQUHARSON, Media, Pa. Filed Jan. 24, 1925. Serial No. 4,413. 2 Claims. (Cl. 123—169.)



1. In a spark plug, a bushing the inner end of which has an unflanged, plane annular surface, an insulator core having an electrode therein carried by said bushing, a portion of said core being cylindrical and the major portion tapering at its inner end, and being exposed throughout said major portion, the juncture of said cylindrical and tapered parts forming a raised annular part 11 which is positioned immediately adjacent said bushing and said tapered part of the insulator core being at least twice the length of said bushing, and an additional electrode carried by the bushing the major portion of which parallels the tapered part of the core electrode and

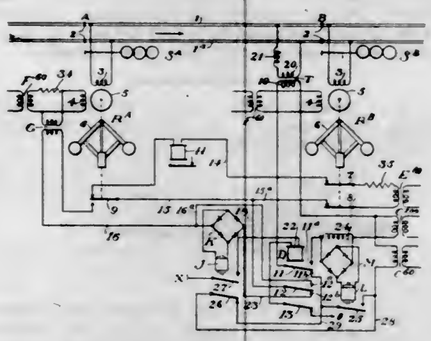
is of substantially the same length as said tapered part, the terminal of which is bent laterally at right angles toward the sparking point of the core electrode, but which does not extend therebeyond.

1,677,517. POWER-DRIVEN FRUIT PRESS. JOHN P. FERRARI, San Francisco, Calif. Filed Aug. 3, 1925. Serial No. 47,749. 2 Claims. (Cl. 74—7.)



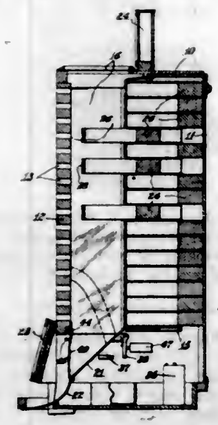
1. A device of the character described comprising a drum; a threaded shaft extending upwardly from said drum; a collar threaded on said shaft; a base plate secured to said collar; a reducing speed gear train, a gear mounted on the collar, said gear meshing with said reducing speed gear train mounted on said base plate; a worm shaft, a shaft journaled on said base plate; connected driving gears fixed on the shaft, change of speed gears movably mounted on said worm shaft, a worm on the end of the worm shaft; a worm gear in the gear train, said worm meshing with said worm gear, and a reversible motor for driving said first mentioned shaft to cause said collar and base plate to descend upon said threaded shaft.

1,677,518. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. ROBERT M. GILSON, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 14, 1926. Serial No. 135,405. 10 Claims. (Cl. 246—34.)



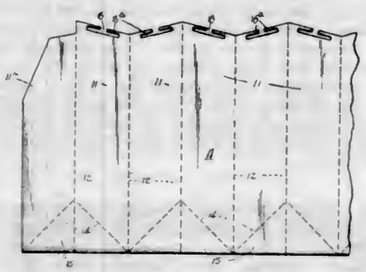
1. In combination, a section of railway track, a track relay having two windings one of which is energized from the track rails of the section, two sources of alternating current differing in frequency, means for constantly supplying current to the rails of said section from the first of said sources when said relay is closed and for supplying current alternately from the first and second sources to the rails when the relay is open, means for normally supplying the second winding of said relay with current of the frequency of said first source, and means for discontinuing the supply of current to said second winding when current is being supplied to the rails from said second source.

1,677,519. VENDING MACHINE. WALTER GOODCHILD and NATHAN SCLAR, Hoboken, N. J., assignors to Magic Device Corporation, Hoboken, N. J., a Corporation of New Jersey. Filed Mar. 24, 1925. Serial No. 17,868. 12 Claims. (Cl. 194—7.)



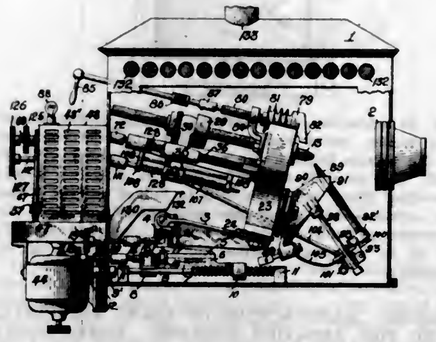
1. A vending machine embodying therein a casing, a plurality of merchandise receiving compartments, a slide containing electro-magnetic material in each compartment and engaging the merchandise therein, whereby movement of said slide outwardly of the compartment will eject the merchandise from the compartment, said casing having openings therethrough, an electro-magnetic plunger adapted to be passed through any of said openings into operative relation to a slide, a source of electrical supply, means arranged in circuit with said plunger and said source of supply whereby said plunger may be energized upon the insertion of a check, a delivery shelf adapted to receive articles, and means operable as a result of the delivery of an article by the machine for making said last named means inoperative.

1,677,520. EMERGENCY UMBRELLA. HERMAN O. GOTTESMAN, New York, N. Y. Filed Sept. 14, 1927. Serial No. 219,385. 7 Claims. (Cl. 135—20.)



4. An umbrella having a cover folded from a blank comprising a straight strip of material provided with substantially parallel spaced score lines disposed transversely of the length of the blank, the spaces between the score lines being provided with a T-shaped slot at the end forming the center of the cover, a tubular connection and guide projecting through said slots about which guide the plaits are unfolded in a rotary direction to form a circular device, and a stick insertable into said tubular connection, the portion of the cover material beyond the said slots being wedged between the stick and the interior wall of the tubular connection.

1,677,521. PROJECTOR LAMP. THEODORE HALL, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Aug. 24, 1921. Serial No. 494,818. 15 Claims. (Cl. 176—51.)



1. In an arc lamp, a metallic member having a seat for receiving a portion of an electrode adjacent the arcing end thereof, an arm for supporting the opposite end portion of said electrode, a support to which said arm is pivotally connected, a spring cooperating with said arm to maintain said electrode in firm contact with said seat, means for leading electric current to said seat and means for circulating a current of air under said seat to cool the same.

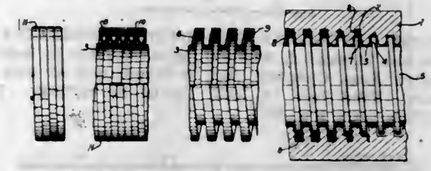
15. In an arc lamp, the combination with a pair of electrodes and separate feed control means for each electrode, of a motive means, a member continuously oscillated thereby, a pair of pawls moved by said member, the position of one of said pawls being controlled by the feed control means of one electrode, and the position of the other of said pawls being controlled by the control means of the other of said electrodes, a ratchet mechanism operated by each pawl for feeding the respective electrode, and a third continuously acting pawl and ratchet means operated thereby for rotating at least one of said electrodes.

1,677,522. TIE FOR BOX STRAPS. LEO M. HARVEY, Los Angeles, Calif. Filed Mar. 14, 1927. Serial No. 175,395. 7 Claims. (Cl. 24—20.)



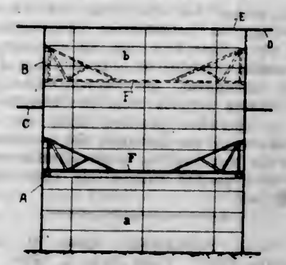
1. A tie for connecting the overlapping ends of flat box bands, consisting of two coaxial rolls with the edges of bands disposed adjacent to each other on the same side of the axis of the rolls, the walls of said rolls on the side of the axis opposite to the said edges having offset portions operating to stiffen the rolls to prevent the same from opening, and forming a plurality of shoulders on the rolls interlocking with each other to prevent longitudinal movement of the roll with respect to the other.

1,677,523. SOLIDIFIED-SEAM TUBE. WILLIAM K. HERBST, Hillside, and R. HARRY STONE, Irvington, N. J., assignors to Titeflex Metal Hose Co., a Corporation of New Jersey. Filed June 18, 1924. Serial No. 720,785. 3 Claims. (Cl. 113—35.)



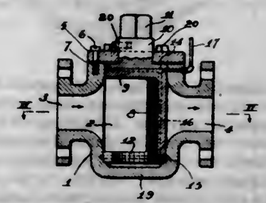
1. A flexible tube formed of a helically disposed strip, said strip having a longitudinal fold or groove adapted, in the completed tube, to form a corrugation to provide flexibility by relative movement of the corrugation sides, the edges of adjacent convolutions of said strip being interfolded to form a joint and a solidifying substance in said joint introduced therein as a fluid and hardened in the joint for rendering said joint immovable.

1,677,524. GASOMETER. KONRAD JAGSCHITZ, Mainz, Germany, assignor to Maschinenfabrik Augsburg-Nuernberg A. G., Nuremberg, Bavaria, Germany, a Corporation of Germany. Filed Feb. 26, 1926. Serial No. 90,980. 1 Claim. (Cl. 48—176.)



A gasometer of the disk type, comprising a shell having a movable disk closure therein, a stiffening member attached to and extending externally on said shell and capable of supporting an additional shell section superposed on said shell and attached thereto to thereby increase the capacity of the gasometer, and a sealing disk located within said shell member, there being no permanently necessary reinforcing means extending within said shell member, so that said disk may be raised without permanent necessary obstruction to a position within said additional section.

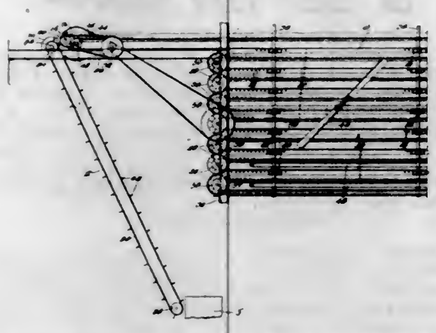
1,677,525. LUBRICATED PLUG VALVE. HALBERT P. MACGREGOR, Clayton, Mo., assignor to MacGregor Valve Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 5, 1927. Serial No. 181,114. 8 Claims. (Cl. 251—98.)



1. In combination, a valve body having a bore therethrough and a passage for liquid, and a shell of tubular shape, but cut away longitudinally so that its side

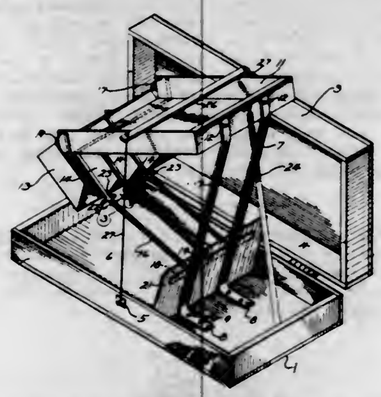
edges are free to move relatively, mounted for rotation in the bore with its outer surface fitting against the inner surface of the bore, and means for applying fluid under pressure between said surfaces so as to spring the shell slightly away from said surface of the bore.

1,677,526. CONVEYING AND DRYING APPARATUS. NORMAN MARSHALL, Waltham, Mass., assignor to Remington Arms Company, Inc., a Corporation of Delaware. Filed June 15, 1921. Serial No. 477,849. 7 Claims. (Cl. 198—20.)



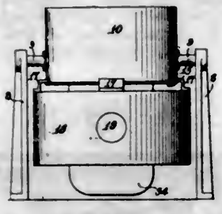
1. An apparatus for conveying and drying tubular articles having, in combination, an overhead dryer, comprising an endless link belt, an elevator for raising successive tubular articles to near the top of the dryer, transferring mechanism for automatically picking off successive tubular articles from the elevator and placing them in operative position upon the dryer, and means for operating the elevator, the transferring mechanism and the link belt in timed relation whereby the tubes will be deposited successively upon the adjacent links of the belt.

1,677,527. NAIL STRIPPER. FRED. M. MURAKOSHI, San Leandro, Calif. Filed June 1, 1926. Serial No. 112,816. 3 Claims. (Cl. 1—49.7.)



1. A nail stripper of the character described, comprising a box open at one end thereof, elastic elements engaging the opposite end for supporting the box and formed to allow the box to slant downwardly from the supported end, the lower open end being unsupported, a grooved guide arranged relative to the lower end of the box so as to receive and arrange nails dropping therefrom and to guide the same downwardly, and parallel guide rods communicating with the grooves allowing the heads of the nails to ride thereon while the shanks are suspended, the rods being looped at the joint to allow a line of nails to be withdraw thru the loops.

1,677,528. ROTARY-FIELD INDUCTION FURNACE. EDWIN F. NORTHRUP, Princeton, N. J., assignor to The Ajax Metal Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 12, 1924. Serial No. 698,579. 24 Claims. (Cl. 266—1.5.)

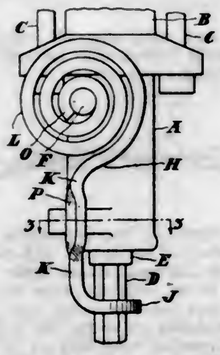


1. In operating an induction furnace having a pool and molten metal resistors within channels connected at the bottom beneath the pool and connected with the pool, the method which consists in utilizing a surrounding rotary induction field to induce current within the resistors and using the resultant torque upon the resistors to drive the metal against the channel walls so as to cause circulation along the lengths of the resistors.

1,677,529. MANUFACTURE OF YEAST, ESPECIALLY BY THE AERATION PROCESS. ALFRED POLLAK, Vienna, Austria. Filed Mar. 23, 1923, Serial No. 627,145, and in Austria Apr. 4, 1922. 6 Claims. (Cl. 195—20.)

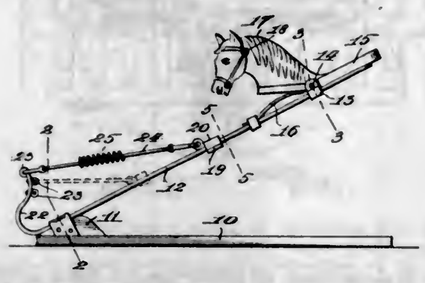
5. In the art of yeast manufacture the process of producing yeast which comprises preparing a yeast nutrient solution, propagating yeast therein with aeration and adding at the period of the yeast development, at which the reproduction has considerably slowed down a second portion of culture yeast whose assimilative properties for nitrogeneous compounds had been increased by subjecting the yeast to a treatment with a solution containing in addition to albumin-digesting enzymes also enzymes capable of decomposing hemi-cellulose, and thereafter to a preliminary fermentation, spent-wash resulting from an alcoholic fermentation being added to the preliminary mash or wort.

1,677,530. STEEL RETAINER. WILLIAM PRELLWITZ, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 12, 1928. Serial No. 260,925. 3 Claims. (Cl. 121—32.)



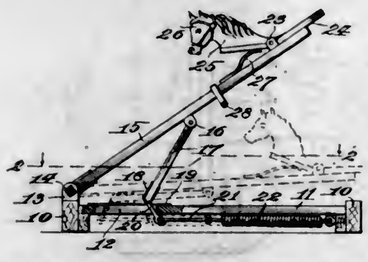
1. In a steel retainer for rock drills, the combination of a front head having grooves in opposite sides, a drill steel extending into the front head, trunnions on the front head, a retainer comprising a piece of rectangular wire bent to form a yoke adapted to act as an abutment for the drill steel, side arms on the yoke having integral spiral springs, the innermost coils of said springs being adapted to pivotally receive the trunnions, and locking portions on the side arms twisted about the longitudinal axis of the side arms to enable a corner of said locking portions to lie in the grooves for locking the retainer in the retaining position.

1,677,531. SPRING TEETERING TOY. IRA A. SHANTON, St. Petersburg, Fla. Filed Dec. 24, 1925. Serial No. 77,504. 7 Claims. (Cl. 272—55.)



1. In a spring teetering toy the combination with a base, of a spring arm mounted on said base and extending upwardly at an angle relative thereto, a seat carried by the free end of said spring arm, a relatively short spring arm projecting upwardly from the lower end of the first mentioned spring arm and a flexible connection between said relatively short spring arm and the upper portion of the angularly disposed spring arm.

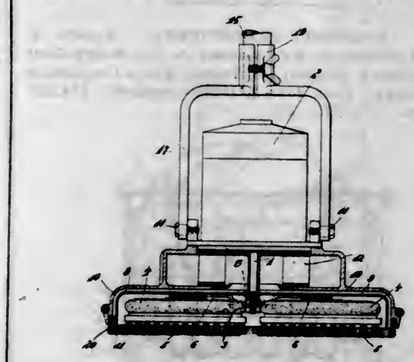
1,677,532. EXERCISING PLAYTHING. IRA A. SHANTON, Hollywood, Calif. Filed Oct. 22, 1926. Serial No. 143,312. 7 Claims. (Cl. 272—55.)



1. An exercising toy comprising a base, an arm hinged to one end of said base and extending upwardly therefrom at an angle, a spring arranged beneath said base and a non-rigid connection between said spring and arm whereby the movement of said arm in one direction is yieldingly resisted a part of which connection is mounted so as to move freely upon the base when swinging movement is imparted to said arm.

1,677,533. ELECTRICALLY-ACTUATED SURFACING MACHINE. GUSTAV STAEHLE, Stuttgart, Germany, assignor to "Cyklop" Akt. Ges., Schaffhausen, Switzerland, a Firm. Filed May 4, 1926, Serial No. 106,687, and in Germany Mar. 9, 1926. 1 Claim. (Cl. 15—7.)

A cleaning machine comprising a casing; a motor mounted on said casing; a pair of brushes rotatably mounted in the lower part of said casing; a shaft for said motor adapted to rotate said brushes; a fan mounted on the shaft of the motor for creating a suction action; a curtain member in the form of a brush mounted on the outer lower edge of the casing and adapted to contact with the surface to be cleaned; and a bell-shaped casing mounted within and in spaced relation to the first-named casing to form a passage for the suction air from the curtain member to the fan, said passage limiting the suction

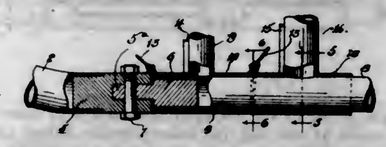


action to the curtain member, and said curtain member preventing the particles loosened by the brushes from flying outwardly beyond the suction zone and creating a uniform distribution of the air of the suction action.

1,677,534. METAL COMPOUND OF AZO DYESTUFF AND PROCESS OF MAKING SAME. FRITZ STRAUB, Basel, HERMANN SCHNEIDER, Riehen, near Basel, and JOSEPH SPIELER, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Apr. 7, 1925, Serial No. 21,440, and in Switzerland Apr. 20, 1924. 8 Claims. (Cl. 260—12.)

1. As a step in the manufacture of azo dyestuffs containing metals the herein described process for the manufacture of azo-dyestuffs, by coupling hydroxynaphthalene-monosulfamides other than the 1 : 8-hydroxynaphthalene-sulfamide with ortho-hydroxydiazo-compounds.

1,677,535. FUSELAGE FOR AEROPLANES. WILLIAM F. VAN CLEAVE, Dallas, Tex., assignor of one-half to Richard M. Barnhart, Dallas, Tex. Filed Mar. 7, 1927. Serial No. 173,276. 1 Claim. (Cl. 244—31.)



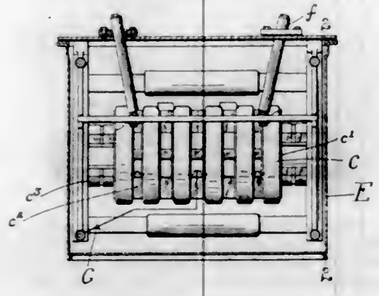
A fuselage for flying machines comprising an engine frame, a plurality of steel rods forming longéron rods spaced apart and including strut rods with sleeve portions and guy wires for holding said longéron rods in rigid spaced relation; each of said longéron rods removably connected to said engine frame and capable of being removed without disarranging or taking down the covering or other parts of said fuselage in renewing or replacing broken or damaged longéron rods.

1,677,536. 1-METHYL-2.5.6-TRICHLORO-3-AMINOBENZENE-4-SULPHONIC ACID AND PROCESS OF PREPARING THE SAME. HERMANN WAGNER, Bad Soden-on-the-Taunus, and BARTHOLOMÄUS VOSSEN, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 13, 1927, Serial No. 212,850, and in Germany Sept. 11, 1926. 3 Claims. (Cl. 260—129.)

3. As a new product, 1-methyl-2.5.6-trichloro-3-aminobenzene-4-sulphonic acid, being a whitish powder, very

sparingly soluble in water, insoluble in alcohol and ether, and dissolving in concentrated sulphuric acid to a slightly yellowish solution, from which it is reprecipitated on dilution with water.

1,677,537. ELECTRIC TRANSFORMER. WILBUR S. WERNER, Covington, Ky., assignor to The Kelley-Koett Manufacturing Company, Covington, Ky., a Corporation of Kentucky. Filed June 2, 1921. Serial No. 474,440. 3 Claims. (Cl. 175—361.)



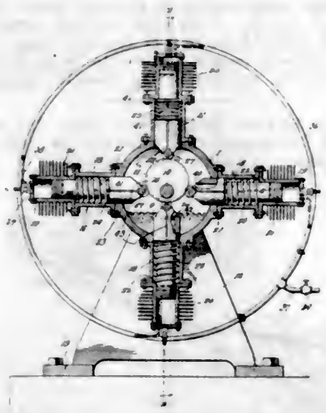
1. In a transformer the combination of a core having a body and branches, a main primary winding on the body and an auxiliary primary winding on each of the branches, a secondary winding about the body of the core intermediate the branches, and a switch adapted to selectively connect the primary windings with a primary electrical circuit.

1,677,538. PRESSURE-CONTROL DEVICE FOR USE IN COUPLING OIL-WELL CASING. EMERY GRACEY WHALEY, Enid, Okla., assignor of one-half to Frank Edward Sackrider, Enid, Okla. Filed Feb. 11, 1926. Serial No. 87,696. 2 Claims. (Cl. 265—47.)



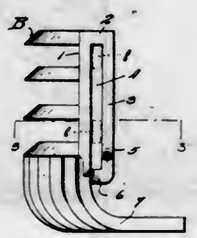
1. In a device of the character described, a cylinder or barrel closed at one end and longitudinally slotted adjacent to its opposite end, a coupling member carried by the last mentioned end of the cylinder or barrel, a cross head slidably interfitting the barrel and having projecting side portions extending through the slots thereof, a piston rod connected at one end centrally of said cross head and guided thereby axially of the cylinder, a piston at the other end of the rod movable toward and away from the closed end of the barrel or cylinder and forming therein an air pressure chamber, a pressure indicator carried by the barrel or cylinder in communication with the said chamber, connecting bars extending along opposite sides of the cylinder and connected at one end to the projecting side portions of the cross head and projecting at their opposite ends beyond the closed end of the barrel or cylinder, a coupling member carried by the last mentioned ends of the said connecting bars, said piston having a valvular movement longitudinally of the rod and said connecting bars closely embracing the sides of the barrel or cylinder and transversely curved to present inner concave faces conforming to the contour of the cylinder, whereby to act as guides for the last mentioned coupling member and cooperating with the guiding cross head in use.

1,677,539. AIR COMPRESSOR. HARRY P. WOLLMAN, Washington, D. C. Filed Oct. 6, 1927. Serial No. 224,433. 5 Claims. (Cl. 230—187.)



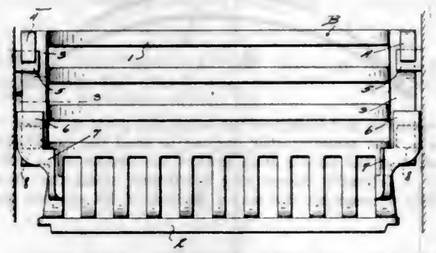
1. In a compressor, the combination of a casing, a driving eccentric rotatable in the casing, cylinders carried by the casing and communicating with the interior thereof, pistons reciprocable in the cylinders, said cylinders and pistons having opposed shoulders, springs encircling the pistons and having their respective terminals engaged with the shoulders to normally urge the pistons inwardly towards the eccentric, and driving means between the pistons and eccentric, as and for the purpose set forth.

1,677,540. FIREPLACE BASKET. WILLIAM T. BAILEY, Nashville, Tenn. Filed Jan. 29, 1927. Serial No. 164,616. 1 Claim. (Cl. 126—165.)



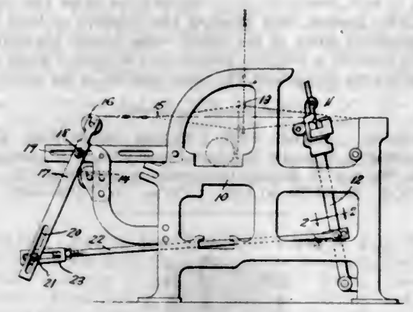
A fireplace basket comprising a body having an upstanding front portion and a substantially horizontal bottom portion, the bottom portion terminating inwardly of the ends of the front portion, rearwardly disposed lugs carried by those upper portions of the front portion which extend beyond the ends of the bottom portion, arms depending from said lugs and spaced from the adjacent extended extremities of the front portion to provide slots adapted to readily receive the conventional fireplace frame lugs, the lower portions of the arms being continued by extension arms disposed inwardly of the front portion and terminating in lugs attached to the basket at points inwardly of the first named arms thus leaving open the lower ends of the slots provided between said first named arms and the adjacent extremities of the front portion of the basket, said open slots permitting the frame lugs to readily enter within the slots without interference by the bottom portion upon substantially direct downward movement of the basket.

1,677,541. FIREPLACE BASKET. WILLIAM T. BAILEY, Nashville, Tenn. Filed Jan. 24, 1928. Serial No. 249,167. 3 Claims. (Cl. 126—164.)



1. A fireplace basket having an upstanding front portion and a substantially horizontal bottom portion, hook members carried by the opposite extremities of the upstanding front portion, a hook at each end being vertically spaced and disposed inwardly, the bills of the hook members at each extremity being disposed one toward the other.

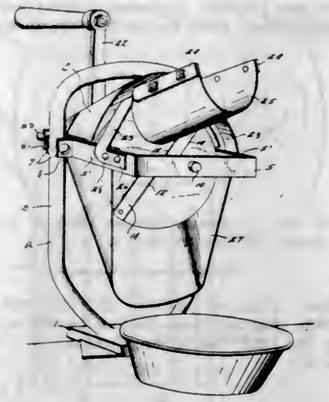
1,677,542. LOOM. EDWARD BAUER, West New York, and PHILIP MIOZZI, Union City, N. J. Filed Aug. 5, 1926. Serial No. 99,887. 1 Claim. (Cl. 139—115.)



A loom comprising a slotted frame, a swingable lay having legs pivotally connected at their lower ends to said frame, arms remote from the lay and pivotally connected at intermediate points in their lengths to the slotted frame and having longitudinally-slotted lower portions, a whip roller mounted between the upper ends of said arms, and rods connected to and adjustable on the legs of the lay and the lower portions of the arms and interposed directly between said legs and arm portions.

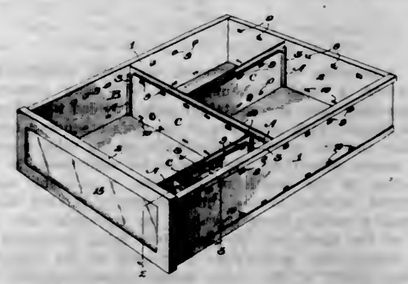
1,677,543. VEGETABLE CUTTER. JOSEPH A. BOGDONAWICH, Ringtown, Pa. Filed Jan. 14, 1928. Serial No. 246,888. 5 Claims. (Cl. 146—114.)

1. A vegetable cutter comprising an upstanding frame including side members, anchoring means for said frame, brackets secured to the side members of the frame and positioned fore and aft thereof, a shaft rotatably supported by said brackets, a cutting element rotating with



the shaft, upwardly disposed arms carried by one of the brackets, and a feed chute supported by said arms and disposed toward the cutting member.

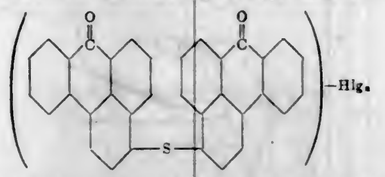
1,677,544. ADJUSTABLE-COMPARTMENT METAL DRAWER. GEORGE C. BRAINARD, JASON A. FITCH, and GLENN T. GOURLEY, Youngstown, Ohio, assignors to The General Fireproofing Company, Youngstown, Ohio, a Corporation of Ohio. Filed July 12, 1926. Serial No. 121,965. 6 Claims. (Cl. 45—7.)



1. An all-metal adjustable compartment metal drawer including the side and end walls of the drawer having through openings therein, a metal partition holder having locking projections for engaging and interlocking with said openings and provided with a partition receiving groove, and a partition member adapted to engage said holder, said member being provided with through openings to receive the locking projections of other partition holders.

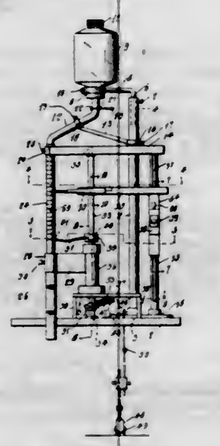
1,677,545. HALOGEN DERIVATIVE OF THE BENZANTHRONE SERIES AND PROCESS OF MAKING SAME. OTTO BRAUNSDORF and EDUARD HOLZAPFEL, Hochst-on-the-Main, and PAUL NAWIASKY, Ludwigshafen-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 23, 1926, Serial No. 96,869, and in Germany Mar. 27, 1925. 7 Claims. (Cl. 260—61.)

7. As new products, halogenated sulfur compounds of the benzanthrene series having the type formula:



wherein Hlg represents halogen and n represents a whole number not greater than 3.

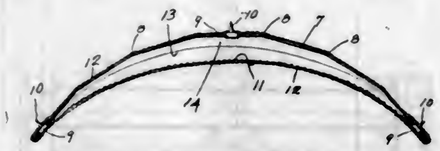
1,677,546. PILL COUNTING AND DISPENSING MACHINE. ROBERT KLOTZ CLAUSS, Lehighton, Pa. Filed July 28, 1927. Serial No. 209,045. 4 Claims. (Cl. 226—2.)



4. A machine of the character set forth, comprising a container, a tube communicating with and extending downwardly from the container and provided in different sides thereof with slots, one of the slots extending transversely and the other longitudinally of the tube, a member, means supporting the member for adjustment in the direction of the length of the tube, a rotatable shaft arranged parallel to the tube, angularly related valves extending radially from the shaft for movement into and out of the slots, one of the valves being connected to the member for adjustment therewith in the direction of the length of the tube, means associated with the shaft for normally holding one of the valves in closed position, and means associated with the shaft by which it may be rotated to move said valve into opened position and to move the other valve into closed position.

1,677,547. HAT PAD. LEON COHEN, St. Louis, Mo. Filed Oct. 19, 1925. Serial No. 63,279. 2 Claims. (Cl. 2—185.)

1. A hat pad comprising an arcuate flexible flat strip, fastening prongs projecting from the convex face thereof, an elastic of less length than said strip and of greater width than said flexible strip having its ends secured to said flexible strip whereby said strip is bowed outwardly from said elastic strip, a fabric covering for said strip and said elastic for drawing in said



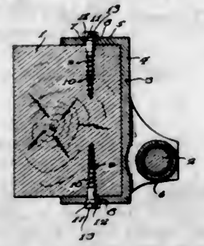
elastic so as to concave the same and place it under tension, said covering also adapted to bend the longitudinal edges of the elastic strip toward the flexible strip whereby a laterally convex face is formed along the elastic strip throughout the major portion of its concave face.

1,677,548. HAT-SIZE REDUCER. LEON COHEN, St. Louis, Mo. Filed Sept. 8, 1927. Serial No. 218,124. 3 Claims. (Cl. 2—185.)



1. A hat size reducer comprising an arcuate flexible flat strip, a metallic strip located on the inside of said flat strip, fastening prongs projecting from the convex face of said metallic strip and through said flexible strip, an elastic of less length and of greater width than said flexible strip having its ends secured to said flexible strip whereby said strips are bowed outwardly, and a fabric covering for said strips and said elastic for drawing in said elastic so as to concave the same and place it under tension, said covering also adapted to bend the longitudinal edges of the elastic strip toward the flexible strip whereby a laterally convex face is formed along the elastic strip throughout the major portion of its length.

1,677,549. SCREW FOR CENTER BEARINGS FOR LOOMS. WILLIAM E. CRAIN, Greenville, S. C., assignor to William H. Bahan, Greenville, S. C. Filed Feb. 27, 1926. Serial No. 91,169. 1 Claim. (Cl. 139—345.)



The combination with a loom lay and a lay center bearing fitting against the lay and having attaching portions overlapping opposed faces of the lay and formed with fastener receiving openings, each opening having its outer portion flared to provide a countersink, of screws for securing said bearing to the lay each comprising a threaded shank having a conical head and a polygonal head integrally formed thereon and projecting from the conical head, the said screw being engageable through a fastener receiving opening and adapted to have its conical head received within the countersink of the opening with the polygonal head projecting beyond the

surface of the attaching portion, the outer end of the conical head of the screw being circular and of a diameter not less than the maximum transverse dimension of the polygonal head whereby segmental portions of the outer end of the said conical head will project beyond the side faces of the polygonal head to constitute abutments for a wrench applied to the polygonal head and prevent disengagement of the wrench therefrom.

1,677,550. SANITARY FIXTURE. RAYMOND E. CRANE, Kittanning, Pa. Filed Aug. 23, 1927. Serial No. 214,848. 5 Claims. (Cl. 4—105.)

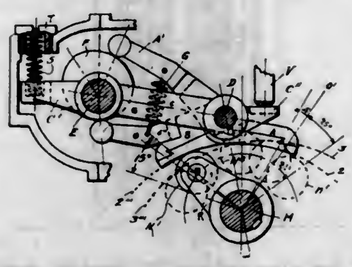


1. In a sanitary receptacle made of ceramic materials, the combination of a main wall, side walls made integral with and extending outwardly from said main wall, end walls integral with said main and side walls and longitudinal tubular supports made integral with and supporting the junction between the main wall and the side walls.

1,677,551. PROCESS FOR PRODUCING IN A SOLUTION THE CRYSTALLIZATION OF THE BODY DISSOLVED THEREIN. ALBERT DELAS, Paris, France, assignor to Société des Condenseurs Delas, a Corporation of France. Filed July 25, 1925, Serial No. 46,187, and in France Aug. 6, 1924. 8 Claims. (Cl. 23—1.)

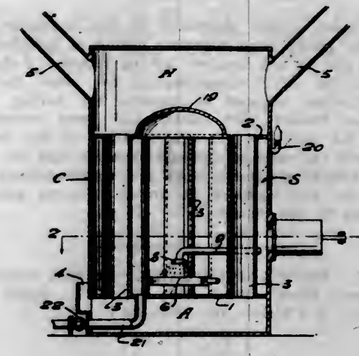
1. The method of producing the crystallization of a substance in a solution in which it is dissolved, which comprises furnishing the necessary cold by vaporizing a volatile body intimately incorporated with the solution.

1,677,552. VALVE-CONTROLLING DEVICE FOR ENGINES AND MOTORS. SIGISMONDO DIAMANT, Genoa, Italy, assignor of one-half to Carlo Scotti, Genoa, Italy. Filed Nov. 5, 1924, Serial No. 747,958, and in Italy May 9, 1924. 10 Claims. (Cl. 123—90.)



1. Internal combustion engine valve controlling mechanism comprising a valve operating lever, a regulating shaft on which said lever is pivotally mounted, a cam fast to said shaft, a pair of crossed controlled levers pivotally connected together at their point of intersection, said controlling levers bearing at one end on said cam at points on opposite sides of said regulating shaft and being provided at their opposite ends with slides, a distribution shaft, and means on said distribution shaft to consecutively contact with said slides and thereby actuate said controlling levers and hence said valve operating lever.

1,677,553. AIR HEATER. THOMAS B. DISSETT, East St. Louis, Ill. Filed June 21, 1927. Serial No. 200,451. 2 Claims. (Cl. 219—34.)

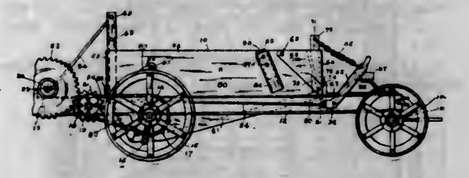


1. A heater of the class described comprising a casing, spaced partitions within the casing dividing the same into a cold air chamber, a hot air chamber and an intermediate steam chamber, tubes extending through the steam chamber and affording communication between the cold air chamber and hot air chamber, steam generating means within the steam chamber, and means operating upon predetermined steam pressure within the steam chamber for making said steam generating means inoperative.

1,677,554. COMPOUND OF GALL ACIDS AND PROCESS OF MAKING SAME. ALPHONSE GAMS and PAUL SCHEIDEGGER, Basel, Switzerland, assignors to the Firm Society of Chemical Industry in Basle, Basel, Switzerland. Filed July 31, 1926, Serial No. 126,335, and in Switzerland Sept. 2, 1925. 15 Claims. (Cl. 260—124.)

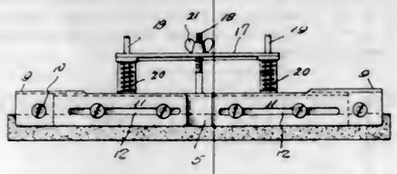
1. Process for the manufacture of compounds of gall acids by causing an acylated aliphatic diamine to react with a gall acid.

1,677,555. DUMP WAGON. FRED W. GARVIN, Jamestown, N. Y. Filed Nov. 19, 1925. Serial No. 70,121. 4 Claims. (Cl. 37—4.)



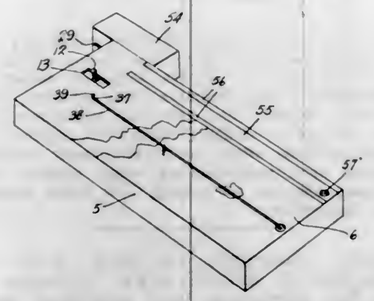
3. A dumping wagon including a frame, a body pivotally mounted on said frame adapted to assume a scraping and carrying position and means for moving said body, said body comprising a box, a front gate pivoted upon said box and a rear gate and means on said front gate for engaging said frame, as said body assumes the scraping position, and swinging the lower edge of said gate on its pivots away from said box.

1,677,556. LAWN-MOWER SHARPENER. JOHN H. GROETSCH, Gaylord, Minn. Filed Mar. 13, 1926. Serial No. 94,527. 1 Claim. (Cl. 51—250.)



In a lawn mower sharpener of the character described, an emery block receiving boxing of inverted U-shape, a pair of end members having inverted U-shaped body portions with extensions on the sides thereof, said extensions adapted to straddle the boxing, said extensions formed with slots, and bolts extending through the slots and through openings in the boxing to contract the sides of the end members and the boxing for holding an emery block and simultaneously for holding the end members in proper adjusted position in relation to the boxing.

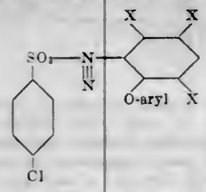
1,677,557. INDOOR GOLF GAME. RUSSELL JOHNSON, Pittsburg, Kans. Filed Nov. 19, 1927. Serial No. 234,480. 8 Claims. (Cl. 273—35.)



1. In a game device of the class described, a rotatable shaft, a ball attached thereto and arranged for rotation thereabout, a carrier arranged for movement along a horizontal plane and means operatively connecting said shaft for the actuation of said carrier.

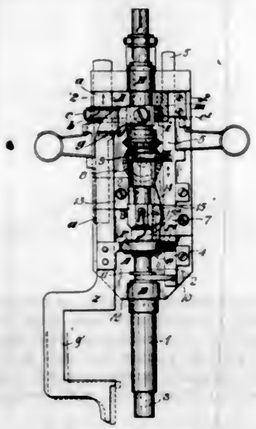
1,677,558. SOLID DIAZOSALTS OF ORTHO-AMINOPHENOLARYLETHERS. FERDINAND KELLER, Offenbach-Main-Burgel, and KARL SCHITZSPAHN, Offenbach-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 11, 1927, Serial No. 167,581, and in Germany Feb. 12, 1926. 4 Claims. (Cl. 260—69.)

1. As new compounds solid diazosalts of ortho-aminophenolarylethers of the general formula:



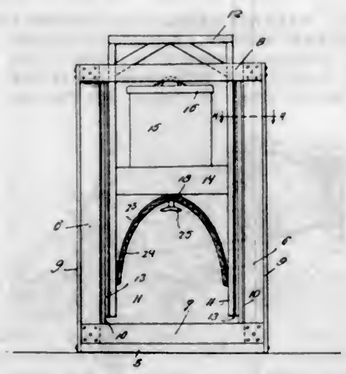
wherein the X's stand for hydrogen atoms, of which one or more may be replaced by chlorine and "aryl" represents an unsulfonated arylresidue, which diazosalts are whitish to yellowish to brownish colored and soluble powders, being substantially identical with products obtainable by double decomposition reaction of mineral acid diazosalt solutions of ortho-aminophenolarylethers either with a para-chlorobenzene sulfonic metal salt or with free para-chlorobenzene sulfonic acid.

1,677,559. COMBINED GUIDING AND FEEDING DEVICE FOR CRANK EMBROIDERY MACHINES AND THE LIKE. ALOYS KOCH, Berlin, Germany, assignor to the Firm of Perliner Stickmaschinenfabrik Schirmer, Blau & Co. G. m. b. H., Berlin, Germany. Filed Feb. 27, 1925, Serial No. 12,068, and in Germany June 25, 1924. 4 Claims. (Cl. 112—98.)



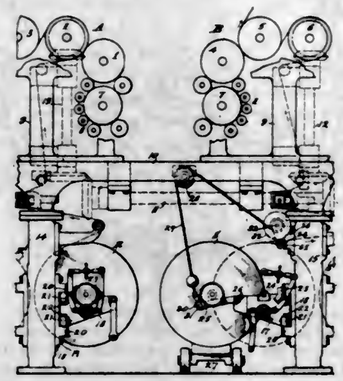
1. In a sewing or embroidering machine, the combination with a feed slide, needle holder tube, bearing block therefor, and feed lever connected to the block, of a bracket extending outwardly from the feed slide, and eccentric means for pivotally supporting the block on the bracket so as to be capable of adjustment.

1,677,560. HOG-OILING DEVICE. ALVIN J. KOERNER, Freeman, S. Dak. Filed Mar. 26, 1927. Serial No. 178,564. 1 Claim. (Cl. 119—157.)



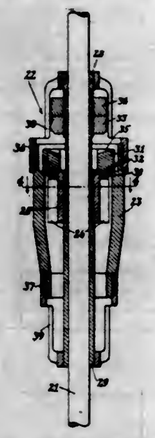
In a hog oiling device of the character described, a base, a pair of spaced parallel standards rising from intermediate portions of the side edges of the base, braces connected to the upper ends of the standards and extending downwardly and fixed to the ends of the base, a brace connecting the lower ends of the standards, a pair of spaced parallel braces connecting the upper ends of the standards, a frame between the standards, a tongue and groove slidable connection between the frame and the standards, said frame comprising a pair of side bars and an upper cross bar and an intermediate cross bar, a tank fixed on the intermediate cross bar and having a pipe depending therefrom through the intermediate cross bar, and an oil applying means with which the pipe is connected.

1,677,561. WEB-ROLL RELOADING MECHANISM. FREDERICK LAMATSCH, Grantwood, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed Feb. 5, 1925. Serial No. 6,937. 3 Claims. (Cl. 242—58.)



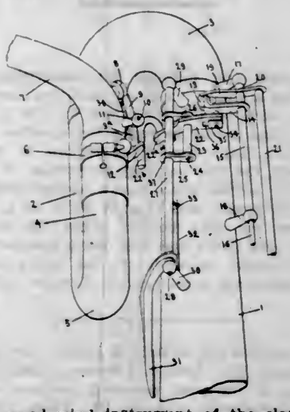
1. In a printing machine, the combination of a plurality of printing couples, of spaced framing supporting the couples, web roll supports secured on adjacent sides of the framing and extending outwardly therefrom facing each other with a clear space between them, and means for swinging the supports at an angle to the framing to form a clear path for the roll so that a roll may be entirely moved past the support for positioning therein without interfering with a roll running in the opposite support.

1,677,562. VALVE EQUIPMENT FOR OIL-WELL PUMPS. CHARLES B. LEWIS and EDGAR D. ROBERTSON, Los Angeles, Calif. Filed June 8, 1927. Serial No. 197,308. 2 Claims. (Cl. 103—180.)



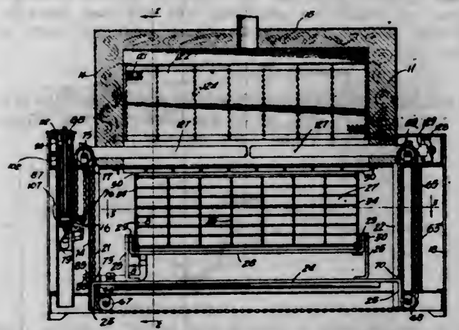
1. A standing valve for deep well pumps comprising a tubular body adapted to seat in a pump-tube coupling, a concentric sleeve held in said tubular body by radial partitions so as to form a series of vertical openings terminating in an annular passage in the upper end thereof; guide sleeves fixed in said concentric sleeve so as to extend above and below said tubular body, said guide sleeves being adapted to receive a polished rod extending from a pump plunger through the valve; a ring flapper encircling the upper of said guide sleeves and serving as a closure to said annular passage; a stop nut adjustably fixed on said upper guide sleeve to limit the movement of said flapper and cages fixed on the upper and lower ends of said tubular body so as to embrace the ends of said guide sleeves.

1,677,563. OCTAVE KEY MECHANISM FOR WOOD-WIND INSTRUMENTS. ALLEN LOOMIS, Elkhart, Ind. Filed Nov. 17, 1926. Serial No. 148,783. 9 Claims. (Cl. 84—385.)



2. In a wood wind instrument of the class having a body tube with portions side by side, a springless octave key and a floating lever carrier pivotally mounted on one of said portions, a floating lever pivotally carried by said carrier and having two arms, one of which is coupled with said octave key, a spring acting on said carrier tending to depress the pivot of the floating lever, the second arm of which reacts against the adjacent part of the body, a second octave key mounted on an adjacent portion of the body beside the part above specified, and an extension from the second named arm of the floating lever crossing the space between the adjacent parts of the body into position for applying pressure to the second named octave key.

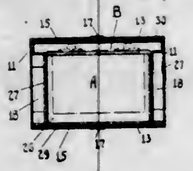
1,677,564. AUTOMATIC COOKER. HOWARD S. MURRAY, Los Angeles, Calif. Filed Jan. 16, 1924, Serial No. 686,523. Renewed Jan. 9, 1928. 13 Claims. (Cl. 126—41.)



1. In a cooker, the combination of: walls forming a cooking chamber having an opening in the lower wall thereof: a carrier; substantially vertically extending

guide means for directing said carrier between lowered position beneath said chamber and raised position within said chamber; and means for causing and controlling a gradual egression of said carriage from said cooking chamber.

1,677,565. CONTAINER. FERDINAND S. OPPENHEIM, New York, N. Y. Filed Sept. 10, 1924. Serial No. 736,806. 6 Claims. (Cl. 229—14.)



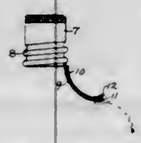
1. A packing and shipping box comprising an outer casing having a single removable partition liner arranged therein for each of the sides and for the top wall of said casing, and a tray having a top opening, side walls and a bottom, said tray being formed to support an article within the tray on the rim portion of said opening, the tray bottom extending a spaced distance from the article to permit said tray to serve as a cushioning means when the tray bottom abuts the bottom side of the box, said liners and tray being adapted to secure the article against movement in the casing for protecting and cushioning same against damage during transportation.

1,677,566. GOGGLES AND THE LIKE. GUST A. PETERSON, Chicago, Ill.; Georgia Peterson, administratrix of said Gust A. Peterson, deceased, assignor of one-half to Gust E. Sellstrom, Chicago, Ill. Filed Oct. 24, 1924. Serial No. 745,539. 8 Claims. (Cl. 2—14.)



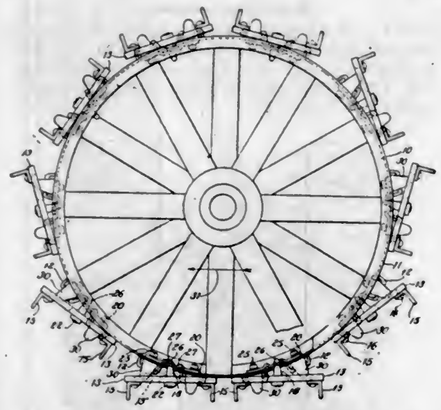
6. An eye protector, comprising a pair of eye cups connected by a nose engaging member, and a split ring forming a lens-holding rim secured in the cylinder of each eye cup, said rings having inwardly opening grooves, a lens in said grooves, the rear walls of said grooves providing a flange abutting the forward edges of the eye cups, said rings extending in cylindrical form from said grooves into said eye cups to provide sufficient space to receive an additional lens and then being inwardly flanged for retaining such additional lens in position.

1,677,567. MEASURING CAP FOR BOTTLES. JOHN A. REISER, Port Jervis, N. Y. Filed Jan. 22, 1926. Serial No. 82,921. 1 Claim. (Cl. 215—57.)



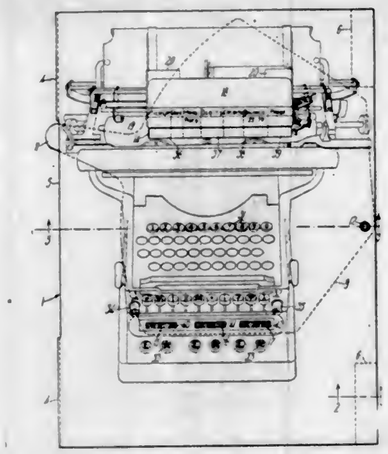
A dosage measuring device comprising a cap, screw threaded means for retaining it over the mouth of a bottle and a closure therein and an extended handle formed integral with said measuring device, said handle being in two parts, hingedly connected and extending down the neck of the bottle.

1,677,568. TRACTION WHEEL. LOUIS E. SLAUSON, Rock Island, Ill. Filed Jan. 14, 1924. Serial No. 686,050. 5 Claims. (Cl. 305—13.)



2. The combination with the rim of a wheel, of teeth on the outer faces of the rim, a detent member on the inner face of the rim, and a traction shoe having openings to receive said teeth, and means to engage the detent member to loosely secure the shoe to the rim so that it may have freedom of bodily movement radially or peripherally of the wheel within limits determined by the teeth and the detent member.

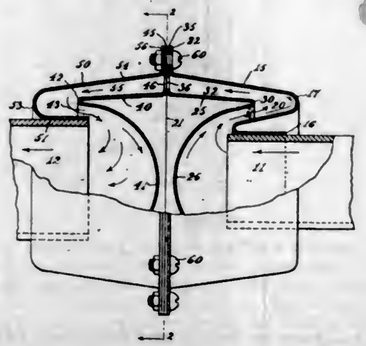
1,677,569. ACCOUNTING-MACHINE DEMONSTRATION CHART. JESSE A. B. SMITH, Stanford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed May 19, 1925. Serial No. 31,258. 13 Claims. (Cl. 35—16.)



1. A device for demonstrating the operation of an adding and typing machine comprising a frame having a top and a bottom layer hinged at one edge, on the face

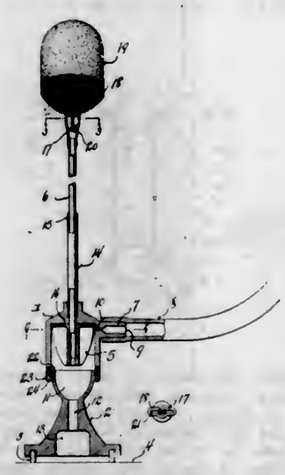
of one layer appearing the representation of the adding and typing machine the operation of which is to be demonstrated, the layer on which the representation appears having sight openings therein, one opening being located in the printing zone of said representation to disclose the number supposed to be typed on the typing machine and another opening in said layer at the counter cover represented in said representation, and a pivoted segment between said layers having numerals thereon arranged to be exposed to view in said sight openings on manipulation of said pivoted segments.

1,677,570. MUFFLER. CHARLES E. STADE, New York, N. Y. Filed June 25, 1924. Serial No. 722,294. 7 Claims. (Cl. 137—160.)



1. A muffler of the class described, comprising, in combination with spaced ends of two pipes, a substantially cylindrical outer casing; and a spaced inner baffle member, the last mentioned member having reversed semispherical walls therein and having cylindrical walls spaced within the outer casing and having means thereon to engage the casing for intermediate support.

1,677,571. BOTTLE WASHER. WALTER SKWIERAWSKI, Milwaukee, Wis. Filed May 2, 1927. Serial No. 188,226. 2 Claims. (Cl. 15—99.)



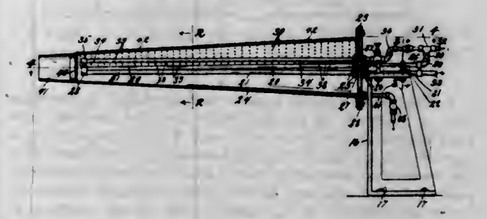
1. A bottle washer comprising a casing having a base provided with a constricted discharge aperture, said casing having a pipe receiving portion provided with an inlet aperture, a rotor mounted adjacent said inlet aperture and positioned within said casing and spaced above the bower portion of said casing, a hollow spindle rigidly attached to said rotor and projecting upwardly from said casing, means carried by said spindle for preventing downward motion thereof, and a brush provided with a shank attached to the upper end of said spindle, said spindle having a discharge portion located immediately adjacent said brush, said casing converging towards its lower end and having a base provided with a discharge aperture.

1,677,572. SCREW DRIVER. LUCIUS V. WALKLEY, Plantsville, Conn. Filed Dec. 27, 1926. Serial No. 157,132. 7 Claims. (Cl. 145—50.)



1. A screw driver having a body portion formed to provide a bit, a shank, and a handle, and having adjacent the lower end of the handle and extending across the screw driver a relatively broad flattened surface to receive the finger of the operator.

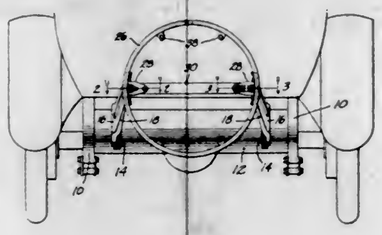
1,677,573. FABRIC PUFFER. HAROLD L. WATKINS and LA VERE J. EVELAND, Los Angeles, Calif. Filed Jan. 8, 1927. Serial No. 159,892. 7 Claims. (Cl. 68—9.)



1. A fabric puffer including a support; a conical steam shell having a flanged end secured to said support and having perforations through a portion thereof; means for supplying dry steam to the interior of said shell; a fine mesh wire screen having its edges soldered to the

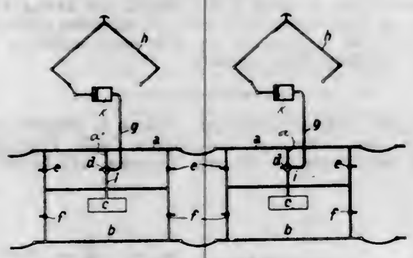
shell and arranged over the perforated portion thereof to evenly spread the steam discharging from the shell, and means within said steam shell for closing a portion of the perforations through said shell.

1,677,574. TIRE CARRIER. ALBERT B. WERDEHOFF, Birmingham, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 26, 1926. Serial No. 118,836. 2 Claims. (Cl. 224—29.)



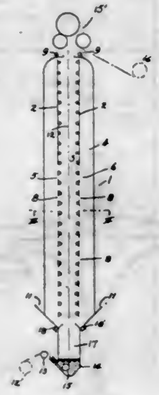
2. A tire carrier of the class described comprising a pair of stamped brackets each comprising a single element having a channel shaped portion, an inwardly extending portion adapted to close one end of said channel portion, a convex portion at right angles to said inwardly extending portion, and means carried by said convex portion for securing a tire rim in position on said brackets.

1,677,575. PNEUMATIC CONTROL APPARATUS. ALFRED WICHERT, Mannheim-Neuostheim, Germany, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland, a Joint Stock Company. Filed Apr. 29, 1926, Serial No. 105,613, and in Germany May 11, 1925. 3 Claims. (Cl. 303—28.)



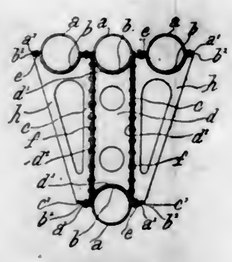
2. Pneumatic control apparatus comprising, in combination, a plurality of pneumatically operated devices, pressure reservoirs associated with said devices respectively, a control line arranged for communicating connection with the reservoirs, automatic valves associated with respective reservoirs and operated devices, said automatic valves operable by pressure in the control line to one position to establish communication between the associated reservoirs and operated devices and the control line, said automatic valves effective in another position to vent the operated devices and cut off communication between the reservoirs and control line, and a control valve effective in one position to vent the control line and in another position to establish communication between a reservoir and the control line.

1,677,576. APPARATUS FOR PRODUCING GLASS SUBSTITUTE. ADOLPH ZIMMERLI, New Brunswick, N. J., assignor, by mesne assignments, to Acetol Products, Inc., a Corporation of Delaware. Filed May 29, 1924. Serial No. 716,553. 5 Claims. (Cl. 91—55.)



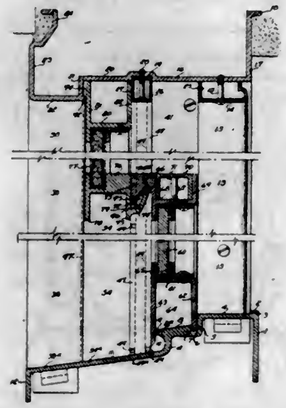
1. An apparatus for manufacturing glass substitutes, comprising an enclosure divided vertically into a drying chamber and a condensing chamber, said chambers being in communication with each other, a liquid container, a saturation chamber joining said container and enclosure, and means for passing a wire cloth through said container, thence through said saturation and drying chambers.

1,677,577. FRAME COMPONENT. FELIX AMIOT, Colombes, France, assignor to "Société d'Emboutissage et de Constructions Mécaniques," Colombes, Seine, France, a French Society. Filed Jan. 28, 1924, Serial No. 688,985, and in Belgium Apr. 6, 1923. 2 Claims. (Cl. 189—37.)



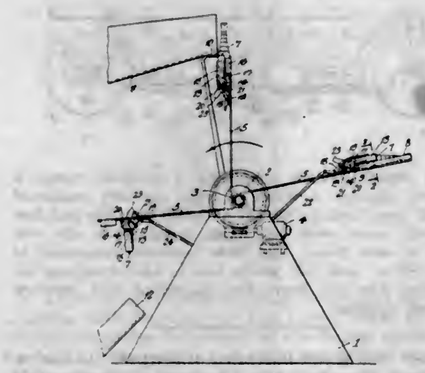
1. A frame component or spar, comprising opposing spaced cheeks, opposing elements each provided with a plurality of mating channels forming together tubular members and with companion flanges on opposite sides of said channels, the cheeks being secured to the flanges on opposite sides of one of said tubular members, at one end, a connecting member secured to the other ends of the cheeks, and webs or buttresses connected to the outer faces of said cheeks, to said connecting member, and to said channeled elements.

1,677,578. DOUBLE-HUNG WINDOW. SIDNEY U. BARR, Brooklyn, N. Y. Filed Mar. 16, 1927. Serial No. 175,679. 2 Claims. (Cl. 189—72.)



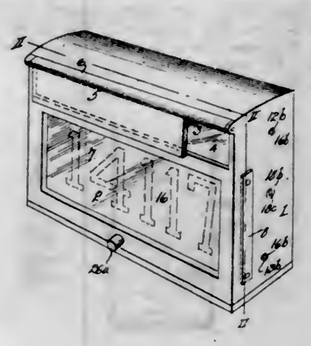
1. In a double hung, metallic sash and window frame structure, an outward, metal frame comprising a horizontal, flat top portion having at each end a straight, flat portion extending downwardly to the window sill, and also having an upward vertically and horizontally extending, integral portion, the metal at the junction of said top portion and its upward extension being extruded horizontally forward into a horizontal joint forming rib; each downwardly extending portion having a lateral, vertical integral portion, the metal at the junction of each downwardly extending portion and of each laterally projecting portion being extruded forwardly to form a joint forming rib; the front surfaces of the ribs being in alignment one with another and flat for contact with rear, flat surfaces of the top and side members of the rear window sash.

1,677,579. MEANS AND METHOD OF TREATING CRUSTACEA. JAMES J. BARRY, Gloucester, Mass. Filed Apr. 30, 1927. Serial No. 187,785. 9 Claims. (Cl. 17—9.)



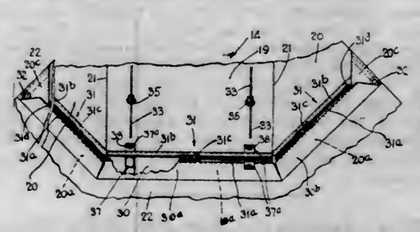
1. A machine having an obstruction, and means for retaining a portion of an article to be broken and throwing said article forcibly against said obstruction thereby breaking said article and separating the broken parts.

1,677,580. DEVICE FOR DISPLAYING AUTOMOBILE NUMBERS. RICHARD S. CARTY, Detroit, Mich., assignor of one-half to Charles B. Robinson, Detroit, Mich. Filed Jan. 10, 1927. Serial No. 160,128. 14 Claims. (Cl. 40—10.)



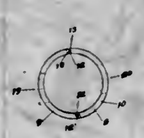
1. In an apparatus of the kind described, the combination of a sheet bearing a number and an automatic means actuated by stored power for destroying the material bearing said number.

1,677,581. AWNING CONSTRUCTION. BENJAMIN COHEN, Brooklyn, N. Y. Filed Apr. 2, 1928. Serial No. 266,537. 5 Claims. (Cl. 156—15.)



1. A device of the character described adapted to extend from a building over an opening therein comprising, a cover having a pocket formed along an edge portion thereof, adapted to enclose a stretching frame, and a hookless closure fastener means incorporated to extend throughout the length of said pocket structure to facilitate the assembly and dismounting of the cover from the frame.

1,677,582. SEGMENTAL-SLEEVE-VALVE ENGINE. PHILO H. CONKLIN, Toledo, Ohio. Filed Apr. 6, 1927. Serial No. 181,346. 2 Claims. (Cl. 123—75.)



1. In an internal combustion engine, a segmental sleeve having openings at its upper end, crank shafts and links for operating the segments of the sleeve to produce registration between the openings of the sleeve and the ports

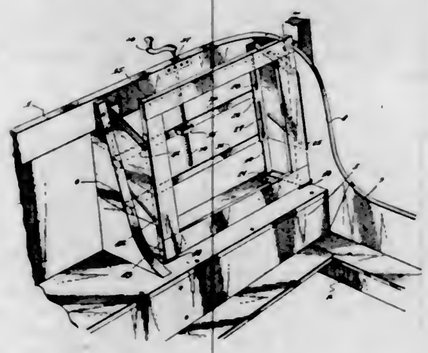
of the engine, the edge portions of the segments having interfitting ridges and grooves, the engine having a head extending into the upper end of the sleeve and having sealing rings for sealing the interior of the sleeve.

1,677,583. COAL BAG. WILLIAM KENNEDY CROMWELL, Jr., Lake Roland, Md., assignor to The Gaudy Belting Company, Baltimore, Md., a Corporation of Maryland. Filed Nov. 13, 1926. Serial No. 148,191. 1 Claim. (Cl. 150—48.)



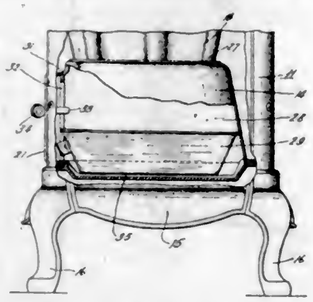
A coal bag having side walls and a bottom consisting of a single strip of canvas folded about the center of its length, the two halves of each lateral edge being sewed together forming side seams, a rectanglar reinforcing strip covering the bottom and giving the bottom a rectangular shape, the said rectangular strip being sewed to the bag as to two of its longitudinal edges, said edges forming the bottom corner edges of the bag extending in the direction of the length of the bottom, the ends of the reinforcing strip being each folded to a point which is sewed to the corresponding end wall of the bag at the bottom, covering the bottom ends of the side seams and making the ends of the bag square, handles formed of double strips of material, the strips extending vertically along the sides of the bag, one part of each double strip being on the inside and the other on the outside, a reinforcing strip encircling the top of the bag and sewed to the handle strips, a reinforcing strip sewed to the bag and encircling the bag intermediately and crossing and secured to the outside handle strips near the center.

1,677,584. ADJUSTABLE SEAT STRUCTURE FOR AUTOMOBILES. CARL G. CRONWALL, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 30, 1927. Serial No. 202,512. 18 Claims. (Cl. 155—158.)



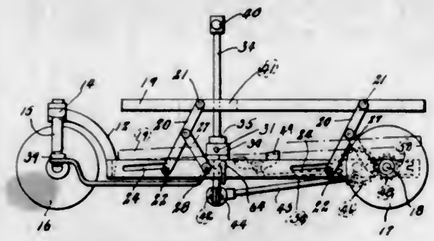
15. An automobile seat comprising in combination a main seat back and a seat cushion, the seat back being stationary with respect to the automobile body, an ancillary seat back arranged to be substantially coextensive vertically with respect to the main seat back, adjustable operating mechanism for projecting or retracting the ancillary seat back from the main back both at top and bottom, and a handle journaled in the main seat back and arranged to drive the operating mechanism which projects or retracts the ancillary seat back.

1,677,585. STOVE CONSTRUCTION. CLAUDE M. DIBBLE, Joliet, Ill., assignor to Moore Brothers Company, Joliet, Ill., a Corporation of Illinois. Filed Oct. 13, 1926. Serial No. 141,262. 6 Claims. (Cl. 126—67.)



1. A stove structure, comprising, a stove housing, means in said housing providing a combustion chamber, means for supporting said parts in said housing, said means comprising a base part supported in the housing and arranged to provide an ash pit having a substantially vertical front wall provided wtih an opening for the removal of an ash pan and a plurality of walls disposed at an angle with said vertical wall, and a door hinged to the front wall of said ash pit and swinging in a horizontal plane to close said opening.

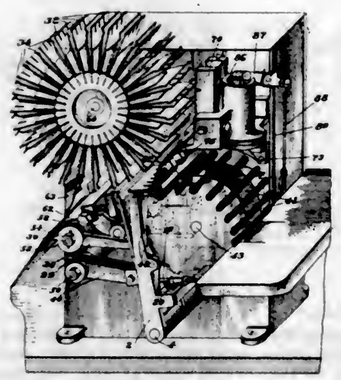
1,677,586. CHILD'S VEHICLE. HARRY H. EDELE, St. Louis, Mo. Filed Sept. 13, 1926. Serial No. 135,081. 4 Claims. (Cl. 208—113.)



1. A child's vehicle comprising a wheeled frame, a platform therefor, a series of arms pivotally connected at their upper ends to the sides of said platform and having their lower ends adjustably mounted in the side pieces of said frame, and links pivotally connected at their ends to said side pieces and to said arms and cooperating with the latter for supporting said platform in raised position.

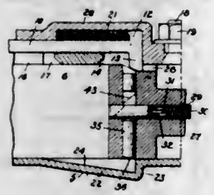
1,677,587. PACKAGE-BANDING MACHINE. ANALDO M. ENGLISH, Brookline, Mass., assignor to Cynthia Mills, East Boston, Mass., a Corporation of Massachusetts. Filed July 16, 1926. Serial No. 122,811. 27 Claims. (Cl. 93—93.)

8. In a package wrapping machine, receiving means adapted to receive and press upon a banded package, inserting means for placing a package in said receiving means while wrapping the same and adapted to cooperate with said receiving means to complete the wrap of a



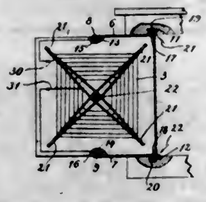
flexible band about a package after placing said package in said receiving means, and means to eject said wrapped package from said receiving means.

1,677,588. SEAR MECHANISM. WALTER T. GORTON, U. S. Army, Springfield, Mass. Filed July 11, 1924. Serial No. 725,441. 20 Claims. (Cl. 89—27.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625.)



17. The combination with a firing pin, of a combined sear and pin cocking element movable at right angles to the pin.

1,677,589. RADIO APPARATUS. JOSEF HENRIK HALLBERG, New York, N. Y. Filed Nov. 18, 1922. Serial No. 601,796. 3 Claims. (Cl. 250—33.)



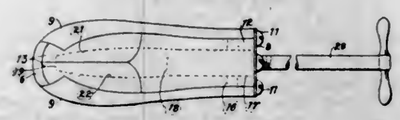
1. An antenna for radio receiving apparatus comprising a carrier having parallel top and bottom edges, an electrically conducting loop wound on the carrier, conducting bearings at mid-points on the top and bottom edges of the carrier upon which the carrier can freely rotate, connections from the conducting loop to said bearings and links hingedly mounted on a support for said antenna having pivoting means thereon whereby said loop is rotatably mounted and conductively connected to said support.

1,677,590. PRISM-LENS UNIT. CHARLES FRANCIS JENKINS, Washington, D. C. Filed July 1, 1925. Serial No. 40,839. 1 Claim. (Cl. 178—7.)



In apparatus of the class described, a fixed source of light, a screen, a lens for concentrating a point of light from the light source in a focal plane, means for scanning the screen with the said point of light as a spot on the screen comprising a prismatic ring located in the optical axis of the lens, a rotatable carrier having a plurality of lenses, each of which is succession moves across the optical axis of said first lens, and means for rotating said prismatic ring and lens carrier in synchronism.

1,677,591. SHOE STRETCHER. BENJAMIN LAVIANO, JOSEPH ALESSE, and SALVATORE CAMPAGNA, San Jose, Calif. Filed July 18, 1927. Serial No. 206,585. 5 Claims. (Cl. 12—128.3.)



1. A shoe stretcher comprising a base, an upstanding resilient plate mounted on one end thereof, a pair of opposed spreader elements connected to the plate and normally paralleling the sides of the base, a spreader elemeut mounted on the top of the base and connected to said plate, and means for spreading the elements against the tension of the resilient plate.

1,677,592. SNAP HOOK. RICHARD B. LLOYD, Aneroid, Saskatchewan, Canada. Filed Apr. 21, 1926, Serial No. 103,640. Renewed June 1, 1928. 3 Claims. (Cl. 24—233.)

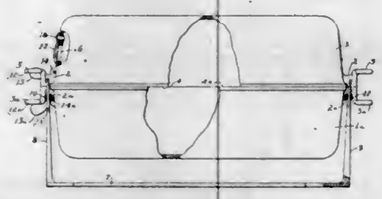


1. A snap hook including a hook member having a body and a bill, superimposed retaining tongues carried by the body of the hook and engaging the inner and outer faces of the bill of the hook, respectively, and means on the tongues adapted to be grasped to flex the tongues out of engagement with the said bill.

1,677,593. COOKING UTENSIL. JAMES MCEWAN, Palo Alto, Calif. Filed Aug. 27, 1927. Serial No. 215,860. 3 Claims. (Cl. 53—6.)

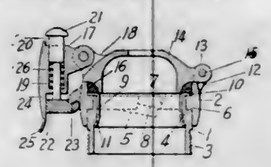
1. A device of the character described, comprising a pair of pans arranged in opposed relation to each other to form a closed receptacle, opposed complemen-

tary trunnion portions mounted on the pans, opposed and spaced finger plates mounted on the trunnion portions, detent members mounted in the opposed trunnion



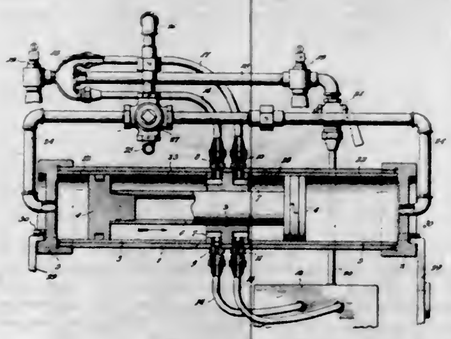
portions and finger plates, and supports for the said trunnions provided with means for engaging the detent members.

1,677,594. RADIATOR CAP. HENRY J. MESCHER, Dayton, Ohio. Filed Nov. 12, 1926. Serial No. 147,897. 2 Claims. (Cl. 220—24.)



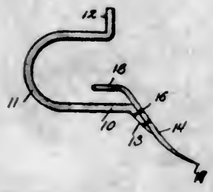
1. In a radiator cap, a tubular member having a circumferential shoulder, a collar having a part engaging said shoulder to support said collar thereon, and a sleeve arranged within the upper portion of said tubular member, having at its upper end a flange overlapping said part of said collar to retain the same on said tubular member and having its lower portion expanded into gripping contact with said tubular member to retain said sleeve within said tubular member.

1,677,595. SUPERPRESSURE LUBRICATOR. FRANK WESLEY PARKER, Boise, Idaho. Filed Mar. 26, 1927. Serial No. 178,746. 6 Claims. (Cl. 184—55.)



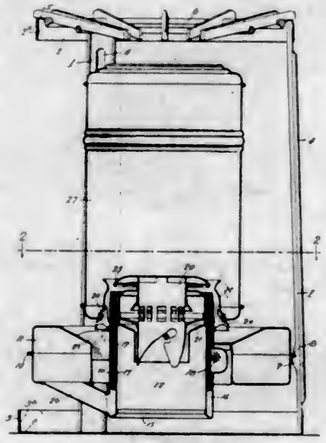
1. A lubricator of the character specified comprising a cylinder, a partition dividing the cylinder into chambers, tubes snugly fitted within the chambers and confining the partition between their inner ends, pistons in the chamber, means connecting the pistons and passing through the said partition, means for supplying pressure to opposite ends of the cylinder, induction and eduction pipes connected with the inner ends of the said chambers, valves for controlling the flow through the induction and the eduction pipes, and a distributing pipe in communication with the said eduction pipes.

1,677,596. CULTIVATOR TEETH. ALFRED J. PETERSON, Eland, Wis. Filed Sept. 25, 1926, Serial No. 137,739. Renewed June 7, 1928. 5 Claims. (Cl. 97—201.)



1. A device of the character described comprising a support standard having an intermediate portion offset rearwardly, and a sub-surface blade rigidly secured to the lower forward end of the standards disposed at an angular position having its lower end sharpened and projecting forwardly and its upper end extending rearwardly and disposed in a horizontal plane.

1,677,597. OIL STOVE. MARC RESEK, Cleveland Heights, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 12, 1925. Serial No. 1,819. 5 Claims. (Cl. 126—45.)

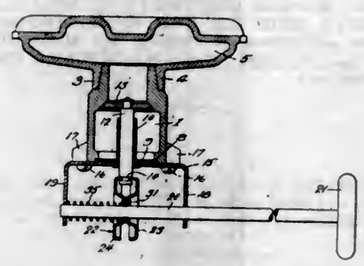


1. A stove comprising a top member, a bottom member, legs having their upper and lower ends detachably connected to said members, and a burner structure supported solely by and between the legs and detachably connected thereto, said burner structure serving to maintain the legs in such position as to prevent their disconnection from the top and bottom members.

1,677,598. VALVE. MARC RESEK, Cleveland Heights, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 21, 1927. Serial No. 162,529. 20 Claims. (Cl. 251—40.)

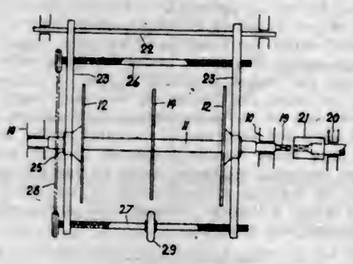
10. In a device of the character set forth, the combination of a reciprocable stem, a valve member having connection therewith, a spindle supported transversely

of the axis of reciprocation of said stem, a cam on said spindle comprising opposed sections having inwardly directed peripheral flanges, the spindle having



a groove in which said flanges engage, and means tending to urge the cam into frictional engagement with the stem.

1,677,599. METHOD AND MACHINE FOR THE PRODUCING OF TIGHTLY-COILED PAPER. FREDERIK SCHADE, Copenhagen, Denmark. Filed Feb. 9, 1927, Serial No. 166,889, and in Denmark Feb. 9, 1926. 6 Claims. (Cl. 242—55.)

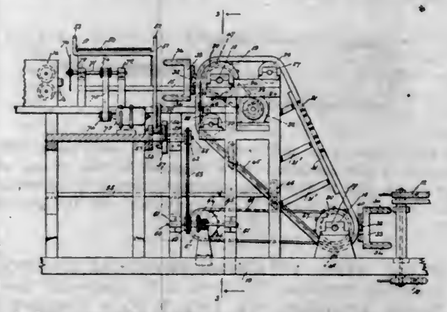


1. The method of producing tightly wound rolls of paper, which comprises coiling one end of the paper web on a rotating core of fixed diameter to form a compact central portion, and exerting lateral pressure on both edges of the outer convolutions of the web to retard the rotation of the outer convolutions until the pull exerted by the compact central portion of the web is sufficient to overcome said lateral pressure.

1,677,600. CONSTRUCTION OF STREET PAVEMENTS. AUGUST E. SCHUTTE, Northboro, Mass., assignor to Warren Brothers Company, Cambridge, Mass., a Corporation of West Virginia. Filed Sept. 10, 1925. Serial No. 55,619. 3 Claims. (Cl. 94—23.)

1. A method of constructing a roadway by laying upon a suitable foundation, a relatively thick layer of a mixture composed of a mineral aggregate and bitumen, capable of supporting the load to which it is subjected, rolling, tamping and consolidating this layer until cold and solid and incapable of being further distorted; then melting by heat the superficial layer of this lower layer and then placing upon it a wear resisting thin layer, and again rolling it into unison and close contact with the bottom layer, thus producing a roadway having a lower course relatively thick and heavily compacted, an upper course relatively thin, bound and cemented together into one inseparable layer.

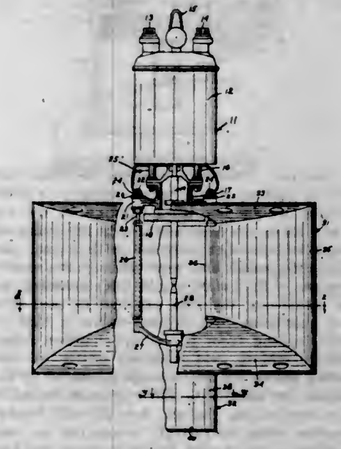
1,677,601. TRANSFER MECHANISM FOR SUGAR CANES. HENRY O. SCRANTON, Lafayette, La. Filed Oct. 12, 1926. Serial No. 141,085. 10 Claims. (Cl. 146—81.)



1. In a transfer mechanism, a conveyer device operating to move the cover longitudinally of the machine, and a rocking distributing device arranged to the rear of the conveyer device and operating to slide the canes laterally to the right and to the left of the machine alternately when discharged by the said conveyer device.

5. A transfer mechanism as set forth in claim 1, and having also mean for cutting off the tops of the canes while being slid laterally.

1,677,602. ARC LAMP. WILLIAM C. SPIETH, Geneva, Ohio. Filed June 24, 1927. Serial No. 201,154. 19 Claims. (Cl. 240—103.)

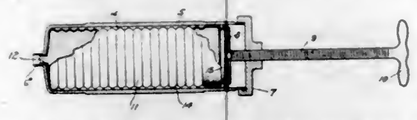


1. A reflector for use with an arc lamp of a type having vertically extending members flanking the arc on the two sides of the arc, comprising a top, a base, and a lateral wall connecting said top and said base, and provided with resilient fingers adapted to resiliently clamp said members to hold said reflector supported on said lamp quickly detachable therefrom.

1,677,603. GREASE-GUN GREASE CONTAINER. SVEND A. STEEN, Milwaukee, Wis., assignor to Wadhams Oil Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 3, 1924. Serial No. 747,569. 1 Claim. (Cl. 206—56.)

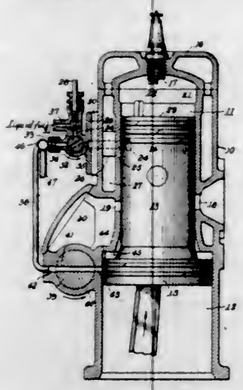
A grease gun grease container, comprising a cylindrical tubular lubricant container entirely closed at one end and formed of easily collapsible metal, said container having

one end closed and at its opposite end having a nozzle of a size and shape to fit within the nozzle of the grease gun but not extending therethrough, said container also having circumferential fold creases which engage the inner wall



of the grease gun and with the closed end outer side portion of the container being engaged by the piston of the grease gun to force the lubricant from said container and through the nozzle of the container and the grease gun.

1,677,604. FUEL INTAKE FOR TWO-CYCLE ENGINES. ALBERT B. STREETER, New York, N. Y., assignor to Dual Motors Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 7, 1925. Serial No. 13,671. 1 Claim. (Cl. 123—67.)



In an internal combustion engine, the combination of an explosion chamber and a pump chamber, a differential piston having its smaller head working in the explosion chamber and its larger head working in the pump chamber, said combustion chamber provided with a fuel inlet port intermediate its length and controlled by the smaller head of the piston, a fuel metering device including a rotary valve for measuring the fuel supplied to said inlet port, means for supplying fuel to said valve, a high pressure air conduit leading from the pump chamber adjacent its high pressure end to said metering device to blow from the metering device the fuel charge measured by the valve and to eject the same into the explosion chamber, a rotary valve controlling the air flow in said conduit, said rotary valves being operatively connected to operate in timed relation to the piston travel to cause the high pressure air to eject the fuel into the explosion chamber when the fuel inlet port is uncovered.

1,677,605. SOUND REPRODUCER. GASTON STROBINO, Paterson, N. J. Filed Feb. 17, 1926. Serial No. 88,835. 14 Claims. (Cl. 179—116.)



12. The combination of a resonating structure including a resonant hollow casing and an elastic vibratory element contained in the space of said casing and forming a projection therefrom vibratory independently thereof, means to vibrate said element and thereby the casing, and adjustable means to tension the casing and said element.

1,677,606. METHOD FOR PRODUCING WELLS AND STRAINER SHOE FOR THE SAME. THOMAS W. THORPE and GEORGE E. THORPE, Des Moines, Iowa. Filed Jan. 20, 1926. Serial No. 82,446. 6 Claims. (Cl. 166—21.)



1. The method of producing a well comprising the inserting in the ground of an outer casing until it reaches the desired depth, the inserting of an inner casing within the outer casing, the inner casing having a shoe at its lower end, the bottom of which is open, a strainer carried by the shoe, the forcing of the inner casing below the lower end of the outer casing until the strainer is exposed below the lower end of the outer casing, the withdrawal of a water bearing formation through said shoe and then removing the inner casing leaving the shoe and strainer for forming a continuation of the outer casing whereby water withdrawn through said outer casing will pass through said strainer.

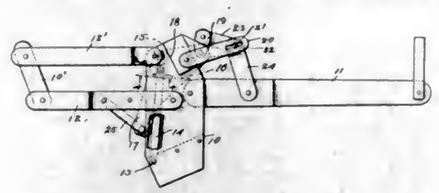
1,677,607. LOCK AND SEAL FOR SCREWS. FREDERICK H. WOOD, Chicago, Ill. Filed Sept. 24, 1926. Serial No. 139,567. 1 Claim. (Cl. 85—41.)



A staple for use in connection with a standard screw head with the usual cross slot and under cut periphery, comprising a head adapted to fit snugly into the cross slot, and prongs extending at an angle therefrom through the ends of said slot, each of said prongs having a hump on one side, and said head forming a projection on the opposite side, the projection forcing the hump into engagement with the undercut wall of the screw head.

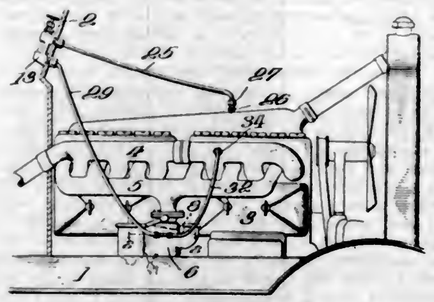
1,677,608. DRAFT EQUALIZER. JOSEPH WURZER, Carroll, Iowa. Filed Oct. 19, 1926. Serial No. 142,673. 1 Claim. (Cl. 278—8.)

A draft equalizer including a support, oppositely extending draft beams carried by the support, an angle member on the support, links connecting the angle portion of the angle member with one end of the support, a link connected with one end of the angle member and to one of said beams, links pivotally carried by the support and pivotally connected with one end of the angle member, one



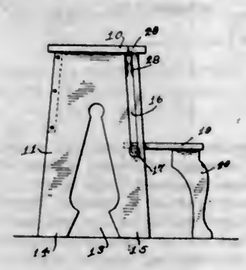
of said links being slidably connected with said angle member, and links carried by the other beam and pivotally connected with the other end of the angle member.

1,677,609. ATTACHMENT FOR CARBURETORS. JOHN F. ABEL, Burlington, Iowa. Filed Mar. 19, 1924. Serial No. 700,301. 4 Claims. (Cl. 123—25.)



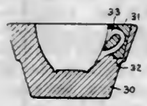
1. The combination with an internal combustion engine having a water cooling system containing water and glycerine, an exhaust manifold, intake manifold and a charge forming device connected thereto, of a Y coupling arranged to enter the carbureting passage of the charge forming device, each branch of the Y being provided with an air inlet, means for supplying glycerine mixed with water from the cooling system of said internal combustion engine to one branch of the Y coupling, and means for supplying exhaust gases to the other branch of said Y coupling from the exhaust manifold of said internal combustion engine.

1,677,610. COMBINATION STOOL AND STEPLADDER. JOSEPH H. ASSELIN, Waterbury, Conn. Filed Mar. 22, 1927. Serial No. 177,249. 2 Claims. (Cl. 228—30.)



1. In a collapsible combination stool and stepladder, a stool member, a step member adapted to be folded within said stool member and having a rod journaled in said stool member, said stool member having a resilient clip for detachably engaging said rod to hold said step member in collapsed position.

1,677,611. METHOD AND MEANS FOR SHAPING TEA-CUPS OR THE LIKE WITH INTEGRAL HANDLES. JOHN BAILEY, Cobridge, Stoke-on-Trent, England, assignor to Furnivals 1913 Limited, Cobridge, England, a British Company. Filed Sept. 9, 1927. Serial No. 218,373, and in Great Britain Jan. 14, 1927. 6 Claims. (Cl. 25—156.)



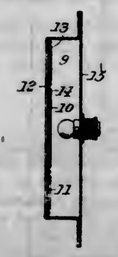
1. The process of forming a handle integral with a cup by molding comprising roughly forming by hand a clay handle and placing it in a separable handle molding member so that the ends of the handle slightly project, placing said separable member in the main molding member, and forming a cup therein in the usual well known manner, using the tool of the jolley to work the ends of said handle into the clay body of the cup while forming the same and after sufficiently drying the same inverting the mold to permit the clay cup and separable handle molding member to leave the main mold member.

1,677,612. SHOE. CHARLES C. BLAKE, Brookline, Mass., assignor to C. C. Blake, Incorporated, Boston, Mass., a Corporation of New York. Filed Feb. 9, 1921. Serial No. 443,581. 10 Claims. (Cl. 36—17.)



1. As an article of manufacture an insole for a welt shoe comprising a sole-shaped body portion having its extreme edge upturned to form a vertical peripheral wall and a solid sole-shaped blank filling the cavity within the wall.

1,677,613. LICENSE PLATE AND METHOD OF DISPLAYING THE SAME. LOUIS L. BARR, Pittsburgh, Pa. Filed Aug. 18, 1927. Serial No. 213,811. 1 Claim. (Cl. 40—133.)



Apparatus for displaying license tags comprising a base plate having holes for the reception of attaching members, a casing of box-like form open at one side, means for securing said open side to the base plate, that wall of the casing opposite to said opening having

three vertically-spaced cut-out portions, a frame having two openings opposite to two of said cut-out portions, a frame having an opening opposite to the other of said cut-out portions, an upper and a lower marginal flange on the last-named frame, for engaging the edges of a license plate, upper, lower and intermediate flanges on the first-named frame for engaging the edges of two license plates and supporting them in vertically-spaced relation, and means for separately connecting said frames to the casing.

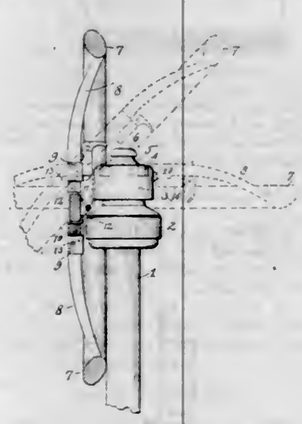
1,677,614. PROCESS OF MAKING A SIZE OR DRESSING. AUGUSTE BOIDIN, Seclin, France, and JEAN EFFRONT, Brussels, Belgium. Filed Feb. 24, 1925. Serial No. 11,329. 8 Claims. (Cl. 127—35.)

1. The process of producing sizing material, which comprises directly subjecting starch material to the action of a suitable starch-liquefying bacterial enzyme until at least a part of the starch has been liquefied, and then stopping the enzyme action.

1,677,615. PREPARED STARCH MATERIAL AND PROCESS OF MAKING IT. AUGUSTE BOIDIN, Seclin, France, and JEAN EFFRONT, Brussels, Belgium. Filed Feb. 24, 1925. Serial No. 11,330. 8 Claims. (Cl. 127—35.)

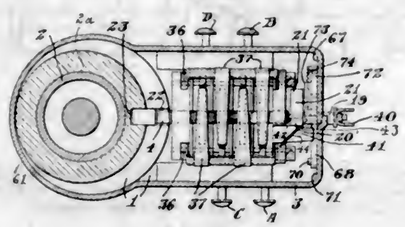
1. The process of making a dry starch product suitable for the preparation of sizings, which consists in combining a preparation of enzymes, made by micro-organisms capable of liquefying starch, and a neutral starch, and controlling the relative moisture content of the enzyme preparation and the starch so that the resultant product will not contain more moisture than an air-dried product.

1,677,616. STEERING WHEEL. ADELBERT E. BRONSON, Cleveland, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 14, 1925. Serial No. 2,248. 5 Claims. (Cl. 74—33.)



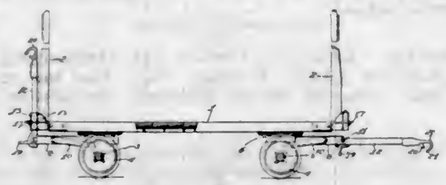
1. A steering wheel construction comprising a member which is adapted to be secured to a steering post, a steering wheel having a rim and spokes, a member to which the inner ends of the spokes are connected, said member being adapted to fit over a portion of the first mentioned member, a hinge member having a portion thereof secured to the first mentioned member, and another portion thereof pivotally connected with the steering wheel, said hinge members folding into engagement with each other when the steering wheel is in operative steering position.

1,677,617. SAFETY LOCK. HENRY N. CARRAGHER, Fall River, Mass. Filed Nov. 23, 1927. Serial No. 235,258. 6 Claims. (Cl. 70—54.)



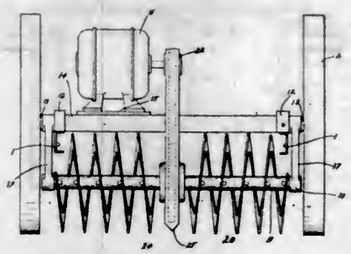
1. In a keyless combination lock, a spring-operated disc with teeth along its circumference; a spring-operated dog to engage said teeth, said dog being pivoted, and having in its free end-portion a holding slot; a spring-operated distance-holder, pivoted at end and having a pin in its free end-portion, said portion normally to engage said groove in said dog and hold said dog out of engagement with said teeth, a slidable plate, normally operated in one direction, and a spring to move it in an opposite direction, said plate having a pawl to engage and disengage said teeth and actuate said disc, and a cam-surface in engagement with said pin in said distance-holder to cause said holder to disengage said slot and permit said dog to pass by said member to engage said teeth on said disc; and means to cause said dog, against the action of its spring, to disengage said teeth, the free end-portion of said dog engaging the free end-portion of said distance-holder, forcing it down, and passing by it, so that the free end-portion of the holder may, by the action of its spring engage said groove in said dog and hold said dog free from said teeth, and allow the spring of said disc to move said disc.

1,677,618. INDUSTRIAL TRAILER. CHARLES G. CLEMENT, Edgerton, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin. Filed Aug. 24 1925. Serial No. 51,901. 5 Claims. (Cl. 280—33.5.)



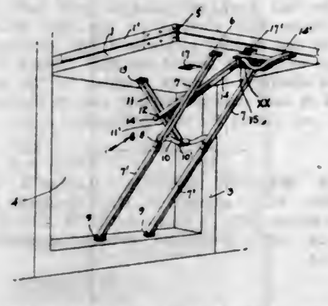
1. In a dirigible truck, a body, a tongue or drawbar connected for steering the wheels at one end and jointed at a point closely adjacent the vertical plane of the end of the body and at a suitable distance from the steering pivot for folding of its end portion upwardly against said end of the body, vertically extended rigid guard flanges on the end of the body between which said tongue is received for holding the wheels against steering motion and a spring catch associated with said guard flanges for retaining the tongue in upright position between said flanges.

1,677,619. SAND-MIXING MACHINE. RUSSELL H. CLEMINSHAW, Shaker Heights, Ohio, assignor to The Cleveland Electric Motor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 17, 1927. Serial No. 176,011. 2 Claims. (Cl. 259—144.)



2. An apparatus of the character described having in combination a wheeled support, a sand mixing cylinder mounted on said support, and non-rotatable means engaged centrally with said mixing cylinder and projecting downwardly to provide a sand distributing means centrally of said cylinder.

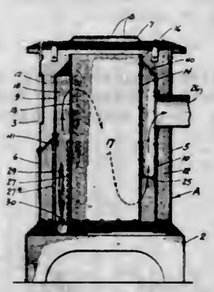
1,677,620. FOLDING BRACE. EARLE W. CUMMINGS, Santa Barbara, Calif., assignor of one-half to Santa Barbara Lumber Company, Santa Barbara, Calif., a Corporation of California. Filed Aug. 23, 1926. Serial No. 130,894. 3 Claims. (Cl. 45—47.)



2. In a folding article of the character described, a folding strut brace comprising two channel sections arranged in endwise mortised relation and laterally offset whereby the legs of one channel section lie to the same sides of the respective legs of the other channel section, the legs of the two sections transversely pivoted together, and the end of the web of one section being offset to lie upon the web of the other section when the sections are unfolded to bracing position.

1,677,621. COMBINATION CONVECTION AND RADIANT HEATER. SAMUEL J. DELANEY, Oakland, Calif. Filed Mar. 23, 1925. Serial No. 17,511. 2 Claims. (Cl. 126—92.)

1. A heater of the character described comprising a main exterior casing vertically disposed and elongated, and rectangular in shape in cross section, a base member forming a support therefor, a perforated plate forming a cover, an intermediate casing supported by the base and interspaced with relation to the exterior casing to form an air heating passage in communication with air inlet openings formed in the base and with the perforated cover, an inner casing disposed within the intermediate casing and interspaced therefrom to form a front passage, a rear passage and a pair of side passages, a gas burner, means for directing the products of combustion liberated by the burner upwardly into the front passage, baffle members directing the products of combustion downwardly through the side passages and then upwardly through the rear passage, and a vent pipe connected with the upper part of the rear passage.

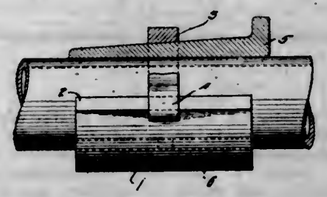


1,677,622. TOOL. EMILE JOSEPH DREUIL, New Orleans, La. Filed Oct. 19, 1926. Serial No. 142,772. 2 Claims. (Cl. 173—359.)



1. A tool, for manipulating a two-part electric screw plug, one part of the plug having prongs, comprising a stem having a disk extending angularly from one end thereof and adapted to be disposed between the parts of the plug and having an angular opening snugly receiving the said prongs therethrough to permit rotation of the plug upon rotation of the tool, and an apertured handle on the other end of the stem receiving an electric cord therein.

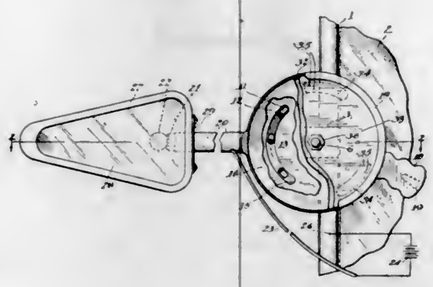
1,677,623. PATCH CLAMP FOR PIPES. OLIVER P. EILAR, Lawrenceville, Ill. Filed Apr. 16, 1927. Serial No. 184,264. 1 Claim. (Cl. 24—25.)



A patch clamp for a pipe comprising a flanged semi-cylindrical saddle, a patch interposed between said saddle and said pipe adapted to stop a leak in said pipe,

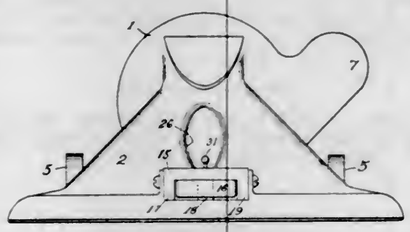
a clamping member having grooves, said grooves adapted for interlocking engagement with the flanges of the saddle and a wedge positioned between the pipe and clamping member to frictionally hold the assembled members tightly in position.

1,677,624. TRAFFIC SIGNAL FOR MOTOR VEHICLES. CLAUDE B. FERRO, San Bernardino, Calif. Filed Nov. 6, 1924. Serial No. 748,108. 6 Claims. (Cl. 117—327.)



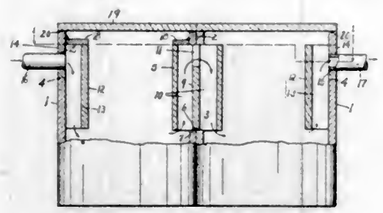
1. A traffic signal comprising in combination a fixed conducting disc, an oscillating conducting disc, means to secure the fixed disc to a vehicle and pivotally mount the oscillating disc in relation to the fixed disc, a stationary insulating disc between the fixed and oscillating discs and having a slot therein, a handle and semaphore connected to the oscillating disc, a lamp to illuminate the semaphore, an electrical circuit to and from the lamp, electrical make and break contacts on the fixed and oscillating disc located in the slot in the insulating disc and actuated to make and break the electric circuit by movement of the handle.

1,677,625. SUCTION CLEANING DEVICE. WALTER A. FRANTZ, Cleveland, Ohio, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 10, 1924. Serial No. 742,757. 7 Claims. (Cl. 15—13.)



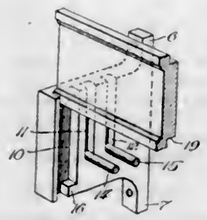
1. The combination with a suction cleaner casing having a collecting nozzle, of an agitating device therein, an electromagnetic member rigidly connected to said agitating device, a companion electromagnetic member carried by said casing in operative magnetic relation with said first member, and means independent of said electromagnetic members for producing suction in said nozzle.

1,677,626. SEPTIC TANK. JOSEPH FRAPPY, Stirling, Ontario, Canada. Filed Oct. 26, 1927. Serial No. 228,867. 12 Claims. (Cl. 210—6.)



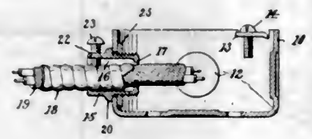
1. A septic tank comprising cylindrical containers having flattened side faces with openings therein disposed in opposed abutting relation with their openings registering, said containers also having side openings in their walls opposite said flattened faces, a combined locking and passage member disposed vertically in said registering openings and fitting therein to constitute a locking member for said containers, said passage member having a vertical partition aligned with the abutting walls of said containers and having an opening at the top thereof providing a pair of vertical passages connected at the top and coacting to provide a return passage connection for said containers, inlet and discharge conduit baffle members of channel cross section disposed on the inner sides of said containers to coact with the walls thereof providing vertical inlet and discharge passages, said baffle members having outer wall portions at the tops thereof conformed to and secured within said side openings in said container walls and having openings therein to receive inlet and discharge conduits, closures for the top of the passages of said passage member and of the inlet baffle member, and covers for said containers.

1,677,627. WINDOW CORNICE. HARVEY L. GOODROW, Hinsdale, Ill., assignor to Wm. Goodrow Moulding Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 24, 1927. Serial No. 214,993. 2 Claims. (Cl. 156—13.)



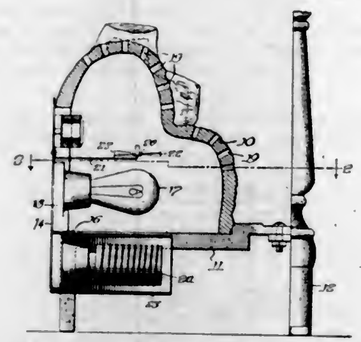
1. In a window cornice in which is comprised a face moulding board, a support therefor comprising an end bracket adapted for rigid attachment to a wall, said bracket vertically slotted from its upper edge with two of the slots terminating short of the lower edge and the third slot which is forwardly of the others being extended clear through to the lower edge thereof, a ledge extending part way across the third slot adjacent the lower edge of the bracket to provide a rest, and the face moulding board being rabbeted whereby to provide a shoulder which may rest upon the ledge when the moulding is slid vertically into said forward slot, the upper and lower edges of the moulding board disposed flush with the face of the end bracket, substantially as described.

1,677,628. CABLE CONNECTER FOR OUTLET BOXES. HARRY V. GOULD, Bridgeport, Conn. Filed Jan. 12, 1927. Serial No. 160,595. 1 Claim. (Cl. 247—25.)



A cable connecter comprising a cylindrical sleeve, an external annular flange intermediate its ends and including a series of pointed projections formed upon one side of said flange, threads upon the outer periphery of one end portion of said sleeve adjacent said points, a nut fitted upon the threads, and means upon the other end of said sleeve for clamping a cable.

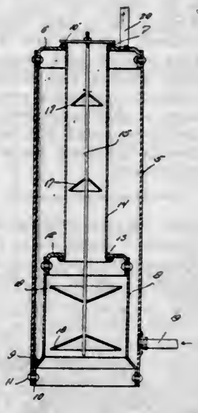
1,677,629. ATTACHMENT FOR LOGS AND GRATES. FRED GEORGE GROSS, Chicago, Ill., assignor to Mrs. Clara Schneider, Chicago, Ill. Filed Aug. 24, 1925. Serial No. 51,921. 1 Claim. (Cl. 219—45.)



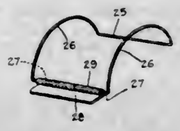
In an electric log the combination of end walls and apertured top and front walls, with a removable back having an electric bulb and socket and a heating socket secured to and projecting forwardly from the back, said back having a downwardly extending portion to provide an exterior mounting for the heating socket, said bulb being mounted within the log in a position that no light rays pass directly through said apertured top and front walls, and conductors connecting said bulb and heating coil, whereby the entire lighting and heating elements can be easily and quickly assembled and dismantled.

1,677,630. STEAM BOILER. CLARENCE HENRY HAAS and LEWIS JOHN MITCHELL, Warren, Ohio. Filed Feb. 19, 1926. Serial No. 89,452. 2 Claims. (Cl. 122—155.)

1. A vertical single flue boiler having an annular steam and water chamber surrounding said flue and coextensive therewith, the base portion of said chamber being of restricted width from inner to outer wall, and a baffle disposed in said flue, said baffle including a deflecting member in the form of an imperforate cone-shaped plate with its apex uppermost, said member located adjacent the flue inlet and being of a diameter approximating that of the flue.

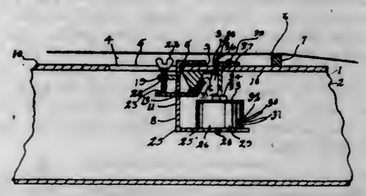


1,677,631. ANTIBACKLASH ATTACHMENT FOR REELS. LOUIS A. HAAS, St. Paul, Minn. Filed Aug. 1, 1927. Serial No. 209,859. 5 Claims. (Cl. 242—84.5.)



2. An article of the class described, including a length of wire bent into four-sided shape to form a head member over which a line from the spool of a reel may pass, arched arms bent back from said head member and adapted to ride the flanges of the reel spool, and aligned butt-pieces bent inward from said arms in parallelism with said head member, said article further including a fulcrum member fitted on said butt-pieces, said fulcrum member being adapted to engage a tie-member of the reel frame and limit the forward movement of the article within a reel.

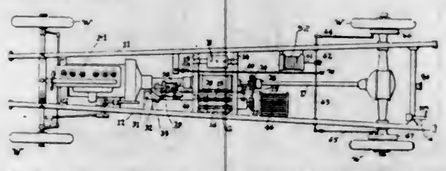
1,677,632. SOUND-WAVE TRANSMITTING AND AMPLIFYING DEVICE. WALTER HARDEN, Cincinnati, Ohio. Filed Mar. 21, 1927. Serial No. 176,863. 5 Claims. (Cl. 179—1.)



1. The combination with a stringed musical instrument having a rib and having a sounding-board, of a U-shape support comprising a link having an upper and a lower

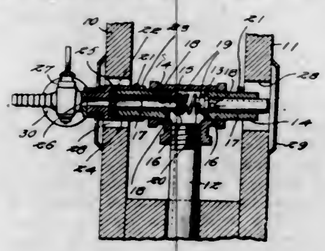
leg, an arm pivotally connected with said link, a stud fixed to the upper end of said link and having a hole therein, a thumb-screw threaded in said hole and adapted to engage an end of said arm, thereby forcing the other end of said arm in engagement with said rib, thereby maintaining said upper leg in fixed relation adjacent the top of said instrument, whereby said U-shape support is maintained in fixed position with respect to said instrument, a transmitter fixed to said lower leg and having a diaphragm, a vibration conductor operatively connected with the diaphragm of said transmitter and said sounding-board, and means connected with said transmitter to reproduce and amplify the sound waves produced by the strings of said instrument.

1,677,633. POWER BRAKE FOR MOTOR VEHICLES. ARTHUR W. HARRISON, Eagle Rock, Calif., assignor of one-half to Thomas D. Sexton, Los Angeles, Calif. Filed Nov. 20, 1924. Serial No. 751,078. 9 Claims. (Cl. 188—159.)



5. An automobile brake comprising an electric generating device associated with the drive mechanism of an automobile, a load for said generating device, and means including a lever located in the driver's compartment of the automobile for varying the field resistance of said generating device.

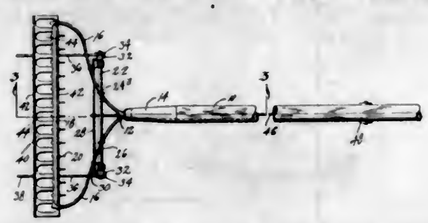
1,677,634. GAS OUTLET. EDGAR W. HORTON and HORACE G. RICHARDSON, San Antonio, Tex. Filed July 2, 1926. Serial No. 120,094. 1 Claim. (Cl. 284—18.)



A gas outlet including a gas conduit, a T on an end of the conduit, a sleeve screwed into each of the lateral branches of the T and having the inner end of the bore thereof formed with a beveled seat, said sleeve having a radial pin outwardly of the branch of the T, a hollow stem slidable in the bore of each of the sleeves and having its outer end open and its inner end closed, said stem having lateral openings in its closed end and a peripheral beveled valve forming flange, seated on said seat, a coil spring disposed between the inner ends of the stems and having its ends encircling the said stems and bearing against said valve flanges whereby to yieldably maintain the flanges on the seats, the outer end of each of said sleeves being arranged to receive thereon a bayonet-slotted cap provided with a threaded portion for reception of a valved nipple.

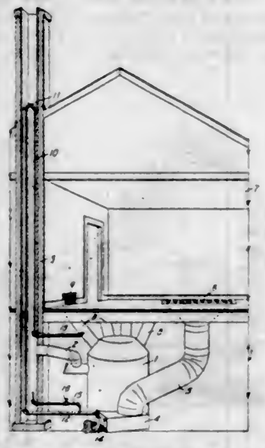
1,677,635. CLEANER ATTACHMENT FOR RAKES. FLETCHER A. HOWE and NIELS C. BANG, Spencer, Iowa. Filed May 31, 1927. Serial No. 195,206. 3 Claims. (Cl. 55—146.)

1. An attachment for rakes comprising a cross rod, means for mounting said rod on a rake, said means comprising a half round rod extending around portions of the rake and said cross rod, the ends of said half round rod being threaded for forming a bolt when brought adjacent each other and a nut on said ends, a cross member having right-angled extensions at its ends terminating in loops rotatably mounted on said rod, said loops having



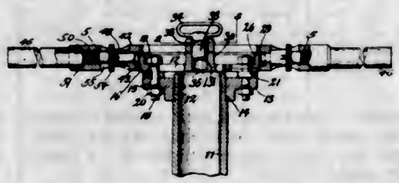
parallel arms projecting away therefrom, a tooth cleaning grid secured to said last-named arms spaced from the extreme free ends thereof formed with a plurality of elongated openings, a link member pivoted to said second-described rod, a yoke adapted to be pivoted to a rake handle and to said link having a projecting handle.

1,677,636. FLUE HEATER. WILLIAM D. JOHNSTON, Independence, Mo. Filed Oct. 28, 1927. Serial No. 229,350. 8 Claims. (Cl. 126—110.)



1. In combination with a smoke flue and a hot air pipe of a heating system, a heating device comprising a tube connected with the hot air pipe and having a portion provided with a bend extending in the flue, and a fan adapted for impelling air through the tube to the hot air pipe.

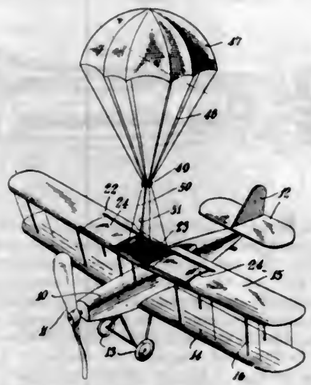
1,677,637. PIPE-FLANGE WRENCH. WILLIS H. JONES, Buffalo, N. Y. Filed June 18, 1925. Serial No. 37,938. 10 Claims. (Cl. 81—63.)



1. A pipe flange wrench comprising a circular body provided with a plurality of radial slots which are arranged at differently spaced distances from each other

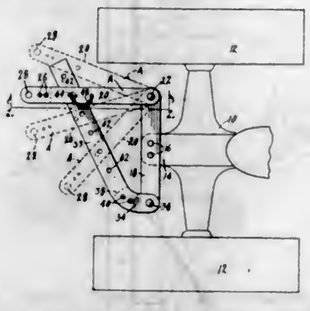
in a direction circumferentially of the body, bolts adapted to pass through some of the said slots and the pipe flange to be turned, and a ratchet mechanism for turning said body.

1,677,638. SAFETY DEVICE FOR AIRPLANES. ALBERT JOST, Yonkers, N. Y. Filed Mar. 17, 1927. Serial No. 175,984. 4 Claims. (Cl. 244—21.)



1. An airplane comprising a fuselage having upper and ower wings, a chamber in the upper wing having an opening in its upper wall, a parachute anchored in said chamber and normally folded therewithin, covers for the opening slidable outwardly in the upper wing to permit egress of the parachute, means to release said covers from the fuselage, and means for directing air to the parachute.

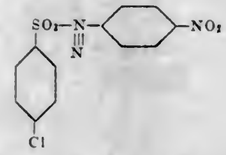
1,677,639. TRACTOR HITCH. MARTIN T. KAMERICK, Pella, Iowa. Filed Sept. 12, 1927. Serial No. 218,975. 1 Claim. (Cl. 280—33.44.)



A tractor hitch comprising a bar adapted to be secured to a fixed portion of a tractor at right angles to the line of draft of the tractor, a draw bar pivotally mounted upon one end of said first bar, said draw bar being formed of two spaced similar members straddling said first bar at one end, a filler block between the other ends of said members, said draw bar having an opening therein for connection to an implement to be drawn, a link pivoted at one end to the other end of said first bar, said link having one portion bent at an angle and having another portion slidably mounted between the two members of said draw bar, said link having a plurality of spaced openings therein adapted to selectively register with aligned openings formed in the draw bar and a pin element for locking said link relative to said draw bar and for forming a rigid tractor hitch.

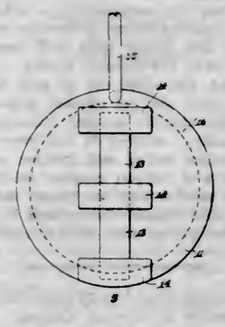
1,677,640. SOLID DIAZOSALT. FERDINAND KELLER, Offenbach-on-the-Main-Burgel, and KARL SCHNITZSPAHN, Offenbach-on-the-Main, Germany assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 11, 1927, Serial No. 167,580, and in Germany Feb. 12, 1926. 4 Claims. (Cl. 260—69.)

4. As a new product the solid diazosalt of the formula:



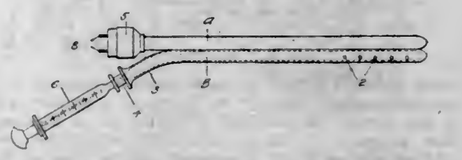
being an almost colorless and well soluble powder and being substantially identical with a compound obtainable by double decomposition reaction of mineral acid diazosalt solution of para-nitraniline either with a parachlorobenzene sulfonic metal salt or with free parachlorobenzene sulfonic acid.

1,677,641. DRAINING PAD. JUSTUS R. KINNEY, Jamaica Plain, Mass. Filed Apr. 24, 1926. Serial No. 104,318. 5 Claims. (Cl. 128—275.)



1. An imperforate disk having secured to the bottom thereof an annular inflatable member and provided with a draining passage extending through the walls of said inflatable member and adjacent the bottom surface thereof.

1,677,642. INTERNAL APPLICATOR. WILLIAM J. KIRK, Wellsburg, W. Va. Filed Dec. 9, 1926. Serial No. 153,558. 3 Claims. (Cl. 128—255.)



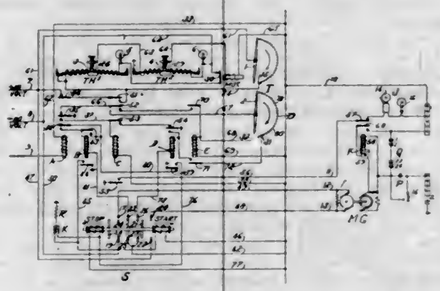
1. An applicator of the class described consisting of a double barrelled elongated multi-tubular body tapered at its outer end providing a common entering terminal and having a middle longitudinal partition forming a closed heater cavity and a perforated medication cavity, a heater in the heater cavity, and a syringe connected with the medication cavity.

1,677,643. COUNTERBALANCING DEVICE FOR WINDOW SASHES. NELS A. LEREN, Minneapolis, Minn. Filed Nov. 21, 1925. Serial No. 70,501. 8 Claims. (Cl. 16—197.)



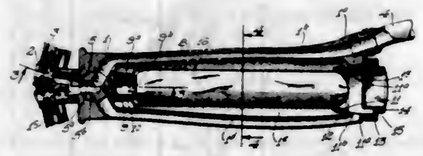
1. In combination with a window frame and upper and lower sliding sashes therefor, counter-balancing mechanism having in combination a guide member at the top of said window frame, a flexible member secured at one end to said upper sash and passed over said guide member, said lower sash having a vertical seat in a side thereof, the other end of said flexible member extending into said seat, a tubular member about the lower end of said flexible member slidable in said seat, a contacting member secured to the lower extremity of said flexible member below said tubular member, and a coiled spring on said tubular member interposed between said contacting member and the upper end of said seat, and a lock for holding said lower sash in a plurality of positions relative to the side of said window frame.

1,677,644. AUTOMATIC BATTERY-CHARGING SYSTEM. CLARENCE E. LOMAX, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Aug. 18, 1924. Serial No. 732,639. 11 Claims. (Cl. 171—314.)



1. In combination, a storage battery provided for an equipment which intermittently draws current from said battery, there being periods of times of variable duration during which no current is required, charging means for said battery, a switching device for automatically connecting said charging means when current is required and for causing its disconnection during periods in which no current is required, and means comprising a plurality of electrically operated apparatuses including a stepping device for automatically delaying the operation of said switching device for a predetermined period of time.

1,677,645. SUDS-PRODUCING MEANS. THURE A. LUTHANDER, San Diego, Calif. Filed Dec. 3, 1924. Serial No. 753,655. 5 Claims. (Cl. 299—84.)



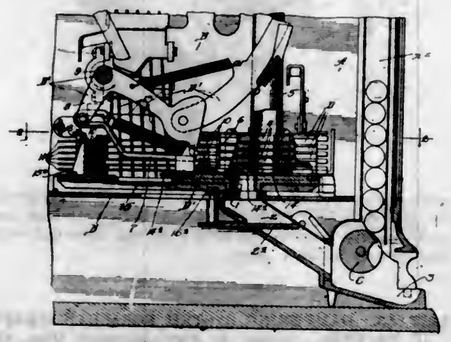
1. In a means of the class described, the combination with a liquid conducting means provided with a two-way valve, the one position thereof permitting unobstructed flow of the liquid in said conductor means, other conductor means adapted to be connected with said first mentioned conductor means through said valve when the same is shifted to the other position, an unobstructed flexible and contractible container adapted to fit snugly around a bar of soluble substance and communicating at one end with said other conductor means, and a third conductor means adapted to connect the other end of said container with said first mentioned conductor means beyond said valve.

1,677,646. STORMPROOF AWNING. RAYMOND L. MEYERS, Miami, Fla. Filed Dec. 15, 1926. Serial No. 155,073. 1 Claim. (Cl. 189—35.)



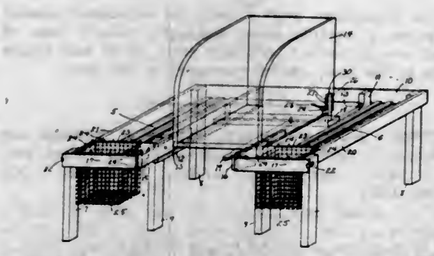
A combined awning and shutter comprising a channeled frame adapted to be secured to a window frame, an angular roller support in transverse position at one end of the frame, a metal curtain including narrow plates movably connected together and adapted to be engaged with the faces of the roller upon rotation of the latter, wider plates connected together and to the narrow plates and arranged to extend downwardly and outwardly from the channeled members of the frame to form an awning when said narrow plates are wound on said roller, and a pivotally mounted yoke carried by the channeled side members of the frame and connected with the outer end of the outermost of the wider plates, all of said plates being adapted to lie within the channels of the frame to form a protective shutter for a window when the narrow plates are wound from the roller.

1,677,647. SAFETY-CATCH DEVICE. FRED L. MILLS, Oak Park, Ill., assignor to Mills Novelty Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 11, 1926. Serial No. 80,569. 6 Claims. (Cl. 312—84.)



1. In a machine of the character set forth, the combination with a coupon magazine and pay-out mechanism associated therewith comprising a stack of pay-out slides, springs for actuating said slides, and latch-members associated with said slides, of a safety-catch device lightly held normally adjacent the path of the pay-out slides and adapted to be thrown into the path of the slides in position to catch the slides in partially retracted position when the machine is subjected to jarring action.

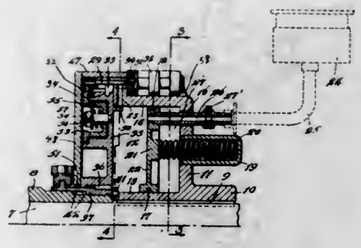
1,677,648. LAUNDRY-CLASSIFYING TABLE. ANTHONY T. MOORE, New Haven, Conn., assignor to Perrys Incorporated, Waterbury, Conn., a Corporation. Filed Nov. 18, 1927. Serial No. 234,092. 4 Claims. (Cl. 211—10.)



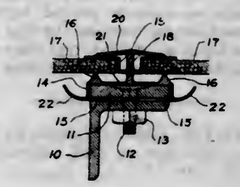
1. A laundry classifying table, comprising two table parts with supports therefor, a hopper pivotally mounted between said tables near the forward ends thereof, and a locking-bar pivoted to the underside of said hopper near its rear end and adapted to be turned into engagement with the inner sides of said tables when the hopper is in its raised position, said hopper provided with handles by which it may be raised or lowered.

1,677,649. LUBRICATING MECHANISM FOR SPROCKET CHAINS. EDMUND C. MORGAN, deceased, New York, N. Y., by Olive Eugenie Morgan, executrix, New York, N. Y. Filed Aug. 13, 1923. Serial No. 656,988. 28 Claims. (Cl. 184—15.)

1. In lubricating apparatus for chains of mining machines, the combination with a sprocket wheel, of lubricating mechanism mounted concentrically upon said sprocket wheel, and means for directing lubricant from such lubricating mechanism endwise of and in alinement with the axes of the pivotal bearings between links of the chain meshing with said sprocket wheel by feeding the lubricant axially into the interior of the pivot pins.

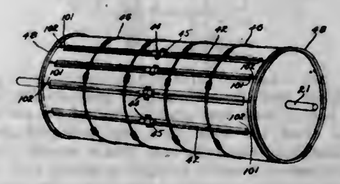


1,677,650. GLAZING BAR. ELMER L. NELSON, Chicago, Ill. Filed July 28, 1924. Serial No. 728,604. Renewed Dec. 19, 1927. 5 Claims. (Cl. 108—16.)



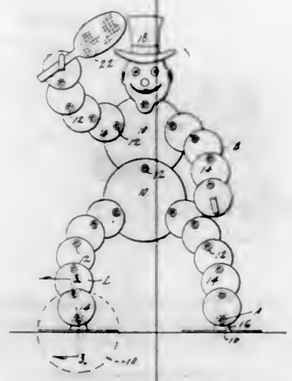
1. A glazing bar comprising a flat bar, a supporting member, and a glazing member partially surrounding the flat bar and having lips firmly secured between said flat bar and supporting member, said glazing member having means for supporting a pane of glass and means for sealing said glass.

1,677,651. ELECTRIC ROASTER. WILLIAM J. NOONAN, Mansfield, Mass. Filed Feb. 12, 1927. Serial No. 167,719. 7 Claims. (Cl. 219—19.)



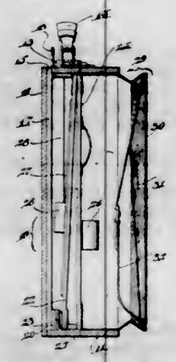
4. A heating drum made of heat conducting material having a plurality of electric heating elements mounted on its periphery longitudinally thereof and in electrical contact therewith, means for clamping each of the said heating elements to the drum substantially midway of the length of the heating elements to prevent longitudinal movement of the heating elements at the said midway clamping point, and hoops which encircle the drum and all the attached heating elements and bind them sufficiently to hold them in contact with the drum yet permitting longitudinal expansion and contraction on opposite sides of the midway clamp.

1,677,652. FIGURE TOY. CLYDE A. PECK, Newton, Iowa. Filed July 20, 1927. Serial No. 207,105. 5 Claims. (Cl. 46—40.)



5. A toy comprising a series of flat substantially disc-like members including larger members forming the body and head of a toy, the body and head members being pivoted together, and a series of pluralities of smaller disc-like members successively pivoted together to each other and to the body for forming the legs of a toy, the respective discs being so pivoted that they may be frictionally held in any position to which they are adjusted.

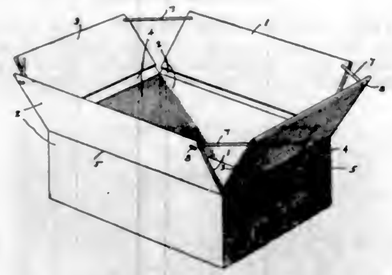
1,677,653. UTILITY CASE. FRANK PHILIPPI, Philadelphia, Pa. Filed Apr. 8, 1927. Serial No. 181,913. 5 Claims. (Cl. 190—10.)



1. A utility case including a body part, guides fixed in the body part, a desk tray slidable behind the guides and extendible from the body part, an accessory carrying member hinged to the body part, and a second accessory carrying member hinged to said member and to the desk tray, whereby extending the desk tray will cause the accessory carrying members to stand at an angle to the body part and retracting the desk tray will cause said members to fold together.

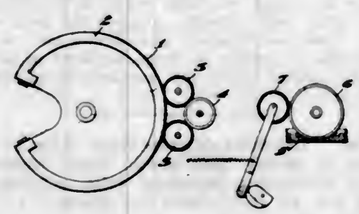
1,677,654. DISPLAY CONTAINER. EDMUND M. PITTS, Fresno, Calif., assignor to Sunland Sales Cooperative Association, Fresno, Calif., a Corporation of California. Filed Jan. 19, 1927. Serial No. 162,038. 4 Claims. (Cl. 206—44.)

4. A rectangular cardboard box provided with flaps extending from its four sides adapted for covering the top of the box, said flaps being bendable at the upper edges of the box to lie within the box to form a coverless open box, and the four vertical walls of said box being horizontally scored entirely around the box and



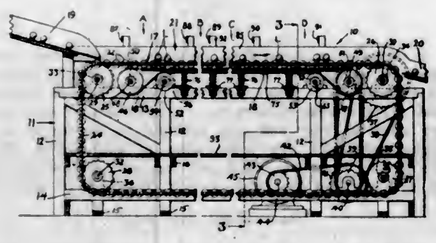
weakened at the corners down to the score line whereby the four sides of the box may be bent outwardly from said score line to form an outwardly flaring open box with doubled-over exposed edges.

1,677,655. DAMPENING SYSTEM FOR PLANOGRAPHIC PRESSES. ROBERT F. REED, Norwood, Ohio, and WALTER SCHOLL, Washington, D. C., assignors to The Lithographic Technical Foundation, Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 15, 1927. Serial No. 168,457. 2 Claims. (Cl. 101—148.)



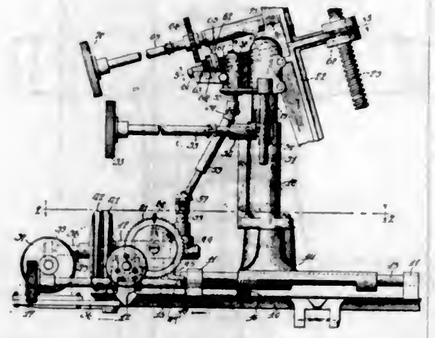
1. A lithographic press wherein the impression member comprises a metallic plate, dampening rollers, some of which are, in contact with said plate, all of said rollers being at the same electric potential as the plate.

1,677,656. SORTING TABLE. FRANK B. ROBERTS and WILLIS G. HUNTINGTON, Anaheim, Calif. Filed Feb. 12, 1927. Serial No. 167,624. 7 Claims. (Cl. 209—125.)



1. In a fruit grading device an endless conveyor including spaced rollers mounted for rotation, means for driving said conveyor and means for turning said rollers, means for driving said roller turning means and adjustable resilient means for positively causing said roller turning means to engage said rollers.

1,677,657. ARC-LAMP MOTOR FEED. ALVAH C. ROEBUCK, Chicago, Ill., assignor to The Enterprise Optical Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 17, 1922. Serial No. 545,281. 7 Claims. (Cl. 176—73.)



1. Arc lamp feeding means comprising a carbon feeding screw; a shaft operatively connected with said screw; a motor driven connection having a portion rotatably mounted on said shaft; a clutch collar rotatably mounted on said shaft and in engagement with the motor driven connection; a gear having clutch teeth fixed on said shaft; means for moving said collar into and out of operative relation with said clutch teeth and hand-operated means for driving said gear.

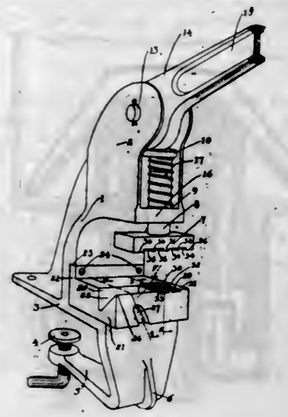
1,677,658. CHAIN TOOL. JAMES WEBB SAFFOLD, Cleveland, Ohio. Filed June 1, 1925. Serial No. 34,060. 3 Claims. (Cl. 81—15.)



2. In a chain tool for opening and closing the eyes of tire chain chain cross-links, a pair of relatively movable jaws having opposed jaw faces, the face of one of the jaws comprising a pair of parallel grooves and a third groove disposed at the ends of, communicating with, and disposed transversely of the said parallel grooves, and a wedge-shaped horn disposed parallel with the transversely disposed groove extending from the jaw toward the opposed face of the other jaw, said other jaw having a recessed portion adapted to receive a part of a chain cross-link, disposed between the jaws and having other portions projected into the said parallel grooves thereof.

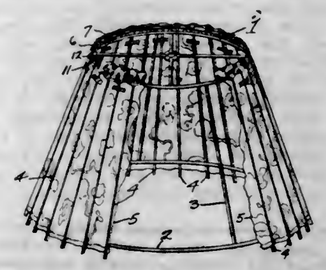
1,677,659. CHAIN TOOL. JAMES WEBB SAFFOLD, Cleveland, Ohio. Filed Feb. 26, 1926. Serial No. 90,782. 10 Claims. (Cl. 81—15.)

10. In a chain tool for opening and closing the eyes of a cross-chain link of anti-skid chains, a pair of jaws, one of said jaws a stationary jaw and the other said jaw movable relative to the stationary jaw, means for moving the movable jaw, said stationary jaw having a recess extending transversely on the upper face, a wedge shaped horn extending upwardly from the recess



and a groove in the horn, said groove adapted to receive and retain a link while an adjoining link is mounted on the horn in direct alignment with the thrust of the movable jaw.

1,677,660. LAMP SHADE. SADASUKE SATO, San Francisco, Calif. Filed Mar. 14, 1927. Serial No. 175,153. 4 Claims. (Cl. 240—108.)

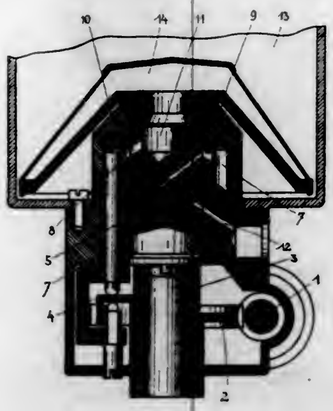


1. A lamp shade shaped as a truncated cone and consisting of a covering of pleated formation; strips secured to the covering in line with the pleats, each of said strips having a shoulder adjacent the inner upper end thereof; means passed through the upper ends of said strips to regulate the diameter of the smaller end of the truncated cone; and a frame shaped to conform to the interior of the shade having means on the upper end thereof to support the shoulders on the strips of the shade covering.

1,677,661. CENTRAL LUBRICATING APPARATUS FOR STIFF LUBRICANTS. ALFRED SCHLOSSHAUER, Berlin, Germany. Filed Mar. 9, 1927, Serial No. 173,939, and in Germany Dec. 16, 1925. 1 Claim. (Cl. 184—33.)

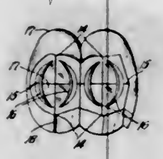
In a central lubricating apparatus for stiff lubricant in combination with a reservoir for stiff lubricant, a number of piston pumps, a driving mechanism, a cock

plug made in one piece with said driving mechanism and having a suction channel common to all piston cylinders, a suction head in said cock plug rotating with the same and connected with said suction channel, all the



perforations of said suction head being arranged on the sides of said suction head which projects into said reservoir so that the stiff lubricant is permanently sucked off from other points of the mass in said reservoir.

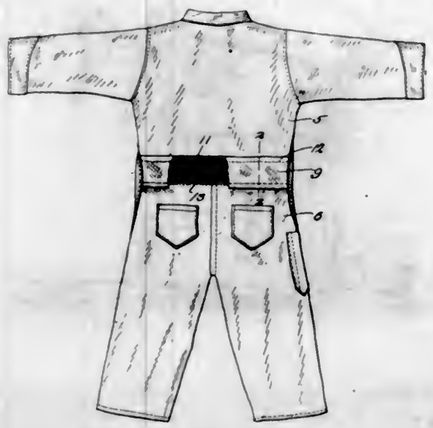
1,677,662. ARTIFICIAL TEETH. LAKE H. SPRINKLE, Brooklyn, N. Y. Filed Feb. 4, 1926. Serial No. 86,087. 3 Claims. (Cl. 32—9.)



1. In artificial teeth or facings, having therein elevations and depressions, sloping surfaces diverging from said elevations and extending to said depressions, the inclinations of said surfaces being in opposite directions to each other, and other sloping surfaces diverging from said elevations and extending to said depressions, the inclinations of said last mentioned surfaces being in directions substantially transversely to the inclinations of said first mentioned surfaces, and the inclinations of all of said surfaces being so disposed as to cause said teeth or facings, when the latter are moved in any direction to have their successive positions substantially parallel to each other.

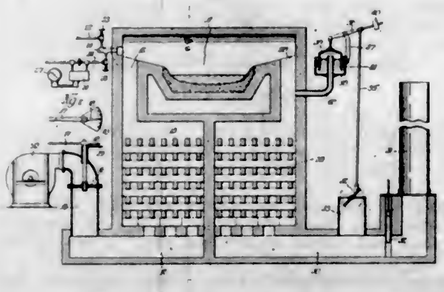
1,677,663. OVERALLS. MOSES E. ST. AMOUR, Faust, N. Y. Filed Mar. 10, 1926. Serial No. 93,679. 1 Claim. (Cl. 2—79.)

In a union garment, a body section and a nether section separated at the back thereof, a guard flap for covering the space between the body section and nether section, said guard flap embodying a length of cloth material folded upon itself defining outer and inner layers, a strip of elastic material having one edge folded outwardly and secured between the layers, said strip of flexible material and guard flap being secured to the body section, said strip of flexible material being secured along its lower edge to the nether section,



and said guard flap having its lower edge disposed an appreciable distance below the upper edge of the nether garment to which the lower edge of the elastic strip is secured to cover the strip of flexible material.

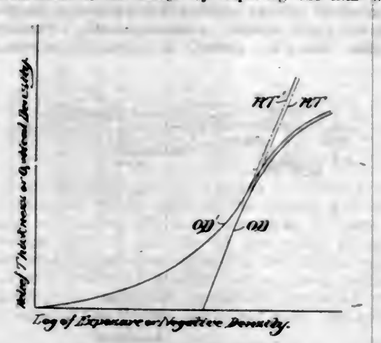
1,677,664. METHOD OF OPERATING OPEN-HEARTH FURNACES. ARTHUR L. STEVENS, Chicago, Ill., assignor to Arthur L. Stevens Corporation, Chicago, Ill., a Corporation of Illinois. Filed May 16, 1927. Serial No. 191,563. 6 Claims. (Cl. 266—33.)



1. The method of operating an open hearth furnace consisting in creating a neutral atmosphere in the furnace chamber, and automatically maintaining it at substantially atmospheric pressure.

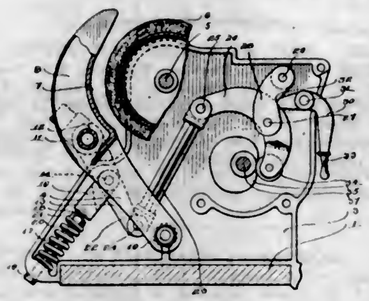
1,677,665. PHOTOGRAPHY. EASTMAN A. WEAVER, Brookline, Mass., assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston Mass., a Corporation of Maine. Filed Nov. 2, 1921. Serial No. 512,390. 56 Claims. (Cl. 95—5.)

1. The method of producing a photographic printing matrix comprising printing a film with light distributed to produce a latent image therein, altering the contrast gradations of the image by exposing the film with



correspondingly distributed light, and converting the altered latent image into a photographic printing matrix.

1,677,666. IRONING MACHINE. RANDOLPH V. WELLER, Rochester, N. Y. Filed Sept. 24, 1925. Serial No. 58,434. 17 Claims. (Cl. 68—9.)



2. An ironing machine comprising a rotary bed, an iron, a motor, a connection between the motor and the bed for turning the latter, means operated by the motor for effecting relative movement between the iron and the bed to bring the two into and out of cooperative engagement, and means operated by the motor for breaking the driving connection between the motor and the bed upon the separation of the iron and the bed, said means effecting the establishment of such driving connection after the iron engages the material on the bed but before the final compression between the iron and the bed.

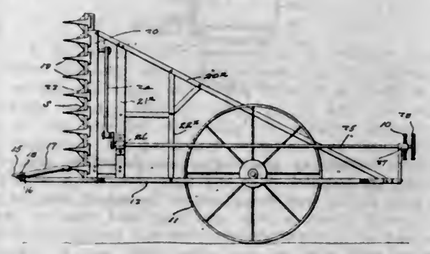
10. An ironing machine comprising a rotary bed, an iron pivotally mounted to move toward and from the bed, a member supported by the iron to turn about an axis to one side of the pivotal axis of the latter, two arms extending from said member one at each end of the iron, longitudinally movable spring pressed plungers to which said arms are pivoted, said plungers being guided in fixed parts of the machine, and means having connection with said turning member to move the iron toward and from the bed and swing said arms against the action of the spring pressed plungers.

16. An ironing machine comprising a frame, a rotary bed on the frame, an iron on the frame, two parallel shafts on the frame, a removable driving unit having a single shaft, a clutch for connecting one of said frame shafts with the single shaft when the two shafts are aligned, a gear on the single shaft, and means providing driving connection between the gear and the other shaft on the frame.

1,677,667. TREATMENT OF MAGNESIUM AND MAGNESIUM ALLOYS TO INHIBIT CORROSION. ARTHUR C. ZIMMERMAN, Dayton, Ohio. Filed Oct. 31, 1924. Serial No. 747,128. 5 Claims (Cl. 148—6.)

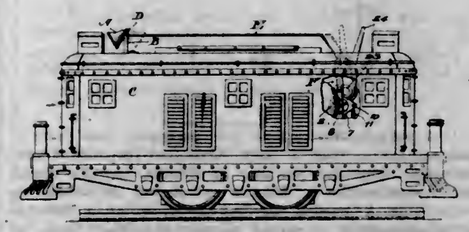
5. The method of treating magnesium and magnesium base alloys to inhibit corrosion which consists of treating the metal with a solution of phosphoric acid until a protective coating of magnesium phosphate is formed on the surface of the metal.

1,677,668. VERTICAL SICKLE DIVIDER FOR GRAIN-HARVESTING MACHINERY. WILLIAM A. BARBER, Washington Township, Carroll County, Ill. Filed Nov. 11, 1926. Serial No. 147,760. 1 Claim. (Cl. 46—316.)



In a grain harvester and in combination, a frame, a supporting wheel at one side of the frame, a horizontal cutting mechanism in front of the frame, a vertical cutting mechanism at one end of the first mentioned cutting mechanism and forwardly thereof and carried by an upright bar fixed with respect to the first named frame, means for operating the second named cutting mechanism, said second named cutting mechanism having forwardly directed fingers, a divider sill having its rear end fixed to the frame and terminating in front of and to one side of the first named cutting mechanism, a bracket fixed on the forward end of said sill and having a rearwardly directed arm spaced above the sill, a rigid tube connectd at one end to said arm of said bracket and extending upwardly and rearwardly from said arm and receiving in its rear end the lowermost finger of the second named cutting mechanism, and an upright supplemental frame connected with the upright bar of the second named cutting mechanism and the frame and arranged in rear of said upright bar and having a rearwardly and downwardly inclined top bar and also having intermediate upright bars and braces for the latter.

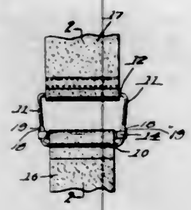
1,677,669. BELL-RINGING MEANS FOR TOY LOCOMOTIVES. HARRY S. BECKER, River Forest, Ill., assignor to American Flyer Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 17, 1928. Serial No. 247,447. 7 Claims. (Cl. 46—47.)



6. In a toy electric locomotive, the combination of a swinging mute bell mounted in a visible position on the locomotive and a ringing bell mounted in a con-

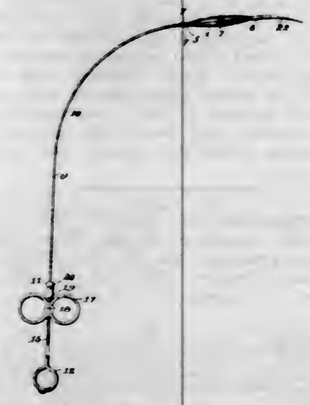
cealed position within the locomotive, and a lever having means connected therewith for simultaneously sounding the concealed bell and swinging the mute bell, and means for actuating said lever.

1,677,670. FASTENING LOOP. HERBERT A. AUSTIN, Worcester, Mass. Filed Mar. 25, 1926. Serial No. 97,411. 1 Claim. (Cl. 24—196.)



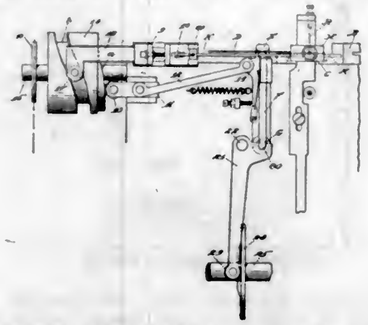
As an article of manufacture, a fastening loop of wire having parallel sides and ends that are diverging, the ends of the wire being located in one of said sides and spaced apart, a tube enclosing said ends of the wire and of a length shorter than the normal distance between said ends at the wider side, and a sliding clamping bar parallel with said sides and having passages at its ends for the ends of the wire frame, said passages engaging the ends of the frame frictionally in all positions of the clamping bar, for the purpose described, said wire being flattened to provide opposite projections to hold the clamping bar in clamping position.

1,677,671. URETERAL STONE EXTRACTOR AND DILATOR. WILFORD A. COUNCILL, Baltimore, Md. Filed July 2, 1926. Serial No. 120,177. 6 Claims. (Cl. 128—328.)



1. A surgical instrument for entrapping and extracting substances from a body, having an expansible portion consisting of a plurality of strands, operable means for expanding the portion for entrapping the substance, comprising a tension device consisting of a suitable gripping member, a pulling element extending from the gripping member through the expansible portion, one end of the pulling element being attached to the gripping member and the other end to the expansible portion.

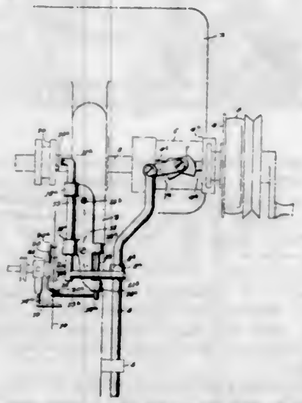
1,677,672. BRUSH-MAKING MACHINE. WILLIAM S. ELLIOT and WILLIAM NOBLE, Northampton, Mass., assignors to Pro-phy-lac-tic Brush Company, Northampton, Mass., a Corporation of Massachusetts. Filed Feb. 24, 1925. Serial No. 11,090. 2 Claims. (Cl. 300—5.)



1. A brush making machine comprising a reciprocating slide, a pick carried by said slide for separating a tuft of bristles, and a rotary cam coacting directly with said slide for operating the same.

2. A brush making machine comprising a rotary cam, a gripper for feeding an anchor forming metal strip, and a slide connected to said gripper and operated by said cam.

1,677,673. STOP MECHANISM FOR SEWING MACHINES. ROY A. GRAMSE, Paducah, Ky., assignor to Southern Textile Machinery Co., Paducah, Ky., a Corporation of Kentucky. Continuation of application Serial No. 731,295, filed Aug. 11, 1924. This application filed June 20, 1927. Serial No. 199,967. 18 Claims. (Cl. 112—219.)

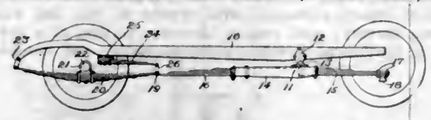


1. In combination with the drive and drive control mechanism of a sewing machine, of stop motion mechanism including a thread control knot catcher and trip device, said trip device being operable by said knot catcher and upon depletion of the thread, said trip device being normally supported by the thread and movable to operative position by gravity.

1,677,674. ART OF PRODUCING PERMANENT MAGNETS. LESLIE E. HOWARD and ALLEN D. POTTS, Lockport, N. Y., assignors to Simonds Saw and Steel Company, Fitchburg, Mass., a Corporation of Massachusetts. Filed Oct. 9, 1926. Serial No. 140,671. 3 Claims. (Cl. 175—21.)

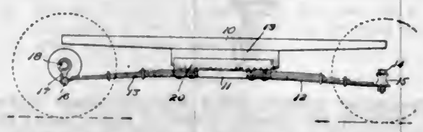
3. A permanent magnet comprising a tungsten steel having a vanadium content of .05 to 1.00%, and characterized by a substantially permanent magnetization.

1,677,675. SPRING SUSPENSION FOR VEHICLES. HENRY WEBB HYDE, North Cohasset, Mass., assignor to Hyde Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed May 28, 1923. Serial No. 641,933. 12 Claims. (Cl. 280—104.)



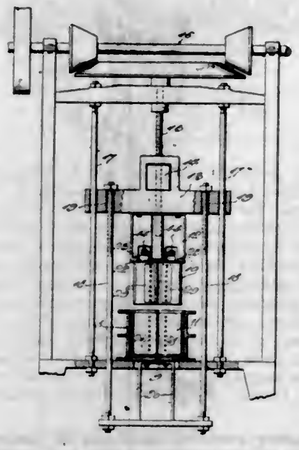
1. A spring suspension for vehicles including a spring reach connected to an axle of the vehicle and having a freely rocking connection intermediate its ends with the vehicle body at one side of the center of gravity thereof, said spring reach extending beyond the opposite side of said center of gravity, and a spring fulcrumed intermediate its ends and operatively connected at opposite sides of its fulcrum with said body and reach.

1,677,676. SPRING SUSPENSION FOR VEHICLES. HENRY WEBB HYDE, North Cohasset, Mass., assignor to Hyde Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 17, 1923. Serial No. 657,990. 3 Claims. (Cl. 280—104.)



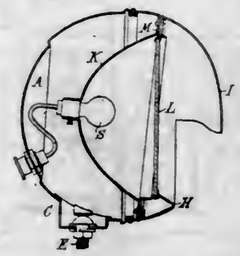
1. A spring suspension for motor vehicles including a pair of spring reaches each of which comprises a substantially rigid beam having spring extensions rigidly connected thereto and connected respectively with the front and rear axles of the vehicle, and rockers secured to the body and having rolling engagement upon said beams.

1,677,677. SAGGAR-MAKING MACHINE. DEWITT DILWORTH IRWIN, East Liverpool, Ohio, assignor of one-half to Edwin M. Knowles, Newell, W. Va. Filed July 25, 1927. Serial No. 208,257. 10 Claims. (Cl. 25—27.)



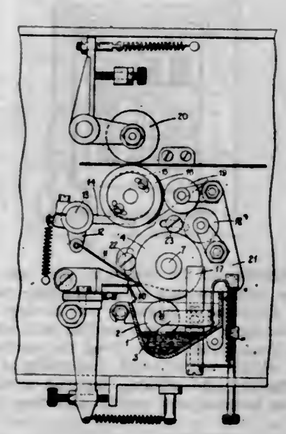
1. A saggar-forming plunger of hollow form provided with openings from its inner to its outer periphery, saggar punches slidably received in said openings, and operating means for said punches embodying punch-projection cams connected for rotation in unison.

1,677,678. HEADLIGHT. ASHER MAURER, Newark, N. J. Filed May 29, 1928. Serial No. 281,521. 17 Claims. (Cl. 240—41.)



1. A vehicle lamp, comprising a reflector oval in front elevation and developed in shape by pressing inwardly the upper and lower parts of a modified parabolic circular reflector from points near its base to its rim, thereby shortening its vertical diameter and elongating its horizontal diameter and removing the parts of the upper and lower sections of the edge which project beyond the vertical plane of the axial horizontal section.

1,677,679. PRINTING APPARATUS FOR USE WITH CIGARETTE MACHINERY. WALTER EVERETT MOLINS, Deptford, London, England. Filed Apr. 18, 1927, Serial No. 184,810, and in Great Britain May 19, 1926. 6 Claims. (Cl. 101—350.)

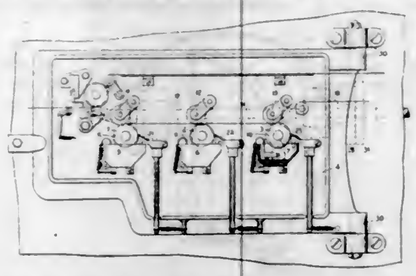


1. In a printing device, the combination with a furnishing roller adapted to receive ink, of a doctor blade arranged to control the quantity of ink retained on said roller, and means for scraping the surface of said doctor blade to remove surplus ink.

1,677,680. CIGARETTE MACHINERY. WALTER EVERETT MOLINS, Deptford, London, England. Filed Apr. 18, 1927, Serial No. 184,811, and in Great Britain May 17, 1926. 4 Claims. (Cl. 101—57.)

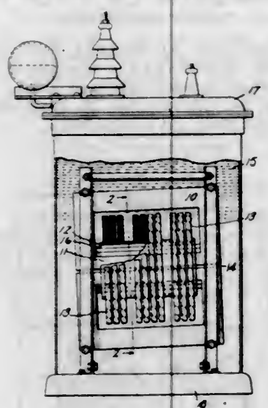
1. A printing mechanism for use on a cigarette making machine of the continuous rod type which comprises a frame (arranged to accommodate the printing units) adapted to be swingingly mounted to permit the movement of the same relatively to the frame of the machine,

and means operable solely by the movement of the frame to effect both the operative connection and disconnection of the printing units with and from the drive



of the machine and ensure that the printing units are always connected in correct phase relationship with the rod cutting mechanism.

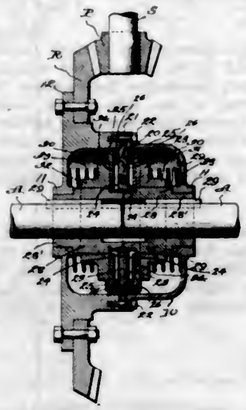
1,677,681. TRANSFORMER. VINCENT M. MONTSINGER, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 25, 1927. Serial No. 228,644. 3 Claims. (Cl. 175—361.)



1. A transformer of the horizontal core type immersed in a cooling liquid within a surrounding casing, said transformer including a magnetic core having a winding leg, an insulating cylinder surrounding said winding leg, there being longitudinal space along the surface of said winding leg within said cylinder, and windings surrounding said cylinder, said winding leg and cylinder being longitudinally inclined at a small angle from horizontal.

1,677,682. DIFFERENTIAL MECHANISM. ROWLEY K. ORTT and ELWOOD K. ORTT, Dixon, Ill., assignors to The Clipper Manufacturing Company, Dixon, Ill., a Corporation of Illinois. Filed Oct. 28, 1924. Serial No. 746,309. 3 Claims. (Cl. 74—7.)

1. A differential comprising a rotary driven housing, alined shaft sections rotatably mounted in the ends of and extending axially into said housing, a driving disk carried and rotated by the housing and formed at both vertical side faces with similar annular series of spaced radial clutch teeth, two independent driven clutch sleeves at opposite sides of said disk and having clutch plates formed with clutch teeth normally operatively engaging and driven by said teeth of the disk, each shaft section provided with and normally driven by one of said sleeves rotating therewith and slidable longitudinally thereof; expansion springs to independently hold said sleeves in normal operative driven relation with said disk; two cam rings, one for each driven clutch sleeve, said rings arranged at the opposite vertical faces of said disk surrounding the annular series of teeth and bearing on the outer ends of the teeth and secured together and having limited rotary movement with respect to the disk and driven thereby; each ring at its outer vertical face having a continuous annular series of radial cam notches



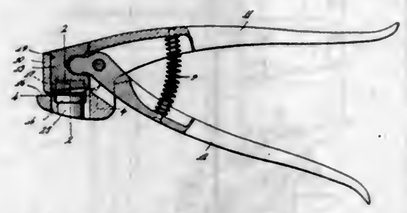
approximately radially alined with the spaces between the teeth of the annular series of clutch teeth; each clutch plate having radially projecting cam portions to ride on said cam rings and cooperate with the cam notches thereof to automatically slide one or the other clutch sleeve outwardly against the pressure of its spring to disengage said sleeve from the clutch teeth of the driving disk, when the shaft section of said sleeve rotates faster than the shaft section of the other sleeve.

1,677,683. HOSIERY PROTECTOR. GEORGE W. PARRY, Philadelphia, Pa.; Rose Parry administratrix of said George W. Parry, deceased. Filed Mar. 4, 1927. Serial No. 172,892. 5 Claims. (Cl. 36—2.)



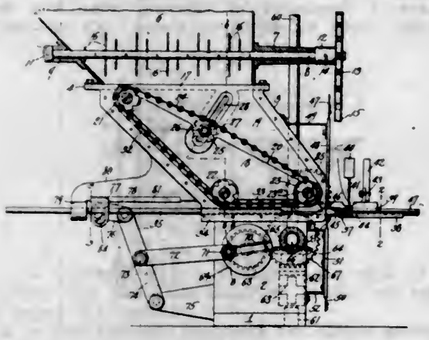
1. A hosiery protector comprising in combination with a sandal, a relatively thin rubber body with its lower portion permanently attached to the rear of the sandal and adapted to conform to the leg of the wearer, provided with forward opposed edges and arch edges to fit over the instep of the foot, and fastening means connecting the opposed edges of the protector.

1,677,684. TOOL FOR CUTTING BOX STRAPPING AND THE LIKE. STUART W. PARSONS, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed Nov. 17, 1927. Serial No. 233,862. 3 Claims. (Cl. 164—81.)



1. A tool for cutting box strapping and the like comprising a head having a strap receiving slot, a handel on which said head is carried, a punch mounted for reciprocation in said head and having a semi-circular cutting or punching edge in its lower end, a handle for operating said punch, a die on said head below said slot and comprising a cylindrical disk having flat parallel end surfaces each provided with a continuous circular cutting edge, and means for adjustably and removably securing said die in place whereby said disk may be angularly adjustable or reversible end for end to bring new cutting edges thereon into play.

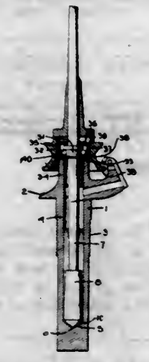
1,677,685. POULTICE-MAKING MACHINE. ROBERT H. PLASS, Upper Montclair, N. J., assignor to Poloris Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 5, 1927. Serial No. 181,128. 12 Claims. (Cl. 112—2.)



5. In a machine of the character described, the combination with a sewing machine for sewing together the edges of wrapper-forming material supplied thereto, of means for supplying the wrapper-forming material to said sewing machine, a tubular housing arranged to discharge filler material to the continuous tubular wrapper formed by said sewing machine, a plunger reciprocable in said tubular housing for compressing the filler material within said wrapper, said tubular housing being provided with an inlet for filler material, and means for supplying filler material to said inlet, said means being provided with a contracted conveyor channel discharging into said inlet and including a conveyor operating in said channel.

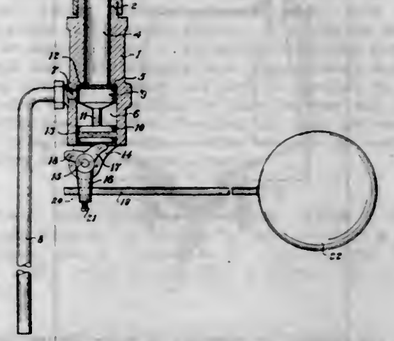
1,677,686. BALL-BEARING-SPINDLE CONSTRUCTION. THEODORE M. PRUDDEN, Grafton, Mass. Filed Jan. 19, 1923. Serial No. 613,731. 8 Claims. (Cl. 308—228.)

6. A ball bearing spindle construction comprising a bolster case, a spindle blade provided with an inner ball race member, an outer ball race member removably mounted in the upper end of the bolster case and cooperating with the inner race member to resist lateral and downward forces acting upon the spindle and a cover permanently attached to said outer race member and



overlying the inner race member retaining the parts of the bearing in their relative positions and operable to permit removal of the spindle and race members as a unitary construction.

1,677,687. FLOAT VALVE. DUDLEY REED, Canton, Ohio. Filed Mar. 29, 1927. Serial No. 179,262. 2 Claims. (Cl. 137—104.)

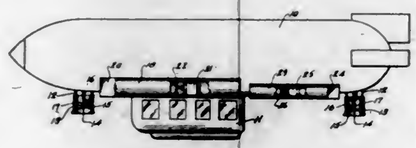


1. A valve of the character described including a vertically disposed casing having a valve seat intermediate its ends, an inlet pipe communicating with the upper end of the casing, an outlet pipe communicating with the casing just below the valve seat, a vertically movable valve within the casing, a pivot below the valve and offset from the axis of the valve, a lever below the valve on the pivot for normally holding the valve in raised position against the valve seat, a stop arm upon the lever for limiting the downward movement of the valve, said lever having a depending arm radially disposed from the pivot, and a rod carrying a float ball mounted on the depending arm at right angles thereto.

1,677,688. AIRCRAFT. ALPHY REES, Coalinga, Calif., assignor of one-third to Edward A. Webb, Coalinga, Calif. Filed Mar. 22, 1927. Serial No. 177,304. 1 Claim. (Cl. 244—7.)

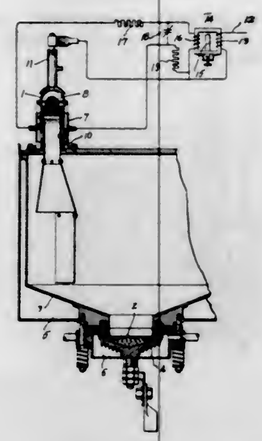
In an aircraft of the character described, the combination with a lighter than air body, a pair of longitudinal

tubular housings secured adjacent the forward portion of the body in opposed positions on the sides thereof, a second pair of housings secured adjacent the rear end of the body relatively decreased diameter, propelling motors secured in the intermediate portions of the housings, ver-



tical propellers driven by the said motors, vertical tubular housings secured to the forward and rear ends of the body, motors mounted in the said vertical housings, and horizontal propellers driven by the said motors to control the ascension and descension of the said aircraft.

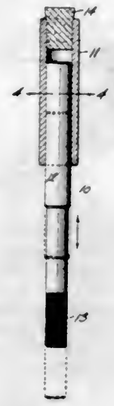
1,677,689. VAPOR ELECTRIC DEVICE. LEWIS T. ROBINSON and CAMILLE A. SABBAH, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Nov. 19, 1925. Serial No. 70,201. 9 Claims. (Cl. 175—354.)



1. The method of operating a vapor electric device comprising a control electrode interposed between an anode and an anode shield, which comprises changing the polarity of said shield and anode, and thereafter changing the polarity of said control electrode.

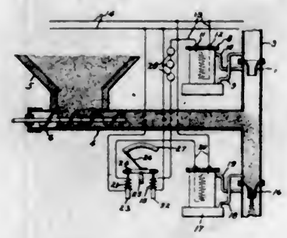
1,677,690. DEVICE FOR TESTING LUBRICATING OILS. ADOLPH A. SCHAEFER, Buffalo, N. Y., assignor to Frontier Manufacturing Company, North Tonawanda, N. Y. Filed Dec. 12, 1921. Serial No. 521,688. 2 Claims. (Cl. 265—11.)

1. A portable, hand operated device for testing and comparing the properties of oils and various lubricants, comprising a cylindrical tube having a smooth bore, a piston having a smooth surface closely fitting the bore of the tube and freely slidable endwise into and out of the bore to various extents from one end thereof, whereby when a coating of the sample of the lubricant to be tested is interposed between the contacting, movable surfaces of the piston and tube bore, the opposition offered to the relative movement of the piston and tube will serve as a relative indication of the quality of the lubricant, and means by which the other end of the tube may be closed or opened to atmosphere, as de-



sired, whereby the relative sealing quality of the lubricant will be indicated by the resistance offered to the piston by the air trapped in the closed end of the tube.

1,677,691. MEANS FOR MEASURING A SUBSTANCE CARRIED IN SUSPENSION BY A SECOND SUBSTANCE. ARTHUR R. SMITH, Schenectady, N. Y., assignor, by mesne assignments, to Bailey Meter Company, a Corporation of Delaware. Filed Feb. 20, 1925. Serial No. 10,706. 7 Claims. (Cl. 73—167.)

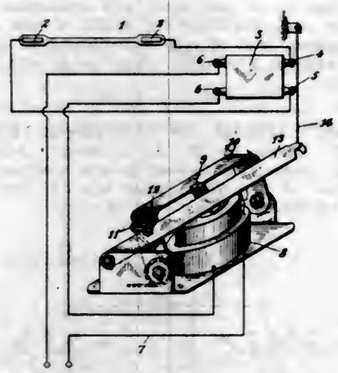


1. The combination with a conduit through which a fluid flows and to which at a point in the conduit a substance is fed into the fluid, of means for measuring the amount of the substance per unit of time fed into the conduit, said means comprising a pressure difference creating device which creates a pressure difference which bears a definite relation to the rate of flow of the fluid, a pressure difference creating device which creates a pressure difference which bears a definite relation to the rate of flow of the mixture, and measuring means responsive to the difference between the two pressure differences created.

1,677,692. ELECTRICAL CUT-OUT. JOHN FRASER STOKES, New York, N. Y., assignor to Rainbow Light, Inc., a Corporation of New York. Filed July 9, 1927. Serial No. 204,481. 7 Claims. (Cl. 175—294.)

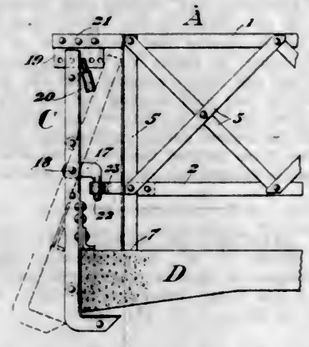
1. An electric cut-out designed for use in connection with transformers and to prevent the continuation of open circuit secondary voltage conditions, comprising in

combination, a transformer, a primary circuit, a cut-out switch in the primary circuit normally closed, and means whereby said switch will operate to break the



primary circuit under the effect of continued open circuit voltage conditions in the secondary, substantially as set forth.

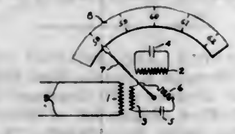
1,677,693. BARRICADE. RUSSELL A. TRUFANT, Middleboro, Mass. Filed June 3, 1925. Serial No. 34,529. 7 Claims. (Cl. 256—1.)



1. A barricade adapted to engage the edges of a concrete road slab, and means for locking the same to prevent its removal.

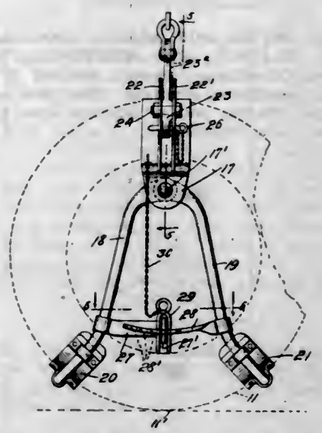
3. A road barricade comprising two upright portions which engage opposite sides of the roadway slab, a central portion connecting said uprights to close the road, and means for locking the parts when in place.

1,677,694. FREQUENCY-RESPONSIVE INSTRUMENT. FRANCIS B. VOGDES, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 29, 1922, Serial No. 557,485. Renewed Mar. 16, 1928. 4 Claims. (Cl. 172—245.)



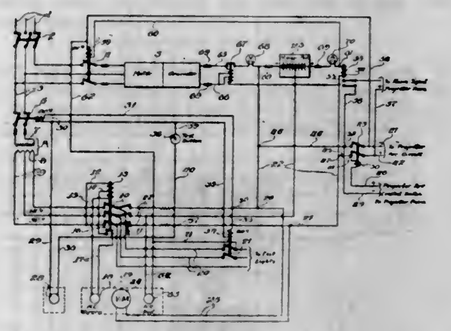
1. An electrical instrument comprising a stator element and a rotor element, a pair of angularly disposed windings on one of said elements inductively related to a winding on said other element, one winding of said pair comprising a primary coil and the other windings of the instrument comprising a tuned secondary system, the tuning frequency of which changes with different positions of the rotor elements.

1,677,695. AUTOMOBILE HANDLING APPARATUS. THEODORE VOGT, Fairview, N. J. Filed Aug. 4, 1926. Serial No. 126,991. 9 Claims. (Cl. 294—74.)



1. An automobile handling apparatus embodying, in combination, a series of automobile clamps for engaging the wheels of automobiles, each comprising a base member having pivotally mounted thereon rigid legs having free ends movable pivotally to engage the wheel tire at opposite sides of the ground-contacting portion thereof, and a top-engaging lever also pivotally mounted on said base member and movable pivotally to engage and clamp an automobile wheel between said top-engaging lever and said diverging side legs, and means for locking said pivotally movable legs and top-engaging members in wheel-clamping position.

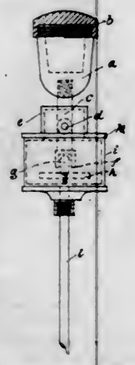
1,677,696. EXIT-LIGHTING SYSTEM. RALPH T. WILLIAMS, Chicago, Ill., assignor to Roth Brothers & Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 14, 1927. Serial No. 161,227. 2 Claims. (Cl. 171—97.)



1. In an electric light and power system, a lamp circuit, a normally open switch in said circuit, a main circuit, a normally open switch in said main circuit, means controlled by current from said main circuit for connecting said main circuit with said lamp circuit, an

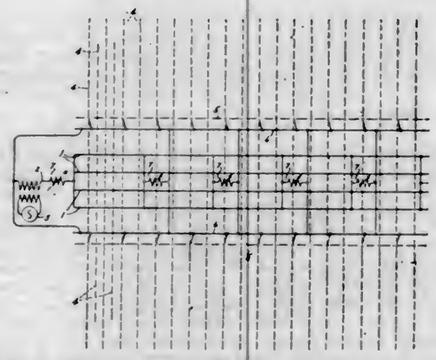
auxiliary circuit, automatic means for connecting said auxiliary circuit with said lamp circuit upon failure of said main circuit to supply current, means controlled by current from said auxiliary circuit for closing said main circuit switch and said lamp circuit switch, a storage battery for supplying current to said auxiliary circuit, a motor-generator set for charging said battery, an arc circuit connected to said battery, and means operated by current passing through said arc circuit for connecting said motor-generator set to said main circuit.

1,677,697. DEVICE FOR MIXING AMALGAM FOR TOOTH FILLINGS AND STOPPINGS. VALDEMAR WILMING, Copenhagen, Denmark, assignor to Günnar Koefoed, Copenhagen, Denmark. Filed Mar. 16, 1927, Serial No. 175,881, and in Germany Mar. 17, 1926. 2 Claims. (Cl. 259—75.)



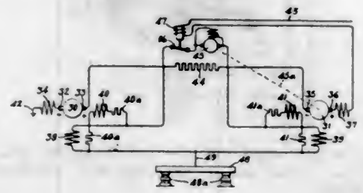
1. In a device for mixing amalgam for tooth fillings and stoppings, a pot for receiving the amalgam components, a rod integral with the said pot and carrying a transverse shaft swingingly journaled in a support, a body integral with the end of the said rod and provided with a longitudinal groove, and a pin adapted to rotate in the said groove with some freedom of movement and thereby rocking the pot in jerks.

1,677,698. ANTENNA. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 10, 1922. Serial No. 550,946. 3 Claims. (Cl. 250—33.)



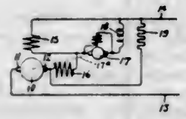
1. A radiating antenna system comprising a long horizontal aerial, a network beneath said aerial comprising a plurality of buried wires extending in directions at right angles to the direction of the aerial for a distance on each side of the area covered by said aerial substantially equal to at least one and one-half times the effective height of the aerial, bus conductors connecting all of said wires, and connections from a plurality of points along the length of said aerial to said network, each of said connections from the aerial being made to a plurality of points in said bus conductors.

1,677,699. SYSTEM OF ELECTRICAL DISTRIBUTION. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 13, 1927. Serial No. 191,252. 8 Claims. (Cl. 171—228.)



1. In a direct current system of electrical distribution a dynamo-electric machine having an armature and an exciting field winding, said dynamo-electric machine being provided with a commutator and brushes, means for energizing said exciting field winding, means responsive to an increase in the current flow from said armature for decreasing the energization of said field winding in order to reduce the voltage generated by said armature, and means responsive to the decrease in energization of said field winding for inducing an electromotive force in that portion of said armature short circuited at the brushes during commutation opposing the electromotive force induced therein at the same time by the decrease in energization of said field winding.

1,677,700. SYSTEM OF ELECTRICAL DISTRIBUTION. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 13, 1927. Serial No. 191,256. 8 Claims. (Cl. 171—228.)

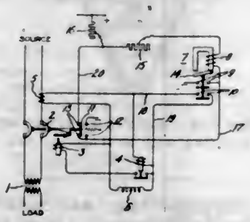


1. In a direct current system of electrical distribution, a dynamo-electric machine having an armature with brushes bearing thereon and a field excitation system, means for energizing said excitation system, and means responsive to a sudden increase in load on said system for deenergizing said excitation system and for causing an increased flow of current in said armature during the transient in which said excitation system is deenergized in order to reduce sparking at said brushes.

1,677,701. GRANULE AND METHOD OF PRODUCING SAME. WILLIAM H. ALTON, New York, N. Y., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 9, 1927. Serial No. 239,001. 12 Claims (Cl. 25—156.)

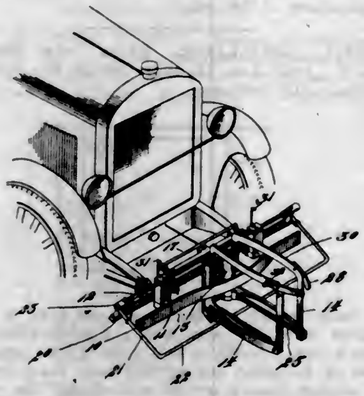
1. The method of producing granules which comprises crushing soft non-vitreous rocks having a fibrous or laminated structure, separating particles of proper granule size from the crushed material and subjecting such granules to a vitrifying treatment to reduce the absorptive properties of the granules.

1,677,702. CONTROL OF ELECTRIC CIRCUITS. HERMAN BANY, Scotia, and DANIEL C. HOFFMANN, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Aug. 12, 1927. Serial No. 212,586. 6 Claims. (Cl. 175—294.)



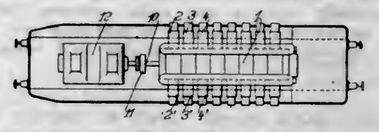
1. In combination with an electric circuit, a circuit breaker therefor, and means including a relay for effecting the opening of the circuit breaker on the occurrence of abnormal circuit conditions, means for rendering said relay temporarily inoperative on the closing of the circuit breaker comprising an electromagnet having a winding arranged to be energized on the opening of the circuit breaker and normally open contacts in the circuit of the winding and in a circuit across the winding of the relay arranged to be closed on the energization of the electromagnet winding, and means arranged on the closing of the circuit breaker to short circuit the electromagnet winding whereby to effect a time delay in the opening of said contacts.

1,677,703. SAFETY DEVICE FOR MOTOR VEHICLES. CHARLES L. BEAUREGARD, Providence, R. I. Filed Feb. 16, 1927. Serial No. 168,580. 7 Claims (Cl. 293—16.)



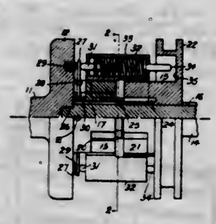
4. A safety device for a motor vehicle comprising a pair of arc-shaped grappling members, means for mounting said members to swing into position to grab a person, coiled springs extending as a cord across the arc of said members to conform to the shape of the person grabbed and cushion the force of engagement with the members.

1,677,704. OIL-MOTOR-DRIVEN LOCOMOTIVE. JACOB BUCHLI, Winterthur, Switzerland. Filed Aug. 27, 1926. Serial No. 131,952, and in Germany Oct. 26, 1925. 2 Claims. (Cl. 105—35.)



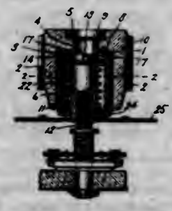
1. An internal combustion engine for Diesel-locomotives of large output having a plurality of cylinders arranged on both sides of the longitudinal centre plane of the locomotive, each pair of cylinders arranged opposite each other having their axes in the same plane extending at right angles to the longitudinal axis of the locomotive, a crank-shaft extending in the longitudinal direction of the locomotive and having a plurality of crank pins, and connecting rods for transmitting the power from every cylinder to said crank pins, said connecting rods having at their outer ends segment shaped bearing bushes, and coupling members embracing the bearing segments of the connecting rods of every two opposed cylinders which cooperate with the same crank pin.

1,677,705. POSITIVE CLUTCH. WILLIAM THOMAS CARLING, Guildford, England. Filed June 20, 1927, Serial No. 200,241, and in Great Britain June 18, 1926. 12 Claims. (Cl. 192—67.)



1. In a positive clutch, comprising driving and driven members, and means for sliding one of said members into engagement with the other of said members, a clutch controlling element capable of limited angular displacement relative to the slidable member, said controlling element adapted in one position of displacement to permit engagement of said members together, and frictional means for producing said angular displacement, said sliding means determining the operation of said frictional means.

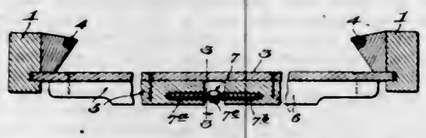
1,677,706. ROTARY SWITCH HANDLE. ARTHUR W. CLAUDER, Bridgeport, Conn., assignor to General Electric Company, a Corporation of New York. Filed Nov. 1, 1924. Serial No. 747,396. 3 Claims. (Cl. 200—172.)



1. A handle for rotary switches comprising a main part chambered at one end, a cylindrical metal thimble secured in the chamber of said main part and provided

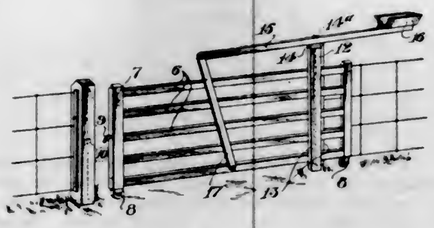
with internal ribs or shoulders, a combined stop and guide disk freely engaging said ribs or shoulders, a switch engaging nut assembled within said thimble and axially guided therein by said guide and stop disk and in which it is journaled, a ratchet secured to said nut and normally engaging said guide and stop disk, a spring forcing said nut inwardly of said main part, and means in said thimble for retaining said spring in place.

1,677,707. GAME BOARD. PERCY R. COMPTON, Portland, Me., assignor to The E. T. Burrowes Company, Portland, Me., a Corporation of Maine. Filed Dec. 3, 1927. Serial No. 237,490. 6 Claims. (Cl. 273—6.)



1. In a game board, a bed, a cleat comprising sections secured to the bed at the under side thereof in end to end spaced relation, and means extending between the inner ends of said cleat sections and connecting the same together, said means being adjustable to adjust the cleat sections to true up the bed.

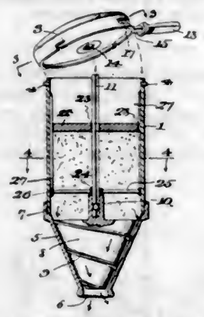
1,677,708. GATE. BENJAMIN W. COOK, Midland, Mich. Filed Apr. 26, 1927. Serial No. 186,679. 1 Claim. (Cl. 39—76.)



A gate structure including a vertically slotted post with an upstanding pin in the top thereof; a second post having a lock receiving recess; a gate member mounted for longitudinal sliding movement through the first mentioned post and horizontal swinging movement therein in an arc up to ninety degrees; a gate elevating lever loosely mounted on said pin; a depending lever pivoted at its upper end to one end of the first mentioned lever and at its lower end to the lowermost edge of the gate member at the center thereof whereby said gate member will be raised as it slides back in the first mentioned post to disengage the gate member from the second post and disengage the latch member carried thereby from the said lock receiving recess in the said second post; casters carried by said gate member at the lower corners thereof to support the weight of said gate member when resting on the ground; and a weight on the outer portion of said gate elevating lever.

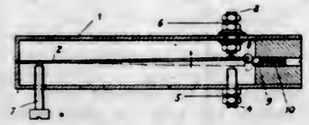
1,677,709. SOAP DISPENSER. WALLACE J. COUSINS, Chicago, Ill. Filed Mar. 25, 1924. Serial No. 701,783. 4 Claims. (Cl. 221—61.)

1. A dispensing container comprising a body portion, a delivery portion connected thereto, a rotatably feeding device in the delivery portion, means for giving said device a step-by-step rotation, means for limiting the extent of said rotation, and a weight upon the material



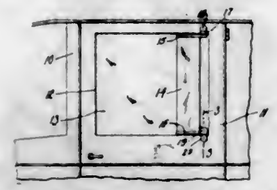
in the container and connected to rotate with the screw, and scrapers rotating with said device and engaging said weight.

1,677,710. TEMPERATURE REGULATOR. ALFRED DÄNIKER, Zurich, Switzerland. Filed Feb. 18, 1927, Serial No. 169,333, and in Germany Feb. 26, 1926. 2 Claims. (Cl. 200—138.)



1. In a temperature regulator for electrically heated devices the combination with a casing, two electric contacts mounted in the casing substantially opposite one another and one of which is insulated from the casing, a thermostatic strip in the casing and means for adjusting the tension of said strip, said strip arranged between the contacts; of an anti-friction member mounted on one end of the strip and an anti-friction member mounted in the casing and cooperating with the former member to produce rolling engagement during a snap action of the strip from one contact to the other when the strip is heated, and means to provide relative yielding of one member with respect to the other during the movement of the strip.

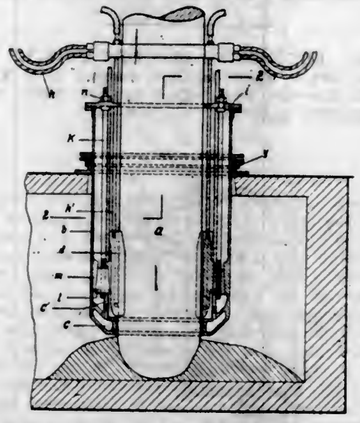
1,677,711. VENTILATOR. FRANK DELY, New York, N. Y. Filed Aug. 11, 1927. Serial No. 212,257. 1 Claim. (Cl. 296—44.)



A motor vehicle comprising a closed body, a door associated with said body having a window opening, a window pane slidable in said opening, two brackets secured to the outer face of said door above and below the window opening therein and adjacent the rear edge of said opening, the lower one of said brackets having a cylindrical extension within said window opening, a horizontal channel member having a vertical pivot pin in alignment with said cylindrical extension and rotatable on said upper bracket, a second horizontal channel member provided with a bearing member rotatable on the cylindrical extension of said lower bracket, a vertical bolt connecting said bearing member and said lower

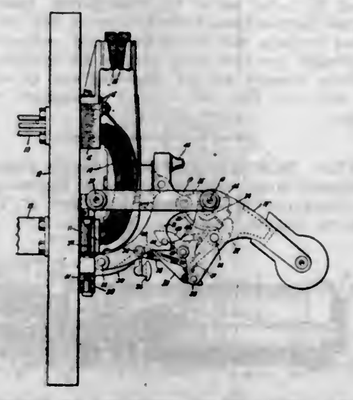
bracket, said bolt being in alignment with the pivot pin on said first-mentioned channel member, a panel engaging said two channel members, the upper face of said cylindrical extension being provided with a plurality of recesses arranged on a circle, a ball in each recess, a ball retaining member in said bearing member fixed thereto so as to rotate with the same but permitted to move in the direction of the longitudinal axis of said bolt, said ball retaining member being provided with recesses also arranged on a circle and in which said balls are adapted to be seated, and a spring in said bearing member for forcing said ball retaining member into engagement with said balls, the number of recesses in said ball retaining member exceeding those in said cylindrical extension.

1,677,712. ELECTRODE HOLDER. JACOB DION, Bitterfeld, Germany, assignor to the Firm; I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Nov. 6, 1926, Serial No. 146,726, and in Germany Dec. 28, 1925. 6 Claims. (Cl. 266—1.5.)



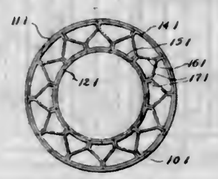
1. An electrode holder for closed electric furnaces comprising a plurality of clamps adapted to be fastened and released from without while the clamps are placed inside the furnace, and a jacket enclosing the constructional parts of the holder.

1,677,713. ELECTRIC SWITCH. HARRIS D. DUNTON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 28, 1926. Serial No. 112,401. 18 Claims. (Cl. 200—89.)



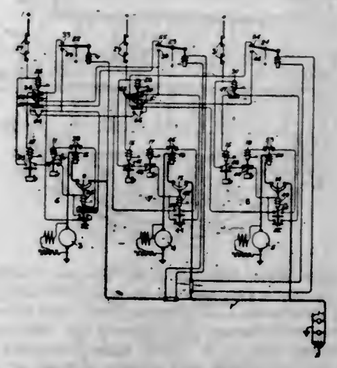
1. A movable switch member, an operating member, and a link connecting the members, said link being slotted and pivoted through the slot to one of the members, the slot being so shaped that the path of movement of the link pivot relatively to the link has a variable radius of curvature whereby to permit a change in the distance between the connections of the link to the respective members.

1,677,714. TUBULAR STRUCTURE. HURXTHAL F. FREASE, Canton, Ohio. Filed Dec. 29, 1924. Serial No. 758,662. 8 Claims. (Cl. 189—34.)



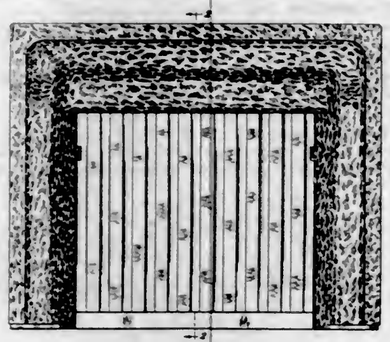
1. A main structural member adapted for resisting all types of loading, and including a central tube and a plurality of longitudinally extending and circumferentially connected tubular members abutting each other and the central tube.

1,677,715. AUTOMATIC SWITCHING SYSTEM. WILLIAM N. GITTINGS, Springfield, Pa., assignor to General Electric Company, a Corporation of New York. Filed Dec. 23, 1927. Serial No. 242,233. 7 Claims. (Cl. 171—118.)



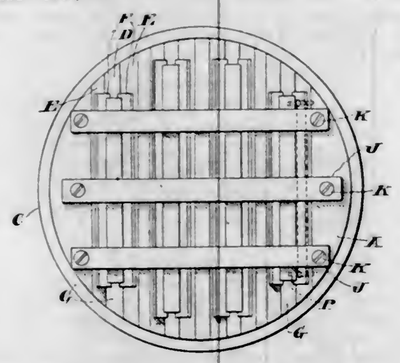
1. In combination, an electric circuit, a plurality of sources of current for supplying current to said electric circuit, switching means associated with each source for connecting it to said electric circuit, a main control circuit associated with each switching means, a time relay associated with each control circuit for effecting the energization thereof, a control device normally adapted to control the energization of one of said time relays so as to effect the energization of its associated control circuit, and means associated with the source with which said one of said time relays is associated and responsive to predetermined conditions of the associated source for removing said one of said time relays from the control of said control device and placing another of said time relays under the control of said control device.

1,677,716. METHOD OF MAKING ANTIQUE SURFACES. RAYMOND J. GREENE, Sebring, Ohio, assignor to The Gem Clay Forming Company, Sebring, Ohio, a Corporation of Ohio. Filed Mar. 21, 1927. Serial No. 176,972. 3 Claims. (Cl. 25—156.)



1. The ornamenting process which consists in forming an article of clay mixed with magnesium silicate and the like, applying a slip containing an oxide to the surface of the article, and firing the article whereby the oxide combines with the magnesium silicate to eat into the surface of the clay article.

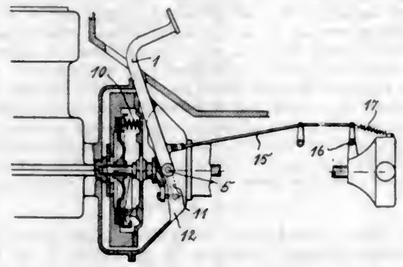
1,677,717. PLATE VALVE. LESLIE R. HUFF, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 11, 1926. Serial No. 154,224. 4 Claims. (Cl. 251—119.)



1. A plate valve comprising a valve seat having ribs forming passage-ways, grooves in said valve seat having diverging sides forming seating surfaces, rigid valve plates cooperating with the seating surfaces for controlling the passage-ways, said valve plates being supported by the bottoms of the grooves, and springs secured at one end to the ribs adjacent the inlet openings of the passage-way and at their other ends to the valve plates for holding the valve plates on the seating surfaces.

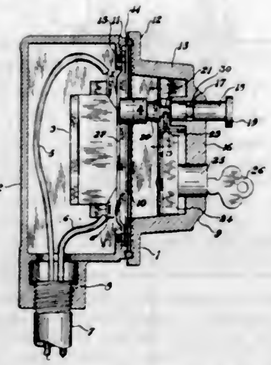
1,677,718. DEVICE FOR ACTUATING THE COUPLING AND THE BRAKE IN AUTOMOBILES. VICTOR JESSEN, Copenhagen, Denmark. Filed Nov. 26, 1926. Serial No. 150,972. 3 Claims. (Cl. 192—13.)

2. In devices for actuating the coupling and the brake in automobiles, the combination by means for connecting the pedalarm of the motor-coupling with the brake-bar, and of a coupling shaft, with a claw-coupling, one part of which being connected with the said pedalarm and lodged on a fixed muff, having a threaded part and surrounding the said coupling-shaft, while the other part of the said claw-coupling having a threaded inner portion



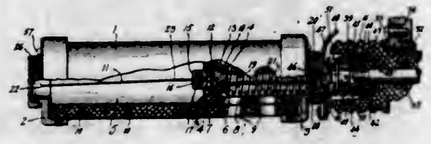
surrounds the said muff, and is adapted to be displaced in longitudinal direction, when the said coupling shaft is turned substantially as set forth for the purpose specified.

1,677,719. KEY-LOCKING ELECTRIC SWITCH. MORGAN J. LEWIS, Massillon, Ohio, assignor to E. F. Duquette, Hartville, Ohio. Filed Jan. 26, 1927. Serial No. 163,670. 3 Claims. (Cl. 200—44.)



1. A key locking electric switch including a base housing, a push button operated electric switch mounted in the base housing, a cover housing for the base housing, a reciprocating plunger mounted in the cover housing and having its outer end extending exteriorly thereof and its inner end extending in the housing for abutment against the outer end of the push button, means urging the push button toward the plunger, a key lock in the housing having a bolt for selective stop engagement with the plunger, the lock being adapted for operation by an exteriorly inserted key for extending and retracting the lock bolt into and out of stop engagement with the plunger.

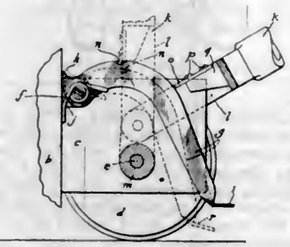
1,677,720. ELECTRIC CUT-OUT. GEORGE FRED LINCKS, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Dec. 17, 1924. Serial No. 756,613. 8 Claims. (Cl. 200—117.)



1. An electric cut-out comprising an insulating shell having a transverse partition provided with a contracted

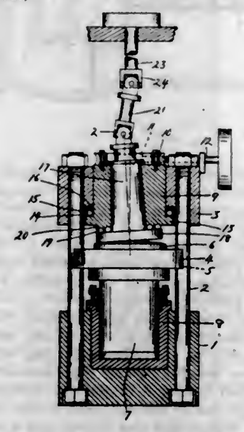
opening and dividing the interior thereof into an explosion proof chamber and a spring chamber, arc suppressing fluid within and surrounding said explosion proof chamber, metal contacts secured to the ends of said shell, a fusible element extending through said explosion proof chamber from one of said contacts, a displaceable terminal connected to the opposite end of said fusible element and disposed adjacent said contracted opening, and spring means disposed in said spring chamber and exerting tension on said displaceable terminal.

1,677,721. HANDLE FOR VACUUM CLEANERS, ETC. WALDEMAR L. LINDGREN, Chicago, Ill., assignor, by direct and mesne assignments, to Alfred A. Norton, Chicago, Ill. Filed July 17, 1924. Serial No. 726,569. 2 Claims. (Cl. 306—12.)



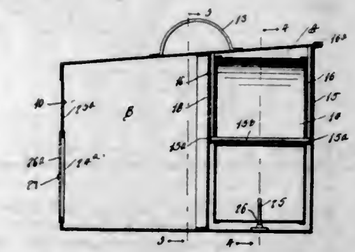
1. In a device of the class described, the combination with a casing, of a handle pivoted thereto and adapted to swing from an inclined to a substantially vertical position, a spring-pressed latch lever having a recess with vertical edges pivoted to the casing, and a latch member on the handle co-operating with the vertical edges of the recess to lock the handle from swinging movement relative to the casing in either direction while the latch remains in its operative position, said latch lever having the portion adjacent the recess shaped so that as the latch member swings up toward the recess it finally engages the surface of the latch lever before it reaches the recess so as to put the spring under increased tension.

1,677,722. METHOD OF FORMING TAPERED CROSS-SECTION DISKS. EDWARD D. LOWRIE, Detroit, Mich., assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich., a Corporation of Michigan. Filed July 9, 1923. Serial No. 650,564. 6 Claims. (Cl. 80—16.)



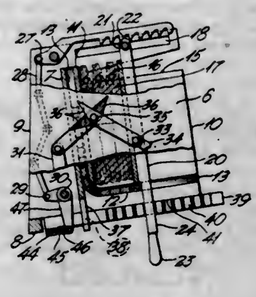
6. A method of forming a tapered disk which includes the steps of applying pressure to a blank by means of a plate, positively rotating the plate, and revolving the plate about an axis angularly arranged with respect to the axis on which the plate is rotated.

1,677,723. BIRD TRAP. JOEL M. MAXWELL, Sedalia, Mo. Filed Nov. 18, 1926. Serial No. 149,168. 2 Claims. (Cl. 43—68.)



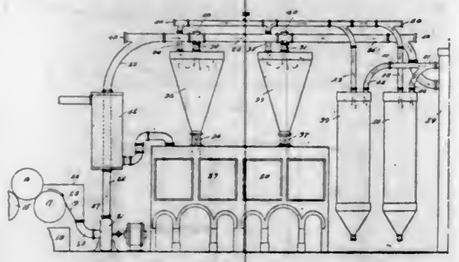
1. A trap of the class described having a catching chamber and a captive chamber, a partition between said chambers having an opening therethrough, a drum in the catching chamber, means pivotally mounting said drum and forming a perch therein, means maintaining said drum normally in capturing position and in closing relation to said opening, said drum being over-balanced by a captive so that the same may pass therefrom through said opening into the captive chamber, and subsequently return to catching position, means to limit the movement of said drum comprising a pin extending from the box and the drum having an elongated slot coacting with the pin, and bearings carried one by the partition and one by an adjacent wall of the box, said bearings being open at the top and closed at the bottom, and trunnions on the drum removably engaging said bearings.

1,677,724. TOBACCO PRESS. THOMAS MILLER, Brooksville, Ky. Filed Apr. 11, 1927. Serial No. 182,591. 7 Claims. (Cl. 100—57.)



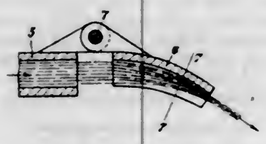
1. A press of the character described, comprising a fixed back board, side boards mounted on the back board, said side boards having transversely extending corresponding slots at one end thereof, a transverse bar slidably engaging said slots, a presser board mounted on said bar, said presser board being adapted to co-operatively engage said side boards and said back board, and means for adjustably positioning said presser board with relation to said back board, for the purposes described.

1,677,725. BAGASSE HANDLING. WALLACE MONTGOMERY, Central Miranda, Cuba, assignor to Edge Moor Iron Company, Edge Moor, Del., a Corporation of Delaware. Filed Nov. 23, 1926. Serial No. 150,323. 4 Claims. (Cl. 209—2.)



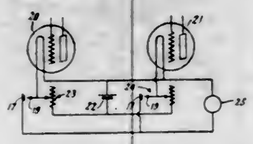
1. The method of handling bagasse and associated bagacillo which comprises propelling the same by a current of air, causing the bagasse to settle out of the current at a desired point and thereafter separating the bagacillo from the propelled air current.

1,677,726. METHOD OF AND APPARATUS FOR DELIVERING SAND INTO MOLDS. OTTO NAGEL and WILHELM KAEMPFER, Durlach, Baden, Germany, assignors to Badische Maschinenfabrik & Eisengiesserei vormals G. Sebold und Sebold & Neff, Durlach, Baden, Germany. Filed Apr. 18, 1927, Serial No. 184,823, and in Germany Mar. 23, 1927. 7 Claims. (Cl. 302—63.)



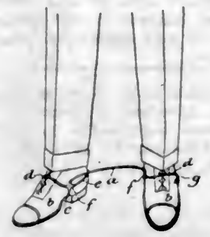
4. A nozzle for delivering sand into molds by compressed air, comprising a cylindrical portion for delivering the sand and compressed air, and a terminal discharge portion of angular cross-section, adapted to bring the same to more compact form, said terminal discharge portion having a wall extending in a direction at an angle to the axis of the cylindrical portion and in the path of movement of the sand.

1,677,727. VACUUM-TUBE-CONTROL DEVICE. JACKSON H. PRESSLEY, Long Branch, N. J. Filed July 27, 1926. Serial No. 125,222. 4 Claims. (Cl. 201—55.)



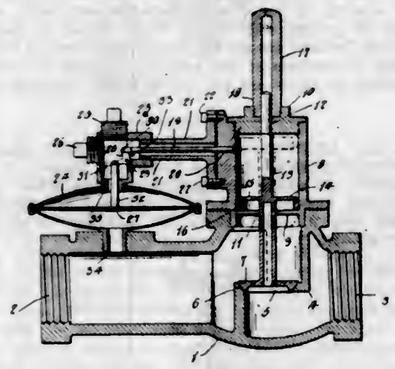
1. A variable resistance device for controlling the filament current of a thermionic relay comprising a resistance, an arm movable thereon to vary the resistance in circuit, an operating shaft mounted for rotation to drive said arm and for axial movement to close a pair of contacts, and means comprising a cam surface for effecting axial movement of said shaft to close said contacts before causing movement of said arm, when said shaft is rotated.

1,677,728. MEANS FOR FACILITATING LOCOMOTION ON FOOT. JOHN DENIS MANSFIELD ROBINSON, Roydon, England. Filed May 7, 1926, Serial No. 107,444, and in Great Britain May 18, 1925. 4 Claims. (Cl. 272—70.)



1. An appliance for facilitating human locomotion in running or walking comprising ankle engaging members, means to prevent said ankle engaging members from rising upon the leg of the wearer and a single elastic element joining and connected only to said ankle members and adapted to be placed under tension with each stride of the wearer so as to extend in a straight line between said members.

1,677,729. AUTOMATIC CUT-OFF VALVE FOR GAS LINES. CHARLES L. SAMS, Bridgeport, Ohio. Filed Jan. 8, 1927, Serial No. 159,955. Renewed June 11, 1928. 1 Claim. (Cl. 67—115.)



An automatic cut-off comprising a casing having a valve seat, a valve arranged within the casing and adapted when in closed position to occupy the seat, a cylinder extending from the casing in axial alinement with the valve seat, said cylinder being closed at its ends and provided in a side thereof with a radial opening, a piston slidably arranged within the cylinder and provided with an axial opening, a stem secured to the valve and piston, a sleeve extending at right angles from the cylinder and communicating with the opening therein, a second casing secured to and communicating with said first casing, an elbow secured to and communicating with the sleeve and second casing, a diaphragm within the second casing, an angle lever pivoted within the elbow, a rod secured to the diaphragm and elbow, and a pin arranged within the sleeve and the opening in the cylinder and connected to the lever.

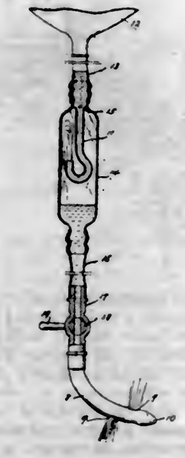
1,677,730. MANUFACTURE OF PARAFORMALDEHYDE. KARL SATOR and WILHELM PFANNMÜLLER, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed June 26, 1926, Serial No. 118,845, and in Germany July 2, 1925. 4 Claims. (Cl. 260—140.)

1. The process of producing solid polymers of formaldehyde which consists in removing water from gas mixtures comprising formaldehyde and water vapor and separating the solid product from the remaining gases.

1,677,731. PROCESS OF WORKING UP ACID RESINS OBTAINED FROM THE REFINING OF MINERAL-OIL DERIVATIVES INTO NEUTRAL BITUMENS. CARL SAUTERMEISTER, Wiesbaden, Germany, and FRIEDRICH WILHELM, Ploesti, Rumania. Filed Dec. 19, 1925, Serial No. 76,552, and in Rumania June 30, 1925. 2 Claims. (Cl. 196—148.)

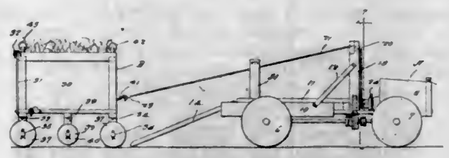
1. A process of working up acid resins, obtained from the refining of mineral oil derivatives, into neutral bitumens, consisting in heating the acid-tar, agitating the same to separate the sulphuric acid from the tar, removing the sulphuric acid, heating the tar in order to concentrate the sulphuric acid remaining, continuing the heating up to about 130° C., and thereafter introducing sulphur into the tar so as to form sulphuretted hydrogen which reduces the sulphuric acid.

1,677,732. LIQUID-FLOW REGULATOR. OSCAR BOTO SCHELLBERG, New York, N. Y. Filed Apr. 14, 1927. Serial No. 183,672. 2 Claims. (Cl. 128—229.)



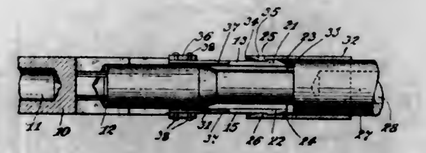
1. In combination with a liquid reservoir and delivery tube therefor, a visible indicator disposed between said reservoir and tube for disclosing the condition of the flow through said tube, said indicator embodying a transparent receiver operatively connected with said reservoir and said tube in open communication therewith, and an inlet member extending part-way into said receiver for delivery thereinto, said receiver being closed at the upper end of said inlet member to form an air pressure chamber, the pressure wherein is increased or diminished in accordance with the accumulation in the end of said receiver opposite said inlet member, said pressure being employed to restrict and atop the flow from said inlet member.

1,677,733. SUGAR-HAULING APPARATUS. JOSEPH SCHIFTNER, La Gloria, Cuba. Filed Mar. 23, 1927. Serial No. 177,784. 4 Claims. (Cl. 214—85.)



3. In combination, a truck body, slideway means in the truck body, a gang plank, a block, a strip of flexible material connecting one end of the gang plank with the block, said plank, said strip of flexible material and said block being slidable in the slideway, and means for preventing the block from being moved completely out of the slideway.

1,677,734. CONNECTER. LEO O. SMITH, Brooklyn, N. Y., assignor to Columbia Machine Works and Malleable Iron Co., Brooklyn, N. Y., a Corporation of New York. Filed May 11, 1927. Serial No. 190,392. 3 Claims. (Cl. 173—328.)

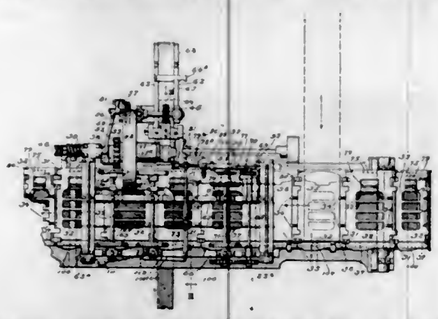


3. In a connecter for electric cables and the like, a socket member having a plurality of spaced longitudinal slots in a cylindrical wall thereof to provide therein a series of spaced tongues, a plug member adapted to fit within the tongues of the socket member, means associated with the plug member for engaging the ends of the tongues to maintain the parts in an associated relationship, a member fitting over and movable on the said tongues, and a series of spacer devices connected to and carried by the said member and adapted to fit within the slots between the said tongues, the said member and spacer devices carried thereby being shiftable from one position in which the tongues are yieldable to pass into the means for engaging the same with the plug to another position in which the said member and spacer devices carried thereby prevent any yielding movement of the tongues and thereby prevent the tongues from becoming accidentally disengaged from the said means.

1,677,735. METHOD OF AND MACHINE FOR CONDITIONING SHEET ARTICLES AND OF AND FOR APPLYING MINOR MEMBERS TO SHEET ARTICLES, SUCH AS ENVELOPES, FOR EXAMPLE. GEORGE C. SNYDER, New York, N. Y., assignor to Kaelma Manufacturing Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 2, 1924. Serial No. 741,180. 80 Claims. (Cl. 93—61.)

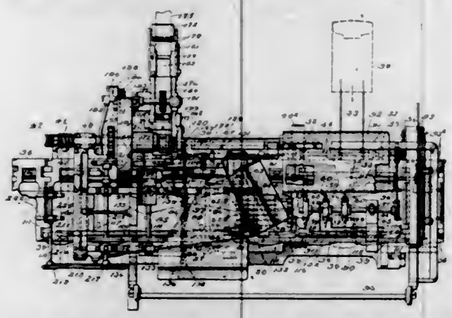
1. The method herein described, including moving sheet articles, in substantially flat form continuously in

succession past a location where minor members are to be applied, and delivering the minor members to and im-



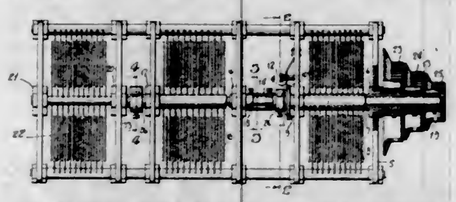
mediately connecting them interlockingly with the actual material of the articles at such location while the articles are moving.

1,677,736. METHOD OF AND MACHINE FOR APPLYING MINOR MEMBERS TO SHEET ARTICLES. GEORGE C. SNYDER, New York, N. Y., assignor to Kaelma Manufacturing Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 28, 1925. Serial No. 53,056. 60 Claims. (Cl. 93—61.)



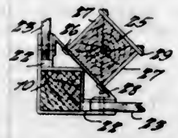
1. The method herein described, including moving individual sheet articles, flattening and positioning those articles which are qualified for use in a subsequent operation, and positively engaging and removing those articles which are not flattened and are disqualified for use whether positioned or not.

1,677,737. RADIO TUNING DEVICE. OSHEL C. STAATS, Ripley, W. Va. Filed Feb. 6, 1926. Serial No. 86,564. 2 Claims. (Cl. 175—41.5.)



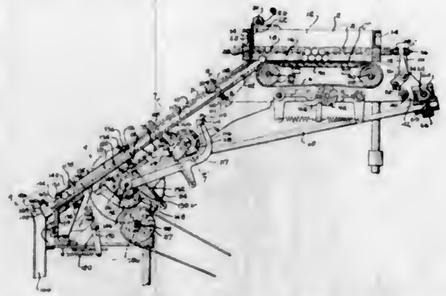
1. In a radio tuning device, a frame, sets of condenser elements carried thereon, a hollow shaft rotatable through a zone of the frame having one set of condenser elements, condenser elements carried on the said shaft and adapted to coact with the condenser elements in the said zone, a hollow shaft within the first mentioned shaft extending beyond each end of said shaft, means yieldingly connecting the shafts for rotation in unison, the second mentioned shaft carrying condenser elements for a succeeding zone, a shaft within the second mentioned shaft extending beyond its ends, condenser elements carried by the inner shaft to coact with the condenser elements of another zone, means for yieldingly coupling the first mentioned and second mentioned shafts together, means for yieldingly coupling the inner shaft to the intermediate shaft, and separate hand grasps for the shafts whereby they may be manipulated simultaneously or selectively.

1,677,738. OIL-WELL DERRICK. BENJIMAN F. SUMPTER, Wichita Falls, Tex.; DOUGLAS E. WINFREE, Chickasha, Okla.; and ROLAND B. ROBIRDS, Wichita Falls, Tex. Filed Apr. 1, 1927. Serial No. 180,260. 2 Claims. (Cl. 20—0.5.)



2. In an oil well derrick, a plurality of brackets adapted to receive sectional corner posts, girth shoes carried by each bracket, a web connecting the shoes of each bracket, and a reinforcement clamp anchored to said web.

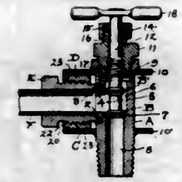
1,677,739. ASSEMBLING MACHINE. HARRY E. TOWNSEND, Brooklyn, N. Y. Filed Dec. 9, 1925. Serial No. 74,295. 17 Claims. (Cl. 226—2.)



1. A machine for handling articles of the kind described having, in combination, a hopper having a discharge opening adjacent to its lower end, an endless conveyor adjacent to the bottom of the hopper for conveying the articles toward said discharge opening, means for arranging the articles on said conveyor in rows extending longitudinally thereof, with the articles in each row arranged edge to edge in upright position, and means for imparting advancing and retracting movements to said conveyor to tend to move the articles toward and from said discharge opening, said advancing movements being of greater extent than the retracting movements.

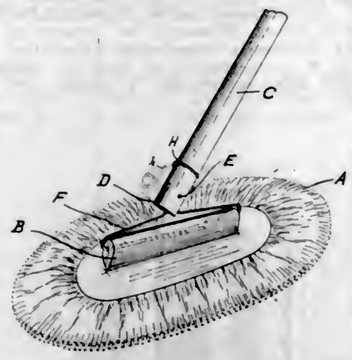
2. A machine for handling articles of the kind described having, in combination, a hopper, an endless conveyor adjacent to the bottom of the hopper having one end thereof spaced a distance away from the lower end of a wall of said hopper to provide an opening through which the articles may be discharged, means for arranging the articles on said conveyor in rows extending longitudinally thereof with the articles in each row arranged edge to edge in upright position, and means for imparting advancing and retracting movements to said conveyor to tend to move the articles toward and from said discharge opening, said advancing movements being of greater extent than the retracting movements.

1,677,740. COMBINED VALVE AND PIPE COUPLING. ALBERT J. WEATHERHEAD, Jr., Cleveland, Ohio. Filed Apr. 13, 1927. Serial No. 183,371. 8 Claims. (Cl. 137—69.)



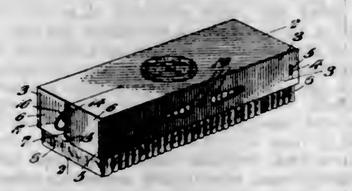
1. A combined valve and pipe coupling, comprising a body having longitudinal and lateral passages, a valve member extending into said body adapted to control the flow of a fluid through said passages, and a separate member sleeved over said body in axial alignment with said valve member, said separate member having a tubular nut adapted to clamp a pipe against said body in open communication with said lateral passage.

1,677,741. HOLDER FOR MOPS. WILLIAM T. WHITAKER, Elkins Park, Pa. Filed Sept. 22, 1926. Serial No. 137,148. 1 Claim. (Cl. 15—147.)



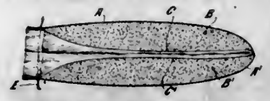
A holder for a mop comprising a handle provided with a slot extending inwardly from one end thereof, a mop holding member extending within the slot, and a pin extending through the handle and across the slot and forming a pivotal mounting for the member, said pin being provided with a clip at one end of the pin and embracing the handle, said clip extending about the handle from its junction with the pin beyond the free end of the pin.

1,677,742. POLISHING DEVICE. STEPHEN G. WILSON, Philadelphia, Pa. Filed Mar. 5, 1927. Serial No. 172,990. 4 Claims. (Cl. 15—223.)



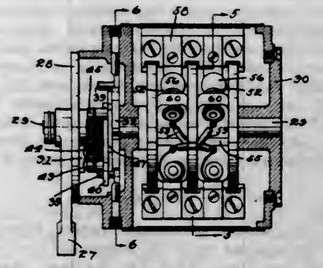
1. A polishing device comprising a casing open at its bottom and having slots and notches at its ends, a filler, a back to receive said filler, and a flat strip of spring material passing through said filler and back and having laterally extending inclined flanges co-operating with said slots and notches to retain said filler and back within said casing.

1,677,743. COMBINED BAG AND CUSHION. HERBERT BERTON, London, England, assignor of one-half to Arthur Berton Limited, London, England. Filed Apr. 26, 1927, Serial No. 186,655, and in Great Britain Jan. 10, 1927. 4 Claims. (Cl. 5—337.)



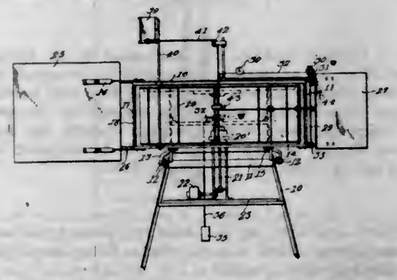
1. A combined reversible bag and cushion, consisting of an open-ended bag made of covered waterproof material and a padding covered with textile fabric secured to the interior surface of the bag to form a cushion said bag having sufficient capacity to receive said padding, whereby when said padding is exteriorly of the bag a waterproof pocket is presented within said padding, and when said bag is reversed a waterproof covering upon both sides of the padding is afforded.

1,677,744. ELECTRIC REVERSING DEVICE FOR TAPPING MACHINES. BENJAMIN S. T. BISHOP, Shrewsbury, and HENRY A. JACOBSON, Worcester, Mass., assignors to Leland-Gifford Company, a Corporation of Massachusetts. Filed Feb. 3, 1926. Serial No. 85,693. 12 Claims. (Cl. 200—70.)



1. The combination of a rod, a lever connected with said rod, a reversing switch comprising an oscillatable plate connected to be operated by said rod, a shaft on which the plate is movable, means for alternately connecting said plate with the shaft and disconnecting it therefrom, and means for conducting a current through the switch alternately in opposite directions as the plate is oscillated.

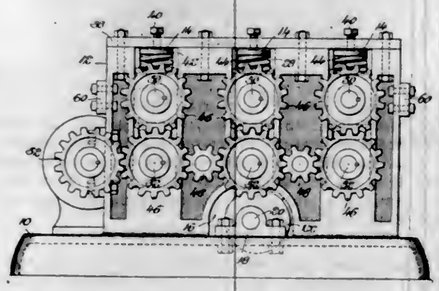
1,677,745. FLUID MOTOR. DOMENICO BONETTO, St. Louis, Mo. Filed Oct. 19, 1925. Serial No. 63,450. 1 Claim. (Cl. 170—12.)



In an apparatus of the class described, a support having a horizontally disposed angle iron ring, its horizontal flange forming a circular track and its vertical flange

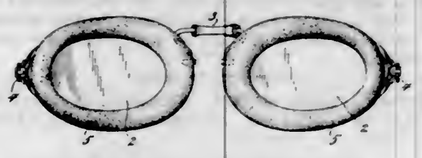
forming a means of attachment, a supporting member, brackets depending from said member, each bracket having a pair of arms of unequal length and having rollers mounted adjacent their free ends and engageable with the top and bottom surfaces of said horizontal flange, and a windmill frame mounted on said supporting member.

1,677,746. BENDING MACHINE. JOHN Y. BROWN and JOHN R. BROWNING, Everettville, W. Va. Filed June 19, 1926. Serial No. 117,093. 1 Claim. (Cl. 153—56.)



In a bar or rail bending machine, a pair of spaced frame members, three pairs of bearing blocks carried by each frame member, shafts connecting corresponding blocks of the respective frame members, a roller carried by each shaft, the intermediate pairs of blocks being slidably mounted in said frame members, a rotatable shaft mounted below said intermediate blocks, eccentric disks on said shaft supporting said intermediate blocks, a lever on said shaft for rotating same, a fixed toothed segment, and means carried by said lever cooperating with said segment to retain said lever in different angularly adjusted positions.

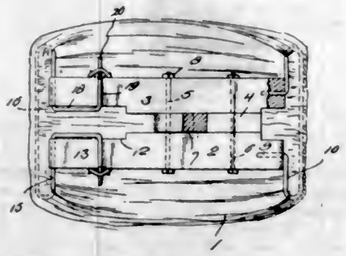
1,677,747. GOGGLES. WILLIAM NEVINS COOK, New York, N. Y., assignor to E. B. Meyrowitz, Inc., a Corporation of New York. Filed Nov. 1, 1924. Serial No. 747,168. 13 Claims. (Cl. 2—14.)



1. A resilient cushion for attachment to an eye-piece frame of a pair of goggles, comprising an elongated integral ring member formed of sponge rubber and having a varying cross section, and means cooperating therewith, and comprising removable stitching, whereby the larger section of said cushion is adapted to be adjusted in a facial hollow, attached to a goggle frame.

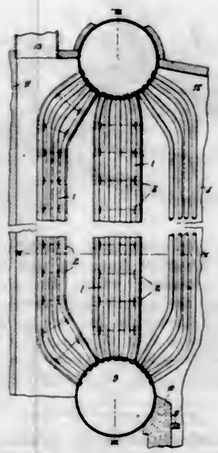
1,677,748. FLOOR MOP. SAMUEL NORMAN CRAGIN, Akron, Ohio. Filed Aug. 11, 1927. Serial No. 212,304. 4 Claims. (Cl. 15—231.)

1. A mop comprising a body having longitudinally disposed sockets in one of its ends and also having its opposite end bifurcated and provided with kerfs in the ends of the furcations, a loop shaped mop cloth holder having longitudinally disposed terminal portions removably arranged in said sockets at one end of the body, a loop shaped mop cloth holder having portions removably arranged in the kerfs at the opposite ends of the body



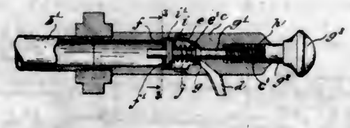
and also having longitudinally disposed portions and lateral arms at the inner ends of said portions and terminating in enlargements, and keeper loops pivotally connected to the side edges of the body and swingable into and out of engagement with said enlargements.

1,677,749. CONTROL OF GASES THROUGH BOILERS. JOSEPH B. CRANE, Pittsburgh, Pa., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 24, 1923. Serial No. 670,490. 5 Claims. (Cl. 110—98.)



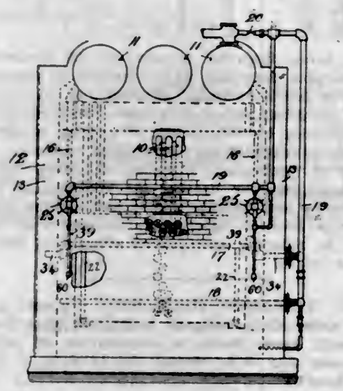
1. A water tube boiler consisting of a bank of tubes arranged in parallel rows, a combustion chamber and an outlet for products of combustion, said elements being so arranged that the gases will flow in a direction at an angle to the tubes in combination with a plurality of substantially continuous walls or partitions extending between and substantially parallel with adjacent parallel rows of tubes in a direction of the flow of the gases and spaced from the tubes forming the rows, said walls or partitions being substantially continuous through the bank and adapted to divide the gases flowing from the combustion chamber into a plurality of streams laterally confined to operate on a plurality of tubes forming the rows or lines between adjacent walls.

1,677,750. LIQUID-SOAP DISPENSER. JOSEPH M. DABNOWSKI, Brooklyn, N. Y., assignor to Moore Brothers Company, New York, N. Y., a Corporation of New York. Filed Sept. 9, 1919. Serial No. 322,637. 5 Claims. (Cl. 221—94.)



1. A liquid soap dispenser embodying therein a tank having an opening therein to the atmosphere, distributing piping including a plurality of branch pipes and a valve controlled delivery mechanism connected with each of said branch pipes consisting of a substantially horizontal casing, a substantially vertical partition having an intake port therethrough, and forming a horizontally extending supply chamber, one end of said chamber having a recessed portion forming a sub-chamber communicating with said supply chamber, a nozzle leading from said sub-chamber, a valve movable in said sub-chamber and controlling said nozzle, an actuating stem therefor, a spring acting thereon, a second valve seated within said supply chamber and controlling said intake port, and operative connections between said valve, whereby with the opening of said first named valve, said other valve will be closed, and with the closing of said first named valve, said other valve will be opened.

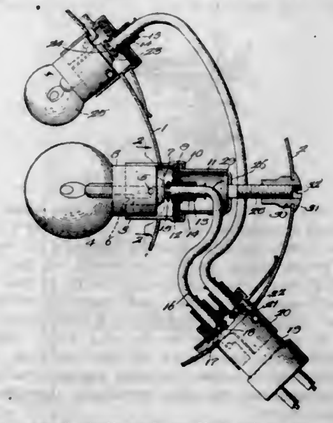
1,677,751. SOOT-BLOWER APPARATUS FOR STEAM BOILERS. CHARLES L. DAVIDSON, New York, N. Y. Filed June 25, 1921. Serial No. 480,309. 1 Claim. (Cl. 122—392.)



The combination with a steam boiler having a casing, of an oscillatable perforated blower element permanently mounted within the casing, a protecting wall within said casing behind which said element normally rests to protect it from direct heat, means on the outside of the casing for moving said blower element out of normal position for use and means for maintaining said blower element in protected position against which the first mentioned means acts in moving said blower element into position for use.

1,677,752. ELECTRIC REFLECTING LAMP. HARRY A. DOUGLAS, Bronson, Mich. Filed Jan. 27, 1921. Serial No. 440,488. 1 Claim. (Cl. 73—328.)

An electrical connector including a shell having an annular internal groove which is U-shaped in cross section and which is located at one end of the shell; a second shell having a flange extending into said groove; a disk of insulation also received in said groove; and a spring contact carried by said disk adapted to be compressed by a circuit continuing element engaged in



the first named shell and tending when so compressed to force the disk against the flange of the second shell whereby the possibility of disturbance of the assembly of said shells by vibration is eliminated.

1,677,753. CELLULOSE COMPOSITION. OTTO DROSSBACH, Ludwigshafen-on-the-Rhine, and OTTO JORDAN, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed July 2, 1926, Serial No. 120,254, and in Germany July 24, 1925. 4 Claims. (Cl. 106—37.)

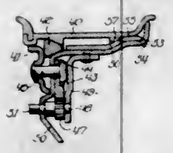
4. The process of preparing plastic which consists in treating a cellulose derivative with an ester of an ethylene di-carboxylic acid with a non-aromatic alcohol.

1,677,754. BEATER. LEE EDGAR EARLE, Albany, N. Y., assignor to United Royalties Corporation, New York, N. Y. Filed May 20, 1925. Serial No. 31,651. 5 Claims. (Cl. 259—131.)



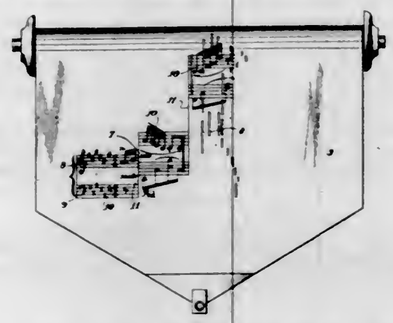
1. A beater comprising a vertical frame having at its lower end a laterally extending portion formed with a pinion opening, a pinion located in the said opening and carrying beater blades, and a bridge extending across the said opening connected to opposite portions of the supporting frame by being bent around the latter for preventing the disengagement of the pinion from the driving gear.

1,677,755. DISK WHEEL. GEORGE H. FORSYTH, Harvey, Ill., assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich., a Corporation of Michigan. Filed July 11, 1921. Serial No. 484,008. 3 Claims. (Cl. 301—22.)



1. In a wheel, the combination with the wheel body, the felly, and a demountable rim, of adjustable rim-positioning and retaining clips bearing laterally on the rim at divers points about the circumference of the wheel, an adjusting ring rotatable concentrically of the wheel and circumferentially slotted and provided with cam surfaces at intervals corresponding to the clips, bolts connected to the clips and to the ring within the slots with the bolt heads bearing on the cam surfaces, whereby simultaneously to press the clips against the rim to position the same on the felly uniformly throughout as the ring is rotated.

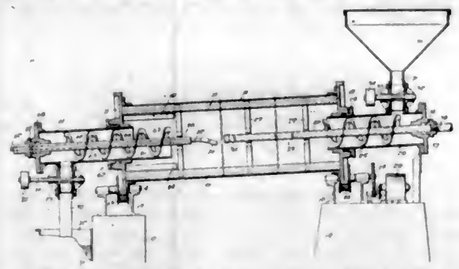
1,677,756. MUSIC ROLL FOR PLAYER PIANOS. OSCAR FOSS, Aneroid, Saskatchewan, Canada. Filed June 10, 1926, Serial No. 115,036, and in Canada Apr. 20, 1926. 2 Claims. (Cl. 84—165.)



2. A music roll for player pianos having a musical exercise printed thereon and perforations, adapted when used in connection with a player piano to mechanically reproduce the said musical exercise printed thereon; said printed exercise extending continuously transversely of the sheet from margin to margin and stepped longitudinally of the roll in measure-length fragments, having the bars on aligned ends of adjoining measures extended to connect the same, the lines returning from the right hand end to recommence in alignment at the left hand margin, said measures being disposed longitudinally of the roll so that the bottom line of the staff is in horizontal alignment with the bottom of the perforation representing the first note in each respective measure.

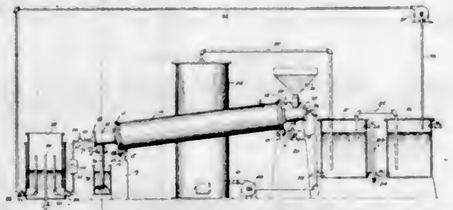
1,677,757. TREATMENT OF CARBONACEOUS AND OTHER MATERIALS. FELIX FRANK, San Francisco, Calif., assignor, by mesne assignments, to William Wallace Kemp, Baltimore, Md. Filed Dec. 1, 1920. Serial No. 427,566. 8 Claims. (Cl. 202—8.)

1. The herein described process for the treatment of heat dissociable carbonaceous material, which consists in introducing the material into an air-tight chamber, and subjecting the same to the direct action of a flame produced by burning a previously formed mixture of uniform composition containing as constituents combustible materials, and a supporter of combustion, and including an excess of one constituent, thereby heating the material to dissociate the same into volatile matter and



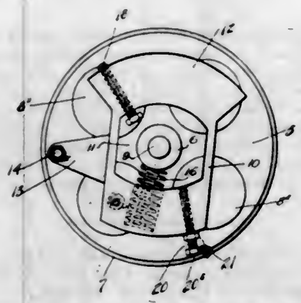
residue and carrying out a chemical reaction by the action of an element of the excess constituent on an element of the material being treated.

1,677,758. TREATMENT OF CARBONACEOUS AND OTHER MATERIALS. FELIX FRANK, San Francisco, Calif., assignor, by mesne assignments, to William Wallace Kemp, Baltimore, Md. Original application filed Dec. 1, 1920, Serial No. 427,566. Divided and this application filed Jan. 2, 1923. Serial No. 610,290. 2 Claims. (Cl. 202—8.)



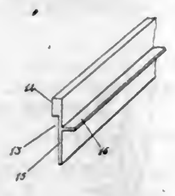
1. The herein described process for the treatment of heat dissociable materials which consists in introducing the material into an air-tight chamber and subjecting the same to the direct action of a flame produced by burning a previously formed mixture of uniform composition, containing as constituents combustible material and a supporter of combustion, including an excess of a reducing agent, thereby heating the material to dissociate the same into volatile matter and residue and carrying out a chemical reaction by the action of an element of the reducing agent on an element of the material being treated.

1,677,759. VIBRATING MECHANISM. ALBERT A. FREVERT, Alma, Mich., assignor to Crippen Manufacturing Company, Alma, Mich., a Corporation of Michigan. Filed Aug. 23, 1926. Serial No. 131,029. 7 Claims. (Cl. 74—14.)



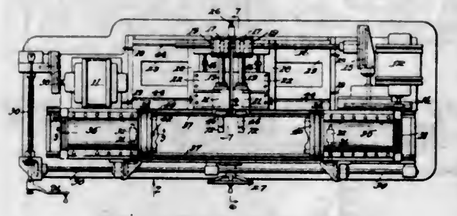
1. A vibrating mechanism comprising a cylindrical member having a hub, a counter-balanced counterweight pivotally secured thereto and having a centrally disposed opening embracing said hub, resilient means interposed between the counterweight and hub and adjustable means for adjusting the offcenter movement of the counterweight.

1,677,760. DIVIDING STRIP FOR TERRAZZO FLOORING. PASQUALE GALASSI, New York, N. Y. Filed Jan. 18, 1928. Serial No. 247,619. 5 Claims. (Cl. 94—18.)



1. A floor strip of the character described, comprising a relatively narrow rib portion and a wider head portion integral therewith, said head portion having an upper uninterrupted straight edge.

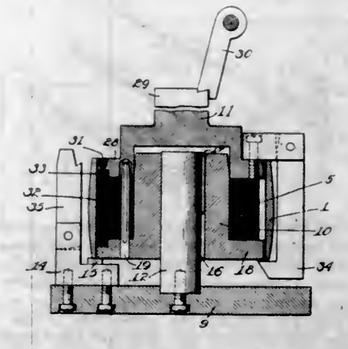
1,677,761. MACHINE FOR MILLING CRANK-SHAFT PINS. ALBERT J. GIFFORD, Shrewsbury, and BENJAMIN S. T. BISHOP, Worcester, Mass., assignors to Leland-Gifford Company, Worcester, Mass., a Corporation of Massachusetts. Filed June 25, 1924. Serial No. 722,403. 2 Claims. (Cl. 90—20.)



1. In a milling machine, the combination with a milling cutter spindle, of a bed for supporting it, said bed having a pair of longitudinal ways, a head mounted to slide on said ways, means for clamping the head to the ways, said head having a cylindrical passage therethrough, a spindle rotatably mounted in said passage, a gear on the spindle, means for rotating said gear to rotate the spindle, and means on the end of the spindle for locating an eccentric part of the work to be operated upon in a certain position around the circumference of the spindle, said spindle being provided with an eccentric fixed stop on the end thereof for engaging the end of the work for the purpose described.

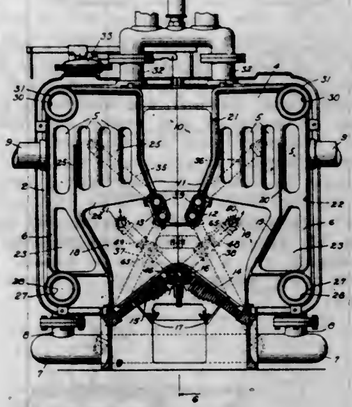
1,677,762. MOTOR-ASSEMBLING FIXTURE. ROY O. GILBURG, Wausau, Wis., assignor to Marathon Electric Mfg. Co., Wausau, Wis., a Corporation of Wisconsin. Filed July 5, 1927. Serial No. 203,428. 5 Claims. (Cl. 22—116.)

1. In a fixture for securing a laminated stator ring core in place in a motor frame, an arbor for receiving the core, a base for holding the arbor, the base having locating pads for positioning the frame in relation with the core, and rods mounted in pairs in the arbor for projecting into the annular space between the core and the frame



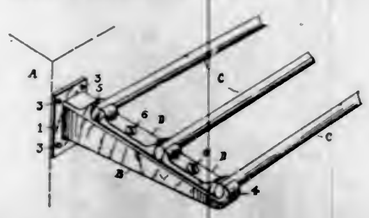
so that the holds for casting strips of metal in said space may be formed by pouring sand into the spaces between the pairs of rods.

1,677,763. STEAM GENERATOR. MERRIMAN C. GILLETT, Philadelphia, Pa., assignor to Standard Heater Company, Williamsport, Pa., a Corporation of Pennsylvania. Filed Jan. 18, 1924. Serial No. 687,149. Renewed May 18, 1928. 11 Claims. (Cl 122—228.)



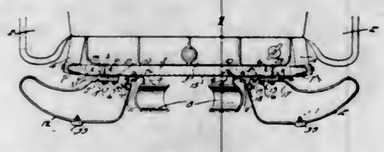
1. In a steam generator, the combination of a plurality of water circulating sections including a front and a back section, said sections being so shaped as to form a choke magazine; a pair of hollow choke members each provided with a pair of water channels disposed along the lower edges of said magazine and forming a continuation of the choke sides thereof; a water inlet to the back section above said choke members; a water header joining the side edges of said back section; upper water connections between one of the channels in each of said choke members and said back section; lower water connections between said header and the other of said channels in each of said choke members; a combustion chamber into which said choke members extend; a grate hollow supporting member provided with means for admitting air thereto associated with said combustion chamber; and valved means for cooling and supporting member.

1,677,764. SUPPORTING BRACKET FOR PARALLEL RAILS, RODS, AND THE LIKE. JOHN EDWARD GLOEKLER, Pittsburgh, Pa. Filed Oct. 9, 1925. Serial No. 61,522. 3 Claims. (Cl. 186—34.)



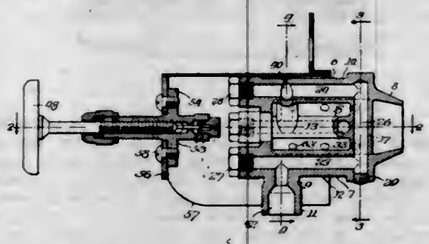
1. In a support for cafeteria rails, the combination of a bracket having lugs thereon and said lugs being provided with an arcuate face against which one side of the rails fit, and a clamp-plate detachably secured to the bracket and having its ends provided with an arcuate surface which fits against the other side of the rails opposite the lugs whereby the rails are held fixedly in position.

1,677,765. AUTOMOBILE FENDER GUARD. OSCAR H. GOETZ, Springfield, Mass., assignor to American Chain Company, Inc., a Corporation of New York. Filed Oct. 5, 1925. Serial No. 60,404. 7 Claims. (Cl. 293—55.)



1. An automobile fender-guard comprising a set of impact-bars in the form of extended loops combined with a bracket having means to connect and support said loops in vertically spaced alignment, and with means to permit ready attachment of said bracket and connected loops, as a unitary structure, to a transverse member of an automobile frame.

1,677,766. VAPORIZING NOZZLE. EUGENE E. GOLLER, Chicago, Ill., assignor to Unique Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 23, 1926. Serial No. 118,123. 5 Claims. (Cl. 158—33.)



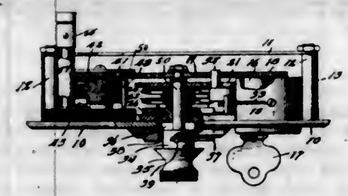
1. A vaporizing nozzle for blow torches and the like, which comprises a hollow casting, longitudinal tubular passages for liquid fuel in the walls thereof; transverse tubes connecting said passages, said tubes crossing at right-angles to each other and also being at right-angles with said tubular passages; an ejector nozzle for vaporized fuel in communication with said passages and located rearwardly of said transverse tubes and in line with the point at which said tubes cross so as to direct a stream of flame against said transverse tubes to heat them and vaporize the liquid fuel passing therethrough; a flame orifice in the end of said casting opposite to said ejector nozzle; and means, comprising a threaded opening communicating with said passages, for connecting said nozzle to a fuel supply.

1,677,767. PENCIL CARRIER. GILBERT W. GOODRIDGE, Fairfield, Conn., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 17, 1926. Serial No. 155,494. 3 Claims. (Cl. 124—116.)



1. A pencil-holding clip, comprising means for attaching thereto the end of a chain of the ball-and-link type, and a catch adapted to establish readily disengageable connection with the chain intermediate the ends of the latter, said catch comprising a lug apertured to accommodate a link of the chain, said aperture having a constricted guideway opening thereto.

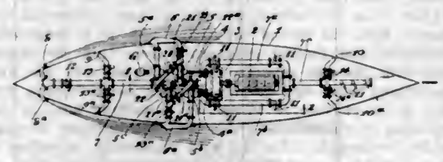
1,677,768. LOCKING DEVICE. CHARLES M. GRAVES, New York, N. Y. Filed July 23, 1927. Serial No. 207,957. 16 Claims. (Cl. 70—53.)



1. A locking device comprising a manually operated actuating member, a combination controlled element, a member to be actuated, means controlled by the combination lock to prevent the actuation of one member by the other until the combination has been set, and means preventing disconnection of said members until the actuated member has been returned to normal position.

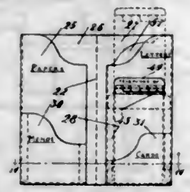
1,677,769. FIRE-FIGHTING BOAT. HARRY Y. HADEN, New York, N. Y. Filed Apr. 7, 1927. Serial No. 181,707. 6 Claims. (Cl. 114—0.5.)

1. A fire boat, including fire extinguishing nozzles and jet propulsion nozzles in combination with an engine, centrifugal pumps and a distributing system for supplying both kinds of nozzles, said engine being of the heavy duty slow speed type, operating through a multiplying gear to drive two or more centrifugal pumps at normal full speed for supplying both kinds of nozzles, said pumps being each designed for maximum output at pressures



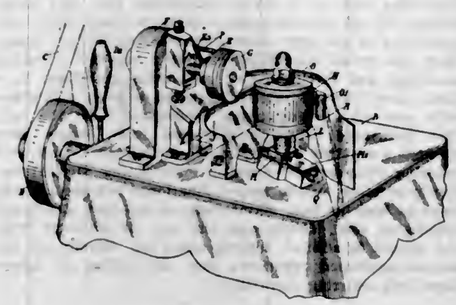
suitable for the jet propulsion and equipped for connection of two or more pumps in series to furnish higher pressures for fire fighting.

1,677,770. POCKET WALLET. HARRY H. HARNSBERGER, Brooklyn, N. Y., assignor to Modern Management Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 10, 1927. Serial No. 211,987. 14 Claims. (Cl. 129—1.)



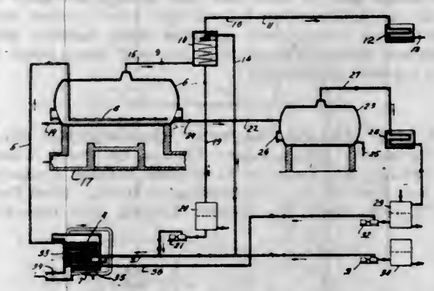
1. As a new article of manufacture, a pocket wallet comprising two body flaps connected by a folding edge, two inner flaps forming two open pockets therewith, and two additional flaps forming two smaller additional open pockets with said inner flaps.

1,677,771. COLLAR-SHAPING MACHINE. JOHN HARRIS, Nuneaton, England. Filed Feb. 14, 1927, Serial No. 168,083, and in Great Britain July 16, 1926. 1 Claim. (Cl. 68—9.)



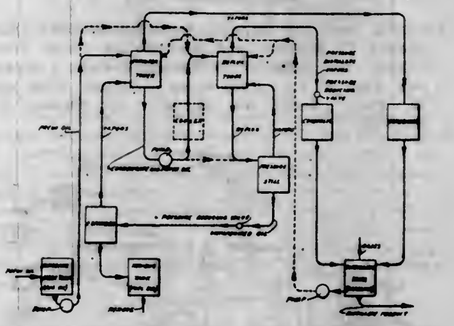
In a collar shaping machine, a rail for supporting a collar, a grooved wheel cooperating with one edge of said rail to move a collar therealong and to shape the fold of the same, a portion of said rail being curved, a guard, a portion of which extends contiguous with and in spaced relation to the curved portion of said rail, and rollers carried by said guard with which one side of a collar moving along said rail is adapted to engage to facilitate movement of the collar along said rail.

1,677,772. ART OF CRACKING HYDROCARBONS. EUGENE C. HERTHEL and THOMAS DE COLON TIFFT, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed June 22, 1926. Serial No. 117,696. 1 Claim. (Cl. 196—49.)



An improved method of producing lower boiling hydrocarbon oils from higher boiling hydrocarbon oils, which comprises forcing such higher boiling hydrocarbon oils in a single pass through a heating zone into a primary vaporizing zone and maintaining the oil under superatmospheric pressure in both the said heating zone and the primary vaporizing zone, passing unvaporized oil from the primary vaporizing zone to an externally unheated secondary vaporizing zone and maintaining the oil therein under a pressure lower than that prevailing in the primary vaporizing zone, taking off and condensing vapors from the secondary vaporizing zone and forcing oil condensed from these vapors again through the heating zone, first in advance of fresh oil and then in admixture with fresh oil, without returning to the heating zone unvaporized components of oil which have once passed therethrough, passing heating gases in the heating zone first in heat exchange with the oil condensed from vapors from the secondary vaporizing zone and then in heat exchange with the mixture of this oil with fresh oil, and taking off vapors from the primary vaporizing zone including vapors of the desired lower boiling hydrocarbon oils.

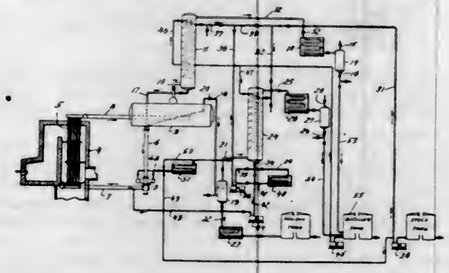
1,677,773. ART OF CRACKING HYDROCARBON OILS. EUGENE C. HERTHEL and THOMAS DE COLON TIFFT, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed June 22, 1926. Serial No. 117,697. 3 Claims. (Cl. 196—49.)



1. In processes of cracking higher boiling hydrocarbon oils to produce lower boiling hydrocarbon oils by distillation under pressure at cracking temperatures in which unvaporized oil is withdrawn during the pressure distillation and subjected to further vaporization by its self-contained heat under a reduced pressure, the improvement which comprises passing the vapors separated from the oil withdrawn from the pressure distillation

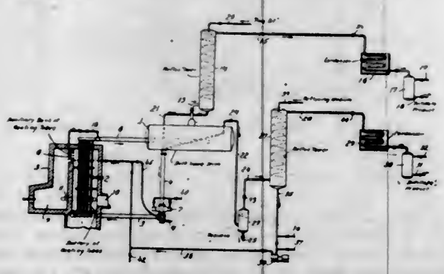
into a tower, introducing fresh oil directly into the vapor space in this tower, so as to bring the fresh oil and vapors into direct and intimate contact therein, thereby subjecting the vapors to condensation, passing the vapors from the pressure still into a reflux tower and introducing admixed condensate and unvaporized fresh oil from the first mentioned tower into direct contact with the vapors therein, and returning reflux together with admixed unvaporized oil from the said reflux tower to the pressure distillation.

1,677,774. ART OF CRACKING HYDROCARBON OILS. EUGENE C. HERTHEL and THOMAS DE COLON TIFFT, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed June 22, 1926. Serial No. 117,698. 1 Claim. (Cl. 196—49.)



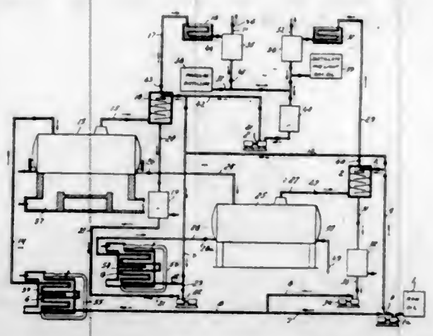
In processes of cracking higher boiling hydrocarbon oils to produce lower boiling hydrocarbon oils by distillation under pressure at cracking temperatures in which unvaporized oil is withdrawn from the pressure distillation during operation and subjected to further vaporization by its self-contained heat through reduction in pressure, the improvement which comprises taking off vapors from the pressure distillation and condensing them to form a pressure distillate, subjecting the vapors separated from the unvaporized oil withdrawn from the pressure distillation to a fractionating operation, and controlling the fractionating operation by supplying thereto a fraction the constituents of which correspond to components of the desired distillate product to take off as vapors from the fractionating operation a fraction the constituents of which correspond to the components of the pressure distillate, and condensing this fraction.

1,677,775. ART OF CRACKING HYDROCARBON OILS. EUGENE C. HARTHEL and THOMAS DE COLON TIFFT, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed Aug. 12, 1927. Serial No. 212,482. 10 Claims. (Cl. 196—49.)



1. An improved method of cracking hydrocarbon oils, which comprises maintaining a body of oil in a vaporizing zone under a superatmospheric pressure and heating it to a cracking temperature by circulating oil therefrom through heating tubes and back thereto, taking off vapors including vapors of the cracked product therefrom under pressure, discharging oil from the said body into a separate vaporizing zone maintained under a pressure lower than that prevailing in the first and taking off vapors from the second vaporizing zone, subjecting the vapors from the second vaporizing zone to a condensing operation and forcing condensate from this condensing operation through separate heating tubes into the first vaporizing zone, and passing heating gases from a firebox in which fuel is burned for supplying heat to the cracking operation first over the heating tubes through which condensate from the said condensing operation is forced and then over the heating tubes through which oil from the said body is circulated.

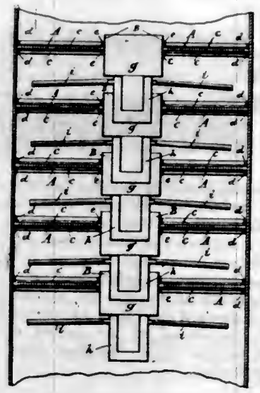
1,677,776. ART OF CRACKING HYDROCARBON OILS. EUGENE C. HERTHEL and THOMAS DE COLON TIFFT, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed Oct. 27, 1927. Serial No. 229,122. 8 Claims. (Cl. 196—49.)



1. An improved method of cracking hydrocarbon oils which comprises forcing raw oil in a single pass through a heating zone into a vaporizing zone and maintaining the oil under superatmospheric pressure in both the heating zone and the vaporizing zone, heating the oil to the cracking temperature in the said heating zone, subjecting the vapors from the said vaporizing zone to a refluxing operation, passing unvaporized oil from the said vaporizing zone to a second vaporizing zone and maintaining the oil therein under a pressure lower than that prevailing in the first vaporizing zone, subjecting vapors from the second vaporizing zone to a separate refluxing operation and forcing reflux condensate therefrom in a single pass through the said heating zone in admixture with raw oil, passing reflux condensate from the said first mentioned refluxing operation in a single pass through a separate heating zone and heating the oil to a cracking temperature therein, maintaining superatmospheric pressure on the second mentioned heating zone at least as high as that maintained on the first mentioned vaporizing zone, discharging the hot oil products from the second mentioned heating operation directly to the second mentioned vaporizing zone and taking off vapors from both refluxing operations.

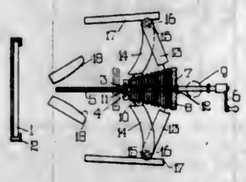
1,677,777. HEAT-INTERCHANGE DEVICE. CECIL ROBERT HOUSEMAN, Wembley, England, assignor, by mesne assignments, to Air Reduction Company, Incorporated, a Corporation of New York. Filed Jan. 23, 1926, Serial No. 83,232, and in Great Britain Jan. 28, 1925. 1 Claim. (Cl. 261—113.)

An apparatus for use where intimate contact between a gas and a liquid is desired, comprising a receptacle, means mounted in said receptacle to support a body of liquid and to permit the passage of gas therethrough, said means comprising a series of alternately plain and corrugated ribbons, the corrugations in said last mentioned ribbons being angularly disposed, said corrugated



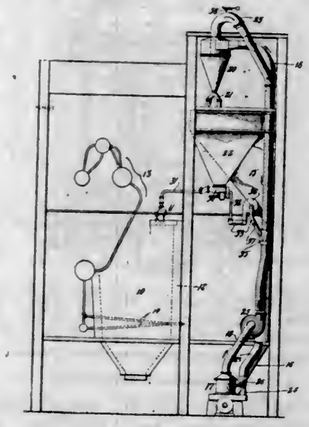
ribbons filling a substantial portion of the space between the plain ribbons, whereby the plain ribbons are maintained in spaced relation and a sufficient surface is provided to maintain a liquid between said strips.

1,677,778. AUTOMATIC FOCUSING OPTICAL-PROJECTION APPARATUS. EDGAR KENNETH HUNTER, London, England, assignor to Johannes Robert Carl August, London, England. Original application filed Sept. 20, 1922, Serial No. 589,365, and in Great Britain Sept. 21, 1921. Divided and this application filed Dec. 18, 1925. Serial No. 76,288. 3 Claims. (Cl. 88—24.)



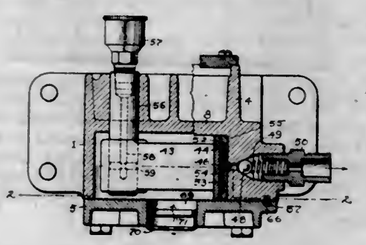
1. An optical projection system comprising an object holder, an image holder, a lens holder, movable mounts for two of said holders, a cam controlling the displacement of one holder in a forwardly progressive direction, a second cam controlling the movement of the other holder, first in a forwardly progressive direction and then in a reverse direction, and means to provide relative displacement between said holders and said cams whilst maintaining the relationship of the three holders according to the Newtonian law of conjugate foci.

1,677,779. MEANS FOR HANDLING AND FEEDING PULVERIZED FUEL. GEORGE P. JACKSON, Flushing, and ARTHUR V. ADAMSON, Hempstead, N. Y., assignors to Combustion Engineering Corporation, a Corporation of New York. Filed June 8, 1923. Serial No. 644,119. 4 Claims. (Cl. 110—104.)



2. The combination with a furnace, of a return-air pulverizing and conveying system, a feeder for the furnace, means for supplying the feeder with pulverized fuel from the system, and a combined means for exhausting air from the return side of the system and for supplying air under pressure to the feeder.

1,677,780. AIR PUMP. JOSEPH F. JAWOROWSKI, Cleveland, Ohio. Filed Dec. 4, 1922. Serial No. 604,708. 1 Claim. (Cl. 230—149.)

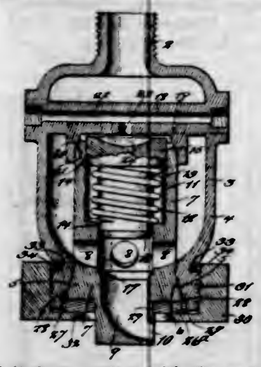


A rotary air compressor, comprising a body having a circular air-compressing chamber open at one side thereof and provided with air intake and discharge ports, a movable cover plate enclosing the open side of said chamber, said body and cover plate having circular registering grooves in their meeting faces, a split spring ring mounted within said grooves, a rolling air-compressing member within said chamber, and a movable abutment extending into said chamber intermediate said intake and discharge ports.

1,677,781. CYLINDER COCK. LAURIE JOYNER, Philadelphia, Pa. Filed June 1, 1927. Serial No. 195,760. 14 Claims. (Cl. 121—134.)

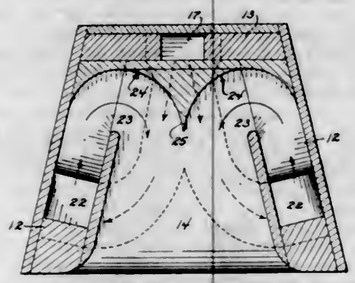
1. A cylinder cock, comprising a casing having a chamber into which the condensation of steam drains, a valve cage with an open ended chamber therein and upstanding within the casing and having a drain passage to carry off the condensation of steam to the atmosphere, said cage having a valve seat, a valve operable in and mounted to

close both ends of said cage chamber, a spring housed in the cage chamber and being free from contact with the steam or foreign matter therein, and associated with the



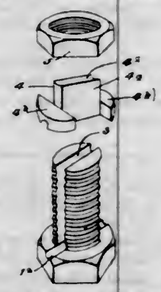
valve to hold it from contact with the seat, and means for permitting the entrance of steam to act upon the top of the valve for closing it against the seat to prevent the escape of steam from the drain passage.

1,677,782. SOUND-AMPLIFYING HORN. JESSE CODY HENDRICKS, Greensburg, Ind. Filed July 20, 1927. Serial No. 207,228. 4 Claims. (Cl. 181—27.)



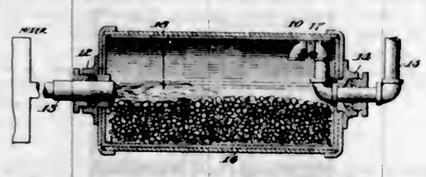
1. A sound amplifier comprising a casing including top, bottom, side and end walls defining a sound outlet chamber open at the front of the casing, said casing having a sound inlet opening, sound passages arranged in the top, bottom, side and end walls of the casing and communicating with one another to provide a continuous sound passage from the sound inlet opening to the sound outlet chamber.

1,677,783. ELECTRICAL CONNECTION. JAMES R. KEARNEY, Kansas City, Mo. Filed Apr. 24, 1922. Serial No. 556,277. 2 Claims. (Cl. 173—259.)



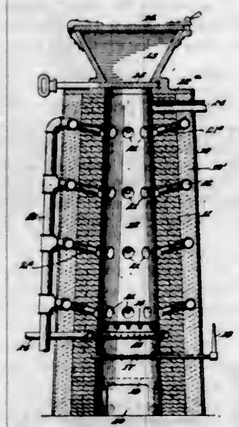
1. In an electrical connection, a member slotted longitudinally, a washer having a diametrical portion fitting in the slot in said member and a portion adapted to extend across said slot, and a securing element fitting over the exterior of said member and removably engaging said washer.

1,677,784. METHOD AND APPARATUS FOR REDUCING MATERIALS BY HEAT. WILLIAM WALLACE KEMP, Baltimore, Md. Filed Nov. 7, 1921. Serial No. 513,442. 18 Claims. (Cl. 202—8.)



15. The herein described process for the treatment of carbonaceous material which consists in forming a mixture, of uniform composition, consisting of combustible material and a supporter of combustion, the proportion of the latter not exceeding that required to effect combustion of the combustible material, burning this mixture in a retort, from which air is excluded, and passing carbonaceous material through the retort and subjecting it during its travel to the action of the heated retort and the direct action of the flame resulting from burning the combustible mixture.

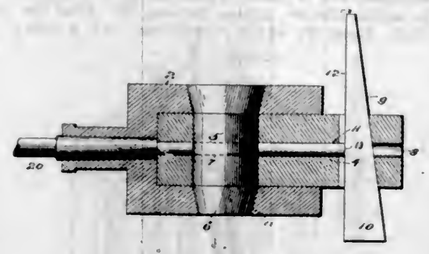
1,677,785. METHOD FOR PRODUCING COMBUSTIBLE GAS. WILLIAM WALLACE KEMP, Baltimore, Md. Filed Nov. 7, 1921. Serial No. 513,444. 7 Claims. (Cl. 48—202.)



1. The method of producing combustible gas from material capable of evolving gas under the action of heat, which consists in charging the gas producing material into a gas generator, preventing the ingress of air into said generator, and heating the material to form gas therefrom by projecting into the generator the flame produced by the combustion of a thoroughly premixed gas and air mixture, the amount of oxygen in which is not in excess of that required to effect combustion of the mixture and is insufficient to produce combustion of the material.

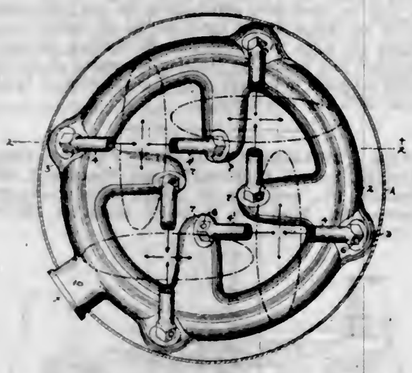
1,677,786. PISTON-REMOVING DEVICE. PATRICK H. KENNEY, Cumberland, Md. Filed Nov. 27, 1925. Serial No. 71,692. 2 Claims. (Cl. 29—86.1.)

1. A piston removing device adapted to be used with a cross-head having a piston secured therein and having wrist pin openings, said removing device including a block member corresponding to the interior dimensions of the cross-head and adapted to seat therein, an anchoring pin adapted to extend transversely through said block and said wrist pin openings to lock the block against longitudinal movement, a plunger movable in said block in longitudinal alignment with said piston, a transverse aperture through said block in spaced parallelism



with said anchoring pin, a wedge member movable in the aperture at right angles to the plunger for coaction therewith, a hammer means carried by the block adapted to contact with said wedge to impart thereto a sudden heavy blow for transmission to said piston through the instrumentality of said plunger to effect removal of the piston from the crosshead.

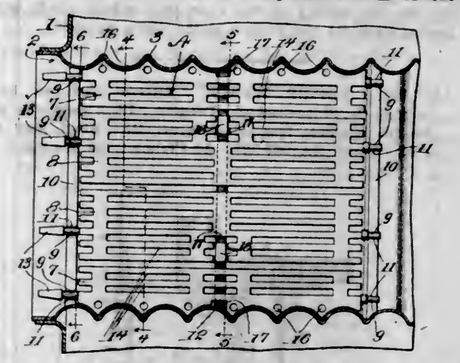
1,677,787. GAS BURNER. HARRY E. KERR, Cleveland, Ohio, assignor to The Cleveland Gas Burner and Appliance Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 30, 1925. Serial No. 59,497. 1 Claim. (Cl. 158—104.)



A gas burner, comprising a circular gas distributing manifold having gas and air commingling tubes extending inwardly from its circumference and companion gas and air commingling tubes extending outwardly from its center portion, said tubes forming pairs of cooperating gas and air commingling tubes, the axes of each pair of said tubes lying in a single plane tangential to a small circle centrally of the manifold.

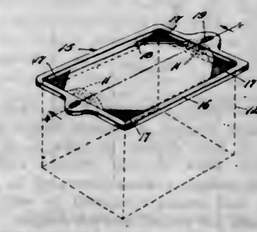
1,677,788. GRATE. WILLIAM A. KNOWLTON, Dorchester, Mass. Filed Mar. 9, 1927. Serial No. 174,077. 2 Claims. (Cl. 126—162.)

1. In combination with a furnace, front and rear cross bars in the furnace, a central cross bar therein, a plurality of grate sections, pintles at the ends of the sections rotatably supported by the front and rear cross bars, each section having flat upper and lower faces and each section being of considerable width, each section having a central opening extending through the top and bottom of the



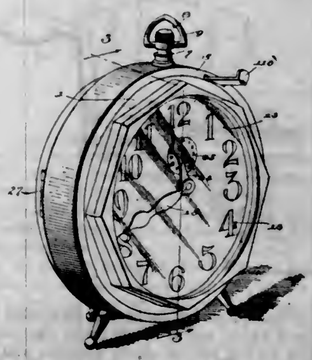
section and from one edge to the axis of the pintles to permit the section to be rocked without interference on the part of the central supporting bar.

1,677,789. BATTERY-BOX CLAMP. CLINTON L. MABEY, Providence, R. I. Filed Aug. 6, 1927. Serial No. 211,105. 3 Claims. (Cl. 180—68.5.)



1. A battery box clamp comprising a rectangular open frame shaped to conform to the contour of the battery box and provided with diagonal corner plates adapted to bear against the upper edges of the battery box at spaced points thereon and having downwardly extending lugs engaging the outer side of the battery box adjacent to the upper edges thereof.

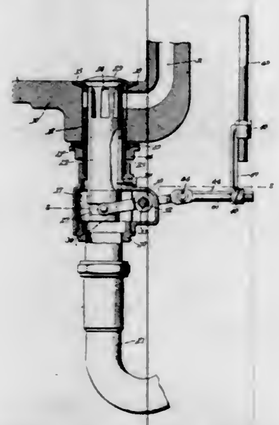
1,677,790. ALARM CLOCK. WILLIAM FRANK MCKINLEY, Little Rock, Ark. Filed Sept. 22, 1923. Serial No. 664,267. 3 Claims. (58—71.)



1. A clock having hour and minute hands, an alarm setting pointer, and setting mechanism comprising gearing adapted to turn the hour and minute hands, gearing

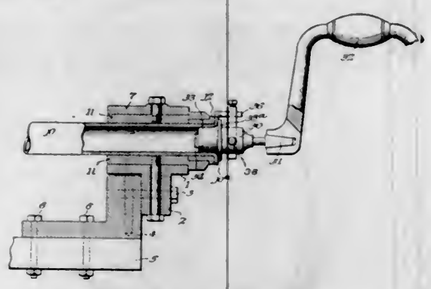
adapted to turn the pointer, an arrangement of movable gears adapted to be shifted to operate either one or the other of the gearings, and a stem adapted to be pulled out for the setting of the hour and minute hands and pushed back for the setting of the alarm pointer.

1,677,791. POP-UP WASTE. PHILIP MUELLER and ANTON C. SCHUERMANN, Decatur, Ill., assignors to Adolph Mueller, trustee, Decatur, Ill. Filed May 8, 1923. Serial No. 637,525. 14 Claims. (Cl. 4—203.)



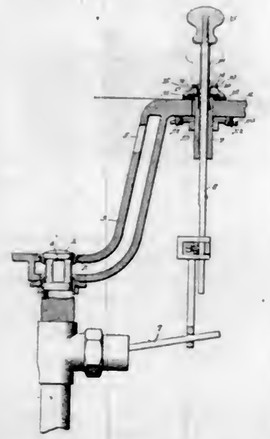
1. The combination in a fitting of the class described, of a tubular waste stopper, a stopper casing into which the lower end of said stopper projects, a stopper fork engaging opposite sides of said stopper and pivotally mounted in said casing, a yoke journaled to both sides of said casing, and means connected to said yoke and engaging said fork for actuating said stopper; said yoke, fork, and their operating means being arranged symmetrically with respect to one another so as to give a uniformly distributed lifting action.

1,677,792. MEANS FOR TRIMMING SOFT-METAL PIPE FLANGES. PHILIP MUELLER and ANTON C. SCHUERMANN, Decatur, Ill., assignors to Adolph Mueller, trustee, Decatur, Ill. Original application filed Nov. 12, 1919, Serial No. 337,499. Divided and this application filed Sept. 26, 1923. Serial No. 664,939. 7 Claims. (Cl. 82—4.)



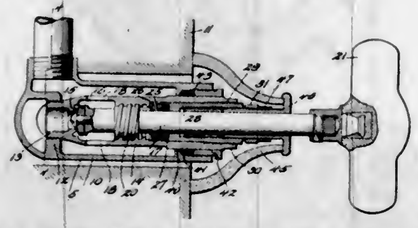
1. An implement for trimming the peripheral edge of a flange formed at the end of a soft metal pipe comprising a stem having an end portion of the diameter and adapted to be positioned within the bore of the flanged end of a pipe and provided with an abutment adapted to contact with the said end of the pipe, and a cutting blade bodily adjustable both radially and longitudinally of the stem and extending across the edge of the pipe flange when the stem is positioned within the pipe with the abutment thereon in contact with the end of the pipe.

1,677,793. ATTACHMENT FOR LAVATORY-OUTLET-VALVE DEVICES. PHILIP MUELLER, LUCIEN W. MUELLER, and WILLIAM J. MIX, Decatur, Ill., assignors to Adolph Mueller, trustee, Decatur, Ill. Filed Oct. 24, 1925. Serial No. 64,571. 10 Claims. (Cl. 4—203.)



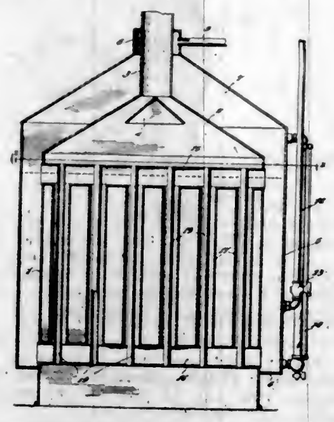
1. The combination with the operating push rod of a lavatory outlet valve having a knob or handle at its outer end, of a guide for said rod adapted to be attached to a suitable support, and having an annular flange about its outer end, an escutcheon surrounding the rod and extending over the flange at the outer end of the guide, means engaging the guide and escutcheon for holding the latter in position, and means for limiting movement of the rod through the guide to prevent contact of the knob or handle thereon with the escutcheon.

1,677,794. BUILT-IN REMOVABLE VALVE. PHILIP MUELLER, ROBERT H. MUELLER, and WILLIAM J. MIX, Decatur, Ill., assignors to Adolph Mueller, trustee, Decatur, Ill. Filed Nov. 20, 1926. Serial No. 149,741. 2 Claims. (Cl. 251—156.)



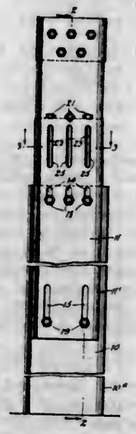
1. A plumbing fixture comprising a valve body provided with inlet and outlet ports and an interior partition between said ports and having a threaded aperture formed therein, a valve casing provided with a valve seat and a threaded section engaging the thread of said aperture in the partition in the valve body, said casing being provided between its outer end and the section engaging the partition with a lateral port and between said port and its outer end with an internal thread, means providing a fluid tight joint between the valve body and said casing, and a valve adapted to cooperate with the valve seat and having its stem extending through the outer end of the casing and provided with a compression thread engaging said interior thread in the casing, whereby the valve casing and valve may be removed from the body as a unit, for the purpose described.

1,677,795. BOILER FOR STILLS. ERNON V. OLIVER, Portland, Oreg. Filed June 4, 1927. Serial No. 196,558. 4 Claims. (Cl. 122—174.)



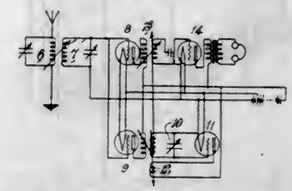
1. A still comprising a hollow body defining a heating chamber and having its upper end provided with an outlet, a water jacket disposed about said body and having its upper portion provided with a steam outlet, upper and lower water tubes extending transversely through said body and having open ends secured in openings formed in the walls of the body and communicating with said water jacket, water tubes extending vertically between and communicating with said upper and lower tubes, and open-ended conduits for a heating medium extending longitudinally through the vertical water tubes with their end portions extending transversely through the upper and lower water tubes and communicating with the upper and lower portions of said chamber.

1,677,796. YIELDABLE SUPPORT. ROLAND DANE PARKS, Lake Linden, Mich. Field Feb. 18, 1926. Serial No. 89,124. 4 Claims. (Cl. 248—2.)



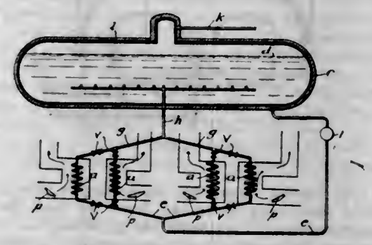
1. A support of the class described including an I-beam, spaced oppositely facing channel members straddling the I-beam and mounted for limited sliding movement relative thereto, a metallic element adapted to be strained, normally blocking sliding movement of the channel members relative to the I-beam, and means carried by the channel elements acting on the member to be strained to distort the same and render the same inoperative when excessive loads are imposed on the channel members.

1,677,797. SYSTEM OF RECEPTION FOR MODULATED-WAVE TELEGRAPHY AND TELEPHONY. ERNEST YEOMAN ROBINSON, Withington, England. Filed Mar. 19, 1923, Serial No. 626,140, and in Great Britain Mar. 28, 1922. 6 Claims. (Cl. 250—20.)



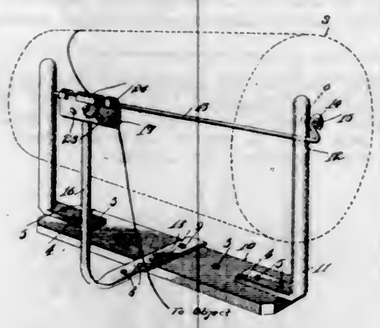
1. In a communication system in which a carrier wave of constant frequency is partially modulated by audio frequency currents and the original full carrier wave and at least one of the side band components of the resulting complex oscillations transmitted, the method of reducing distortion in and increasing the efficiency of the demodulation at the receiver, which comprises receiving the original wave components as transmitted, increasing the amplitude of the transmitted carrier wave component relative to that of a side band component while maintaining substantially constant the amplitude relationship of the various frequencies of said side band component, and finally effecting de-modulation of the oscillations thus modified.

1,677,798. STEAM PLANT. JOHANNES RUTHS, DJURSHOLM, Sweden, assignor to Aktiebolaget Vapor-Ackumulator, Stockholm, Sweden, a Corporation. Filed Apr. 27, 1923, Serial No. 635,143, and in Sweden June 16, 1922. 2 Claims. (Cl. 122—35.)



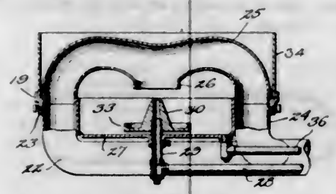
1. A steam generator comprising a plurality of water tube boilers, conduits connecting said boilers for parallel operation, a common supply pipe and a common discharge pipe for said boilers connected to said conduits, independent fires for each of said boilers for separately generating steam therein, a well-insulated storer comprising a large receptacle having a water content of sufficinet capacity to permit firing of the boilers independently of variations of steam demand and to permit storing of surplus steam by rise of pressure, said storer being in open unrestricted communication with said common supply and discharge pipes, a discharge device in the water space of said storer connected to said common discharge pipe, means to conduct water from said storer to said common supply pipe, and means for taking out dry steam from said storer.

1,677,799. TWINE HOLDER. ROSARIO SALVAGGIO, New Orleans, La. Filed July 28, 1927. Serial No. 209,084. 1 Claim. (Cl. 242—142.)



In a device of the character described a flat elongated base, vertical arms rising from the ends thereof and having right angular extensions at their lower ends which extend longitudinally of the upper face of the base and are detachably secured thereto, a roll supporting mandril removably supported by the arms and disposed below the upper ends thereof, a vertically disposed cutter carrying arm arranged in advance of the base and roll supported on the mandril and having a right angular extension at its lower end detachably secured to the base, and a cord cutting element attached to the upper end of the last mentioned arm and lying below the highest point of such roll whereby to obviate danger of sharp edges contacting with the person of one using the device.

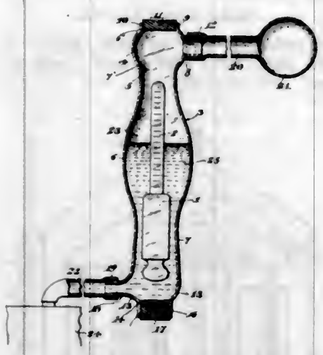
1,677,800. OIL BURNER. OSCAR JAMES SEE, Peoria, Ill. Filed Jan. 17, 1927. Serial No. 161,646. 1 Claim. (Cl. 158—91.)



An oil burner apparatus comprising a platform, a manifold comprising upper and lower sections, the lower section being supported upon the platform, one end of the section being offset, an elbow carried by the lower section being projected in parallelism with the end thereof, the upper section being adapted for connection with the end of the lowermost section and the elbow, the upper section being provided with an opening therein, a burner disposed in juxtaposition to said opening, and a burner ring carried by the platform and surdounding the manifold adapted to reflect heat from the burner upon the manifold to cause the heating of the air.

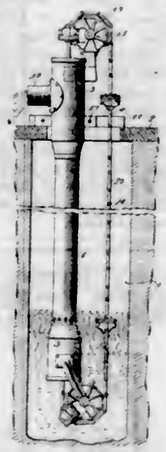
1,677,801. HYDROMETER. FRANK E. SODE, Chicago, Ill. Filed Nov. 1, 1926. Serial No. 145,498. 10 Claims. (Cl. 265—45.)

1. A hydrometer for the purpose set forth comprising a transparent tube having each end thereof closed by an imperforate resilient plug, a meter element arranged within the tube, said tube provided in proximity to one end with means disposed at right angles thereto for connecting a suction feeding device therewith and in



proximity to its other end with means disposed at right angles thereto for establishing communication between the interior of the tube and a liquid supply.

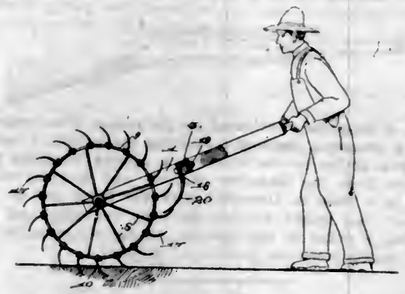
1,677,802. WELL PUMP. JAMES F. STRUBLE, Hutchinson, Kans. Filed Aug. 16, 1927. Serial No. 213,379. 11 Claims. (Cl. 103—73.)



1. In a pump, a cylinder having an upper suction section of one diameter and a lower section of greater diameter converging into a junction with said upper section, a piston having suction-creating packing arranged to engage the walls of the suction section, means for moving said piston upwardly from the lower section into the suction section, and means located adjacent to the junction of the two cylinder sections for relieving the compression between the piston and the converging walls of the lower section adjacent to said junction point.

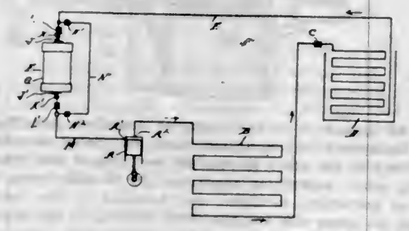
1,677,803. CULTIVATOR, WEEDER, AND DIGGER. ALBERT R. TENGER, Marshfield, Oreg. Filed May 10, 1926. Serial No. 108,089. 1 Claim. (Cl. 97—59.)

A machine of the character described comprising a frame, a wheel rotatably mounted on the frame and having a rim, a plurality of earth-working elements mounted on the rim, each earth-working element including a transversely extending plate having spaced lugs engaging the



opposite sides of the rim, a bolt and nut for fastening the plate to the rim, and a plurality of curved earth-working prongs mounted on each plate.

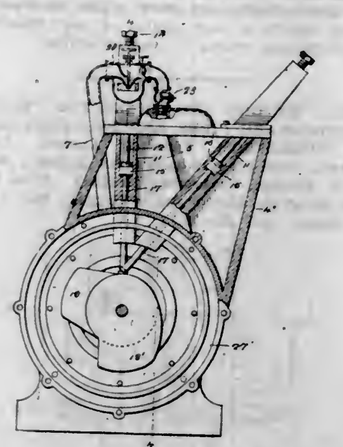
1,677,804. GAS SCRUBBER FOR REFRIGERATING APPARATUS. ALLAN C. THAYER, Detroit, Mich., assignor to Ubald R. Loranger, Detroit, Mich. Filed Jan. 29, 1923. Serial No. 615,672. 8 Claims. (Cl. 62—115.)



1. The combination with a system for circulating a refrigerating medium, of means for removing corrosive impurities produced by the chemical action of said medium during the circulation thereof, said means being so arranged in said system that all of the medium in normal circulation comes into contact therewith.

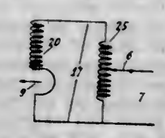
1,677,805. ROTARY MOTOR. HARLEY D. WEED, Garvin, Minn., assignor of twelve and one-half per cent to H. K. Kvanbeck and twelve and one-half per cent to Jacob Kvanbeck, Minnesota, Minn., and seven and one-half per cent to Alfred Mattson and seven and one-half per cent to David Mattson, Taunton, Minn. Filed Aug. 24, 1923. Serial No. 659,180. Renewed Feb. 21, 1928. 1 Claim. (Cl. 60—44.)

A rotary motor comprising a casing having an extension, a cylinder in the casing and a combustion chamber in the extension, a carbureter, means for connecting its outlet to the combustion chamber, the cylinder having a pair of ports in its upper part, one of which connects the combustion chamber with the cylinder, means for connecting the other port with the inlet end of the carbureter, the lower part of the cylinder having a combined inlet and exhaust port therein, a rotor in the cylinder, a piston therein arranged to close the ports as it passes over the same, a sliding abutment in the casing and arranged between the upper ports which are connected respectively with the carbureter and the combustion chamber, said abutment engaging the rotor, a sliding valve for controlling the port leading to the combustion chamber, cams connected with the rotor, means associated with the abutment and valve and operated by the cams for raising the abutment to permit the piston to pass the same and for lifting the valve as soon as the port leading to the combustion chamber



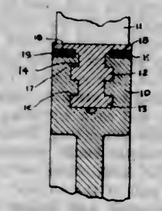
is partly uncovered by the piston and means for firing the charge in the combustion chamber just before the valve is opened.

1,677,806. ELECTRIC PHONOGRAPH CIRCUIT. JULIUS WEINBERGER, New York, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed July 21, 1925. Serial No. 44,986. 5 Claims. (Cl. 179—100.1.)



4. In combination, a variable groove device, means for following variations, a movable armautre connected therewith, a coil surrounding the armature, transmission means from the coil, and inductive current controlling means connected to the transmission means having a definite known inductance relative to the coil for producing maximum output efficiency therefrom and for varying the intensity of electrical oscillations produced by the coil, whereby a constant voltage ratio exists between the coil and the controlling means irrespective of frequency.

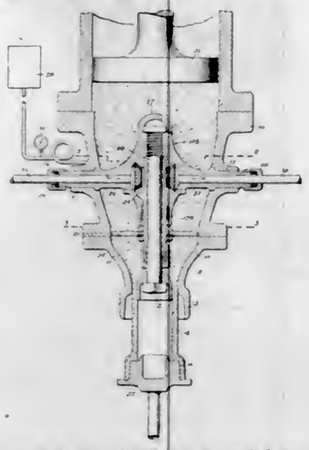
1,677,807. BLADE FASTENING. WALTER WESSEL, Lester, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 4, 1925. Serial No. 66,829. 3 Claims. (Cl. 253—77.)



1. In an axial flow turbine, the combination of a blade holding disc, a blade mounted thereon, one of said elements having a slot formed therein and the other

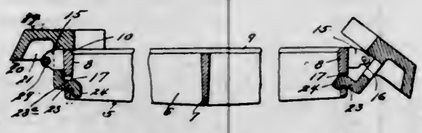
element having a portion disposed within said slot and interlocking with said slotted element, and a screw threaded between meeting faces of the free end of the slotted section and of the other section, said screw terminating outside of that portion of said other section which is disposed within the slotted section.

1,677,808. METHOD AND MEANS FOR PRODUCING EARTHENWARE PIPES AND PRODUCTS RESULTING THEREFROM. FEDERICO ALASSIO, JUAN B. ALASSIO, TOMÁS ALASSIO, SERAFIN ALASSIO, and FLORENCIO ALASSIO, Paysandu, Uuruguay. Filed Oct. 29, 1925, Serial No. 65,550, and in Uruguay Mar. 12, 1925. 27 Claims. (Cl. 25—15.)



1. In a method of making an extruded article from plastic material, the steps of advancing said material under pressure, subdividing the material while under pressure, bringing the portions resulting from the subdivision together while maintaining the material under pressure and in addition to giving said material the said advancing movement, subjecting said material to a displacing movement in a circular direction in a plane transverse to the advancing movement prior to the extruding of the article.

1,677,809. GRATE. LEO J. BINDER, Spokane, Wash. Filed Mar. 10, 1926. Serial No. 93,690. 3 Claims. (Cl. 126—180.)



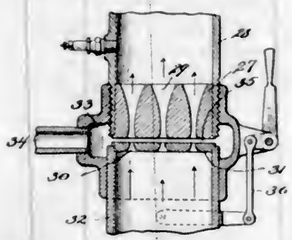
1. A grate unit comprising a support with end walls integrally formed therewith and having slots extending through the lower portions thereof above the lower terminals of the said walls, grate sections mounted on the support, and end cap sections fitting over and enclosing the ends of the support, the ends of the support having upper outwardly projecting arms at opposite sides above the slot of each wall and each enclosing end cap section having an intermediate depending flange terminating at its lower end in a right angle projecting lip with a depending terminal of hook form to pass through the slot of the adjacent wall of the support and bear against the lower portion of said wall below the slot therein, the upper portion of the flange of the cap section being provided with slots on opposite sides of the center to receive the projections of the support.

1,677,810. MAGAZINE FOR AIR GUNS. RICHARD T. BOND, Stringtown, Okla. Filed July 15, 1927. Serial No. 206,054. 6 Claims. (Cl. 124—11.)



1. A magazine attachment for pneumatic rifles comprising a magazine chamber containing the pellets, a pellet feeding device in the form of a shuttle receiving the pellets from the magazine chamber and carrying them one at a time to alinement with the inner end of the barrel, and means for automatically engaging and releasing a pellet in the chamber on the reciprocation of the shuttle from one position to another.

1,677,811. GAS BURNER. WILLIAM SPENCER BOWEN, Westfield, N. J. Original application filed Apr. 11, 1924, Serial No. 705,919. Divided and this application filed Sept. 21, 1927. Serial No. 221,034. 10 Claims. (Cl. 158—99.)



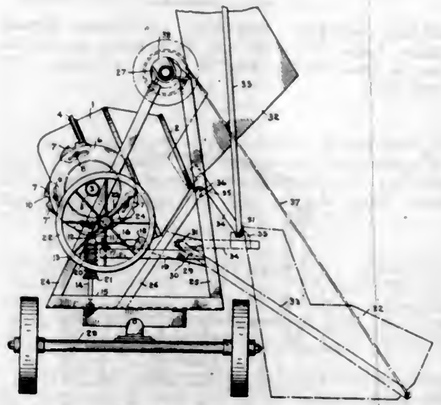
9. An apparatus of the character described, including two superposed and separated tubes, one being movable relatively to the other to regulate the area of the intervening space, means for supplying gas at said space, a pair of perforated members, one mounted in the lower end of the upper tube and the other mounted in the upper end of the lower tube, means for moving said tubes to vary the space between said perforated members, and an ignition means mounted in the upper tube.

1,677,812. UNDERREAMER. CHARLES H. BROWN, Breckenridge, Tex. Filed Oct. 7, 1925. Serial No. 61,119. 9 Claims. (Cl. 255—78.)



6. In combination with a body, a collapsible cutter structure carried thereby, means controlling the movement of the cutters comprising a plunger having expansible engagement with said cutters, a stationary block carried by the body, and a movable block having a plurality of inclined walls for operative engagement with the well casing and having a yieldable connection with said plunger for giving movements thereto.

1,677,813. CONCRETE MIXER. JAMES E. BUSHNELL, North Plainfield, N. J., assignor to Ransome Concrete Machinery Company, Plainfield, N. J., a Corporation of New Jersey. Filed Oct. 20, 1926. Serial No. 142,825. 18 Claims. (Cl. 83—73.)



1. In a mixing apparatus, the combination with a mixing vessel having a charging opening and mounted to rotate and to have tilting movement to charging and discharging positions, of a charging device, a plurality of pivots on which said charging device is mounted to swing from lower to upper position, one of said pivots being independent of the remaining pivot.

1,677,814. SAFETY SNAP HOOK. OTIS R. CLOSE and ROY N. CLOSE, Carterville, Mo. Filed Jan. 23, 1928. Serial No. 248,753. 4 Claims. (Cl. 24—233.)



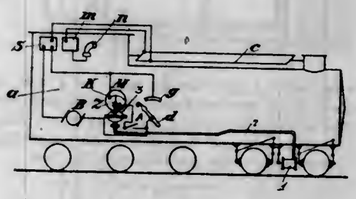
1. A hook having a nose and a shank, a tongue engageable with the nose, a heel being part of the tongue and having a recess, a housing on the shank receiving the heel, a pivotal mounting for the heel within the housing, and a spring seated between the recess and a portion of the housing.

1,677,815. BROACH. HIRAM D. CROFT, Springfield, Mass., assignor to Perkins Machine and Gear Company, Springfield, Mass., a Corporation of Massachusetts. Filed Sept. 20, 1927. Serial No. 220,656. 3 Claims. (Cl. 90—33.)



1. A broach having a plurality of series of finishing and roughing cutters arranged in offset stepped relationship, at least one of said series having a finishing and a roughing cutter in longitudinal alignment, and at least one other of said series comprising a single roughing cutter laterally placed relative to said finishing cutter, each successive series decreasing in length, and spaces between cutters of the same series to allow for indexing the work, whereby it is possible to reduce in length the strokes of the broach, after the first stroke thereof, for the performance of a given amount of work.

1,677,816. RAILWAY SIGNAL APPARATUS. WERNER DAYA, Berlin-Halensee, Germany. Filed Nov. 18, 1926, Serial No. 149,216, and in Germany Nov. 24, 1925. 23 Claims. (Cl. 246—30.)

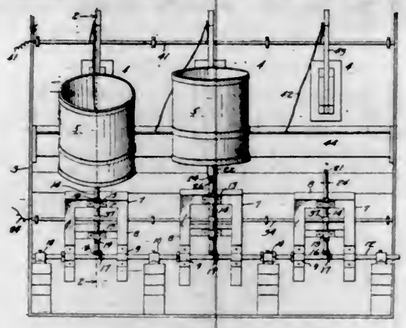


1. In a railroad vehicle, the combination with the vehicle brakes, of a manually operable brake control lever, pressure operated means for automatically applying the brakes in emergency, a radio receiver of signals, a radio transmitter of signals, a circuit for energizing the transmitter, a contact switch included in the circuit arranged to be closed by the brake control lever, and means for energizing and de-energizing the transmitter dependent upon the pressure operated means.

1,677,817. APPARATUS FOR ELECTROPLATING AND THE LIKE. JOSEPH DE VERRE, Oakland, Calif. Filed Jan. 26, 1923. Serial No. 614,975. 6 Claims. (Cl. 204—11.)

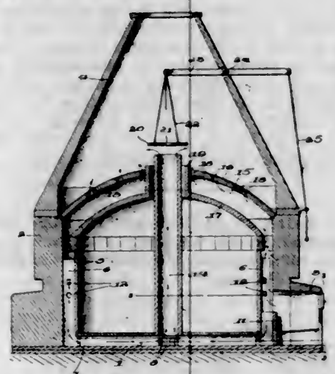
5. In an apparatus of the character described, a rotatable plurality of supports, containers adapted to be mounted on said supports for rotation therewith and arranged to have anode and cathode members associated

therewith, means operable entirely by and upon a relative displacement of said containers and supports to connect them for or release them from rotative engagement,



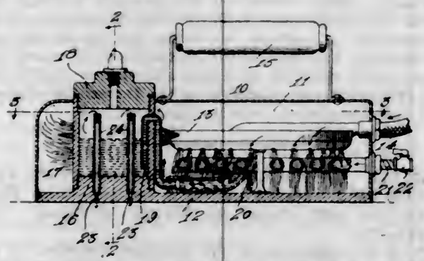
and means arranged to hold one of said members connected to a source of current during the rotation of its support.

1,677,818. UP-DRAFT PROCESS OF AND MUFFLE KILN FOR FIRING. THOMAS DOWNS, Somerset, N. J. Filed Jan. 25, 1927. Serial No. 163,479. 9 Claims. (Cl. 25—144.)



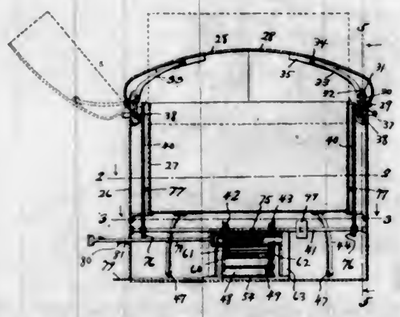
1. The method of kiln drying ware in a kiln including circulating air upward about the sides and over the crown of the kiln, circulating air beneath the kiln and upward therethrough, and regulating and controlling the relative circulations about and through the kiln.

1,677,819. STEAM PRESSING IRON. JACOB FAUST, Passaic, N. J. Filed Sept. 24, 1926. Serial No. 137,546. 2 Claims. (Cl. 68—26.)



1. A pressing iron comprising a hollow body having a heating element arranged therein, a cylindrical steam generating chamber arranged in juxtaposition to said heating element, the walls of said steam generating chamber being subjected to the heat from said heating element, steam outlet ducts leading from the pressing face of the iron to the interior of said steam generating chamber and opening into the same adjacent the top thereof, a water pipe extending downward into said steam generating chamber and terminating short of the bottom thereof, a pipe coil connected with said water pipe and disposed adjacent said heating element, a hose leading from said pipe coil to a suitable water supply, and means for controlling the flow of water from said water pipe, substantially as and for the purpose specified.

1,677,820. NOVELTY HOLDER. INEZ MERCY FOSTER, Simla, India. Filed Feb. 20, 1926, Serial No. 89,803, and in Great Britain Feb. 26, 1925. 4 Claims. (Cl. 220—36.)



1. In a device for the purpose set forth, a compartment, hinged doors normally closing the compartment, pivotally mounted arms in the compartment contacting with the doors, and said arms having segmental teeth at their pivoted ends, worm wheels journaled in the compartment and in mesh with said teeth, a receptacle in the compartment, and motor operated means for imparting a vertical movement to the receptacle and for turning the worms to swing the arms to cause the doors to open and close when the receptacle is being raised or lowered.

1,677,821. BRICK-MASON'S GAUGE. ANDREW O. GRAHAM, Fort Worth, Tex. Filed June 4, 1924. Serial No. 717,787. 3 Claims. (Cl. 33—111.)



1. A bricklaying gauge having a series of groups of scale marks thereon, the marks of each group being consecutively indicated, corresponding marks of the several groups being successively equi-distantly spaced throughout the length of the gauge, one end of the gauge constituting an abutment end for disposal against a surface from which measurements are to be taken, the first scale mark of the group adjacent the abutment end of the first group being spaced from said end a distance equal to the distance between the first marks of the several groups.

1,677,822. HEEL BLOCK AND METHOD OF FORMING THE SAME. NICHOLAS L. GULLIFORD, Peabody, Mass. Filed Feb. 2, 1927. Serial No. 165,386. 17 Claims. (Cl. 144—309.)

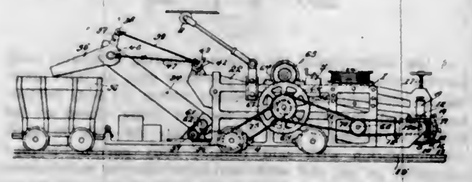


1. As a new article of manufacture, a heel block having a concave front face constituting the breast of a heel and a rear convex surface describing a curve substantially coinciding with that of said front concave face.

1,677,823. POLYHYDROXY-MERCURY COMPOUND. HEINRICH GÜNZLER and OSKAR NEUBERT, Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Filed May 5, 1927, Serial No. 189,173, and in Germany Jan. 20, 1926. 3 Claims. (Cl. 167—6.)

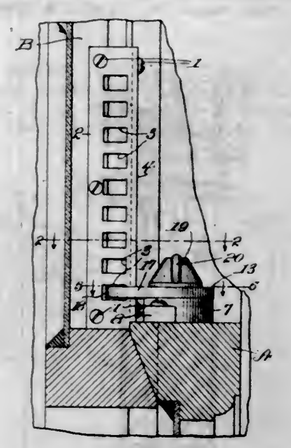
2. As an insecticide and fungicide, the reaction product of a polyhydroxy compound of the benzene series with a water-soluble mercury salt which reaction product is a stable material readily soluble in water and has a strong disinfecting action.

1,677,824. COAL-LOADING AND TRACK-CLEANING MACHINE. HENRY H. HARRISON, HOWARD W. ALLENDER, and RICHARD L. FOUT, Thomas, W. Va. Filed Oct. 27, 1926. Serial No. 144,517. 4 Claims. (Cl. 37—190.)



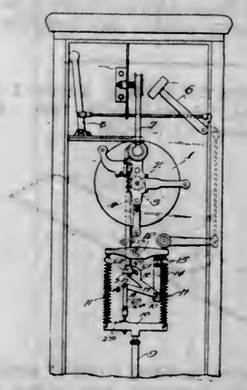
1. In a device for the purpose set forth, an electrically operated wheeled truck designed to travel on a mine track and to have a mine car coupled thereto, a digger wheel at the forward end of the truck and between the sides thereof, said wheel having a longitudinal series of spaced hook-shaped blades, a substantially U-shaped mount for the shaft of the digger wheel, guided in a bearing opening in the sides of truck frame, spring means influencing the mount in one direction, hand operated means between the truck and mount for influencing the latter in a second direction, a hingedly supported scoop at the rear of the mount having an outer widened portion and projecting ends which are received on the ends of the shaft for the digger wheel, said scoop having openings in the outer portion thereof disposed opposite the rails of the track, cross sectionally U-shaped guards covering said openings, an upwardly inclined endless conveyor at the rear of the scoop, an outwardly inclined endless elevator at the delivery end of the conveyor, a chute at the delivery end of the elevator arranged over the mine car, and means actuated by the motor for simultaneously imparting motion to the digger wheel, the conveyor and the elevator.

1,677,825. SASH FASTENER. ALPHEUS M. HUNT, McKeesport, Pa. Filed Nov. 30, 1927. Serial No. 236,802. 4 Claims. (Cl. 292—240.)



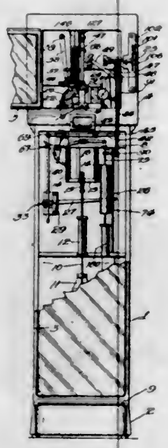
1. A sash fastener of the character described comprising a keeper member, a base plate formed with slots, a latch member mounted for rotary and slidable movement on said base plate, an operating handle, means secured to said operating handle and arranged in said latch member for moving the same, and means depending from said latch member and movable in said slots for locking the latch member in open and closed positions.

1,677,826. ATTACHMENT FOR WEIGHT-RECORDING SCALES. GUSTAV F. HOCHRIEM, Chicago, Ill., assignor to Rhodes-Hochriem Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 15, 1926. Serial No. 81,385. 4 Claims. (Cl. 265—9.)



1. In a scale, a rack bar and a weight indicating mechanism actuated thereby, a load-receiving mechanism, a link and a pivot therefor connected to the load-receiving mechanism, an arm and a fixed pivot therefor, and pins on said arm, one of said pins connected to said link and the other pin being caused to contact the lower end of the rack bar, said lower end of the rack bar being sufficiently wide to contact with said contacting pin throughout its movements.

1,677,827. COIN-CONTROLLED TICKET PRINTING AND DELIVERING SCALE. GUSTAV F. HOCHRIEM, Chicago, Ill., assignor to Rhodes-Hochriem Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 11, 1926. Serial No. 93,981. 4 Claims. (Cl. 194—47.)



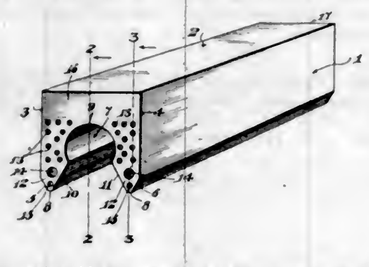
1. In a ticket-printing and delivering weighing scale, the combination with a frame, movable platform and associated weighing mechanism parts, of a vertically disposed printing wheel actuated by the weight of a person on the platform, a vertically disposed ticket magazine above the plane of the printing wheel, means for feeding the bottom ticket from the stack in the magazine to the top of the printing wheel, a printing hammer arranged to fall upon a ticket at the top of the printing wheel and associated inking mechanism, means including coin operated tripping mechanism for actuating the printing hammer and ticket-feeding mechanism, and means for preventing complete ejection of the printed ticket co-operatively associated with a manually operated handle adapted to be manipulated to restore the weighing mechanisms to normal position and completely eject the ticket.

1,677,828. COTTON-TIE SPLICE. PEYTON L. HOWLETT, Brownwood, Tex. Filed Jan. 21, 1928. Serial No. 248,430. 1 Claim. (Cl. 24—20.)



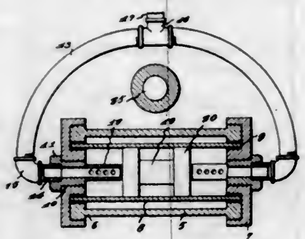
A cotton tie splice, including a pair of sections exactly alike but reversely positioned, each section having its end of general compound curvature whereby one edge of the section is longer than the other, a tongue bent at right angles to each section and located at the shorter edge thereof, said sections having longitudinal slots therein adjacent their longer edges, said slots having their ends in approximate alinement with the ends of the tongues and said tongues having their edges curved or rounded, the tongue of each section being projected through the slot of the other section and bent flat against the section to lock the sections together.

1,677,829. PAVEMENT. CLARENCE H. JACK, Versailles, Pa., assignor to Layton Fire Clay Company, McKeesport, Pa. Filed Mar. 3, 1927. Serial No. 172,368. 6 Claims. (Cl. 94—13.)



1. A paving block comprising a body portion formed with a lengthwise extending groove in its bottom, said groove being of key-hole shape in cross section, the lower part of the wall of said groove being oppositely flared to provide the lower portion of the blocks with tapered parts, said body portion at each side of said groove formed with lengthwise extending openings.

1,677,830. LOW-WATER ALARM. GEORGE WILLIAM KELLER, Portsmouth, Ohio. Filed July 16, 1924. Serial No. 726,381. 1 Claim. (Cl. 122—504.2.)

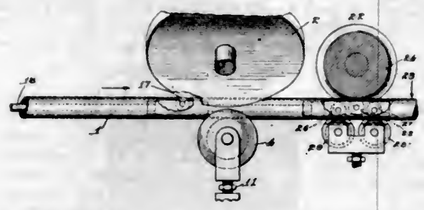


A low water signal for boilers including a tubular body portion closed at its end and provided with an inlet opening, an expansible tubular member within the body portion and spaced therefrom, said member being closed at its ends and having a port intermediate its ends in open communication with said tubular body portion, a pipe connected at one end with said inlet opening and having its other end open and adapted to extend into the water space of a boiler below the normal water level thereof, said pipe acting to conduct steam to said body portion upon a drop in water level below said open end, a spool-shaped valve disposed in said tubular member having its heads positioned on opposite sides of said lateral port and normally in sealing engagement with the walls of the expansible tubular member to close communication between said port and the ends of said tubular member, and pipe connections leading from the ends of said tubular member to direct steam to a signal when the expansible tube expands upon being subjected to steam.

1,677,831. PROCESS FOR THE CHLORINATION OF METHANE. ERICH KRAUSE, Constance, Germany, assignor to the Firm of Holzverkohlungs-Industrie Atkiengesellschaft, Constance, Baden, Germany, a Corporation of Germany. Filed Jan. 6, 1923, Serial No. 611,181, and in Germany Mar. 27, 1922. 4 Claims. (Cl. 260—162.)

1. In the process of chlorinating methane, the step which comprises reacting methane with antimony pentachloride.

1,677,832. ELECTRIC WELDING OF LONG SEAMS. JOHN F. LAWSON, Brooklyn, N. Y. Filed June 7, 1924. Serial No. 718,434. 6 Claims. (Cl. 219—6.)



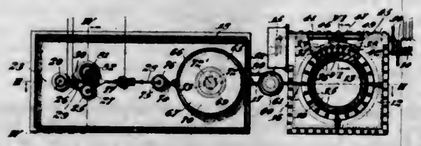
1. The method of electrically welding a long seam by causing an alternating electric current to enter and leave the work through a relatively short length of the work and to flow across the seam while the seam is passed lengthwise through the current path and pressure is exerted on the heated seam edges to cause them to weld, characterized by causing the seam edges to be brought together into current carrying contact so far in advance of the point where the weld is completed and by causing the heating current to flow through such a wide path in advance of the point where the weld is completed, that the seam edges are heated to incandescence for a distance in advance of the point where the weld is completed at least equal to the distance the seam travels during the passage of three current impulses across the seam, and the welding is begun at least about the same distance in advance of the point of its completion and is carried on progressively up to the point of completion.

1,677,833. LAMINATED CAGE FOR ANTIFRICTION BEARINGS AND ART OF MANUFACTURING SUCH CAGES. ANDREW H. LINDE, Philadelphia, Pa., assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa., a Corporation of Delaware. Filed Feb. 18, 1927. Serial No. 169,160. 5 Claims. (Cl. 308—201.)



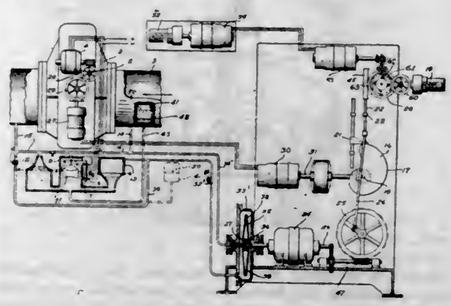
1. A spacing cage for anti-friction bearings consisting of a body portion formed of super-imposed permanently united layers and folded, presenting two plates disposed face to face and provided at intervals in their edges with open notches, and having flanges extending outwardly from the layers at the notches laterally beyond the faces of the plates and constituting conjointly ball holding sockets.

1,677,834. METER. GARRETT B. LINDERMAN, Jr., Bethlehem, Pa., assignor, by mesne assignments, to American Meter Company, Incorporated, New York, N. Y., a Corporation of Delaware. Filed Aug. 14, 1923. Serial No. 657,344. 50 Claims. (Cl. 73—167.)



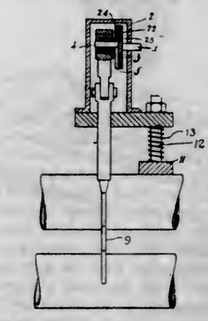
1. In a gas meter, the combination of a valve having an adjustable orifice, means responsive to a change in differential pressure across the orifice for adjusting the size of the latter, and means responsive to a change in specific gravity of gas flowing through the main for controlling said size adjusting means to neutralize the effect of a change in differential pressure due to variation in specific gravity of the gas.

1,677,835. METER. GARRETT B. LINDERMAN, Jr., Erie, Pa., assignor to American Meter Company, Incorporated, New York, N. Y., a Corporation of Delaware. Filed Mar. 4, 1926. Serial No. 92,138. 12 Claims. (Cl. 73—167.)



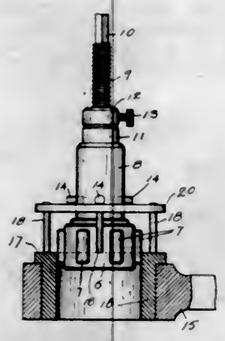
1. In a flow meter, the combination of a main for fluid, a valve therein having a variable orifice, valve actuating means, means responsive to variation in differential pressure across said orifice for effecting operation of said valve actuating means, means communicating with the main and with said operation effecting means for continuously transmitting to the latter a fluid pressure different from that in the main and variable in response to variations in density of the fluid in the main and means responsive to variations in said continuously transmitted pressure for neutralizing the effect upon said operation effecting means of variations in differential pressure across the orifice due to variations in density of the fluid.

1,677,836. APPARATUS FOR CLEANING BOILER TUBES. JOHANNES PETER MARTINUSSEN, Copenhagen, Denmark. Filed Apr. 21, 1925, Serial No. 24,886, and in Denmark Apr. 25, 1924. 3 Claims. (Cl. 15—104.04.)



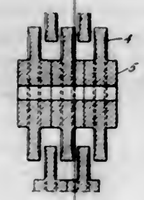
2. A tool for cleaning boiler tubes arranged so that each group of four are spaced at the corners of a rectangle, comprising a hammer head of substantially cross shape having four surfaces of quadrant curvature adapted to engage the surfaces of four tubes to simultaneously clean one quarter of each, a drive shaft, a disc thereon, a pin adjustably positioned on one face of said disc and a connecting rod joining said pin and head so that the movement of said head may be adjusted in accordance with the pitch of said tubes.

1,677,837. ALIGNING DEVICE. GRAVES R. MAUPIN, Moberly, Mo., assignor to The J. Faessler Manufacturing Company, Moberly, Mo., a Copartnership composed of John W. Faessler, Christinia Faessler, Louis E. Faessler, and Graves R. Maupin. Filed Jan. 24, 1927. Serial No. 163,211. 5 Claims. (Cl. 29—90.)



2. In an aligning device comprising the combination with a finishing tool having radial projections, of a table provided with means for supporting the same at right angles to the axis of a cylindrical bearing, said table adapted to support said radial projections and having a central bore and cutaway portions, through which said projections may pass whereby said table can be removed from the finishing tool after the same has been inserted in said bearing.

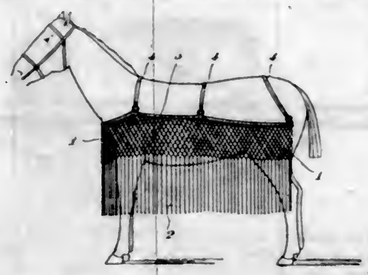
1,677,838. SIZING APPARATUS FOR COKE OR THE LIKE. ADOLF GUSTAF MOLIN, Stockholm, Sweden. Filed Dec. 9, 1926. Serial No. 153,654, and in Sweden Feb. 3, 1926. 1 Claim. (Cl. 209—104.)



Sizing apparatus for coke and the like comprising a number of parallel shafts rotating in the same direction, said shafts having discs attached thereto in such a manner that the discs of adjacent shafts overlap one another, characterized by the fact that the edges of the discs are slightly and in a continuous manner sinuously shaped at the same time as the discs are tapering from the edge toward the hub, in order that the openings at the hubs of the sizing apparatus may in axial as well as radial direction be slightly larger than the axial distance between the edges of adjacent discs, so as to facilitate the passage of that part of the material which passes between the edges of adjacent discs and which material otherwise would tend to clog up the sizing openings of the apparatus.

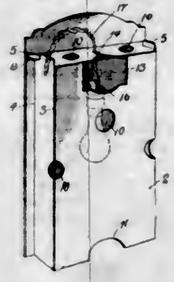
1,677,839. FLY NET FOR HORSES. ADRIEN MONTELS, Buenos Aires, Argentina. Filed Aug. 15, 1927. Serial No. 213,032. 1 Claim. (Cl. 54—81.)

A fly net for horses, comprising a net formed of a comparatively narrow net-work portion, and a plurality of threads depending from the lower edge of the net-work portion, the said threads being of a length greater than the width of the net-work portion, the net being provided at its upper edge with a reinforcing band, and with a



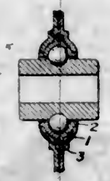
plurality of adjustable bands secured to the reinforcing band and adapted to pass over the back of the horse and hold the net at the sides of the horse.

1,677,840. DISPLAY DEVICE. LOUIS MOSES, Brooklyn, N. Y. Filed Oct. 27, 1927. Serial No. 229,098. 3 Claims. (Cl. 40—132.)



1. A device of the character described, including a front member, a supporting back member secured thereto, and a top member movable on the back member and functioning to lock the back member in holding position, said back member having an opening therein through which an electric lamp may be projected and said top member having a recess therein in which the wires to the lamp may be wedged to support the lamp.

1,677,841. METHOD OF MAKING BALL-RACE ELEMENTS. BUDD G. NICE, Ogontz, Pa., assignor, by mesne assignments, to John L. McMichael, trustee, Philadelphia, Pa. Filed Jan. 18, 1923. Serial No. 613,488. 1 Claim. (Cl. 29—148.4.)



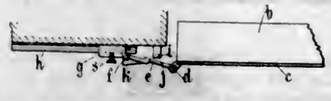
The method of making ball race elements in two stages and at one operation from metal blanks of flat ring form which consists in displacing the inner rim part of the blank laterally out of the plane of the outer rim part and into flaring form and in flanging and stretching the inner rim part of the flaring portion into neck form by pressure

applied to the portion of the face of the blank which lies between the rim of the hole and the margin of the blank while the outer part of the blank is confined and while the inner part of the blank is unconfined, and pressing the flaring portion of the blank into dished form by continued application of pressure in the same direction while both the outer part and the neck part are confined.

1,677,842. BRAKE LINING AND METHOD OF MAKING SAME. IZADOR J. NOVAK, Bridgeport, Conn., assignor to Raybestos Company, Bridgeport, Conn., a Corporation of Connecticut. Filed May 10, 1923. Serial No. 638,126. Renewed Jan. 14, 1928. 8 Claims. (Cl. 91—70.)

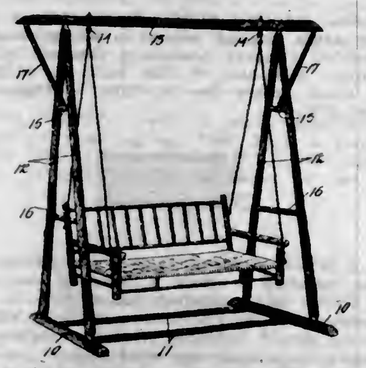
1. Frictional elements consisting of asbestos fibre having incorporated therewith a solid residue obtained from the heat treatment of a mixture of water gas tar and petroleum oil.

1,677,843. DOOR HINGE AND SUPPORT. ALBERT SAMUEL PARKIN, Plaistow, England. Filed Jan. 22, 1926. Serial No. 83,116, and in Great Britain Feb. 4, 1925. 6 Claims. (Cl 16—179.)



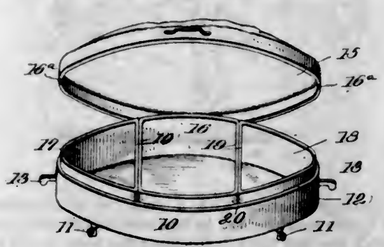
1. A hinge for supporting a door upon a wall, comprising a hinge leaf, a guideway, a carriage slidable along said guideway, a link having a pivotal connection at one end to the hinge leaf and a pivotal connection at the other end to the carriage, means for securing the carriage in adjusted position on the guideway, a lug on the link and a catch plate adjacent to the said guideway to engage the said lug.

1,677,844. STAND OR SUPPORT FOR SWINGS. WILLIAM H. PATTON, Martinsville, Ind., assignor to Old Hickory Furniture Company, Martinsville, Ind., a Corporation of Indiana. Filed Dec. 21, 1925. Serial No. 76,852. 1 Claim. (Cl. 155—58.)



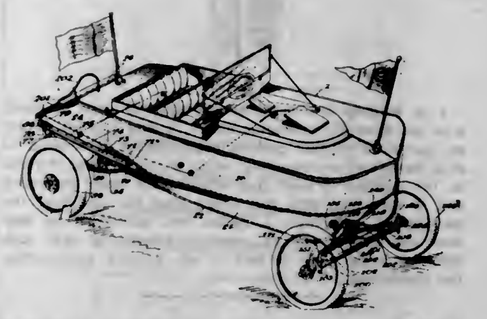
As an article of manufacture, a swing supporting frame fabricated of unsplit tree portions comprising a pair of bases, spaced parallel compression members connecting said bases, uprights mounted in spaced relation on each of said bases and converging and meeting at their upper ends, spaced horizontal braces supporting said converging uprights, a top bar connecting the converging upper ends of the uprights on one base with the converging uprights on the other base, said top bar projecting outwardly beyond said converging ends, and diagonal compression braces between the horizontal supports on each of the uprights and the projecting overhanging end of the top bar, the connections between all said members consisting of tongue and socket joints, whereby a supporting frame is provided having a minimum width for maximum width of swing seat, substantially as set forth.

1,677,845. SERVING DISH. MARY MILLICENT PINNEY, Hagerstown, Md. Filed Nov. 4, 1927. Serial No. 231,013. 1 Claim. (Cl. 65—53.)



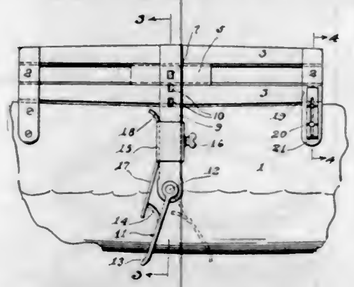
A serving dish of the character described comprising a carrier-receptacle of substantially elliptical form in plan view, provided with a dish receiving chamber, bosses depending from the bottom of said receptacle, casters swivelled in said bosses, whereby said carrier-receptacle is mounted so that it may be conveniently moved about to various positions upon a table, a plurality of dishes removably located within said chamber, said dishes being complementally shaped with respect to said chamber and to each other, said dishes being deeper than the chamber so that their upper edges extend above the plane of the upper edge of said chamber, so as to provide a flange contiguous to said edge and a dome-like cover conforming to the shape of said carrier receptacle and hingedly connected to one side edge of said receptacle, the bottom edge of said cover being so shaped as to engage and enclose the projecting edges of said dishes while the cover is in closed position, said cover having slots in its edge to permit the handles of serving implements to project therethrough.

1,677,846. LAND AND WATER VEHICLE. GEORGE E. POWELL, Chicago, Ill., assignor of one-half to Elmer E. Shugart, Council Bluffs, Iowa. Filed July 28, 1926. Serial No. 125,507. Renewed May 25, 1928. 16 Claims. (Cl. 115—1.)



1. A land and water vehicle including a hull having means for propelling it in water, and running gear for mounting and driving the hull on land including a pair of driving wheels connected to the stern of the hull, a pair of steering wheels at the bow, manually controlled means for operating the steering wheels, a suitably supported spring, a universal connection between the spring and the bow of the hull, an axle for said steering wheels, elastic connections between the hull and said axle, and radius rods connecting the axle with the hull.

1,677,847. MEANS FOR PROPELLING BOATS. JACOB Y. PROPST, Ohatchee, Ala. Filed Nov. 12, 1927. Serial No. 232,815. 6 Claims. (Cl. 115—21.)



1. The combination with a boat, of a reciprocating block, guide bars secured to the side of the boat loosely engaging the said block for guiding the same in its movements; a lever bar one end of which is fashioned to form a handle or arm and the other end passed through the reciprocating block to which it is rigidly secured and extended beyond the side of the boat; a vertical bar rigidly secured to the extended end of the lever bar; an oar blade pivoted to the lower end of the said vertical bar; and means for limiting the movement of the oar blade through an arc of approximately 90° in the water.

1,677,848. STUFFING BOX. CHARLES L. PRUIETT, Oil Center, Calif. Filed Sept. 12, 1927. Serial No. 219,038. 3 Claims. (Cl. 286—31.)



1. A stuffing box comprising a tubular base provided with an upwardly extending sleeve, a ring on said sleeve, an apertured tubular packing cage detachably secured to said base and surrounding said sleeve, a ring formed on the interior of said cage adjacent its upper extremity and co-operating with the sleeve ring for retaining the packing in said cage, a polish rod positioned in said base and sleeve and an aperture formed in said cage whereby access may be had to the packing surrounding the polish rod.

1,677,849. CLASP. GEORGE H. ROBERTS, Providence, R. I., assignor to B. A. Ballou & Co., Inc., Providence, R. I., a Corporation of Rhode Island. Filed May 24, 1927. Serial No. 193,799. 5 Claims. (Cl. 24—265.)

1. A strap connector comprising a body having a front plate with side walls, a diaphragm spring in said body, a back plate having its edge engaging the side walls and held in position by the folded-in edge of said side walls, one of said plates having an eye for attachment to the strap, bearings in said back plate, a lever jaw having pintles in said bearings and swingable towards and from said back plate to clamp between it and the back plate an article to which it is desired to



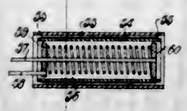
attach said strap, and a tongue portion on said lever engaging said spring to be forced thereby into clamping position or when said lever is swung thru substantially 90° to then force or hold said lever in open position.

1,677,850. VACUUM TUBE. ERNEST YEOMAN ROBINSON, Manchester, England, assignor to Metropolitan-Vickers Electrical Company Limited, London, England, a British Joint Stock Company. Filed Nov. 27, 1922. Serial No. 603,715, and in Great Britain Dec. 6, 1921. 4 Claims. (Cl. 250—27.5.)



1. In a vacuum electric discharge tube having an envelope containing an ionizable rarified atmosphere, an anode, a thermionic cathode mounted within the anode, said anode and cathode being so closely spaced that the inter-electrode electron paths are of less length than the mean free path in said atmosphere and are sufficiently short to give the tube "hard" characteristics which atmosphere in a longer gap would be ionized and would give the tube "soft" characteristics, and means at the boundaries of said cathode exposed to the space outside of the inter-electrode space to substantially confine the electrons to said inter-electrode space.

1,677,851. VACUUM TUBE. ERNEST YEOMAN ROBINSON, Lymm, England, assignor to Metropolitan-Vickers Electrical Company Limited, a Company of Great Britain. Filed Mar. 19, 1926, Serial No. 96,050, and in Great Britain Dec. 6, 1921. 4 Claims. (Cl. 250—27.5.)

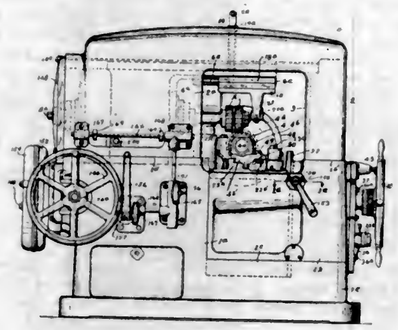


2. A vacuum electric discharge tube comprising an envelope contaning an anode, a thermionic electron-emitting cathode spaced therefrom, and an ionizable rarified atmosphere, the inter-electrode space being sufficiently short to prevent ionization of said atmosphere which atmosphere in a longer gap would produce gaseous ionization, the cathode having means for producing a sufficiently reduced electron emission from the boundaries thereof exposed to the space outside of the inter-electrode space to substantially completely confine the electron emission to said inter-electrode space.

1,677,852. TEXTILE LUBRICANT AND PROCESS. JOSEPH J. SCHAEFER, Jr., Dayton, Ohio. Filed Jan. 5, 1928. Serial No. 244,774. 10 Claims. (Cl. 19—66.)

1. A textile lubricant containing an alkali metal lactate.

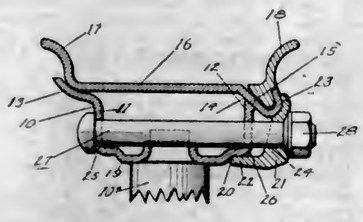
1,677,853. MACHINE FOR HOBBING OR CUTTING GEARS. CHARLES H. SCHURR, Cleveland, Ohio, assignor to The Lees-Bradner Company, Cleveland, Ohio, a Corporation of Ohio. Continuation of application Serial No. 679,127, filed Dec. 7, 1923. This application filed July 22, 1924. Serial No. 727,421. 25 Claims. (Cl. 90—4.)



1. In apparatus of the character described, the combination of a frame, a driven shaft, a knee mounted in said frame to move vertically, a head supported by said knee, and swingable about the axis of said shaft, a tool spindle supported by said head and carrying a worm gear, a sleeve splined on said driven shaft and provided with a worm meshing with said worm gear, a work spindle, connections between said work spindle and said driven shaft, means for adjustably securing said head to said knee, and means for adjusting said knee.

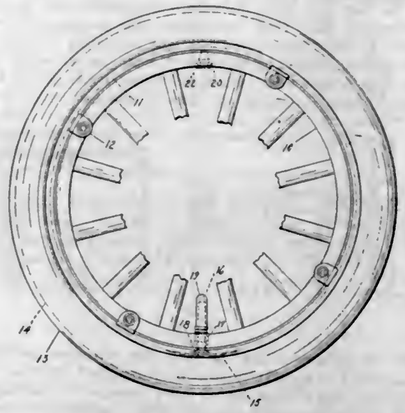
20. In apparatus of the class described in combination, a frame, a work spindle adapted to support a work piece, a tool spindle and a tool thereon, means for rotating the spindles, spindle adjusting means for bringing the tool into working position relative to a work piece, said adjusting means including a knee by which one of the spindles is supported, guides on the frame within and on which the knee is slidably mounted, an inclined surface on the knee, a movable member on the frame having a corresponding inclined surface engaging the inclined surface on the knee, and means for moving the movable member.

1,677,854. WHEEL. JOSEPH G. SWAIN, Akron, Ohio, assignor to The Firestone Steel Products Company, Akron, Ohio, a Corporation of Ohio. Filed July 29, 1924. Serial No. 728,875. 2 Claims. (Cl. 301—24.)



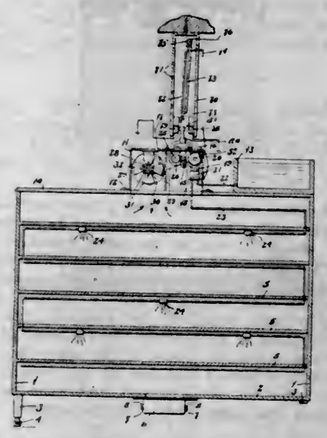
2. A vehicle wheel having, in combination, a metal felly formed with a generally transversely flat base having a crown extending inwardly therefrom and with rim-seating flanges having transversely aligned apertures, bolts in the apertures, and rim clamps on the bolts, said clamps having fulcrums adapted to seat on one edge of said crown.

1,677,855. COUNTERWEIGHT. JOSEPH G. SWAIN, Akron, Ohio, assignor to The Firestone Steel Products Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 31, 1926. Serial No. 158,229. 1 Claim. (Cl. 301—6.)



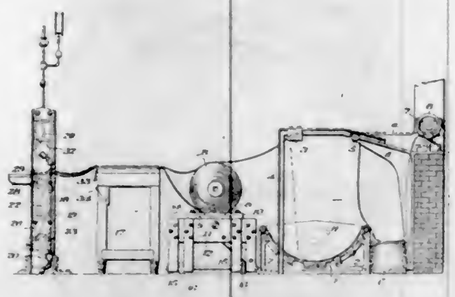
In an automobile wheel assembly comprising on one side of the wheel, a rim driver and a tire valve, counterweight attached to the felloe diametrically opposite said driver and valve, said counterweight including a plug attached to the felloe of the wheel and having a shouldered recess therein, and a slug of weighting material cast in the recess.

1,677,856. AUTOMATIC MOISTURE CONTROL. WALLACE C. WRIGHT, Brookfield, N. H., assignor to American Shoe Machinery Company, East Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1922. Serial No. 601,599. 2 Claims. (Cl. 236—44.)



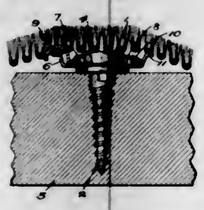
1. In a machine of the kind described, the combination of a storage chamber having therein perforated shelves to receive stock to be retained in tempered condition, a liquid supply tank, means for distributing the liquid from said tank simultaneously at a plurality of points throughout said chamber, a suction fan for withdrawing heat or moisture from the chamber to maintain the same at an even humidity, and moisture responsive means to regulate the injection and expulsion of moisture to and from said chamber.

1,677,857. APPARATUS FOR SPLICING FABRIC. WINTHROP W. BENNER, Cuyahoga Falls, and EDMUND A. HOENER, Akron, Ohio, assignors to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 5, 1922. Serial No. 605,058. 6 Claims. (Cl. 154—42.)



6. An apparatus for the uses and purposes set forth, comprising a support for an exhausted roll of fabric and a support for a fresh roll of fabric, means for uniting the ends of the fabric by vulcanization comprising a heated element and a complementary member and means for moving said element and member together to cure the union between the ends of the fabric, and means for moving the fresh fabric roll to the position for the exhausted roll after the fabric ends have been vulcanized together.

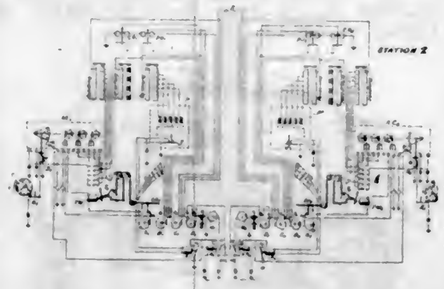
1,677,858. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Feb. 26, 1925. Serial No. 11,692. 6 Claims. (Cl. 16—4.)



1. A fastener socket comprising a body portion providing a stud-receiving aperture surrounded by resilient stud-engaging means, a wall at the outer periphery of said body portion adapted to be seated against the under side of a support and a plurality of attaching prongs extending upwardly from said body portion between the inner periphery of said wall and the resilient stud-engaging means, the bases of said prongs being located in a plane substantially below the plane of the upper face of said wall, thereby to permit the bend of said prongs to begin at points below the plane of said wall when said prongs are clinched into engagement with the support.

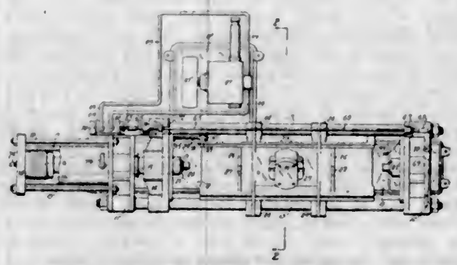
1,677,859. AUTOMATIC REVERSING SYSTEM FOR MULTIPLEX CIRCUITS. WILLIAM A. DUDLEY, Brooklyn, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Mar. 24, 1925. Serial No. 17,986. 20 Claims. (Cl. 178—2.)

1. A printing telegraph system adapted for alternate operation in both directions, comprising a plurality of stations, an automatic transmitter and a receiving printer at each station, means at each station to automatically and periodically reverse the connection of the line from the transmitter to the receiver, and additional



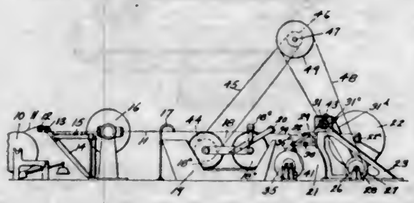
means at each station operative through the printer at the distant station to reverse the connection of the line at the distant station from receiver to transmitter.

1,677,860. ASSEMBLY PRESS. JOHN P. FERRIS, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 1, 1926. Serial No. 85,233. 23 Claims. (Cl. 29—84.)



11. In a hydraulic press the combination of a pressure applying head, a pressure sustaining head, a work support, means for securing the work to said support, and hydraulically actuated means for operating said securing means and for effecting relative movement between said heads in predetermined sequence.

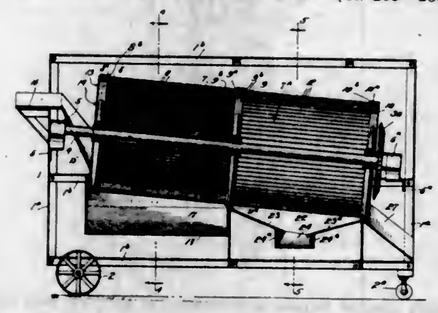
1,677,861. METHOD AND APPARATUS FOR HANDLING TACKY STRIP MATERIAL. FRED GOODALL, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 3, 1926. Serial No. 99,492. 7 Claims. (Cl. 242—158.)



1. The combination with apparatus for making or treating tacky strip material and a reel for receiving the material therefrom, of a level winding mechanism

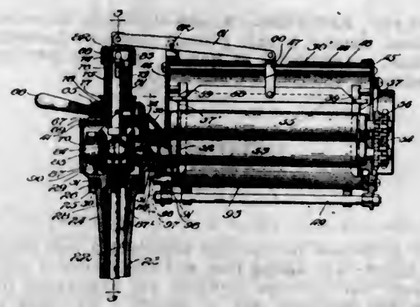
adapted to guide said strip material and a strip of liner into superposed relation onto said reel, said mechanism comprising a unit movable to and fro transversely of the reel and including a series of strip guiding rollers, a series of liner guiding rollers, and means urging a liner guiding roller against the strip as it passes to the reel.

1,677,862. CERAMIC SORTING MACHINE. RUSSELL P. HERROLD, Zanesville, Ohio, assignor to The Mosaic Tile Company, a Corporation of Ohio. Filed Sept. 26, 1924. Serial No. 740,047. 2 Claims. (Cl. 209—288.)



1. A sorting machine for ceramic units embodying a tumbling-drum having a charging opening at one end, a discharge opening at the opposite end, and being divided into communicating sand-sieving and unit-gauging compartments, said sand-sieving compartment having a screen wall provided with apertures of less width than the thickness of the unit to be sorted and said unit-gauging compartment having a screen wall unobstructed on its interior surface and provided with elongated gauging apertures of slightly greater width than the thickness of the units to be sorted, means for supporting said drum with its axis in inclined position, means for rotating said drum about said inclined axis, a sand-receiving bin arranged below the sand-seiving compartment, and another independent bin having means arranged closely adjacent to the bottom of the unit-gauging compartment for receiving without breakage units passing through the gauging apertures of said unit-gauging compartments.

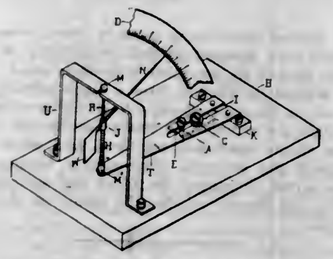
1,677,863. POWER-OPERATED CLOTHES WRINGER. JOHN T. HUME, Chicago, Ill., assignor, by mesne assignments, to Electric Household Utilities Corporation, Chicago, Ill., a Corporation of Illinois. Filed Nov. 2, 1922. Serial No. 598,516. 14 Claims. (Cl. 68—32.)



1. The combination of a standard, a frame mounted thereon to swing around a vertical axis, a drive shaft extending through the standard, a relatively fixed roll in the frame, and means for operatively connecting said drive shaft and roll to drive the latter in rotation about its fixed axis in the frame, said means including a clutch having a shiftable element; a relatively movable roll parallel to the first roll and vertically shiftable in the frame, a lever pivoted in said frame and having operative connections with said shiftable roll for moving the same toward said relatively stationary roll, one end of said lever extending into alignment with said standard, a spring for acting on said portion of said lever to tension the movable roll, and a controlling handle coaxial with the power shaft having operative connections both with said clutch member to shift the same to engaging and to neutral positions, and with the spring to release the roll-tension when said clutch member is shiftd to neutral position,

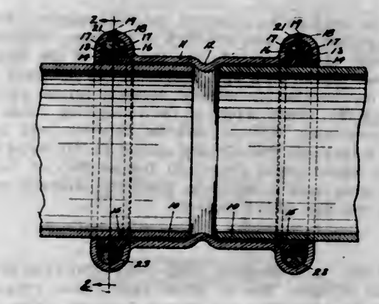
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1,677,864. MEASURING INSTRUMENT. WILLIAM JANDUS, East Cleveland, Ohio, assignor of one-half to Herbert S. Jandus, Detroit, Mich. Filed Oct. 7, 1921. Serial No. 506,221. 6 Claims. (Cl. 73—151.)



1. A device of the class described comprising a base member, a support rising from said base member, a single coil helicoid spring having a ribbon extension rigidly connected with said support, indicating mechanism including a needle rigidly connected adjacent the juncture of said extension and spring and means operatively connected with said spring at a point removed from said juncture and with said base member for causing a rectilinear distortion of said spring and an angular deflection of said needle in a single plane.

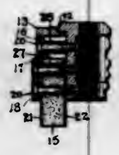
1,677,865. COUPLING. EDWIN JOHN KROEGER, Akron, Ohio, assignor of three-fourths to Selden Lord, Akron, Ohio. Filed Mar. 6, 1926. Serial No. 92,683. 3 Claims. (Cl. 285—118.)



1. A pipe joint comprising an element on one pipe end embracing another pipe end, said element having a gutter on the inside thereof, a rubber gasket fitted in the gut-

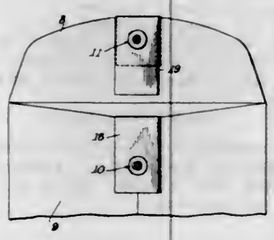
ter defining a space about the gasket within the gutter, said gutter being adapted to be supplied with a fluid pressure medium for said space, and a packing ring within the gutter of soft deformable material adapted to protect the rubber gasket from the action of any fluid in the system tending to deteriorate rubber.

1,677,866. SEGMENTAL RING WHEEL. THURE LARSSON, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 22, 1924. Serial No. 733,661. 4 Claims. (Cl. 51—209.)



1. A driving head for a grinding wheel comprising a supporting ring adapted to hold a plurality of abrasive segments around its periphery with their outer ends projecting beyond the ring to form a plane grinding surface and a set of clamping blocks adjustably mounted on the head which are arranged to clamp against the peripheral surfaces of the assembled segments, said parts being so constructed and arranged that certain clamping blocks may be moved to engage the inner end surfaces of the segments and thereby receive the thrust of the grinding operation.

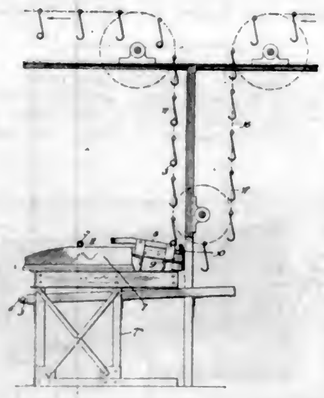
1,677,867. ENVELOPE FASTENING. JOHN LLOYD, Paterson, N. J., assignor of forty per cent to Philip S. McLean, Bloomfield, N. J. Filed Sept. 4, 1926. Serial No. 133,551. 2 Claims. (Cl. 229—78.)



1. An envelope for repeated use, said envelope having a closure flap overlying the back of the same, folded reinforcement strips engaged over the edge of the flap and the edge of the back and complementary members of a snap fastener having integral securing prongs extended through the double layers of the reinforcing strips with the intervening envelope material between, said prongs being turned over and clinched against the far layers of the folded reinforcement strips and the members of the fastener being faced to engage as relatively releasable cooperating stud and socket elements.

1,677,868. APPARATUS FOR MANUFACTURING INNER TUBES. MAX H. PADE, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 5, 1919. Serial No. 342,712. 2 Claims. (Cl. 154—5.)

1. An apparatus for the manufacture of tubes comprising a device whereon the tube is rolled about a mandrel, a guideway from said device along which the mandrels pass, a stop in said guideway, a conveyor intersecting said guideway, and swinging hooks on said conveyor adapted to pick up a mandrel at the stop, said stop being arranged to contact a mandrel on said conveyor and swing said hook backward.



1,677,869. FASTENER. WALTER H. PIERCE, Watertown, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Nov. 18, 1924. Serial No. 750,596. 2 Claims. (Cl. 24—219.)



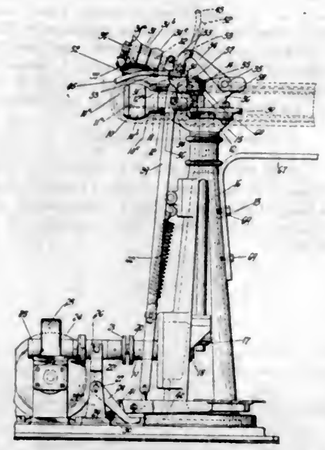
1. A fastener stud having a base portion, an attaching part extending from said base portion, and an upstanding annular wall projecting upwardly from said base portion to provide a stud head and neck for cooperative engagement with a suitable socket, said wall extending upwardly outwardly and then inwardly and having its free edge terminating about an aperture in the head of said stud through which a suitable tool may be inserted to back support the attaching part when said stud is being secured to a carrying medium.

1,677,870. FASTENER. WALTER H. PIERCE, Watertown, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Nov. 18, 1924. Serial No. 750,598. 4 Claims. (Cl. 16—4.)



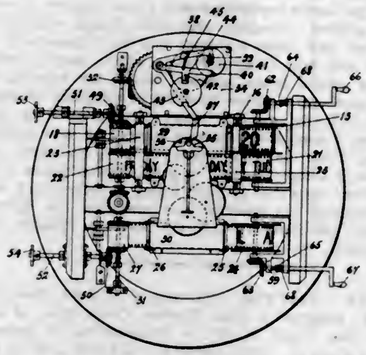
1. A one-piece fastener stud comprising a base portion, an annular wall arising from said base portion, a second annular wall extending outwardly and downwardly from said first mentioned wall to provide a stud head and neck, and a plurality of slots extending through both walls to permit contraction and expansion thereof independently of each other.

1,677,871. TIRE-FINISHING MACHINE. EDWARD D. PUTT, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 13, 1925. Serial No. 9,062. 6 Claims. (Cl. 154—10.)



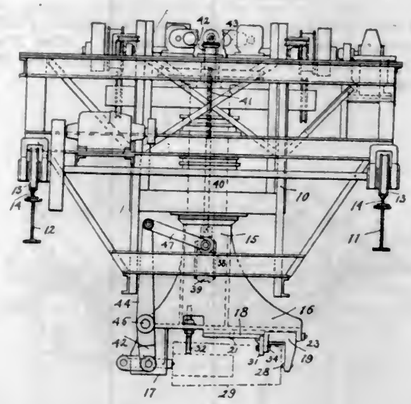
1. In a tire finishing machine, means for circumferentially driving a tire casing, means for stitching a side wall onto the casing having a tread thereon, and means for stitching over the joint between the side wall and the tread, the two last-named means being arranged to act in succession.

1,677,872. CALENDAR CLOCK. REGINALD NORMAN REID, Edinburgh, Scotland. Filed Oct. 17, 1927, Serial No. 226,794, and in Great Britain Sept. 1, 1926. 3 Claims. (Cl. 58—6.)



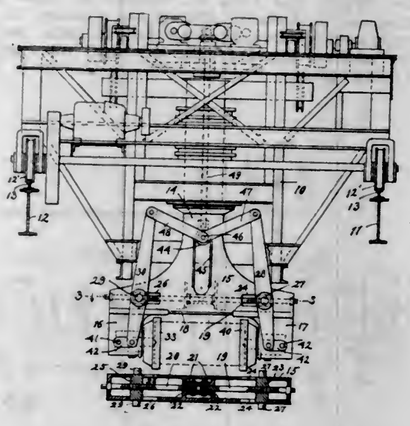
1. In combination, a clock having three apertures in the dial thereof, a movable strip positioned behind each aperture, a let-off spool, a driving spool, and a take-up spool for two of said strips, rollers around which the other strip forms an endless band, the driving spool for one of said strips operatively engaging one of said rollers, and mechanism controlled by said clock for simultaneously rotating said spools, whereby said strips and band move at predetermined intervals of time.

1,677,873. PICK-UP AND CENTERING DEVICE FOR BILLET-HANDLING MACHINES. SYDNEY SMITH, London, England, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 26, 1926. Serial No. 97,536. 7 Claims. (Cl. 78—96.)



1. In apparatus of the class described, the combination of a lifting member, means carried by said member for positioning an ingot relative thereto, a plunger carried by said member and reciprocable in alignment with the axis of the ingot when so positioned, said plunger having a punch adapted to engage one end of the ingot and form a central depression therein, and means on said member for actuating said plunger.

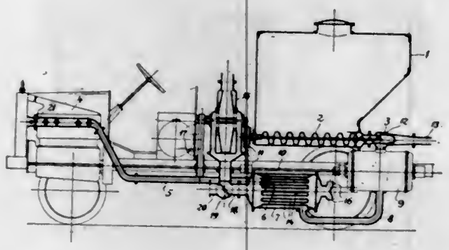
1,677,874. PICK-UP AND CENTERING DEVICE FOR BILLET-HANDLING MACHINES. SYDNEY SMITH, London, England, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 26, 1926. Serial No. 97,537. 8 Claims. (Cl. 78—96.)



1. In apparatus of the class described, the combination of a lifting member, an arm thereon having means adapted to engage one end of a billet, a bracket slidable

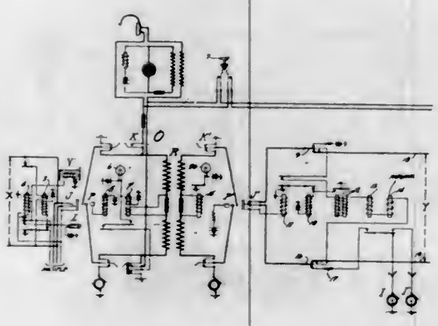
on said member axially of the billet, a centering member carried by said bracket and engageable with one end of the billet to position the latter, a punch carried by said bracket and movable therewith to form a central depression in said end of the billet, and means for moving said bracket.

1,677,875. APPARATUS FOR EXTINGUISHING FIRE. CORNELIUS SZILVAY, Budapest, Hungary. Filed Dec. 24, 1924, Serial No. 757,834, and in Hungary Dec. 29, 1923. 3 Claims. (Cl. 169—15.)



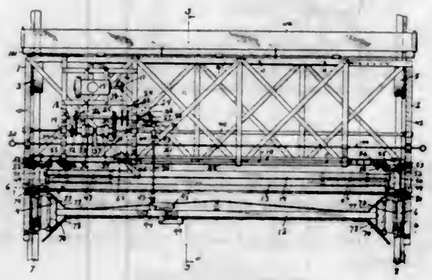
1. A fire extinguishing apparatus comprising a combustion engine, a pipe leading away from the exhaust gases of said combustion engine, an air cooler connected to said pipe and having a tubing, an exhauster actuated by said combustion engine sucking air through said tubing, a nozzle, a compressor driven by the said combustion engine connected to said cooler, sucking the exhaust gases from the said cooler and conveying them to the nozzle, a receptacle for extinguishing powder, means for conveying the extinguishing powder from said receptacle to the said nozzle, means in connection with the said nozzle and with the compressor for mixing the extinguishing powder with the exhaust gases and means for conducting the mixture to the fire.

1,677,876. TOLL-SERVICE TRUNKING SYSTEM. JOHN WICKS, Oak Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed June 16, 1923. Serial No. 645,714. Renewed June 18, 1927. 26 Claims. (Cl. 179—27.)



1. In a telephone system, a manual office and an automatic office interconnected by trunk lines, an operator's cord circuit at the manual office for completing calls to subscribers of either office, means for providing order wire service between said offices to permit an operator at the manual office to repeat numbers of subscribers in the automatic office to an operator thereat and to permit such operator to assign one of said idle trunks to the manual operator, automatic switches in the automatic office for setting up connections to called lines, means at the automatic office for transmitting impulses to effect the operation of said automatic switches, and supervisory means at the manual office operative in a characteristic manner depending upon the number of automatic switches operated or the condition of the called line when seized.

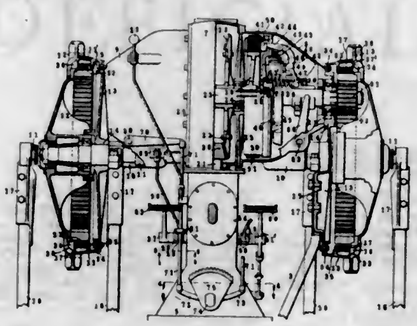
1,677,877. CONCRETE-ROAD MACHINE. EDWARD G. CARR, Chicago, Ill., assignor to The Lakewood Engineering Company, Lakewood, Ohio, a Corporation of Ohio. Filed Dec. 29, 1921. Serial No. 525,571. 10 Claims. (Cl. 94—44.)



1. The combination in a concrete road machine, of a frame member, a motor secured to said frame member, wheels for partly supporting said frame member, a second frame member engaging said first frame member for movement with respect thereto and for additionally supporting said first frame member, wheels partly supporting said second frame member, means for securing said frame members together in different positions of adjustment, vertically movable links secured to said frame members, a spreading template secured to said vertically movable links, rocking-frames secured to said frame members, a tamper secured to said rocking-frames, a float or finisher supported by said frame members, and means for propelling the machine and operating the spreading template, the tamper, and the float or finisher, from said motor.

1,677,878. TRACTOR. THOMAS C. LEAKE, New York, N. Y., assignor to Bear Tractor Corporation of America, New York, N. Y., a Corporation of Delaware. Filed June 27, 1922. Serial No. 571,308, and in Great Britain Feb. 2, 1923. 18 Claims. (Cl. 180—9.2.)

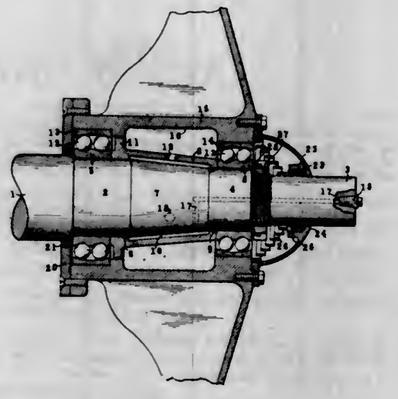
1. In a tractor, in combination, traction elements, brake mechanism for each of said traction elements, clutch mechanism for each of said traction elements, an operating link connected with each of said brake and clutch mechanisms, a rotary brake shaft having crank arms thereon operatively connected respectively to said brake operating links, a foot pedal connected to operate said brake shaft to simultaneously apply said brake mechanisms, a lost motion connection between each of said clutch operating links and the corresponding brake operating link, a steering shaft having an operating hand wheel thereon and connections between said steering shaft and said clutch operating links for alternate operation thereof to control said clutch mechanisms and



to said brake operating links for operation of said brake mechanisms through said lost motion connections in sequence to said clutch operation.

1,677,879. SELF-OILING BEARING. THOMAS C. LEAKE, New York, N. Y., assignor to Bear Tractor Corporation of America, New York, N. Y., a Corporation of Delaware. Filed June 27, 1922. Serial No. 571,309. 5 Claims. (Cl. 308—190.)

1. In a self-lubricating bearing for vehicle wheels or the like, the combination with an axle and a hub associated for relative rotation and having spaced bearings therebetween, of a storage reservoir for lubricant disposed between said hub and axle and between said spaced bearings, an axle extension for said axle at the outer end thereof, a lubricant conduit leading to said reservoir and extending through said axle and axle extension for insertion of lubricant to the reservoir from an external point, a recessed cap secured to said hub through which the axle extension projects to an external point, packing between the cap and axle extension,



a retaining nut housed within the recess of said cap and threaded on said axle and adapted to retain the bearing parts in assembled relation and a conical spring housed within the recess of said cap stressed between said hub and packing to automatically adjust the latter, said nut and spring being housed within said cap and protected thereby.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

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Vol. 372—No. 4. TUESDAY, JULY 24, 1928. Price—$10 per year.

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Trade-Marks	303—No.	244,505 to No.	244,807 inclusive.
T. M. Renewals	77		
Labels	17—No.	34,344 to No.	34,360, inclusive.
Prints	12—No.	11,111 to No.	11,122, inclusive.
Reissues	7—No.	17,045 to No.	17,051, inclusive.
Designs	74—No.	75,818 to No.	75,891, inclusive.
Patents	748—No.	1,677,880 to No.	1,678,627, inclusive.
Total	1,238		

International Convention—Ratification.

This Office has been notified by the Secretary of State of the receipt of a notice from the Government of the Netherlands that the following countries have ratified the Convention of the Union for the Protection of Industrial Property as revised at The Hague on November 6, 1925: Italy, Germany, Great Britain and North Ireland, Austria, Canada, Spain, and the Netherlands.

THOMAS E. ROBERTSON,
Commissioner of Patents.

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,428,787, H. Landsiedel, Adding machine, decided April 19, 1928, claims 31 to 36, inclusive.

Pat. 1,508,151, E. F. W. Alexanderson, Wireless signaling system, decided June 12, 1928, claim 21.

Pat. 1,565,411, C. A. Boddie, Load-regulator system, decided June 14, 1928, claims 14, 15, and 17.

Pat. 1,620,245, A. W. Turner, Device for closing the air bladders of sport balls of any kind, decided June 4, 1928, claims 1 to 7, inclusive.

Final decisions in interference have been rendered against the following trade-marks:

T. M. 172,592, Liver, kidney, and stomach medicine, Spinks & McIlwain, also doing business as Nu-life Medicine Company, Selma, Ala. Registered September 11, 1923. Decided May 15, 1928.

T. M. 173,148, Fresh cherries, San Joaquin County Cherry Growers Assn., Stockton, Calif. Registered September 18, 1923. Decided June 28, 1928.

T. M. 227,821, Radio apparatus and accessories, consisting of receiving sets, vacuum and electron tubes, batteries, battery eliminators, loud speakers, switches, and battery charges, The Glenn L. Martin Company, Cleveland, Ohio. Registered May 17, 1927. Decided June 30, 1928.

Notices of Cancellation.

U. S. Patent Office, *Washington, June 23, 1928.*

The Apex Coal Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of The Masteller Coal Company, of Keyser, W. Va., to effect the cancellation of the trade-mark registration of The Apex Coal Company, of Fort Smith, Ark., No. 160,128, dated October 17, 1922, and the notice of such proceeding sent by registered mail to the said The Apex Coal Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said The Apex Coal Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. Patent Office, *Washington, June 23, 1928.*

Alma Wooster, H. W. Patrick, and A. G. Palmer, their assigns or legal representatives, take notice:

An application was filed in this Office by Lysol, Incorporated, of Bloomfield, N. J., for cancellation of trade-mark registration No. 35,104, issued September 18, 1900, to Caroline W. Patrick, of 22 East Main Street, Norwalk, Ohio. The assignment records of this Office show a transfer of title of this registration to Alma Wooster, H. W. Patrick, and A. G. Palmer. Since the Office has been unable to obtain the post-office address of Alma Wooster, H. W. Patrick, and A. G. Palmer, the proceeding can not be instituted. Therefore notice is hereby given that unless said Alma Wooster, H. W. Patrick, and A. G. Palmer, their assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business July 13, 1928.

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 108,524; Trade-Mark Division, 1,934. Oldest new case, Sept. 8, 1927; oldest amended, Sept. 29, 1927. The dates given are 1927 except where † indicates 1928.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS.	Oldest new application awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders	Oct. 26	Dec. 3	1,528
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	Dec. 30	Dec. 29	1,563
331	3. LINDSEY, A., Electric Heating; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Nov. 9	Dec. 14	2,033
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus and Implements, and Pushing and Pulling.	Oct. 1	Oct. 5	2,299
108*	5. MACNAB, J. F., Harvesters; Jewelry; Music; Acoustics; Sound Recording; Knotters	Oct. 5	Oct. 26	1,637
318	6. LEWERS, A. M., Chemistry; Chemistry—Carbon Compounds	Nov. 8	Dec. 3	2,768
106	7. JARBOE, C. G., Amusement and Exercising Devices; Toys; Optics; Photography	Oct. 19	Oct. 25	2,506
133	8. HENRY, C. C., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Supports, Racks; Supports, Cabinet Structures.	Nov. 14	Nov. 14	2,527
221	9. ADAMS, R. E., Pumps: Fluid and Fluid-Current Motors	†Feb. 7	†Feb. 10	1,569
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Nov. 2	Nov. 19	1,897
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather Manufactures; Nailing and Stapling; Whip Apparatus; Cutting and Punching Sheets and Bars.	†Jan. 3	†Jan. 4	1,593
380	12. PIERCE, P. P., Machine Elements	Sept. 22	Oct. 28	2,132
154*	13. CLIFT, J. W., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Nov. 30	Dec. 4	1,889
102*	14. BRUMBAUGH, N. J., Compound Tools; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Oct. 20	Oct. 22	1,748
329	15. REDROW, W. L., Glass; Plastic Block and Earthenware Apparatus; Plastics	Nov. 18	Dec. 9	2,309
242*	16. SPENCER, C. J., Batteries; Resistances and Rheostats; Telegraphy; Telephony	†Jan. 13	†Jan. 5	1,430
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Nov. 30	Dec. 3	1,358
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Dec. 2	Dec. 2	1,563
246	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Dec. 8	Dec. 3	1,755
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	†Feb. 1	†Jan. 31	1,467
212	21. THURBER, W. L., Winding and Reeling; Textiles; Cloth Finishing	Sept. 19	Dec. 6	1,554
244*	22. COLWELL, J. H., Aeronautics; Amusement Devices, Games; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Oct. 15	Dec. 1	1,976
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers; Horology; Time-Controlling Mechanism.	Oct. 6	Oct. 4	1,540
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Oct. 5	Oct. 5	1,600
314	25. LIGHTFOOT, J. H., Agitating; Bleaching and Dyeing; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Mills; Sugar and Starch; Threshing; Vegetable and Meat Cutters and Comminutors.	Nov. 10	Nov. 25	2,586
228*	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Oct. 28	Oct. 31	1,301
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Dec. 30	Dec. 8	1,372
225	28. BENSON, A. R., Internal-Combustion Engines	Oct. 28	Oct. 31	2,067
160*	29. MORRIS, B. N., Abrading; Button Making; Coopering, Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Oct. 18	Oct. 29	738
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Typewriting Machines; Thermostats and Humidostats.	Nov. 5	†Jan. 9	1,692
312	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue.	Dec. 2	Dec. 1	2,887
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Oct. 24	Oct. 22	2,271
152	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	†Feb. 4	†Feb. 2	2,178
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Oct. 1	Sept. 29	1,517
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	†Jan. 24	†Feb. 6	1,566
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	†Jan. 10	†Jan. 9	1,857
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Nov. 5	Dec. 20	2,102
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Dec. 20	Dec. 9	1,897
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Sept. 8	Sept. 29	1,747
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Package and Article Carriers; Receptacles	Sept. 28	Dec. 1	2,812
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes	†Feb. 2	†Feb. 2	1,160
223*	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling	Nov. 12	Nov. 21	2,064
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members; Railway Draft Appliances.	Dec. 10	†Jan. 3	2,258
253	44. SHAFFER, C. H., Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Refrigeration.	Oct. 18	Nov. 4	2,165
376	45. GILES, A. H., Pulleys and Shafting; Lubrication; Machine Elements; Bearings and Guides	†Jan. 6	†Jan. 7	1,626
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Oct. 7	Oct. 12	1,852
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Motors; Spring Devices.	Oct. 20	Nov. 1	2,755
213*	48. ROEPKE, O. B., Electricity, General Applications	Dec. 8	Dec. 7	1,482
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Ventilation; Velocipedes; Driers; Liquid Separation or Purification.	Nov. 3	Dec. 19	1,617
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Dec. 2	Dec. 7	2,491
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Nov. 18	Nov. 17	2,239
144	52. MORGAN, E. T., Supports; Chucks; Fire Escapes; Ladders; Scaffolds; Railway Mail Delivery; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Dec. 14	Dec. 16	2,294
143*	53. PECK, M. K., Books, Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Nov. 11	Nov. 12	1,789
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Nov. 19	Nov. 17	2,342
102	55. RICHARD, V. I. { Bread, Pastry, and Confection Making; Cutlery / Designs	Nov. 3 / †May 21	Nov. 3 / †May 25	958 / 850
309	56. PORTER, F. J. (Acting), Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation.	Oct. 8	Oct. 5	2,543
----	57.	Sept. 26	Oct. 17	1,146
163	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND { Trade-Marks / Labels and Prints	†June 15 / †July 2	†June 30 / †July 2	1,842 / 92

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

VANORE *v.* IMPROTA.

No. 2,001. Decided April 2, 1928.

INTERFERENCE—PRIORITY.

Evidence reviewed and *Held* to establish that V., the junior party, was the first to conceive the invention but insufficient to establish that he reduced the invention to practice prior to the date on which I., the senior party, filed his application.

APPEAL from the Patent Office. Affirmed.

Mr. John W. Steward for Vanore.

Mr. J. W. Milburn for Improta.

Before MARTIN, Chief Justice, VAN ORSDEL, Justice, and SMITH, Judge U. S. Court of Customs Appeals.

SMITH, *J.*:

This is an appeal by Guiseppe Vanore from the decision of the Commissioner of Patents affirming the decision of the Examiners in Chief and the Examiner of Interferences awarding priority of invention to Ralph Improta.

The invention involved is a method of winding lame or other smooth, flat filaments on elongated quills and the unwinding of the lame or filament therefrom. The issue is defined in eight counts of which the following are typical:

1. The method of winding lame or other smooth, flat filament upon a core having an abutment at one end, consisting in winding the filament, flat side contacting, back and forth upon the core to form a plurality of superposed layers, while advancing the successive layers along the core from the smaller end toward the abutment thereof and carrying the inner ends of the layers into engagement with the abutment.

6. A wound package usable in a loom shuttle without disintegration and snarling under the starting and stopping of the shuttle, comprising a shuttle quill having a tapered peripheral surface at an extremely acute angle to the quill axis, and a relatively heavy non-yieldable metal mass solidly and anti-slippingly surrounding said quill and incapable of being disintegrated by the starting and stopping of the shuttle, said mass consisting of a filament of flat metal traverse-wound on said quill into layers gradually receding from the smaller end of the quill at one end of the mass and substantially all terminating on said tapered peripheral surface at the other end of said mass.

7. A method of unwinding a smooth flat filament from a quill or other core on which it is wound in a plurality of superposed layers which are advanced along the core from one end thereof, consisting in pulling the filament toward the end of the core from which the layers of windings are advanced.

Prior to the invention which is here the subject of controversy great difficulty was experienced in weaving lame from quills which were wound from the larger towards the smaller end thereof with successive layers of lame. Lame so wound after being placed in the shuttle and submitted to the shocks resulting from throwing the shuttle backward and forward slipped off the quill and became entangled and snarled. The snarling and tangling caused the breaking of the lame and consequently a suspension of the weaving.

The invention for which both parties claim priority prevents the snarling and slipping on the quill by reversing the operation of winding the lame on the quill. That is done by boring a hole in the small end of the quill, reversing the quill on the winding machine and winding the lame from the small end to the large end of the quill.

Improta filed his application to patent the invention just described on June 23, 1923, and on that application a patent was issued to him on June 3, 1924.

According to Vanore's preliminary statement he conceived the invention about the second week of September, 1922, and on that date first embodied his conception in a full size wound package and successfully put the package in operation in the city of Paterson, N. J. His application for a patent was not filed until October 20, 1924. Vanore is, therefore, the junior party and upon him was imposed the burden of proving in the interference proceeding that he was the prior inventor.

Testimony for the appellant material to the issue.

Guiseppe Vanore testified in his own behalf that he was a loom fixer and weaver and that he was employed in that capacity by Bramson & Sachs in September, 1921; that in the second week of September, 1922, a satin warp came from outside with a box of lame and some quills or bobbins ready for use; that he put a warp in the loom and started the quill in the loom; that he could not get any "pick in the cloth" because the material came off the quills; that he worked 25 or 30 quills and did not get even 4 inches of cloth; that he came to the conclusion that it was no use to go on that way spoiling material and costing money; that he then took four empty quills and after boring a hole in the small end, put the point of quill Exhibit 2 on the butt of the spindle and the butt of the quill on the point of the spindle; that by means of the spindle, he wound lame 2 inches in length from the point of the quill; that he put the quill so wound in the shuttle and after placing the shuttle on the loom actually wove cloth with it; that he next wound on another quill about 2½ inches of lame and tried it in the same way as the first quill and it went first class; that his sister, Antonetta Grico, saw these quills work; that he nearly filled other quills with lame wound in the same way as the first quill and that they worked fine on the loom; that his brother, Nicola Vanore, started the loom to working the quills last referred to and that he saw those quills work; that he filled other quills and called Billy White to see them work; that White said:

Joe, you got a good idea * * * don't tell anybody, because some day you make money out of it;

that the fully wound quills represented by Exhibit 8 wove about 15 inches of cloth; that he told Frank Mingione of the Dante Silk Company about his invention and asked him to get work for the

witness on lame material; that the witness explained everything to Mingione; that the witness thought that the quills represented by Exhibit 2 were too thick on the butt and a little thin on the point and he made quill Exhibit 9 which would carry more material. On cross examination Guiseppe Vanore said that at the time he made his experiment with the quills Bramson & Sachs did not make cloth out of lame but "a warper weaving lames comes from outside;" that he *guessed* the warper came from the Meadow Silk Company and that he came and wove the warp with lame; that the boss told the witness:

That's a warp, any time you got time to put it up on the loom;

and he put it on the loom and started to work on it right away; that the warper came from outside to Bramson & Sachs and brought with him the quills with which he first tried to weave the warp; that the witness had seen lame before but not the quills on which the lame was wound; that he had worked in the Dante Silk Mills with lame on different quills than those which were brought by the warper; that the lame slipped from the quills with which he worked when employed by the Dante Silk Mills Company; that the lame slipped from the quills which the warper brought but did not slip after the witness changed them; that the witness was a laborer with Bramson & Sachs and did not use his invention after he proved that it would work; that it was his idea to get into business as soon as he could and then put his invention in operation; that in August or September, 1923, he bought 20 plain looms and worked on his invention in the Miesch mills of the Jeffroy Silk Company; that the quills that he used in 1923 and 1924 are the same kind of quills that Improta had a patent for; that as he was working on commission the Jeffroy Silk Company supplied him with the quills with which he did the work; that in *August, September, or October, 1923*, he knew that Improta had a patent on the quills with which he worked at the Jeffroy Silk Company's mill; that he did not know where those quills came from; that they represented his idea exactly; that when he saw the quills furnished by Jeffroy he did not know who had the patent on them until 1924 but that as soon as he saw them he said those are the quills that I have to make; that he did not file an application for a patent because he did not have an opportunity to do so and was a laborer in Jeffroy's place.

Q. Did Mr. Improta ever tell you that he had filed an application for patent upon this invention? Ans. I guess he says to me: "I got to go to Washington." In 1923 about March or April, something like that—maybe May, he don't told me what he got to do, only he told me he got to go to Washington.

The witness then stated that he could not remember whether Improta told him about the invention after the latter came back from Washington; that in March, 1923, the witness saw Improta experimenting with lame on looms but that the experiment was not a success; that the witness said nothing about his invention to Improta.

Frank Mingione testified for Vanore, that he was a silk manufacturer and understood silk, lame, tinsel and yarn weaving; that Vanore told him in 1922 that he had a way of winding the lame which would "run good on the loom" and requested witness to get work on lame; that the witness did not know what Vanore meant but that he went to New York and tried to secure a contract for making lame cloth and was informed by concerns there that they could not use the kind of cloth the witness wanted to make for them because they could import it cheaper than the witness could make it; that he told Vanore that it was no use to make the cloth because it could not be sold; that Vanore stated to the witness in the last week of September or the first week of October, 1922, that he could make lame cloth on the loom by putting the quill into the spindle backwards; that a couple of days afterwards Vanore showed the witness the quill and described to him how it operated; that the quill shown to him had a hole in both ends; that he received a letter from Rosenstein Brothers not to manufacture lame with quills like that shown to him by Vanore.

William J. White testified for Vanore that he was a silk warper by occupation; that he was working for Bramson & Sachs in 1922; that he knew G. Vanore whom the witness called "Joe" and that Vanore called the witness "Bill"; that when Bramson & Sachs first tried to weave lame or tinsel there was a great deal of trouble for the reason that the lame did not come off the quill properly thereby causing a lot of waste and imperfect cloth; that Vanore had trouble with weaving lame but overcame the difficulty; that Vanore as loom fixer tried to make the lame run properly and finally succeeded by drilling a hole in the small end of the quill and reversing the winding of the lame on the quill; that about the first week of September, 1922, Vanore wound in reverse a small quantity on one of the quills; that the quill so wound ran perfectly in the loom; that the witness saw Vanore use seven or eight quills wound in reverse and that all of the quills so wound were satisfactory; that Vanore wove in the presence of the witness 12 or 13 inches of cloth with the reversed quills; that the quills theretofore used had a hole in the butt and that the witness saw Vanore drill a hole in the small end of the quill; that after the hole was drilled he put the quill on the quilling machine by inserting the spindle in the hole in the small end of the quill; that so inserted, the quill was in a position the reverse of that for which the quill was originally designed; that when the quill was partially filled with lame Vanore put it in the shuttle and, until the quill ran out of lame, operated it in the loom without breaking the lame; that Vanore filled several more quills by winding them in the same way as the first and that the filled quills so wound operated perfectly; that the testing of the quills wound in reverse was completed in less than a day; that

the witness told Vanore that the only fault of the quill was that it would not hold enough material; that Vanore replied he would make the quill smaller but on the pattern of a normal or ordinary quill. On cross-examination the witness testified positively that Bramson & Sachs were engaged in weaving cloth out of lame but that they used only one loom for that purpose; that that loom did not work continuously and he could not say that the cloth made on it was made to sell; that the loom was used in Bramson & Sachs' mill for a few days off and on but that the lame did not run; that Vanore tried every means to make the lame run smooth before he finally conceived the idea of putting a hole in the small end of the quill and back winding the quill; that the witness told Vanore in May or June, 1923, when he quit the firm that bought Bramson & Sachs out, that he hoped to see Vanore "put over" his patent successfully; that he had never testified in a court proceeding before.

Josephine Logan, a witness for Vanore, testified that she was a quill winder by occupation and was employed in that capacity by Bramson & Sachs; that to wind the quill the big end of the quill was placed on the spindle but that in the first part of September, 1922, she saw Vanore in the Bramson & Sachs mill place the quill on the spindle in another way and wind lame on it; that she knew that Vanore had so placed the spindle and wound it with lame in the first week of September, 1922, because she went on her vacation in the last week of August and came home the Sunday before Labor Day and went to work on the following morning; that Vanore did the winding of the quill so placed on her quilling machine.

Antonetta Grico, a witness for Vanore, testified that she was a sister of Vanore and was a weaver for Bramson & Sachs in the year 1922; that in that year Bramson & Sachs attempted to weave lame but failed in the attempt; that her brother wove lame in the month of September, 1922, from a quill wound in the ordinary way; that he wove about 8 inches of lame cloth but that the woven material was bad; that her brother finally put a hole in a quill and wound it from the tip to the butt; that the cloth woven with it was very nice; that she saw him put holes in four quills; that her brother put the quill with which the weaving was done on the spindle with the point of the quill inward or toward the machine; that the first quill so placed by her brother on the spindle was not wound full but that he put a little more material on the next quill; that she saw him put the first quill so wound in the shuttle; that warper Bill White and Nick Vanore saw her brother do the things to which she testified. On cross examination the witness said that when the first quill was wound she was taking care of the spool and that her brother was taking care of the bottom quill; that she was holding the spool on a piece of straight wire and was holding it up high with her left hand.

Q. Was there any tension on the spool?
A. What's that?
Q. Did you have anything to keep the spool from turning too fast?
A. What do you mean, a weight?
Q. Yes.
A. No, there wasn't any.

The witness then stated that the winding of the quills to which she testified took place right after Labor Day in 1922 and that she remembered that it was in 1922 because she was very sick that year; that her brother drilled the holes in the tip end of the quills.

Walter Eardley testified in rebuttal on behalf of Vanore that he put bobbins on a wire and holding the tension with his fingers, after putting them over a glass bar, ran about 12 on quills; that the lame on three of the quills broke in the loom and one ran all right; that after giving a different set to the guider, the rest ran without breaking. On cross-examination Eardley said that he held with both hands the wire on which the spools of lame were placed and that it was necessary to use both hands to get tension.

Testimony for appellee material to the issue.

Ralph Improta testified on his own behalf that he had been connected with the firm of Rosenstein Brothers from 1921 and that prior to that time he was employed by A. Meadow & Son as a loom fixer; that he began to work with lame quills for Rosenstein Brothers in the early part of 1923 and used a quill, the butt end of which was put on the spindle; that a quill of that kind did pretty good but did not produce enough of cloth; that early in 1923 Rosenstein Brothers were notified to quit using that quill and that then the witness started to work on a new quill; that he made several kinds of quills and finally in the latter part of May, 1923, produced quill, Exhibit No. 10, the thin point of which was put up against the spindle; that the first layers of lame were wound on the thin end of Exhibit 10 and were wound towards the large end of the quill; that Exhibit 10 proved to be a success when used for weaving lame and is the quill which has been used since the latter part of May, 1923, by Rosenstein Brothers for weaving lame; that he heard about somebody winding a quill by having someone hold a spool of lame on a wire without tension; that he tried to wind a spool without tension but found that the lame came right off after four throws of the shuttle in which the quill was placed; that G. Vanore saw the witness in May, 1923, working on quills in Rosenstein Brothers' mill; that Vanore helped the witness to try to run the ordinary quill better; that Vanore never showed the witness anything, simply watched and put the fur in the shuttle; that after the witness filed his application for a patent in June, 1923, he told Vanore that he had been to Washington to patent the quill made by the witness; that at that time he described the quill to Vanore and said that the idea was to backwind the quill by putting the small end of the quill on the spindle; that when the witness showed his quill to Vanore at that

time Vanore stated to the witness that he had the same idea but that as long as the witness had it, it was all right; that that was the only time that Vanore ever spoke to the witness about Vanore's idea of the quill and that after the witness got his Letters Patent in September or October, 1924, Vanore met the witness on the street and asked him what was the idea of sending him a letter forbidding the use of the quill; that witness said that the letter had been sent to Jeffroy; that Vanore then said:

What's the difference; if Jeffroy has to stop, I will be compelled to stop too, because I am working for Jeffroy on commission;

that when Vanore asked his advice the witness told him to see Rosenstein Brothers. On cross-examination Improta said that he began to work on his own quill in the beginning of May, 1923, and that he never backwound any quill until May, 1923.

Charles Rosenstein testified for Improta that the firm of Rosenstein Brothers used lame in their mill ever since the summer of 1922 and that they used the ordinary quill for weaving lame; that the ordinary quill ran along all right but that it produced cloth very slowly because you had to stop the loom too many times in order to refill the shuttle; that his firm began to use a quill which was wound from the point of the quill towards the butt after his firm had been informed of that method of winding by Improta in May, 1923; that Improta in May, 1923, told the witness about his method of winding lame and showed the witness how it was done; that a quill can not be wound by holding a spool of lame in a person's hand on a wire; that the witness wound the quill in that way and that after running four throws of the shuttle it broke.

Arthur Morris testified for Improta that he saw Improta in May, 1923, working on quills wound from the small end towards the butt.

Max Lessman testified that after he went to work for Rosenstein Brothers in 1923 he saw Improta working on quills which were put into the winding machine with the point towards the spindle.

Philip Saracco testified that he first saw lame used for weaving at the end of the season of 1922 and that the lame was put on the ordinary quill; that in the second or third week of May, 1923, Rosenstein Brothers began to use a quill made by Improta; that the winding of the quill made by Improta was the reverse of that of the first quill used by Rosenstein Brothers.

Lucile Le Conte testified for Improta that she worked for A. Meadows & Sons two years prior to October, 1922, and that she never saw any tinsel lame in the mill of Meadows & Son while she worked there; that since October, 1922, she has worked for Rosenstein Brothers and that the quills of lame used by that firm are wound from the point to the butt; that she did not use quills at Meadows & Sons and that she wound the thread on paper cops.

Abraham Bramson testified on behalf of Improta that he was a member of the firm of Bramson & Sachs from February, 1921, until June, 1923, and that that firm was engaged in the business of manufacturing silks; that his firm never did any work with lame and that he never got any lame from A. Meadow & Sons; that he did not see anybody bring lame into the mill of Bramson & Sachs and that if a warper had come into the mill of Bramson & Sachs and brought lame, he would have known of it. On cross-examination Bramson said that at the time he was a member of the firm of Bramson & Sachs he was interested in the Paterson Iron & Metal Company and gave some attention to its affairs; that he spent more time, however, at the Bramson & Sachs mill; that he was away from Bramson & Sachs once a week or something like that; that he could not swear that he had not been away from Bramson & Sachs oftener than once a week as he kept no record of the matter; *that Sachs, his partner, was in the mill nearly every day and that Vanore used to take orders from Sachs;* that he got no bill from anyone for lame.

The opinion.

The testimony of G. Vanore, Antonetta Grico, Wm. J. White, and Josephine Logan is convincing that G. Vanore conceived his invention in the second week of September, 1922, and that on the date of his conception he bored holes in the small end of quills, inserted them by means of the hole so bored on the spindle of the winding machine, wound them with lame the reverse of the way in which such quills had been previously wound, placed the quills so partially wound in a shuttle and wove with such quills about 15 inches of cloth. That testimony is not at odds with that of any other witness in the case and as it has not been impeached in any way, but is corroborated, it is entitled to full faith and credit. The testimony on behalf of Vanore as to his conception is corroborated by Frank Mingione to whom he disclosed it in the last week of September or the first week of October, 1922. At that time, according to Mingione, Vanore showed to Mingione a quill with a hole in both ends and explained to Mingione how the quill operated. As a result of that disclosure and at the request of Vanore, Mingione went to New York and sought to obtain a contract for the making of lame cloth. The New York concerns declined to make a contract on the ground that such cloth could be imported for less money than it would cost to make it in the United States. If the opinion of the New York concerns was based on the manufacture of lame cloth with the ordinary quill they were probably right.

The contention that the testimony of Antonetta Grico was false is not supported by the record. Antonetta Grico did testify that she held a spool of lame on a wire with her left hand while the lame was wound from the spool onto the quill and that no weight was used to prevent the spool from turning too fast. She did not testify that the spool could be wound without tension and was, therefore, not contradicted by the witnesses who testified that quills could not be wound with lame without tension. Tension may be applied without the use of a weight. Moreover it must be remembered that the first quill was only partially wound with lame and for a distance of only 2 inches from the small end and that for such a winding tension might not be required.

The testimony of Bramson that his firm never used lame, that no lame was ever billed to his firm and that if lame had come to the mill of Bramson & Sachs, he would have known of it, does not outweigh or impeach that of Vanore's witnesses. Bramson was, at times, absent from the mill of Bramson & Sachs and he admitted that at least once a week, if not oftener, his presence was required at the works of the Paterson Iron and Metal Co. Vanore stated that he received his orders to test the lame quills from his boss and his boss might have been either Bramson, Sachs or the superintendent or foreman of the mill. It is worthy of note that Vanore was not questioned on cross-examination as to the name of his boss and that Sachs, the partner of Bramson, was not called as a witness by Improta, notwithstanding the admission by Bramson that Vanore used to take orders from Sachs. We are satisfied that Vanore conceived the invention and disclosed it to his sister, William White, and Josephine Logan, early in September of 1922 and later in September or in the first week of October, 1922, to Mingione.

Whether Vanore reduced his invention to practice is quite another matter. After weaving with his quill 15 inches of cloth he put his invention to no further use whatever. He filed no application for a patent until more than a year after he had learned of the success of Improta and was spurred to that activity by a letter notifying the Jeffroy Silk Company, for whom Vanore worked on commission, that the company was infringing Improta's patent. Vanore's device was so simple that by boring a hole in the small end of the quill, that quill could be easily attached to the winding machine then in use and the record discloses nothing which would excuse Vanore from putting his quill into operation as a manufacturing device. He wove with his quill a little more than a foot of cloth and when he failed to secure a contract to put his conception to commercial use, he made no further effort to prove its industrial practicability and allowed more than two years to elapse before he filed his application for a patent.

The primary purpose of conferring on Congress the power to pass patent laws and to grant for a limited time patent rights to inventors was not to help or reward the inventor but to promote the progress of science and the useful arts for the benefit of the public and organized society. Such being the purpose of patent laws, inventors have no right without just cause or reason to conceal their inventions or to withhold them from the public. Inventors who do so not only defeat in some measure the chief end to be accomplished by patent laws but work a most serious injustice to those who later enter the field and expend their time, money and energies in developing a conception, reducing it to practice, making it useful to the public and in diligently prosecuting their claims to a patent. As against the inventor who is guilty of inexcusable delay in asserting his priority according to law, all the equities and presumptions are in favor of the inventor who, though later in conception, first files his application for a patent. An inventor may have a reasonable excuse for not promptly applying for a patent but if he has none and unreasonably delays in taking the necessary steps to secure a patent, the courts are warranted in presuming that his claim of reduction to practice was nothing better than an abandoned experiment. *Mason* v. *Hepburn*, 13 Appls. D. C. 86, 94, 95; 84 O. G. 147; *Warner* v. *Smith*, 13 Appls. D. C. 111, 114, 115, 116; 84 O. G. 311; *Howard* v. *Hey*, 18 Appls. D. C. 142, 144, 145; 95 O. G. 1647; *Quist* v. *Ostrom*, 23 Appls. D. C. 69, 74; 108 O. G. 2147.

While we are satisfied that Vanore was the first to conceive the invention, we are forced to the conclusion that his conception was not reduced to practice prior to the date on which Improta filed his application for a patent.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

1,027,864, M. B. Lloyd, Continuous process of manufacturing metal tubes; 1,027,865, same, Continuous tube mill; 1,388,434, G. V. Johnston, Method of and apparatus for butt-welding thin-gauge tubing; 1,435,306, same, Butt-welded thin-walled tubing; 1,611,875, H. Belmont, Welding apparatus, filed Mar. 28, 1928, D. C., E. D. N. Y., Doc. 3604, *Street & Tubes, Inc.*, v. *S. Jackson Tube Co., Inc.*

1,027,865. (See 1,027,864.)

1,029,328, C. W. Utzman, Plaster board and its method of manufacture; 1,034,746, same, Plaster board, D. C., N. D. Ohio, E. Div., Doc. 1620, *U. S. Gypsum Co.* v. *The American Gypsum Co.* Dismissed without prejudice June 4, 1928.

1,034,746. (See 1,029,328.)

1,050,441, R. A. Feasenden, Electric signaling apparatus; 1,050,728, same, Method of signaling; 1,239,852, F. K. Vreeland, Receiver of electrical impulses; 1,245,166, same, Method of transmitting and receiving high-frequency signal impulses, filed June 1, 1928, D. C., S. D. N. Y., Doc. E 45/241, *Radio Corp. of America et al.* v. *S. J. Novick et al.* (*Wholesale Radio Service Co.*).

1,050,728. (See 1,050,441.)

1,076,198, J. T. Dickson, Vacuum brake; 1,321,150, H. C. Root, Controlling valve for vacuum-operated power means, filed Apr. 16, 1928, D. C., E. D. N. Y., Doc. 3643, *Bragg-Kliesrath Corp.* v. *Farrell Auto Co.*

1,191,306 (a), 1,221,800, T. A. Hoover, Bumper for vehicles; 1,198,246, G. A. Lyon, Buffer for motor vehicles, filed Apr. 3, 1928, D. C., E. D. N. Y., Doc. 3612, *American Chain Co., Inc.*, v. *Franklin New York Co., Inc., et al.* Doc. 3613, *American Chain Co., Inc.*, v. *New York Locomobile Co. et al.* Doc. 3614, *American Chain Co., Inc.*, v. *Studebaker Corp. of America.* Doc. 3615, *American Chain Co., Inc.*, v. *Willys-Overland, Inc., et al.* Doc. 3616, *American Chain Co., Inc.*, v. *Stewart Warner Speedometer Corp. et al.* Same, filed Apr. 11, 1928, D. C., E. D. N. Y., Doc. 3626, *American Chain Co., Inc.*, v. *Long Island Star Co., Inc. et al.* Doc. 3636, *American Chain*

Co., Inc., v. *Grable-Berger Co., Inc.* Doc. 3637, *American Chain Co., Inc.*, v. *Rolls-Royce of America.* Same, filed Apr. 19, 1928, D. C., E. D. N. Y., Doc. 3646, *American Chain Co., Inc.*, v. *Von Alstyne Motor Corp. et al.*

1,191,306 (*b*), 1,221,800, T. A. Hoover, Bumper for vehicles, filed Apr. 13, 1928, D. C., E. D. N. Y., Doc. 3635, *American Chain Co., Inc.*, v. *Selector Syndicate, Inc.*

1,198,246. (See 1,191,306 (*a*).)

1,206,783. (See 1,275,654.)

1,221,800. (See 1,191,306 (*a*) and (*b*).)

1,239,852. (See 1,050,441.)

1,245,166. (See 1,050,441.)

1,262,860, 1,263,138, S. B. Smith, Incubator, D. C. Oreg. (Portland), Doc. E 8964, *S. B. Smith et al.* v. *W. W. Wood.* Decree for complainant May 28, 1928. Doc. E 8966, *S. B. Smith et al* v. *H. E. Lanum.* Decree as above.

1,263,138. (See 1,262,860.)

1,275,654, H. H. Boyce, Indicating means for motor-propelled vehicles; 1,206,783, same. Temperature-indicating system and apparatus for internal-combustion engines, D. C., E. D. N. Y., Doc. 3583, *H. H. Boyce et al.* v. *The Motormeter Co., Inc., et al.* Motion to dismiss as to G. H. Townsend granted May 1, 1928.

1,307,733, A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means, filed May 12, 1928, D. C., S. D. Calif., S. Div., Doc. E N-92-H, *The Bassick Mfg. Co.* v. *R. L. Smith.*

1,307,734. (See 1,307,733.)

1,321,150. (See 1,076,198.)

1,360,256, 1,528,178, E. Anderson, Can opener, filed May 29, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E N-100-J, *Star Can Opener Co.* v. *S. H. Kress & Co.*

1,388,434. (See 1,027,864.)

1,389,067, 1,487,971, M. D. Neilson, Undergarment for women, D. C., S. D. N. Y., Doc. E 38/194, *Winget Kickernick Co. et al.* v. *The McCall Co.* Patents sustained and infringed May 31, 1928.

1,406,335, G. Boulton, Lining-trimming machine; 1,578,375, E. Sehl, Cutting machine, filed Apr. 26, 1928, D. C. Mass., Doc. E 2295-S, *United Shoe Machinery Corp.* v. *N. W. Mathey.*

1,429,175. (See 1,465,598.)

1,435,306. (See 1,027,864.)

1,456,528, H. D. Arnold, Electric discharge device; 1,459,412, A. McL. Nicolson, Thermionic translating device; Re. 15,278, I. Langmuir, Electron-discharge apparatus, filed Mar. 20, 1928, D. C., E. D. N. Y., Doc. 3567, *Radio Corp. of America et al.* v. *C. G. Rosecall.*

1,459,412. (See 1,456,528.)

1,465,598, J. de Brey, Process for the treating of hydrocarbons; 1,429,175, H. E. Thompson, Process of treating natural gas and product thereof; 1,523,314, same, Natural-gas gasoline, D. C. Del. (Wilmington), Doc. E 575, *Carbide & Carbon Chemicals Corp.* v. *Phillips Petroleum Co.* Dismissed for want of equity June 2, 1928.

1,473,756, J. Brogden, Pipe-bending machine; 1,479,204; T. F. Oechsle, same, filed Mar. 22, 1928, D. C., E. D. N. Y., Doc. 3582, *D. Lupton's Sons Co.* v. *M. Husid.*

1,479,204. (See 1,473,756.)

1,487,071. (See 1,389,067.)

1,523,314. (See 1,465,598.)

1,528,178. (See 1,360,256.)

1,571,916, L. J. Grubman, Method and means for applying eye mountings in doll heads; Re. 16,433, L. J. Grubman, Eye mounting for dolls, filed Apr. 26, 1928, D. C., E. D. N. Y., Doc. 3649, *Grubman Engineering & Mfg. Co., Inc.*, v. *E. Goldberger.*

1,578,375. (See 1,406,335.)

1,611,875. (See 1,027,864.)

Re. 15,424, C. E. Starr, Driving mechanism for motor vehicles, Re. 15,711, A. F. Baker, same; Re. 15,932, C. S. Evans, Transmission mechanism, D. C., N. D. Ohio, E. Div., Doc. 1985, *Perfecto Gear Differential Co. et al.* v. *The Van Dorn & Dutton Co.* Dismissed without prejudice June 4, 1928.

Re. 15,711. (See Re. 15,424.)

Re. 15,932. (See Re. 15,424.)

Re. 16,433. (See 1,571,916.)

Des. 69,569, Des. 72,596, R. G. Cowan, Flower holder; Des. 72,638, W. A. Sinz, same, D. C., N. D. Ohio, E. Div., Doc. 2545, *Cowan Pottery Studio, Inc.*, v. *Fries & Schuele.* Dismissed without prejudice as to Des. 72,596 and Des. 72,638; Des. 69,569 held valid and infringed (notice dated May 28, 1928).

Des. 72,596. (See Des. 69,569.)

Des. 72,638. (See Des. 69,569.)

Adjudicated Patents.

(C. C. A. Wis.) Walten patent, No. 1,612,788, for improved tire flap, *Held* not so clearly wanting in invention as to authorize determination of invalidity without hearing. *C. O. Tingley & Co.* v. *Badger Rubber Works*, 26 F. (2d) 159.

(D. C. N. Y.) Wheeler patent, No. 1,405,173, for pumping apparatus, claim 1 *Held* valid and infringed. *Salvage Process Co.* v. *James Shewan & Sons*, 26 F. (2d) 258.

(D. C. N. Y.) Wheeler patent, No. 1,480,482, for pumping apparatus, claims 1, 2, 3, and 6 *Held* not infringed. *Id.*

(D. C. N. Y.) Engstrand patent, No. 1,554,076, for pumping apparatus, claim 3 *Held* not infringed. *Id.*

(D. C. N. Y.) Sundback patent, No. 1,322,650, for fastener for slit and other closures, claims 4, 5, 13, and 20 *Held* valid and infringed. *Hookless Fastener Co.* v. *H. L. Rogers Co.*, 26 F. (2d) 264.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 24, 1928.

[VOL. 372. No. 4.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 245,894. CLOVER COAL COMPANY, INC., Philadelphia, Pa. Filed Mar. 17, 1927.

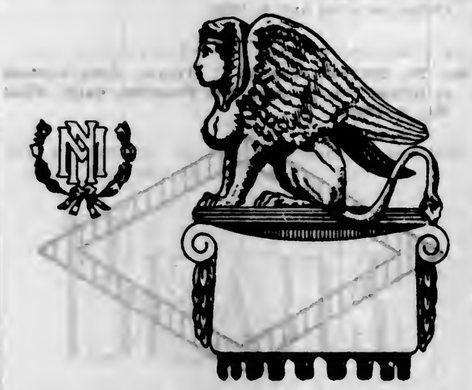


No claim is made to the words "Quality, Quick Service," and "Quantity."

For Coal.

Claims use since Dec. 22, 1926.

Ser. No. 259,498. LA MAROQUINERIE NATIONALE, SOC AME., Brussels, Belgium. Filed Dec. 30, 1927.



For Leather, Chamois Leather, and Skins.

Claims use since January, 1925.

Ser. No. 263,996. WALDEMAR VERNET, New York, N. Y. Filed Mar. 29, 1928.

RubberSan

The word "Rubber" is disclaimed apart from the mark as shown.

For Rubber Sponges and Rubber Sponges in the Shape of Soap Dishes and in the Shape of Various Other Articles.

Claims use since Mar. 5, 1928.

Ser. No. 264,761. J. FREDERICK LEARY, Philadelphia, Pa. Filed Apr. 13, 1928.



For Flowers.

Claims use since Apr. 2, 1928.

Ser. No. 266,266. PITTSBURGH COAL COMPANY, Pittsburgh, Pa. Filed May 11, 1928.



Exclusive use of the words "Pulverizer, Fuel," and "Pittsburgh, Pa." is disclaimed except in connection with the trade-mark as shown.

For Coal, Except Smithing Coal.

Claims use since Apr. 21, 1928.

Ser. No. 266,635. E. J. LAVINO AND COMPANY, Philadelphia, Pa. Filed May 18, 1928.

K-N

The mark consists of the letters "K—N" upon an oval background of red.
For Chrome Ore.
Claims use since Mar. 13, 1928.

Ser. No. 266,845. ORIC O. WHITE, doing business as International Fibre Company, Minneapolis, Minn. Filed May 22, 1928.

NOR MOS

For Peat for Use as Bedding Material for Live Stock and Poultry.
Claims use since Apr. 26, 1928.

Ser. No. 267,005. MIDLAND COAL SALES COMPANY, Cincinnati, Ohio. Filed May 25, 1928.



For Coal.
Claims use since March, 1926.

Ser. No. 267,198. W. N. JENNINGS, doing business as Central Coal and Supply Company, Moberly, Mo. Filed May 29, 1928.

OL Karbon

The OK Coal

Exclusive use of the words "Karbon" and "Coal" is disclaimed except in connection with the mark as shown.
For Coal.
Claims use since Apr. 27, 1927.

CLASS 2.

Receptacles.

Ser. No. 263,629. THE WHITE TAR COMPANY OF NEW JERSEY, INC., Kearny, N. J. Filed Mar. 22, 1928.

LOX-IN

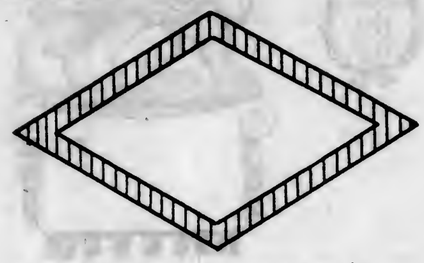
The lining appearing in the drawing is to indicate shading only.
For Garment Bags of Paper or Cloth.
Claims use since about Jan. 9, 1928.

Ser. No. 265,971. LEON C. LAUB, New York, N. Y. Filed May 5, 1928.

IRISWARE

For Articles Made of Paper with a Glazed Process Finish, Plates, Candy Boxes, Boudoir Boxes, Flowerpots, Trays, Bouquet Holders, Bowls, Salt and Pepper Shakers, Baskets, and Vases.
Claims use since Apr. 1, 1928.

Ser. No. 266,170. RICHARD C. HYLAND, doing business as Hyland Bag Company, San Francisco, Calif. Filed May 9, 1928.

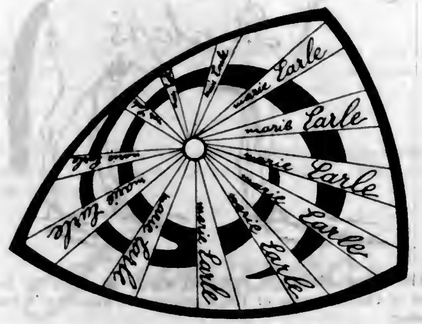


The drawing is lined for the color red.
For Bags Made Wholly or Partially of Burlap.
Claims use since Mar. 1, 1925.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 267,068. MARIE EARLE, INC., New York, N. Y. Filed May 26, 1928.



For Toilet Soaps.
Claims use since Jan. 10, 1926.

Ser. No. 267,099. TIFFANY & COMPANY, New York, N. Y. Filed May 26, 1928.



For Cleaning and Polishing Material for Jewelry and Metal Ware.
Claims use since 1900.

Ser. No. 267,241. COLGATE & COMPANY, Jersey City, N. J. Filed May 31, 1928.

BEADS

For Soap.
Claims use since May 18, 1928.

Ser. No. 267,276. RIVERSIDE MANUFACTURING CO., St. Louis, Mo. Filed May 31, 1928.

HEXAMO

For Neutral Soap Compounds.
Claims use since May 1, 1928.

Ser. No. 267,505. THE PALMOLIVE-PEET COMPANY, Chicago, Ill. Filed June 5, 1928.

PADRE

For Soap.
Claims use since July 1, 1923.

Ser. No. 267,540. CLARENCE S. DADE, doing business as Aunt Lizzie's Glass Cleaner Co., Jamaica Plain, Mass. Filed June 6, 1928.

Aunt LIZZIE'S

For Cleaner for Glass, Windows, Mirrors, Automobile Windshields, Eyeglasses, and Similar Glass Surfaces.
Claims use since Apr. 25, 1928.

Ser. No. 267,898. JAMES B. MCCOMB, New York, N. Y. Filed June 12, 1928.

Hotelo

For Powder to be Dissolved in Water for Use in Cleaning and Removing Stains from Textile Fabrics, Such as Carpets, Curtains, Tapestries, Upholstered Furniture, and the Like.
Claims use since May 25, 1928.

CLASS 5.

Adhesives.

Ser. No. 263,943. GÜNTHER WAGNER, Hanover, Germany. Filed Mar. 29, 1928.



For Adhesive Paste, Glue, and Mucilage.
Claims use since 1926.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 223,027. HILLIARD L. FIELDS, doing business as Israel Medicine Company, Hammond, Ind., and Detroit, Mich. Filed Nov. 9, 1925.

KING'S WONDER



For Body Tonics in Liquid Form for Treatment of Gastritis, Heartburn, Indigestion, Bloating, and General Debility, and a Female Tonic in Liquid Form for Derangements of the Female Organs.
Claims use since Jan. 1, 1925.

Ser. No. 232,108. WILFRED LABORATORIES, INC., New York, N. Y. Filed May 22, 1926.

EX-OL

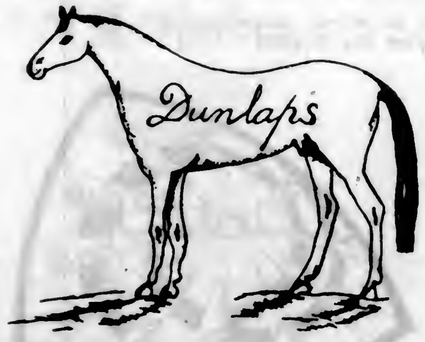
For Toilet Preparations—Namely, Scalp Lotion.
Claims use since about Oct. 15, 1921.

Ser. No. 232,110. WILFRED LABORATORIES, INC., New York, N. Y. Filed May 22, 1926.

ASTRINGENT MASK

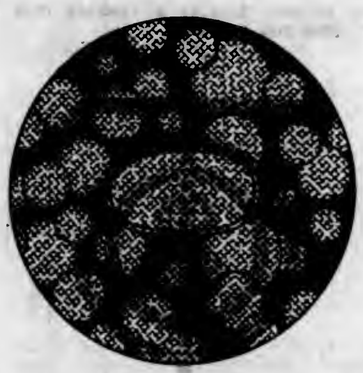
The word "Astringent" is disclaimed apart from the mark.
For Toilet Preparations—Namely Facial Treatment Preparation in the Form of a Jelly.
Claims use since about Oct. 15, 1921.

Ser. No. 249,516. ETHELBERT HUGH DUNLAP, doing business as Dunlap Medicine Company, Memphis, Tenn. Filed May 25, 1927.



The name "Dunlaps" appearing in the drawing is a part of the facsimile of the signature of applicant's predecessor.
For Medicine for the Treatment of Colic in Mules and Horses.
Claims use since Jan. 10, 1898.

Ser. No. 254,343. C. W. BEGGS, SONS & Co., Chicago, Ill. Filed Sept. 3, 1927.



The trade-mark consists of a substantially oval orange-colored panel surrounded by a black background portion disclosing irregularly-spaced and partly-overlapping orange disks.
For Cosmetics—Namely, Face Powder, Face Cream, and Rouge.
Claims use since about Feb. 1, 1926.

Ser. No. 256,803. AMEBA CHEMICAL CO., Minneapolis, Minn. Filed Oct. 31, 1927.

BUNNY



For Tooth Paste for Children.
Claims use since June 30, 1927.

Ser. No. 256,869. WILLIAM P. HARRIS, doing business as Harris Drug Co., Athens, Ga. Filed Nov. 1, 1927.

BLACK and TAN

For Facial and Skin Creams, Hair Dressing Preparations, Healing Ointment, Tooth Paste, and Deodorant.
Claims use since on or about May 1, 1927.

Ser. No. 258,222. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Nov. 30, 1927.

Aurophos

For Medicinal Gold Preparation for the Treatment of Tuberculosis.
Claims use since July 22, 1927.

Ser. No. 258,523. GAS GRAIN TREATER CO., Portland, Oreg. Filed Dec. 6, 1927.



Applicant disclaims the words "Trade-Mark" from the mark as shown in the drawing, as, of course, this is not capable of exclusive appropriation.
For Liquid Fuel in Which Alcohol and the Like is the Base.
Claims use since Nov. 28, 1927.

Ser. No. 259,013. RAYMOND O. MURPHY, doing business as the Stillwater Remedy Co., Stillwater, Minn. Filed Dec. 16, 1927.

Velvet

For Stomach Tonic, Indigestion Remedy, and a Preparation for the Treatment of Acid Stomach.
Claims use since Aug. 3, 1927.

Ser. No. 259,646. CLABE RUSSELL, Fort Worth, Tex. Filed Jan. 3, 1928.

CUR-O-DAN



C. RUSSELL

The portrait shown in the accompanying drawing is that of applicant.
For Preparation for Dandruff, Falling Hair, and Dry Scalp.
Claims use since Nov. 14, 1927.

Ser. No. 259,807. KARLIN LABORATORIES, INC., New York, N. Y. Filed Jan. 7, 1928.

Elizabethan

For Toilet Preparations, Including the Following, Face Cream, Skin Tonic, Liquid Face Powder, Vanishing Cream, Tissue Cream, Astringent Lotion, Velvet Cream, Face Powder, Face Lotion, Lip Stick and Rouge.
Claims use since Jan. 5, 1927.

Ser. No. 259,976. TEMMLER-WERKE VEREINIGTE CHEMISCHE FABRIKEN HERMANN TEMMLER, Berlin-Johannisthal, Germany. Filed Jan. 11, 1928.

Siran

For Medical Preparation for Cough, Whooping Cough, Asthma, Bronchitis, Grippe, and Lung Trouble.
Claims use since September, 1908.

Ser. No. 260,455. JAMES MCKEE, doing business as The O-Three Laboratory, Media, Pa. Filed Jan. 21, 1928.

REOSONE

For Medicated Oils and Ointments for Use Internally to Supply an Augmented Amount of Oxygen to the Body Tissues and for Use Externally as an Antiseptic.
Claims use since on or about Dec. 2, 1927.

Ser. No. 260,999. HERBERT L. HAAG, doing business as Argray Drug Co., Indianapolis, Ind. Filed Feb. 1, 1928.

ARGRAY

For Tablets for Kidney, Bladder, and Prostate Trouble and for Backache, Lame Back, Rheumatism, and Congestion of the Kidneys.
Claims use since January, 1927.

Ser. No. 261,362. JEROME J. GLADKE, doing business as The Painalac Co., Elmira, N. Y. Filed Feb. 8, 1928.

Painalac

For External Preparation for Relieving Pain in Cases of Neuralgia, Neuritis, and Rheumatism.
Claims use since Nov. 18, 1927.

Ser. No. 261,581. LEO W. MAUCK, doing business as Multicreme Company, Lyons, Kans. Filed Feb. 11, 1928.



For Cold Cream, Ointment, Tooth Paste, Gum Massage, and Body Deodorant.
Claims use since Nov. 5, 1927.

Ser. No. 262,693. BROTHERS CORPORATION, New York, N. Y. Filed Mar. 7, 1928.

ADUSOL

For Prepared Medicine a Cholagogue for Use in Stimulating the Hepatic Functions.
Claims use since Jan. 8, 1928.

Ser. No. 262,778. THE SYDNEY ROSS CO., Newark, N. J. Filed Mar. 7, 1928. Under Section 5b, act of 1905, as amended 1920.

ROSS

For Analgesic and Counterirritant.
Claims use since June, 1927.

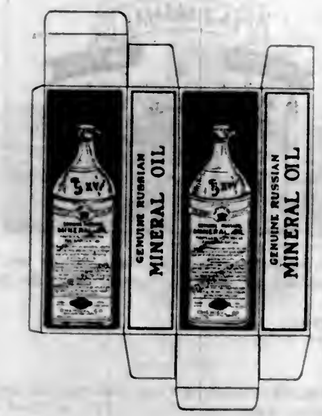
Ser. No. 262,818. DAVID H. PIKE, doing business as Salutary Products Company, Council Bluffs, Iowa. Filed Mar. 8, 1928.



The lines on the drawing indicate colors as actually used on the trade-mark. All parts except the figure five and the words "Trouble Shooter" are lined to represent blue, while the figure five and the words "Trouble Shooter" are lined to represent red. The words "Product" and "Council Bluffs, Iowa" appearing on the drawing are hereby disclaimed apart from the mark shown on the drawing.

For Line of Drugs and Medicines for Hogs and Stock Consisting of Trouble Shooter for Hogs, a Combination of Drugs for the Treatment of Enteritis, Pneumonia, Indigestion, Hog Flu, Lung Worms, Thorn Head Worms, Rickets, Thumps, Hemorrhagic Septicemia, Diarrhoea and Scours, and all Disorders Known to the Hog Family, Equalized Hog Wants, a Tankage Compound, a Combination of Tankage with Mineral Salts for the Treatment of Bowel Disorders Among Pigs, a Tankage Compound, Poultry Trouble Shooter, a Combination of Drugs for the Treatment of Chicken Disorders and Diseases, Brood Sow Powder, a Physic and Condition Powder for Brooding Sows, Worm Oil, Special Worm Powder, Fumigant Dip, Dry Dip, Mite Killer, Medicated Oil, Horse Powder, a Physic and Conditioner for Horses, Mineral for Hog, a Combination of Mineral Salts, a Physic for Hog Disorders, Mineral for Cattle, a Combination of Mineral Salts for Physic for the Treatment of Bowel Disorders in Cattle, Mineral for Sheep, a Combination of Mineral Salts for Physic for the Treatment of Bowel Disorders in Sheep, and Special Mineral, a Special Combination of Mineral Salts for the Treatment of Special Cases of Disorders of the Bowels in Hogs, Cattle and Sheep, the use of which Preparations cover all Common Hog Diseases, Swine Plague, Hemorrhagic Septicemia, Hog Influenza, Worms, Enteritis in Different Forms, Indigestion and General Appetizer.
Claims use since Jan. 1, 1928.

Ser. No. 262,852. HYMAN HUEBSCHMAN, doing business as Ritz Chemical Company, Brooklyn, N. Y. Filed Mar. 9, 1928.



All wording appearing on the drawing, with the exception of the word "Ritz", is disclaimed apart from the mark as shown. The representation of the carton and bottle are also disclaimed. "Russian Mineral Oil" is the translation of the Russian words.
For Russian Mineral Oil for Medicinal Use.
Claims use since Sept. 8, 1927.

Ser. No. 263,019. KAY-TEE PRODUCTS CO., Cleveland, Ohio. Filed Mar. 12, 1928.

FLASH

For Fluids for Filling Cigar and Cigarette Lighters.
Claims use since Oct. 24, 1927.

Ser. No. 263,344. PETROLEUM DERIVATIVES COMPANY, Montclair, N. J. Filed Mar. 17, 1928.

LAVAP

For Toilet Lotion and Cleanser for the Skin.
Claims use since Mar. 8, 1928.

Ser. No. 263,345. PETROLEUM DERIVATIVES COMPANY, Montclair, N. J. Filed Mar. 17, 1928.

VAPON

For Toilet Lotion and Cleanser for the Skin.
Claims use since Mar. 8, 1928.

Ser. No. 263,759. MRS. MARGUERITE FREDERICK, doing business as Velvo Laboratories, Grand Rapids, Mich. Filed Mar. 26, 1928.

VELVO
Velvo Laboratories
GRAND RAPIDS
MICHIGAN

No claim is made to the words "Grand Rapids, Michigan," apart from the mark as shown.
For Ointment for the Treatment of Hemorrhoids.
Claims use since Feb. 1, 1927.

Ser. No. 264,223. FELIX ALFARO DIAZ, doing business as Laboratoires Filarysine, Santurce, P. R. Filed Apr. 3, 1928.

BRONKITOS
DU DR. DUMONT

For Pharmaceutical Preparation for Diseases of the Respiratory Organs.
Claims use since Sept. 15, 1926.

Ser. No. 264,326. ALFRED PETIT, Juan-Les-Pins, France. Filed Apr. 4, 1928.

ROCKLES

For Dental Products Presented in Liquid Form and Designed to Asepticize Dental Caries.
Claims use since Sept. 1, 1927.

Ser. No. 264,603. PHILIPP BAUER, CO. INC., New York, N. Y. Filed Apr. 9, 1928.

HERBALIN

For Chemicals Suitable for the Destruction of Weeds and Similar Plants.
Claims use since Mar. 21, 1928.

Ser. No. 264,683. THEODORE HOFFMAN, New York, N. Y. Filed Apr. 11, 1928.

SOUBISE

For Perfumes, Toilet Waters, Bleach Cream, Beauty Cream, Cold Cream, Cleansing Cream, Refreshing Cream, Tissue Cream, Skin Cream, Face Bleach Powder, Foot Powder, Nail Powder, Talcum Powder, Sachets, Perfumed Salts, Bath Salts, Smelling Salts, Talc, Nail Cream, and Nail Bleaches.

Claims use since Jan. 1, 1927.

Ser. No. 264,694. MITEX PRODUCTS CO., Portland, Oreg. Filed Apr. 11, 1928.

MITEX

For Medicinal Relief for Rheumatism, Lumbago, Sciatica, and Neuritis.

Claims use since Feb. 22, 1928.

Ser. No. 264,960. MARCEL BLUME, Paris, France. Filed Apr. 17, 1928.

FAIRYLAND

For Rouge, Lip Sticks, Face Powder, and Beauty Cream.

Claims use since Dec. 22, 1927.

Ser. No. 265,079. SIMON R. ZIMMERMAN, doing business as Simon R. Zimmerman Co., Savannah, Mo., Filed Apr. 18, 1928.

Zimm's TRADE MARK

The words "Trade-Mark" are disclaimed apart from the mark shown in the drawing.

For General Tonic for the Treatment of Diseases of Hogs and Poultry and Particularly Worms and Flu.

Claims use since about Dec. 15, 1927.

Ser. No. 265,132. KENNETH B. H. ADOLPHUS, Chicago, Ill. Filed Apr. 20, 1928.



Applicant disclaims exclusive right to the use of the words "Oriental" and "Incense" apart from the mark as shown.

For Incense.

Claims use since Apr. 2, 1928.

Ser. No. 265,810. SALTINE COMPANY, Kansas City, Mo. Filed May 2, 1928.

SALTINE

For Tooth Powder.

Claims use since Apr. 15, 1927.

Ser. No. 266,088. ERSKINE C. MASON, doing business as Mason's Pharmacy, Phoenix, Ariz. Filed May 8, 1928.



For Oil for Use as a Tonic and Mild Laxative.

Claims use since Nov. 15, 1927.

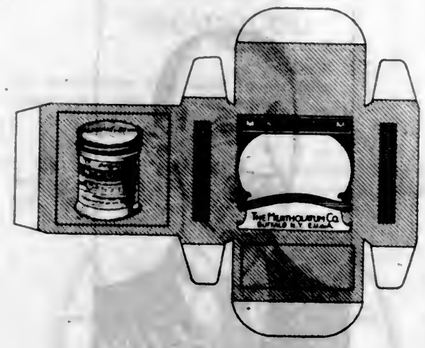
Ser. No. 266,211. ROBERT W. MIRGELER, doing business as The R. W. Mirgeler Co., Rockford, Ill. Filed May 10, 1928.

CINCOPYRINE

For Pharmaceutical Preparation in Capsule Form for the Treatment of Rheumatism, Lumbago, Arthritis, Neuralgia, and Migraine.

Claims use since Sept. 17, 1927.

Ser. No. 266,386. THE MENOTHOLATUM COMPANY, Wichita, Kans., and Buffalo, N. Y. Filed May 14, 1928.



The signature is that of A. A. Hyde, the founder of applicant's business. The drawing is lined to indicate the colors green and blue. No claim is made to the exclusive use of the representation of the carton or jar or the words "Buffalo, N. Y. and E. U. de A."

For Salve for External Application in the Treatment of Inflammations and Eruptions of the Skin and Mucous Membrane and in the Treatment of Croup, Sore Throat, Catarrh, and Like Afflictions Involving or Resulting from Congestion.

Claims use since 1919.

Ser. No. 266,405. SHARP & DOHME, INCORPORATED, Baltimore, Md. Filed May 14, 1928.



No claim is made to the words appearing on the representation of a label except the name "Sharp & Dohme," or to the representation of a label apart from the mark shown in the drawing. Applicant is the owner of registered Trade-Mark No. 101,982 for the words "Sharp & Dohme" perfected under 10-year proviso.

For Tonic in Liquid form for Stimulating Enfeebled Digestion and Faulty Nutrition, Treating Anæmia, Chlorosis, and for use in Convalescence from Wasting Diseases or those of Long Duration and During Recovery from Major Surgical Operations.

Claims use since Sept. 8, 1909.

372 O. G.—51

Ser. No. 266,434. VINCENT MONACO, doing business as Foam-Olio Company, Jersey City, N. J. Filed May 15, 1928.

Foam-Olio

The word "Olio" is disclaimed apart from the mark shown.

For Shampoo.

Claims use since about May 1, 1928.

Ser. No. 266,479. CARL V. POHLSON, Pawtucket, R. I. Filed May 16, 1928.

RAINBOW LOGS

No claim is made to the word "Logs" apart from the mark as shown in the drawing.

For Combustible Package Containing a Chemical for Coloring the Flames in a Fireplace.

Claims use since April, 1928.

Ser. No. 266,500. EDWARD WESLEY & COMPANY, Cincinnati, Ohio. Filed May 16, 1928.

HAIR GROOM

For Hair-Combing Liquid.

Claims use since Nov. 20, 1922.

Ser. No. 266,506. AMERICAN DRUG & CHEMICAL CO., Minneapolis Minn. Filed May 17, 1928.

Chloro-Zol
Kills Germs

The lining of the drawing designating shading only, the words "Kills Germs" being disclaimed apart from the drawing shown.

For Germicide, Antiseptic, and Deodorant Powder Put up in Colored Capsules but not Including White or Colorless Capsules.

Claims use since on or about May 27, 1925.

Ser. No. 266,539. JAMES P. HORGAN, doing business as H. and S. Products Co., Manchester, N. H. Filed May 17, 1928.

Pep-C-Men

For Preparation for Treating Pains.
Claims use since Jan. 28, 1919.

Ser. No. 266,637. ACME PRODUCTS LIMITED, Winnipeg, Canada, and Detroit, Mich. Filed May 19, 1928.



Applicant makes no claim to the words "Vital As" except in combination with the trade-mark as shown in the drawing.
For Medicines—Namely, Medicines for the Disorders of the Stomach, Kidneys, Bowels, and Blood.
Claims use since Mar. 31, 1928.

Ser. No. 266,681. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed May 19, 1928.

ADREPHINE

For Astringent to the Accessible Respiratory Mucous Membranes.
Claims use since Jan. 19, 1928.

Ser. No. 266,682. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed May 19, 1928.

JELISSA

For Surgical Lubricant.
Claims use since Mar. 26, 1928.

Ser. No. 266,684. CURTIS S. PHILLIPS, San Antonio, Tex. Filed May 19, 1928.



The trade-mark consists of the portrait and signature of the applicant.
For Preparation for the Treatment of Pyorrhea.
Claims use since Dec. 9, 1925.

Ser. No. 266,737. LIVEROGEN COMPANY, Cincinnati, Ohio. Filed May 21, 1928.

LIVEROGEN

For Tablets for the Correction of Weakness, Loss of Appetite, and Resulting Malnutrition, Certain Forms of Anemia, and General Run-Down Condition.
Claims use since Apr. 30, 1928.

Ser. No. 266,777. EDWIN HILL ANDERSON, New York, N. Y. Filed May 22, 1928.

ZOL
SULFUR BATH

No claim is made to the exclusive use of the words "Sulfur Bath" apart from the mark shown in the drawing.
For Sulphur Used for Bathing Purposes.
Claims use since Apr. 18, 1928.

Ser. No. 266,779. EDWIN HILL ANDERSON, New York, N. Y. Filed May 22, 1928.

ZYT
SULPHUR
BATH

No claim is made to the exclusive use of the words "Sulphur Bath" apart from the mark shown in the drawings.
For Sulphur Used for Bathing Purposes.
Claims use since Apr. 18, 1928.

Ser. No. 266,853. DAVIES, ROSE & CO., LTD., Boston, Mass. Filed May 28, 1928.

SHADOCOL

For Radiopaque Diagnostic Preparation.
Claims use since Aug. 6, 1927.

Ser. No. 266,898. WILLARD L. THOMPSON, doing business as Alkura Dispensary, (Unincorporated), Madison, Wis. Filed May 23, 1928.

ALKURA

For Alkalizing Medical Preparations for the Treatment of Abnormal Conditions Due to or Accompanied by Hypoalkalinity of the Blood or an Excessive Acidity of the Secretions.
Claims use since May 15, 1928.

Ser. No. 266,971. THE BRITISH DRUG HOUSES, LIMITED, London, England. Filed May 25, 1928.

RADIOMALT

For Medicated Malt Product for Human Use.
Claims use since Mar. 31, 1926.

Ser. No. 267,066. LES ETABLISSEMENTS POULENC FRERES, Paris, France. Filed May 26, 1928.

GITAÏNE

For Chlorhydrate of Metaamino-Stovaine.
Claims use since Feb. 16, 1928.

Ser. No. 267,079. RAINIZED PROCESS LTD., New York, N. Y. Filed May 26, 1928.

RAINIZED

For Waterproofing Compound in Liquid Form for Protecting Surfaces of Straw, Textiles, Leather, and the Like.
Claims use since Jan. 30, 1928.

Ser. No. 267,231. ANTHONY J. BOOKHOLD, doing business as M. O. Chemical Co., Oregon City, Oreg. Filed May 31, 1928.

M-O

For Cough Drops.
Claims use since Jan. 9, 1928.

Ser. No. 267,355. THE FARASTAN COMPANY, Ardmore, Pa. Filed June 2, 1928.

FARASTAN

For Preparation Used in the Treatment of Rheumatism, Arthritis, Neuritis, Neuralgia, Lumbago, Sciatica, Gout, Influenza, Kidney and Bladder Disorders, and Colds.
Claims use since May 31, 1928.

Ser. No. 267,358. GAMADIN LABORATORIES, INC., Philadelphia, Pa. Filed June 2, 1928.

GAMADIN

For Preparation used in the Treatment of Rheumatism, Arthritis, Neuritis, Neuralgia, Lumbago, Sciatica, and Gout.
Claims use since May 31, 1928.

Ser. No. 267,429. THE LACTONA COMPANY, Chicago, Ill. Filed June 4, 1928.

LACTONA

For Tooth Paste.
Claims use since May 16, 1928.

Ser. No. 267,438. EDWARD MORRISH, St. Louis, Mo. Filed June 4, 1928.

METRO-OIL

No claim is made to the word "Oil" apart from the mark shown in the drawing.
For Antiseptic, Analgesic, Antiphlogistic Preparation for the Treatment of Infections of the Nasal and Accessory Sinuses of the Nose and Throat.
Claims use since about April 21, 1928.

Ser. No. 267,464. PETER SANTURELLO, doing business as Santurello Beauty Parlor, Columbus, Ohio. Filed June 4, 1928.

Perma-SET

For Hair-Dressing Preparation.
Claims use since Jan. 1, 1928.

Ser. No. 267,522. LEWIS C. TROHN, New York, N. Y. Filed June 5, 1928.

noRun

For Preparation for Treating Fabrics, Particularly Hosiery to Increase the Wearing Properties Thereof.
Claims use since about May 26, 1928.

Ser. No. 267,574. ISRAEL O. GOLDSTEIN, doing business as Goldstein Laboratories, Philadelphia, Pa. Filed June 6, 1928.

FRIS

For Hair Tonic.
Claims use since Feb. 1, 1928.

Ser. No. 267,575. GEORGES LOUIS GUILLEVIC, Paris, France. Filed June 6, 1928.

PYRÉTHANE

For Preparation Used in the Treatment of Neuralgia and as a Febrifuge.
Claims use since Feb. 28, 1913.

Ser. No. 267,591. HENRY M. LANDAU, Boston, Mass. Filed June 6, 1928.

LAXAFRU

For Laxative.
Claims use since May 18, 1928.

Ser. No. 267,592. LA SALLE MEDICINE COMPANY, Los Angeles, Calif. Filed June 6, 1928.

DIUTONE

For Diuretic and Stimulant for the Kidneys.
Claims use since Sept. 1, 1927.

Ser. No. 267,612. SOCIETE ANONYME LES DENTIFRICES DU DOCTEUR PIERRE, Nanterre, France. Filed June 6, 1928.

LES 5 FLEURS

For Perfume, Toilet Water, Face Powder, Talcum Powder, Face Creams, Rouge Lipsticks, Lotion for the Skin and Hair, Sachet, Brilliantine, Bath Salts, and Dentifrices.
Claims use since Jan 1, 1926.

Ser. No. 267,670. ANGELINA SACCO, New Orleans, La. Filed June 7, 1928.



The trade-mark consists of a portrait of applicant.
For Preparation for the Treatment of Skin Diseases.
Claims use since May 26, 1928.

Ser. No. 267,757. THE COOPER LABORATORIES, INC., Dayton, Ohio. Filed June 9, 1928.

SARGON

For Medicinal Tonic Used as a Treatment Designed to Build Up Deficient Metabolism, Restore the Hæmoglobin of the Blood to Normal, Stimulate the Action of the Liver and Gall Bladder, and Thereby Improve Nutrition.
Claims use since Nov. 17, 1927.

Ser. No. 267,785. THE NORWICH PHARMACAL COMPANY, Norwich, N. Y. Filed June 9, 1928. Under 10 year proviso.

Norwich

For Alteratives, Analgesics, Anaphrodisiacs, Anæsthetics, Anodynes, Antacids, Anthelmintics, Antichlorotics, Antimetics, Antiepileptics, Antigalactagogues, Antigonorrheics,

Antihydrotics, Antilithics, Antineuralgics, Antiparasitics, Antiperiodics, Antiphlogistics, Antipyretics, Antirheumatics, Antiseptics, Antisialagogues, Antispasmodics, Antitubercular, Antizymotics, Aperients, Aphrodisiacs, Astringents, Cardiac Sedatives, Cardiac Stimulants, Carminatives, Cathartics, Caustics, Cerebral Depressants and Stimulants, Cholagogues, Cicatrizants, Constructives, Counterirritants, Demulcents, Deodorants, Deoxidizers, Depilatories, Depressants, Diaphoretics, Digestives, Discutients, Disinfectants, Diuretics, Ecbolics, Emetics, Emmenagogues, Errhines, Escharotics, Expectorants, Galactagogues, Gastric Tonics, Germicides, Hæmostatics, Hæmatinics, Hypnotics, Irritants, Laxatives, Motor-Depressants, Motor-excitants, Mydriatics, Myotics, Narcotics, Nervines, Nutrients, Oxytocics, Parasiticides, Ptyalagogues, Purgatives, Pustulants, Refrigerants (Medicinal), Resolvents, Respiratory Depressants, Respiratory Stimulants, Restoratives, Rubefacients, Sedatives, Sialagogues, Soporifics, Sternutatories, Stimulants (Cardiac, Cerebral, Hepatic), Stomachics, Styptics Sudorifics, Teniafuges, General Tonics, Vasoconstrictors, Vasodilators, Vascular Sedatives, Vermicides, Vesicants; Chemicals and Drugs—Namely, the Following: Acacia, Acetanilid, Acetone, Acetphenetidin; Acids—Namely, Acetic, Acetylsalicylic, Arsenous, Benzoic, Boric, Carbolic, Citric, Gallic, Hydriodic, Hydrochloric, Hypophosphorous, Sactic, Nitric, Nucleinic, Oleic, Oxalic, Phosphoric, Glacial Phosphoric, Picric, Salicylic, Stearic, Sulphuric, Tannic, Tartaric, Aconite (Leaves and Root), Aconitine, Adepslanæ, Agaric, Agaricin, Alcohol, Aletris, Alfalfa, Aloes, Aloin, Althæa; Aluminum Compounds—Namely, the Following: Alum, Ammonium; Alum, Exsiccated; Aluminum, Acetate, Sulphate; Amidopyrine; Ammonia and Ammonium Compounds—Namely, Ammonia Water; Ammonium Bromide, Carbonate, Chloride, Citrate, Hypophosphite, Iodide, Salicylate, Sulphoichthyolate, Valerate; Angelica Seed, Anise, Antimony Sulphide, Antimony Sulphureted; Antimony and Potassium Tartrate; Antipyrine, Apocynum, Apomorphine Hydrochloride, Aqua Ammonia, Arecoline Hydrobromide, Areca Nut, Arnica Flowers, Arnica Root, Aromatized Castor Oil; Arsenic Sulphide, Arsenic Tribromide, Arsenic Trioxide, Arsenous Iodide; Arsenous and Mercuric Iodides; Asafetida, Asclepias, Asparagus Seed, Aspidium, Atropine Sulphate; Balm Gilead Buds, Balsam Copaiba, Balsam Fir, Balsam Peru, Balsam Tolu; Bamboo Briar, Baptisia; Barium Compounds—Namely, Barium Chloride, Iodide, Sulphide; Bearberry, Belladonna, Benzyl-Benzoate, Berberis Aquifolium, Berberine Hydrochloride, Benzoin, Betanaphthol, Betel Nut; Bismuth Compounds—Namely, Bismuth Milk; Bismuth Betanaphthol, Subcarbonate, Subgallate, Subnitrate, Subsalicylate; Bismuth and Ammonium Citrate; Bitter Apple, Black Cohosh, Black Haw, Black Hellebore, Black Indian Hemp, Bladderwrack; Blaud Mass; Bloodroot, Blue Cohosh, Blue Flag, Blue Mass; Bole, Armenian; Boneset, Borax, Broom-Corn Seed, Broom Tops, Brucine, Buchu, Buckthorn, Bugle Weed, Burdock; Cacao Butter, for Medicinal Purposes; Cactus, Caffeine; Caffeine, Citrated; Caffeine and Sodium Benzoate; Calabar Bean, Calamus; Calcium Compounds—Namely, Calcium Bromide, Carbonate, Chloride, Glycerophosphate, Hypophosphite, Iodide, Lactate, Lactophosphate, Oxide, Phenolsulphonate, Prosphate, Sulphate, Sulphide; Calendula, Calisaya Bark, Calomel, Calumba; Camphor; Camphor, Monobromated; Canella, Cannabis, Cantharides, Capsicum, Caraway Seed; Carbon Disulphide; Carbon Tetrachloride; Cardamom; Cardamom Compound; Cascara Sagrada, Cascarilla; Cascin for Medicinal Purposes; Cassia Bark, Caulophyllum; Caustic Potash; Caustic Soda; Cerium Oxalate; Chalk, Precipitated; Chalk, Prepared; Chamomile, Charcoal, Chelidonium, Chestnut Leaves, Chimaphila, Chionanthus; Choral, Camphorated; Chloral, Hydrated; Chloramine T, Chloroform, Chromium Sulphate, Chrysarobin, Cimicifuga; Cinchona, Red; Cinchona Compound; Cinchonidia, Cinchonidine Sulphate; Cinchonine, Cinchonine Sulphate; Cinnamon, Cloves, Cocaine Hydrochloride, Cochineal, Cocillana; Codeine, Codeine Phosphate, Codeine Sulphate; Colchicine, Colchicine Salicylate; Colchicum (Corm and Seed), Cold Cream; Collinsonia, Collodion, Colocynth, Columbo, Condurango, Conium, Convallaria; Copper Arsenite, Copper Citrate, Copper Sulphate; Coriander, Corn Silk, Corpus Luteum, Corrosive Sublimate, Cotton Root, Coumarin, Cramp Bark, Cranesbill, Cream Tartar; Creosote (Wood); Creosote Carbonate; Cresol, Cubeb, Cudbear, Culvers Root, Cypripedium, Damiana, Dandelion Root, Diacetylmorphine; Diastase from Malt; Dichloramine T, Diethylphthalate, Digitalin, Digitalis, Dioscorea, Dog Grass, Echinacea, Elaterium, Elecampane, Elder Flower; Emetine Hydrochloride; Epinephrim Chloride; Epsom Salt, Ergot, Eriodyctyon, Erythroxylon, Eserine salicylate, Eserine Sulphate, Ether; Ether, Acetic; Ethyl Chloride, Ethylene Dichloride, Eucalyptol, Eucalyptus, Euphorbia Pilulifera, Euphorbium, Fennel, Fenugreek, Flaxseed, Formaldehyde, Foxglove, Frangula, Fringe Tree, Gaduol, Gamboge, Garden Celandine, Gelsemium, Gentian; Gentian Compound; Geranium; Ginger for Medicinal Purposes; Glycerin, Glycerites; Glycyrrhiza (Licorice); Goldenseal, Gold Tribromide, Gold Oidide; Gold and Sodium Chloride; Gossypium, Grindelia, Guaiac, Guaiacol Carbonate, Gum Arabic, Guniguaiac, Hawthorn Berries; Hellebore (Black and Green); Helonias, Hemoglobin, Henbane, Hepatica, Hexmethylenamine, Hops, Horehound, Horse Nettle, Hydrangea, Hydrastine, Hydrastine Hydrochloride, Hydrastis, Hydrogen Peroxide, Hyoscine Hydrobromide; Hyoscyamine, Hyoscyamine Hydrobromide, Hyoscyamine Sulphate; Hyoscyamus; Hypodermic Tablets; Ichthyol, Inula, Iodine, Iodoform, Ipecac, Irish Moss; Iron and Iron Compounds—Namely, Iron Reduced; Iron Albuminated, Arsenate, Arsenite, Bromide, Cacodylate, Carbonate, Chloride, Citrate, Glycerophosphate, Hypophosphite, Iodide, Oxide, Peptonate, Pyrophosphate, Subcarbonate, Sulphate, Valerate; Iron and Ammonium Citrate; Iron and Manganese Peptonate; Iron and Quinine Citrate; Jaborandi, Jalap, Jamaica Dogwood, Juniper Berries; Kaolin, Medicinal; Kaolin Cataplasm; Kavakava, Kermes Mineral, Kino, Kola, Ladies' Slipper, Lanolin, Lappa; Lard Benzoinated Larkspur, Laudanum; Lavender Compound; Lead Acetate, Lead Carbonate, Lead Iodide; Lead Oxide, Yellow; Lecithin; Lemon Peel for Medicinal Purposes; Licorice, Liferoot; Lily of the Valley; Lime for Medicinal Purposes; Lime, Chlorinated; Liquid Petroleum, Litharge; Lithium Salts—Namely, Lithium Benzoate, Bromide, Carbonate, Citrate, Salicylate; Liverwort, Lobelia; Magma Bismuth; Magma Magnesia; Magnesium Compounds—Namely, Magnesia, Calcined; Magnesium Carbonate, Oxide, Peroxide, Salicylate, Sulphate; Magnesium Creosote Sulphonate; Magnesium Guaiacol Sulphonate; Male Fern; Malt for Medicinal Purposes; Mandrake; Manganese Compounds—Namely, Manganese Citrate, Dioxide, Glycerophosphate, Hypophosphite, Iodide; Marigold, Marrubium, Mastic, Matico; Matricaria, Menthol; Mercury and Mercury Compounds—Namely, Mercury; Mercurous Chloride; Mercury Ammoniated; Mercury Iodide, Oxide, Oxycyanide, Salicylate, Tannate; Methylene Blue, Methyl Salicylate; Milk of Bismuth; Milk of Magnesia; Morphine, Morphine Diacetyl, Morphine Hydrochloride, Morphine Sulphate, Mullein, Musk Root; Mustard for Medicinal Purposes; Myrrh, Nickel Bromide, Nickel Sulphate; Nitroglycerin for Medicinal Purposes; Nuclein, Nutgall; Nutmeg for Medicinal Purposes; Nux Vomica; Oils for Medicinal Purposes—Namely, Oil Anise, Bitter Almond, Bay, Bergamot, Birch, Cade, Cajuput, Camphor, Camphorated, Caraway, Cardamon, Cassia, Castor; Castor, Aromatized; Cedarwood, Citronella, Cloves, Coconut, Cod-Liver, Coriander, Corn, Cottonseed, Croton, Erigeron, Eucalyptus, Fennel, Geranium, Hemlock, Juniper, Lavender Flower, Lemon, Linseed, Locust Buds, Mineral, Mustard, Neroli, Nutmeg, Olive, Orange, Pennyroyal, Peppermint, Petroleum, Pimiento, Pine-Needles, Pinus Sylvestris, Rose, Rosemary, Sandalwood, Sassafras, Savin, Tansy, Tar, Theobroma, Thuja, Thyme, Turpentine, Wintergreen Oleoresins—Namely, Oleoresin Apiol, Capsicum, Cubeb, Ginger; Opium; Orange Peel for Medicinal Purposes; Orchic Substance, Orris Root, Ovarian Substance, Oxygall, Oxydendron, Pancreatin, Papain, Paraformaldehyde, Paraldehyde, Paregoric, Pareira, Parsley Seed; Pepper for Medicinal Purposes; Pepper-

mint, Pepsin; Pepsin, Saccharated; Petrolatum, Phenolphthalein; Phenyl Salicylate (Salol); Phosphorus, Physostigma, Physostigmine Salicylate, Physostigmine Sulphate, Phytolacca, Pilocarpine Hydrochloride, Pilocarpine Salicylate, Pilocarpus, Pine Tar, Pink Root, Piperine, Pipsissewa, Pituitary Gland, Pleurisy Root, Podophyllin, Podophyllum, Poke Root; Potassium Compounds—Namely, Potassium Acetate, Arsenite, Bicarbonate, Bichromate, Bitartrate, Bromide, Carbonate, Chlorate, Citrate, Glycerophosphate, Hydroxide, Hypophosphite, Iodide, Nitrate, Permanganate; Potassium Creosote Sulphonate; Potassium Guaiacol Sulphonate; Potassium and Sodium Tartrate; Prickly Ash, Pulsatilla, Pumpkin Seed, Quassia, Quebracho, Quercus, Quillaja, Quinidine, Quinidine Sulphate; Quinine and Salts—Namely, Quinine; Quinine Arsenate, Arsenite, Bisulphate, Dihydrochloride, Glycerophosphate, Hydrobromide, Hydrochloride, Hypophosphite, Salicylate, Sulphate, Tannate, Valerate; Quinine and Urea Hydrochloride; Red Clover, Red Saunders, Rennin, Resin Gualac, Resin Jalap, Resin Podophyllum, Resin Scammony, Resorcinol, Rhatany, Rhubarb, Rochelle Salt, Rue, Rumex, Saccharin, Saffron, Salicin, Salol, Sambucus, Sandalwood, Sandarac, Sanguinaria, Sanguinarine Nitrate, Santonin, Sarsaparilla, Sassafras, Saw Palmetto, Scammony, Scoparius, Scopola, Scopolamine Hydrobromide, Scutellaria; Seidlitz Powder; Senecio, Senega, Senna, Serpentaria, Sevenbarks, Silver Nitrate, Silver Nucleinate, Skullcap, Skunk Cabbage, Snakeroot, Soapbark; Sodium Compounds—Namely, Sodium Arsenate, Benzoate, Bicarbonate, Bromide, Cacodylate, Carbonate, Chloride, Citrate, Formate, Glycerophosphate, Glycocholate, Hydroxide, Hypophosphite, Hyposulphite, Iodide, Nitrate, Nitrite; Oleate, Acid; Phenolsulphonate, Phosphate, Salicylate, Silicate, Succinate, Sulphate, Solanum, Sourwood, Sparteine Sulphate, Spearmint, Spigelia, Squaw Vine, Squill, Star grass, Stillingia, Stone Root, Stramonium, Strontium Bromide, Strontium Salicylate, Strophanthin, Strophanthus; Strychnine and Salts—Namely, Strychnine; Strychnine Arsenate, Arsenite, Glycerophosphate, Hypophosphite, Nitrate, Phosphate, Sulphate, Valerate; Styrax; Sugar of Milk; Sulphonethylmethane, Sulphonmethane, Sulphur, Sumbul, Suprarenal Gland, Taraxacum, Tartar Emetic, Terebene, Terpin Hydrate, Thiosinamin, Thyme, Thymol, Thyroid Gland, Tonga, Tragacanth, Triticum, Turpentine, Uva-Ursi, Valerian; Vanilla Beans for Medicinal Purposes; Vanillin, Veratrum, Viburnum Opulus, Viburnum Prunifolium, Wahoo, White Oak, White Pine, White Precipitate, Wild-Cherry Bark, Wild Indigo, Wild Lettuce, Wild Yam, Witch-Hazel, Xanthorrhiza, Xanthoxylum; Yeast for Medicinal Purposes; Yellow Dock, Yellow Jasmine, Yellowroot, Yerba Santa, Yohimbine Hydrochloride, Zedoary; Zinc Compounds—Namely, Zinc Acetate, Bromide, Chloride, Oxide, Peroxide, Phenolsulphonate, Phosphate, Phosphide, Stearate, Sulphate, Valerate; Zangiber; Proprietary Medicines, Pharmaceutical Preparations, and Home Remedies—Namely, Preparations in Liquid and Tablet Form for the Treatment of Coughs and Colds, Whooping Cough, Croup, Asthma, Bronchitis, Rhinitis; Bronchial Lozenges, Brown Mixture, Cough Sirup, Expectorants; Ointments for External Use—Namely, Sulphur Ointment, Blue Ointment, Boric-Acid Ointment, Zinc Ointment; Preparations in Tablet Form for Internal Use—Namely, Yeast Vitamin Tablets, Worm Lozenges, Soda-Mint and Pepsin Tablets, Soda-Mint Tablets, Chlorate-of-Potash Tablets, Throat Pastils, Saccharin Tablets; Laxative Preparations in Liquid, Tablet, or Powder Form—Namely, Aromatized Castor Oil, Cascara Sagrada, Laxative Pills, Cascarin Tablets, Laxative Cold and Grippe Tablets, Saline Laxatives, Mineral Oils for Medicinal Use; Tonics and Tonic Preparations—Namely, Blaud Iron Pills, Nux and Iron Compound, Emulsion of Cod-Liver Oil with Hypophosphites, Cod-Liver Oil, Tar Compounds with Hypophosphite, and Cod-Liver Oil Extracts for Internal Use; Glycerine Suppositories for Adults and Infants, Suppositories, for the Treatment of Piles, Antiseptic Vaginal Suppositories; Antiseptics, Deodorants, and Disinfectants for Hospital, Surgical, and Household Use; Larkspur Lotion for the Destruction of Vermin; Liquid Preparations for the Treatment of Corns, Calli, and Warts; Alcohol for External Use, Preparations in Liquid Form for the Treatment of Intestinal Disorders; Preparations for the Treatment of Toothache—Namely, Toothache Gum, Toothache Drops; Prophylactics, Zinc Stearate; Worm Sirups, Vermifuge, and Worm Confections; Antiseptic Salves or Ointments Used Externally in the Treatment or Relief of Cuts, Burns, Bruises, Boils, Pimples, Chilblains, Piles, Ecsema, Sunburn, Poison Ivy, Blisters, Insect Bites, and Ulcers; Preparations in Liquid Form for the Treatment of Eczema and Other Inflammatory Conditions of the Skin, Antiseptic Preparations in Liquid Form for Use in the Treatment of Catarrhal Conditions of the Nose and Throat, and as a Mouth Wash, Preparations in Liquid Form for Cleansing and Treating the Hair; Veterinary Medicines and Preparations—Namely, Blister Preparations, Bovine Laxative, Elixirs, Counterirritants, Colic Mixtures, Mange Lotions, Eye Ointment, Pituitary Extracts, Liniments, Salves; the Above Mentioned Porducts May Be in Any One or Another of the Following Forms: Ampoules, Crude Drugs, Crystals, Elixirs, Emulsions, Extracts (Solid and Fluid), Liniments, Liquids, Lozenges, Mixtures, Ointments, Pills, Powders, Solids, Solutions, Spirits, Suppositories, Syrups, Tablets, Tinctures, and Troches.

Claims use since 1888.

Ser. No. 267,855. P. H. POTTER & SONS, INC., New York, N. Y. Filed June 11, 1928.

Iridinol

For Solution of Salts of Iridium for the Treatment of Rheumatism and Other Blood Diseases.
Claims use since Sept. 4, 1909.

CLASS 9.

Explosives, Firearms, Equipments, and Projectiles.

Ser. No. 267,857. PYRO IMPORTING COMPANY, Seattle, Wash. Filed June 11, 1928.

SHOGUN

For Firecrackers.
Claims use since Jan. 15, 1928.

Ser. No. 268,335. AMERICAN HAIR FELT COMPANY, Chicago, Ill. Filed June 20, 1928.

OZITE

For Gun Wadding.
Claims use since June 12, 1928.

CLASS 12.

Construction Materials.

Ser. No. 263,275. THE LOGAN-LONG COMPANY, Chicago, Ill. Filed Mar. 16, 1928.

DUXBAC

For Prepared Roll Roofing.
Claims use since Nov. 1, 1922.

Ser. No. 264,079. CAPLANO TIMBER CO., LTD., North Vancouver, British Columbia, Canada. Filed Mar. 31, 1928.



For Sawmill Products—Namely, Shingles, Lumber, Siding, Moulding, Flooring, Band Sticks, and Lathes.
Claims use since Oct. 15, 1927.

Ser. No. 264,308. WM. H. JACKSON COMPANY, New York, N. Y. Filed Apr. 4, 1928.



The words "Stone" and "New York & Chicago" shown in the accompanying drawing are disclaimed.
For Mantel Pieces.
Claims use since Mar. 8, 1928.

Ser. No. 265,070. SCHUMACHER WALL BOARD CORPORATION, Los Angeles, Calif. Filed Apr. 18, 1928.

SCHUMITE

For Construction Material—Namely, Wall Board, Plaster Board, Lath Board, Building Paper, and Roofing Paper.
Claims use since Mar. 22, 1928.

Ser. No. 265,432. GOOD ROADS COMPANY, INC., Upper Darby, Pa. Filed Apr. 26, 1928.

GOROCO

For Cold Patch and Bituminous Material, Said Materials Being a Combination of Hydrate Carbons Derived from the Distillation of Crude Asphalt Base Oil or from the Destructive Distillation of Bituminous Coal and Used for Bituminous Macadam Resurfacing, Bituminous Macadam Construction, Bituminous Hot-Surface Treatment, Bituminous Cold-Surface Treatment, Bituminous Cold-Mix Construction and Bituminous Cold Patching.
Claims use since Jan. 1, 1923.

Ser. No. 265,443. MISSOURI PORTLAND CEMENT COMPANY, St. Louis, Mo. Filed Apr. 26, 1928.



The lining indicating the color red.
For Portland Cement.
Claims use since 1902.

Ser. No. 265,612. THE BERGER MANUFACTURING COMPANY, Canton, Ohio. Filed Apr. 30, 1928.

TRI-PLEX

For Expanded-Metal Lath.
Claims use since Feb. 28, 1928.

Ser. No. 266,330. MICHAEL C. PIERCE, New York, N. Y. Filed May 12, 1928.



The lining on the drawing represents orange color. No claim is made to the words "A Liquid for making Cement Waterproof, Adds Strength, Will Not Discolor," and "Makes Dustless."

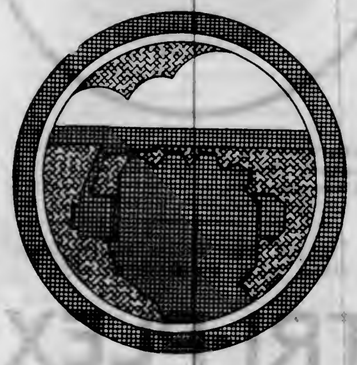
For Liquid for Making Cement Waterproof.
Claims use since 1925.

Ser. No. 266,387. MISSOURI PORTLAND CEMENT COMPANY, St. Louis, Mo. Filed May 14, 1928.

Prestolith

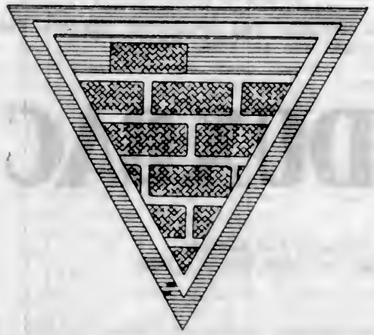
For Building Cement.
Claims use since Mar. 7, 1928.

Ser. No. 266,526. THE GIBSONBURG LIME PRODUCTS COMPANY, Gibsonburg, Ohio. Filed May 17, 1928.



The drawing is lined for the colors orange and black.
For Finishing Lime.
Claims use since Sept. 12, 1927.

Ser. No. 266,527. THE GIBSONBURG LIME PRODUCTS COMPANY, Gibsonburg, Ohio. Filed May 17, 1928.



The drawing is lined for the colors orange and blue.
For Mason's Lime.
Claims use since Sept. 6, 1927.

Ser. No. 266,900. UNITED STATES LIME PRODUCTS CORPORATION, San Francisco, Calif. Filed May 23, 1928.



For Hydrated Lime.
Claims use since Apr. 5, 1928.

Ser. No. 267,563. THE FLINTKOTE COMPANY, Boston, Mass. Filed June 6, 1928.

WARMGLO

For Asphaltic Composition Roofing Shingles.
Claims use since on or about July 1, 1927.

Ser. No. 267,564. THE FLINTKOTE COMPANY, Boston, Mass. Filed June 6, 1928.

WARMTONE

For Asphaltic Composition Roofing Shingles.
Claims use since on or about July 1, 1927.

Ser. No. 267,569. THE FLINTKOTE COMPANY, Boston, Mass. Filed June 6, 1928.

KOOLTONE

For Asphaltic Composition Roofing Shingles.
Claims use since on or about July 1, 1927.

Ser. No. 267,572. FREYDBERG BROTHERS, INCORPORATED, New York, N. Y. Filed June 6, 1928.

"DOT"

For Weather Strips of Flexible Material.
Claims use since June, 1927.

Ser. No. 267,703. THE FLINTKOTE COMPANY, Boston, Mass. Filed June 8, 1928.

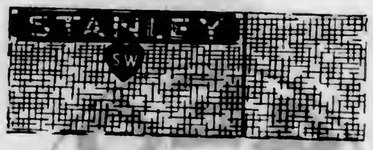
KOOL-BLEND

For Asphaltic Composition Roofing Shingles.
Claims use since on or about July 1, 1927.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 264,483. THE STANLEY WORKS, New Britain, Conn. Filed Apr. 6, 1928.



The trade-mark consists of a yellow background forming the body of applicant's label and divided by a vertical line into two panels or fields. On the left of the vertical line appears the name "Stanley" in a notched oblong of a blue-black color and the letters "S. W." in a heart of the same color. The drawing is lined to indicate such colors. No claim is made to the label per se.

For Hinges, Screen Hangers, Storm-Sash Hangers, Hasps, Box Handles, Chest and Drawer Handles, Door Handles; Pulls and Lifts for Doors, Sashes, and Screens; Brackets, Door Holders, Back Catches for Shutters and Doors, Padlock Eyes for Use with Padlocks, Desk Slides; Lid Supports for Boxes, Chests, Desks, Cabinets, Pianos, Talking Machines, and Similar Articles; Window Springs, Metal-Mending Plates for Reinforcing Purposes and Mending Purposes, Staples, Sliding-Door Rails, Flat Corner Irons, Metal Washers, Rolling-Door Hangers and Track-Box Strapping and Fasteners, Blind Hardware, Sash and Screen Hardware, Sash Pulleys, Corrugated Fasteners.
Claims use since Mar. 29, 1928.

Ser. No. 265,856. THE OSCAR C. RIXSON COMPANY, Chicago, Ill. Filed May 3, 1928.

RIXSON

For Door and Casement Hinges, Door and Casement Pivots, Casement Holders and Operators, Transom Operators, Door Checks (Overhead and Floor), and Door Holders and Stays.
Claims use since 1917.

Ser. No. 267,309. MCKINNEY MANUFACTURING COMPANY, Pittsburgh, Pa. Filed June 1, 1928.

2714

For Hinges.
Claims use since Jan. 1, 1906.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 266,294. AMERICAN MANGANESE BRONZE COMPANY, Holmesburg, Philadelphia, Pa. Filed May 12, 1928.

Ambroco

For Cast, Solid, and Cored Bars of Bearing Metals.
Claims use since November, 1927.

Ser. No. 267,356. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa. Filed June 2, 1928.

DIAMITE

For Alloys or Cutting Metal in the Form of Bars of Different Shapes and Sizes, Blocks, Disks, Pieces, and Pieces Cut to Short Lengths without Having Any Cutting Edge Thereon and Sold to the Trade as Tool Bits.
Claims use since Apr. 19, 1928.

Ser. No. 267,357. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa. Filed June 2, 1928.

DIMONDITE

For Alloys or Cutting Metal in the Form of Bars of Different Shapes and Sizes, Blocks, Disks, Pieces, and Pieces Cut to Short Lengths without Having Any Cutting Edge Thereon and Sold to the Trade as Tool Bits.
Claims use since Apr. 19, 1928.

CLASS 15.

Oils and Greases.

Ser. No. 260,301. WESTERN OIL & REFINING COMPANY, Los Angeles, Calif. Filed Jan. 18, 1928.

WESTERN OIL & REFINING CO. W Energy Supreme GASOLINE

Applicant disclaims the descriptive words "Energy Supreme" and "Gasoline" apart from the mark as shown.
For Petroleum Products—Namely, Gasoline, Kerosene, Lubricating Oils, and Lubricating Greases.
Claims use since May 15, 1926.

Ser. No. 261,959. GUN-FIL CORPORATION, Philadelphia, Pa. Filed Feb. 20, 1928.

GUN-FIL

For Lubricating Oils and Greases.
Claims use since Aug. 27, 1925.

Ser. No. 264,627. W. R. WOELK, doing business as Alpena Petroleum Products, Alpena, Mich. Filed Apr 9, 1928.

ALPPR

For Lubricating Oils.
Claims use since December, 1927.

Ser. No. 265,087. BEACON OIL COMPANY (INC.), Everett, Mass. Filed Apr. 19, 1928.

BEACON PENN

No registration rights are claimed for the word "Penn," apart from the mark shown in the drawing.
For Motor-Lubricating Oil.
Claims use since Apr. 9, 1928.

Ser. No. 265,952. CITIES SERVICE OIL COMPANY, Cleveland, Ohio. Filed May 5, 1928.

KOOLMOTOR

For Gasoline.
Claims use since Aug. 1, 1927.

Ser. No. 266,183. ASHLAND REFINING COMPANY, Ashland, Ky. Filed May 10, 1928.

RED PEPPER AVIATION

Exclusive use of the word "Aviation" is disclaimed apart from the mark shown.
For Gasoline.
Claims use since Nov. 1, 1925.

Ser. No. 266,184. ASHLAND REFINING COMPANY, Ashland, Ky. Filed May 10, 1928.

WHITE PEPPER

For Gasoline.
Claims use since Feb. 1, 1926.

Ser. No. 266,908. BAR-STONE OIL COMPANY, Chippewa Falls, Wis. Filed May 24, 1928.

MORVIS

For Gasoline and Other Fuel Oils and Lubricating Oils and Greases.
Claims use since Jan. 20, 1928.

Ser. No. 268,182. ASHLAND REFINING COMPANY, Ashland, Ky. Filed June 16, 1928.

GREEN PEPPER ANTI-KNOCK GASOLINE

Exclusive use of the words "Anti-Knock Gasoline" is disclaimed apart from the mark shown.
For Gasoline.
Claims use since Sept. 20, 1926.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 264,190. PENINSULAR PAINT AND VARNISH COMPANY, Detroit, Mich. Filed Apr. 2, 1928.

PENPROX

For Paint Enamels, Lacquer Enamels, Lacquers, Painters' Wall Sizings, Paint and Varnish Thinners, Primers, Surfacers, Putty, Retarders, Paint and Varnish Removers, Undercoaters, Paint Reducers, Polishing Compound for Painted and Varnished Surfaces.
Claims use since about Jan. 25, 1928

Ser. No. 265,123. HENRY SHIELD, doing business as Common Sense Mfg. Co., St. Louis, Mo. Filed Apr. 19, 1928.

DUX

For Auto and Furniture Polish.
Claims use since Apr. 14, 1928.

Ser. No. 265,458. DAVID M. YORBURG, doing business as Brite Floor Products Co., Brooklyn, N. Y. Filed Apr. 26, 1928.

BRITE-YOR-FLOR

For Polish for Floors, Linoleum, Oilcloth, and Varnished Woodwork.
Claims use since Apr. 24, 1928.

Ser. No. 265,537. GREAT LAKES VARNISH WORKS, INC., Chicago, Ill. Filed Apr. 28, 1928.

DUBL-DRI

For Paint Enamels and Varnishes.
Claims use since Jan. 25, 1928.

Ser. No. 266,081. FRANK A. BUSSE CO., INC., New York and Brooklyn, N. Y. Filed May 8, 1928.

FABCO

For Furniture and Motor-Car Polishes.
Claims use since about Feb. 29, 1928.

Ser. No. 266,378. S. C. JOHNSON & SON, Racine, Wis. Filed May 14, 1928.

JOHNSON'S

For Lacquers.
Claims use since about Mar. 6, 1924. Sets up ownership of registration 106,108, registered under the 10-year proviso.

Ser. No. 266,553. THE OHIO VARNISH COMPANY, Cleveland, Ohio. Filed May 17, 1928.

Chi-Namel

For House Paint, Colored Enamels, Lacquers, Furniture Polish, Graining Compound, and Graining First Coater.
Claims use since Jan. 5, 1922, on house paint; 1905, on colored enamels and furniture polish; Oct. 30, 1925, on lacquers; 1903, on graining compound and graining first coater.

Ser. No. 267,049. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis. Filed May 26, 1928.

Jamesway

For Enamel and Oil Paint.
Claims use since Mar. 1, 1921.

CLASS 17.

Tobacco Products.

Ser. No. 264,666. WIGGINS & BEAN, Milford Square, Pa. Filed Apr. 10, 1928.

EL-NEO

For Cigars.
Claims use since Mar. 7, 1928.

Ser. No. 267,887. THE CORAZA CIGAR COMPANY, Philadelphia, Pa. Filed June 12, 1928.

Co SOBO

For Cigars.
Claims use since 1913.

CLASS 20.

Linoleum and Oiled Cloth.

Ser. No. 266,012. ARMSTRONG CORK COMPANY, Pittsburgh, Pa. Filed May 7, 1928.

A ARMSTRONG'S

Applicant makes no claim to the name "Armstrong's" apart from the mark shown.
For Linoleum, Cork Carpet, Felt-Base Floor Coverings Both Piece Goods and Rugs.
Claims use since November, 1922, on linoleum and cork carpet; February, 1925, on felt base goods.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 247,419. ECLIPSE TIMER MFG. CO., Milwaukee, Wis. Filed Apr. 14, 1927.

FORDYNAMO

For Spark Timers.
Claims use since Oct. 26, 1926.

Ser. No. 262,252. ORCHESTRAPHONE COMPANY, Chicago, Ill. Filed Feb. 25, 1928.

Orchestraphone

For Electrical Reproducing and Amplifying Apparatus for Phonograph Records.
Claims use since Aug. 1, 1927.

Ser. No. 265,347. WILLIAM D. STEWART, doing business as Visionola Company, St. Petersburg, Fla. Filed Apr. 24, 1928.

Visionola

For Radio Sets Adapted to Receive and Reproduce Sounds and Images and the Like Transmitted from a Distance.
Claims use since July, 1927.

Ser. No. 265,352. CHARLES ZIMMERMAN, doing business as Beacon Battery Co., New York, N. Y. Filed Apr. 24, 1928.

BIG CHIEF

For Batteries.
Claims use since Nov. 1, 1927.

Ser. No. 265,419. ABSOLUTE CON-TAC-TOR CORPORATION, Elkhart, Ind. Filed Apr. 26, 1928.

BURNER BOSS R

For Electrical Switches for Controlling Automatic Heating Systems.
Claims use since October, 1927.

Ser. No. 265,496. THE PHONO LINK CO., INC., New York, N. Y. Filed Apr. 27, 1928.

Phono Link

For Electric Pick-Up Device Used as a Reproducer in Conjunction with Phonographs and Radio Receiving Sets.
Claims use since Dec. 1, 1927.

Ser. No. 266,029. JAMES H. HERRON COMPANY, Cleveland, Ohio. Filed May 7, 1928.

For Electrical Industrial Furnaces.
Claims use since Feb. 21, 1928.

Ser. No. 266,835. THE STANLEY WORKS, New Britain, Conn. Filed May 22, 1928.

STANLEY

The mark consists in the word "Stanley" in a notched oblong having a blue field superimposed on a circular device of the same color displayed directly on the goods. The drawing is lined to indicate said color.
For Portable Electric Drills.
Claims use since Oct. 30, 1927.

Ser. No. 267,124. INSECT ELECTROCUTOR COMPANY, Spokane, Wash. Filed May 28, 1928.

Insectocutor

For Electrical Insect Traps or Electrical Exterminators.
Claims use since Feb. 15, 1928.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 211,865. NORTHLAND SKI MANUFACTURING CO., St. Paul, Minn. Filed Mar. 30, 1925.

VIKING

For Skis, Toboggans, Snow Shoes, Ski Harness, Ski Poles, Snow-Shoe Harness, Toboggan Pads, Hockey Sticks, and Golf Clubs.
Claims use since about March, 1919, as applied to skis, and as applied to other goods in applicant's business since Mar. 19, 1924.

Ser. No. 259,412. KOKOMO STAMPED METAL CO., Kokomo, Ind. Filed Dec. 28, 1927.

"Chieftain"

For Roller Skates.
Claims use since Nov. 1, 1927.

Ser. No. 260,795. GEO. BORGFELDT & CO., New York, N. Y. Filed Jan. 28, 1928.

BONTON

For Dolls.
Claims use since Jan. 23, 1927.

Ser. No. 260,834. MONTAGUE ROD AND REEL COMPANY, Montague City, Mass. Filed Jan. 28, 1928.



For Fishing Rods.
Claims use since Oct. 18, 1927.

Ser. No. 260,835. MONTAGUE ROD AND REEL COMPANY, Montague City, Mass. Filed Jan. 28, 1928.



The words "Montague" and "Fishkill" are disclaimed apart from the mark as shown in the drawing.
For Fishing Rods.
Claims use since Oct. 18, 1927.

Ser. No. 260,836. MONTAGUE ROD AND REEL COMPANY, Montague City, Mass. Filed Jan. 28, 1928.



For Fishing Rods.
Claims use since Oct. 18, 1927.

Ser. No. 260,837. MONTAGUE ROD AND REEL COMPANY, Montague City, Mass. Filed Jan. 28, 1928.



For Fishing Rods.
Claims use since Oct. 18, 1927.

Ser. No. 260,838. MONTAGUE ROD AND REEL COMPANY, Montague City, Mass. Filed Jan. 28, 1928.



For Fishing Rods.
Claims use since Oct. 18 1927.

Ser. No. 263,410. MARTIN C. LARSEN, Los Angeles, Calif. Filed Mar. 19, 1928.

ADDO

For Educational Numerical Puzzles.
Claims use since Mar. 2, 1928.

Ser. No. 264,398. WILLIAM THOMAS WATSON, Vancouver, British Columbia, Canada. Filed Apr. 5, 1928.

STEER BRAKE

No claim is made to the words "Steer Brake" apart from the mark as shown in the drawing.
For Toy Vehicles.
Claims use since July 19, 1927.

Ser. No. 265,181. WILSON-WESTERN SPORTING GOODS COMPANY, Chicago, Ill. Filed Apr. 20, 1928.

Andy Cohen

The trade-mark is a facsimile of the signature of Andy Cohen. Permission granted.
For Baseball Gloves and Mitts.
Claims use since Apr. 19, 1928.

Ser. No. 265,776. MAXWELL A. BLASK, doing business as Personal Stationery Co., San Francisco, Calif. Filed May 2, 1928.

WE THEY

For Playing Cards.
Claims use since Apr. 9, 1928.

Ser. No. 266,095. PLAYGOLF, INC., Cleveland, Ohio. Filed May 8, 1928.

TIMESAVER

For Golf Bags.
Claims use since July 1, 1927.

Ser. No. 266,379. WILLIAM M. JORDAN, Birmingham, Ala. Filed May 14, 1928.

THE FLAPPER

For Artificial Bait.
Claims use since May 5, 1928.

Ser. No. 266,380. WILLIAM M. JORDAN, Birmingham, Ala. Filed May 14, 1928.

THE TURBINE

For Artificial Bait.
Claims use since May 5, 1928.

Ser. No. 266,571. ADVANCE MACHINE COMPANY, Chicago, Ill. Filed May 18, 1928.

COINSKILL

The word "Coin" is disclaimed apart from the mark shown.
For Game Apparatus of the Character in Which a Coin, Check, or Other Projectible Object is Employed in Connection with Other Parts of the Game Apparatus and in Which the Results of the Game are Controlled or Produced by the Manipulation, Projection, or Actuation of the Projectile by the Operator or Player of the Game.
Claims use since about Feb. 1, 1928.

Ser. No. 267,577. HILLERICH & BRADSBY CO., Louisville, Ky. Filed June 6, 1928.

Lloyd Waner

The trade-mark consists of the signature of "Lloyd Waner," and the consent of Lloyd Waner in writing is attached hereto.
For Baseball Bats.
Claims use since May 10, 1927.

Ser No. 267,841. THE HANNA MANUFACTURING COMPANY, Athens, Ga. Filed June 11, 1928.

BATRITE

For Baseball Bats.
Claims use since Oct. 8, 1927.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 248,252. GEORGE R. POWELL, Philadelphia, Pa. Filed Apr. 30, 1927.

TRAFFIC PEDAL

No claim is made to the word "Pedal" apart from the mark shown in the drawing.
For Combination Accelerator and Brake Pedal for Automobiles.
Claims use since Mar. 22, 1927.

Ser. No. 259,712. DEUTSCHE HURAGAN GESELLSCHAFT M. B. H., Berlin, Germany. Filed Jan. 5, 1928.



The drawing is lined to indicate the color black.
For Grinding and Crushing Machines, Especially Crushing and Centrifugal Mills, Disintegrators, and Parts Thereof.
Claims use since May 21, 1927.

Ser. No. 261,578. LEO LAMMERTZ, Aix-la-Chapelle, Germany. Filed Feb. 11, 1928. Under 10-year proviso.



For Sewing-Machine Needles.
Claims use since 1862.

Ser. No. 262,146. AUTOSTAT LIMITED, London, England. Filed Feb. 24, 1928.

AUTOSTAT

For Thermostatically-Operated Parts of Machines for Automatically Maintaining the Air Supply to Internal-Combustion Engines at a Predetermined Temperature.
Claims use since Nov. 9, 1927.

Ser. No. 263,003. J. A. HENCKELS, Solingen, Germany. Filed Mar. 12, 1928.



For Pocketknives Made of Base Metal—Namely, Penknives, Jacknives, Pruning Knives, Budding Knives, Grafting Knives, Office Knives, Hunting Knives, Knife Erasers; Scissors—Namely, Ladies' Scissors, Embroidery Scissors, Lace Scissors, Buttonhole Scissors, Folding Scissors, Wire Scissors, Cigar Scissors, Grape of Flower Scissors, Lamp Scissors; Shears—Namely, Paper Shears, Tailor Shears, Horse Shears, Bandage Shears, Pruning Shears, Poultry Shears, Barber Shears; Safety Razors, Safety-Razor Blades; Knives Made of Base Metal—Namely, Cook Knives, Bone Knives, Bread Knives, Lard Knives, Kitchen Knives, Lemon Knives, Grapefruit Knives, Bean Knives, Scallop Knives, Fish Knives, Butcher Knives, Wood-Carving Knives, Bakers' Knives, Shoe Knives, Linoleum Knives, Feather-Curling Knives, Nursery Knives, Furriers' Knives, Fruit Knives, Cigarmakers' Knives, Bookbinders' Knives, Paper-Box Makers' Knives, Table Knives, Carving Knives, Velvet Cutting Knives, Dessert Knives; Forks Made of Base Metal—Namely, Kitchen Forks, Cold-Meat Forks, Table Forks, Dessert Forks, Carving Forks; Butcher Steels, Carving Steels, Can Openers, Cleavers, Nutcrackers, Knife Sharpeners, Corkscrews, Spatulas, Hair Clippers, Cake Turners, Cigar Cutters, Scissor Sets, Razor Sets, Wood-Carving Tools.
Claims use since 1731.

Ser. No. 264,619. THE VLCHEK TOOL COMPANY, Cleveland Ohio. Filed Apr. 9, 1928.

SERVALL

For Tool Sets, Consisting at Present of Nail Set and Punch and Chisel Instruments banded Together.
Claims use since Feb. 21, 1928.

Ser. No. 265,766. ADDRESSOGRAPH COMPANY, Chicago, Ill. Filed May 2, 1928.

Controlagraph

For Printing Machines.
Claims use since Apr. 11, 1928.

Ser. No. 266,541. HYGROLIAT INCORPORATED, Kearny, N. J. Filed May 17, 1928.

HYGROLIT

For Apparatus for Automatically and Uniformly Adding Predetermined Percentages of Moisture to Textile Fibres and Other Raw Materials Requiring Moistening.
Claims use since May 10, 1928.

Ser. No. 266,833. D. B. SMITH & COMPANY, INC., Utica, N. Y. Filed May 22, 1928.

SAVAGE

For Hand and Power Operated Sprayers, Spray Pumps, Fire Pumps, Pumps, and Powder Dusters.
Claims use since on or about May 1, 1923.

Ser. No. 267,001. LESTER & WASLEY CO., INC., Norwich, Conn. Filed May 25, 1928.

LEADER

For Deckling and Beveling Machines, Paper-Drinking-Cup-Making Machines, and Adhesive-Applying Machines.
Claims use since Nov. 1, 1926, to deckling and beveling machines; since Aug. 1, 1926, to paper-drinking-cup-making machines; and since Nov. 1, 1927, to adhesive-applying machines.

Ser No. 267,101. VEX SALES CORPORATION, Chicago, Ill. Filed May 26, 1928.

VEX

For Fertilizer-Dispensing Apparatus and Parts Thereof.
Claims use since Apr. 26, 1928.

Ser. No. 267,182. AUTO STROP SAFETY RAZOR COMPANY, INC., New York, N. Y. Filed May 29, 1928.

THE
"MILLION DOLLAR"
RAZOR

The word "Razor" is disclaimed apart from the mark shown in the drawing.
For Safety Razors.
Claims use since Mar. 23, 1928.

Ser. No. 267,194. HERCULES PRODUCTS COMPANY, St. Joseph, Mich. Filed complete May 29, 1928.

MASTER

For Automobile Rim Tools.
Claims use since January, 1921.

Ser. No. 267,195. HERCULES PRODUCTS COMPANY, St. Joseph, Mich. Filed May 29, 1928.

HERCULES

For Automobile Rim Tools.
Claims use since Oct. 2, 1925.

Ser. No. 267,247. DECROW AUTOMOTIVE SPECIALTIES, INC., Lockport, N. Y. Filed May 31, 1928.

DECROILER

The word "Oiler" is disclaimed apart from the mark as shown.
For Lubricating Devices for Internal-Combustion Motors.
Claims use since about Aug. 16, 1926.

Ser. No. 267,401. ARCADE FILE WORKS, Anderson, Ind. Filed June 4, 1928.

NATIONAL

For Files and Rasps.
Claims use since May 10, 1928.

Ser. No. 267,662. NATIONAL MAYONNAISE MACHINE CO., INC., New York, N. Y. Filed June 7, 1928.

VISA

For Emulsifying Apparatus and parts Thereof.
Claims use since April, 1927.

CLASS 24.

Laundry Appliances and Machines.

Ser. No. 257,515. THE SPEEDAY MANUFACTURING COMPANY, Cleveland, Ohio. Filed Nov. 12, 1927.

SPEEDAY

For Household Washing Machines and Parts Thereof.
Claims use since January, 1927.

Ser. No. 266,626. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed May 18, 1928.

WATER WITCH



For Copper-Tub Electric Clothes-Washing Machine.
Claims use since July, 1927.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 255,422. THE SHORE INSTRUMENT & MFG. CO., Jamaica, N. Y. Filed Sept. 28, 1927.

MONOTRON

For Apparatus for Measuring the Hardness of Materials.
Claims use since Apr. 15, 1927.

Ser. No. 266,056. TOLEDO SCALE COMPANY, Toledo, Ohio. Filed May 7, 1928.



All words appearing in the mark except "Tosco" and applicant corporation's name are disclaimed apart from the mark shown in the drawing.
For Weighing Scales, Weighing Machines, Weighing Apparatus, Counting Machines, Dynamometers, Balance-Testing Machines, and Instruments for Measuring Tension, Resilience, Strength of Material, Resistance to Distortion, and Moisture Content.
Claims use since Apr. 15, 1928.

Ser. No. 267,632. BURLEIGH BROOKS, New York, N. Y. Filed June 7, 1928.

KAWEE

For Cameras.
Claims use since June 10, 1924.

CLASS 27.

Horological Instruments.

Ser. No. 266,487. SOUTH BEND WATCH CO., South Bend, Ind. Filed May 16, 1928.

The Executive

For Watches and Watchcases.
Claims use since Aug. 5, 1925.

Ser No. 266,489. SOUTH BEND WATCH CO., South Bend, Ind. Filed May 16, 1928.

Chesterfield

For Watches and Watchcases.
Claims use since July 15, 1913.

Ser. No. 266,490. SOUTH BEND WATCH CO., South Bend, Ind. Filed May 16, 1928.

Lady Marie

For Watches and Watchcases.
Claims use since Aug. 5, 1925.

Ser. No. 266,491. SOUTH BEND WATCH CO., South Bend, Ind. Filed May 16, 1928.

Ranger

For Watches and Watchcases.
Claims use since Aug. 10, 1923.

Ser. No. 266,492. SOUTH BEND WATCH CO., South Bend, Ind. Filed May 16, 1928.

Rough Rider

For Watches and Watchcases.
Claims use since Aug. 10, 1923.

Ser. No. 266,568. VIATTE & GUENIN, Bienne, Switzerland, and New York, N. Y. Filed May 17, 1928.

NIVIA

For Watch Movements, Watchcases Made of or Plated with Precious Metal, Watch Parts, and Watches.
Claims use since May 1, 1921.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 249,241. SIGMA SIGMA SIGMA, Woodstock, Va. Filed May 19, 1927.



For Fraternity Badges, Lapel Buttons; Scarf, Lapel, and Breast Pins; Cuff Links, Tie Clasps, Charms, Finger Rings, Belt Buckles, and Ornamental Shields, All of Precious Metal.
Claims use since Oct. 21, 1921.

Ser. No. 257,023. ONEIDA COMMUNITY, LIMITED, Oneida, N. Y. Filed Nov. 3, 1927.

HONEYMOON

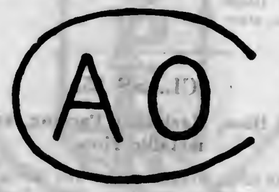
For Silver Flatware.
Claims use since Apr. 19, 1927.

Ser. No. 260,147. STAIGER & SONS, New York, N. Y. Filed Jan. 14, 1928.



For Jewelry for Personal Wear, Not Including Watches.
Claims use since 1917.

Ser. No. 266,638. ARNOLD, OCHS CO., Providence, R. I. Filed May 19, 1928.



For Bracelets, Finger Rings, Brooches, Pins, Sautoirs, Necklaces, Pendants, Lavaliers, Belt Buckles, Neck Chains, Watch Chains, Key Chains, Buttons, and Hair Ornaments.
Claims use since Jan. 1, 1928.

Ser. No. 267,185. CORBETT & BERTOLONE, INC., New York, N. Y. Filed May 29, 1928.

C+B

For Jewelry Consisting of Watch Chains, Neck Chains, Key Chains, and Other Articles of Jewelry for Personal Wear, Not Including Watches.
Claims use since about Apr. 15, 1928.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 265,056. MILES BROS. & CO. INC., New York, N. Y. Filed Apr. 18, 1928.



The words "Trade-Mark" are disclaimed apart from the other features of the mark shown in the drawing.
For Shaving Brushes.
Claims use since Nov. 1, 1927.

Ser. No. 268,177. E. R. SQUIBB & SONS, New York, N. Y. Filed June 16, 1928.

OR-A-LO

For Toothbrush.
Claims use since June 14, 1928.

CLASS 31.

Filters and Refrigerators.

Ser. No. 250,214. LEONARD KAY WRIGHT, New York, N. Y. Filed June 8, 1927.

FREEZIDOR

For Refrigerating Apparatus and Parts or Units Thereof.
Claims use since May 31, 1927.

CLASS 32.

Furniture and Upholstery.

Ser. No. 257,050. THE COLUMBUS SHOW CASE CO., Columbus, Ohio. Filed Nov. 4, 1927.



The word "Columbus" is disclaimed.
For Store Furniture—Namely, Show Cases, Wall Cases, Wood Frame and Frameless Glass Cases, Counters, Counter Show Cases, Tables, Back Bars, Magazine Racks, Bakery, Cases and Show-Case Fixtures.
Claims use since 1905.

Ser. No. 258,041. RAVENSWOOD OFFICE SPECIALTIES COMPANY, Chicago, Ill. Filed Nov. 25, 1927.

INADRAWR

For Stationery Files.
Claims use since Sept. 1, 1915.

Ser. No. 260,036. HERBERT ARTHUR THORNDIKE, doing business as The Dixietoy Company, Orlando, Fla. Filed Jan. 12, 1928.

Dixietoy

For Children's Chairs, Tables, and Seats.
Claims use since Dec. 20, 1927.

Ser. No. 261,151. ST. LOUIS WINDOW DISPLAY FIXTURE COMPANY, St. Louis, Mo. Filed Feb. 3, 1928.

Displays of Distinction

For Window Display Fixtures for Stores—Namely, Wood, Glass, and Metal Window Stands and Tops Therefor for Display of All Sorts of Store Wares, and Dividers and Bases for Display Forms and Tops.
Claims use since Jan. 2, 1927.

Ser. No. 266,911. JOHN BELLOCCHIO, New York, N. Y. Filed May 24, 1928.

JORENE

For Extension Tables Made of Wood.
Claims use since May 18, 1928.

Ser. No. 267,055. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis. Filed May 26, 1928.

Jamesway

For Milk Stools.
Claims use since Mar. 1, 1927.

Ser. No. 267,520. TORRINGTON SPECIALTY COMPANY, INC., Torrington, Conn. Filed June 5, 1928.

PLAZA

For Collapsible Chairs, Benches, and Tables.
Claims use since May 24, 1928.

CLASS 33.

Glassware.

Ser. No. 267,227. BLUE RIDGE GLASS CORPORATION, Kingsport, Tenn. Filed May 31, 1928.

BLUE RIDGE GLASS CORP. KINGSPORT: TENN.

Applicant disclaims the words "Kingsport, Tenn." apart from the mark shown.
For Flat Glass.
Claims use since Sept. 7, 1927.

CLASS 35.

Belting, Hose, Machinery Packing, and Nonmetallic Tires.

Ser. No. 249,928. SAFETY GLASS AND XETAL PRODUCTS, LIMITED, Stapleford, England. Filed June 2, 1927.

XETAL

For Belting, Including Conveyor Belting and Tubular Belting of Cotton, Linen, Hemp, and Rubber, and Cotton, Linen, and Hemp Coated or Impregnated with Stabilized Rubber Latex; Machinery Packing Composed of Textile Fabric Impregnated with Stabilized Rubber Latex; Hose of Cotton, Linen, or Hemp, and Cotton or Linen or Hemp Impregnated with Stabilized Rubber Latex; Nonmetallic Tires of Cotton, Linen, and Hemp, and Cotton, Linen, and Hemp Impregnated with Stabilized Rubber Latex; Piping of Rubber and Textile Fabric Impregnated with Rubber.
Claims use since November, 1920.

Ser. No. 253,850. THE MANHATTAN RUBBER MFG. CO., Passaic, N. J. Filed Aug. 23, 1927.

Hycoe

For Belts, Hose, and Packing Made of Rubber or Rubber and Fabric.
Claims use since Aug. 6, 1927.

Ser. No. 265,867. WEBB BELTING CO., Kansas City, Mo. Filed May 3, 1928.



MILLER

The word "Miller" is disclaimed apart from the mark shown.
For Leather Belt for Flour Mills.
Claims use since on or about 1923.

Ser. No. 267,130. NORMAN L. KUEHN, doing business as N. L. Kuehn Company, Milwaukee, Wis. Filed May 28, 1928.

SUPER

For Hose Made of Fabric or Rubber, or Both.
Claims use since Dec. 1, 1927.

Ser. No. 267,321. SOUTHERN TIRE AND RUBBER COMPANY, Augusta, Ga. Filed June 1, 1928.

MARINE

For Auto Tires and Tubes.
Claims use since May 20, 1928.

CLASS 36.

Musical Instruments and Supplies.

Ser. No. 255,836. BEE JAY PRODUCTS CO., INC., Long Island City, N. Y. Filed Oct. 10, 1927.

TIVOLETTE

For Stringed Musical Instruments and Parts Thereof, Being in the Nature of a Banjo or Similar Intsrument, and Adapted to be Played by Picking or Plucking the Strings Thereof.
Claims use since about Aug. 29, 1927.

Ser. No. 262,253. ORCHESTRAPHONE COMPANY, Chicago, Ill. Filed Feb. 25, 1928.

Orchestraphone

For Phonographs.
Claims use since Aug. 1, 1927.

Ser. No. 266,892. SIMSON & FREY, INC., New York, N. Y. Filed May 23, 1928.

Gilt Edge

For Reeds for Clarinets, Oboes, Saxaphones, and Similar Musical Instruments.
Claims use since Apr. 2, 1928.

CLASS 38.

Prints and Publications.

Ser. No. 267,051. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis. Filed May 26, 1928.

Jamesway

For Plans and Specifications for Farm Buildings.
Claims use since Mar. 1, 1921.

CLASS 39.

Clothing.

Ser. No. 240,812. ELFIE, INC., New York, N. Y. Filed Dec. 1, 1926.

Elfie

For Children's, Girls', and Women's Clothing—Namely, Dresses, Frocks, Gowns, Suits, and Cloaks.
Claims use since Oct. 25, 1926.

Ser. No. 248,411. HUROWITZ & ERDRICH, New York, N. Y. Filed May 4, 1927.

Swany

For Ladies' Cloaks.
Claims use since on or about Nov. 15, 1926.

Ser. No. 252,081. BRAEBURN OF ROCHESTER, INC., Rochester, N. Y. Filed July 15, 1927.



For Coats for Any Suits, Overcoats, Topcoats, and Tuxedos.
Claims use since Apr. 1, 1927.

Ser. No. 260,969. ARTHUR LAURENCE WILSON, Hamilton, Ontario, Canada. Filed Jan. 31, 1928.

BACHELOR

For Leather Shoes.
Claims use since Nov. 17, 1921.

Ser. No. 261,776. STERN BROTHERS, New York, N. Y. Filed Feb. 16, 1928.

Pharmant

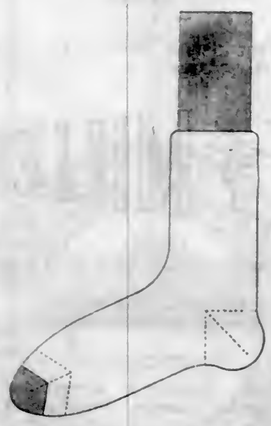
For Ladies' Collars; Ladies' Scarves; Women's and Misses' Dresses, Women's and Misses' Suits, Women's Coats, Women's Skirts for Outer and Under Wear, Misses' and Boys' Blouses; Women's, Children's, and Misses' Trimmed and Untrimmed Hats; Women's Knitted Under Wear; Women's Leather Shoes, Petticoats, and Leather Gloves.
Claims use since Feb. 4, 1928.

Ser. No. 261,834. PENDLETON WOOLEN MILLS, Portland, Oreg. Filed Feb. 17, 1928.

ZION NATIONAL PARK

For Men's and Boys' Clothing—Namely, Mackinaws, Overcoats, Stockings, Outer Woolen Shirts, and Sweaters.
Claims use since Sept. 1, 1926.

Ser. No. 263,155. INTERWOVEN STOCKING COMPANY, New Brunswick, N. J. Filed Mar. 14, 1928.



The mark consists of the color green applied all around the section located adjacent to the point of the toe of the sock and extending a short distance back from the point of the toe. The stocking shown in the drawing forms no part of applicant's trade-mark, and the lining adjacent to the toe thereof indicates color green.
For Men's and Boys' Socks or Half Hose.
Claims use since December, 1924.

Ser. No. 263,432. SEXTON MANUFACTURING COMPANY, Fairfield, Ill. Filed Mar. 19, 1928.

GoldenWest

For Men's and Children's Under Wear and Night Wear—Namely, Union Suits, Drawers, Nightshirts, and Pajamas Made of Woven Textiles.
Claims Use since Jan. 3, 1927.

Ser. No. 263,728. SEXTON MANUFACTURING COMPANY, Fairfield, Ill. Filed Mar. 24, 1928.

LITTLE RASCAL

For Children's Underwear and Night wear—Namely, Union Suits and Sleepers Made of Woven Textiles.
Claims use since Jan. 30, 1928.

Ser. No. 264,066. BERNE MFG. CO., Berne, Ind. Filed Mar. 30, 1928.

WINNER

For Men's Work Clothing—Namely, Overalls, Combined Suits, Pants, Shirts; Children's Suits, Sweaters; Coats, Sheep-Lined, Leather, or Rubber; Work Gloves Made of Cotton, Wool, and Leather.
Claims use since Dec. 29, 1927.

Ser. No. 264,682. O. C. HANSEN MFG. CO., Milwaukee, Wis. Filed Apr. 11, 1928.

Sac-Fit

The word "Fit" forms a part of the registration sought only in association with the other features of the mark shown in the drawing.
For Men's Unlined Leather Street Gloves.
Claims use since Jan. 21, 1928.

Ser. No. 264,931. SAMUEL VIENER, New York, N. Y. Filed Apr. 16, 1928.

Vee Tex

For Underwear of Knitted and Textile Fabrics for Men, Women, and Children—Namely, Shirts, Drawers, Union Suits, and Bloomers; Wearing Apparel for Men, Women, and Children—Namely, Sweaters, Blouses, Bath Robes, Lumberjackets, Dress, Negligee, and Work Top Shirts.
Claims use since April, 1925.

Ser. No. 265,110. LOUIS LOWY, New York, N. Y. Filed Apr. 19, 1928.

RITEFORM SHOES

Applicant disclaims all right to the exclusive use of the word "Shoes" which appears upon the drawing.
For Shoes Which are Constructed of Leather, Rubber, or of a Combination of These Materials.
Claims use since Feb. 23, 1928.

Ser. No. 265,773. BATAVIA GARMENT CORPORATION, Batavia, N. Y. Filed May 2, 1928.

OURALLS

For Play Suits, Children's Wash Suits, and Overalls.
Claims use since January, 1928.

Ser. No. 265,800. D. M. OBERMAN MFG. CO., Jefferson City, Mo. Filed May 2, 1928.



MAN BILT

The drawing is lined for blue.
For Men's and Boys' Overalls, Overall Jackets, Coveralls or Combination Work Suits, Work Shirts, and Lumberjacks.
Claims use since February, 1928.

Ser. No. 265,862. JULIE STURGIS, New York, N. Y. Filed May 3, 1928.

Julie's

For Ladies' Gowns, Wraps, Scarves, Coats, and Negligees.
Claims use since Dec. 1, 1927.

Ser. No. 265,863. ALFRED J. SWEET CO., Auburn, Me. Filed May 3, 1928.

Sally Sweet Shoes

No exclusive use of the word "Shoes" apart from the combination shown in the drawing is claimed by applicant.
For Leather Shoes.
Claims use since Mar. 12, 1928.

Ser. No. 265,871. FRIEDMAN & FRIEDMAN, Brooklyn, N. Y. Filed May 3, 1928.

DREAM DOWN

For Men's, Women's, and Children's Sleeping Garments—Namely, Gowns, Pajamas, and Nightshirts Made of Flannelette, Muslin, and Crepe Materials.
Claims use since Jan. 1, 1928.

Ser. No. 265,882. BEST & CO., INC., New York, N. Y. Filed May 4, 1928.

ROYAL MIDDY

No claim is made to the word "Middy" apart from the mark shown in the drawing.

For Girls' and Boys' Middies, Sailor Suits, Reefers, Topcoats, Hats, and Raincoats.

Claims use since January, 1913.

Ser. No. 265,923. P-K MANUFACTURING COMPANY, Kansas City, Mo. Filed May 4, 1928.

P-K

SERVICE ALLS

No claim is made to the word "Service" apart from the mark shown.

For Overalls, Jackets, Pants, and One-Piece Work Suits.

Claims use since Mar. 24, 1928.

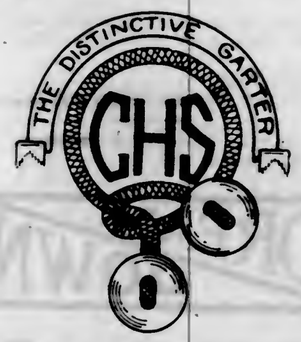
Ser. No. 265,941. MEYER BERMAN, doing business as M. Berman & Son, New York, N. Y. Filed May 5, 1928.

SENATOR

For Trousers for Men and Boys.

Claims use since January, 1913.

Ser. No. 265,995. CHARLES H. SUCKEL, doing business as C. H. S. Garter Company, New York, N. Y. Filed May 5, 1928.



No claim is made to the words "The Distinctive Garter" and to the pictorial representation of the garter except in the particular arrangement and association in which they appear with the rest of the trade-mark as shown in the drawing.

For Garters.

Claims use since Mar. 1, 1928.

Ser. No. 266,005. WOODBURY SHOE MFG. CO., Derry, N. H. Filed May 5, 1928.



The picture appearing on the drawing is a fanciful illustration.

For Men's, Women's, and Children's Boots, Shoes, and Slippers Made Wholly or in Part of Leather, Rubber, Canvas, or Textile Material.

Claims use since Apr. 16, 1928.

Ser. No. 266,007. WOODBURY SHOE MFG. CO., Derry, N. H. Filed May 5, 1928.



The lining in the drawing is for the purpose of shading only.

For Men's, Women's, and Children's Boots, Shoes, and Slippers Made Wholly or in Part of Leather, Rubber, Canvas, or Textile Materials.

Claims use since Feb. 15, 1928.

Ser. No. 266,008. WOODBURY SHOE MFG. CO., Derry, N. H. Filed May 5, 1928.



The lining on the drawing is for the purpose of shading only.

For Men's, Women's, and Children's Boots, Shoes, and Slippers Made Wholly or in Part of Leather, Rubber, Canvas, or Textile Material.

Claims use since Feb. 15, 1928.

Ser. No. 266,083. JULIUS H. FUNK COMPANY, Atlanta, Ga. Filed May 8, 1928.



No claim is made for the exclusive right to the use of the words "Cap" and "Does Fit" which appear on drawing.

For Cloth Caps as Headwear for Men and Boys.

Claims use since Nov. 1, 1927.

Ser. No. 266,243. GORDON BROS. CAP CO., INC., Chicago, Ill. Filed May 11, 1928.

GORBRO
CAP
SHOWER PROOFED

No claim is made to the words "Cap" and "Shower Proofed" except in connection with the mark as shown.

For Men's and Boys' Caps and Hats.

Claims use since Feb. 1, 1928.

Ser. No. 266,334. TYSON SHIRT CO., Norristown, Pa. Filed May 12, 1928.

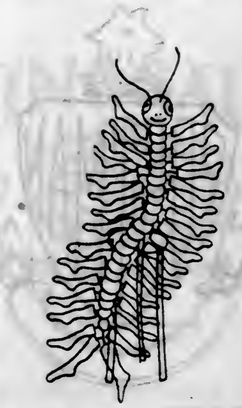
MELOSPUN

Exclusive use of the word "Spun" is disclaimed.

For Men's and Boys' Negligee, Dress, and Work Shirts; Pajamas, Nightshirts, Men's and Boys' Textile Underwear; Men's and Boys' Coats, Pants, and Vests.

Claims use since Mar. 1, 1927.

Ser. No. 266,343. ELINOR T. ABEL, doing business as The Elinor Shop, Washington, D. C. Filed May 14, 1928.



"A STOCKING FOR EVERY LEG"

The words "A Stocking for Every Leg" are disclaimed apart from the mark shown.

For Hosiery.

Claims use since Mar. 17, 1928.

Ser. No. 266,344. ALDERWOOD KNITTING MILLS, Portland, Oreg. Filed May 14, 1928.

Alderwood

For Men's, Women's, and Children's Outer Garments and Knit Wear—Namely, Suits, Coats, Mackinaws, Scarfs, Hose, Knit Gloves, Caps, Sweaters, Overcoats, Bathing Suits, Golf Suits, and Knickers.

Claims use since Mar. 15, 1928.

Ser. No. 266,426. HOPE KNITTING CO., Cohoes, N. Y. Filed May 15, 1928.



No claim is made to the word "Coat" apart from the mark shown in the drawing.

For Men's and Boys' Knitted Sport Coats and Sweaters, Knitted Knickers, and Knitted Vests.

Claims use since Mar. 1, 1928.

Ser. No. 266,509. BACMO-POSTMAN CO., INC., New York, N. Y. Filed May 17, 1928.

POSTMAN

For Leather Gloves.
Claims use since about August, 1924.

Ser. No. 266,865. THE H. D. LEE MERCANTILE COMPANY, Kansas City, Mo. Filed May 23, 1928.

WHIZIT

For Overalls and One-Piece Work and Play Suits.
Claims use since July, 1927.

Ser. No. 266,969. BERGER HOSIERY COMPANY, INC., Philadelphia, Pa. Filed May 23, 1928.

"EMERALDTOE"

No claim is made to the exclusive use of the word "Toe" apart from the mark shown.
For Hosiery.
Claims use since about Aug. 31, 1927.

Ser. No. 267,032. BRONSTON BROS. AND CO., INC., New York, N. Y. Filed May 26, 1928.

PEDO

For Men's, Women's, and Children's Straw, Panama, and Felt Hats.
Claims use since July 1, 1926.

Ser. No. 267,107. AMERICAN HOSIERY COMPANY, New Britain, Conn. Filed May 28, 1928.

AMHO

For Knitted and Woven Goods Comprising Undershirts, Underdrawers, Union Suits, Bathing Suits, Sweaters, and Hosiery, for Men, Women, and Children, of Various Materials Comprising Cashmere, Cashmere Wool, Wool Merino, Pure Linen, Pure Silk, Silk Mixed, Cotton, Lisle Thread, and Rayon or Artificial Silk and Mixtures of the Same.
Claims use since August, 1912.

Ser. No. 267,138. THE MAY DEPARTMENT STORES COMPANY, St. Louis, Mo. Filed May 28, 1928.

Mary Ellen

For Belts in the Nature of Garment Supporters.
Claims use since February, 1928.

Ser. No. 267,302. GIMBEL BROTHERS, INC., New York, N. Y.; Philadelphia, Pa.; Milwaukee, Wis.; and Pittsburgh, Pa. Filed June 1, 1928.

Silverlane

For Children's, Misses', Girls', and Women's Dresses.
Claims use since Apr. 7, 1928.

Ser. No. 267,304. THE GRAFF COMPANY, INC., New York, N. Y. Filed June 1, 1928.

"The Lounger"

For Men's Suits, Topcoats, and Overcoats.
Claims use since Mar. 6, 1928.

Ser. No. 267,307. ALFRED J. LOWE, Los Angeles, Calif. Filed June 1, 1928.

Aloha

For Women's Wear—Namely, Coats and Dresses.
Claims use since Jan. 1, 1928.

Ser. No. 267,334. PERLEY E. BARBOUR, doing business as Barbour Welting Company, Montello Station, Brockton, Mass. Filed June 2, 1928.

STOUTSOLE

For Welting for Boots and Shoes.
Claims use since about Apr. 15, 1928.

Ser. No. 267,361. JAMES T. JOHNSON, Jr., doing business as Sci-En-Tex Industries, Scranton, Pa. Filed June 2, 1928.

Famous Trainers

For Union Suits, Undershirts, and Drawers for Boys, All Made of Knitted Material.
Claims use since May 25, 1928.

Ser. No. 267,370. MCGREEVEY, WEBBING & HOWELL, INC., New York, N. Y. Filed June 2, 1928.

Janelle

For Ladies' Dresses, Hats, Coats, Suits.
Claims use since about Mar. 1, 1928.

Ser. No. 267,386. DR. A. POSNER SHOES, INC., New York, N. Y. Filed June 2, 1928.

POSTURITE
To Foster Your Posture

For Shoes, Made of Leather, Rubber, Fabric or Combinations Thereof.
Claims use since Mar. 5, 1928.

Ser. No. 267,405. CARSON PIRIE SCOTT & Co., Chicago, Ill. Filed June 4, 1928.

GLENEAGLES

For Hosiery.
Claims use since about March, 1926.

Ser. No. 267,426. KIRBY HATS, INC., New York, N. Y. Filed June 4, 1928.

EXCELLED BY NONE
KIRBY

Applicant disclaims the use of the words "Excelled by None" apart from the mark shown in the drawing.
For Men's and Boys' Hats and Caps.
Claims use since Mar. 1, 1928.

Ser. No. 267,430. SAUL R. LIPPMAN & BRO., INC., New York, N. Y. Filed June 4, 1928.

KING SAUL
PAJAMA

Applicant disclaims the word "Pajama" apart from the mark shown.
For Men's Dress and Work Shirts and Pajamas.
Claims use since Feb. 24, 1928.

CLASS 40.

Fancy Goods, Furnishings, and Notions.

Ser. No. 263,448. UNIVERSAL BUTTON FASTENING & BUTTON COMPANY, Detroit, Mich. Filed Mar. 19, 1928.

RUST PROOF

No claim is made to the words "Rust Proof" per se.
For Nonprecious-Metal Buttons.
Claims use since Feb. 28, 1928.

Ser. No. 264,285. FRED BUTTERFIELD & Co., INC., New York, N. Y. Filed Apr. 4, 1928.

LIGHT O' DAY

For Buttons of Nonprecious-Metal, Braids, Tapes, and Dress Shields.
Claims use since Jan. 16, 1928.

Ser. No. 266,366. MARSHALL FIELD & COMPANY, Chicago, Ill. Filed May 14, 1928.



For Needles for Hand Use.
Claims use since 1890.

Ser. No. 267,071. THE MOHAWK MERCHANDISE COMPANY, New York, N. Y. Filed May 26, 1928.

ATLAS

For Combs Made of Hard Rubber or Pyroxylin Plastic.
Claims use since Dec. 1, 1927.

Ser No. 267,199. I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed May 29, 1928.

Finesse

For Dress Shields.
Claims use since May 24, 1928.

Ser. No. 267,200. I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed May 29, 1928.

Jubilee

For Dress Shields.
Claims use since May 24, 1928.

Ser. No. 267,773. The JANSZEN COMPANY, Cincinnati, Ohio. Filed June 9, 1928.

DOT



For Shoe Laces.
Claims use since Feb. 10, 1928.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 254,503. N. V. NEDERLANDSCHE KUNSTZIJDEFABRIEK, Arnhem, Netherlands. Filed Sept. 8, 1827.

MODERELLA

For Ribbons, Materials, Knitted Goods, and Tricots in the Piece Made from Artificial Silk and Cotton and Linen.
Claims use since July 22, 1927.

Ser. No. 256,787. MERRIMACK MANUFACTURING COMPANY, Lowell, Mass. Filed Oct. 29, 1927.



For Cotton Piece Goods.
Claims use since Apr. 19, 1927.

Ser. No. 260,217. DE L'OPERA FABRICS CORPORATION, New York, N. Y. Filed Jan. 17, 1928.



The lines shown in the drawing indicate the color red.
For Chiffon in the Piece Made of Silk.
Claims use since July, 1927.

Ser. No. 264,317. VIOLA MCWILLIAMS, Chicago, Ill. Filed Apr. 4, 1928.

DILRUBA

For Drapes, Pillow Covers, Table Covers, Doilies, Bed Spreads, Slip Covers for Furniture, Cloth Paneling and Cloth Wall Hangings.
Claims use since January, 1926.

Ser. No. 265,368. DE L'OPERA FABRICS CORPORATION, New York, N. Y. Filed Apr. 25, 1928.



The lines shown in the drawing indicate the color green.
For Silk Chiffon in the Piece.
Claims use since February, 1928.

Ser. No. 267,872. STEPHEN SANFORD & SONS INC., Amsterdam, N. Y. Filed June 11, 1928.

Sanfordshah

For Axminster Carpets and Rugs.
Claims use since Mar. 31, 1928.

Ser. No. 268,078. CHENEY BROTHERS, South Manchester, Conn. Filed June 15, 1928.

Elidure

For Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.
Claims use since Feb. 16, 1928.

Ser. No. 268,141. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed June 16, 1928.

Diavel

For Pile Fabrics in the Piece.
Claims use since June 11, 1928.

Ser. No. 268,222. HOLDEN-LEONARD COMPANY, New York, N. Y. Filed June 18, 1928.

"CHANT D'OR"

For Worsted and Woolen Textile Fabrics.
Claims use since about Jan. 15, 1928.

Ser. No. 268,224. HOLDEN-LEONARD COMPANY, New York, N. Y. Filed June 18, 1928.

"DALILA"

For Worsted and Woolen Textile Fabrics.
Claims use since about Jan. 15, 1928.

Ser. No. 268,225. HOLDEN-LEONARD COMPANY, New York, N. Y. Filed June 18, 1928.

CHRYSOLORA"

For Worsted and Woolen Textile Fabrics.
Claims use since about Jan. 15, 1928.

Ser. No. 268,288. H. B. MALLINSON & CO. INC., New York, N. Y. Filed June 19, 1928.

Legion

For Silk Piece Goods.
Claims use since Apr. 15, 1928.

CLASS 43.

Thread and Yarn.

Ser. No. 268,056. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed June 14, 1928.

PENNIMAID

For Threads.
Claims use since May 14, 1928.

Ser. No. 268,057. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed June 14, 1928.



For Threads.
Claims use since May 14, 1928.

Ser. No. 268,287. LONG ISLAND YARN CORPORATION, New York and Long Island City, N. Y. Filed June 19, 1928.



For Cotton and Rayon Yarns.
Claims use since Jan. 2, 1928.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 265,178. AUGUSTUS G. VINING, Atlanta, Ga. Filed Apr. 20, 1928.

Hygiene Brand

SHP

SANITARY PROTECTORS

HYGIENIC

The words "Brand, Sanitary, Hygienic," and "Protectors" are disclaimed apart from the other features of the drawing.

For Prophylactic Rubber Articles for Preventation of Contagious Diseases.

Claims use since Apr. 1. 1927.

Ser. No. 265,490. THE WM. MEYER COMPANY, Chicago, Ill. Filed Apr. 27, 1928.

SIROCCO

For Electric Hair Dryers.

Claims use since Apr. 7, 1928.

Ser. No. 266,293. YVETTE CO., New York, N. Y. Filed May 11, 1928.



The word written in script shown on the drawing is "Evera."

For Permanent-Waving Machines and Accessories and Equipment Therefor—Namely, Hair Curlers, Hair Dryers, Hair Protectors, Hair Rubber Insulators, Thermometers, and Electric Curler Connections.

Claims use since Feb. 1, 1928.

Ser. No. 266,364. THE WILLIAM M. EISEN COMPANY, INC., New York, N. Y. Filed May 14, 1928.

Invisa

For Elastic Stockings.

Claims use since Feb. 15, 1928.

Ser. No. 266,376. HYGEIA NURSING BOTTLE COMPANY, INC., Buffalo, N. Y. Filed May 14, 1928.



The representation of a nursing bottle is disclaimed.

For Baby or Nursing Bottles.

Claims use since May 1, 1928.

Ser. No. 266,883. THE R. F. CORP., Boston, Mass. Filed May 23, 1928.

POPULAR

For Clinical Thermometers.

Claims use since 1916.

Ser. No. 268,191. JOHN WANAMAKER PHILADELPHIA, Philadelphia, Pa. Filed June 16, 1928.

Serene

For Sanitary Napkins.

Claims use since June 1, 1928.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 266,161. WIDMER'S GRAPE PRODUCTS INDUSTRY, Naples, N. Y. Filed May 9, 1928.



The words appearing in the drawing are disclaimed as follows: "Delaware Brand, Concord Grape Juice, Sugar Added, Unfermented, Naples, New York, Contents 4 Fluid Oz." The words "Widmer's Wine Cellars" are used as a trade-mark and are not disclaimed.

For Grape Juice.

Claims use since May 31, 1925.

Ser. No. 266,162. WIDMER'S GRAPE PRODUCTS INDUSTRY, Naples, N. Y. Filed May 9, 1928.



The drawing is lined to indicate blue and red color. The words appearing on the drawing are disclaimed, as follows: "American Brand, Grape Juice, Unfermented, Sugar Added, Contents 4 Fl. Oz. Naples, Ontario Co., N. Y." The name "Widmer Brothers" is used as a trade-mark and is not disclaimed.

For Grape Juice.

Claims use since May 18, 1925.

Ser. No. 266,164. WIDMER'S GRAPE PRODUCTS INDUSTRY, Naples, N. Y. Filed May 9, 1928.



The drawing is lined to indicate the color blue. With the exception of the word "Widmer's" all words on the drawing are disclaimed, as follows: "4 Oz. (both appearances), Grape Juice, Sugar, Concord, Added, Serve Cold, Keep Cold After Opening, Naples, N. Y." The name "Widmer's" is used as a trade-mark and is not disclaimed.

For Grape Juice.

Claims use since Apr. 23, 1914.

Ser. No. 266,915. THE CRANADINE COMPANY, Hammonton, N. J. Filed May 24, 1928.

CRANDINE

For Nonalcoholic, Noncereal, Maltless Beverages Made from Cranberry Juice and Sold as Soft Drinks and Syrups for Making the Same.

Claims use since May 1, 1928.

Ser. No. 266,916. THE CRANADINE COMPANY, Hammonton, N. J. Filed May 24, 1928.



For Nonalcoholic, Noncereal, Maltless Beverages Made from Cranberry Juice and Sold as Soft Drinks and Syrups for Making the Same.

Claims use since May 1, 1928.

Ser. No. 267,349. W. J. BUSH AND COMPANY, LIMITED, London, England. Filed June 2, 1928.

VANBEENOL

For Syrups, Essences, Flavourings, Fruit Extracts, All Being Goods for Use in the Manufacture of Nonalcoholic, Maltless Beverages.
Claims use since July 16, 1927.

Ser. No. 267,702. NICHOLAS DEAKIDES, Athens, Ga. Filed June 8, 1928.

Cherisan

For Nonalcoholic Beverages, Such as Ginger Ale and Other Beverages Commonly Known as Soft Drinks.
Claims use since July, 1927.

Ser. No. 267,864. GEORGE CHANNING SMITH, New York, N. Y. Filed June 11, 1928.

Miri-ko

For Syrup for Nonalcoholic Soft Drink.
Claims use since Apr. 9, 1928.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 233,382. MIYAKICHI KUMAMOTO, doing business as Kumamoto Fish Co., Seattle, Wash. Filed June 17, 1926.



Applicant makes no claim to the Japanese characters or the word "Kogane-Age" or to the pictorial representation of the goods except in connection with the other features of the mark. The English translation of the Japanese characters shown in the mark is: "Fried Golden."
For Canned Fish.
Claims use since Jan. 1, 1926.

Ser. No. 240,616. LEONARD MONHEIM, Aachen-Susterfeld, Germany. Filed Nov. 26, 1926.

Trumpf

For Cocoa Oats and Cocoa Acorn (Admixtures of Powders of Cocoa with Oatmeal or Acorn Meal), Chocolate, Cocoa Extracts, Sugared Fruit Juices for Food Uses, Cakes, Fruit Cakes, Biscuits, Waffles, Rusks, Yeast, and Pudding Powder.
Claims use since Aug. 7, 1917.

Ser. No. 240,617. LEONARD MONHEIM, Aachen-Susterfeld, Germany. Filed Nov. 26, 1926.

Trumpf

For Cocoa Oats and Cocoa Acorn (Admixtures of Powders of Cocoa with Oatmeal or Acorn Meal), Chocolate, Cocoa Extracts, Sugared Fruit Juices for Food Uses, Cakes, Fruit Cakes, Biscuits, Waffles, Rusks, Yeast, and Pudding Powder.
Claims use since Sept. 2, 1924.

Ser. No. 249,477. HIJO DE JUAN J. NAVARRO, Espinardo-Murcia, Spain, and New York, N. Y. Filed May 24, 1927.



The picture is merely fanciful, and no claim is made to the words "Marca Registrada" except in association with the other features of the mark as shown.
For Paprika.
Claims use since 1905.

Ser. No. 249,874. SUNICAL PACKING COMPANY, San Francisco, Calif. Filed June 1, 1927.

PRUDENCE PENNY

For Canned and Dried Fruits, Dried Vegetables, Canned Tomato Purée made from Trimmings, Green and Ripe Olives in Glass, Dried Figs, Honey, Marmalade, Tomato Paste, Olive Oil, and Mayonnaise.
Claims use since May 3, 1927.

Ser. No. 250,186. JUANITA MILLER, Oakland, Calif. Filed June 8, 1927.

Flower Sweet Hearts



For Candy.
Claims use since Feb. 15, 1918.

Ser. No. 250,222. BROWN COMPANY, Portland, Me., and Belle Glade, Fla. Filed June 9, 1927.

SHAWANO FARM

No claim is made to the word "Farm" apart from the mark shown.
For Fresh Potatoes.
Claims use since on or about Mar. 12, 1927.

Ser. No. 250,679. CONTINENTAL BAKING COMPANY, Wilmington, Del., and New York, N. Y. Filed June 17, 1927.

HOSTESS CAKE

No claim is made to the word "Cake" except in the form and arrangement shown.
For Cake.
Claims use since on or about May 2, 1927.

Ser. No. 250,681. CONTINENTAL BAKING COMPANY, Wilmington, Del., and New York, N. Y. Filed June 17, 1927.

HOSTESS CAKE

No claim is made to the word "Cake" except in the form and arrangement shown.
For Cake.
Claims use since on or about May 2, 1927.

Ser. No. 251,071. NEW YORK CANNERS, INC., Rochester, N. Y. Filed June 24, 1927. Under 10-year proviso.

WILLETT

The trade-mark consists of the name of a well known colonial officer during the American Revolution.
For Canned Fruits and Canned Vegetables.
Claims use since June 6, 1894.

Ser. No. 251,236. NEW YORK CANNERS, INC., Rochester, N. Y. Filed June 28, 1927.

FORT



The picture associated with the words "Fort Stanwix" is an artist's conception of old Fort Stanwix.
For Canned Fruits, Canned Vegetables, Tomato Ketchup, Chili Sauce, and Fruit Preserves.
Claims use since Apr. 27, 1896.

Ser. No. 252,100. THE GREENE-BABCOCK CO., Cleveland, Ohio, assignor to The Grocers-Producers Company of Cleveland, Ohio, a Corporation of Delaware. Filed July 15, 1927.

CLOVER FARM

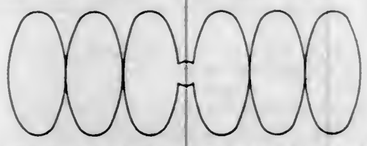
For Butter, Oleomargarine, Eggs, Pastry Flour, and Bread.
Claims use since 1882.

Ser. No. 252,182. LANSING B. BAILEY, Lodi, Calif. Filed July 18, 1927.

TEA GARDEN

For Fresh Citrus Fruits, Fresh Deciduous Fruits, Fresh Vegetables, Fresh Cantaloupes, Fresh Casabas, Fresh Honey Dews, and Grapes.
Claims use since May 13, 1927.

Ser. No. 254,312. VAN CAMP SEA FOOD COMPANY, INC., Terminal Island, Calif. Filed Sept. 2, 1927.



For Canned Fish, Smoked Fish, and Preserved Fish.
Claims use since July 1, 1927.

Ser. No. 254,567. AVO MANHATTAN SPICE CO. INC., Jersey City, N. J. Filed Sept. 10, 1927.



For Spice Mixture for Seasoning Purposes.
Claims use since Feb. 18, 1927.

Ser. No. 255,963. CHINCHIOLO BROS. & CO., Stockton, Calif. Filed Oct. 12, 1927.

RICORDO

For Fresh Deciduous Fruits.
Claims use since Sept. 1, 1926.

Ser. No. 256,439. AMERICAN FRUIT GROWERS, INC., Los Angeles, Calif. Filed Oct. 22, 1927.

BLACK BABY



For Fresh Grapes.
Claims use since Aug. 11, 1927.

Ser. No. 256,797. TEXAS CITY CANNERIES, Texas City, Tex. Filed Oct. 29, 1927.

TEXAS QUEEN

For Canned and Preserved Figs.
Claims use since Sept. 7, 1927.

Ser. No. 256,897. A. E. BARKER & CO. OF CALIFORNIA, Los Angeles, Calif. Filed Nov. 2, 1927.

HEAVYWEIGHT

For Fresh Vegetables, Fresh Grapes, Fresh Peaches, and Fresh Cantaloupes.
Claims use since Sept. 29, 1927.

Ser. No. 256,956. GEORGE E. MANN, doing business as George E. Mann & Co., El Centro, Calif. Filed Nov. 2, 1927.

Puritan

For Fresh Lettuce.
Claims use since July 10, 1927.

Ser. No. 256,985. PRENTICE W. WILLIAMS, doing business as Fruit Distributors Co. of California, Los Angeles, Calif. Filed Nov. 2, 1927.

Royal Ace

For Fresh Honey Dew Melons, Fresh Casabas, and Fresh Cantaloupes, Fresh Vegetables, and Fresh Deciduous Fruits.
Claims use since Oct. 14, 1927.

Ser. No. 258,390. ARPEAKO, INC., Rochester, N. Y. Filed Dec. 3, 1927.

ARPEAKO

For Smoked Pork Products—Namely, Hams, Bacon, Pork Shoulders, Bacon Squares, Ham Roll, Sliced Bacon, Corned Beef, Smoked Dried Beef, Boiled Hams, Baked Hams, Roasted Hams, Cooked Pork Loin, Frankfurters, Bologna, Pork Sausage, Polish Sausage, Blood Sausage, Headcheese, Liver Sausage, Minced Ham, Pressed Ham, Meat Loaf, and Fresh Pork Cuts.
Claims use since May 9, 1926.

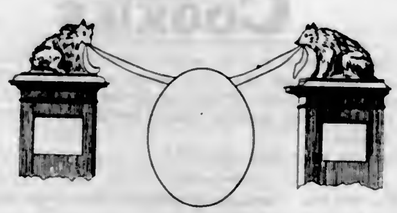
Ser. No. 258,644. MONTGOMERY WARD & CO. INCORPORATED, Chicago, Ill. Filed Dec. 8, 1927.



For Canned Vegetables, Canned Fruits, Canned Soup, Evaporated Milk, Roasted Coffee, Macaroni, Shell Macaroni, and Spaghetti.
Claims use since October, 1925.

Ser. No. 259,951. JOHN R. FISCHER, doing business as Pacific Macaroni Co., Los Angeles, Calif. Filed Jan. 11, 1928.

GOLD MEDAL



No claim is made to the words "Gold Medal" apart from the mark as shown.
For Macaroni, Spaghetti, and Noodles Made of Semolina.
Claims use since November, 1912.

Ser. No. 260,631. EKELMAN-WHITTIER CO., INC., Yakima, Wash. Filed Jan. 25, 1928.



Applicant disclaims the word "Brand" except in the exact relation and association in which it appears.
For Irish Potatoes in Their Natural State.
Claims use since Aug. 15, 1927.

Ser. No. 262,131. SPERRY FLOUR CO., San Francisco, Calif. Filed Feb. 23, 1928.

Wheat Hearts

For Cereal Breakfast Foods.
Claims use since Dec. 23, 1903.

Ser. No. 263,766. KENT & COMPANY, Indianola, Iowa. Filed Mar. 26, 1928.

MOR-GAIN

For Pig Meal; Poultry Feeds, Including Laying Mash, Growing Mash, Poultry Scratch, Chick Scratch, and Starting Mash; and Dairy Feeds, Including Dairy Supplement.
Claims use since November, 1927.

Ser. No. 263,979. THE SOUTHWESTERN MILLING COMPANY, INC., New York, N. Y. Filed Mar. 29, 1928.



THE
Southwestern Milling Co. Inc.
Kansas City, U.S.A.

DUTCH BOY

Exclusive right to the use of the words "The Southwestern Milling Co. Inc." and "Kansas City, U. S. A." are disclaimed apart from the other features of the mark shown on the drawings.
For Self Rising Flour and Wheat Flour.
Claims use since Mar. 27, 1917.

Ser. No. 264,930. EUGENE VENTRE, Opelousas, La. Filed Apr. 16, 1928.



The lining on the drawing indicates the colors red and blue. Applicant disclaims the descriptive word "Shurebest."
For Compound Syrup Made of Cane Sugar, Corn, and Grape Syrup.
Claims use since Dec. 1, 1926.

Ser. No. 265,025. UNITED STATES MACARONI CO. INC., Los Angeles, Calif. Filed Apr. 17, 1928.

ALBERTO

SEMOLINA
ALBERTORETTES

Applicant disclaims the descriptive word "Semolina" apart from the mark as shown in the drawing.
For Macaroni.
Claims use since Oct. 1, 1927.

Ser. No. 265,295. RODDENBERY BROTHERS, Cairo, Ga. Filed Apr. 23, 1928.

SUNNYLAND

For Combination Syrup Made of Corn Syrup and Pure Sorghum Syrup.
Claims use since Oct. 4, 1924.

Ser. No. 265,393. THE METRO CHOCOLATE CO. INC, Brooklyn, N. Y. Filed Apr. 25, 1928.

TOMMY TINKER

For Lollypops.
Claims use since about Mar. 1, 1928.

Ser. No. 265,551. LUCAS RANCHING COMPANY, Cucamonga, Calif. Filed Apr. 28, 1928.

BLUE AND GOLD

For Fresh Deciduous Fruits and Fresh Citrus Fruits.
Claims use since Apr. 6, 1928.

Ser. No. 265,697. ARTHUR SHAW, St. Paul, Minn. Filed Apr. 30, 1928.

Stellar

For Corn Sugar.
Claims use since Oct. 1, 1927.

Ser. No. 266,324. C. G. JOHNSTON & SONS, Clearfield, Pa. Filed May 12, 1928.

Johnston's FAMOUS
Home Made
Health
COOKIES

No claim is made for the words "Home-Made Health Cookies" apart from the mark shown on the drawing. All common-law rights of the applicant in the trade-mark shown in the accompanying drawing are reserved.
For Cookies.
Claims use since Sept. 12, 1927.

Ser. No. 266,336. SEEMAN BROTHERS, INC., New York, N. Y. Filed May 12, 1928

White Rose
TÊTE-À-TÊTE

For Tea Balls.
Claims use since Feb. 7, 1928.

Ser. No. 266,498. NAOSABURO TATSUKAWA, doing business as Ono Trading Co., San Francisco, Calif. Filed May 16, 1928.



No claim is made to the words "Brand, Selected Crab Meat, Packed for, San Francisco, Calif., U. S. A." and the representation of a crab apart from the mark shown.
For Canned Crab Meat.
Claims use since 1926.

Ser. No. 266,499. NAOSABURO TATSUKAWA, doing business as Ono Trading Co., San Francisco, Calif. Filed May 16, 1928.



No claim is made to the words "Brand, Fancy Tuna, Distributors, San Francisco, Calif., U. S. A." and the representation of a fish apart from the mark shown.
For Canned Tuna Fish.
Claims use since 1923.

Ser. No. 266,631. SWIFT AND COMPANY, Chicago, Ill. Filed May 18, 1928.

Silver Fur Food



No claim is made to the word "Food" nor to the representation of a fox apart from the mark shown in the drawing.
For Prepared Food for Meat-Eating Animals.
Claims use since Jan. 30, 1928.

Ser No. 266,789. BURNAND & COMPANY, Los Angeles, Calif, and Nogales, Ariz. Filed May 22, 1928.

Willow Tree

For Fresh Vegetables, Fresh Deciduous Fruits, Fresh Citrus Fruits, Fresh Grapes, Fresh Honey Dews, Fresh Casabas, and Fresh Cantaloupes.
Claims use since 1923.

Ser. No. 266,803. FILICE & PERRELLI CANNING COMPANY, INC., Gilroy, Calif. Filed May 22, 1928.

SOLIPAK

For Canned Fruits and Canned Vegetables.
Claims use since Apr. 10, 1928.

Ser. No. 266,822. LUMMIS & COMPANY, Philadelphia, Pa. Filed May 22, 1928.



For Shelled Pop Corn Not Popped, Pop Corn Popped, and Pop-Corn Confections.
Claims use since Feb. 17, 1928.

Ser No. 266,828. PERFECT FOODS, INC., Lansdale, Pa. Filed May 22, 1928.



No claim is made to the representation of a pretzel or to the words "The Butter Toasted Pretzels, Trade Mark, Always Crisp," and "Crunchy, Perfect Foods, Inc., Lansdale, Pa." apart from the mark as shown on the drawing.
For Pretzels.
Claims use since Feb. 18, 1928.

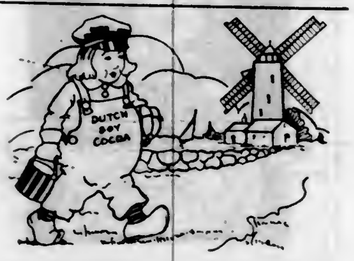
Ser. No. 266,944. NATIONAL ICE CREAM COMPANY, Louisville, Ky. Filed May 24, 1928.

Cake o' Gold

For Ice Cream.
Claims use since Mar. 31, 1928.

Ser. No. 266,965. C. W. ALLISON, doing business as Allison Coffee Company, Los Angeles, Calif. Filed May 25, 1928.

DUTCH BOY COCOA



Applicant disclaims the use of the word "Cocoa" apart from the mark shown in the drawing.
For Cocoa.
Claims use since Apr. 1, 1928.

Ser. No. 267,220. UNIVERSAL MILLS, Fort Worth, Tex. Filed May 29, 1928.

FUL-FLO

For Feed for Livestock.
Claims use since Apr. 1, 1928.

Ser. No. 267,284. WALLACE & CO., Brooklyn, N. Y. Filed May 31, 1928.

Eugéne

For Chocolates and Candies.
Claims use since May 1, 1928.

Ser. No. 267,664. PACIFIC AMERICAN FISHERIES, Chicago, Ill., and South Bellingham, Wash. Filed June 7, 1928.

GREAT NORTHERN

For Canned Salmon.
Claims use since July, 1906.

Ser. No. 267,665. PACIFIC AMERICAN FISHERIES, Chicago, Ill., and South Bellington, Wash. Filed June 7, 1928.

ROYAL FISHER

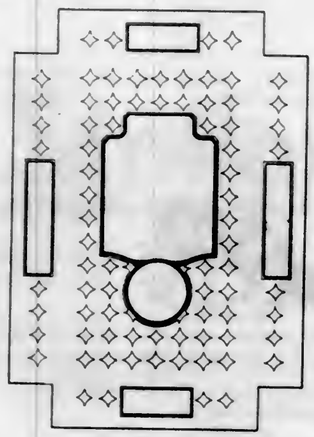
For Canned Salmon.
Claims use since July, 1916.

Ser. No. 267,844. LOOSE-WILES BISCUIT COMPANY, Long Island City, N. Y. Filed June 11, 1928.

LADYFAIR

For Cakes and Cookies.
Claims use since Mar. 17, 1928.

Ser. No. 267,888. ELGIN CHOCOLATE PRODUCTS CO. INC., Elgin, Ill. Filed June 12, 1928.



For Candy.
Claims use since Feb. 15, 1928.

Ser. No. 267,962. ITALIAN FOOD PRODUCTS COMPANY, INC., Long Beach, Calif. Filed June 13, 1928.

LUSTER

For Canned Fish.
Claims use since May 3, 1928.

Ser. No. 267,988. PACIFIC TRADING CO., INC., San Francisco, Calif. Filed June 13, 1928.

PACTRA

For Canned Fish.
Claims use since June 4, 1928.

Ser. No. 268,042. JUNGE BAKING COMPANY, Joplin, Mo. Filed June 14, 1928.

Buddy Bread

The word "Bread" is not claimed apart from the mark shown.
For Bread.
Claims use since May 23, 1928.

CLASS 49.

Distilled Alcoholic Liquors.

Ser. No. 257,591. CURT SCHNITTER, doing business as G. MELDE, Cottbus, Germany. Filed Nov. 15, 1927.



No claim is made to the word "Melde" apart from the mark shown nor to the representation of the bottle apart from the mark shown.
For Cordials, Whiskey, Brandy, Gin, and Liquors.
Claims use since Jan. 20, 1927.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 262,546. ARCHER RUBBER COMPANY, Milford, Mass. Filed Mar. 3, 1928.

"ARCHEROID" SPORT FABRIC

The word "Fabric" is disclaimed except in connection with the other features of the trade-mark as shown.
For Treated Textile Fabrics and Textile Fabrics Treated with Rubber Compounds to Render Same Waterproof and Waterproofed Textile Fabrics in the Piece Suitable for Making Shower-Bath Curtains.
Claims use since Dec. 16, 1927.

Ser. No. 265,997. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed May 5, 1928.

LEXIDE

For Sheet Material Made of Fibre and Rubber for Manufacture Directly or with Further Treatment into a Wide Variety of Articles.
Claims use since Mar. 30, 1928.

Ser. No. 266,022. MONTAGUE D. COHEN, New York, N. Y., assignor to Adolph Schadow, New York, N. Y. Filed May 7, 1928.

MONTECDEN

For Shoe Trees.
Claims use since Mar. 1, 1927.

Ser. No. 266,847. ATHOL MANUFACTURING COMPANY, Athol, Mass. Filed May 28, 1928.

TEREK CLOTH

No claim of exclusive right is made to the word "Cloth" apart from the mark shown.

For Artificial Leather—Namely, Sheeting, Drill, Sateen, Twill, Moleskin, and the Like Coated with Pyroxylin Compound.

Claims use since on or about Jan. 23. 1928.

Ser. No. 266,994. HILOW MANUFACTURING COMPANY, INC., Wichita Falls, Tex. Filed May 25, 1928.

HI-LOW

For Ladders.

Claims use since May 1, 1928.

Ser. No. 267,161. TIFFANY & COMPANY, New York, N. Y. Filed May 28, 1928.



For Medals of Base Metals and Art Bronzes, Etched or Engraved Metal Plates from Which Book Plates are Stricken Off.

Claims use since Mar. 30, 1900.

Ser. No. 267,400. AEROVANE UTILITIES CORPORATION, Wilmington, Del., and New York, N. Y. Filed June 4, 1928.

Aerovane

For Fixed Direction Markers.

Claims use since Apr. 21, 1928.



TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JULY 24, 1928.

244,505. FIGS. NAZLI ALI HAYDAR, Smyrna, Turkey. Filed January 25, 1928. Serial No. 260,634. PUBLISHED MAY 8, 1928. Class 46.

244,506. HAIRDRESSING. FLOMILL CHEMICAL COMPANY, New York, N. Y.
Filed January 25, 1928. Serial No. 260,632. PUBLISHED MAY 8, 1928. Class 6.

244,507. ELECTRIC HOT-WATER HEATER. BETTY BERGER, New York, N. Y.
Filed January 20, 1928. Serial No. 260,373. PUBLISHED MAY 1, 1928. Class 21.

244,508. NONALCOHOLIC, MALTLESS BEVERAGES—NAMELY, APPLE CIDER, CIDER ALE, AND GRAPE JUICE. JAMES R. RICHARDSON, doing business as Adelanto Cider Mill, Los Angeles, Calif.
Filed January 18, 1928. Serial No. 260,292. PUBLISHED MAY 15, 1928. Class 45.

244,509. MECHANICAL ADVERTISING MACHINES HAVING MOVING DISPLAY SIGNS. ROUVIME POLIAKOFF, New York, N. Y.
Filed January 18, 1928. Serial No. 260,288. PUBLISHED MAY 15, 1928. Class 28.

244,510. BATTERY-OPERATED RADIO RECEIVING SETS, A. C. OPERATED RECEIVING SETS, A. C. POWER CONVERTERS (BATTERY ELIMINATORS), LOUD SPEAKERS, AND ELECTRICALLY-OPERATED REPRODUCERS FOR USE WITH PHONOGRAPHS AND PARTS THEREOF. THE CROSLEY RADIO CORPORATION, Cincinnati, Ohio.
Filed January 18, 1928. Serial No. 260,261. PUBLISHED MAY 8, 1928. Class 21.

244,511. ARTICLES OF JEWELRY MADE OF PRECIOUS METALS OR PLATED THEREWITH—NAMELY, JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES, FLAT AND HOLLOW TABLEWARE AND TOILETWARE, CIGARETTE AND CIGAR CASES, INCENSE BURNERS, JEWEL CASES, STATUETTES, VASES, AND PRECIOUS AND SEMIPRECIOUS GEMS. LOFTIS BROS. & CO., Chicago, Ill.
Filed January 17, 1928. Serial No. 260,231. PUBLISHED MAY 1, 1928. Class 28.

244,512. PLAIN AND INLAID LINOLEUM AND CORK CARPET. CONGOLEUM-NAIRN, INC., Philadelphia, Pa.
Filed January 16, 1928. Serial No. 260,164. PUBLISHED MAY 15, 1928. Class 20.

244,513. IMITATION REAL GOLDEN OR SILVER GILT THREADS ON TEXTILE CORE—NAMELY, SILK, SCHAPPE, OR COTTON. MANUFACTURE LYONNAISE DE FILÉS D'OR ET D'ARGENT, Lyon, France.
Filed January 13. 1928. Serial No. 260,607. PUBLISHED MAY 15, 1928. Class 43.

244,514. SMOKE-FLUE DAMPERS. FRANK W. STANKE, doing business as The Bal-Draf Mfg. Co., Milwaukee, Wis., assignor to The Bal-Draf Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin.
Filed January 9, 1928. Serial No. 259,884. PUBLISHED MAY 15, 1928. Class 34.

244,515. DENTIFRICES, NAIL POWDER, CUTICLE ICE, ETC. HARRY D. KOENIG, doing business as Harry D. Koenig & Co., New York, N. Y.
Filed January 9, 1928. Serial No. 259,856. PUBLISHED MAY 1, 1928. Class 6.

244,516. ELECTRICALLY-OPERATED AUTOMOBILE DASHBOARD SIGNAL LIGHT FOR DETERMINING THE BURNING OR NONBURNING OF THE HEAD, TAIL, OR STOP LIGHTS. GEORGE A. HELMLINGER, doing business as Auto Safety Signal Company, San Francisco, Calif.
Filed January 9, 1928. Serial No. 259,852. PUBLISHED MAY 1, 1928. Class 21.

244,517. BATHROOM AND KITCHEN STOOLS. COLUMBIAN ENAMELING & STAMPING CO., Terre Haute, Ind.
Filed January 6, 1928. Serial No. 259,760. PUBLISHED MAY 15, 1928. Class 32.

244,518. A SOLVENT SPOTTING COMPOUND FOR REMOVING PAINTS, VARNISHES, TAR, WAXES, OILS, AND GREASES FROM TEXTILE FABRICS. RIVERSIDE MANUFACTURING CO., St. Louis, Mo.
Filed December 31, 1927. Serial No. 259,590. PUBLISHED MARCH 13, 1928. Class 4.

244,519. A CLEANING AND SPOTTING COMPOUND FOR CLEANING AND REMOVING SPOTS AND STAINS FROM TEXTILE FABRICS. RIVERSIDE MANUFACTURING CO., St. Louis, Mo.
Filed December 31, 1927. Serial No. 259,589. PUBLISHED MARCH 13, 1928. Class 4.

244,520. CANNED FISH. AKTIEBOLAGET SVERIGES FORENADE KONSERVFABRIKER, Gottenborg, Sweden.
Filed December 31, 1927. Serial No. 259,523. PUBLISHED MAY 8, 1928. Class 46.

244,521. LOCKS AND SAFES—NAMELY, PORTABLE SAVINGS BANKS. HAINES MANUFACTURING CORPORATION, Rochester, N. Y.
Filed December 30, 1927. Serial No. 259,491. PUBLISHED MAY 15, 1928. Class 25.

244,522. SKIN FRESHENER AND TONIC. POND'S EXTRACT COMPANY, New York, N. Y.
Filed December 28, 1927. Serial No. 259,419. PUBLISHED MAY 1, 1928. Class 6.

244,523. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES PARTICULARLY ELECTRICAL GRINDERS, BUFFERS, PUMPS, AIR PUMPS, COMPRESSORS, DISC GRINDERS, UNIVERSAL SAWS FOR WOOD OR METAL, POLISHERS, CLEANERS, WOOD-TURNING LATHES, METAL-WORKING LATHES, AND PARTS OF SUCH APPARATUS AND MACHINES. DEMCO, INCORPORATED, Baltimore, Md.
Filed December 24, 1927. Serial No. 259,325. PUBLISHED APRIL 24, 1928. Class 21.

244,524. TEXTILE QUILTING IN THE PIECE AND QUILTS AND MADE-UP PADS OF TEXTILE FABRICS. ACME QUILTING CO., INC., Brooklyn, N. Y.
Filed December 23, 1927. Serial No. 259,270. PUBLISHED MAY 15, 1928. Class 42.

244,525. SILK PIECE GOODS. CONTINENTAL SILK COMPANY, INC., New York, N. Y.
Filed December 19, 1927. Serial No. 259,105. PUBLISHED MAY 15, 1928. Class 42.

244,526. BATTERIES. SYD RADIO STORAGE "B" BATTERY CO., Chicago, Ill.
Filed December 17, 1927. Serial No. 259,085. PUBLISHED MAY 8, 1928. Class 21.

244,527. PERFUME TOILET WATER, FACE POWDER, TALCUM POWDER, FACE CREAM, ROUGE, LIPSTICK, BATH SALTS, SACHET, AND BRILLIANTINE. SOCIÉTÉ A RESPONSABILITÉ LIMITÉE MOLYNEUX & CIE, Paris, France.
Filed December 7, 1927. Serial No. 258,603. PUBLISHED MAY 8, 1928. Class 6.

244,528. PASTES AND POWDERS FOR BEAUTIFYING AND PRESERVING THE TEETH, SKIN, AND HAIR, AND PERFUMERY. ERNEST DALTROFF, doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation, New York, N. Y., a Corporation of New York.
Filed November 29, 1927. Serial No. 258,166. PUBLISHED FEBRUARY 28, 1928. Class 6.

244,529. WOMEN'S, MISSES', AND CHILDREN'S GOWNS, DRESSES, WRAPS, AND COATS. ANNETTA WAIST & DRESS CO. INC., New York, N. Y.
Filed November 22, 1927. Serial No. 257,913. PUBLISHED MARCH 27, 1928. Class 39.

244,530. TOFFEE. THE SAM TURNER COMPANY, Liverpool, England.
Filed November 21, 1927. Serial No. 257,908. PUBLISHED MAY 1, 1928. Class 46.

244,531. CANNED CRAB MEAT. MITSUBISHI SHOJI KAISHA, LTD., Tokyo, Japan; New York, N. Y.; and Seattle, Wash.
Filed November 19, 1927. Serial No. 257,810. PUBLISHED MAY 1, 1928. Class 46.

244,532. RADIO RECEIVING SETS, LOUD SPEAKERS, CONDENSERS, EAR PHONES, TUNING COILS, RADIO ELECTRON TUBES, AND RADIO "PICK-UPS" FOR ATTACHMENT TO PHONOGRAPHS, "PICK-UP" ADAPTERS, AND "PICK-UP" VOLUME CONTROLS. SPLITDORF RADIO CORPORATION, Newark, N. J.
Filed November 17, 1927. Serial No. 257,710. PUBLISHED MAY 8, 1928. Class 21.

244,533. HARMONICAS KNOWN AS MOUTH ORGANS. M. HOHNER, INC., New York, N. Y.
Filed November 16, 1927. Serial No. 257,628. PUBLISHED MAY 1, 1928. Class 36.

244,534. NONFERROUS METALS AND METAL ALLOYS—NAMELY, LEAD, SOLDER, AND BABBITT. AMERICAN SMELTING & REFINING COMPANY, New York, N. Y., and San Francisco, Calif.
Filed November 15, 1927. Serial No. 257,571. PUBLISHED APRIL 3, 1928. Class 14.

244,535. NONFERROUS METALS AND METAL ALLOYS—NAMELY, LEAD, SOLDER, AND BABBITT. AMERICAN SMELTING & REFINING COMPANY, New York, N. Y., and San Francisco, Calif.
Filed November 15, 1927. Serial No. 257,570. PUBLISHED APRIL 3, 1928. Class 14.

244,536. PASTES AND POWDERS FOR BEAUTIFYING AND PRESERVING THE TEETH, SKIN, AND HAIR, AND PERFUMERY. ERNEST DALTROFF, doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation, New York, N. Y., a Corporation of New York.
Filed November 14, 1927. Serial No. 257,531. PUBLISHED FEBRUARY 28, 1928. Class 6.

244,537. PASTES AND POWDERS FOR BEAUTIFYING AND PRESERVING THE TEETH, SKIN, AND HAIR, AND PERFUMERY. ERNEST DALTROFF, doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation, New York, N. Y., a Corporation of New York.
Filed November 14, 1927. Serial No. 257,530. PUBLISHED May 1, 1928. Class 6.

244,538. PASTES AND POWDERS FOR BEAUTIFYING AND PRESERVING THE TEETH, SKIN, AND HAIR, AND PERFUMERY. ERNEST DALTROFF, doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation, New York, N. Y., a Corporation of New York.
Filed November 14, 1927. Serial No. 257,529. PUBLISHED FEBRUARY 28, 1928. Class 6.

244,539. LEATHER DRESSING FOR POLISHING AND PRESERVING LEATHER. EDWARD PENTON, doing business as E. Penton and Son London, England.
Filed July 26, 1927. Serial No. 252,564. PUBLISHED NOVEMBER 8, 1927. Class 4.

244,540. TEXTILE THREADS. BELDING HEMINWAY COMPANY, New York, N. Y.
Filed July 26, 1927. Serial No. 252,544. PUBLISHED MAY 15, 1928. Class 43.

244,541. FREIGHT STEAMERS, TUGS, YACHTS, LAUNCHES, ROWBOATS AND CANOES, OARS, AND CANOE PADDLES. GEORGE BABARE, doing business as Babare Mfg. Co., Tacoma, Wash.
Filed May 14, 1927. Serial No. 248,984. PUBLISHED MAY 15, 1928. Class 19.

244,542. FRATERNITY BADGES, LAPEL BUTTONS; SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS, ALL OF PRECIOUS METAL. THE UNITED CHAPTERS OF PHI BETA KAPPA, New York, N. Y.
Filed April 19, 1927. Serial No. 247,717. PUBLISHED MAY 1, 1928. Class 28.

244,543. LADIES' AND CHILDREN'S HATS. PHIL DRESSNER & CO., INC., New York, N. Y.
Filed April 19, 1927. Serial No. 247,676. PUBLISHED JUNE 7, 1927. Class 39.

244,544. RACKS, CABINETS, AND FURNITURE DEVICES FOR USE IN CONNECTION WITH ACCOUNTING DEVICES, ACCOUNTING SYSTEMS, AND FOLLOW-UP AND DISPLAY SYSTEMS. JOHN WILLY, Chicago, Ill.
Filed April 15, 1927. Serial No. 247,510. PUBLISHED MAY 15, 1928. Class 32.

244,545. LEATHER SHOES. EDWARD J. RAMSEY, doing business as Ramsey's "They Cannot Rip", New York, N. Y.
Filed April 11, 1927. Serial No. 247,284. PUBLISHED DECEMBER 13, 1927. Class 39.

244,546. KEROSENE, FUEL OIL, NAPHTHA, AND GASOLINE. BLUE RIBBON OIL COMPANY, Chicago, Ill.
Filed April 4, 1927. Serial No. 246,882. PUBLISHED AUGUST 2, 1927. Class 15.

244,547. SALVE FOR FRESH CUTS, BOILS, AND WOUNDS. ALBERT G. GROBLEWSKI & CO., INCORPORATED, Plymouth, Pa.
Filed June 22, 1927. Serial No. 250,918. PUBLISHED JULY 26, 1927. Class 6.

244,548. WATCHES, WATCH MOVEMENTS, AND WATCHCASES. ILLINOIS WATCH CASE COMPANY, Elgin, Ill.
Filed June 8, 1927. Serial No. 250,176. PUBLISHED AUGUST 30, 1927. Class 27.

244,549. WATCHES, WATCH MOVEMENTS, AND WATCHCASES. AARON GOODMAN, doing business as Swan Watch Co., New York, N. Y.
Filed May 27, 1927. Serial No. 249,656. PUBLISHED MAY 8, 1928. Class 27.

244,550. CIGARS. ROSE OSTERWEIS, doing business as Lewis Osterweis & Sons, New Haven, Conn.
Filed November 11, 1927. Serial No. 257,433. PUBLISHED MAY 15, 1928. Class 17.

244,551. GAS BOILERS. THE BRYANT HEATER & MANUFACTURING COMPANY, Cleveland, Ohio.
Filed November 10, 1927. Serial No. 257,341. PUBLISHED MAY 15, 1928. Class 34.

244,552. LINEN PIECE GOODS. ROBERT MCBRATNEY & CO., INC., New York, N. Y.
Filed November 9, 1927. Serial No. 257,299. PUBLISHED MAY 15, 1928. Class 42.

244,553. CAR-WASHER PUMP. GOULDS PUMPS, INCORPORATED, Seneca Falls, N. Y.
Filed November 9, 1927. Serial No. 257,286. PUBLISHED MAY 15, 1928. Class 23.

244,554. CARBON STICKS FOR ARC LAMPS AND PROJECTING APPARATUS; CARBON RODS FOR ELECTRIC WELDING, ELECTRIC HEATING, AND OTHER PURPOSES; AND CARBON CYLINDERS, CARBON PLATES, AND CARBON RODS FOR CELLS AND BATTERIES. C. CONRADTY, Nuremberg, Germany.
Filed November 3, 1927. Serial No. 257,002. PUBLISHED MAY 8, 1928. Class 21.

244,555. AUTOMOBILE BODY HARDWARE—NAMELY, CHANNEL AND SHAPES AND DIE CASTINGS. TERNSTEDT MANUFACTURING COMPANY, Detroit, Mich.
Filed October 31, 1927. Serial No. 256,842. PUBLISHED MAY 1, 1928. Class 14.

244,556. AUTOMOBILE ELECTRIC DOME LIGHTS AND ELECTRIC CORNER LIGHTS. TERNSTEDT MANUFACTURING COMPANY, Detroit, Mich.
Filed October 31, 1927. Serial No. 256,841. PUBLISHED MAY 8, 1928. Class 21.

244,557. WHEAT FLOUR. THE LARABEE FLOUR MILLS COMPANY, Kansas City, Mo.
Filed October 17, 1927. Serial No. 256,197. PUBLISHED MAY 1, 1928. Class 46.

244,558. SPICES AND FLAVORING EXTRACTS FOR FOODS. SAM TESORO, doing business as Chicago Spice & Flavor Co., Chicago, Ill.
Filed October 13, 1927. Serial No. 256,062. PUBLISHED MAY 8, 1928. Class 46.

244,559. PERFUMES, EAU DE COLOGNE, TOILET WATERS, LOTIONS, FACE POWDERS, COMPACT POWDERS, SKIN CREAMS, ROUGE, AND LIP STICKS. SOCIETE PARISIENNE DES PRODUITS DE BEAUTE GANNA WALSKA, Paris, France.
Filed October 13, 1927. Serial No. 256,059. PUBLISHED MAY 8, 1928. Class 6.

244,560. BUILT-IN WOODWORK AND FIXTURES. CONCEALO FIXTURE COMPANY, INC., Oakland, Calif.
Filed October 12, 1927. Serial No. 255,968. PUBLISHED JANUARY 17, 1928. Class 32.

244,561. CHEMICAL BLEACHING AND WASHING FLUID. WASHING FLUID CHEMICAL CO., Pittsburgh, Pa.
Filed October 11, 1927. Serial No. 255,946. PUBLISHED DECEMBER 6, 1927. Class 6.

244,562. ACID-RESISTING ENAMEL WARE. KOHLER COMPANY, Kohler, Wis.
Filed October 8, 1927. Serial No. 255,810. PUBLISHED MAY 15, 1928. Class 13.

244,563. WICKET ATTACHMENTS FOR DOORS. WATSON POMEROY AULL, St. Louis, Mo.
Filed October 8, 1927. Serial No. 255,788. PUBLISHED MAY 15, 1928. Class 13.

244,564. JEWELRY FOR PERSONAL USE OR ADORNMENT, CONSISTING OF FINGER RINGS, EARRINGS, BRACELETS, PENDANTS, NECKLACES, WATCH BRACELETS, BAGS, BROOCHES, BUCKLES, BAR PINS, CUFF LINKS, LORGNETTES, STUDS, SCARFPINS, HATPINS, VEST BUTTONS, AND HANDY PINS, ALL MADE OF OR PLATED WITH PRECIOUS METAL. ORESTE PENNINO, doing business as Pennino Brothers, New York, N. Y.
Filed September 30, 1927. Serial No. 255,464. PUBLISHED MAY 1, 1928. Class 28.

244,565. PRESSURE-OPERATED ELECTRIC SWITCHES FOR TEMPERATURE REGULATION AND SAFETY CONTROL OF HEATING PLANTS. C. A. DUNHAM COMPANY, Chicago, Ill.
Filed September 28, 1927. Serial No. 255,417. PUBLISHED DECEMBER 27, 1927. Class 21.

244,566. HOSIERY; UNDERWEAR MADE OF SILK, COTTON, KNITTED, NETTED, AND TEXTILE FABRICS FOR MEN, WOMEN, AND CHILDREN; AND LADIES' WEARING APPAREL—NAMELY, HATS, DRESSES, CLOAKS, COATS, SHOES OF LEATHER, SILK, COTTON, CANVAS, AND WOOL, CAPS, CAPES, SUITS, SHAWLS, GLOVES MADE OF LEATHER, SILK, COTTON, CANVAS, AND WOOL, BELTS FOR OUTER WEAR, AND GARTERS. CARL D. NEWTON, doing business as Fox Company, San Antonio, Tex.
Filed September 29, 1927. Serial No. 255,394. PUBLISHED MARCH 20, 1928. Class 39.

244,567. GASOLINE. CHAMPLIN REFINING COMPANY, Enid, Okla.
Filed September 16, 1927. Serial No. 254,792. PUBLSIHED MAY 15, 1928. Class 32.

244,568. RADIOCABINETS IN AN EMPTY CONDITION. SUPERIOR CABINET CORPORATION, New York, N. Y.
Filed September 14, 1927. Serial No. 254,729. PUBLISHED MAY 15, 1928. Class 32.

244,569. SOAP AND SHAVING CREAM. DR. BRADY'S SOAP CO., INC., Monrovia, Calif.
Filed September 7, 1927. Serial No. 254,445. PUBLISHED NOVEMBER 22, 1927. Class 4.

244,570. HAND WASHING POWDER. QUEEN CITY SOAP CO., Allentown, Pa.
Filed August 30, 1927. Serial No. 254,150. PUBLISHED MAY 1, 1928. Class 4.

244,571. SAPONACEOUS SHAVING CREAM. THE PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed August 24, 1927. Serial No. 253,907. PUBLISHED APRIL 10, 1928. Class 4.

244,572. SAPONACEOUS SHAVING CREAM. THE PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed August 24, 1927. Serial No. 253,906. PUBLISHED APRIL 17, 1928. Class 4.

244,573. RADIO VACUUM TUBES. DIANA RADIO TUBE CORP., New York, N. Y.
Filed September 22, 1927. Serial No. 255,057. PUBLISHED MAY 8, 1928. Class 21.

244,574. CANNED SALMON. NEW ENGLAND FISH CO., Seattle, Wash.
Filed August 4, 1927. Serial No. 253,040. PUBLISHED APRIL 3, 1928. Class 46.

244,575. AUTOMOTIVE PARTS—NAMELY, STEERING-KNUCKLE BOLTS, SPRING-SHACKLE BOLTS, TIE-ROD YOKE BOLTS, AND PISTON-PIN SET SCREWS. KING MANUFACTURING CORPORATION, Buffalo, N. Y.
Filed March 30, 1927. Serial No. 246,613. PUBLISHED MAY 17, 1927. Class 13.

244,576. VERNIER DIALS AND ILLUMINATING DIALS, PARTICULARLY DIALS USED IN RADIO-RECEIVING APPARATUS. THE PILOT ELECTRIC MANUFACTURING COMPANY, INC., Brooklyn, N. Y.
Filed March 21, 1927. Serial No. 246,118. PUBLISHED MAY 8, 1928. Class 21.

244,577. REFRIGERATING TRUCKS. THE AUTO REFRIGERATING COMPANY, New York, N. Y.
Filed March 26, 1927. Serial No. 246,380. PUBLISHED MAY 15, 1928. Class 19.

244,578. BELTS IN THE NATURE OF GARMENT SUPPORTERS. COLONIAL LEATHER GOODS CO. INC., New York, N. Y.
Filed March 14, 1927. Serial No. 245,694. PUBLISHED MAY 10, 1927. Class 39.

244,579. LADIES' AND CHILDREN'S UNDERWEAR OF KNITTED AND TEXTILE FABRIC. PORTAGE UNDERWEAR MANUFACTURING CO., Portage, Wis.
Filed March 5, 1927. Serial No. 245,289. PUBLISHED OCTOBER 25, 1927. Class 39.

244,580. LIQUID VANISHING CREAM AND SHAMPOO. MIBALM COMPANY, Pittsburgh, Pa.
Filed March 2, 1927. Serial No. 245,102. PUBLISHED MAY 8, 1928. Class 6.

244,581. ANTISEPTIC AND GERMICIDE FOR IVY POISON, BARBER'S ITCH, SCABIES (ITCH), RINGWORM, CHIGGERS, NETTLE RASH, BITES, AND STINGS. WILLIAM C. MEYER, doing business as Wm. C. Meyer Drug Specialty Co., St. Louis, Mo.
Filed February 28, 1927. Serial No. 245,019. PUBLISHED MAY 8, 1928. Class 6.

244,582. BOW TIES. ADVANCE NECKWEAR CO., New York, N. Y.
Filed February 2, 1927. Serial No. 243,678. PUBLISHED APRIL 19, 1927. Class 39.

244,583. PRESERVATIVE AND FOOD FOR ALL LEATHER. JANET C. LEWIS, doing business as J. C. Lewis Co., New York, N. Y.
Filed January 5, 1927. Serial No. 242,379. PUBLISHED FEBRUARY 21, 1928. Class 4.

244,584. MOTOR FUEL OILS. LOOBOYLE REFINING COMPANY, Tulsa, Okla., and Joplin, Mo.
Filed December 20, 1926. Serial No. 241,783. PUBLISHED MAY 8, 1928. Class 15.

244,585. LADIES' HATS. QUAKER HAT CO., INC., New York, N. Y.
Filed November 20, 1926. Serial No. 240,864. PUBLISHED MAY 31, 1927. Class 39.

244,586. MEN'S, WOMEN'S, AND CHILDREN'S SHOES OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. THE KAHLER SHOE CO. INC., New York, N. Y.
Filed October 22, 1926. Serial No. 239,037. PUBLISHED DECEMBER 13, 1927. Class 39.

244,587. ILLUMINATING OIL AND GASOLINE. THE RED "C" OIL COMPANY, Baltimore, Md.
Filed July 22, 1926. Serial No. 234,922. PUBLISHED AUGUST 30, 1927. Class 15.

244,588. AUTOMOTIVE PARTS—NAMELY, STEERING-KNUCKLE BUSHINGS, TIE-ROD YOKE BUSHINGS, PISTON PINS, AND SPRING-SHACKLE BUSHINGS. KING QUALITY PRODUCTS INC., Buffalo, N. Y.
Filed June 21, 1926. Serial No. 233,558. PUBLISHED MAY 3, 1927. Class 23.

244,589. COUGH DROPS. PACIFIC COAST BISCUIT COMPANY, Seattle, Wash.
Filed July 31, 1926. Serial No. 235,416. PUBLISHED OCTOBER 4, 1927. Class 6.

244,590. CANDY BARS. THE CURTISS CANDY COMPANY, Chicago, Ill.
Filed April 2, 1928. Serial No. 264,150. PUBLISHED MAY 15, 1928. Class 46.

244,591. BACON. THE RATH PACKING COMPANY, Waterloo, Iowa.
Filed March 30, 1928. Serial No. 264,050. PUBLISHED MAY 15, 1928. Class 46.

244,592. CANDY. PEOPLES DRUG STORES, INC., Washington, D. C.
Filed March 29, 1928. Serial No. 263,969. PUBLISHED MAY 15, 1928. Class 46.

244,593. CANNED CHERRIES. GRAND TRAVERSE PACKING COMPANY, Traverse City, Mich.
Filed March 23, 1928. Serial No. 263,651. PUBLISHED MAY 15, 1928. Class 46.

244,594. DRIED GREEN SPLIT PEAS. H. C. KNOKE & COMPANY, Chicago, Ill.
Filed March 15, 1928. Serial No. 263,217. PUBLISHED MAY 15, 1928. Class 46.

244,595. SALTED ALMONDS. KARNAK CHEMICAL COMPANY, West Chester, Pa.
Filed March 15, 1928. Serial No. 263,214. PUBLISHED MAY 15, 1928. Class 46.

244,596. CEREAL BREAKFAST FOOD. AMERICAN STORES COMPANY, Philadelphia, Pa.
Filed March 15, 1928. Serial No. 263,192. PUBLISHED MAY 15, 1928. Class 46.

244,597. BAR CANDY AND CHOCOLATES. BUR-BEE CANDY CO., Walla Walla, Wash.
Filed March 10, 1928. Serial No. 262,951. PUBLISHED MAY 15, 1928. Class 46.

244,598. BAR CANDY AND CHOCOLATES. BUR-BEE CANDY CO., Walla Walla, Wash.
Filed March 10, 1928. Serial No. 262,950. PUBLISHED MAY 8, 1928. Class 46.

244,599. LARD SUBSTITUTE COMPOSED OF VEGETABLE FATS, OLEOSTEARINE, BEEF FAT, AND PURE LARD. VIRGINIA LARD AND PROVISION COMPANY, INCORPORATED, Norfolk and Portsmouth, Va.
Filed March 8, 1928. Serial No. 262,582. PUBLISHED MAY 15, 1928. Class 46.

244,600. STOCK FEEDS. NUTRENA FEED MILLS, INC., Kansas City, Kans.
Filed February 28, 1928. Serial No. 262,376. PUBLISHED MAY 15, 1928. Class 46.

244,601. CHEWING GUM. INTERNATIONAL GUM CORP., Long Island City, N. Y.
Filed February 27, 1928. Serial No. 262,307. PUBLISHED MAY 15, 1928. Class 46.

244,602. DRIED FRUIT. CAON & DEHN, INC., Seattle, Wash.
Filed February 27, 1928. Serial No. 262,294. PUBLISHED MAY 15, 1928. Class 46.

244,603. CANNED TOMATOES, CANNED SAUERKRAUT, CANNED BEANS, CANNED SQUAB, AND CANNED SQUAB BROTH. LOUIS JOHANN, doing business as Louis Johann Canning Company, Collinsville, Ill.
Filed February 6, 1928. Serial No. 261,258. PUBLISHED MAY 1, 1928. Class 46.

244,604. CANDIED AND SALTED NUTS AND NUTS IN THEIR NATURAL STATE. PETERSON NUT COMPANY, Cleveland, Ohio.
Filed December 15, 1927. Serial No. 258,956. PUBLISHED MAY 15, 1928. Class 46.

244,605. FRESH ROASTS OF BEEF, LAMB, PORK, ETC. GENERAL SEAFOODS CORPORATION, Gloucester, Mass., now by change of name General Foods Company.
Filed November 23, 1927. Serial No. 257,978. PUBLISHED MAY 15, 1928. Class 46.

244,606. CANNED SARDINES. ADDISON PACKING COMPANY, Southwest Harbor, Me.
Filed April 7, 1927. Serial No. 247,055. PUBLISHED MAY 15, 1928. Class 46.

244,607. FRESH CITRUS FRUITS, NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT. SIERRA MADRE-LAMANDA CITRUS ASSOCIATION, Lamanda Park, Calif.
Filed February 25, 1927. Serial No. 244,891. PUBLISHED FEBRUARY 21, 1928. Class 46.

244,608. CANNED FRUITS AND VEGETABLES. D. DI FIORE CANNING COMPANY, San Jose, Calif.
Filed January 24, 1927. Serial No. 243,255. PUBLISHED MAY 3, 1927. Class 46.

244,609. POULTRY FEED, STOCK FEED, AND DAIRY FEED. NORTHRUP, KING, & COMPANY, Minneapolis, Minn.
Filed December 4, 1926. Serial No. 240,992. PUBLISHED JANUARY 11, 1927. Class 46.

244,610. DRIED FRUITS. RALPHA HALE SELBY, Fairoaks, Calif.
Filed October 7, 1926. Serial No. 238,286. PUBLISHED MAY 15, 1928. Class 46.

244,611. FRESH APPLES. CONNELL BROS. COMPANY, Seattle, Wash.
Filed April 6, 1926. Serial No. 229,725. PUBLISHED SEPTEMBER 18, 1927. Class 46.

244,612. CERTAIN NAMED TOILET PREPARATIONS. WILFRED LABORATORIES, INC., New York, N. Y.
Filed May 22, 1926. Serial No. 232,109. PUBLISHED NOVEMBER 22, 1927. Class 6.

244,613. WHEELBARROWS. THE CLEVELAND WHEELBARROW & MANUFACTURING COMPANY, Cleveland and Garfield Heights, Cleveland, Ohio.
Filed February 20, 1926. Serial No. 227,567. PUBLISHED MAY 15, 1928. Class 19.

244,614. REMEDY FOR CONSTIPATION. BROWN MANUFACTURING CO., Le Roy, N. Y.
Filed January 13, 1926. Serial No. 225,868. PUBLISHED MARCH 2, 1926. Class 6.

244,615. LEAD WIRES FOR ELECTRICAL CONNECTIONS TO MERCURY-TUBE SWITCHES. THE FEDERAL GAUGE CO., Chicago, Ill.
Filed March 20, 1925. Serial No. 211,347. PUBLISHED JUNE 23, 1925. Class 21.

244,616. LEATHER AND COMBINATION LEATHER AND FABRIC SHOES. GIMBEL BROTHERS, New York, New York, N. Y.
Filed March 22, 1923. Serial No. 177,840. PUBLISHED MARCH 29, 1927. Class 39.

244,617. TABLE SALT, IODIZED SALT, AND BICARBONATE OF SODA. WESTERN GROCER COMPANY, Marshalltown, Iowa.
Filed January 28, 1928. Serial No. 260,864. PUBLISHED MAY 8, 1928. Class 6.

244,618. MANUFACTURED JEWELRY—NAMELY, FINGER RINGS, PINS, BROOCHES, AND BRACELETS. SYLVAN LEVY, New York, N. Y.
Filed January 27, 1928. Serial No. 260,739. PUBLISHED MAY 1, 1928. Class 28.

244,619. MANUFACTURED JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. LOUIS H. GURA, doing business as Piazza Bros., New York, N. Y.
Filed January 27, 1928. Serial No. 260,729. PUBLISHED MAY 1, 1928. Class 28.

244,620. FINGER RINGS, BAR PINS, SCARFPINS, BRACELETS, AND SAUTOIRS. J. L. KAUFMAN CORP., New York, N. Y.
Filed January 26, 1928. Serial No. 260,686. PUBLISHED MAY 1, 1928. Class 28.

244,621. LADIES' AND MISSES' HATS. CONSOLIDATED MILLINERY COMPANY, Chicago, Ill.
Filed May 21, 1927. Serial No. 249,337. PUBLISHED JULY 12, 1927. Class 39.

244,622. WOOL, COTTON, SILK, RAYON, AND LINEN FABRICS AND/OR COMBINATIONS THEREOF IN THE PIECE. FRED BUTTERFIELD & CO., INC., New York, N. Y.
Filed April 4, 1928. Serial No. 264,283. PUBLISHED MAY 15, 1928. Class 42.

244,623. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed April 4, 1928. Serial No. 264,273. PUBLISHED MAY 8, 1928. Class 42.

244,624. POWER ACTUATORS FOR OPERATING BRAKE MECHANISM, STEERING MECHANISM, CLUTCH MECHANISM OF AUTOMOTIVE LAND VEHICLES, BOATS, AND AIRCRAFT. BRAGG-KLIESRATH CORPORATION, New York and Long Island City, N. Y.
Filed February 2, 1928. Serial No. 261,039. PUBLISHED MAY 15, 1928. Class 23.

244,625. ELECTRICAL PHONOGRAPH REPRODUCERS AND PARTS THEREOF. THE CROSLEY RADIO CORPORATION, Cincinnati, Ohio.
Filed February 2, 1928. Serial No. 261,047. PUBLISHED MAY 8, 1928. Class 21.

244,626. GASOLINE, MOTOR OIL, AND OTHER LUBRICATING OILS AND GREASES. THE BARTLES-MAGUIRE, OIL COMPANY, Milwaukee, Wis.
Filed February 3, 1928. Serial No. 261,095. PUBLISHED MARCH 20, 1928. Class 15.

244,627. PORTABLE SANITARY PROOF BOXES, STORAGE BINS, COMPARTMENT RACKS, STORAGE AND SHIPPING BOXES, STORAGE RACKS FOR BREAD AND CAKES; COOLING RACKS FOR COOKIES, PIES, AND BUNS; AND PIE RACKS. GUSTAV GLASER CO., INC., New York, N. Y.
Filed February 3, 1928. Serial No. 261,109. PUBLISHED MAY 15, 1928. Class 2.

244,628. NONALCOHOLIC, MALTLESS BEVERAGES AND SYRUPS, EXTRACTS, AND CONCENTRATES FOR PREPARING THE SAME. SIERRA CLUB BEVERAGE CO. INC., Glendale, Calif.
Filed February 3, 1928. Serial No. 261,150. PUBLISHED MAY 15, 1928. Class 45.

244,629. POWDER PUFFS. MAURICE LEVY, New York, N. Y.
Filed February 4, 1928. Serial No. 261,198. PUBLISHED MAY 1, 1928. Class 29.

244,630. CRUDE PETROLEUM, FUEL OILS, ENGINE DISTILLATE, LUBRICATING OILS, KEROSENE, MOTOR SPIRITS, AND BENZINE. ASSOCIATED OIL COMPANY, San Francisco, Calif.
Filed February 6, 1928. Serial No. 261,231. PUBLISHED MAY 1, 1928. Class 15.

244,631. MALARIA, CHILLS, FEVER, AND COLDS MEDICINE, AND HEADACHE AND NEURALGIA MEDICINE. NINE-TEN REMEDY COMPANY, Memphis, Tenn.
Filed February 18, 1928. Serial No. 261,643. PUBLISHED MAY 8, 1928. Class 6.

244,632. STORAGE BATTERIES. RED-BAR BATTERY COMPANY, Dayton, Ohio.
Filed February 11, 1928. Serial No. 261,588. PUBLISHED MAY 1, 1928. Class 21.

244,633. JEWELRY—NAMELY, HAT ORNAMENTS MADE OF OR PLATED WITH PRECIOUS METAL, LAVALIERS, PENDANTS, BROOCHES, FINGER RINGS, AND BRACELETS. KAUFER BROS., New York, N. Y.
Filed February 11, 1928. Serial No. 261,574. PUBLISHED MAY 8, 1928. Class 28.

244,634. COLLAR HOLDERS FORMED WHOLLY OR IN PART OF PRECIOUS METAL. THE BAER & WILDE CO., Attleboro, Mass.
Filed February 11, 1928. Serial No. 261,546. PUBLISHED MAY 8, 1928. Class 28.

244,635. MUSICAL INSTRUMENTS IN THE NATURE OF A MOUTH ORGAN PLAYING A MUSIC ROLL, MUSIC ROLLS, AND PARTS THEREOF. THE ROLMONICA MUSIC CO. OF BALTIMORE, MARYLAND, Baltimore, Md.
Filed February 10, 1928. Serial No. 261,522. PUBLISHED MAY 8, 1928. Class 36.

244,636. HOSIERY FOR MEN, WOMEN, AND CHILDREN. MERIT HOSIERY COMPANY, Ozone Park, N. Y.
Filed February 10, 1928. Serial No. 261,518. PUBLISHED APRIL 3, 1928. Class 39.

244,637. PLATINUM MOUNTINGS FOR RINGS, BROOCHES, PLAQUES, BRACELETS, AND PENDANTS. JOSEPH FRACKMAN COMPANY, INC., New York, N. Y.
Filed February 10, 1928. Serial No. 261,502. PUBLISHED MAY 1, 1928. Class 28.

244,638. GOODS IN THE PIECE COMPOSED OF SILK, COTTON, LINEN, WOOL, AND RAYON AND/OR COMBINATIONS THEREOF. N. FLUGELMAN & CO., INC., New York, N. Y.
Filed February 10, 1928. Serial No. 261,499. PUBLISHED MARCH 20, 1928. Class 42.

244,639. TOOTH PASTES AND WASHES. DONALD HOWLAND SEYMOUR, Westmount, Quebec, Canada.
Filed February 9, 1928. Serial No. 261,461. PUBLISHED MAY 8, 1928. Class 6.

244,640. COSMETICS FOR THE SKIN IN THE FORM OF A LIQUID OR LOTION. MARY E. ROWDEN, doing business as Belcano Company, Cleveland Heights, Ohio.
Filed February 9, 1928. Serial No. 261,457. PUBLISHED MAY 1, 1928. Class 6.

244,641. COLD SOLDER. JOHN PHILIP HENRY BARLOW, Philadelphia, Pa.
Filed February 9, 1928. Serial No. 261,416. PUBLISHED MAY 1, 1928. Class 14.

244,642. FACE POWDER AND FACE CREAMS. COLGATE & COMPANY, Jersey City, N. J., and New York, N. Y.
Filed February 6, 1928. Serial No. 261,240. PUBLISHED MAY 8, 1928. Class 6.

244,643. GASOLINE. ASSOCIATED OIL COMPANY, San Francisco, Calif.
Filed February 6, 1928. Serial No. 261,232. PUBLISHED MAY 1, 1928. Class 15.

244,644. PAPER DISHES. CRESCENT PAPER DISH CO., INC., Brooklyn, N. Y.
Filed March 13, 1928. Serial No. 263,075. PUBLISHED MAY 15, 1928. Class 2.

244,645. PERFUMES AND TOILET WATERS. FLORENCE N. LEWIS, doing business as Elizabeth Arden, New York, N. Y.
Filed March 13, 1928. Serial No. 263,093. PUBLISHED MAY 8, 1928. Class 6.

244,646. CERTAIN NAMED CHINAWARE. ROBESON ROCHESTER CORPORATION, Rochester, N. Y.
Filed March 13, 1928. Serial No. 263,104. PUBLISHED MAY 15, 1928. Class 30.

244,647. GOGGLES AND PARTS THEREOF FOR THE PROTECTION OF THE EYE AGAINST DUST, GLARE, CINDERS, AND FLYING PARTICLES. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed March 17, 1928. Serial No. 263,299. PUBLISHED MAY 15, 1928. Class 26.

244,648. PREPARATION FOR THE TREATMENT OF COLDS, GRIPPE, CROUP, INFLUENZA, WHOOPING COUGH, BRONCHITIS, ASTHMA, CATARRH, PNEUMONIA, NEURALGIA, MUSCULAR PAINS, SPRAINS, BRUISES, INSECT BITES, CHILBLAINS, AND CHAPPED HANDS. STERNO CORPORATION, New York, N. Y.
Filed March 13, 1928. Serial No. 263,106. PUBLISHED MAY 1, 1928. Class 6.

244,649. OINTMENT FOR THE TREATMENT OF SKIN DISEASES. THE UPJOHN COMPANY, Kalamazoo, Mich.
Filed March 13, 1928. Serial No. 263,110. PUBLISHED MAY 1, 1928. Class 6.

244,650. GROUND CLAMPS, GROUND GRIDS, JUNCTION BOXES, BUS CONNECTORS, AND TERMINAL BLOCKS. ELECTRIC DEVICES COMPANY, New York, N. Y.
Filed March 14, 1928. Serial No. 263,129. PUBLISHED MAY 8, 1928. Class 21.

244,651. TALCUM POWDER, FACE POWDER, BATH SALTS, SACHET, TOOTH POWDER, ALMOND MEAL, TOILET WATER, HEADACHE COLOGNE, SMELLING SALTS, VANISHING CREAM, COLD CREAM, TOOTH PASTE, PERFUME, LIP ROUGE, BATH POWDER, TOILET CERATE, AND SKIN AND TISSUE CREAM. RICHARD HUDNUT, New York, N. Y.
Filed March 14, 1928. Serial No. 263,152. PUBLISHED MAY 8, 1928. Class 6.

244,652. MEDICINAL PREPARATION FOR THE RELIEF OF COUGHS, COLDS, CROUP, SORE THROAT, AND ALL INFLAMMATION OF THE AIR PASSAGES. NICHOLAS B. BARTZ, doing business as Fu-Ma-Cold Company, Grand Rapids, Mich.
Filed March 15, 1928. Serial No. 263,196. PUBLISHED MAY 8, 1928. Class 6.

244,653. METALLIC OXIDES AND SALTS, AND ESPECIALLY OXIDES AND SALTS OF VANADIUM, MOLYBDENUM, TUNGSTEN, CHROMIUM, TITANIUM, ZIRCONIUM, CADMIUM, URANIUM COBALT, NICKEL, AND MANGANESE. VANADIUM CORPORATION OF AMERICA, Bridgeville, Pa.
Filed March 15, 1928. Serial No. 263,237. PUBLISHED MAY 8, 1928. Class 6.

244,654. CERTAIN NAMED METAL ALLOYS. VANADIUM CORPORATION OF AMERICA, Bridgeville, Pa.
Filed March 15, 1928. Serial No. 263,238. PUBLISHED MAY 8, 1928. Class 14.

244,655. COFFEE. EMPRESA AGRICOLA MIRAFLORES, Rubio, Venezuela.
Filed March 16, 1928. Serial No. 263,261. PUBLISHED MAY 8, 1928. Class 46.

244,656. LAMINATED SHEET GLASS. PITTSBURGH SAFETY GLASS COMPANY, Pittsburgh, Pa.
Filed March 16, 1928. Serial No. 263,280. PUBLISHED MAY 15, 1928. Class 33.

244,657. WOMEN'S, MISSES', AND CHILDREN'S DRESS PATTERNS. L. BAMBERGER & COMPANY, Newark, N. J.
Filed March 17, 1928. Serial No. 263,302. PUBLISHED MAY 15, 1928. Class 26.

244,658. SHOVELS, SPADES, AND SCOOPS. AMES SHOVEL AND TOOL COMPANY, Boston, Mass.
Filed March 19, 1928. Serial No. 263,364. PUBLISHED MAY 15, 1928. Class 23.

244,659. METAL KITCHEN AND COOKING POTS, PANS, AND KETTLES, METAL SINKS, METAL LAVATORIES, AND METAL KITCHEN AND RESTAURANT STEAM TABLES. POLAR WARE COMPANY, Sheboygan, Wis.
Filed March 19, 1928. Serial No. 263,423. PUBLISHED MAY 15, 1928. Class 13.

244,660. CERTAIN NAMED FABRICS. PEPPERELL MANUFACTURING COMPANY, Boston, Mass.
Filed March 23, 1928. Serial No. 263,666. PUBLISHED MAY 1, 1928. Class 42.

244,661. GRAPE JUICE. UNITED GRAPE PRODUCTS, INC., Buffalo, N. Y.
Filed March 29, 1928. Serial No. 263,986. PUBLISHED MAY 15, 1928. Class 45.

244,662. FRUIT SYRUPS FOR MAKING SOFT DRINKS, NONALCOHOLIC COCKTAILS SUCH AS ARE USED FOR BEVERAGE PURPOSES, AND NONALCOHOLIC CORDIALS SUCH AS ARE USED FOR BEVERAGE PURPOSES. A. J. FLEUTI, doing business as A. J. Fleuti Company, Oakland, Calif.
Filed March 6, 1928. Serial No. 262,653. PUBLISHED MAY 15, 1928. Class 45.

244,663. FRUIT SYRUPS FOR MAKING SOFT DRINKS, NONALCOHOLIC COCKTAILS SUCH AS ARE USED FOR BEVERAGE PURPOSES, AND NONALCOHOLIC CORDIALS SUCH AS ARE USED FOR BEVERAGE PURPOSES. A. J. FLEUTI, doing business as A. J. Fleuti Company, Oakland, Calif.
Filed March 6, 1928. Serial No. 262,652. PUBLISHED MAY 15, 1928. Class 45.

244,664. SPARK PLUGS. MECHANICAL PRODUCTS CORPORATION, Boston, Mass.
Filed March 5, 1928. Serial No. 262,617. PUBLISHED MAY 1, 1928. Class 21.

244,665. ALTERNATING-CURRENT TRANSFORMERS. KARAS ELECTRIC COMPANY, Chicago, Ill.
Filed March 5, 1928. Serial No. 262,611. PUBLISHED MAY 8, 1928. Class 21.

244,666. INSULATED COPPER WIRE. CORNISH WIRE COMPANY, INCORPORATED, New York, N. Y.
Filed March 5, 1928. Serial No. 262,598. PUBLISHED MAY 1, 1928. Class 21.

244,667. POWDER PUFFS. LUCILLE BUHL, INC., New York, N. Y.
Filed March 3, 1928. Serial No. 262,571. PUBLISHED MAY 8, 1928. Class 29.

244,668. VITAMIN CONCENTRATES FOR USE IN MEDICINE AND PHARMACY. LEVER BROTHERS, LIMITED, Port Sunlight, England.
Filed March 1, 1928. Serial No. 262,471. PUBLISHED MAY 8, 1928. Class 6.

244,669. STEEL AND METAL COVERED STRINGS FOR BOW MUSICAL INSTRUMENTS (VIOLIN, VIOLA, CELLO) AND PLECTRUM MUSICAL INSTRUMENTS (MANDOLIN, TENOR BANJO, BANJO, GUITAR, HAWAIIAN GUITAR, PLECTRUM BANJO, BANJO UKULELE, UKULELE). CARL FISCHER, INC., New York, N. Y.
Filed February 29, 1928. Serial No. 262,397. PUBLISHED MAY 8, 1928. Class 36.

244,670. JEWELRY—NAMELY, RINGS, BRACELETS, PINS, PENDANTS, AND LOCKETS. CHALSON, OSBORNE CO., INC., New York, N. Y.
Filed February 29, 1928. Serial No. 262,393. PUBLISHED MAY 8, 1928. Class 28.

244,671. COAL, WOOD, AND GAS STOVES. BIRMINGHAM STOVE AND RANGE COMPANY, Birmingham, Ala.
Filed February 29, 1928. Serial No. 262,388. PUBLISHED MAY 15, 1928. Class 34.

244,672. MEDICINAL COMPOUND USED IN THE TREATMENT OF TUBERCULOSIS. LILLIE MABLE COLVIN, Louisville, Ky.
Filed March 13, 1928. Serial No. 263,073. PUBLISHED MAY 8, 1928. Class 6.

244,673. PNEUMATIC RUBBER TIRES AND TUBES. THE AMERICAN RUBBER & TIRE CO., doing business as The N. & S. Tire & Rubber Co., Akron, Ohio.
Filed March 31, 1928. Serial No. 264,069. PUBLISHED MAY 15, 1928. Class 35.

244,674. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. MORRIS WASLIKOFF, New York, N. Y.
Filed March 12, 1928. Serial No. 263,057. PUBLISHED MAY 8, 1928. Class 28.

244,675. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. S. ABRAMS & SONS, New York, N. Y.
Filed March 12, 1928. Serial No. 263,021. PUBLISHED MAY 8, 1928. Class 28.

244,676. MEDICATED PREPARATION FOR THE TREATMENT OF THE HAIR AND SCALP AND THE REMOVAL OF DANDRUFF. LAMBERT PHARMACAL COMPANY, Wilmington, Del.
Filed March 12, 1928. Serial No. 263,020. PUBLISHED MAY 1, 1928. Class 6.

244,677. LUBRICATING OILS. CHESAPEAKE OIL COMPANY, Baltimore, Md.
Filed March 10, 1928. Serial No. 262,953. PUBLISHED MAY 1, 1928. Class 15.

244,678. ELECTRIC-LIGHTING FIXTURES. ROYALITE STORES, INC., Detroit, Mich.
Filed March 10, 1928. Serial No. 262,935. PUBLISHED MAY 8, 1928. Class 21.

244,679. SILVER HOLLOW WARE. BERNARD RICE'S SONS, INC., New York N. Y.
Filed March 10, 1928. Serial No. 262,931. PUBLISHED MAY 8, 1928. Class 28.

244,680. MINERAL WATER. RADIUM MINERALS CORPORATION, New York, N. Y.
Filed March 10, 1928. Serial No. 262,928. PUBLISHED MAY 15, 1928. Class 45.

244,681. PLATINUM AND ALLOYS OF PLATINUM. BAKER & CO. INC., Newark, N. J.
Filed March 10, 1928. Serial No. 262,891. PUBLISHED MAY 1, 1928. Class 14.

244,682. PETROLEUM PRODUCTS—NAMELY, LUBRICATING OIL. PANHANDLE REFINING COMPANY, Wichita Falls, Tex.
Filed March 9, 1928. Serial No. 262,867. PUBLISHED MAY 1, 1928. Class 15.

244,683. ANTACID AND DIGESTANT FOR INDIGESTION, ACIDOSIS, GASTRIC DISTRESS, AND CONDITIONS IN WHICH THESE APPEAR AS A SYMPTOM. S. B. LEONARDI & CO. INC., sometimes trading under the name and style of The Papsomax Co., New Rochelle, N. Y.
Filed March 9, 1928. Serial No. 262,856. PUBLISHED MAY 8, 1928. Class 6.

244,684. PERFUMES, FACE POWDERS, TOILET WATERS, FACE CREAMS, MASSAGE CREAMS, ROUGE, LIP STICK, EYEBROW PENCILS, SKIN LOTIONS, SACHETS, BATH SALTS, LAVENDER WATER AND VERBENA WATER, TALCUM AND DUSTING POWDER, HAIR TONICS, SHAMPOOS, POMADES, AND BRILLIANTINE. DE MUSSET, INC., New York, N. Y.
Filed March 9, 1928. Serial No. 262,844. PUBLISHED MAY 8, 1928. Class 6.

244,685. FACE CREAM. AMORSKIN CORPORATION, New York, N. Y.
Filed March 3, 1928. Serial No. 262,544. PUBLISHED MAY 8, 1928. Class 6.

244,686. LUBRICATING OILS AND GREASES. THE BASSICK MANUFACTURING COMPANY, Chicago, Ill.
Filed March 2, 1928. Serial No. 262,503. PUBLISHED MAY 8, 1928. Class 15.

244,687. COFFEE. THOMAS A. PATTERSON, doing business as The Arabian Coffee Company, Washington, D. C.
Filed March 1, 1928. Serial No. 262,482. PUBLISHED MAY 8, 1928. Class 46.

244,688. WIRE-DRAWING DIES. OSKAR DIENER, Kleintschansch, near Breslau, Germany.
Filed February 28, 1928. Serial No. 262,350. PUBLISHED MAY 15, 1928. Class 23.

244,689. NONALCOHOLIC NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. NATHAN H. MARGOLIS, doing business as Onkor Company, Cleveland, Ohio.
Filed February 27, 1928. Serial No. 262,319. PUBLISHED MAY 15, 1928. Class 45.

244,690. NONALCOHOLIC, CEREAL, MALT BEVERAGES. EXCELSIOR BREWERY INC., New York, N. Y.
Filed February 27, 1928. Serial No. 262,298. PUBLISHED MAY 15, 1928. Class 48.

244,691. FRATERNITY BADGES, LAPEL BUTTONS; SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS, ALL OF PRECIOUS METAL. DELTA GAMMA FRATERNITY, Minneapolis, Minn.
Filed February 27, 1928. Serial No. 262,296. PUBLISHED MAY 1, 1928. Class 28.

244,692. PROPHYLACTIC USED AS A SAFEGUARD FOR VENERAL DISEASES. JOSEPH W. YORK and JACOB SUNSHINE, doing business as Mercrem Laboratories, New York, N. Y.
Filed February 25, 1928. Serial No. 262,280. PUBLISHED MAY 8, 1928. Class 6.

244,693. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. TRIFARI, KRUSSMAN & FISHEL, INC., New York, N. Y.
Filed February 25, 1928. Serial No. 262,271. PUBLISHED MAY 1, 1928. Class 28.

244,694. FINGER RINGS AND MOUNTINGS THEREFOR. BENJAMIN & EDWARD J. GROSS CO., INC., New York, N. Y.
Filed February 25, 1928. Serial No. 262,220. PUBLISHED MAY 8, 1928. Class 28.

244,695. COMPOUND USED AS A VULCANIZATION ACCELERATOR IN THE CURING OF RUBBER ARTICLES. THE RUBBER SERVICE LABORATORIES CO., Akron, Ohio.
Filed March 8, 1928. Serial No. 262,820. PUBLISHED MAY 1, 1928. Class 6.

244,696. MEDICINAL TABLETS FOR THE RELIEF OF PAIN, HEADACHE, NEURALGIA, RHEUMATISM, LUMBAGO, EARACHE, LA GRIPPE, AND PAIN IN GENERAL. THE HENEPH CORPORATION, Kingston, N. Y.
Filed March 8, 1928. Serial No. 262,803. PUBLISHED MAY 1, 1928. Class 6.

244,697. CHEMICAL PREPARATION FOR USE IN REMOVING WALL PAPER. EDWARD A. BENEDICT, doing business as Benco Chemical Products Co., Cleveland, Ohio.
Filed March 8, 1928. Serial No. 262,790. PUBLISHED MAY 8, 1928. Class 6.

244,698. CERAMIC MATERIALS USED IN THE MANUFACTURE OF ENAMELS AND GLAZES. THE TITANIUM ALLOY MANUFACTURING COMPANY, Niagara Falls, N. Y.
Filed March 7, 1928. Serial No. 262,780. PUBLISHED MAY 1, 1928. Class 6.

244,699. PETROLEUM JELLY. THE GEO. H. NOWLAND COMPANY, Cincinnati, Ohio.
Filed March 7, 1928. Serial No. 262,762. PUBLISHED MAY 8, 1928. Class 6.

244,700. GASOLINE. THE BARTLES-MAGUIRE OIL COMPANY, Milwaukee, Wis.
Filed March 7, 1928. Serial No. 262,691. PUBLISHED MAY 1, 1928. Class 15.

244,701. BLEACHING WATER. ANTON E. JACOBSON, doing business as Gilt Edge Packing Co., San Francisco, Calif.
Filed March 6, 1928. Serial No. 262,662. PUBLISHED MAY 8, 1928. Class 6.

244,702. LUBRICATING OILS AND LUBRICATING GREASES. WALLKILL OIL COMPANY, Middletown, N. Y.
Filed February 24, 1928. Serial No. 262,191. PUBLISHED MAY 1, 1928. Class 15.

244,703. PILLOWS. THE P. R. MITCHELL CO., New York, N. Y.
Filed February 24, 1928. Serial No. 262,173. PUBLISHED MAY 15, 1928. Class 32.

244,704. FINGER RINGS. BAUMAN-MASSA JEWELRY CO., St. Louis, Mo.
Filed February 23, 1928. Serial No. 262,047. PUBLISHED MAY 1, 1928. Class 28.

244,705. OINTMENT PREPARATION FOR INFLAMMATION OF THE FEMALE GENITAL TRACTS, AND PARTICULARLY FOR GONORRHEAL INFECTIONS. MEDI-JELL PRODUCTS, INC., New York and Brooklyn, N. Y.
Filed February 21, 1928. Serial No. 262,038. PUBLISHED MAY 1, 1928. Class 6.

244,706. OINTMENT PREPARATION FOR INFLAMMATION OF THE FEMALE GENITAL TRACTS, AND PARTICULARLY FOR GONORRHEAL INFECTIONS. MEDI-JELL PRODUCTS, INC., New York and Brooklyn, N. Y.
Filed February 21, 1928. Serial No. 262,037. PUBLISHED MAY 1, 1928. Class 6.

244,707. PLAIN AND INLAID LINOLEUM AND CORK CARPET. CONGOLEUM-NAIRN, INC., Philadelphia, Pa.
Filed February 21, 1928. Serial No. 262,019. PUBLISHED MAY 15, 1928. Class 20.

244,708. FACE CREAMS, FACE POWDERS, TALCUM POWDERS, HAIR POMADES; SALVES DESIGNED TO BE USED IN THE TREATMENT OF TETTER, DANDRUFF, AND ECZEMA; GENERAL HERB TONICS, FOOT POWDERS, AND TOOTH-CLEANSING PASTES. MON M. DAS, doing business as Hindu Products Company, Chicago, Ill.
Filed February 20, 1928. Serial No. 261,947. PUBLISHED MAY 8, 1928. Class 6.

244,709. SMOKERS' METAL ASH TRAYS. J. E. MERCOTT COMPANY, Newark, N. J.
Filed February 18, 1928. Serial No. 261,902. PUBLISHED MAY 15, 1928. Class 8.

244,710. TIRES AND PARTS, RUBBER HOSE AND TUBING, ETC. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed February 18, 1928. Serial No. 261,875. PUBLISHED MAY 15, 1928. Class 85.

244,711. LUBRICATING OILS. CALIFORNIA NORTHERN PETROLEUM CO., Oakland, Calif.
Filed February 18, 1928. Serial No. 261,859. PUBLISHED MAY 1, 1928. Class 15.

244,712. MEDICINE FOR THE TREATMENT OF ARTHRITIS. SMITH, KLINE & FRENCH COMPANY, Philadelphia, Pa.
Filed February 13, 1928. Serial No. 261,656. PUBLISHED MAY 8, 1928. Class 6.

244,713. METAL-WORKING AND WOODWORKING MACHINERY—NAMELY, LATHES, DRILL PRESSES, MILLING MACHINES, SHAPERS, POWER PRESSES, METAL-CUTTING SAWS, BROACHING MACHINERY, SPEED LATHES, AND JOINTERS. THE SEIFREAT-ELSTAD MACHINERY COMPANY, Dayton, Ohio.
Filed February 17, 1928. Serial No. 261,841. PUBLISHED MAY 15, 1928. Class 23.

244,714. ELASTIC-WEBBING TEXTILE PIECE GOODS. EVERLASTIK, INC., Chelsea, Mass.
Filed February 17, 1928. Serial No. 261,805. PUBLISHED MAY 8, 1928. Class 42.

244,715. METAL (MALLEABLE IRON) GAS-METER FITTING IN THE NATURE OF A SUPPORTING BRACKET AND COUPLING MEMBER. ALBERT BENFIELD, New York, N. Y.
Filed February 17, 1928. Serial No. 261,787. PUBLISHED MAY 15, 1928. Class 18.

244,716. TWINE, ROPE, AND CORD. OAKDALE COTTON MILLS, Jamestown, N. C.
Filed February 16, 1928. Serial No. 261,764. PUBLISHED MAY 15, 1928. Class 7.

244,717. BAR PINS, BRACELETS, EMBLEMS MADE OF OR PLATED WITH PRECIOUS METAL, FINGER RINGS, BROOCHES, SCARFPINS, PENDANTS, NECKLACE SNAPS, CUFF LINKS, SHIRT STUDS MADE OF OR PLATED WITH PRECIOUS METAL, AND WATCH CHAINS, NECKLACE CHAINS, BRACELET CHAINS MADE OF OR PLATED WITH PRECIOUS METAL. B. F. HIRSCH, INC., New York, N. Y.
Filed February 16, 1928. Serial No. 261,753. PUBLISHED MAY 8, 1928. Class 28.

244,718. AXLE LATHES, ENGINE LATHES, CAR-WHEEL BORES, ETC. CONSOLIDATED MACHINE TOOL CORPORATION OF AMERICA, Rochester, N. Y.
Filed February 15, 1928. Serial No. 261,698. PUBLISHED MAY 15, 1928. Class 23.

244,719. FINGER RINGS, BROOCHES, BRACELETS, NECK CHAINS, AND WATCH CHAINS. S. JOLLOFSKY & SONS, INC., New York, N. Y.
Filed February 14, 1928. Serial No. 261,676. PUBLISHED MAY 8, 1928. Class 28.

244,720. MEDICINAL PREPARATION FOR THE TREATMENT OF TORPID LIVER, JAUNDICE, BILIOUS FEVERS, AND ALL DERANGEMENTS WHICH DEPEND ON CONGESTION OF THE PORTAL CIRCLE. BILBIN CAPS CO., Bristol, Tenn.
Filed February 14, 1928. Serial No. 261,664. PUBLISHED MAY 1, 1928. Class 6.

244,721. THROAT TABLETS. D. WEEKS & COMPANY, doing business as D. C. Leo & Co., Des Moines, Iowa.
Filed February 13, 1928. Serial No. 261,662. PUBLISHED MAY 8, 1928. Class 6.

244,722. ELECTRICALLY-OPERATED MASSAGE DEVICES. ARDEN LUSCH, doing business as R. & L. Mfg. Co., Los Angeles, Calif.
Filed February 27, 1928. Serial No. 262,316. PUBLISHED MAY 8, 1928. Class 44.

244,723. GLANDULAR EXTRACTS USED IN THE TREATMENT OF ARTHRITIS, GLANDULAR INSUFFICIENCY, ANÆMIA, MENTAL OR PHYSICAL WEAKNESS, NEURASTHENIA, NEURALGIA, AND AFFECTIONS OF THE CARDIAC CIRCULATORY SYSTEM. LABORATORIES "STELLA", Paris, France.
Filed February 27, 1928. Serial No. 262,313. PUBLISHED MAY 15, 1928. Class 6.

244,724. HEALTH BISCUITS. RAFLAX PRODUCTS COMPANY, Berkeley, Calif.
Filed February 25, 1928. Serial No. 262,258. PUBLISHED MAY 8, 1928. Class 46.

244,725. GOLF CLUBS. ANDREW A. ROBERTSON, Chicago, Ill.
Filed February 24, 1928. Serial No. 262,180. PUBLISHED MAY 8, 1928. Class 22.

244,726. GOLF CLUBS AND GOLF BALLS. WESTERN AUTO SUPPLY AGENCY OF LOS ANGELES, Los Angeles, Calif.
Filed February 23, 1928. Serial No. 262,138. PUBLISHED MAY 8, 1928. Class 22.

244,727. THERAPEUTIC LAMPS. PAUL E. JOHNSON, INCORPORATED, Chicago, Ill.
Filed February 23, 1928. Serial No. 262,088. PUBLISHED MAY 15, 1928. Class 44.

244,728. GOLF-TEE PACKAGES. THE BOOK OF GOLF TEES COMPANY, Detroit, Mich.
Filed February 20, 1928. Serial No. 261,936. PUBLISHED MAY 8, 1928. Class 22.

244,729. COFFEE. G. W. & B. B. BICKERS, Clarksburg, W. Va.
Filed February 20, 1928. Serial No. 261,934. PUBLISHED MAY 22, 1928. Class 46.

244,730. HOSPITAL RUBBER SHEETING AND SANITARY RUBBER SHEETING. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed February 18, 1928. Serial No. 261,927. PUBLISHED MAY 8, 1928. Class 44.

244,731. CHEMICALS—NAMELY, SODIUM SULPHIDE, CAUSTIC ALKALIES, AND SODIUM BISULPHATE. RHENANIA-KUNHEIM VEREIN CHEMISCHER FABRIKEN A.-G., Berlin, Germany.
Filed February 16, 1928. Serial No. 261,768. PUBLISHED MAY 22, 1928. Class 6.

244,732. MOUTH WASH AND GARGLE. PYRO-CODA LABORATORIES, INC., doing business as Pyro-Coda Laboratories, New York, N. Y.
Filed February 16, 1928. Serial No. 261,766. PUBLISHED MAY 22, 1928. Class 6.

244,733. CLEANER—NAMELY, A PRODUCT IN THE NATURE OF AN AUTOMOBILE AND FURNITURE POLISH FOR HIGHLY-POLISHED SURFACES, ESPECIALLY FOR FURNITURE AND WOODWORK, AUTOMOBILES, VICTROLAS, PIANOS, AND THE LIKE. EDWARD L. VANDERHOOF, doing business as V & V Mfg. Products Co., Morgan (Bay View Manor), N. J.
Filed February 10, 1928. Serial No. 261,538. PUBLISHED MAY 8, 1928. Class 16.

244,734. BREAD. ISIDORE WISOTSKY, Brooklyn, N. Y.
Filed February 7, 1928. Serial No. 261,332. PUBLISHED MAY 8, 1928. Class 46.

244,735. PIANO AND STRINGED-MUSICAL-INSTRUMENT WIRES. VEREINIGTE STAHLWERKE AKTIENGESELLSCHAFT, Dusseldorf, Germany.
Filed February 6, 1928. Serial No. 261,294. PUBLISHED MAY 15, 1928. Class 36.

244,736. MASSAGING VIBRATOR. THOMAS A. BUCK, doing business as Roto-Vitalizer, Chicago, Ill.
Filed February 6, 1928. Serial No. 261,236. PUBLISHED MAY 8, 1928. Class 44.

244,737. SYRINGES FOR PERSONAL USE MADE OF INDIA RUBBER. HANOVER RUBBER CO. "EXCELSIOR" INC., New York, N. Y.
Filed February 1, 1928. Serial No. 261,001. PUBLISHED MAY 15, 1928. Class 44.

244,738. FRESH APPLES. ASSOCIATED GROWERS OF BRITISH COLUMBIA, LIMITED, Vernon, British Columbia, Canada.
Filed March 14, 1928. Serial No. 263,115. PUBLISHED MAY 22, 1928. Class 46.

244,739. SAFETY-RAZOR BLADES. IRA J. SHAPIRO, New York, N. Y.
Filed March 13, 1928. Serial No. 263,105. PUBLISHED MAY 22, 1928. Class 23.

244,740. FISHHOOKS AND FISHING RODS OR POLES. LOUIS C. MATHEY, Nashville, Tenn.
Filed March 13, 1928. Serial No. 263,096. PUBLISHED MAY 8, 1928. Class 22.

244,741. READY-MIXED PAINTS FOR OUTSIDE WORK. ELCO PAINT PRODUCTS, INC., New York, N. Y.
Filed March 13, 1928. Serial No. 263,076. PUBLISHED MAY 8, 1928. Class 16.

244,742. DRY, PASTE, AND READY-MIXED PAINTS, PAINT ENAMELS, AND VARNISHES. WEYMAC MANUFACTURING CORP., New York, N. Y.
Filed March 12, 1928. Serial No. 263,060. PUBLISHED MAY 8, 1928. Class 16.

244,743. LIP STICKS, ROUGE, SHAMPOO, AND FACE POWDER. REGINA RESNEK, New York, N. Y.
Filed March 12, 1928. Serial No. 263,050. PUBLISHED MAY 22, 1928. Class 6.

244,744. WHITE BREAD, RYE BREAD, PUMPERNICKEL, TWIST BREAD, WHOLE-WHEAT BREAD, WHOLE-WHEAT RYE BREAD, ROLLS, CAKES, PASTRY, AND PIES. JENNINGS BAKERY, New York, N. Y.
Filed March 12, 1928. Serial No. 263,048. PUBLISHED MAY 8, 1928. Class 46.

244,745. PRIMER SURFACER FOR USE ON PLASTER, CONCRETE, WOODWORK, CANVAS, AND WALL BOARD. ELCO PAINT PRODUCTS, INC., New York, N. Y.
Filed March 10, 1928. Serial No. 262,956. PUBLISHED MAY 15, 1928. Class 16.

244,746. NONALCOHOLIC AND NONCEREAL BEVERAGES IN THE NATURE OF SOFT DRINKS. CHARLES CALANDRA, doing business as Calandra Brothers, Buffalo, N. Y.
Filed March 8, 1928. Serial No. 262,796. PUBLISHED MAY 22, 1928. Class 45.

244,747. MINERAL-WELL SALTS AND PREPARATIONS FOR MEDICINAL USE IN THE TREATMENT OF CONSTIPATION, RHEUMATISM, ASTHMA, UNDERWEIGHT, NERVOUSNESS, AND STOMATIC TROUBLE. GERMAN MINERAL SALT IMPORT COMPANY, Cleveland, Ohio.
Filed March 7, 1928. Serial No. 262,709. PUBLISHED MAY 22, 1928. Class 6.

244,748. FRESH GRAPEFRUIT IN ITS NATURAL STATE. EMIL STEINER, Brawley, Calif.
Filed March 6, 1928. Serial No. 262,683. PUBLISHED MAY 22, 1928. Class 46.

244,749. CANDY. THE ROBT. F. MACKENZIE CO., Cleveland, Ohio.
Filed March 6, 1928. Serial No. 262,665. PUBLISHED MAY 22, 1928. Class 46.

244,750. FRESH GRAPES. JOHN L. SEIBEL, Lodi, Calif.
Filed March 5, 1928. Serial No. 262,628. PUBLISHED MAY 22, 1928. Class 46.

244,751. ADHESIVE CEMENTS FOR RUBBER TILE, LINOLEUM, AND SIMILAR USES. WALTER MARVIN, doing business as Templar Oil Products Co., Brooklyn, N. Y.
Filed March 3, 1928. Serial No. 262,572. PUBLISHED MAY 8, 1928. Class 5.

244,752. DOLLS. E. I. HORSMAN CO. INC., New York, N. Y.
Filed March 2, 1928. Serial No. 262,517. PUBLISHED MAY 8, 1928. Class 22.

244,753. LUBRICATING OILS AND GREASES. MOTOROYAL OIL CO., Denver, Colo.
Filed February 28, 1928. Serial No. 262,372. PUBLISHED MAY 15, 1928. Class 15.

244,754. FINGER RINGS, BAR PINS, SCARFPINS, BRACELETS, AND SAUTOIRS. GILBERT & CO. INC., New York, N. Y.
Filed January 26, 1928. Serial No. 260,681. PUBLISHED MAY 1, 1928. Class 28.

244,755. PNEUMATIC AND CUSHION TIRES AND TUBES. HOOD RUBBER COMPANY, Watertown, Mass.
Filed February 11, 1928. Serial No. 261,571. PUBLISHED MAY 22, 1928. Class 35.

244,756. COLD-WATER PAINT, STUCCO PAINT, WALL COLORS, KALSOMINE, AND PAINTER'S WALL SIZE. STERLING CHEMICAL CO., INC., Los Angeles, Calif.
Filed February 24, 1928. Serial No. 262,188. PUBLISHED MAY 15, 1928. Class 16.

244,757. COLD-WATER PAINT, STUCCO PAINT, WALL COLORS, AND PAINTER'S WALL SIZE. WEST COAST KALSOMINE CO., Berkeley, Calif.
Filed February 24, 1928. Serial No. 262,193. PUBLISHED MAY 15, 1928. Class 16.

244,758. REFRIGERATORS OF ALL TYPES, INCLUDING REFRIGERATOR SHOW CASES, BUTCHER, HOTEL, RESTRAURANT, AND FLORIST REFRIGERATORS, REFRIGERATOR COUNTERS, REFRIGERATOR CASES, REFRIGERATOR DISPLAY CASES, REFRIGERATOR FISH CHESTS, COOLERS, ICE CHESTS, MILK AND CREAM CABINETS, REFRIGERATOR DRAIN TRAPS, REFRIGERATOR FIXTURES, REFRIGERATOR UNITS AND PARTS THEREOF, REFRIGERATING PLANTS, REFRIGERATING MACHINERY AND APPARATUS, REFRIGERATING SYSTEMS, AND PARTS THEREOF. REUBEN E. OTTENHEIMER, doing business as The Reol Refrigerator Co., Baltimore, Md.
Filed February 25, 1928. Serial No. 262,254. PUBLISHED MAY 15, 1928. Class 31.

244,759. DOLLS. LEE M. BYRD, Oakland, Calif.
Filed February 29, 1928. Serial No. 262,391. PUBLISHED MAY 15, 1928. Class 22.

244,760. DRY, PASTE, AND READY-MIXED PAINTS, VARNISHES, AND ENAMELS. MIDWEST VARNISH COMPANY, Chicago, Ill.
Filed March 20, 1928. Serial No. 263,505. PUBLISHED MAY 15, 1928. Class 16.

244,761. READY-MIXED PAINTS. BLUINE MANUFACTURING COMPANY, Concord Junction, Mass.
Filed March 2, 1928. Serial No. 262,504. PUBLISHED MAY 15, 1928. Class 16.

244,762. PARTS FOR RADIO SETS, AS FOLLOWS: PANELS, DIALS, SOCKETS, PLUGS, KNOBS, AND INSULATING PAPER. DR. HEINR. TRAUN & SÖHNE, VORMALS HARBURGER GUMMI-KAMM-COMPAGNIE, Hamburg, Germany.
Filed March 10, 1928. Serial No. 262,985. PUBLISHED MAY 15, 1928. Class 21.

244,763. GOLF BALLS. ALLIED GOLF COMPANY, Chicago, Ill.
Filed March 28, 1928. Serial No. 263,848. PUBLISHED MAY 15, 1928. Class 22.

244,764. OINTMENT AND SALVE USED FOR PILES, ECZEMA, BURNS, POISON IVY, RUBBER POISONING, AND ALL SKIN DISEASES. HARRY HAGUE, Akron, Ohio.
Filed March 27, 1928. Serial No. 263,821. PUBLISHED MAY 15, 1928. Class 6.

244,765. CIGARS. LEWIS OSTERWEIS & SONS, New Haven, Conn.
Filed March 26, 1928. Serial No. 263,785. PUBLISHED MAY 22, 1928. Class 17.

244,766. WHEAT FLOUR. INTERNATIONAL MILLING COMPANY, doing business as Mystic Mills, Minneapolis, Minn., and Leeds, Iowa.
Filed March 26, 1928. Serial No. 263,763. PUBLISHED MAY 8, 1928. Class 46.

244,767. BUNS. TWENTIETH CENTURY BAKERY, INC., Haverhill, Mass.
Filed March 24, 1928. Serial No. 263,737. PUBLISHED MAY 8, 1928. Class 46.

244,768. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. JOHN KOHLMANN, Beaver Falls, Pa.
Filed March 24, 1928. Serial No. 263,708. PUBLISHED MAY 22, 1928. Class 45.

244,769. PNEUMATIC RUBBER TIRES AND TUBES. THE AMERICAN RUBBER & TIRE CO., doing business as P. T. C. Tire Co., Akron, Ohio.
Filed March 24, 1928. Serial No. 263,680. PUBLISHED MAY 22, 1928. Class 35.

244,770. SCREEN CABINETS. ETTA G. ZIZELMAN, New York, N. Y.
Filed March 23, 1928. Serial No. 263,675. PUBLISHED MAY 22, 1928. Class 32.

244,771. AXES, HATCHETS, ADZES, BUSH HOOKS, MACHETES, SAWS, CHISELS, KNIVES, SWORDS, SICKLES, MATTOCKS; PICKAXES, SHOVELS, SPADES, CROWBARS, PICKS, HOES, MILL PICKS, SLEDGES, HAMMERS, WEDGES, WRENCHES, AUGERS, BORING BITS, EARTH AND ROCK DRILLS, CAVADORES, BARRETONES, TARPALAS, PALAS, TERCADOS, JINCOLAS, BARRAS, LANZAS, LANCITAS, ARPONES, CLEAVERS, BAYONETS, AND PLOWS AND PARTS THEREOF. THE COLLINS COMPANY, Collinsville, Conn.
Filed March 23, 1928. Serial No. 263,641. PUBLISHED MAY 22, 1928. Class 23.

244,772. COMBINED BOTTLE OPENER AND POURING SPOUT. THE OPNSEEL COMPANY, Portsmouth, Ohio.
Filed March 22, 1928. Serial No. 263,615. PUBLISHED MAY 22, 1928. Class 23.

244,773. STUFFED TOY ANIMALS. MARGARETE STEIFF, INC., New York, N. Y.
Filed March 22, 1928. Serial No. 263,613. PUBLISHED MAY 15, 1928. Class 22.

244,774. CERTAIN NAMED TOYS. GEO. BORGFELDT & Co., New York, N. Y.
Filed March 22, 1928. Serial No. 263,582. PUBLISHED MAY 15, 1928. Class 22.

244,775. HORSE FEED, DAIRY FEED, SCRATCH FEED, LAYING MASH, CHICK STARTER, AND MILL FEED. PINNACLE MILLS, Morristown, Tenn.
Filed March 21, 1928. Serial No. 263,560. PUBLISHED MAY 8, 1928. Class 46.

244,776. LACQUER FLOOR COVERING. R. N. NASON & Co., San Francisco, Calif.
Filed March 21, 1928. Serial No. 263,557. PUBLISHED MAY 15, 1928. Class 16.

244,777. GINGER ALE. BENJAMIN WILLIAM KAUFFMAN, Camden, N. J.
Filed March 20, 1928. Serial No. 263,530. PUBLISHED MAY 22, 1928. Class 45.

244,778. GOLF BALLS. WILSON-WESTERN SPORTING GOODS COMPANY, Chicago, Ill.
Filed March 19, 1928. Serial No. 263,451. PUBLISHED MAY 8, 1928. Class 22.

244,779. PREPARATION FOR FILLING CIGAR AND CIGARETTE LIGHTERS. SMITH OIL & REFINING COMPANY, Rockford, Ill.
Filed March 19, 1928. Serial No. 263,440. PUBLISHED MAY 15, 1928. Class 6.

244,780. GOLF CLUBS AND PARTS THEREOF. PYRATONE PRODUCTS CORPORATION, Chicago, Ill.
Filed March 19, 1928. Serial No. 263,424. PUBLISHED MAY 15, 1928. Class 22.

244,781. WHEAT FLOUR. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn.
Filed March 19, 1928. Serial No. 263,422. PUBLISHED MAY 8, 1928. Class 46.

244,782. WATER-TREATING, WATER-SOFTENING, AND WATER-CLARIFYING COMPOUNDS. ALUMINATE SALES CORPORATION, Chicago, Ill.
Filed March 16, 1928. Serial No. 263,253. PUBLISHED MAY 15, 1928. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

244,783. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) NEW YORK COAL COMPANY, Columbus, Ohio. Filed May 26, 1928. Serial No. 267,073.

MANHATTAN

For Coal.
Claims use since 1907.

244,784. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) M. DONNENFELD & SON, INCORPORATED, New York, N. Y. Filed May 26, 1928. Serial No. 267,039.

ALL HEAT COAL

For Coal.
Claims use since January, 1927.

244,785. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) DARWIN & MILNER, INC., Cleveland, Ohio. Filed June 14, 1928. Serial No. 268,030.

DARWIN

For Razor Blades.
Claims use since July, 1913.

244,786. (CLASS 10. FERTILIZERS.) M. P. HUBBARD & COMPANY, INC., Baltimore and Curtis Bay, Md., and Norfolk, Va. Filed May 17, 1928. Serial No. 266,540.

ORANGE WRAPPER FOR TOBACCO

For Fertilizers.
Claims use since April, 1927.

244,787. (CLASS 10. FERTILIZERS.) HOME FERTILIZER COMPANY, INC., Baltimore and Curtis Bay, Md., and Norfolk, Va. Filed May 17, 1928. Serial No. 266,538.

LEMON WRAPPER FOR TOBACCO

For Fertilizers.
Claims use since April, 1927.

244,788. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. B. AMYX, doing business as Pitt Chemical Co., Abilene, Tex. Filed May 10, 1928. Serial No. 266,181.

Pitt's GOLD RELIEF

For Preparation for Use in Treating Colds.
Claims use since July, 1925.

244,789. (CLASS 45. BEVERAGES, NONALCOHOLIC.) BAILIS BROS., Mount Vernon, N. Y. Filed May 2, 1928. Serial No. 265,771.

BUT HOW GOOD

NOT HOW CHEAP

For Distilled Water, Table Water, and Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since Jan. 1, 1927.

244,790. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GEO. E. PELLENS CO., Cincinnati, Ohio. Filed Apr. 23, 1928. Serial No. 265,290.

PELLENS
Daily Drink

For Coffee.
Claims use since January, 1927.

244,791. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) JULIUS CHARLESTEIN, doing business as The Dental Agency, Philadelhpia, Pa. Filed Apr. 17, 1928. Serial No. 264,969.

Come-A-Part

For Dental Hand Pieces.
Claims use since June 2, 1927.

244,792. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed Apr. 9, 1928. Serial No. 264,558.

CARPENTER
STAINLESS STEEL No. 2

For Steel in Bars, Billets, and Shapes.
Claims use since Apr. 15, 1927.

244,793. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed Apr. 9, 1928. Serial No. 264,562.

CARPENTER
STAINLESS STEEL

For Steel in Bars, Billets, and Shapes.
Claims use since about 1920.

244,794. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed Apr. 9, 1928. Serial No. 264,559.

CARPENTER
STAINLESS STEEL No. 3

For Steel in Bars, Billets, and Shapes.
Claims use since Apr. 15, 1927.

244,795. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading Pa. Filed Apr. 9, 1928. Serial No. 264,557.

CARPENTER
STAINLESS STEEL No. 1

For Steel in Bars, Billets, and Shapes.
Claims use since Apr. 15, 1927.

244,796. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) STANDARD GAGE COMPANY, INC., Poughkeepsie, N. Y. Filed Mar. 22, 1928. Serial No. 263,624.

"STANDARD"

For Dial Indicating Gages, Snap Gages, Plug Gages, Thread Gages, Limit Gages, Micrometers.
Claims use since Oct. 1, 1925.

244,797. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA COMMERCIAL COMPANY, San Francisco, Calif. Filed Mar. 17, 1928. Serial No. 263,307.

WINEPAC

For Table Syrups Flavored with Wine, Canned Fruits, and Preserved Fruits, Jams, Jellies.
Claims use since June, 1925.

244,798. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA COMMERCIAL COMPANY, San Francisco, Calif. Filed Mar. 17, 1928. Serial No. 263,306.

RUMPAK

For Table Syrups Flavored with Rum, Canned Fruits, and Preserved Fruits, Jams, Jellies.
Claims use since June, 1925.

244,799. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA COMMERCIAL COMPANY, San Francisco, Calif. Filed Mar. 17, 1928. Serial No. 263,305.

BRANDEPAK

For Table Syrups Flavored with Brandy, Canned Fruits, and Preserved Fruits, Jams, Jellies.
Claims use since June, 1925.

244,800. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARNOLD OINTMENT COMPANY, Macon, Ga. Filed Feb. 2, 1928. Serial No. 261,036.

ARNOLD'S

For Eczema Ointment.
Claims use since Dec. 12, 1908.

244,801. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TASTY DOUGHNUT CO., Battle Creek, Mich. Filed Dec. 31, 1927. Serial No. 259,604.

TASTY
Glazed

For Doughnuts.
Claims use since June 1, 1927.

244,802. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PERLIN PERPETUAL BATTERY COMPANY, Los Angeles, Calif. Filed Dec. 19, 1927. Serial No. 259,121.

PERLIN
2 YEAR

For Automobile Electric Storage Starting and Lighting Batteries.
Claims use since Nov. 1, 1923.

244,803. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL FLEXIBLE GLUE CO., Chicago, Ill. Filed Oct. 26, 1927. Serial No. 256,634.

MIN-IT-MIX

For Adhesive Cold-Water Paste Powder, Adhesive Cold-Water Vegetable Glue, and Adhesive Cold-Water Wheat Paste.
Claims use since on or about Apr. 16, 1926, as applied to cold-water vegetable glue and to the other goods since on or about Oct. 12, 1926.

244,804. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) NEW ENGLAND FARM & GARDEN ASS'N, INC., Boston, Mass. Filed July 25, 1927. Serial No. 252,520.

GRIPIT

For Garden Stakes.
Claims use since about Apr. 5, 1927.

244,805. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRENCH SARDINE COMPANY OF CALIFORNIA, also doing business as French Sardine Co. Inc., Terminal Island, Calif. Filed July 13, 1927. Serial No. 252,014.

MESSINA

For Canned Fish.
Claims use since Jan. 1, 1923.

244,806. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) STARK BROTHERS RIBBON CORPORATION, New York, N. Y. Filed July 2, 1927. Serial No. 251,462.

Blossomettes

For Rosettes Made of Textiles and Similar Woven Material and Ribbons.
Claims use since Apr. 19, 1927.

244,807. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ECONOMY BIAS BINDING CO., New York, N. Y. Filed May 28, 1927. Serial No. 249,710.

Firm Edge

For Piping and Bias Binding.
Claims use since about May 10, 1927.

TRADE-MARK REGISTRATIONS RENEWED

31,524. PORTLAND CEMENT. Registered May 10, 1898. TEUTONIA MISBURGER PORTLAND-CEMENT WERK, Misburg, Germany. Renewed May 10, 1928, to Teutonia Misburger Portland Cementwerk, Hannover, Germany, a Corporation of Prussia.

31,592. TOILET SOAPS, PERFUMERY, AND PREPARATIONS FOR THE TEETH, SKIN, AND HAIR. Registered May 24, 1898. JOSH. CROSFIELD & SONS L'T'D. Renewed May 24, 1928, to The Erasmic Company, Ltd., Warrington, England, a Corporation of Great Britain, successor.

31,805. MUSTARD PICKLES AND SAUCES. Registered July 12, 1898. GEORGE A. BAYLE. Renewed July 12, 1928, to Bayle Food Products Company, St. Louis, Mo., a Corporation of Missouri, successor.

31,930. HOSE, BELTING, PACKING, VALVES, GASKETS, AND SPRINGS. Registered September 6, 1898. REVERE RUBBER CO., Boston, Mass. Renewed September 6, 1928, to United States Rubber Company, New Brunswick, N. J., and New York, N. Y., a Corporation of New Jersey, assignee.

31,935. SACHET POWDERS AND TOILET SOAP. Registered September 6, 1898. THE C. B. WOODWORTH SONS CO., Rochester, N. Y. Renewed September 6, 1928, to Woodworth, Inc., New York and Rochester, N. Y., a Corporation of New York, assignee.

31,950. DISINFECTING, ANTISEPTIC, AND ASEPTICIZING PREPARATIONS. Registered September 6, 1898. THE FIRM OF CARL RASPE, Weissensee, Germany. Renewed September 6, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

31,963. POWDERS, PILLS, TABLETS, PERLS, OINTMENTS, AND TINCTURES. Registered September 13, 1898. PHARMACEUTISCHER INSTITUT LUDWIG WILHELM GANS, Frankfort-on-the-Main, Germany. Renewed September 13, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

32,002. CHEMICAL AND MEDICINAL PREPARATION. Registered September 27, 1898. THE FIRM OF E. MERCK, Darmstadt, Germany. Renewed September 27, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

32,003. CHEMICAL AND MEDICINAL PREPARATION. Registered September 27, 1898. THE FIRM OF E. MERCK, Darmstadt, Germany. Renewed September 27, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

32,021. CERTAIN REMEDY FOR DISEASES OF THE BLOOD AND INFECTIOUS DISEASES. Registered October 4, 1898. CHEMISCHE FABRIK SULZBACH GESELLSCHAFT MIT BESCHRAENKTER HAFTUNG, Sulzbach, Germany. Renewed October 4, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

32,022. CERTAIN REMEDY FOR ARTHRITIS, RHEUMATISM, AND LIKE DISEASES. Registered October 4, 1898. CHEMISCHE FABRIK SULZBACH GESELLSCHAFT MIT BESCHRAENKTER HAFTUNG, Sulzbach, Germany. Renewed October 4, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

32,044. DRIED FRUITS. Registered October 11, 1898. SEGGERMANN BROS., New York, N. Y. Renewed October 11, 1928, to Standard Apple Products, Inc., Hamlin, N. Y., a Corporation of Delaware, assignee by mesne assignments.

32,045. DRIED FRUITS. Registered October 11, 1898. SEGGERMANN BROS., New York, N. Y. Renewed October 11, 1928, to Standard Apple Products Inc., Hamlin, N. Y., a Corporation of Delaware, assignee by mesne assignments.

32,047. DRIED FRUITS AND CANNED FOOD PRODUCTS. Registered October 11, 1898. SEGGERMANN BROS., New York, N. Y. Renewed October 11, 1928, to Standard Apple Products Inc., Hamlin, N. Y., a Corporation of Delaware, assignee by mesne assignments.

32,086. UNGUENT FOR SKIN DISEASES. Registered October 25, 1898. THE FIRM OF DR. L. C. MARQUART, Beuel, near Bonn, Germany. Renewed October 25, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

32,091. DRIED FRUITS. Registered October 25, 1898. SEGGERMANN BROS., New York, N. Y. Renewed October 25, 1928, to Standard Apple Products Inc., Hamlin, N. Y., a Corporation of Delaware, assignee by mesne assignments.

32,125. MANUFACTURED IMITATION LEATHER. Registered November 8, 1898. THE PANTASOTE LEATHER COMPANY, Passaic, N. J., a Corporation of New Jersey. Renewed November 8, 1928.

32,134. A DYSPEPSIA CURE. Registered November 8, 1898. E. C. DE WITT & CO. Renewed November 8, 1928, to E. C. De Witt & Co. Inc., Chicago, Ill., a Corporation of New York, assignee.

32,197. CERTAIN NAMED ARTICLES OF STATIONERY. Registered December 6, 1898. SPENCERIAN PEN COMPANY, New York, N. Y., a Corporation of New Jersey. Renewed December 6, 1928.

32,233. CERTAIN NAMED PACKING-HOUSE PRODUCTS. Registered December 13, 1898. SWIFT AND COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed December 13, 1928.

32,235. CERTAIN NAMED PACKING-HOUSE PRODUCTS. Registered December 13, 1898. SWIFT AND COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed December 13, 1928.

56,661. CERTAIN NAMED KNIT GOODS. Registered October 16, 1906. LOUIS H. HAYS. Renewed October 16, 1926, to The Federal Knitting Mills Company, Cleveland, Ohio, a Corporation of Ohio, assignee.

67,928. COCOA AND CHOCOLATE. Registered February 25, 1908. CADBURY BROTHERS, LIMITED, Birmingham, England, a Corporation of Great Britain. Renewed February 25, 1928.

68,519. PIANOS, PLAYER PIANOS, AND PLAYER-PIANO ACTIONS. Registered April 14, 1908. LAUTER CO. Renewed April 14, 1928, to Lauter Humana Co., Newark, N. J., a Corporation of New Jersey, assignee.

68,854 CERTAIN HAT TRIMMINGS. Registered May 5, 1908. AITKEN, SON & CO. Renewed May 5, 1928, to Aitken, Son & Co., New York, N. Y., a Corporation of New York, successor.

69,476. PARASOLS AND UMBRELLAS. Registered June 16, 1908. THE CRAVENETTE COMPANY LIMITED, Bradford, England. Renewed June 16, 1928, to The Cravenette Company, U. S. A., Hoboken, N. J., a Corporation of New Jersey, assignee.

69,515. LYE, POTASH, AND CAUSTIC SODA. Registered June 16, 1908. JAMES PYLE & SONS, Edgewater, N. J. Renewed June 16, 1928, to The Procter & Gamble Company, Cincinnati, Ohio, a Corporation of Ohio, assignee.

69,530. A WEEKLY MAGAZINE. Registered June 16, 1908. THE VOGUE COMPANY. Renewed June 16, 1928, to The Conde Nast Publications, Inc., New York, N. Y., a Corporation of New York, assignee.

69,548. SILVER-PLATED WARE, COMPRISING SILVER-PLATED FLATWARE, HOLLOW WARE, AND TABLEWARE. Registered June 16, 1908. WM. A. ROGERS LIMITED, Toronto, Ontario, Canada, and Niagara Falls, N. Y., a Corporation of Ontario, Canada. Renewed June 16, 1928.

69,554. A CERTAIN WATERPROOF MATERIAL. Registered June 23, 1908. THE PARAFFINE PAINT CO. Renewed June 23, 1928, to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware, assignee.

69,573. SOAPS OF ALL KINDS AND DETERGENT WASHING POWDER. Registered June 23, 1908. JAMES PYLE & SONS, Edgewater, N. J. Renewed June 23, 1928, to The Procter & Gamble Company, Cincinnati, Ohio, a Corporation of Ohio, assignee.

69,674. REFINED PETROLEUM. Registered June 30, 1908. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y., a Corporation of New York. Renewed June 30, 1928.

69,675. REFINED PETROLEUM. Registered June 30, 1908. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y., a Corporation of New York. Renewed June 30, 1928.

69,743. CERTAIN WATERPROOFED FABRICS. Registered June 30, 1908. THE CRAVENETTE COMPANY, LIMITED, Bradford, England. Renewed June 30, 1928, to The Cravenette Company, U. S. A., Hoboken, N. J., a Corporation of New Jersey, assignee.

69,809. COMPOUND PURGATIVE ELIXIR. Registered July 7, 1908. HANRAHAN PHARMACAL CO. INC. Renewed July 7, 1928, to Frank C. Hanrahan, Portsmouth, Va., successor.

69,951. CANDY JELLIES. Registered July 21, 1908. ROACH, TISDALE & CO., Minneapolis, Minn., a Corporation of Minnesota. Renewed July 21, 1928.

70,504. FIRE EXTINGUISHERS. Registered August 18, 1908. H. W. JOHNS-MANVILLE COMPANY. Renewed August 18, 1928, to Johns-Manville Corporation, New York, N. Y., a Corporation of New York, assignee by mesne assignments.

70,427. CERTAIN SURGICAL APPARATUS. Registered September 1, 1908. DRÄGERWERK HEINR. U. BERNH. DRÄGER, Lubeck, Germany. Renewed September 1, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

70,428. SHAVING BRUSHES. Registered September 1, 1908. GILLETTE SAFETY RAZOR CO. Renewed September 1, 1928, to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware, assignee.

70,539. SMOKED SARDINES IN OIL. Registered September 8, 1908. STAVANGER PRESERVING COMPANY. Renewed September 8, 1928, to Stavanger Preserving Co. A/S, Stavanger, Norway, a Limited Company of Norway, successor.

70,629. WAFERS, BISCUITS, CRACKERS, CAKES, AND BREAD. Registered September 15, 1908. PERFECTION BISCUIT COMPANY, Fort Wayne, Ind., a Corporation of Indiana. Renewed September 15, 1928.

70,645. A SALVE FOR THE TREATMENT OF CERTAIN DISEASES. Registered September 22, 1908. THOMAS M. SAYMAN, St. Louis, Mo. Renewed September 22, 1928.

70,729. MALT VINEGAR. Registered September 29, 1908. GRIMBLE & CO., LIMITED, London, England, a Corporation of Great Britain. Renewed September 29, 1928.

70,738. INSULATED WIRE. Registered September 29, 1908. NATIONAL INDIA RUBBER COMPANY, Bristol, R. I., a Corporation of Rhode Island. Renewed September 29, 1928.

70,758. SOAP. Registered September 29, 1908. GILLETTE SAFETY RAZOR CO. Renewed September 29, 1928, to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware, assignee.

70,856. RAZORS AND RAZOR BLADES. Registered October 13, 1908. GILLETTE SAFETY RAZOR CO. Renewed October 13, 1928, to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware, assignee.

70,980. CERTAIN TEXTILES. Registered October 20, 1908. THE ADAMS MANUFACTURING COMPANY, New York, N. Y., a Corporation of New York. Renewed October 20, 1928.

71,051. COTTON SHEETINGS. Registered October 27, 1908. INDIANA COTTON MILLS, Cannelton, Ind., a Corporation of Indiana. Renewed October 27, 1928.

71,070. STEAM-BOILER INJECTORS. Registered October 27, 1908. PENBERTHY INJECTOR COMPANY. Renewed October 27, 1928, to Penberthy Injector Company, Detroit, Mich., a Corporation of Delaware, successor.

71,193. FOOT PROTECTOR. Registered November 10, 1908. MAX SCHULTZ, Buffalo, N. Y. Renewed November 10, 1928.

71,291. COCOANUT BISCUITS. Registered November 17, 1908. F. B. WASHBURN & CO. CORPORATION, Brockton, Mass., a Corporation of Massachusetts. Renewed November 17, 1928.

71,300. RUBBER BOOTS AND SHOES. Registered November 17, 1908. HOOD RUBBER COMPANY, Boston, Mass. Renewed November 17, 1928, to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts.

71,301. COTTON SHEETINGS. Registered November 17, 1908. INDIANA COTTON MILLS, Cannelton, Ind., a Corporation of Indiana. Renewed November 17, 1928.

71,381. PREPARATIONS FOR BLACKING OR DRESSING IRON SURFACES. Registered November 24, 1908. GEORGE H. JOHNSON. Renewed November 24, 1928, to Johnson's Laboratory, Inc., Worcester, Mass., a Corporation of Massachusetts, assignee.

71,422. A REMEDY FOR DISEASES OF THE GENERATIVE ORGANS. Registered November 24, 1908. ARENT BROS. MEDICAL CO., Rutland, Iowa. Renewed November 24, 1928.

71,446. FOUNTAIN PENS. Registered November 24, 1908. MABIE, TODD & CO., New York, N. Y., a Corporation of New York. Renewed November 24, 1928.

71,448. DYSPEPSIA REMEDIES. Registered November 24, 1908. THE MOTHER SEIGEL'S SYRUP CO. Renewed November 24, 1928, to A. J. White, Limited, New York, N. Y., a Corporation of New York, by change of name.

71,449. LAXATIVE PILLS. Registered November 24, 1908. THE MOTHER SEIGEL'S SYRUP CO. Renewed November 24, 1928, to A. J. White, Limited, New York, N. Y., a Corporation of New York, by change of name.

71,478. GAS-BURNING VEHICLE LAMPS. Registered November 24, 1908. R. E. DIETZ COMPANY, New York, N. Y., a Corporation of New York. Renewed November 24, 1928.

71,510. DYSPEPSIA REMEDIES. Registered December 1, 1908. THE MOTHER SEIGEL'S SYRUP CO. Renewed December 1, 1928, to A. J. White, Limited, New York, N. Y., a Corporation of New York, by change of name.

71,549. AXLE GREASE. Registered December 1, 1908. THE MONARCH MANUFACTURING COMPANY, Council Bluffs, Iowa, and Toledo, Ohio. Renewed December 1, 1928, to Monamotor Oil Company, Council Bluffs, Iowa, a Corporation of Arizona, assignee.

71,550. CORNSTARCH. Registered December 1, 1908. NATIONAL STARCH CO., Jersey City, N. J., and Oswego, N. Y. Renewed December 1, 1928, to Corn Products Refining Company, New York, N. Y., a Corporation of New Jersey, assignee.

71,562. RAZOR STROPS. Registered December 1, 1908. SIMMONS HARDWARE COMPANY, St. Louis, Mo. Renewed December 1, 1928, to Simmons Hardware Company, New Haven, Conn., a Corporation of Missouri.

71,574. GENTLEMEN'S FELT DERBIES AND SOFT-BRIMMED HATS. Registered December 1, 1908, to BORSALINO GIUSEPPE E TRATELLO SOCIETÀ ANONIMA, Alessandria, Italy, an Association of Italy. Renewed December 1, 1928.

71,575. CERTAIN HATS. Registered December 1, 1908. BORSALINO GIUSEPPE E TRATELLO SOCIETÀ ANONIMA, Alessandria, Italy, an Association of Italy. Renewed December 1, 1928.

71,592. PIPE AND BOILER COVERING. Registered December 1, 1908. H. W. JOHNS-MANVILLE COMPANY. Renewed December 1, 1928, to Johns-Manville Corporation, New York, N. Y., a Corporation of New York, assignee by mesne assignments.

71,599. LAUNDRY STARCH. Registered December 1, 1908. NATIONAL STARCH CO., Jersey City, N. J., and Oswego, N. Y. Renewed December 1, 1928, to Corn Products Refining Company, New York, N. Y., a Corporation of New Jersey, assignee.

71,601. GLUE. Registered December 1, 1908. PETER COOPER'S GLUE FACTORY, New York, N. Y. Renewed December 1, 1928, to Peter Cooper's Glue Factory, Gowanda, N. Y., a Corporation of New York.

71,602. GLUE. Registered December 1, 1908. PETER COOPER'S GLUE FACTORY, New York, N. Y. Renewed December 1, 1928, to Peter Cooper's Glue Factory, Gowanda, N. Y., a Corporation of New York.

71,603. GAS HEADLIGHTS. Registered December 1, 1908. R. E. DIETZ COMPANY, New York, N. Y., a Corporation of New York. Renewed December 1, 1928.

71,634. GLUTEN FEED. Registered December 8, 1908. CORN PRODUCTS REFINING COMPANY, Jersey City, N. J., and New York, N. Y. Renewed December 8, 1928, to Corn Products Refining Company, New York, N. Y., a Corporation of New Jersey.

71,640. CHEWING GUM. Registered December 8, 1908. ORVILLE D. JONES, Chicago, Ill. Renewed December 8, 1928.

71,656. DEXTRIN. Registered December 8, 1908. CORN PRODUCTS REFINING COMPANY, New York, N. Y., a Corporation of New Jersey. Renewed December 8, 1928.

71,676. BEER. Registered December 8, 1908. AKTIEN-BRAUEREI ZUM LÖWENBRÄU IN MÜNCHEN, Munich, Germany, a Corporation of Germany. Renewed December 8, 1928.

71,700. HOT-WATER BAGS OR BOTTLES AND FOUNTAIN SYRINGES. Registered December 8, 1908. UNITED DRUG COMPANY, Boston, Mass., a Corporation of Delaware. Renewed December 8, 1928.

71,723. TOOTH PASTE AND TOOTH WASH. Registered December 15, 1908. PYRO CHEMICAL COMPANY, as assignee of George A. Swartout. Renewed December 15, 1928, to The Pyrodento Company, Baltimore, Md., a Corporation of Maryland, assignee by mesne assignments.

71,789. COFFEE. Registered December 15, 1908. OAKFORD & FAHNESTOCK, Peoria, Ill., a Corporation of Illinois. Renewed December 15, 1928.

LABELS

REGISTERED JULY 24, 1928.

34,344.—*Title:* HI-WAY HENRY CROSS COUNTRY 'TIN LIZZY' RACE. For a Game. ALDERMAN, FAIRCHILD CO., Rochester, N. Y. Published February 1, 1928.

34,345.—*Title:* LUCKY LINDY. For Candy. AMERICAN NOVELTY CANDY CO., Brooklyn, N. Y. Published April 20, 1928.

34,346.—*Title:* FLAT WALL PAINT. For Flat Wall Paint. E. C. BENSON, Chicago, Ill. Published April 22, 1928.

34,347.—*Title:* SONOMA COUNTY. For Fresh Grapes. CALIFORNIA GRAPE GROWERS EXCHANGE, San Francisco, Calif. Published May 10, 1928.

34,348.—*Title:* DIRECT FLOW SYRINGE. For Direct-Flow Syringes. ABRAHAM GORTZ, Brooklyn, N. Y. Published April 16, 1928.

34,349.—*Title:* MRS. KLEIN'S HOME MADE REAL EGG NOODLES. For Noodles. ALEC S. KLEIN, doing business as F. L. Klein Noodle Co., Chicago, Ill. Published February 20, 1928.

34,350.—*Title:* LEMON OIL. For Furniture Polish. MIDWAY CHEMICAL CO., Chicago, Ill. Published May 15, 1928.

34,351.—*Title:* MUHSCO. For Bacon. THE HENRY MUHS COMPANY, Passaic, N. J. Published May 1, 1928.

34,352.—*Title:* OCEANIC. For Salmon. THE OCEANIC SALES COMPANY, Seattle, Wash. Published June 15, 1928.

34,353.—*Title:* OSBORNE'S EARACHE REMEDY. For Earache Drops. FRED H. OSBORNE, doing business as Osborne Drug and Chemical Co., Detroit, Mich. Published May 1, 1928.

34,354.—*Title:* PENY-SAVR. For Bread. THE QUAKER BAKING COMPANY, Council Bluffs, Iowa. Published April 23, 1928.

34,355.—*Title:* SAVAGE SUPERIOR. For Shot Shells. M. W. SAVAGE FACTORIES, INC., doing business as M. W. Savage Co., Minneapolis, Minn. Published June 2, 1928.

34,356.—*Title:* TONKA. For Canned Tomatoes. JORDAN STEVENS COMPANY, Minneapolis, Minn. Published May 15, 1928.

34,357.—*Title:* TIME O'DAY. For Canned Peaches. JORDAN STEVENS COMPANY, Minneapolis, Minn. Published May 15, 1928.

34,358.—*Title:* QWIK-N-EAZY CLEANER. For Cleaner. TWENTIETH CENTURY MANUFACTURING COMPANY, Cedar Rapids, Iowa. Published May 7, 1928.

34,359.—*Title:* TEMPLE. For Canned Tomatoes. THE UTAH CANNING CO., Ogden, Utah. Published May 15, 1928.

34,360.—*Title:* DELMONICO. For Coffee. WHEELING COFFEE AND SPICE COMPANY, Wheeling, W. Va. Published May 1, 1928.

PRINTS

REGISTERED JULY 24, 1928.

11,111.—*Title:* IN 'B. V. D.' YOUR EVERY MOVEMENT SETS UP A 'BELLOWS ACTION'. For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published June 20, 1928.

11,112.—*Title:* HIS FIRST GREAT ADVENTURE. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published June 10, 1928.

11,113.—*Title:* THE FINISHING TOUCH TO A WOMAN'S COSTUME, OFTEN AS NOT, IS THE VERY SECRET OF HER CHARM. For Heinz 57 Varieties. H. J. HEINZ COMPANY, doing business under the name of Heinz, Pittsburgh, Pa. Published April 1, 1928.

11,114.—*Title:* LET YOUR CONVERSATION BE WITTY: YOUR MANNER GRACIOUS. For Heinz 57 Varieties. H. J. HEINZ COMPANY, doing business under the name of Heinz, Pittsburgh, Pa. Published June 1, 1928.

11,115.—*Title:* SO MUCH DEPENDS ON THE SAUCE. For Cooked Spaghetti in Tomato Sauce with Cheese. H. J. HEINZ COMPANY, Pittsburgh, Pa. Published June 16, 1928.

11,116.—*Title:* SATISFACTION WITH EVERY TRANSACTION. For Women's, Misses', and Children's Wearing Apparel. PHILIP DAVID JACOBSON, doing business as Jacobson's, Philadelphia, Pa. Published December 22, 1927.

11,117.—*Title:* E. ROOFING. For Roofing Products. JAY T. MORLEY, Buffalo, N. Y. Published June 3, 1922.

11,118.—*Title:* A LITTLE LIGHT ON A BURNING SUBJECT. For Coal. OLD BEN COAL CORPORATION, Chicago, Ill. Published June 15, 1928.

11,119.—*Title:* THIS WEIGH TO FASHION. For Junior Misses' Apparel. JORDAN MARSH COMPANY, Boston, Mass. Published May 10, 1928.

11,120.—*Title:* MEET THE GHILLIE. For Shoes. JORDAN MARSH COMPANY, Boston, Mass. Published March 15, 1928.

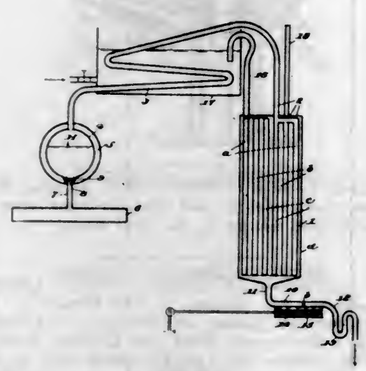
11,121.—*Title:* FIFTEEN—ALL. For Junior Misses' Apparel. JORDAN MARSH COMPANY, Boston, Mass. Published June 1, 1928.

11,122.—*Title:* GRACE TANCILL JERSEY SWEATER DRESS, MODEL XII. For Dresses. GRACE TANCILL, St. Louis, Mo. Published June 18, 1928.

REISSUES

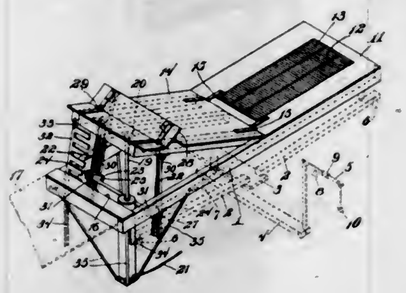
JULY 24, 1928.

17,045. REFRIGERATING PLANT. IVAR AMUNDSEN, Oslo, Norway, assignor to A/S Amundsen Refrigerator Company, Oslo, Norway. Filed May 18, 1928. Serial No. 278,816. Original No. 1,647,208, dated Nov. 1, 1927, Serial No. 145,037, filed Oct. 29, 1926. 4 Claims. (Cl. 62—178.)



1. A refrigeration process which comprises, adsorbing in activated coal the vapors of a mass of monohydric acohol which is in heat exchanging relation with a medium to be cooled, then heating said activated coal to drive off the adsorbed alcohol, condensing said alcohol and after the evaporation of said condensed alcohol in the refrigerating act, repeating the above steps in cyclic operation.

17,046. WAGON AND TRUCK DUMP. WILLIAM GEORGE HANCOCK and LEONARD T. STROMSWOLD, Minot, N. Dak., assignors to Magic Grain Dump Company, Minot, N. Dak., a Corporation. Filed May 5, 1925. Serial No. 28,221. Original No. 1,505,777, dated Aug. 19, 1924, Serial No. 537,019, filed Feb. 16, 1922. 12 Claims. (Cl. 214—49.)



1. A device of the type described comprising a frame having an elevating platform and a guard connected to the free end of said platform, guide members carried by said frame and being adapted to receive and to guide the free end of said guard, said guard being adapted to extend between said elevating platform and said frame when said platform is in raised position.

17,047. OVERALLS. FREDERIC O. MAHAN, Eugene, Oreg. Filed Nov. 23, 1927. Serial No. 235,386. Original No. 1,590,843, dated June 29, 1926, Serial No. 35,550, filed June 8, 1925. 3 Claims. (Cl. 2—230.)



1. In a sleeveless overall, the combination with a leg covering member having a waist line opening adjacent to each hip, of supporting members adapted to extend over the shoulders of the wearer and having substantially triangular front and rear portions severally free at their side edges, the bases of said portions overlapping and extending substantially from one of said openings to the other.

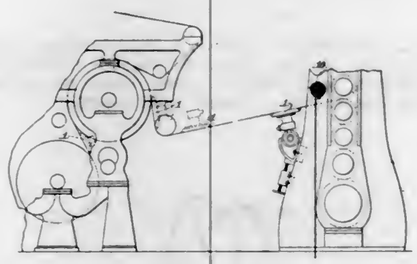
17,048. METHOD OF MAKING VENTILATING STRIPS FOR TRANSFORMERS. FRANK H. TUPPER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 7, 1927. Serial No. 238,446. Original No. 1,565,532, dated Dec. 15, 1925, Serial No. 555,181, filed Apr. 18, 1922. 16 Claims. (Cl. 18—59.)



1. A method of joining molded articles which comprises roughening the surfaces to be joined, placing on said roughened surfaces a binder which is adapted to harden

under the influence of heat and pressure, inserting said articles in a press with their treated surfaces in engagement and applying heat and pressure thereto to form an integral structure.

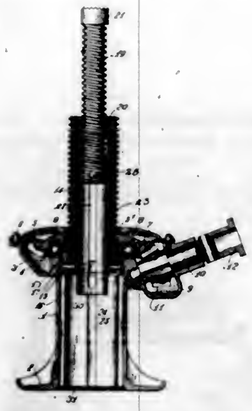
17,049. MOISTURE INDICATING AND RECORDING. GEORGE STANFORD WITHAM, Jr., Hudson Falls, N. Y. Filed Apr. 2, 1928. Serial No. 266,738. Original No. 1,626,060, dated Apr. 26, 1927, Serial No. 531,863, filed Jan. 26, 1922. 21 Claims. (Cl. 73—24.)



18. In a machine of the character described, wherein a web of paper or the like is caused to travel over drying rolls, means for determining the moisture content of the web at a predetermined point along the path of motion thereof, comprising mechanism responsive to variations in humidity conditions of air, conducting and circulating means for maintaining a flow of gas past said point and thence to the responsive means and including confining means disposed at said point for bringing the gas throughout a constant area into contact with the surface of the traveling web.

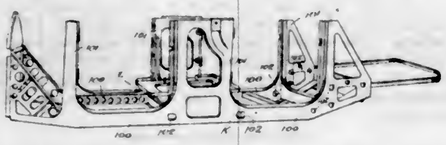
17,050. LIFTING JACK. IRWIN E. DEARSLEY, Racine, Wis., assignor to Walker Manufacturing Company, Racine, Wis., a Corporation of Wisconsin. Filed Feb. 12, 1926. Serial No. 87,981. Original No. 1,533,168, dated Apr. 14, 1925, Serial No. 732,041, filed Aug. 14, 1924. 19 Claims. (Cl. 254—102.)

1. A lifting jack comprising a hollow standard, a rotatable driving member mounted in the upper portion of the standard, a pair of nested screws mounted in the standard and driving member, and separate connections between the standard and each screw, whereby when the driving member is continuously rotated the outer screw will first



be positively elevated to its full height, carrying the inner screw bodily with it, and then the inner screw will be elevated with relation to the outer screw.

17,051. AUTOMOBILE BODY. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to The Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 2, 1928. Serial No. 266,739. Original No. 1,143,635, dated June 22, 1915, Serial No. 845,621, filed June 17, 1914. 46 Claims. (Cl. 296—28.)

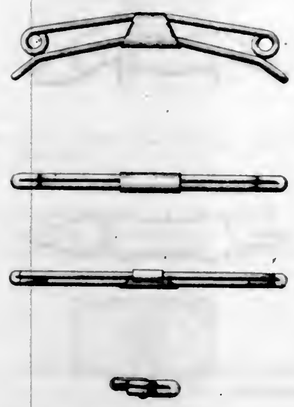


1. An automobile body frame including side members each formed in one piece and having vertical portions thereof to form door posts, a skeleton frame member connecting the upper parts of corresponding door posts at opposite sides of the body frame, and a shell applied to said frame to form body sides and a seat back, the seat being connected to the skeleton frame member.

DESIGNS

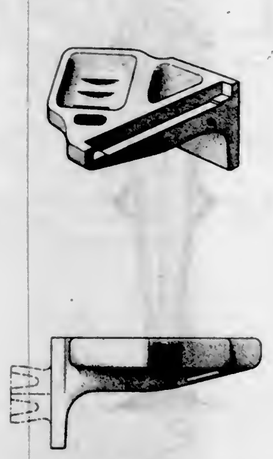
JULY 24, 1928.

75,818. COLLAR HOLDER. LAWRENCE E. BAER, Attleboro, Mass., assignor to The Baer & Wilde Company, Attleboro, Mass. Filed Dec. 8, 1927. Serial No. 24,418. Term of patent 14 years.



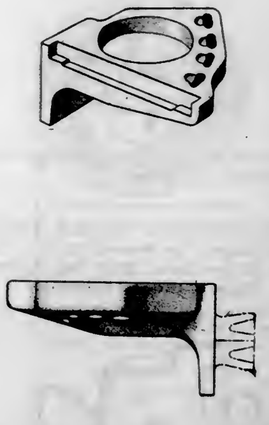
The ornamental design for a collar holder as shown.

75,819. COMBINATION BATH FIXTURE. JOHN H. BALMER, Maplewood, N. J. Filed Feb. 23, 1928. Serial No. 25,553. Term of patent 14 years



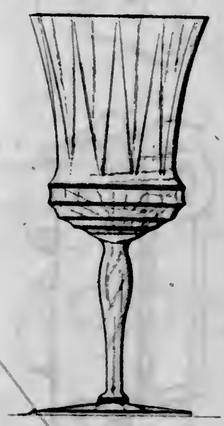
The ornamental design for a combination bath fixture as shown.

75,820. COMBINATION BATH FIXTURE. JOHN H. BALMER, Maplewood, N. J. Filed Feb. 23, 1928. Serial No. 25,554. Term of patent 14 years.



The ornamental design for a combination bath fixture as shown.

75,821. GOBLET OR SIMILAR ARTICLE. CHARLES C. BEAM, Cumberland, Md., assignor to The Potomac Glass Company, Cumberland, Md., a Corporation of Maryland. Filed Sept. 29, 1927. Serial No. 23,573. Term of patent 14 years.



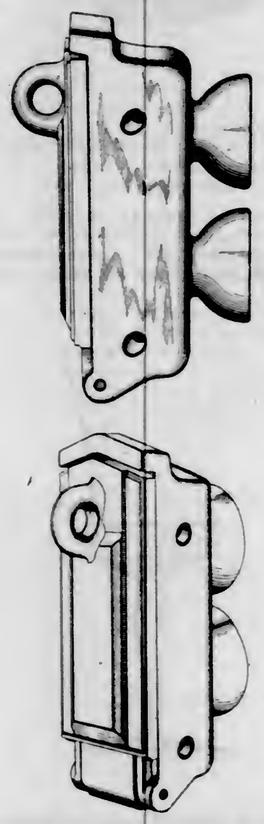
The ornamental design for a goblet or similar article as shown and described.

75,822. AUTOMOBILE RADIATOR ORNAMENT. CARLOS F. BENNETT, Oceanside, Calif. Filed May 7, 1928. Serial No. 26,601. Term of patent 7 years.



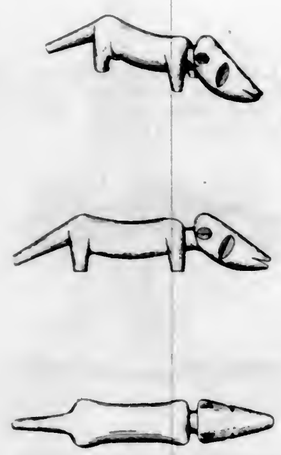
The ornamental design for an automobile radiator ornament substantially as shown.

75,823. FUSE CONTAINER. RALPH S. BENNETT, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Feb. 1, 1928. Serial No. 25,108. Term of patent 14 years.



The ornamental design for a fuse container as shown.

75,824. WATCH CHARM OR SIMILAR ARTICLE. JOSEPH A. BLEWETT, Philadelphia, Pa. Filed Aug. 18, 1927. Serial No. 23,142. Term of patent 3½ years.



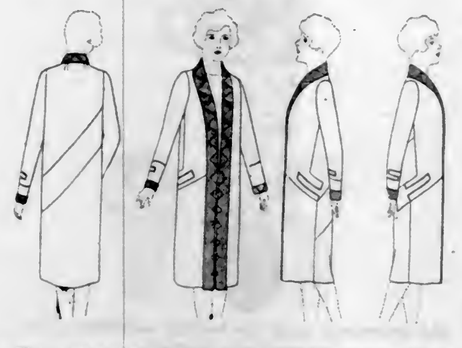
The ornamental design for a watch charm or similar article substantially as shown.

75,825. VASE OR SIMILAR ARTICLE. HOWARD L. BUDD, Brooklyn, N. Y. Filed Apr. 9, 1928. Serial No. 26,196. Term of patent 7 years.



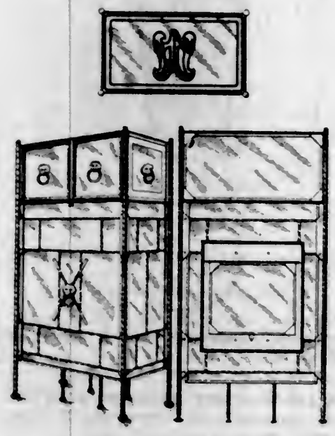
The ornamental design for a vase or similar article as shown.

75,826. COAT. KATHERINE E. BURNS, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 24, 1928. Serial No. 25,572. Term of patent 3½ years.



The ornamental design for a coat, substantially as shown and described.

75,827. RADIOCABINET OR SIMILAR ARTICLE. GAETANO CALAFATO, Westbury, N. Y. Filed Dec. 21, 1927. Serial No. 24,574. Term of patent 14 years.



The ornamental design for a radiocabinet or similar article as shown.

75,828. RACK FOR ARTICLES. ALBERT H. CANFIELD, Bridgeport, Conn. Filed Sept. 19, 1927. Serial No. 23,468. Term of patent 3½ years.



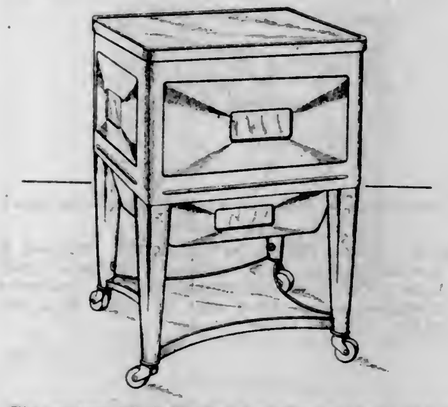
The ornamental design for a rack for articles, as shown.

75,829. FLOWERPOT. CARL E. CARLSON and ALBERT C. GRUNWALD, Chicago, Ill., assignors to Precision Metal Workers, Chicago, Ill., a Corporation of Illinois. Filed Mar. 29, 1928. Serial No. 26,073. Term of patent 14 years.



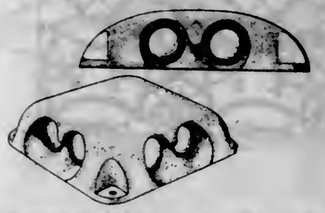
The ornamental design for a flowerpot as shown.

75,830. COMBINED TABLE AND CASING FOR A WASHING MACHINE OR THE LIKE. MARK A. DEFIBAUGH, Schenectady, N. Y., assignor to L. E. Case, Inc., Schenectady, N. Y., a Corporation of New York. Filed Mar. 15, 1928. Serial No. 25,855. Term of patent 14 years.



The ornamental design for a combined table and casing for a washing machine or the like, as shown.

75,831. STREET-TRAFFIC SIGNAL. KNUTH E. ERICKSON, Portland, Oreg. Filed Jan. 9, 1926. Serial No. 16,016. Term of patent 3½ years.



The ornamental design for a street traffic signal as shown.

75,832. MEMORIAL GRAVE MARKER. FRANK F. FISCHER, Oklahoma City, Okla. Filed Feb. 16, 1928. Serial No. 25,453. Term of patent 3½ years.



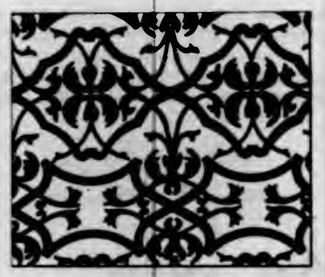
The ornamental design for a memorial grave marker, as shown.

75,833. STAIR-ROD HOLDER. ERNEST E. FOUND, Hillsdale, Mich. Filed July 3, 1925. Serial No. 13,988. Term of patent 7 years.



The ornamental design for a stair rod holder, as shown.

75,834. COVER PAPER OR THE LIKE. WILLIAM S. FOWLER, Holyoke, Mass., assignor to Hampden Glazed Paper & Card Company, Holyoke, Mass., a Corporation of Massachusetts. Filed Apr. 19, 1928. Serial No. 26,388. Term of patent 7 years.



The ornamental design for cover paper or the like as shown.

75,835. HOSIERY. ROBERT FRIEDRICH, Philadelphia, Pa. Filed Feb. 6, 1928. Serial No. 25,238. Term of patent 14 years.



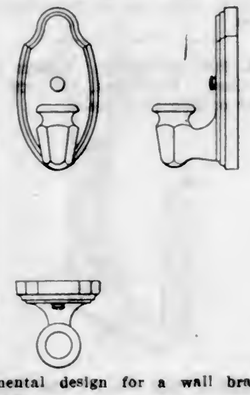
The ornamental design for hosiery, as shown.

75,836. GLASS TUMBLER. RICHARD S. GIESE, Sewickley Heights Township, Allegheny County, Pa. Filed Dec. 17, 1927. Serial No. 24,513. Term of patent 7 years.



The ornamental design for a glass tumbler, as shown and described.

75,837. WALL-BRACKET LIGHTING FIXTURE. JOHN W. GILL, Glendale, Calif. Filed May 5, 1928. Serial No. 26,580. Term of patent 7 years.



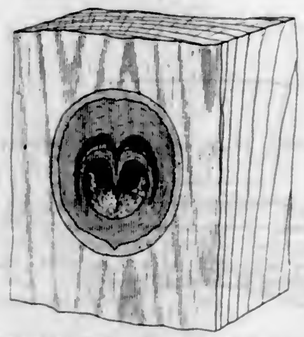
The ornamental design for a wall bracket lighting fixture as shown.

75,838. FINGER RING. PHILIP GRILL, New York, N. Y., assignor to the Firm Grill & Schwartz, New York, N. Y. Filed May 18, 1928. Serial No. 26,740. Term of patent 7 years.



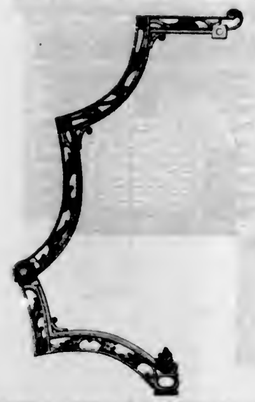
The ornamental design for a finger ring, as shown.

75,839. PANEL FOR FURNITURE. ELBERT GRIFFIN, Terre Haute, Ind. Filed Mar. 1, 1928. Serial No. 25,638. Term of patent 7 years.



The ornamental design for a panel for furniture, as shown.

75,840. BRACKET FOR LIGHTING FIXTURES OR SIMILAR ARTICLES. FREDERICK E. HADERMANN, White Plains, N. Y., assignor to University Manufacturing & Sales Co. Inc., New York, N. Y., a Corporation of New York. Filed Apr. 2, 1928. Serial No. 26,097. Term of patent 3½ years.



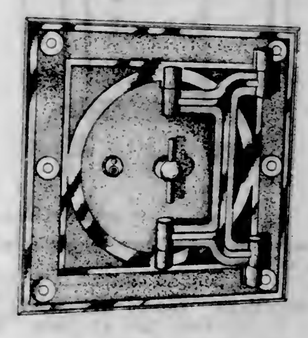
The design for a bracket for lighting fixtures or similar articles, substantially as shown.

75,841. RADIO RECEIVING SET CABINET. ALBERT E. HANSEN, Chicago, Ill. Filed Apr. 11, 1928. Serial No. 26,277. Term of patent 14 years.



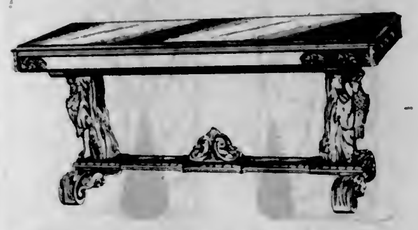
The ornamental design for a radio receiving set cabinet substantially as shown.

75,842. ENTRANCE DOOR FOR A DEPOSITORY. EDWARD C. HANSON and BURT E. HALLQUIST, Minneapolis, Minn., assignors to O. B. McClintock Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Sept. 2, 1927. Serial No. 23,279. Term of patent 14 years.



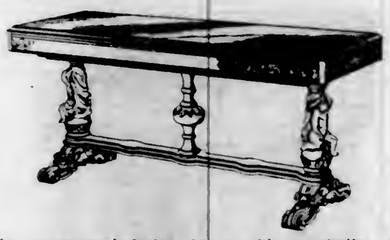
The ornamental design for an entrance door for a depository, as shown.

75,843. TABLE OR SIMILAR ARTICLE. JOSEPH JOHN HEYMAN, Chicago, Ill., assignor to Milano Furniture Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 12, 1928. Serial No. 26,301. Term of patent 3½ years.



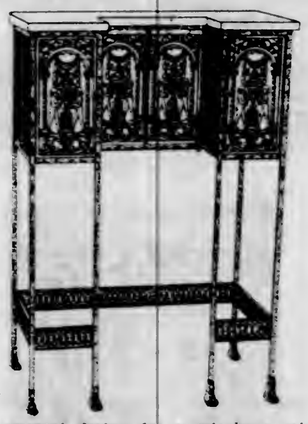
The ornamental design for a table or similar article as shown and described.

75,844. TABLE OR SIMILAR ARTICLE. JOSEPH JOHN HEYMAN, Chicago, Ill., assignor to Milano Furniture Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 12, 1928. Serial No. 26,302. Term of patent 3½ years.



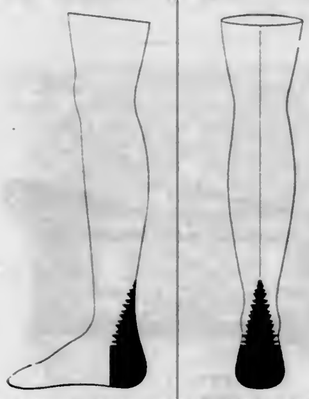
The ornamental design for a table or similar article as shown and described.

75,845. TELEPHONE CABINET. JOSEPH ZWEIG, Brooklyn, N. Y., assignor to Metropolitan Lamp Co., Inc., New York, N. Y., a Corporation of New York. Filed May 24, 1928. Serial No. 26,841. Term of patent 3½ years.



The ornamental design for a telephone cabinet substantially as shown.

75,846. STOCKING. ARTHUR MAX ALFRED HOFFMAN, Passaic, N. J. Filed Jan. 17, 1928. Serial No. 24,903. Term of patent 7 years.



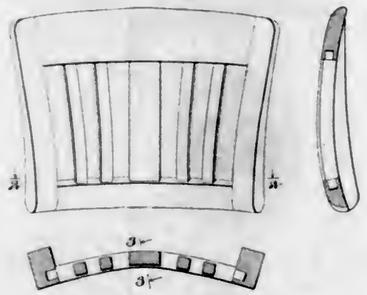
The ornamental design for a stocking, substantially as shown.

75,847. RADIATOR CAP. ROBERT H. HUMMERT, Dayton, Ohio, assignor to The S. H. Thomson Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 27, 1927. Serial No. 21,738. Term of patent 3½ years.



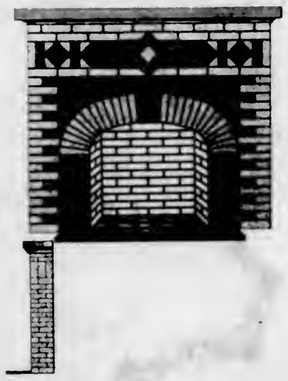
The ornamental design for a radiator cap, as shown.

75,848. CHAIR BACK. ARTHUR L. JOHNSON, Oak Park, Ill. Filed Nov. 10, 1927. Serial No. 24,065. Term of patent 14 years.



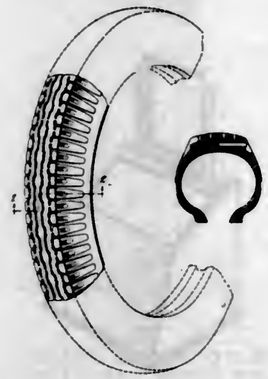
The ornamental design for a chair back, as shown.

75,849. FIREPLACE. JONAS G. JOHNSON, Baltimore, Md. Filed Jan. 20, 1928. Serial No. 24,939. Term of patent 14 years.



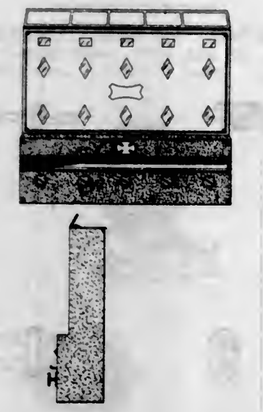
The ornamental design for a fireplace as shown.

75,850. TIRE. ALEY E. JONES, Cuyahoga Falls, Ohio, assignor to Lambert Tire & Rubber Co., Barberton, Ohio, a Corporation of Arizona. Filed Mar. 27, 1928. Serial No. 26,030. Term of patent 14 years.



The ornamental design for a tire substantially as shown.

75,851. VENDING-MACHINE CASING. BERT G. LARRABEE, HARRY A. ROOT, and ERNEST S. CASSADAY, Houston, Tex., assignors to Portable Self-Serving Store Company, Houston, Tex., a Corporation of Delaware. Filed Feb. 13, 1928. Serial No. 25,436. Term of patent 3½ years.



The ornamental design for a vending machine casing, as shown.

75,852. BOTTLE. LUCIEN LELONG, Paris, France, assignor to Lucien Lelong, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 12, 1928. Serial No. 26,303. Term of patent 7 years.



The ornamental design for a bottle as shown.

75,853. GLASS TUMBLER. HARRY L. LISSFELT, New York, N. Y., assignor to Macbeth-Evans Glass Company, Charleroi, Pa., a Corporation of Pennsylvania. Filed Apr. 13, 1928. Serial No. 26,317. Term of patent 3½ years.



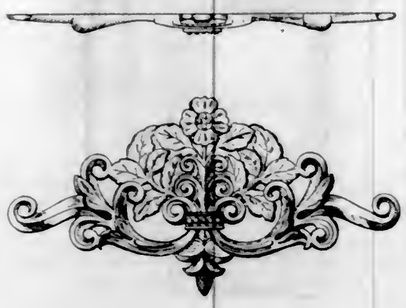
The ornamental design for a glass tumbler, as shown.

75,854. BOTTLE. GEORGE N. MAS and SOTIR K. LUBONIA, Washington, D. C. Filed Feb. 25, 1925. Serial No. 12,487. Term of patent 3½ years.



The ornamental design for a bottle as shown.

75,855. CENTER ORNAMENT FOR DRAPERY POLES AND RODS. GUNNAR MADVIG, Oakland, Calif. Filed Feb. 21, 1928. Serial No. 25,513. Term of patent 3½ years.



The ornamental design for a center ornament for drapery poles and rods substantially as shown.

75,856. CENTER ORNAMENT FOR DRAPERY POLES AND RODS. GUNNAR MADVIG, Oakland, Calif. Filed Feb. 21, 1928. Serial No. 25,515. Term of patent 3½ years.



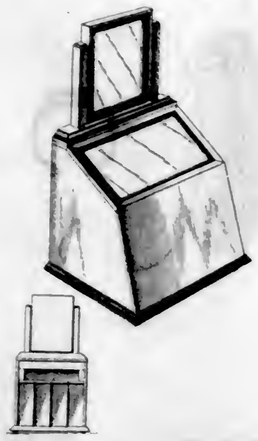
The ornamental design for a center ornament for drapery poles and rods substantially as shown.

75,857. CENTER ORNAMENT FOR DRAPERY POLES AND RODS. GUNNAR MADVIG, Oakland, Calif. Filed Feb. 21, 1928. Serial No. 25,516. Term of patent 3½ years.



The ornamental design for a center ornament for drapery poles and rods substantially as shown.

75,858. COUNTER DISPLAY APPLIANCE. WILLIAM H. MATHER, New Brunswick, N. J., assignor to Johnson & Johnson, New Brunswick, N. J., a Corporation of New Jersey. Filed Apr. 2, 1928. Serial No. 26,103. Term of patent 14 years.



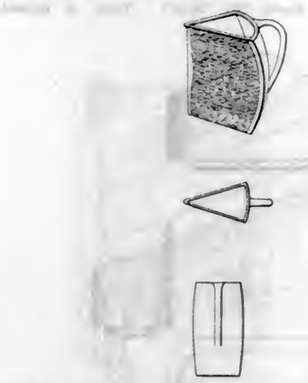
The ornamental design for a counter display appliance, as shown.

75,859. LOUD-SPEAKER EXTENSION. ARTHUR B. MCCALL, Springfield, Ill. Filed Nov. 3, 1926. Serial No. 19,600. Term of patent 3½ years.



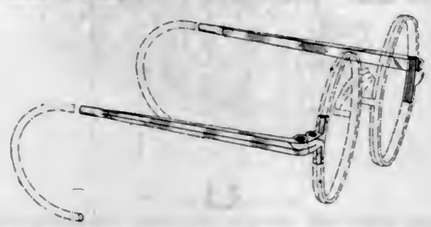
The ornamental design for a loud speaker extension as shown.

75,860. PITCHER. HELEN G. MONROE, Santa Barbara, Calif. Filed Oct. 25, 1927. Serial No. 23,879. Term of patent 14 years.



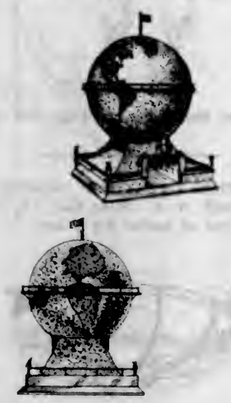
The ornamental design for a pitcher, substantially as shown.

75,861. COMBINED TEMPLE BAR AND END PIECE FOR OPHTHALMIC MOUNTINGS. GEORGE E. NERNEY, Attleboro, Mass., assignor to Bay State Optical Company, Attleboro, Mass., a Corporation of Maine. Filed Nov. 13, 1926. Serial No. 19,718. Term of patent 7 years.



The ornamental design for a combined temple bar and end piece for ophthalmic mountings, as shown and described.

75,862. MEMORIAL BUILDING. ASHTON T. NELSON, Wilton Junction, Iowa. Filed Aug. 12, 1927. Serial No. 23,072. Term of patent 7 years.



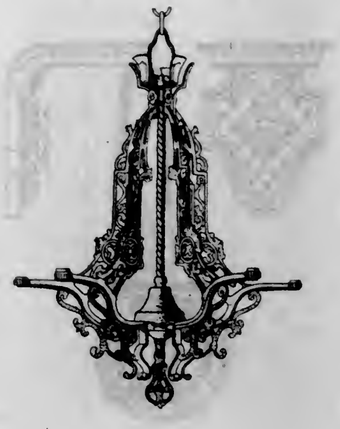
The ornamental design for a memorial building as shown.

75,863. HANDLE FOR A THERMOSTATIC VALVE. SERRIL W. NICHOLAS, Providence, R. I., assignor to Leonard-Rooke Company, Providence, R. I., a Corporation of Rhode Island. Filed Sept. 25, 1926. Serial No. 19,176. Term of patent 14 years.



The ornamental design for a handle for a thermostatic valve, substantially as shown.

75,864. CHANDELIER. JOSEPH NOVIN, New York, N. Y., assignor to the Centre Lighting Fixture Mfg. Co., New York, N. Y., a Partnership composed of said Novin and Samuel Ribak. Filed May 21, 1928. Serial No. 26,781. Term of patent 3½ years.



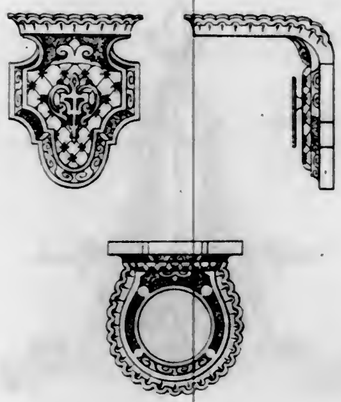
The ornamental design for a chandelier substantially as shown and described.

75,865. LIGHTING FIXTURE. ALBERT J. D. OHM, Oak Park, Ill., assignor to R. Williamson & Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 24, 1928. Serial No. 25,568. Term of patent 14 years.



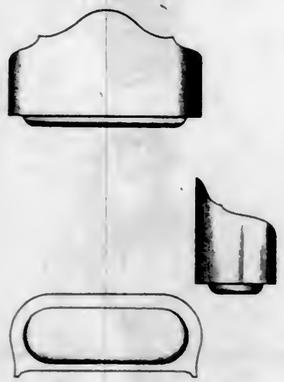
The ornamental design for a lighting fixture, as shown.

75,866. LIGHTING FIXTURE. ALBERT J. D. OHM, Oak Park, Ill., assignor to R. Williamson & Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 24, 1928. Serial No. 25,570. Term of patent 14 years.



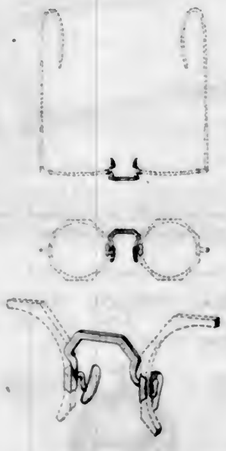
The ornamental design for a lighting fixture, as shown.

75,867. LIGHTING-FIXTURE SHADE. ALBERT J. D. OHM, Oak Park, Ill., assignor to R. Williamson & Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 24, 1928. Serial No. 25,571. Term of patent 14 years.



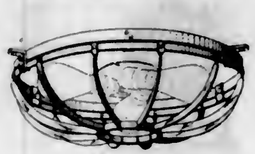
The ornamental design for a lighting fixture shade, as shown.

75,868. BRIDGE FOR SPECTACLES. EMANUEL PAPPERT, New York, N. Y. Filed Feb. 10, 1928. Serial No. 25,354. Term of patent 7 years.



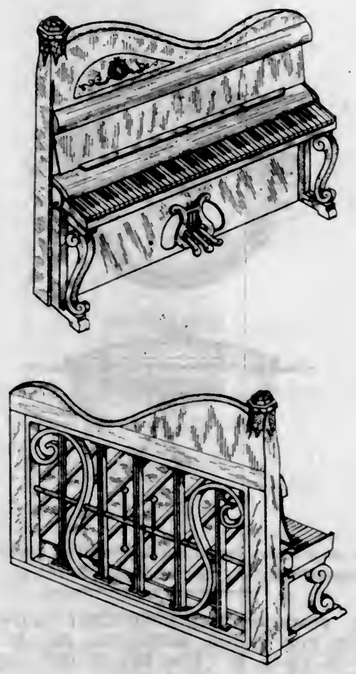
The ornamental design for a bridge for spectacles as shown.

75,869. LIGHTING - FIXTURE GUARD. RICHARD PFEIFFER, Newark, N. J. Filed Mar. 11, 1927. Serial No. 21,103. Term of patent 3½ years.



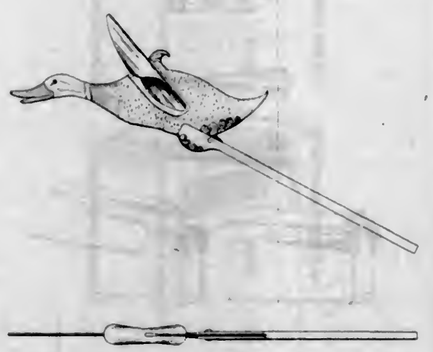
The ornamental design for a lighting fixture guard, as shown.

75,870. GOLDEN HARP PIANO. CHARLES WILLIAM PRESSLEY, Hollywood, Calif. Filed Dec. 27, 1927. Serial No. 24,670. Term of patent 14 years.



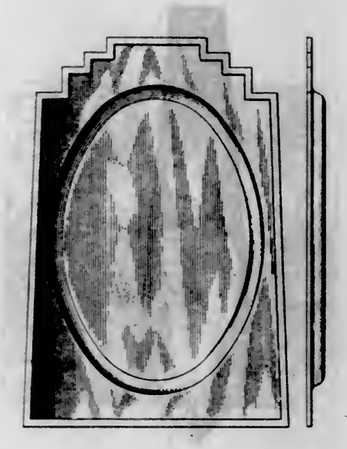
The ornamental design for a golden harp piano substantially as shown.

75,871. TOY. EARL REEK, Oakland, Calif. Filed Apr. 11, 1928. Serial No. 26,286. Term of patent 7 years.



The ornamental design for a toy substantially as shown.

75,872. TRAY OR SIMILAR ARTICLE. LOUIS W. RICE, New York, N. Y., assignor to Bernard Rice's Sons, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 23, 1928. Serial No. 25,983. Term of patent 7 years.



The ornamental design for a tray or similar article, as shown.

75,873. BOTTLE OR SIMILAR ARTICLE. LOUIS W. RICE, New York, N. Y., assignor to Bernard Rice's Sons, Inc., New York, N. Y., a Corporation of New York. Filed May 18, 1928. Serial No. 26,751. Term of patent 7 years.



The ornamental design for a bottle or similar article, as shown.

75,874. NECKTIE. SARAH RISER, Philadelphia, Pa. Filed Feb. 4, 1928. Serial No. 25,203. Term of patent 7 years.



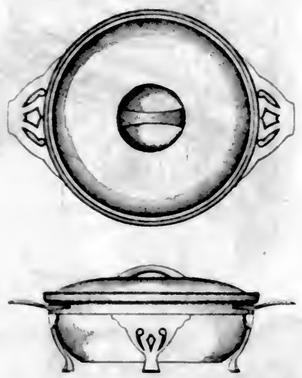
The ornamental design for a necktie, as shown.

75,875. COAL AND WOOD RANGE. JOSEPH HERMAN SANDELL, Chicago, Ill., assignor to Comstock-Castle Stove Company, Quincy, Ill., a Corporation of Illinois. Filed Feb. 11, 1927. Serial No. 20,704. Term of patent 14 years.



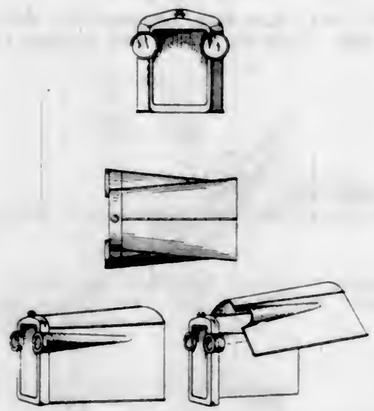
The ornamental design for a coal and wood range, as shown.

75,876. COMBINED CASSEROLE AND BAND. HOWARD H. SCHOTT, Rochester, N. Y., assignor to Robeson-Rochester Corporation, Rochester, N. Y., a Corporation of New York. Filed Mar. 28, 1928. Serial No. 26,040. Term of patent 7 years.



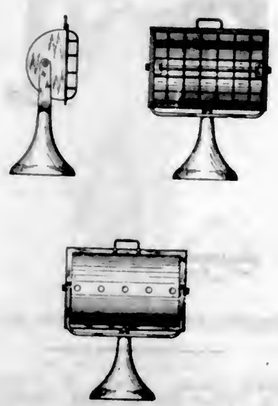
The ornamental design for a combined casserole and band, as shown.

75,877. COMBINED RADIATOR, LAMP CASING, AND HOOD FOR MOTOR VEHICLES. ERIC G. SHALKHAUSER, Peoria, Ill. Filed May 19, 1927. Serial No. 22,102. Term of patent 7 years.



The ornamental design for a combined radiator, lamp-casing, and hood for motor vehicles, as shown.

75,878. ELECTRICAL HEATING APPLIANCE. BYRON G. TARKINGTON, Shorewood, and OTTO F. WINSINGER, Milwaukee, Wis., assignors to American Resistor Corporation, Philadelphia, Pa., a Corporation of New York. Filed Jan. 10, 1927. Serial No. 20,329. Term of patent 7 years.



The ornamental design for an electrical heating appliance, as shown.

75,879. RADIANT GAS HEATER. AUGUSTUS F. THOMPSON, Huntington, W. Va. Filed May 12, 1928. Serial No. 26,652. Term of patent 7 years.



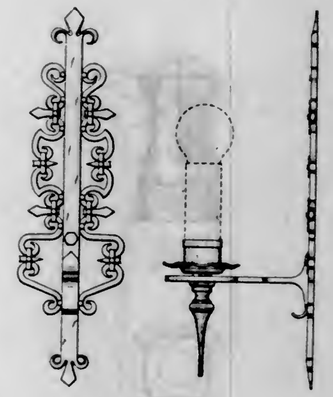
The ornamental design for a radiant gas-heater, as shown.

75,880. TEXTILE FABRIC. HENRY F. TIEDEMANN, New York, N. Y., assignor to Theo. Tiedemann & Sons, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 12, 1928. Serial No. 26,299. Term of patent 7 years.



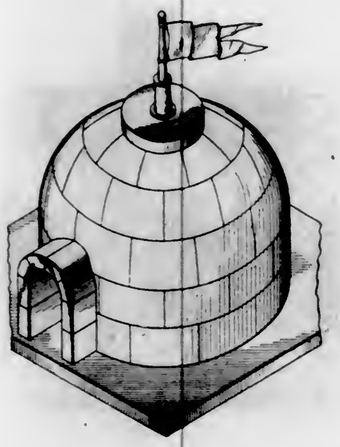
The ornamental design for a textile fabric, as shown.

75,881. WALL-BRACKET LIGHTING FIXTURE. ANDREW TUCKER, Fairfield, Conn. Filed Sept. 20, 1927. Serial No. 23,470. Term of patent 3½ years.



The ornamental design for a wall bracket lighting fixture, subsantially as shown.

75,882. REFRIGERATOR. CLEM F. WADE, Evanston, Ill. Filed Sept. 13, 1926. Serial No. 19,052. Term of patent 3½ years.



The ornamental design for a refrigerator as shown.

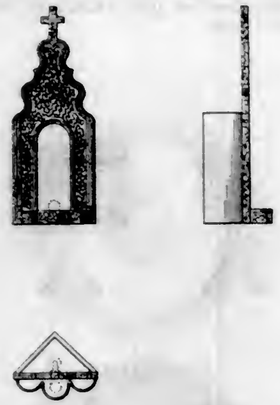
75,883. PEDESTAL. RALPH WAGGONER, Los Angeles, Calif., assignor to Marbelite Corporation of America, Los Angeles, Calif., a Corporation of Delaware. Filed Feb. 13, 1928. Serial No. 25,431. Term of patent 14 years.





An ornamental design for a pedestal, substantially as shown.

75,884. SHRINE. EDWARD JOSEPH WEES, Omaha, Nebr. Filed Apr. 25, 1928. Serial No. 26,460. Term of patent 7 years.



The ornamental design for a shrine, as shown.

75,885. BIRD CAGE. HYMAN D. WEISSBERG, New York, N. Y. Filed Feb. 16, 1928. Serial No. 25,454. Term of patent 3½ years.



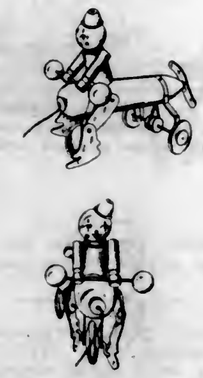
The ornamental design for a bird cage, as shown.

75,886. WALL-PAPER BORDER. CHARLES W. WESTON, Pampa, Tex., assignor of one-fourth to Zach Wilson, Hidalgo County, Tex., and one-half to F. E. Osborn, F. B. Freeland, and Gordon Griffin, McAllen, Tex. Filed June 3, 1927. Serial No. 22,307. Term of patent 3½ years.



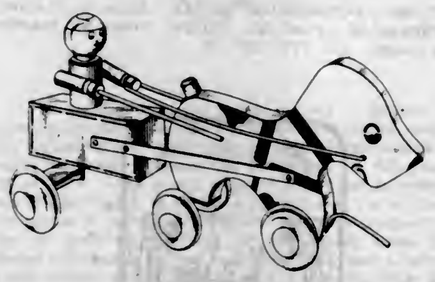
The ornamental design for a wall paper border, as shown.

75,887. WHEEL-BEARING FIGURE TOY. CLARE A. WETZELL, Sterling, Ill. Filed Mar. 27, 1928. Serial No. 26,031. Term of patent 3½ years.



The ornamental design for a wheel bearing figure toy as shown.

75,888. WHEEL-BEARING FIGURE TOY. CLARE A. WETZELL, Sterling, Ill. Filed Mar. 27, 1928. Serial No. 26,035. Term of patent 3½ years.



The ornamental design for a wheel bearing figure toy as shown.

75,889. LAMP. WILLIAM A. WINSBORO, Los Angeles, Calif., assignor to Josephine A. Greathouse. Filed Aug. 3, 1927. Serial No. 22,987. Term of patent 3½ years.



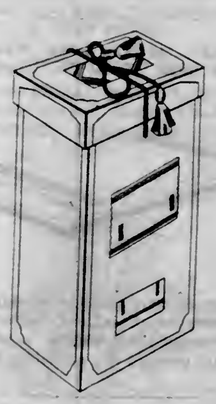
The ornamental design for a lamp, as shown.

75,890. LAMP STANDARD. HERMAN H. WOLTER, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a Corporation of Connecticut. Filed May 17, 1928. Serial No. 26,728. Term of patent 3½ years.



The ornamental design for a lamp standard, as shown.

75,891. SHOE BOX. MORRIS WOLOCK, Chicago, Ill. Filed May 18, 1928. Serial No. 26,742. Term of patent 7 years.

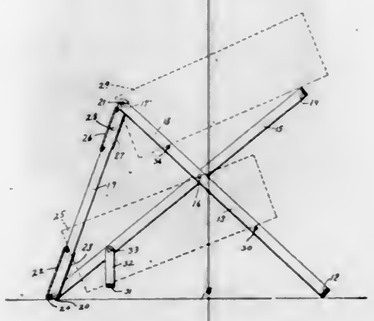


An ornamental design for a shoe box, as shown.

PATENTS

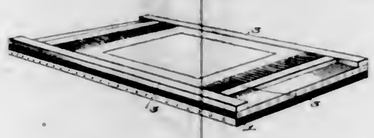
GRANTED JULY 24, 1928.

1,677,880. FOLDING DISPLAY STAND. WILLIAM H. AVERILL, Boston, Mass., assignor to Joseph Pollak Tool and Stamping Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 25, 1928. Serial No. 272,744. 4 Claims. (Cl. 211—130.)



2. A folding display stand comprising a locking bow, a companion bow, pivots connecting the crossed arms of said bows, the outer ends of the arms of the locking bow being resilient and provided with outwardly projecting locking studs, and rigidly connected struts pivoted to the outer ends of the arms of the companion bow, and provided at their swinging ends with orifices formed to receive the locking studs, the arrangement being such that when the studs are in the orifices, the stand is maintained in an erected position, the studs being yieldingly held in the orifices by the resilience of the arms, to maintain the erection of the stand, and adapted to be withdrawn from the orifices to permit the folding of the stand.

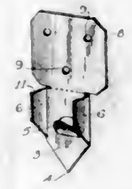
1,677,881. MOLD. ADRIAN BAISH, Wadsworth, Ohio. Filed May 13, 1925. Serial No. 30,095. 8 Claims. (Cl. 18—47.)



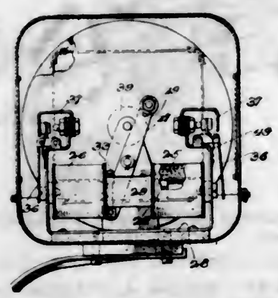
1. A composition mold facing consisting of rubber, sulphur, an accelerator or sulphur carrier, comprising a zinc salt of dimethyldithiocarbomic acid and a small amount of methyl mustard oil, a filler and lightener, and a drier.

1,677,882. SLEEPER ANCHOR. GEORGE B. BOSCO, Chicago, Ill. Filed Jan. 19, 1928. Serial No. 247,892. 6 Claims. (Cl. 72—101.)

4. A sheet metal sleeper anchor comprising a prong adapted to be driven into a support, a lug struck out from the plane of said prong for securing the anchor against removal from the support, and a substantially flat bearing plate on one end of said prong normally located substantially in the plane of said prong for attachment to a sleeper, said bearing plate being adapted to be bent at substantially right angles to said prong to provide a head for engaging the surface of the support to limit the inward movement of said prong.



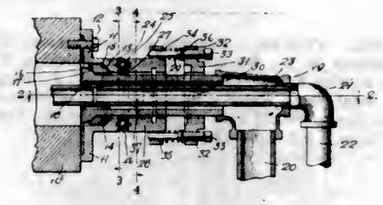
1,677,883. AUTOMOBILE SIGNAL. EINAR F. CARLSEN, Chicago, Ill. Filed Jan. 5, 1924. Serial No. 684,620. 3 Claims. (Cl. 177—327.)



1. A signal of the character specified comprising alined magnetic coils, a core received in said coils, a bracket supporting said coils, contact levers connected intermediate their ends to the upper portions of said brackets and having free terminal portions arranged in the field of magnetic force of said coils, and U-shaped contact members carried by said upper portions of the bracket and having terminal portions extended downwardly and arranged at opposite sides of and in the path of travel of said contact levers.

1,677,884. JOINT PACKING. JAMES A. CONNELLY, Hamilton, Ohio. Filed May 4, 1925. Serial No. 27,778. 6 Claims. (Cl. 285—10.)

1. A packing box for a pressure chamber comprising a rotating member, and a stationary member, a metallic packing between and having curved surfaces cooperating with correspondingly shaped metallic surfaces of the rotating and stationary members, the metallic packing having an opening, one of the members having an enlarged portion greater in size than the coacting opening in the packing, the packing having a portion greater in size than a coacting opening in the other member, so that



the pressure within the pressure chamber will tend to force the coacting surfaces together to form a tight joint.

1,677,885. TELEGRAPHIC AND TELEPHONIC RECEIVING CIRCUITS. CHARLES KINGSLEY CHANDLER, of the Headquarters of the Royal Air Force, India. Filed Aug. 15, 1925, Serial No. 50,492, and in Great Britain Sept. 3, 1924. 4 Claims. (Cl. 250—20.)



1. In a signal receiving system having a collector circuit for incoming signals and a detector circuit, means for balancing out oscillations in said circuit caused by static and other disturbances comprising an unbalanced Wheatstone bridge in said collector circuit having variable reactances in each of its arms and adjusted for minimum impedance at a frequency different from the frequency of the incoming signals, said detector circuit being connected across one pair of conjugate arms, and a pair of tuned circuits connected in parallel across the other pair of conjugate arms, one of said tuned circuits being adjusted to offer high impedance at the signal frequency, the other tuned circuit being adjusted to cause the combined circuit to be resonant to the signal frequency.

1,677,886. VARIABLE RESISTANCE. EDWIN C. BALLMAN, St. Louis, Mo., assignor to Valley Electric Company, St. Louis, Mo., a Corporation of Delaware. Filed Feb. 10, 1923. Serial No. 618,259. 4 Claims. (Cl. 201—56.)



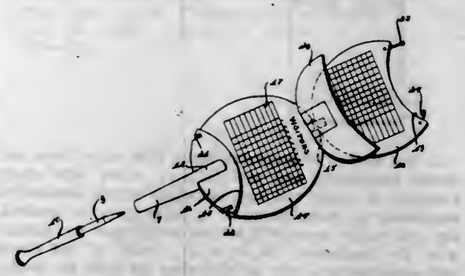
1. An electrical resistance unit comprising a helically grooved barrel, a resistance conductor wound in said groove, a movable contact collar surrounding said barrel and punched to provide a plurality of rounded interior projections spaced one from the other and adapted to contact with adjacent turns of said conductor and be guided thereby.

1,677,887. WATER TUBE FOR FURNACE WALLS. HENRY B. BRADFORD, Wilmington, Del., assignor to Edge Moor Iron Company, Edge Moor, Del., a Corporation of Delaware. Filed Oct. 19, 1926. Serial No. 142,757. 1 Claim. (Cl. 122—6.)



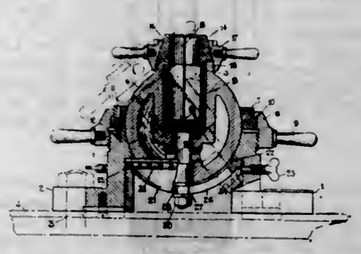
Water tubes for application to the inside of a furnace wall having a row of threaded nuts welded to them and adapted to receive clamping bolts.

1,677,888. COMBINATION FAN. CLARENCE A. CONNORS, Detroit, Mich., assignor of one-third to Frank McKnight, Detroit, Mich. Filed June 20, 1927. Serial No. 200,049. 7 Claims. (Cl. 230—266.)



1. A fan of the class described, comprising: a handle; a fan body mounted on said handle; a cooperating fan body swingably mounted on said first mentioned fan body and adapted for folding into engagement with either face of said fan body; and means for securing said fan bodies in fixed relation in either position.

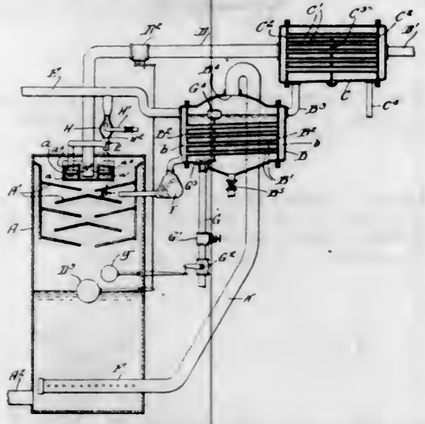
1,677,889. UNIVERSAL MACHINE-SHOP FIXTURE. EMIL GAIRING, Detroit, Mich. Filed Dec. 13, 1924. Serial No. 755,653. 4 Claims. (Cl. 96—59.)



1. In a universal machine shop fixture comprising a chuck or work holder having a ball portion, a mounting for said holder having a spherical seat for said ball por-

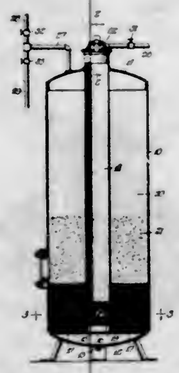
tion, means engaging the mounting for clamping the ball portion upon said seat, a plate carried by the mounting and rotative about a fixed axis, means carried by the mounting for holding the plate stationary in any position of its rotation and means engaging said plate for holding the ball portion of the holder in any position of tilting of the holder about said axis.

1,677,890. HEATING, DEAERATING, AND EVAPORATING WATER. GEORGE H. GIBSON, Montclair, N. J., assignor to Cochrane Corporation, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 21, 1922. Serial No. 555,923. 14 Claims. (Cl. 183—2.5.)



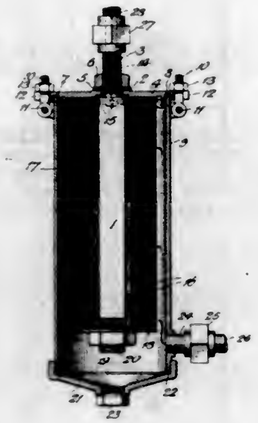
2. The method of preparing boiler feed water from condenser condensate and raw make-up water with steam available at hight and low pressures which consists in vaporizing the make-up water in an evaporator, condensing the vapor generated in the evaporator by contact with the condensate in a water heater of the steam and water contact type, withdrawing air from the heater by a steam ejector supplied with steam at high pressure, and heating the evaporator with the exhaust from the ejector and the low pressure steam.

1,677,891. WATER-SOFTENING APPARATUS. WALTER H. GREEN, Chicago, Ill., assignor to General Zeolite Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 21, 1926. Serial No. 130,755. 9 Claims. (Cl. 210—24.)



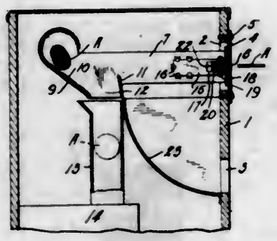
1. Zeolite water softening apparatus comprising a casing having a central cylindrical member, said member having a perforated bottom and a removable cover and being adapted to hold salt for regenerative purposes, a fresh water inlet discharging into the cylindrical member, and zeolites disposed in the annular chamber between the walls of the casing and the member.

1,677,892. FILTER. FREDERICK D. HERBERT, Upper Montclair, N. Y.; WALDO L. KRAEMER, Brooklyn, N. Y.; and JOSEPH E. GARABRANT, Bloomfield, N. J., assignors to Metal Edge Filter Corporation, a Corporation of New Jersey. Filed June 13, 1924. Serial No. 719,695. 5 Claims. (Cl. 210—183.)



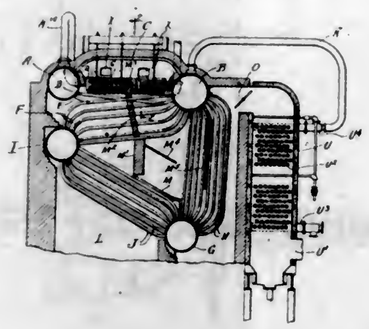
5. In a filter for edge filtration, a spindle, a plurality of filter elements of sheet metal, each element having upon a face thereof an adherent spacing layer of electrodeposited non-fibrous material.

1,677,893. COIN-CONTROLLED MECHANISM. HARRY B. HILTZ, New York, N. Y., assignor, by mesne assignments, to Auto-Sales Corporation, Long Island City, N. Y., a Corporation of New York. Filed Nov. 15, 1924. Serial No. 750,076. 2 Claims. (Cl. 194—97.)



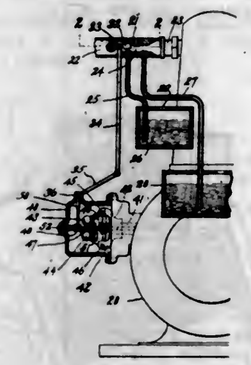
1. A coin control comprising a coin insertion element, guiding means disposed horizontally and extending from the coin insertion element, coin intercepting elements carried by the guiding means, means for propelling a coin of predetermined character between the guiding means and a partition extending downward from one of the coin intercepting means.

1,677,894. SUPERHEATER BOILER. WALTER FRANCIS KEENAN, Jr., Pelham, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 31, 1924. Serial No. 703,061. 3 Claims. (Cl. 122—478.)



1. In a superheater boiler, the combination with horizontally disposed U-shaped superheater elements, of a housing wall comprising a pair of metal walls through which the ends of the elements extend, each formed in sections, one for each of said elements, and insulating material between said walls.

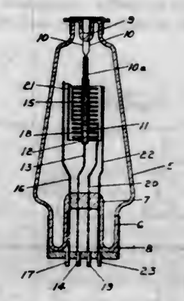
1,677,895. FUEL-SUPPLY SYSTEM. LESTER S. KEILHOLTZ, Dayton, Ohio, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Aug. 8, 1918. Serial No. 249,002. 4 Claims. (Cl. 123—127.)



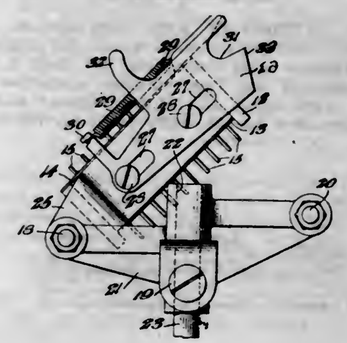
1. In a fuel supply device, the combination with an engine having a mixing chamber; of a conduit for delivering priming fuel to the engine from a fuel level below the mixing chamber; of a conduit for delivering running fuel to the engine from a fuel level below the mixing chamber; and means responsive to engine speed for arresting the delivery of priming fuel to the engine at a predetermined engine speed, said second-mentioned conduit being open continuously during the operation of the engine.

1,677,896. RADIOTUBE AND METHOD OF OPERATING SAME. EARL L. KOCH, Pittsburgh, Pa., assignor to Frederick S. McCullough, Wilkinsburg, Pa. Filed Apr. 25, 1925. Serial No. 25,903. 11 Claims. (Cl. 250—27.5.)

1. A thermionic tube having an anode, a cathode, a looped resistance heater for the cathode, a helical control electrode, and a helical auxiliary control electrode adjacent one end of the cathode and adjacent the end of the first control electrode, said helical electrodes consisting of different numbers of turns of substantially the same diameter.



1,677,897. ANALYZER UNIT FOR TABULATING MACHINES. WILLIAM W. LASKER, Brooklyn, N. Y., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 29, 1925. Serial No. 26,686. 1 Claim. (Cl. 235—58.)

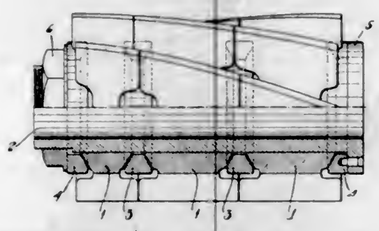


In a device of the character stated, an analyzing unit, a support frame for said unit including two spaced rods, apertured ears secured to one side of said unit and mounted on one of said rods for movement relative thereto, keepers respectively mounted on opposite ends of said unit, means on said keepers for respectively interlocking with the other of said rods to lock said unit in analyzing position, springs holding said keepers respectively in locked position, and means manually engageable at will for releasing said keepers to swing said unit out of operative position.

1,677,898. PLANING CUTTER. JOHAN OSCAR LIFLANDER, Stockholm, Sweden, assignor to J. & C. G. Bolinders Mek. Verkstads Aktiebolag, Stockholm, Sweden, a Corporation. Filed Jan. 27, 1925. Serial No. 5,121, and in Sweden Feb. 7, 1924. 1 Claim. (Cl. 144—233.)

A rotary planing cutter comprising a plurality of annular sections mounted on a shaft, the adjacent surfaces of said sections being recessed to form inwardly

tapering annular spaces of approximately trapezoidal cross section between the sections, annular locking members fitting in said spaces and having surfaces engaging said adjacent surfaces of the sections, the surfaces of said locking members being roughened to enable the locking members to securely grip said adjacent surfaces,



each of said sections being provided with longitudinally extending blade portions of greater width than the remainder of the section, the blade portions of the several sections being adapted to be aligned with each other when the cutter is assembled, to form substantially continuous cutting blades, and means exerting axial pressure on said sections.

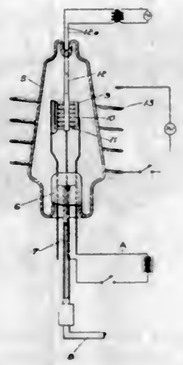
1,677,899. AUTOMATIC STOP MECHANISM FOR LOOMS. JONATHAN LUCAS, Savannah, Ga., assignor to Lucas-Lamborn Loom Corporation, New York, N. Y., a Corporation of New York. Original application filed May 7, 1924, Serial No. 711,581. Divided and this application filed Feb. 15, 1927. Serial No. 168,255. 3 Claims. (Cl. 139—370.)



1. In a loom including an electric controlling circuit, the combination of harness whereby a shed of warp threads is provided, a travelling shuttle carrying a supply of filler thread, means for passing said shuttle through said shed to place the filler thread in position, a lever on said shuttle, clamping means on said lever whereby the latter is connected with said filler thread and is held in an inoperative position as long as said filler thread is under tension, said lever assuming an operative position when the filler thread breaks, and switching means adapted to be acted upon directly by said lever when in its operative position to break the electric circuit and stop the loom.

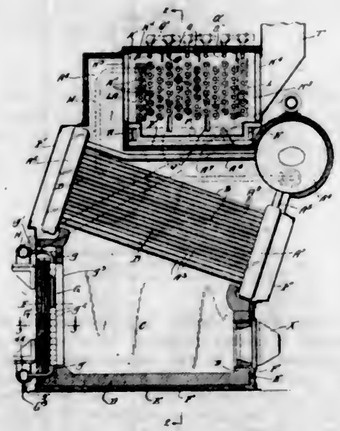
1,677,900. METHOD OF DEGASIFYING RADIOTUBES. FREDERICK S. MCCULLOUGH, Wilkinsburg, Pa. Filed May 6, 1925. Serial No. 28,340. 3 Claims. (Cl. 250—27.5.)

1. A method of de-gasifying electron tubes having low temperature high emission sheet metal cathodes which includes the steps of connecting the tube in a pumping system, baking the tube, heating the cathode by energizing its heater from a source of alternating current, applying an oscillating field to the tube while the cathode remains heated, shutting off the oscillating field, applying a plate



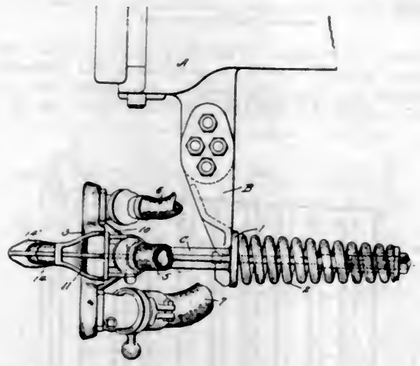
voltage to the tube while the cathode remains heated, and after the oscillating field has been shut down, and then sealing off the tube.

1,677,901. MARINE STEAM-GENERATING UNIT. JOSEPH JOHN NELIS, Brooklyn, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a Corporation of New York. Filed May 10, 1923. Serial No. 637,997. 11 Claims. (Cl. 122—477.)



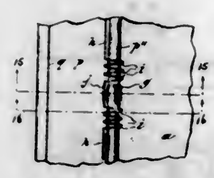
1. A marine boiler comprising a combustion chamber, a bank of water tubes above said combustion chamber, upper and lower headers connected to said tubes, a steam and water drum above said lower header and extending transversely to said tubes, tube connections between said drum and headers, a radiant heat superheater incorporated in a wall of said combustion chamber and adapted to absorb radiant heat from the other walls of said chamber and an economizer located above said water tubes and the tube connections between the upper header and drum.

1,677,902. AUTOMATIC TRAIN-PIPE CONNECTER. JOSEPH ROBINSON, Morristown, N. J. Filed Oct. 18, 1921. Serial No. 508,583. 16 Claims. (Cl. 285—24.)



1. In a train pipe connecter, mating coupling devices, having normally engaging, non-oscillatory, central bearing surfaces, each comprising funnel and pin members at opposite sides of said bearing surfaces, the pin member having a centering head, and the funnel member having a socket element continuing from its body portion and adapted to receive the centering head of a mating pin member, the head and socket element forming the sole bearing of the pin member on the funnel member when coupling members are coupled, and said bearing being sufficiently extended to counteract any tendency of the coupling members to rock upon one another when coupled.

1,677,903. GARMENT-FASTENER MEANS. LEO ROSEMAN, Newark, N. J. Filed July 1, 1926. Serial No 119,851. 7 Claims. (Cl. 2—265.)



1. A fastening means for separable engagement with opposed hook fastener devices of a garment or other closure, comprising in combination with one marginal portion of the closure a pocket forming strip applied thereupon to project inwardly from the free edge thereof means to form an enlarged reenforced lip coincident with the inner rearward free edge of said strip, and means to interruptedly secure the inner rearward edge of said strip to such marginal portion to form at the points of interruption rearwardly open hook-bill receiving pockets entering under said edge and beneath said strip.

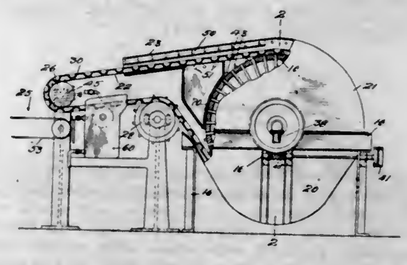
1,677,904. GARMENT-FASTENER TAPE. LEO ROSEMAN, Newark, N. J. Filed Apr. 1, 1927. Serial No. 180,115. 1 Claim. (Cl. 2—265.)

In a fastener tape for garments, a tape body, a cover strip disposed in overlying relation to and upon the rearward portion of said tape body, fasteners disposed between said tape body and cover strip with their operative ends projecting exteriorly beyond the forward edge of said cover strip, stitching joining said forward edge of said cover strip and tape body and transversing said fasteners, said stitching including at each side of each fastener outwardly extending transverse bar stitches extending across said forward edge of said cover-strip, and the rearward free portion of said cover-strip being initially folded outwardly from said stitching to expose the garment receiving portions of said tape body, the fold edge of



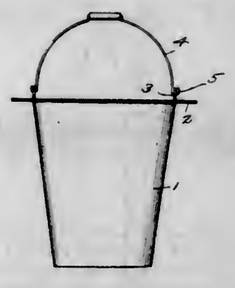
the thus disposed cover-strip being adapted to serve as a guiding abutment against which a garment may be aligned and stopped during the operation of applying said fastener tape thereto, said cover-strip being further adapted to be turned rearwardly and over upon the applied garment edge-portion.

1,677,905. CONTINUOUS PROCESS APPARATUS FOR FORMING ARTICLES FROM PULP. ORANGE J. SALISBURY, Salt Lake City, Utah. Original application filed Sept. 13, 1921, Serial No. 500,300. Divided and this application filed July 24, 1923. Serial No. 653,409. 9 Claims. (Cl. 92—43.)



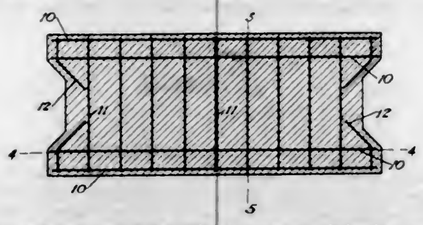
1. In a pulp forming and moulding apparatus, a suction drum and a mould carrying belt, said belt adapted to make tight contact with said drum and to transmit suction therefrom to the aforesaid moulds.

1,677,906. PAIL. GEORGE W. SMITH, Forbes, N. Dak. Filed Jan. 12, 1927. Serial No. 160,701. 2 Claims. (Cl. 31—54.)



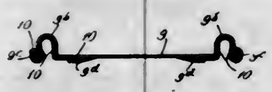
1. As a new article of manufacture, a pail comprising a body having a substantially wide annular rim formed upon the upper edge thereof, a plurality of ears struck from said rim and extending substantially in line with the walls of the pail, and a handle having its ends extending through said ears for constituting a carrier for said pail.

1,677,907. WEIGHT-SUPPORTING TILE. NEAL D. SMITH, Chicago, Ill., assignor to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 4, 1922. Serial No. 592,285. 6 Claims. (Cl. 72—68.)



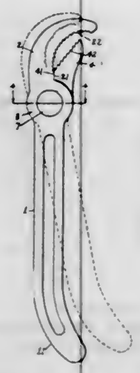
6. In a reinforced flat tile, groups of reinforcing rods rectangularly spaced and extending lengthwise thereof adjacent the opposite faces at the sides, and transverse reinforcing rods extending around and connected to the separate rods of each group to hold them rectangularly spaced apart.

1,677,908. PITMAN FOR PNEUMATIC MOTORS. FRED VOLARE, Scotch Plains, N. J., assignor to The Aeolian Company, a Corporation of Connecticut. Original application filed Oct. 26, 1923, Serial No. 670,887. Divided and this application filed June 11, 1926. Serial No. 115,259. 3 Claims. (Cl. 74—17.)



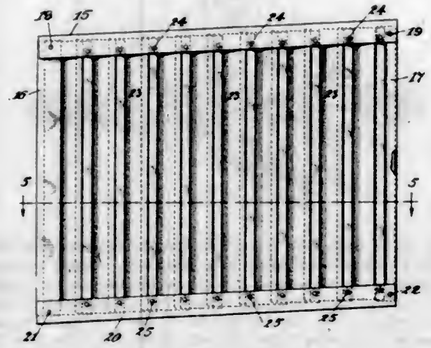
1. A pitman for connecting the crank shaft of a pneumatic motor with an elongated round cross-sectioned part on the related slide valve of said motor, said pitman consisting of a strip of spring-metal provided with bent-up, substantially U-shaped ends whose sides extend transversely to the body portion of said strip, said U-shaped ends being adapted in size and shape to be sprung over the crank shaft and said round cross-sectioned part and to be retained in place thereon by the resilience of the sides of said U-shaped ends.

1,677,909. WRENCH. BENJAMIN ORRIN WADE, White Pigeon, Mich. Filed Oct. 16, 1925. Serial No. 62,770. 3 Claims. (Cl. 81—80.)



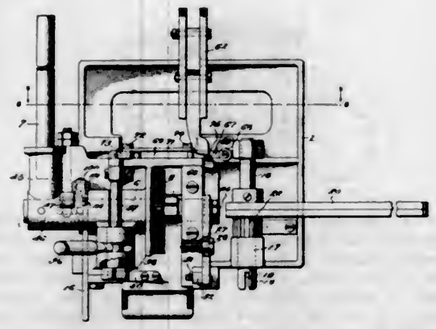
1. A wrench comprising opposed pivotal members, with parallel handle bars which are identical in form and curved to one side toward the open side of said jaws, an outwardly curved overhanging jaw with inwardly projecting teeth and a flat inner part forming a stop, and an opposed inner jaw with outwardly projecting teeth and a flat inner part forming a stop cooperating therewith, as specified.

1,677,910. FLEXIBLE VENTILATOR. CHARLES M. WILLS, Atlantic City, N. J., assignor to The American Transom Co. Inc., Philadelphia, Pa. Filed Feb. 19, 1927. Serial No. 169,526. 3 Claims. (Cl. 98—87.)



1. In a ventilator, in combination, a casing the top and bottom of which are pivotally attached to the ends thereof, and a plurality of overlapping leaves pivotally attached to the top and the bottom of the casing.

1,677,911. BOX-STRAPPING MACHINE. PARVIN WRIGHT, Chicago, Ill. Filed July 23, 1924. Serial No. 727,771. 2 Claims. (Cl. 140—93.)



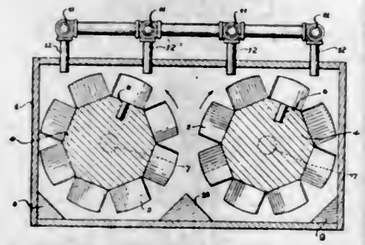
1. In a wire tying machine the combination of means for twisting two portions of a wire together after it has been trained around a box; and package engaging means to aid in forcibly moving the machine away from said twisted portions.

1,677,912. METHOD OF COOKING AND APPARATUS USED IN SUCH METHOD. ALFRED F. BARTLESON, Sodus Center, N. Y., assignor to Fruit Belt Preserving Company, East Williamson, N. Y., a Corporation of New York. Filed Dec. 10, 1927. Serial No. 239,241. 4 Claims. (Cl. 99—2.)

1. The method of cooking which consists in moving a mass bodily through a cooking chamber, simultaneously lifting the middle portion of the mass upwardly, and

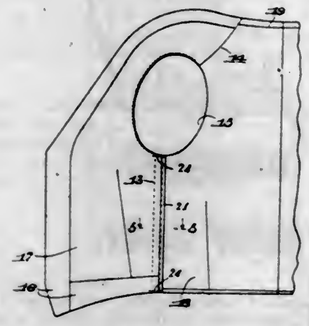
subjecting the lifted portion of the mass to jets of steam.

2. A cooking apparatus comprising a cooking chamber having an intake at one end and a discharge at the opposite end, two combined feeders and agitators rotatably mounted in the cooking chamber to feed the mass



from the intake to the discharge, means driving said feeders and agitators in opposite directions with their adjacent portions moving upwardly to lift the central portion of the mass, and means providing steam jets discharging on the lifted portion of the mass.

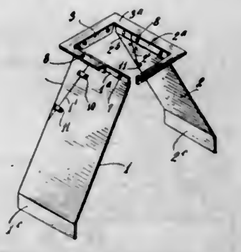
1,677,913. VEST. FRANK A. BIEBERSTEIN, Milwaukee, Wis. Filed Sept. 22, 1926. Serial No. 137,006. 2 Claims. (Cl. 2—102.)



1. In a vest, the combination of front and back vest portions secured at their meeting edges to form a flap extending between the arm hole and the lower edge of the vest, a length of piping covering the longitudinal edge of said flap and having its ends reversely turned at the ends of said flap for disposition between the flap and one of said vest portions, a line of stitching joining said front and back portions to form a side seam and defining the inner edge of said flap, and stitched tackings at the end portions of said flap securing said flap against one of said vest portions and passing through the reversely turned ends of said piping interposed between said flap and the adjacent vest portion.

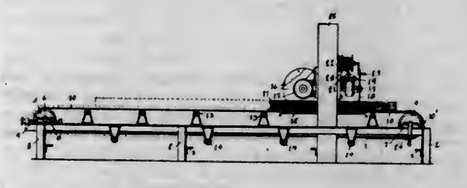
1,677,914. SMOKE-CHAMBER LINING. JAMES D. COVERT, Montclair, N. J. Filed Jan. 26, 1927. Serial No. 163,627. 2 Claims. (Cl. 72—94.)

1. A fireplace smoke chamber lining comprising a collar having greater length than width, a pair of plates adapted to be secured thereto at the upper ends, the collar being arranged to register with a chimney flue with the plates diverging downwardly from the collar, the plates being provided with detachable sections at the upper portions along corresponding edges, and means for detachably securing the sections to the plates, whereby



the plates and sections may be secured to the greater length of the collar and the plates without the sections may be secured to the lesser width of the collar.

1,677,915. SLITTING MACHINE. FRANK G. CRANE, Montague, Mich., assignor of one-half to Detroit Sulphite Pulp & Paper Co., Detroit, Mich. Filed Nov. 7, 1927. Serial No. 231,582. 7 Claims. (Cl. 164—61.)



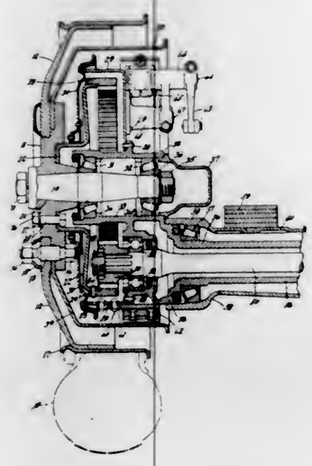
6. In a machine of the class described, the combination of conveyer apron supporting and driving means, a conveyor apron having a pile-like work supporting face, and a driven rotary cutter positioned relative to said apron so that its periphery extends into the pile but is spaced from the body of the apron.

1,677,916. PRESS FOR THE QUICK DRYING AND GLAZING OF PHOTOGRAPHIC PRINTS. LÉON CRAYSSAC, Cette, France. Filed Aug. 20, 1927, Serial No. 214,391, and in Germany Aug. 26, 1926. 3 Claims. (Cl. 34—17.)



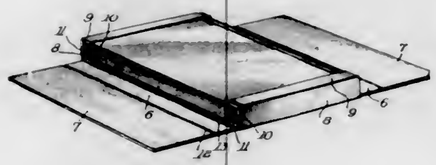
1. A device of the character described, comprising in combination, a frame having in its top surface a pair of parallel marginal grooves disposed at opposite edges thereof, an upwardly curved sheet-metal plate secured to said frame between said grooves, a sheet of fabric stretched over said plate and grooves and secured to opposite edges of the frame, a frame hinged to said first frame at one edge thereof and having a pair of beads adapted to fit into said marginal grooves, a sheet of fabric stretched on said second frame, and means for fastening said frames together at the edge opposite said hinged edge.

1,677,917. MOTOR-VEHICLE CONSTRUCTION. DAVID F. DOMIZI, Cleveland, Ohio, assignor, by mesne assignments, to Relay Motor Products Corporation, Bridgeport, Conn., a Corporation of Delaware. Filed Jan. 7, 1927. Serial No. 159,597. 6 Claims. (Cl. 180—10.)



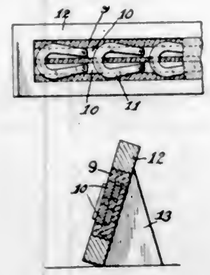
1. In combination, a wheel having a spindle, a dust cap for one end of said spindle, an axle housing swingable about said spindle, and means on said housing adapted to strike said cap to prevent complete rotation of the axle housing about the spindle.

1,677,918. SHIPPING BOX FOR ARTICLES. CLARENCE P. GALLISTEL, Chicago, Ill., assignor to Mid-West Box Company, Chicago, Ill., a Corporation of Indiana. Filed June 17, 1925. Serial No. 37,617. 2 Claims. (Cl. 229—87.)



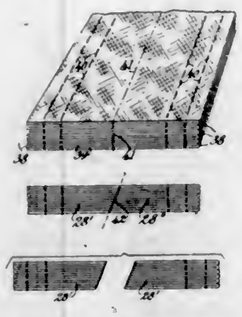
1. A shipping case for a book or similar article consisting of a single sheet of paper board and comprising a rectangular member adapted to enclose one side of the book, a pair of flaps connected to the side margins of the member and adapted to be secured and folded together to enclose the front and back and the other side of the book, and a pair of flaps connected to the bottom and top margins of said member and adapted to space the side forming portions apart and be folded to enclose and form hollow engagement-cushions for the top and bottom of said book, each of said last mentioned flaps being provided with portions adapted to be folded to form inner and outer walls, a connecting wall between the inner and outer walls and adapted to underlie the side forming portions of said first mentioned flaps, and a spacing wall between said inner and outer walls, the flaps being creased so that their several portions will fold correctly into operative position.

1,677,919. INTERCHANGEABLE SIGN OR BULLETIN BOARD. CHRISTIAN HANSEN, Woodcliff, N. J. Filed Nov. 11, 1927. Serial No. 232,502. 5 Claims. (Cl. 40—142.)



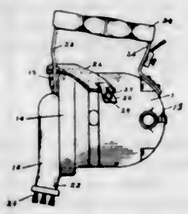
1. In a sign, a plate of non-magnetic material, strips of magnetizable material inlaid in the plate in spaced and parallel relation, and magnets arranged with the poles in parallel and having one pole in contact with one strip and the other pole with another strip.

1,677,920. METHOD OF MAKING BRUSHES. CECIL R. HUBBARD, Newark, N. Y., assignor to The Garlock Packing Company, Palmyra, N. Y., a Corporation of New York. Filed June 11, 1927. Serial No. 198,076. 9 Claims. (Cl. 300—21.)



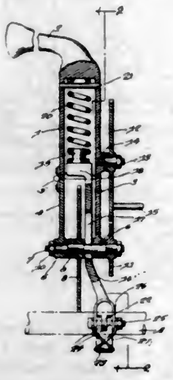
1. The method of making brushes, which consists in folding sheet material into a structure having a plurality of superimposed layers and having folds along two margins, securing said layers together, and severing the structure intermediate said folded margins.

1,677,921. VACUUM CLEANER. JULES K. JOHNSON, Pittsburgh, Pa. Filed July 16, 1925. Serial No. 44,032. 2 Claims. (Cl. 15—16.)



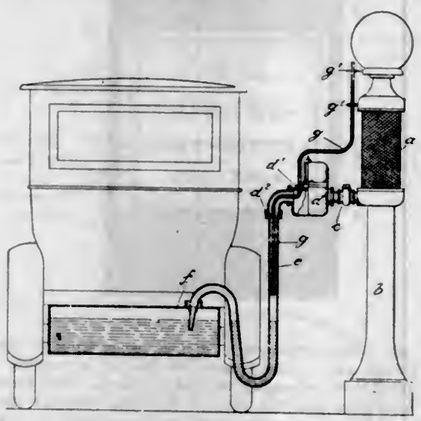
1. In a vacuum cleaner, a casing, a dust bag connected therewith and adapted to be folded and placed in folded condition against the casing, and cooperable elements on said bag and casing to engage one another when the bag is folded and placed against the casing to hold the bag in such position.

1,677,922. HAND-OPERATED CUTTING IMPLEMENT. JOHN KASZTELER, Chicago, Ill. Filed Apr. 8, 1927. Serial No. 182,083. 4 Claims. (Cl. 20—75.)



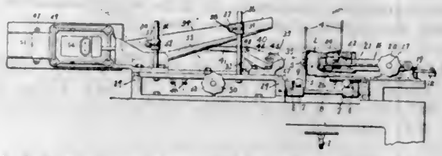
4. In a device of the class described, a body member having a handle at one end, spaced supporting arms at the other end, a shaft removably mounted in the outer ends of said arms, a cutting implement carried by said arm, means for rotating said shaft, and means for engaging the work being operated upon, including an arm formed with a slot to receive the shaft, a spring connecting the inner end of the arm to the inner end of the hollow portion of the body and a spring actuated clamping jaw for clamping the work to the outer end of said arm.

1,677,923. GASOLINE FILLING STATION AND THE LIKE. WILLIAM L. MARDEN New York, N. Y., assignor to Neptune Meter Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 10, 1927. Serial No. 160,102. 1 Claim. (Cl. 221—99.)



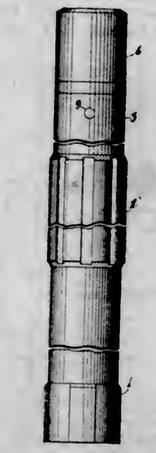
In an apparatus of the character described, the combination of an elevated source of liquid supply, a gravity delivery hose leading therefrom of such length that a portion thereof may extend below the delivery end, and a vent pipe having its lower end in operative connection with the delivery hose at a point a substantial distance below the inlet end of the hose and having its upper end above the level of the source of supply.

1,677,924. WRAPPING MACHINE. HOWARD H. METCALF, Battle Creek, Mich., assignor to Battle Creek Bread Wrapping Machine Co., Battle Creek, Mich. Filed Aug. 3, 1925. Serial No. 47,822. 15 Claims. (Cl. (93—2.)



1. In a structure of the class described, the combination of a feed plunger, a wrapping conveyor means to which said plunger delivers, downwardly curved wrapper draping members disposed on opposite sides of the path of said feed plunger, slide rods on which said draping members are slidably mounted for adjustment relative to each other, a folder carriage, a front bottom folder mounted on said carriage, front end flap folders provided with vertically adjustable sections, means for adjustably supporting said front end flap folders on said carriage comprising a supporting rod on which they are slidably mounted and a coacting reversely threaded rod, a folder way comprising slidably mounted outer sections, a reversely threaded rod for adjusting said sections relative to each other, rear end flap folders, rearwardly projecting creasing fingers mounted on said rear end flap folders and comprising adjustably connected front and rear sections, the front sections being adjustably mounted on said rear end flap folders, bottom flap folders having forwardly inclined edges disposed at the rear of said rear end flap folders, top flap folders mounted for vertical and tilting adjustment in coacting relation to said creasing fingers and having rearwardly inclined outwardly flanged lower edges, said rear end, bottom and top flap folders being mounted on said way members for adjustment therewith, a bottom sealing plate, a delivery way at the rear thereof, rearwardly projecting brackets on said adjustable way members, and end sealing plates yieldably mounted on said brackets at the sides of said delivery way.

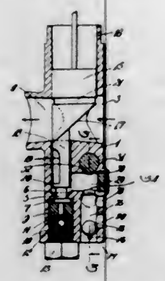
1,677,925. CORE DRILL. JOSEPH S. MITCHELL, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Nov. 5, 1923. Serial No. 672,795. 4 Claims. (Cl. 255—72.)



1. A core barrel comprising a head forming a drill rod connection and having a circumferentially extending groove formed on the periphery thereof, and a plurality of recesses, a tubular core receiving barrel member having

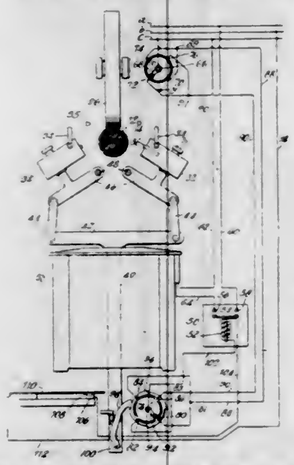
a drive fit with said head and having its extremity adjacent said head peened into said groove partially filling the latter, said barrel member having perforations in registry with said recesses, and bodies of metal in the unfilled portion of said groove and in said perforations and recesses and welded to the adjacent portions of said head and barrel member respectively.

1,677,926. CARBURETOR. MAX CYRIL MORRIS, Castlebellingham, Ireland. Filed Oct. 10, 1923, Serial No. 667,602, and in Great Britain Oct. 21, 1922. 3 Claims. (Cl. 261—44.)



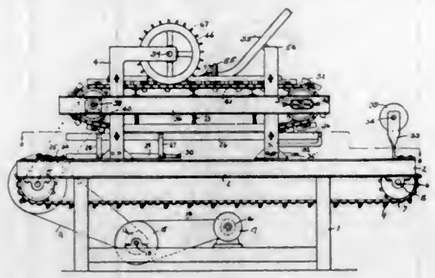
1. In a carburetor, the combination of a plunger valve movable diametrically across the main passage, said plunger valve having a circumferential groove thereon adapted to permit an inleak of air through the main passage past the said valve when the latter is in the closed position and during a small degree of opening movement thereof, and to be enclosed by the casing on continued opening movement of the said valve, a tubular member carried by the plunger valve, a well-shaped chamber formed in the casing opposite to the said valve, and a fuel nozzle disposed axially in the said well-shaped chamber, the said tubular member being adapted to reciprocate synchronously with movement of the said plunger valve loosely within the annular space between the wall of the well-shaped chamber and the fuel nozzle and being provided on the engine side thereof with a wide longitudinally disposed opening which is progressively exposed to the main passage on the engine side as the throttle valve is progressively opened.

1,677,927. CABLE-MARKING MACHINE. ALLEN D. PETTEE, Mount Vernon, N. Y. Filed Mar. 9, 1927. Serial No. 174,062. 9 Claims. (Cl. 101—18.)



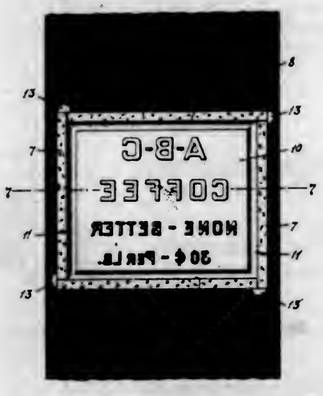
1. A machine for measuring and marking cable including a stamping head carrying a numbering device, electrically operated means for moving said head to impress a number on said cable, and a measuring wheel actuated by the movement of the cable and arranged to control the operation of the head moving means.

1,677,928. MACHINE FOR TOPPING CANS. WILLIAM LEE PHILLIPS, Houston, Tex. Filed Apr. 1927. Serial No. 182,167. 14 Claims. (Cl. 113—27.)



1. In a device of the character described, an endless conveyer for can tops, a chute to deliver tops to said conveyer, top receiving cups spaced uniformly apart on said conveyer, a rotatable frame above said conveyer, adjustable plungers on said frame positioned to fit within said cups and force said tops tightly therein, a can conveyer spaced a predetermined distance below said top conveyer, means to space and retain the cans on said can conveyer to register with said cups, and means to release said tops from said cups.

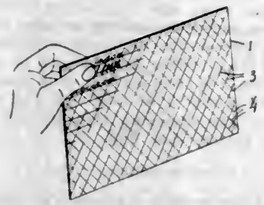
1,677,929. PRINTING IMPRESSION PLATE AND PROCESS OF MAKING SAME. WILLIS J. PIPPERT, Ridlonville, Me. Filed Jan. 28, 1927. Serial No. 164,145. 3 Claims. (Cl. 41—25.)



3. An elastic impression surface comprising a sheet of flexible and resilient material having a backing of non-stretchable screening imbedded therein, said screening providing the sole support for said resilient material and being of such length as to overlap the ends of said sheet, thereby providing means for attaching it to a printing block.

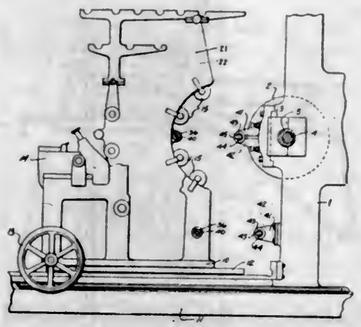
1,677,930. WRITING PAPER. HENRY G. PROSSER, Chicago, Ill., assignor to Bermingham and Prosser Co., Kalamazoo, Mich. Filed Sept. 6, 1927. Serial No. 217,672. 2 Claims. (Cl. 283—45.)

1. As an article of manufacture, a sheet of writing paper having a plurality of distinct horizontal parallel lines thereon, and a plurality of indistinct parallel diagonal lines disposed in crossing relation relative to the



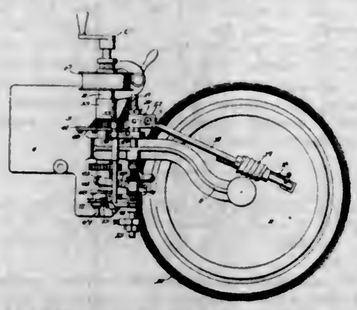
distinct lines, the indistinct lines being watermarks and becoming distinct when the sheet is supported to permit light to pass therethrough.

1,677,931. PRINTING PRESS. RALPH C. SEYMOUR, Short Hills, N. J. Filed Aug. 30, 1923, Serial No. 660,141. Renewed Jan. 24, 1928. 20 Claims. (Cl. 101—351.)



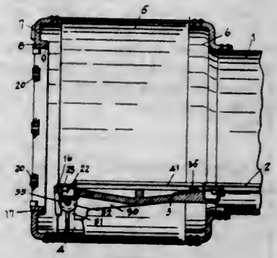
1. A printing press including in combination a form cylinder, an inking mechanism therefor, means for moving the inking mechanism into and out of operative relation with the form cylinder and means exerting a force parallel to the axis of the form cylinder for holding the inking mechanism in operative position including a plurality of clamping devices at either side of the press and means for operating said clamping devices from one side of the press.

1,677,932. SEWING MACHINE. WILLIAM J. STEERE, Rockwood, Tenn., assignor to Southern Textile Machinery Company, Paducah, Ky., a Corporation of Kentucky. Filed Dec. 15, 1923. Serial No. 680,900. 2 Claims. (Cl. 112—25.)



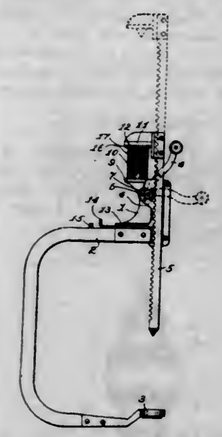
1. In a machine for uniting fabrics, the combination with a continuously rotating dial having a ring of impaling pins, a driving shaft, a curved thread needle, a supporting arm for said needle, means for oscillating said arm to carry the needle adjacent the pins, a looper, a bracket carrying said needle, means for moving said bracket laterally to impart a lateral movement to the needle during its oscillatory movement whereby the same is carried laterally while in the loops to correspond with the movement of the subjacent impaling pins, said last mentioned means being actuated from the driving shaft, and including a cam driven from the driving shaft, means connecting said cam with the bracket, and means for adjusting the cam to vary the extent of the lateral movement of said bracket.

1,677,933. GATE FOR LEERS, OVENS, AND THE LIKE. ROBERT B. STUCKEY, Bucyrus, Ohio, assignor to W. A. Riddell Company, Bucyrus, Ohio, a Corporation of Ohio. Filed Feb. 13, 1928. Serial No. 253,840. 7 Claims. (Cl. 25—133.)



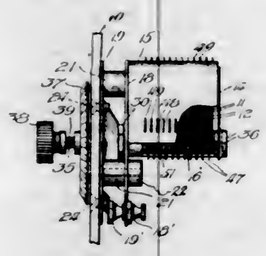
1. A gate for hardening cylinders and the like, comprising a movable gate member, means for pivotally and slidably supporting one end of the gate member and located on the inside of the cylinder, a frame for engaging the outside of the gate member, and means for drawing the gate member against the frame.

1,677,934. SPRING RECOMPRESSOR. NICHOLAS SULENTIC, Waterloo, Iowa. Filed Aug. 15, 1927. Serial No. 213,068. 2 Claims. (Cl. 29—87.1.)



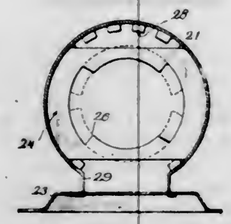
1. A spring re-compressor, comprising rigid spring engaging and clamping jaws connected to be moved to and from each other, one jaw having an upwardly projecting cylindrical boss, and the other jaw having a depending conical boss vertically alined centrally with said cylindrical boss, and said jaws being narrower than a coiled compression spring mounted between them around said bosses.

1,677,935. ADJUSTABLE ELECTRIC CONDENSER. CHESTER H. THORDARSON, Chicago, Ill. Filed Dec. 26, 1922. Serial No. 608,861. 14 Claims. (Cl. 175—41.5.)



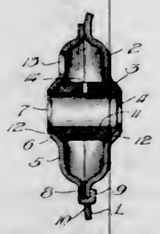
1. A variable electrical condenser, comprising stationary plates and interleaved relatively movable plates, and a curved, continuous support for the stationary plates including means integral with said support to independently space each plate on the support relatively to the other to avoid accumulative spatial error due to varying thickness of plates.

1,677,936. ELECTRIC MOTOR. CHESTER H. THORDARSON, Chicago, Ill. Filed Feb. 27, 1925. Serial No. 12,045. 2 Claims. (Cl. 172—36.)



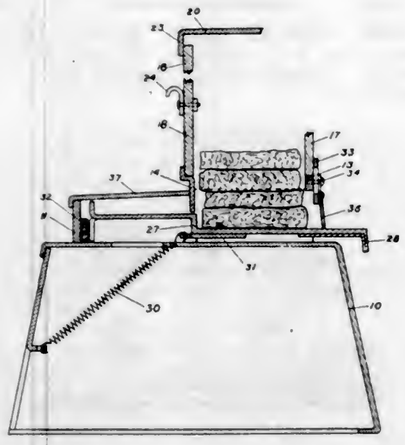
1. In an electric motor, the combination of a field magnet core and a frame comprising a ring-like member having spurs to engage on and hold the core therein, combined with a sheet metal base, and said ring member being provided with extensions adapted to extend through said base and to be clenched thereunder.

1,677,937. ADJUSTABLE BEARING STRUCTURE. CHESTER H. THORDARSON, Chicago, Ill. Original application filed Feb. 27, 1925, Serial No. 12,045. Divided and this application filed Mar. 7, 1927. Serial No. 173,499. 1 Claim. (Cl. 30—72.)



In combination, a wall having a concave recess provided with a central opening, the material of the wall immediately surrounding said opening being shaped to form a second smaller concave recess, a cup lying against said wall over said recesses, that portion of said cup opposite said recesses and the corresponding portion of said wall being symmetrical with respect to the plane separating them, said cup having a central opening registering with the opening in the wall, and a bearing sleeve arranged in the chamber between the cup and the wall and resting at its ends in the central concave recesses, said wall having holes therein in the vicinity of the periphery of said cup, and there being prongs on said cup extending through said holes and bent laterally against said wall.

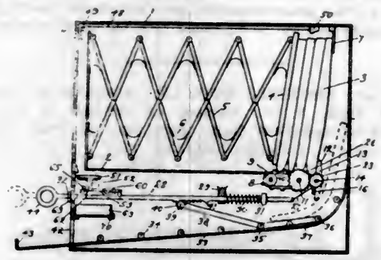
1,677,938. SERVER FOR SLICES OF BREAD AND THE LIKE. WILTON VAN SICKLE, Lincoln, Nebr. Filed June 24, 1924. Serial No. 722,101. Renewed Apr. 12, 1928. 1 Claim. (Cl. 312—67.)



In a serving machine for slices of bread and like articles, a base, a receptacle on the base for housing slices of bread in a vertical stack, a slide on the base in the lower end of the receptacle to traverse the bottom of said stack, said slide comprising a flat member offset intermediate its ends to provide a lower fore part and a raised rear part with a forwardly facing shoulder therebetween, said receptacle having a stepped rear wall providing a housing for the raised rear part of the slide, the upper part of the rear wall projecting into the housing into close proximity to the slide, said raised rear part having upwardly extending projections at its rear edge for movement in said housing between said projecting portion of the upper part of the rear wall and the lower part thereof to limit the movement of the slide, a spring between the base and the slide for normally urging the latter backwardly and holding said shoulder of the slide in registry with said projecting portion of the upper part of the rear wall of the receptacle, and means on the front wall of the receptacle adjustably spaced above the base for admitting a slice of bread of desired thickness to pass from beneath the stack on the fore part of the slide.

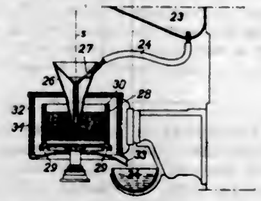
1,677,939. AUTOMATIC NEWSPAPER-VENDING MACHINE. EUGENE VINOGRADOV, New York, N. Y. Filed Mar. 24, 1927. Serial No. 177,944. 2 Claims. (Cl. 312—57.)

1. In an automatic newspaper vending machine, the combination with a housing of a means to hold a plurality of folded papers in said housing, means to manually clamp the lower edge of the last paper and to manually rotate said clamping means thereby releasing said last paper from said holding means, means to move the rest of the papers for a distance of one paper during said rotative movement, means to prevent the release of the



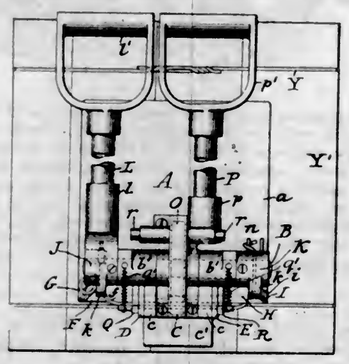
next to the last paper, a plurality of rollers adapted to conduct the released paper to the outside of said housing, and means to rotate said rollers.

1,677,940. SPINNING MACHINE FOR SPINNING ARTIFICIAL SILK. ALBERT WAGNER, Gross-Zschachwitz, near Dresden, Germany, assignor to the Firm Fr. Küttner, Pirna, Saxony. Filed Mar. 16, 1927, Serial No. 175,871, and in Germany May 4, 1926. 2 Claims. (Cl. 118—1.)



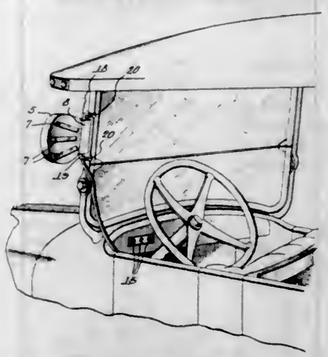
1. A spinning machine for the production of artificial silk by the stretch spinning method comprising the combination with a can and a casing surrounding said can, a perforated drum positioned centrally in the said can for receiving and enclosing the spun filaments, as and for the purpose set forth.

1,677,941. PACKAGE-BANDING MACHINE. CHARLES S. WEEKS, South Orange, N. J., assignor, by mesne assignments, to The Gerrard Company, Inc., San Francisco, Calif., a Corporation of Delaware. Filed Sept. 13, 1923, Serial No. 662,464. Divided and this application filed May 15, 1924. Serial No. 713,418. 22 Claims. (Cl. 254—80.)



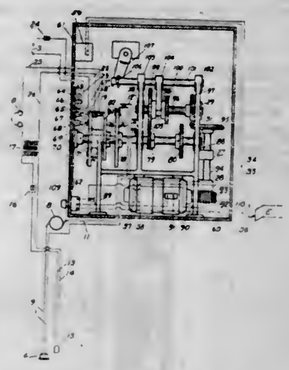
1. In a package banding machine, tension means including a plurality of members turnable on an axis substantially parallel to the plane of a looped band, said members being provided with means for the attachment of the respective end portions of said looped band, means for turning said members concurrently whereby the members cooperate for tensioning said band, and band-holding means separate from said turnable members and engageable with said looped band for retaining said band under tension.

1,677,942. ELECTRIC TRAFFIC SIGNAL. WILBER W. WHITMORE, Denver, Colo. Filed Sept. 22, 1924. Serial No. 739,162. 1 Claim. (Cl. 177—329.)



A signaling device including a body portion having an open end and having display openings formed in the sides thereof, a base to which the open end of the body portion is secured, said base having a recessed rear surface and having socket openings formed therein, lamp sockets in the socket openings and having their rear ends housed within the recessed portion of the base, a cover plate fitted over the recessed portion to close the recess, and arms for supporting the base portion.

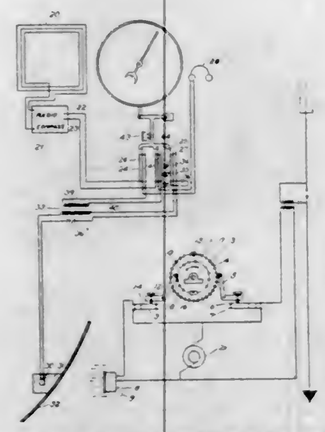
1,677,943. METHOD AND APPARATUS FOR MEASURING DISTANCE. ROBERT LONGFELLOW WILLIAMS, Newton, Mass., assignor to Submarine Signal Corporation, Boston, Mass., a Corporation of Delaware. Filed Jan. 17, 1924. Serial No. 686,922. 7 Claims. (Cl. 177—386.)



1. A method of distance and depth measurement with the aid of a sound producer, a sound receiver and a measuring device, including an indicator rotating at a constant speed with respect to a dial graduated in units of depth, which consists in emitting a succession of sound signals, each occurring when said rotating indicator is at a definite position with respect to said dial, in the direction of the object whose distance is to be measured, detecting the signals reflected from said object and

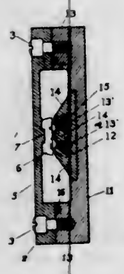
transmitting the reflected signals to the ears of an observer to establish a succession of signals which may be associated with a second position on the dial to give a depth indication.

1,677,944. METHOD AND APPARATUS FOR DISTANCE AND DIRECTION MEASUREMENT. ROBERT LONGFELLOW WILLIAMS, Newton, Mass., assignor to Submarine Signal Corporation, Boston, Mass., a Corporation of Delaware. Filed Mar. 26, 1924. Serial No. 702,082. 5 Claims. (Cl. 177—386.)



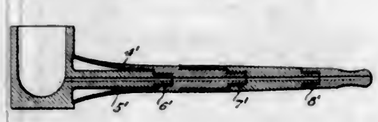
1. A means for measuring distance by the use of electromagnetic and sound signals which are sent simultaneously from a sending station, comprising means for receiving said electromagnetic signal, means for receiving said sound signals, said means having a common indicating means, switching means for changing the connections of said indicating means from said electromagnetic receiving means to said sound receiving means, a normally inoperative timing mechanism, manually operated means for simultaneously setting said timing means into operation and operating said switching means to change the connection of the indicating means from the electromagnetic receiver to the sound receiver.

1,677,945. METHOD AND APPARATUS FOR SOUND TRANSMISSION. ROBERT LONGFELLOW WILLIAMS, Newton, Mass., assignor to Submarine Signal Corporation, Boston, Mass., a Corporation of Delaware. Filed June 20, 1924. Serial No. 721,231. 15 Claims. (Cl. 177—386.)



10. A submarine sound signaling device comprising a watertight casing composed of two vibratory plates recessed to provide heavy outer rims forming space for the sound generating mechanism, and means contained within said space operating directly upon the two plates for generating the sound vibrations, said vibrations being tuned to the same frequency as that of the front plate and said back plate being tuned to a higher frequency.

1,677,946. SMOKER'S ARTICLE. ABRAHAM A. BADLER, New York, N. Y., assignor of one-half to Jay H. Kamarek, New York, N. Y. Filed Mar. 27, 1925. Serial No. 18,912. 1 Claim. (Cl. 131—12.)

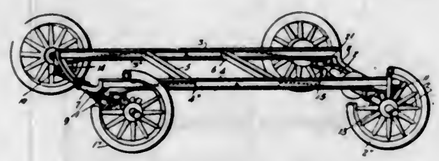


The herein described combined pipe, cigar holder and cigarette holder, the same consisting of a pipe bowl formed laterally on a face thereof with oppositely-disposed projections which, together with the bowl, are recessed, a bowl stem projecting centrally from said recess and having a reduced threaded end, a cigar-holder member having a conical hollow flared portion loosely embracing said stem with the edge thereof received in said recessed portion of the bowl, the other end having a reduced threaded portion, and a cigarette holding member detachably engaged with the cigar holding member and provided with a mouth piece serving when the device is used as a pipe, a cigar holder or a cigarette holder.

1,677,947. REVIVIFYING OF SPENT DECOLORIZING MATERIALS. OSCAR L. BARNEBEY, Columbus, Ohio. Filed Apr. 12, 1924, Serial No. 706,100. Renewed Mar. 15, 1928. 10 Claims. (Cl. 252—3.)

1. A composition for decolorizing liquids comprising the charred and activated product of a mixture of decolorizing carbon and cellulose fibre.

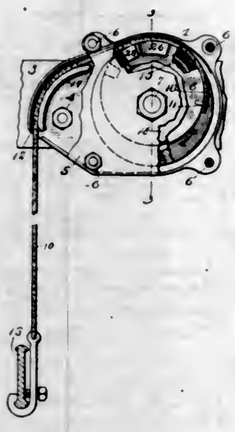
1,677,948. SPRING SUSPENSION FOR AUTOMOBILE CHASSIS FRAMES. RUPERT CARL BICKNELL, Toronto, Ontario, Canada. Filed Mar. 22, 1927. Serial No. 177,385. 3 Claims. (Cl. 280—104.)



2. In a spring suspension device for automobiles, the combination with the front and rear axles, chassis frame and spring supports at the end of the frame, of side suspension means comprising an inverted U-shaped channel member mounted centrally of its length within the side bars of the chassis frame to swing in a vertical plane, leaf springs secured at their ends within the ends of the channel bar, and means for supporting the outer end of the spring upon the front and rear axles.

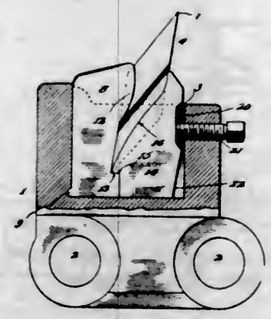
1,677,949. SHOCK ABSORBER. CHARLES E. BOND, Spencerville, Md. Filed Dec. 3, 1924. Serial No. 753,569. 8 Claims. (Cl. 267—10.)

1. In a snubber, the combination of an eccentric drum adapted to be rotatably mounted on one member of a vehicle, a strap connected to and arranged to be wound on the drum and adapted to be connected to another member of the vehicle movable to and from the first, a spring acting on the drum to rotate the same and wind the strap thereon, and a fixed friction surface over which the strap travels in its winding and unwinding move-



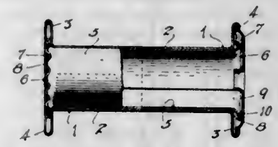
ments, the form of said surface and its relation to the drum being such that when the members of the vehicle move away from each other and the strap is unwound from the drum, the strap will be disengaged from a portion of said friction surface.

1,677,950. BIT. NEWTON K. BOWMAN, Bowdil, Ohio. Filed Aug. 21, 1926. Serial No. 130,636. 3 Claims. (Cl. 262—33.)



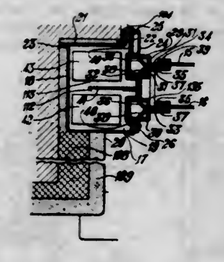
1. The combination of a mining machine chain lug, a holder seating in the lug and having a forwardly and outwardly inclined straight front face, a wedge seating in the lug in advance of the holder and having its rear face disposed obliquely relative to the front face of the holder, a rhomboidal bit disposed between the holder and the wedge and held by the same, the opposed faces of the holder and the wedge conforming to the bit so as to closely engage the same and the entire area of the rear end face of the bit abutting the front face of the holder, and means mounted in the lug and engaging the wedge to prevent withdrawal from the lug.

1,677,951. SPOOL. HENRY BRUCKER, Newark, N. J., assignor to American Aluminum Ware Company, a Corporation of New Jersey. Filed June 17, 1926. Serial No. 116,586. 1 Claim. (Cl. 242—123.)



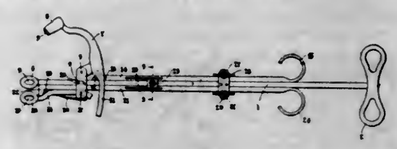
A spool comprising two tubular body sections arranged co-axially end to end to form a drum, and a tie tube passing through said body sections and having its ends upset or turned outwardly to form flanges overlying the corresponding ends of said body section, said flanges being corrugated.

1,677,952. METAL WINDOW. JAMES H. BYRNES, Flushing, N. Y. Filed July 8, 1922, Serial No. 573,541. Renewed Dec. 7, 1927. 13 Claims. (Cl. 189—72.)



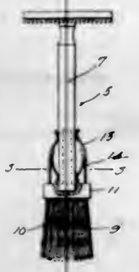
1. In a metal window, the combination of oppositely disposed jambs, each of hollow metal construction, the exposed faces of which are provided with longitudinally extending depressions, hollow races for the respective upper and lower window sash, said races having frontal faces disposed respectively adjacent the lateral faces of the sash, said frontal faces being provided with slots and means accessible through said slots for removably positioning said races respectively in said depressions.

1,677,953. IMPLEMENT FOR FACILITATING THE HANDLING OF ANIMALS. SAMUEL CAMPBELL, Charlottetown, Prince Edward Island, Canada. Filed July 5, 1927, Serial No. 203,653, and in Canada May 16, 1927. 5 Claims. (Cl. 128—223.)



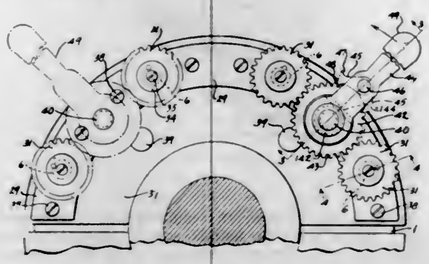
1. An implement of the kind described comprising a main bar, a pair of members mounted adjacent the end of said bar and normally arranged closely together one above the other so that the upper and lower teeth of an animal may engage the upper and lower members respectively, manually operable means for pressing the animal's nose onto said upper member, and manually operable means for moving one of said members away from the other when desired.

1,677,954. SHAVING COMBINATION. ROY LEE CLEARY, Kerlin, Ark. Filed Aug. 16, 1927. Serial No. 213,370. 3 Claims. (Cl. 132—80.)



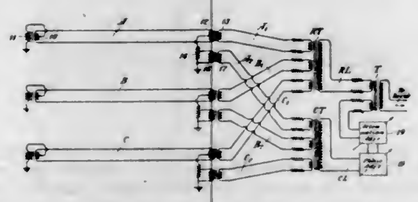
1. In a shaving appliance of the class described, in combination, a razor including a handle, a shaving brush including a bristle backing, a head, said head having a depression for reception of said handle, and a clamping means carried by said head and detachably connected with said handle.

1,677,955. QUICK LOCKUP FOR PLATE CYLINDERS. CURTIS S. CRAFTS, Oak Park, Ill., assignor to Goss Printing Press Company, a Corporation of Illinois. Filed May 18, 1926. Serial No. 109,816. 8 Claims. (Cl. 101—378.)



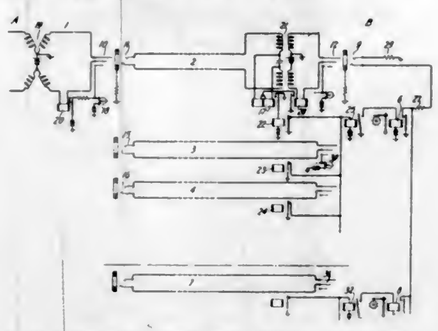
8. A quick lock-up for plate cylinders including in combination a plate cylinder having a plurality of clip rods provided with plate clamping clips, a gear wheel on each clip rod, and a removable gear wheel adapted to mesh with a plurality of said gear wheels to simultaneously operate the corresponding clip rods.

1,677,956. BROADSIDE ANTENNA ARRAY. SAMUEL W. DEAN, Houlton, Me., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 3, 1926. Serial No. 113,506. 5 Claims. (Cl. 250—11.)



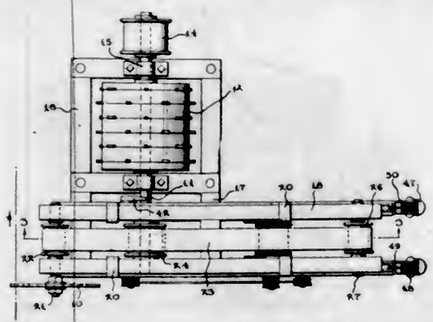
5. In a transmission system, a plurality of directive antenna combinations arranged side by side and a fraction of a wave length apart in a direction at right angles from the direction in which signals are to be received, a common receiving circuit, a separate line extending from each antenna combination to said receiving circuit, a transformer arrangement for connecting said lines to said receiving circuit, and resistance combinations associated with each line having such values as to in effect build out the transformer arrangements so that each line is terminated in a combined impedance including that of the receiving circuit and other lines substantially equal to its own impedance.

1,677,957. TELEPHONE SYSTEM. LLOYD L. EAGON, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 9, 1926. Serial No. 153,702. 5 Claims. (Cl. 179—175.)



1. In a telephone system, two stations, trunks originating at one of said stations and terminating at the other, a register at the trunk terminating station, means at the trunk originating station for making all of said trunks busy, means at the trunk terminating station for actuating said register in response to the busy condition of all of said trunks, and means for indicating the actuation of the register at the trunk originating station.

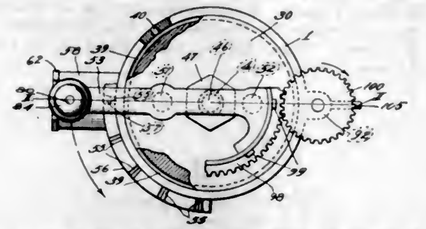
1,677,958. COMBINATION TRIMMING SAW AND SLAB KICKER. WEB M. EDDINS, Barnett, Miss. Filed Apr. 28, 1926. Serial No. 105,241. 4 Claims. (Cl. 143—1.)



1. Apparatus for the purpose indicated comprising a toothed kicker drum, a bodily movable saw frame, a rotary saw carried at one extremity of said saw frame, and a common means for rotating the drum, effecting bodily movement of the saw frame and rotating the saw on its own axis.

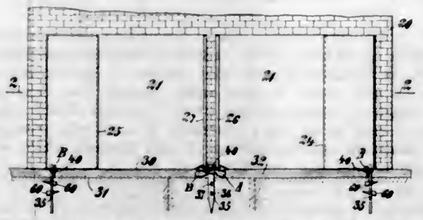
1,677,959. FLUID-PRESSURE-CONTROL DEVICE. JOHN C. ERICKSEN, Falls City, Nebr. Filed Sept. 15, 1927. Serial No. 219,658. 10 Claims. (Cl. 303—52.)

2. A pressure fluid control device comprising a casing having two series of correlated ports, a pressure fluid supply pipe communicating with said casing, a rotor, movable in said casing, having exhaust passages and inlet passages, means for moving said rotor to and from its neutral and operative positions, all of the ports of one of said series of ports and all the ports of the other of said series of ports being in communication with said exhaust passages and inlet passages respectively when the



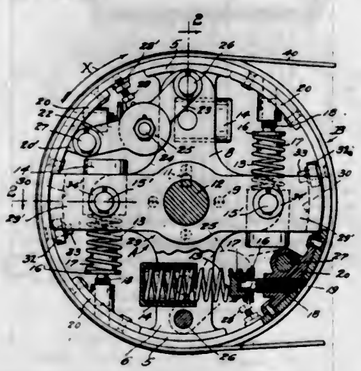
rotor is in its neutral position, and means, including said rotor, whereby the correlated ports of the two series may be successively or selectively connected with the opposite passages, with which they are in communication when the rotor is in the neutral position, as the rotor is moved to the various operative positions.

1,677,960. DOORSTOP AND LATCH. JOHN W. ESKHOLME, Glen Ridge, N. J. Filed Mar. 14, 1925. Serial No. 15,502. 2 Claims. (Cl. 292—110.)



1. In a door stop and latch the combination of a post, a latch having a tapered nose end and a tail end, and pivoted in proper position to the post to overbalance said tail end, said latch having a recess adjacent to its nose end, a turned over flange at the top edge of the nose end and a stop at the bottom edge of the latch adapted to contact with the post to limit the swing of the latch.

1,677,961. GOVERNOR. JOSEPH G. FAY, Seattle, Wash. Filed Dec. 9, 1925. Serial No. 74,254. 4 Claims. (Cl. 192—150.)



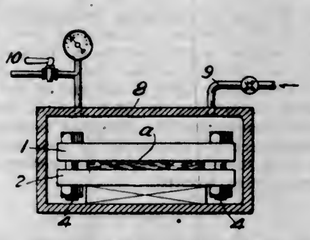
1. A governor comprising a driving member, and a driven member disposed one within the other, springs providing power transmission connections between the members, toggle devices providing yielding connections between said members, said toggle devices including heavy bodies subjected to centrifugal force and cooperating with said springs to impart differential rotary movement to said members responsive to speed reductions of said members, a shiftable member rotatively carried by the driven member, and means carried by the driving member and acting responsive to changes in the relative speeds of the driving and driven members to actuate said means for actuating said shifting member.

1,677,962. FLYING MACHINE. THOMAS M. FINLEY, St. Louis, Mo. Filed Mar. 23, 1927. Serial No. 177,623. 3 Claims. (Cl. 244—3.)



1. In a flying machine, a body having a longitudinal channel open at the bottom and provided with a substantially funnel-shaped entrance, the walls of the entrance having receding concave inner portions arranged to form a vacuum or suck when air is drawn into the funnel-shaped entrance whereby head resistance is eliminated and a forward impulse created.

1,677,963. TREATMENT OF WOOD AND PRODUCT THEREOF. BRUCE FORD, Philadelphia, Pa. Filed Sept. 22, 1922. Serial No. 589,930. 8 Claims. (Cl. 34—24.)



2. The process of treating wood which consists in vaporizing moisture in the pores faster than it can escape therefrom by the application of heat to the wood, opposing the disruptive tendency of the vapor accumulating in the pores by mechanically restraining the wood against expansion, and while the wood is mechanically restrained permitting the evacuation of the vapor from the pores.

1,677,964. SALTS OF 3-ACETYLAMINO-4-HYDROXYPHENYL ARSENIC ACID AND METHOD OF PREPARING THE SAME. ERNEST FOURNEAU, Paris, France, assignor to Les Etablissements Poulenc Freres, a Corporation of France. Filed Jan. 18, 1927, Serial No. 161,967, and in France Jan. 19, 1926. 6 Claims. (Cl. 260—14.)

1. A composition of matter containing the ammonium salt of acetylamino-phenylarsenic acid.

1,677,965. PROCESS AND MEANS FOR PRODUCING DESIGNS FOR REPRODUCTION. ARTHUR FRUWIRTH, Brooklyn, N. Y. Filed Sept. 17, 1925. Serial No. 56,820. 24 Claims. (Cl. 95—5.)

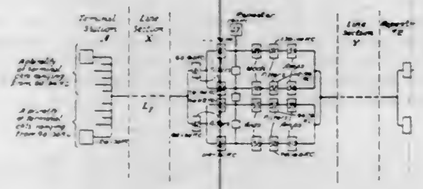
1. The process of producing a printing plate or other design bearing surface which comprises making a nega-

tive of an original, making a positive of the original, placing the negative and positive in spaced apart relation, placing a light-sensitive surface in contact with the



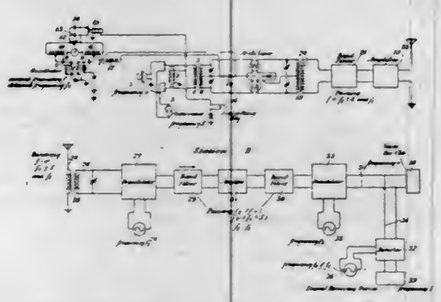
positive, and exposing the light sensitive surface to light passing obliquely through the spaced-apart negative and positive.

1,677,966. CARRIER SIGNALING SYSTEM. ESTILL I. GREEN, East Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 30, 1925. Serial No. 78,455. 9 Claims. (Cl. 179—15.)



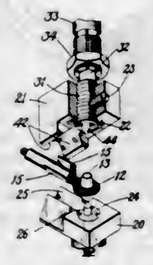
1. The method of equalizing transmission of a plurality of carrier channels transmitted over or through the same medium, which consists in dividing the channels into two groups, beating the frequencies in each group by a frequency equal to the sum of the lowest and the highest frequencies in both groups, selecting the frequencies representing the difference between the beating frequency and the frequencies in each group, and impressing upon the same transmitting medium the resulting frequencies as selected.

1,677,967. RADIO SIGNALING SYSTEM. WILLIAM H. T. HOLDEN, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 29, 1924. Serial No. 716,793. 11 Claims. (Cl. 250—6.)



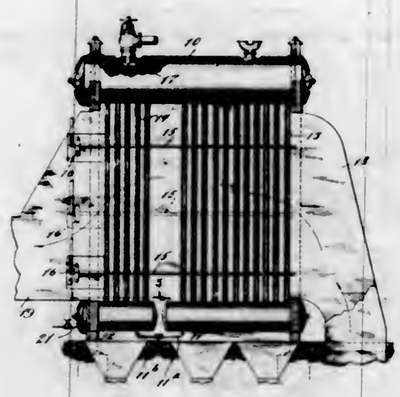
1. In a signaling system, the combination with a modulator of a source of carrier current, separate sources of current to modulate the said carrier current, and means operated by the connection of one of said modulating sources with the said source of carrier current to change the frequency of the said carrier current.

1,677,968. FASTENER-APPLYING DEVICE. WILLIAM HUGHES, Taunton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 8, 1923. Serial No. 611,461. 7 Claims. (Cl. 153—1.)



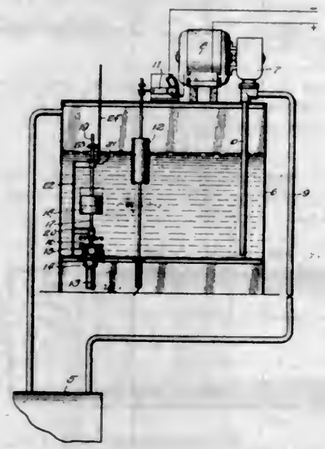
1. A fastener-applying device comprising two relatively movable pressure-applying members, and two dissimilar pairs of fastener-engaging dies carried by said members, one of said pairs of dies being formed and arranged to clench a holding portion of a fastener and the other one of said pairs being otherwise formed and arranged to transform another portion of said fastener while said clenching dies are functioning.

1,677,969. STEAM BOILER. DAVID S. JACOBUS, Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed June 1, 1922. Serial No. 565,062. 7 Claims. (Cl. 122—7.)



1. In a steam boiler, an upper steam and water drum, two physically distinct lower mud drums, means for introducing feed water to one of said mud drums, economizer tubes connecting said steam and water drum to the feed-water drum, boiler tubes connecting said steam and water drum to the other mud drum, and means for directing heated gases over the boiler tubes and then over the economizer tubes.

1,677,970. SAFETY DEVICE FOR FUEL SYSTEMS. JOHN T. JANETTE, Chicago, Ill. Filed Feb. 6, 1926. Serial No. 86,487. 6 Claims. (Cl. 137—68.)



6. In an apparatus of the character set forth, the combination of a receptacle having an outlet and means for closing the outlet, which means is normally inoperative but which is adapted to close the outlet when liquid is discharged from the chamber at a rate in excess of the normal discharge.

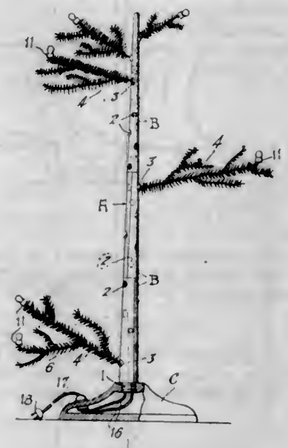
1,677,971. CARBON ROLL AND CORE FOR MANIFOLDING MACHINES. LAWRENCE EDWARD LENTZ, Harrisburg, Pa., assignor to Elliott-Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 27, 1925. Serial No. 11,995. 2 Claims. (Cl. 242—73.)



1. A carbon roll reel including, a rotatable shaft, a pair of flanges, and an intermediate sleeve, said flanges and sleeve being unconnected and splined to the shaft to be directly driven thereby and relatively separable to extend the capacity of the reel in degree limited only by the length of the shaft.

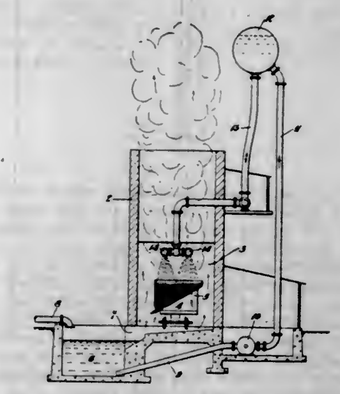
1,677,972. ELECTRICALLY-ILLUMINATED ARTIFICIAL TREE. EMANUEL S. MARKS, Brooklyn, N. Y. Filed Aug. 3, 1927. Serial No. 210,245. 6 Claims. (Cl. 240—10.)

1. An artificial electrically illuminated tree, comprising a trunk portion, a plurality of electric outlet fixtures mounted therein, means for connecting all of said fixtures in an electric circuit, a plurality of branches each having electric wires extending therethrough, an



electric connector element to separately fit any of said outlet fixtures and electrically connected to said wires, and a lamp socket electrically connected to said wires.

1,677,973. METHOD OF QUENCHING COKE. FRANK F. MARQUARD, Clairton, Pa. Filed Aug. 8, 1925. Serial No. 49,038. 3 Claims. (Cl. 202—11.)

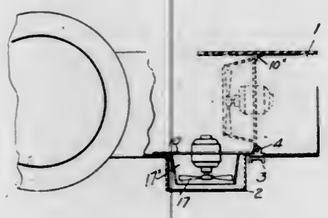


1. The method of quenching hot coke which includes intermittently spraying the hot coke with water for relatively short periods, and permitting the coke to drain and cool for relatively long periods between the successive spraying periods.

1,677,974. AIR-CIRCULATING DEVICE FOR AIR DUCTS. HENRY GRATTAN MCCAFFREY, Galt, Ontario, Canada. Filed Oct. 27, 1927. Serial No. 229,138. 4 Claims. (Cl. 126—110.)

1. The combination with an air duct, of a shutter hingedly mounted at one side of the duct so as to ex-

tend either longitudinally of the duct against the side thereof or transversely across the duct, a force fan carried by the shutter, and exerting air pressure, for



automatically swinging the shutter to the transverse position and means for returning the shutter to the longitudinal position when the pressure is relieved.

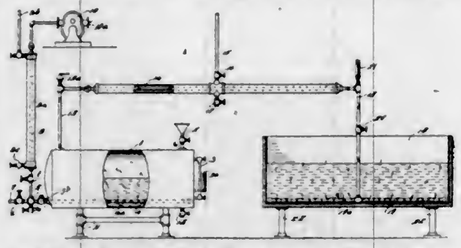
1,677,975. METHOD OF CEMENTING OIL WELLS. MIERLEY T. MCKEE, Zanesville, Ohio. Filed Nov. 26, 1926. Serial No. 150,793. 6 Claims. (Cl. 166—21.)



1. The method of cementing wells, which consists in pumping a drilled well to remove heavy mud laden water from the well casing and the space outside thereof, in lowering the casing so that the same will rest on the bottom of the well, displacing a portion of the water from said casing, placing a body of cementitious material in said casing between a pair of upper and lower plug members raising the casing slightly from the bottom of the well, forcing these materials downwardly in said casing to the bottom of the well with the lower plug member in contact with said bottom, elevating the casing to allow continued pressure applied to the upper plug member to force the cementitious material out of the bottom of the casing and into the lower part of the well and upwardly between the walls of the well and the casing, and in again lowering the casing so that the same rests upon the bottom of the well.

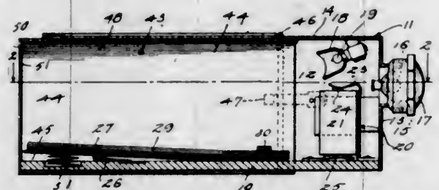
1,677,976. METHOD FOR DELACTATING DAIRY PRODUCTS. WILLIAM J. MCLAUGHLIN, Owatonna, Minn. Filed June 22, 1925. Serial No. 38,785. 2 Claims. (Cl. 99—11.)

2. The process of preparing, mixing and purifying gas and air for introduction into milk to aerate the same, consisting of mixing a gas producing chemical with clean water in a closed vessel, introducing steam into the bottom of the vessel to produce the gas and heat the same, introducing heated air into the bottom of the said vessel to cleanse the air, mix same with



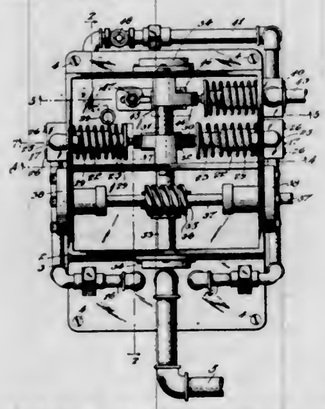
the gas and to drive off the mixture and heating the driven off mixture to from 140° to 200° F. before introduction into the milk.

1,677,977. CHECKER'S PAD HOLDER. JAMES H. MENASCO, Cushing, Okla. Filed Mar. 6, 1928. Serial No. 259,492. 7 Claims. (Cl. 240—6.4.)



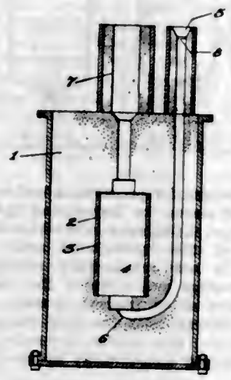
6. In a pad support for memoranda pads, a base, a hood carried by one end of the base, means for supporting a pad upon the base, an electrical illuminating element and a reflector therefor carried by said hood and adapted to direct light downwardly and outwardly upon the base to illuminate said pad, a circuit for said illuminating element including a spring open switch underlying the pad and applied to the base and closed by the application of pressure to the pad, and a shield detachably engageable with the sides of the opposite end of the base and having a transparent top through which a pad supported by the pad supporting means may be observed.

1,677,978. OIL-SUPPLY-CONTROLLING APPARATUS FOR LIQUID-FUEL BURNERS. GEORGE H. MESSER, Newark, N. J. Filed Apr. 6, 1926. Serial No. 100,199. 5 Claims. (Cl. 103—1.)



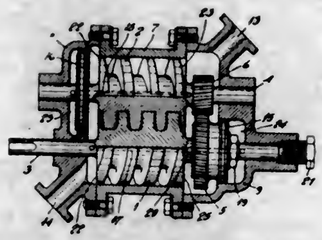
1. Apparatus of the character described comprising a reservoir for oil, a pump including an unpacked cylinder and piston arranged in said reservoir so that said cylinder and piston are sealed by the oil in said reservoir, said pump having an inlet to be connected to an oil supply and an outlet discharging into said reservoir, a second pump including an unpacked cylinder and piston arranged in said reservoir and sealed by the oil therein, said second pump having an inlet connected to said reservoir for withdrawing the oil therefrom and an outlet for delivering said oil to a desired point.

1,677,979. METHOD OF CASTING ARTICLES HAVING CHROMIUM-ALLOY SURFACES. WALTER M. MITCHELL, Philadelphia, Pa., assignor, by mesne assignments, to Electro Metallurgical Company, a Corporation of West Virginia. Filed Sept. 24, 1924. Serial No. 739,459. 8 Claims. (Cl. 22—203.)



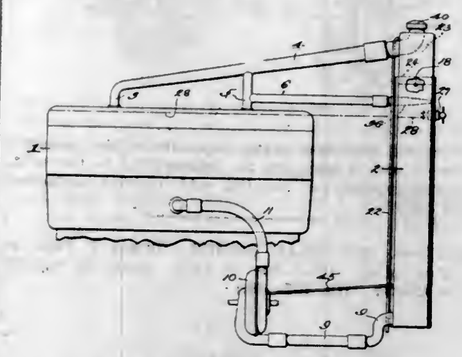
5. In the production of ferrous metal castings having a chromium alloy surface, which production includes coating the mold surface, with chromium and a binder, and casing in such mold; the method of preventing the running of the alloy coating on the casting comprising pouring the base metal under a ferrostatic head substantially between 20 and 30 inches.

1,677,980. ROTARY PUMP, MOTOR, METER OR THE LIKE. CARL OSCAR JOSEF MONTELIUS, Stockholm, Sweden. Filed July 28, 1926, Serial No. 125,486, and in France Aug. 5, 1925. 6 Claims. (Cl. 103—128.)



1. A rotary pump, motor, meter or the like, comprising a housing and at least two intermeshing screws rotatably mounted in said housing, the latter fitting tightly to the tops of the screw threads, the threads of the intermeshing screws being cut in such a way that the thickness of the threads of the one screw increases gradually from one end of the screw towards the opposite end, whereas the thickness of the threads of the cooperating screw decreases in the same direction, adjusting means being provided for axially displacing and simultaneously turning the one screw relatively to the other screw.

1,677,981. PROCESS OF AND MEANS FOR COOLING INTERNAL-COMBUSTION ENGINES. WELLINGTON W. MUIR, Lockport, N. Y., assignor to Harrison Radiator Corporation, Lockport, N. Y. Filed Aug. 23, 1924. Serial No. 733,697. 17 Claims. (Cl. 123—174.)



1. In a cooling system for engines the combination of a jacket; a radiator; a connection between said jacket and said radiator; return connections between said radiator and said jacket; and means associated with the system by which there is continually supplied to said jacket automatically and alternately too little, and too much cooling fluid to continuously maintain said jacket at a predetermined desired temperature.

1,677,982. COMBINED PACKING CASE AND TRAY FOR STORAGE-BATTERY CELLS. WILLIAM H. PALMER, Jr., Wayne, Pa. Filed July 10, 1926. Serial No. 121,555. 2 Claims. (Cl. 217—35.)

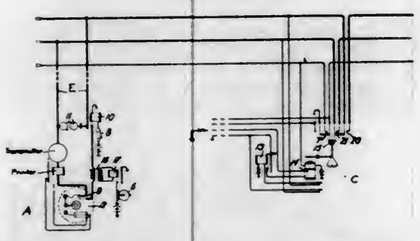


1. A combined packing case and tray for storage battery cells comprising a two-part detachable structure of which one part includes a subdivided tray having end walls and slat sides of which the intermediate slats are removable, and of which the other part includes a housing having a peaked top and side bars of which elongations constitute handles and ends arranged in overlapping relation with the end walls of the tray and adapted for detachable connection therewith.

1,677,983. PRINTING-TELEGRAPH EXCHANGE SYSTEM. RALZEMOND D. PARKER, Brooklyn, N. Y., and DONALD B. PERRY, Maplewood, N. J., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 23, 1922. Serial No. 608,775. 8 Claims. (Cl. 178—2.)

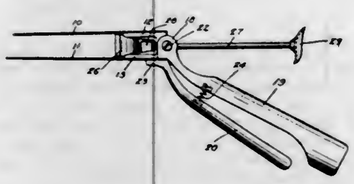
1. A printing telegraph exchange system comprising a plurality of printing telegraph stations, printing telegraph transmitting and receiving mechanisms at each of the stations, a central office, line conductors connecting the stations to said central office, means at said cen-

tral office for establishing connections between said lines to permit the transmission of direct current telegraph signals between the connected line conductors, and means



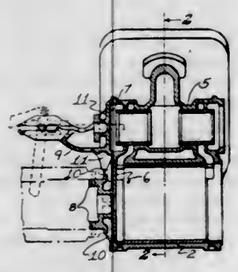
associated with said means responsive to the connection thereof with a busy line for transmitting to the calling station impulses for operating said receiving mechanism.

1,677,984. ICE-CREAM DISHER. GEORGE T. PABE, St. Paul, Minn. Filed July 16, 1923. Serial No. 651,722. 4 Claims. (Cl. 107—48.)



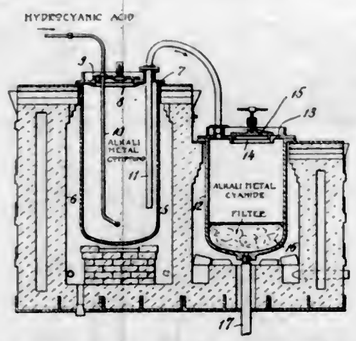
1. An ice cream disher comprising a pair of normally parallel plates, a pair of arcuate attaching members secured to said plates, hinge members formed on said attaching members for hingedly connecting said plates together and handles for moving said plates relative to one another, said hinge members being spaced apart, a plunger operable between said hinge members and extending between said plates and an ejector secured to the end of said plunger.

1,677,985. LOCOMOTIVE STRUCTURE. HARRY M. PFLAGER, St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill., a Corporation of New Jersey. Filed Aug. 30, 1926. Serial No. 132,509. 12 Claims. (Cl. 105—44.)



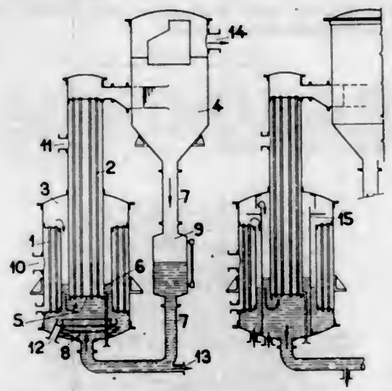
2. A locomotive bed casting, including a cylinder provided with an integral head, and an integral cross head guide bracket.

1,677,986. APPARATUS FOR THE PRODUCTION OF ALKALI-METAL CYANIDES. ROBERT W. POINDEXTER, Jr., Los Angeles, and PAUL T. DOLLEY, Los Angeles County, Calif., assignors to California Cyanide Company, Incorporated, New York, N. Y., a Corporation of Delaware. Original application filed Apr. 17, 1926, Serial No. 102,612. Divided and this application filed Feb. 9, 1927. Serial No. 166,936. 6 Claims. (Cl. 23—79.)



1. In an apparatus for preparing alkali metal cyanides, a converter and means for introducing hydrocyanic acid into the converter, including a tube which does not cause decomposition of the hydrocyanic acid, a protecting sheath which is not substantially attacked by fused alkali metal cyanides and a tip at the end of the tube and sheath, adapted to prevent contact of fused material in the converter with the tube, the tip being composed of a material that neither decomposes hydrocyanic acid nor is attacked substantially by fused alkali metal cyanides.

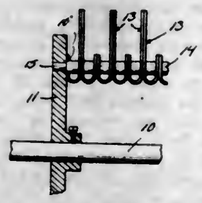
1,677,987. EVAPORATING APPARATUS. ERMIN POKORNY, Prague, Czechoslovakia. Filed Jan. 4, 1927, Serial No. 159,009, and in Czechoslovakia Jan. 16, 1926. 2 Claims. (Cl. 159—14.)



1. An evaporating apparatus comprising, in combination, an outer encompassing inclosed chamber, an enclosed annular heating chamber within and contiguous to the inner surface of the wall of the said outer chamber and including tubes extending vertically therethrough, a second heating chamber having vertically disposed tubes arranged centrally within said annular heating chamber, there being a space between said heating chambers, constituting open communication between the tubes in both heating chambers, said second heating chamber having its lower end positioned above the lower end of the annular heating chamber and its other end situated above said annular heating chamber and the top of the outer enclosed chamber, a steam and juice receptacle, means communicating said receptacle with said centrally disposed heating chamber, a juice container beneath said steam and juice receptacle and communicating with said steam and juice receptacle and with the lower end of the said outer encompassing chamber, said encompassing chambers and centrally disposed heating chambers having inlets for steam, and said outer encompassing chamber having an outlet for juice.

2. An evaporating apparatus, comprising, in combination, an outer encompassing enclosed chamber, an enclosed annular heating chamber within and contiguous to the inner surface of the wall of the said outer chamber and including tubes extending vertically therethrough, a second heating chamber having vertically disposed tubes disposed centrally within said annular heating chamber, there being a space between said heating chambers constituting open communication between the tubes in both heating chambers, a partition within said space forming compartments between said annular and centrally disposed heating chambers and having open communication with each other at their upper ends, said second heating chamber having its lower end situated above the lower end of the annular heating chamber and its other end situated above said annular chamber and the top of the outer enclosed chamber, a steam and juice receptacle communicating with said centrally disposed heating chamber and having a steam outlet, a juice container beneath said steam and juice receptacle, means communicating said container with said juice and steam receptacle and with the lower end of the said encompassing chamber, said encompassing and centrally disposed heating chambers having inlets for steam, and said encompassing chamber having an outlet for juice.

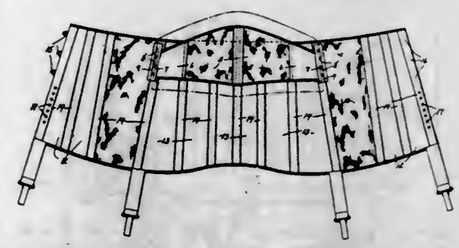
1,677,988. GRINDING MACHINE. ERNEST POLESKE and SEARS POLESKE, Manilla, Iowa. Filed Jan. 14, 1928. Serial No. 246,724. 4 Claims. (Cl. 83—11.)



1. A grinding machine comprising a housing having a grinding chamber, disks rotatably mounted in said chamber, pivot rods extending between said disks, a plurality of hammers pivotally mounted in contiguous relation on said pivot rods between said disks, said hammers comprising flat J-shaped bars presenting opposed spaced portions having alined openings therein through which the pivot rods extend.

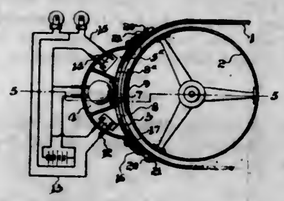
1,677,989. REDUCING CORSET. MICHAEL J. REYNOLDS, West Haven, Conn., assignor, by mesne assignments, to The Strouse, Adler Company, New Haven, Conn., a Corporation. Filed Dec. 13, 1924. Serial No. 755,680. 1 Claim. (Cl. 2—48.)

A solid-back open-front reducing-corset having a corset-body comprising a solid-back section, two complementary hip sections, and two complementary front-sections, means for fastening the free edges of the said front-sections together, two flaps respectively applied to the inner face of the corset-body in substantially vertical positions near the upper edge thereof at points adjacent to the rear edges of the hip-sections thereof, a removable vertically-adjustable diaphragm-reducing belt comprising an elastic central section and non-elastic end-sections and having its upper edge symmetrically sloped downward



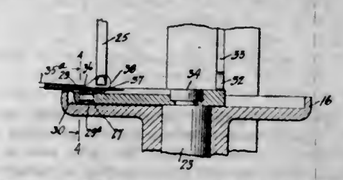
from its center, and fastening means for vertically adjusting the ends of the said belt to the said flaps with respect to which it is vertically adjustable.

1,677,990. SPEEDOMETER. PERCY A. ROBBINS, Highland Park, Ill. Filed Dec. 13, 1926. Serial No. 154,581. 8 Claims. (Cl. 116—57.)



1. A speedometer having a part rotatable to indicate speed; a segmento-cylindrical mirror mounted on said part concentric with its axis; a lamp; a wall separating the lamp from the said part and provided with a window through which light may shine on the mirror when the latter is brought to a suitable position by the movement of said rotatable part; a second window through which light passing through the first window to the mirror is reflected; and means for utilizing light so reflected to give a warning signal.

1,677,991. NEEDLE PLATE FOR FUR-SEWING MACHINES. HARRY ROSS, New York, N. Y., assignor to Fur Guide Machine Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 10, 1927. Serial No. 167,121. 4 Claims. (Cl. 112—16.)

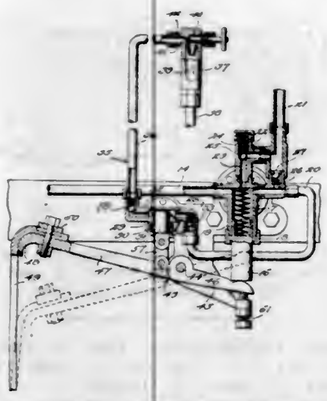


1. In combination with a sewing machine provided with material feeding disks, a needle plate associated with one of the disks, a resilient member on the plate in co-operative engagement with the said disk to prevent tipping thereof, and means on the resilient member to form a loop of needle thread.

1,677,992. REGULATING APPARATUS. ERNEST J. SERPAS, New Orleans, La. Filed Sept. 19, 1927. Serial No. 220,599. 6 Claims. (Cl. 184—7.)

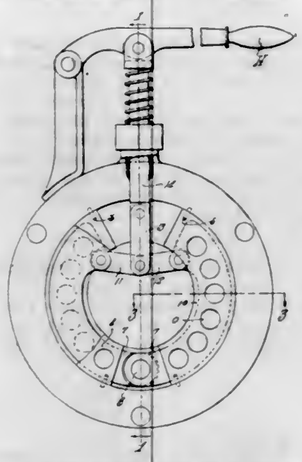
1. In combination with a lubricating system for vehicles having lubricant carrying conduits in connection with a pump, a piston in said pump and means having

connection with the axle of the vehicle for operating said piston, a supplemental system, a ram in said supplemental system having a piston connected with said operating



means, a pipe forming communication between the pump and the ram casing, a check valve interposed between said pipe and said ram casing, and means for controlling the flow of lubricant through the supplemental system.

1,677,993. VALVE. WILLIAM H. STADDEN, Springfield, Mass. Filed July 25, 1927. Serial No. 208,270. 6 Claims. (Cl. 251—18.)

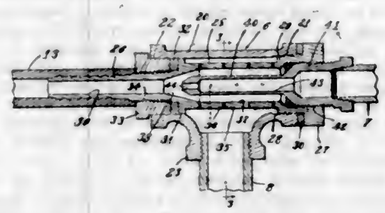


1. A valve construction, including a curved valve seat having a tapered cross section, with a plurality of port openings therein on each side of the valve seat, a pivoted valve closure of curved form having a wedge shaped cross section adapted to fit the tapered cross section of the valve seat and of approximately the same curvature as the seat, and mechanism to force the closure to turn on its pivot and wedge in said seat.

1,677,994. BRIQUETTE AND PROCESS OF MAKING THE SAME. ALBERT L. STILLMAN, Plainfield, N. J., assignor to The General Fuel Briquette Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 21, 1927. Serial No. 162,682. 4 Claims. (Cl. 44—16.)

1. The method of making briquettes which comprises bringing together approximately 90% of powdered carboniferous fuel and approximately 5% to 7% molasses lees and from 5% to 3% of sulphite liquor, grinding, crushing, and kneading the thus assembled mixture until an intensely interacted moldable agglomerate is formed, shaping the agglomerated mixture into briquettes under pressure and then subjecting the briquettes to a carbonizing temperature.

1,677,995. MIXING VALVE. JOHN H. TRITZ, Clinton, Iowa, assignor to Cotta Transmission Corporation, Rockford, Ill., a Corporation of Illinois. Filed Apr. 5, 1926. Serial No. 99,760. 1 Claim. (Cl. 103—263.)

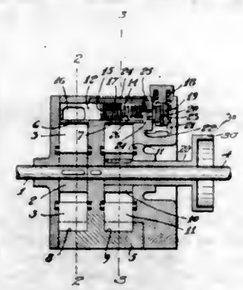


A spray fitting for the purpose described, comprising a hollow T-shaped body member having a pair of aligned end openings and an intermediate side opening, a hollow tubular jet element extending through said body member between the aligned open ends thereof, having the intermediate portion thereof spaced from the inside walls of said body member, there being a plurality of restricted openings provided in the wall of the jet element in said intermediate portion, the ends of said jet element serving to close the aligned end openings of the body member, at least one of said ends being externally threaded and the corresponding end of said body member being internally threaded for threaded reception thereof whereby the jet element is arranged to be threaded tightly in place in the body member, the other end of said jet element being smaller than the bore at that end of the body member and being externally threaded, the said end of the bore being smooth, a packing washer on the said end of the jet element, a packing nut threading on said end and arranged when tightened to spread the washer so as to make a sealing fit in the bore, the tightening of the packing nut being unaffected by the tightening of the jet element by reason of the arrangement set forth, and vice versa, an air injector nozzle mounted in the rearward end of said jet element and extending centrally therein toward the opposite end thereof in spaced relation to the inside walls of said jet element, means for supplying air under pressure to said injector, means for supplying liquid under pressure to the intermediate side opening of the body member for discharge into the jet element through the restricted openings in the walls thereof, and means communicating with the forward end of said jet element for conducting a spray discharged from said fitting resulting from the action of the air with the liquid.

1,677,996. HYDRAULIC CHANGE-SPEED GEAR. SVEN GUSTAF WINGQUIST, Gottenborg, Sweden. Filed Jan. 24, 1924, Serial No. 688,248, and in Sweden Feb. 28, 1923. 13 Claims. (Cl. 192—58.)

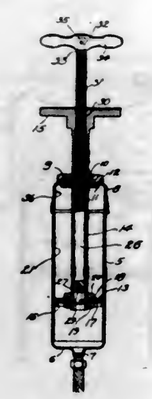
1. A hydraulic change speed gear, comprising a rotary delivery pump device and a rotary receiving pump device, each of said pump devices comprising at least one pump element, at least one pressure channel forming a communication between said delivery pump device and said receiving pump device, a valve disposed in said pressure channel and controlled by the fluid pressure set up in said delivery pump device in overcoming the load to be driven and tending to open said valve, a spring device tending to close said valve, and means for automatically

altering the hydraulic control of said valve when one of the rotary members of the change speed gear exceeds a certain speed, so that said valve is caused by the said



spring device to take up its closed position, said means comprising a valve device controlled by centrifugal force and by a spring device.

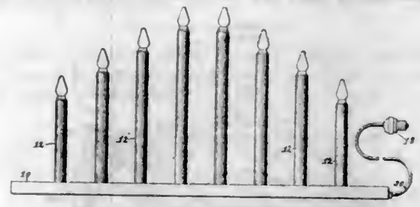
1,677,997. GREASE GUN. HENRY S. BEAL, Springfield, Vt. Filed Jan. 13, 1921. Serial No. 436,881. 14 Claims. (Cl. 221—47.3.)



1. A grease gun comprising a main cylinder having a nipple at one end for the emission of lubricant, a main plunger movable in said cylinder, said plunger having a stem projecting from the opposite end of the cylinder and having a bore which constitutes a supplemental cylinder, and a supplemental plunger normally movable by and with the main plunger and operable in the supplemental cylinder to eject grease through said nipple when the main plunger is relatively stationary.

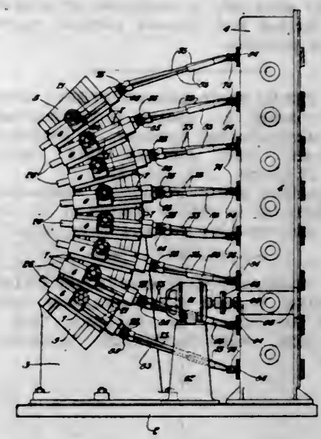
1,677,998. ELECTRICAL CHRISTMAS CANDLES. CHESTER T. BLISS, Melrose Highlands, Mass., assignor to Chetlew Manufacturing Company, a Copartnership comprising Lewis J. Sage and himself, Malden, Mass. Filed Oct. 9, 1925. Serial No. 61,520. 1 Claim. (Cl. 240—10.)

An illuminating device of the character described, comprising an elongated substantially flat portable base capable of being set upon and supported by the sill of a window and provided with a wire-receiving chamber and having in its upper surface a plurality of openings spaced apart and communicating with said wire-receiving chamber, a plurality of tubular members of different lengths inserted into the openings in said hollow base and projected upwardly from the latter, socket-supporting members inserted into said hollow tubular members and connected with the wires in the chamber in said base, and relatively small tapering lamps of low voltage



in said sockets, said tubular members being arranged to decrease in length in opposite directions from the center of the base toward the ends thereof.

1,677,999. RADIAL MULTIPLE-SPINDLE DRILL. JOHN J. BOAX, McKeesport, and BORIS S. ROBINOFF, Pittsburgh, Pa., assignors to National Tube Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Dec. 12, 1922. Serial No. 606,464. 4 Claims. (Cl. 77—26.)

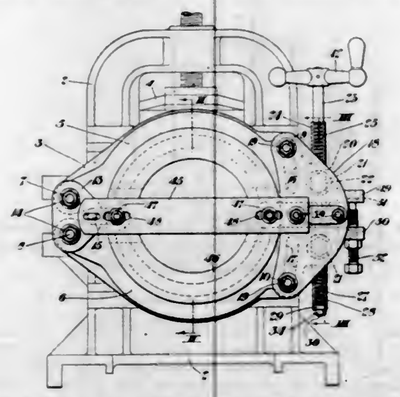


1. A radial multiple spindle drilling machine, comprising an upright drill-head support provided with an upright arcuate guideway, an upright series of drill-heads mounted on said guideway and adjustable along said guideway relative to each other, drill spindles mounted for rotation on said drill-heads, in combination with an upright housing separate from and in rear of said support, an upright main drive shaft in said housing, an upright series of substantially horizontal sub-drive shafts in said housing and geared to said main drive shaft, and drill driving means including longitudinally expansible shafts for connecting the said drill driving means and also including means to permit individual adjustment of the drill-heads along the arcuate guideway without interfering with the drill driving means.

1,678,000. ADJUSTABLE DIE HOLDER. JOHN J. BOAX, McKeesport, Pa., assignor to National Tube Company, a Corporation of New Jersey. Filed Oct. 26, 1926. Serial No. 144,304. 5 Claims. (Cl. 10—89.)

1. The combination with a die shoe holder, and a pair of die shoes pivotally supported at one end on said die shoe holder, of means associated with the other end

of said die shoes for moving said die shoes about said pivotal supports, said means including a nut revolvably mounted in each of said shoes, an adjusting screw member having right and left-hand threaded portions in

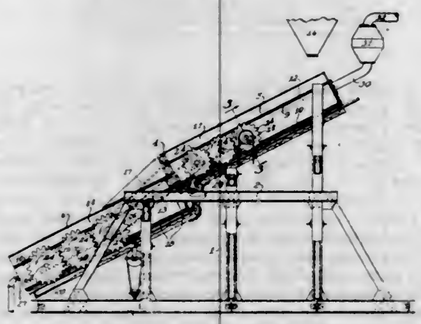


threaded engagement with said nut members, one of said threaded portions being movable relative to the other so that said die shoes may be independently adjuated, and means for locking said threaded portions together for simultaneous operation.

1,678,001. PERMANENT-MAGNET STEEL. PORTER H. BRACE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1919. Serial No. 271,480. 13 Claims. (Cl. 175—21.)

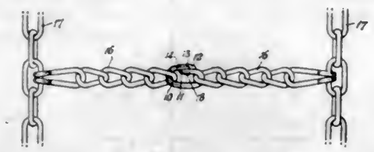
1. A magnetized member comprising substantially 1% to 10% cobalt, 1% to 10% of a metal of the chromium group and the remainder iron and minor impurities.

1,678,002. COMBINED MILL, CONVEYER, DRIER, AND CLASSIFIER. WALTER DUISENBERG, Los Gatos, and JOHN H. MACARTNEY, San Francisco, Calif. Filed Dec. 21, 1927. Serial No. 241,526. 14 Claims. (Cl. 83—11.)



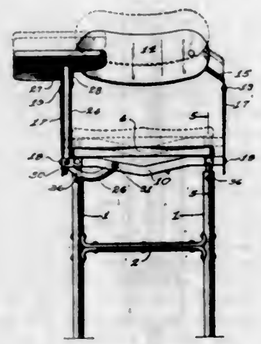
1. A device of the class described comprising superimposed elongated conveying surfaces mounted at an incline and downwardly over which material passes by gravity, a grizzly at the upper end of the upper surface and through which material passes onto the upper end of the lower conveying surface, means for feeding material onto the grizzly, and a plurality of material disintegrating mill members rotatably mounted between the surfaces to coact with the surfaces to crush the material passing through the grizzly in its travel downwardly over the lower surface.

1,678,003. REPAIR DEVICE FOR AUTO SKID CHAINS. FERDINAND G. FAHRBACH, Pelham Manor, N. Y. Filed Apr. 19, 1927. Serial No. 184,850. 1 Claim. (Cl. 59—85.)



A repair device for the cross-chains of anti-skid chains comprising a link of rubber having opposite ends overlapping each other in separable engagement for connecting said rubber link with the terminal links of a broken cross-chain, one of said ends being provided with an opening, and a pin embedded in the other of said link ends and projecting transversely therefrom for insertion into said opening whereby said link ends are detachably connected with each other.

1,678,004. CHAIR. WILLIAM S. FERRIS, Elkhart, Ind. Filed Jan. 8, 1924. Serial No. 685,005. 3 Claims. (Cl. 155—128.)



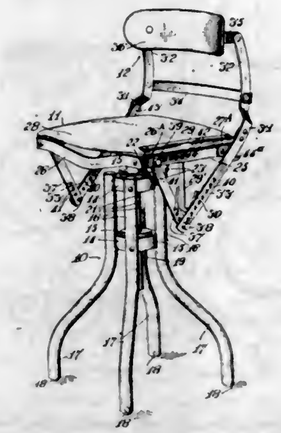
1. A chair embodying therein a plurality of legs, a rectangular metallic seat frame including side and front frame members, a tablet disposed above one side of the frame, an upright member secured at its top end to the front end of the tablet and having a curved bottom end disposed below the seat frame and secured to the front member thereof at a plurality of points and a second upright member secured at its top end to the rear end of the tablet, and at its bottom end to the side member of the frame.

1,678,005. BAIL HANDLE. FRANK W. A. HALLERMAN, St. Louis, Mo. Filed June 12, 1925. Serial No. 36,570. 2 Claims. (Cl. 220—94.)



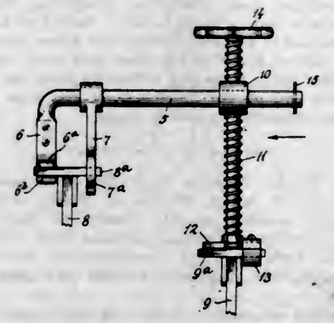
1. A bail handle, comprising, a resilient strip curled to provide a handle and having a recess therealong to receive the bail, and having a pair of inturned flanges along said recess, adapted to clamp the bail between said flanges.

1,678,006. METALLIC CHAIR, STOOL, SEAT, AND THE LIKE. FREDERICK H. HEADLEY, Northfield, near Birmingham, England. Filed Jan. 19, 1924, Serial No. 687,184, and in Great Britain Sept. 18, 1923. 6 Claims. (Cl. 155—155.)



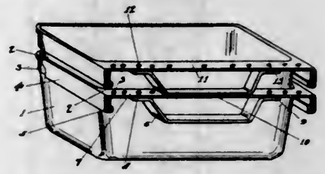
1. In a chair or the like, the combination of a seat frame, a seat member carried thereby, a back rest frame comprising two laterally spaced arms, a brace bar and a back rest member connecting the top ends of said arms together, links connecting the bottom ends of said arms with the front end of the seat frame, a hook member depending from the rear end of the frame at its middle and hook devices carried on the inner surfaces of said arms below the brace bar and adapted to hook over parts of the seat frame near its rear end to hold the back rest frame in its operative position, said hook devices being capable of being disengaged from the seat frame so that said back rest frame may be swung downwardly into a position below the seat frame, wherein the brace bar engages the depending hook member to support the back rest frame in this last mentioned position.

1,678,007. ATTACHMENT FOR AUTOMOTIVE VEHICLES. JOHN J. HILLERY, Boonton, N. J. Filed Dec. 22, 1926. Serial No. 156,438. 3 Claims. (Cl. 29—84.)



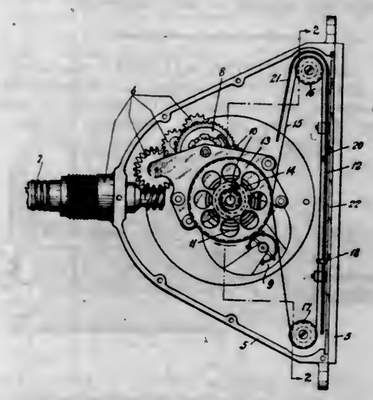
1. An attachment of the kind described comprising a supporting rod, a clamping device at one end of said rod for clamping it upon the pedal of an automotive vehicle, a yoke slidably mounted upon said rod for engagement with said pedal to fix said rod in position thereon and pressure developing means adjustably carried by said rod for depressing an adjacent pedal of said automotive vehicle.

1,678,008. BAKING PAN. JOSEPH GEORGE JACKSON, Chicago, Ill. Filed June 8, 1927. Serial No. 197,387. 4 Claims. (Cl. 53—6.)



3. In a baking pan a flat deck portion extending horizontally an appreciable distance and surrounding said pan and a depending spacing member attached to said deck portion.

1,678,009. STRAIGHT-LINE INDICATING MECHANISM. JOSEPH LEOPOLD, New York, N. Y., assignor to Consolidated Instrument Company of America, a Corporation of New York. Filed Aug. 14, 1926. Serial No. 129,205. 6 Claims. (Cl. 235—104.)



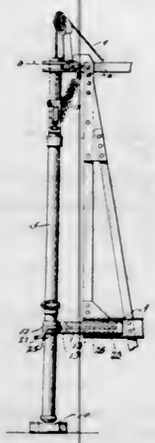
5. In association with a plane chart and an index rectilinearly movable thereover, a guide member parallel to the chart, said guide member being adapted to control the normal travel of the index between the limits of the chart and the abnormal travel thereof beyond one of said limits.

1,678,010. CRANE ATTACHMENT. ERICH H. LICHTENBERG, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed May 8, 1923. Serial No. 637,594. 12 Claims. (Cl. 212—50.)

1. In combination, a support, a crane thereon embodying a horizontally swinging boom, a load engaging apparatus on said boom, a mast supporting the boom and mounted out of true vertical line so as to automatically cause swinging of the boom in one direction, cable operating means for the load engaging apparatus for raising a load and thereby initiating said swinging movement of the boom in one direction, and means for causing a swinging movement of the boom in another direction, adapted to have its operation initiated by action of said cable means.

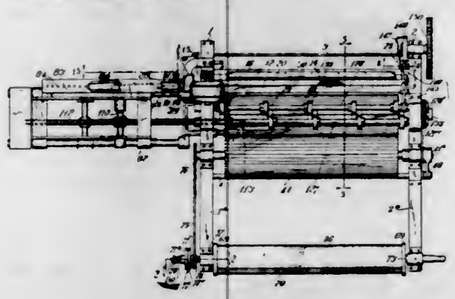
12. In combination, a portable machine comprising a framework, a crane attachment carried thereby and em-

bodying a boom, cable hoisting means associated with said boom for raising loads to be handled by the attachment, a bracket co-operating to support said crane attach-



ment on the portable machine, and means for adjusting said bracket longitudinally of the framework of said machine and also laterally of said framework.

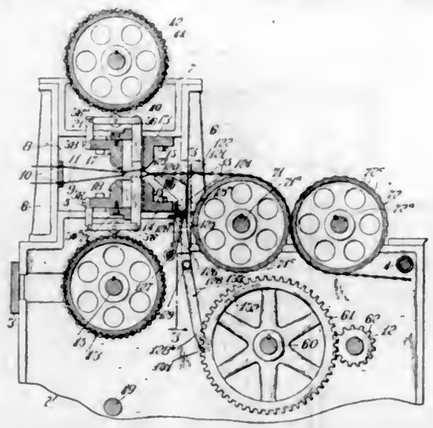
1,678,011. REED-WEAVING MACHINE. MARSHALL B. LLOYD, Menominee, Mich., assignor to Heywood-Wakefield Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 29, 1925. Serial No. 53,281. 21 Claims. (Cl. 139—28.)



1. A reed weaving machine embodying therein, means for forming a plurality of strands into a shed, means for introducing stakes into said shed, and means for straightening each stake when in the fabric and at a plane spaced from that of its introduction into the shed.

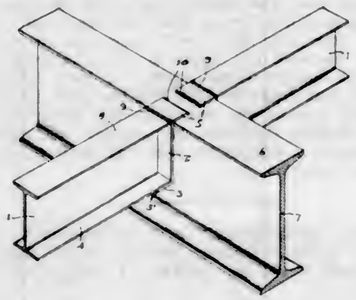
1,678,012. REED-WEAVING MACHINE. MARSHALL B. LLOYD, Menominee, Mich., assignor to Heywood-Wakefield Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 14, 1925. Serial No. 56,139. 17 Claims. (Cl. 139—28.)

1. A reed weaving machine embodying therein, sets of top and bottom strand manipulating members adapted to engage portions of alternate and intermediate strands respectively and to move them from one side to the other and vice versa of a neutral plane to form successive sheds, a cylinder disposed above and associated with the top strand manipulating members and a second cylinder disposed below and associated with the bottom strand manipulating members, said cylinders each having such a contour as to impart movement to all of its associated manipulating members for a predetermined time, and less than all of said members at another time to form a shed



wherein adjacent alternate and intermediate strands are in the same common plane, and means for inserting stakes into said sheds.

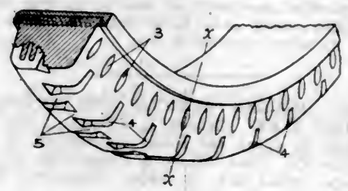
1,678,013. STRUCTURAL-STEEL FABRICATION. ROBERT L. MCINTYRE, Toronto, Ontario, Canada. Filed Aug. 2, 1926. Serial No. 126,676. 4 Claims. (Cl. 189—36.)



1. A structural steel fabrication, comprising in combination with a beam a metal member formed of Z-shape abutting the end of the beam having one flange extending under the bottom flange of the beam and fused thereto, and the other flange extending outwardly from the beam, the abutting end of the top flange of the beam being fused to the outwardly extending flange.

1,678,014. TIRE. CHARLES M. MANLY, Richmond Hill, N. Y.; John M. Manly, William G. Manly, and Basil M. Manly, executors of said Charles M. Manly, deceased, assignors to Overman Cushion Tire Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 4, 1922. Serial No. 579,646. 4 Claims. (Cl. 152—1.)

1. A cushion tire having a series of deep spaced apart transverse clefts extending radially into it from the tread and extending laterally from the middle portion through its right and left sides alternately; and a series of spaced apart cavities extending transversely through the radially-outer ends of said cavities being located in subsection a long radially-extending dimension and a short circumferentially-extending dimension, said cavities alternating in circumferential location with said tread-

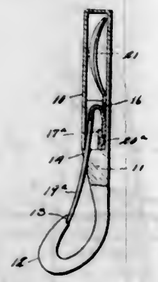


clefts, the radially-inner ends of said clefts and the radially-outer ends of said cavities being located in substantially the same cylindrical zone of the tire.

1,678,015. METHOD OF MAKING INNER TUBES. ERNEST W. MELVIN, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Dec. 17, 1924. Serial No. 756,622. 1 Claim. (Cl. 18—53.)

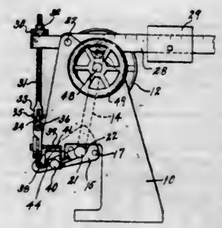
The method of making inner tubes for pneumatic tires which comprises, tubing the stock to desired shape but of a cross sectional diameter less than the cross sectional diameter of the mandrel upon which it is to be cured by an amount such that when the tube is stretched upon the mandrel the tendency of the tube to hug the mandrel is sufficient by and of itself to prevent the penetration of the vulcanizing fluid between the tube and the mandrel, stretching the so formed tube onto the mandrel and subjecting the tube to vulcanization.

1,678,016. KEY-RING HOLDER. ROBERT F. MENKE, Bessmay, Tex. Filed Dec. 31, 1927. Serial No. 243,955. 7 Claims. (Cl. 24—3.)



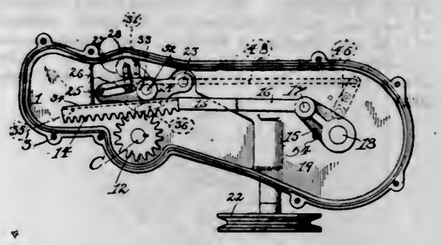
1. A key ring holder of the character described comprising a belt loop, a snap hook extending from one end of the belt loop and having a returned bill, a belt-retaining spring disposed within the belt loop, the spring having a base fitting within the belt loop adjacent the snap hook and attached to the belt loop, said base being formed with an integral, longitudinally extending, outwardly curved belt-retaining spring.

1,678,017. FLEX-TESTING MACHINE. THOMAS MIDGLEY, Hampden, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Apr. 25, 1924. Serial No. 709,040. 4 Claims. (Cl. 73—51.)



1. The method of testing material comprising arranging strips of the material in a cruciform test piece so as to form a central multi-ply portion, and rapidly flexing the test piece back and forth at this central portion over a member without substantial slipping between the member and the test piece.

1,678,018. GEARING FOR WASHING MACHINES. GLENN MORE and GUNNARD OBERG, Jamestown, N. Y., assignors to The Blackstone Mfg. Co., Jamestown, N. Y., a Corporation of New York. Filed Feb. 3, 1926. Serial No. 85,760. 5 Claims. (Cl. 74—14.)

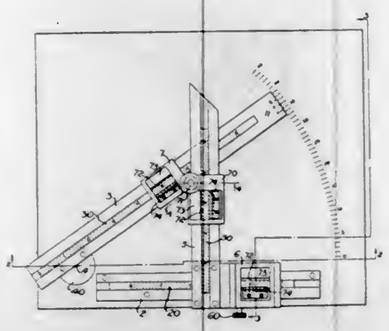


1. A gearing for washing machines comprising a fixed support, an upright shaft operatively mounted therein, a spur gear on said shaft, an arm pivotally mounted on the support and provided with two spaced apart, projecting members, a rack bar provided with a flange and adapted to reciprocate between said members, means for actuating the rack bar and manually operated means for actuating the pivoted arm, whereby the rack bar is shifted into and out of mesh with said gear, one of the projecting members of the pivoted arm being a flange with which the flange of the rack bar has sliding contact.

1,678,019. CALCULATING DEVICE. NORFORD L. OATES, Seattle, Wash. Filed July 22, 1927. Serial No. 207,658. 2 Claims. (Cl. 33—97.)

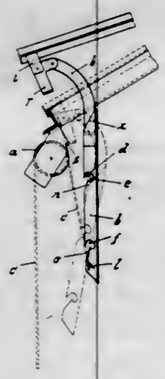
1. An instrument for solving right angled triangles comprising a base having an arcuate scale, three bars positioned to represent the three sides of a right angle triangle, one of said bars being pivoted at the center of the arcuate scale, a second bar being fixed upon the base in parallelism with an adjacent side of a triangle of which said center is an apex, means for slidably connecting said third bar to the fixed bar, said means holding said third bar at right angles to the said fixed bar, all of said bars having thereon scales which for the pivoted and for the fixed bars are based upon the

apex of the triangle represented by the said pivot point and for the third bar upon the side of the triangle to which it is perpendicular, two slides carried one by each movable bar and pivoted together at the intersection of



the two sides of the triangle represented by said two bars, said slides carrying indicia cooperating with the scales upon said two bars and each provided with a scale cooperating with the scale upon the respective bars to give vernier readings.

1,678,020. DEVICE FOR OPENING AND CLOSING ATTIC WINDOWS. FRITZ PETERSEN and HERMANN KAUSSMANN, Recklinghausen-Sud, Germany, assignors to Firm of: Tischler & Seichter, Recklinghausen-Sud, Germany. Filed Jan. 18, 1927, Serial No. 161,781, and in Germany May 6, 1926. 1 Claim. (Cl. 268—103.)



A device for opening and closing attic windows, comprising, in combination, a depending hook and a roller guide both fixed to the window frame, said roller guide having a notch therein, a roller in said roller guide, a knee-lever fulcrumed to the window and having a hook-shaped free foot end for engagement in said notch with closed window, an operating lever with notched front edge at its top end somewhat bent in forward direction and there pivoted to said knee-lever, said operating lever having a double bend and an inclined race at the upper end of its straight part facing said hook in the closed position of the window, counterhooks at the lower parts of the notches in the front edge of said operating lever, and a cord attached to the lower end of said operating lever and guided over said roller with its free end depending therefrom and adapted when pulled to unlock said knee-lever from its notch and to effect an engagement of said operating lever with said hook thereby holding the window in open position, and finally when further pulled to disengage the notched front edge of said lever from said hook and when released to effect a descent of said lever with its rear edge sliding along said hook until the lever again assumes its initial position of rest.

1,678,021. MOLDED ARTICLE AND METHOD OF MAKING SAME. GEORGE L. PREBLE, Lynn, Mass., assignor, by direct and mesne assignments, to Preble Box Toe Co., Lynn, Mass., a Corporation of Massachusetts. Filed Mar. 18, 1924. Serial No. 700,005. 5 Claims. (Cl. 91—68.)

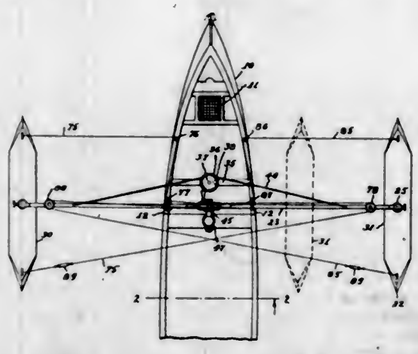


1. The method of making material for molded articles which comprises incorporating in fibrous material a cellulosic solution and comminuted absorptive substance, partially drying the material, compacting the material in sheet form, and then drying the material.

1,678,022. PROCESS FOR TREATING RUBBER LATEX AND PRODUCTS OBTAINED THEREBY. OMAR H. SMITH, New York, N. Y., assignor to General Rubber Company, New York, N. Y., a Corporation of New Jersey. Filed June 25, 1925. Serial No. 39,626. 15 Claims. (Cl. 18—50.)

1. A process for treating rubber latex which consists in thickening the latex with a buffer solution, separating water-soluble substances therefrom and recovering a purified dispersible product.

1,678,023. CANOE WITH STEERABLE PONTOON. JOSEPH D. STITES, Whitestone, N. Y. Filed July 9, 1926. Serial No. 121,406. 17 Claims. (Cl. 114—123.)

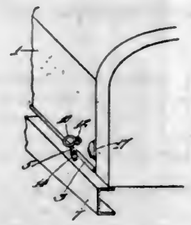


1. An attachment for a boat comprising supports extending from opposite sides of the boat; floats pivoted on said supports; and means for operating said floats; the center of the floats being to the rear of the center of the boat.

1,678,024. CONDENSATION PRODUCT AND METHOD OF MAKING THE SAME. CHARLES O. TERWILLIGER, Mount Vernon, N. Y., assignor to Fritz v. Briesen, trustee, New York, N. Y. Filed Oct. 17, 1924. Serial No. 744,283. 5 Claims. (Cl. 260—3.)

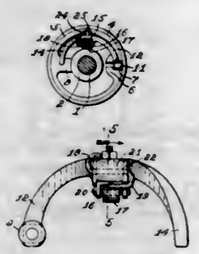
1. A method of making condensation products which comprises providing a solution containing urea, formaldehyde and a phenolic body, in which the ratio of 40% by weight aqueous formaldehyde to urea is less than 2.5 to 1.0, and heating the same to form a condensation product.

1,678,025. HOOD LATCH FOR AUTOMOBILES. MILLARD H. TONCRAY, Detroit, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed July 27, 1923. Serial No. 654,152. 4 Claims. (Cl. 292—114.)



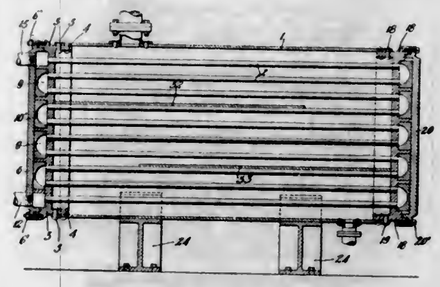
1. In combination with a bonnet for an automobile having an aperture, in its side above the lower edge thereof, of a latch therefor comprising a rod having a hook member at its upper end to engage said aperture, a spring exerting downward and inward pull on the rod and a rubber cushioning member surrounding the rod contacting with the lower edge of the bonnet and taking the inward thrust of the rod.

1,678,026. FRICTION CLUTCH. JOHN R. VOORHEES, Cedar Falls, Iowa. Filed Jan. 31, 1927. Serial No. 164,811. 2 Claims. (Cl. 192—78.)



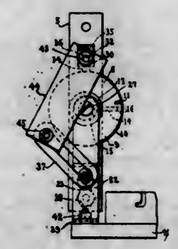
1. A friction clutch, comprising in combination, a rotatable shaft, an open cylindrical clutch-member mounted loosely non-slidably thereon, an elastic split-ring clutch-body fixed on said shaft within said clutch-member, a terminally coned sleeve slidably mounted upon said shaft adjacent said clutch-body, an arcuate arm astride of the coned part of said sleeve and having a squared termination seated between the separated ends of said split-ring clutch-body, spaced lugs on said arcuate arm, an arm pivotally mounted between said lugs, a pintle-rod connecting said lugs and on which said arm is mounted, an anti-friction roller on said arm, and said pintle-rod having its ends hooked to act as stops against unrestricted swinging of said arm, and means movably mounted on the arcuate arm for adjusting the position of the last-mentioned arm and roller relatively to said coned sleeve.

1,678,027. HEATER. CHARLES L. WAGNER, Boonton, N. J., assignor to C. L. W. Patents Corporation, a Corporation of New Jersey. Filed Mar. 28, 1925. Serial No. 19,016. 2 Claims. (Cl. 257—289.)



1. A heater comprising a shell, a header, tubes within said shell to conduct the medium to be heated, the ends of said tubes connected with said header, replaceable blocks within said header, said blocks forming chambers in said header, the walls of said chambers being curved to change the direction of flow of the medium to be heated from one tube to the next adjacent tube.

1,678,028. RESISTANCE-CONTROL APPARATUS. HENRY J. WIEGAND, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed July 18, 1923. Serial No. 652,462. 13 Claims. (Cl. 201—55.)

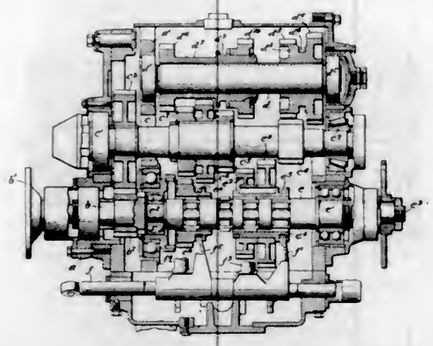


10. The combination with an insulating base, a resilient conductive clamping bracket secured thereto, a resistance element to be inserted and retained between said base and said bracket and means to electrically connect the resistor of said resistance element with said bracket, of a co-operating contactor for said resistance element, a conductive contactor support carried by said base and relatively adjustable, terminals carried by said support and said bracket to provide for mechanical securement and electrical connection of an associated control instrumentality.

1,678,029. SELECTIVE CHANGE-SPEED MECHANISM WITH TWO REVERSE GEARS. GOTTFRIED WIEBER, Plainfield, N. J., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed May 5, 1927. Serial No. 188,899 5 Claims. (Cl. 74—57.)

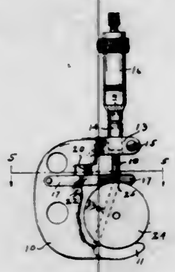
1. In a motor vehicle transmission of conventional design having a splined shaft, a countershaft, gears mounted thereon, a reverse shaft, sliding change speed

gears mounted on certain of the shafts, means to cause the slidable gears to cooperate selectively with the gears on the countershaft for operation of the vehicle in a plu-



rality of forward speeds and a reverse speed, means mounted on the reverse shaft and on the countershaft to provide selectively for an additional speed in reverse.

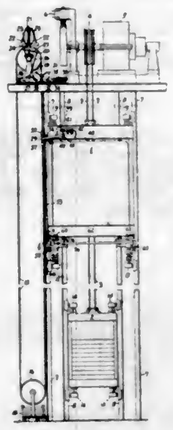
1,678,030. MICROMETER CALIPER. HORACE J. YOUNT, Indianapolis, Ind. Filed Aug. 9, 1927. Serial No. 211,817. 4 Claims. (Cl. 33—164.)



1. In a micrometer caliper, a caliper body, a micrometer head adjustably secured to the body, a bifurcated member extended from the body to form a pair of spaced anvils, an H-shaped jaw straddling said body by ite rear legs and pivoted thereby to said body, a spring bearing between said body and said jaw normally causing said jaw to swing toward said anvils, a shaft extending from said micrometer head, and said jaw having its forwardly projecting legs positioned to permit said shaft to pass therebetween.

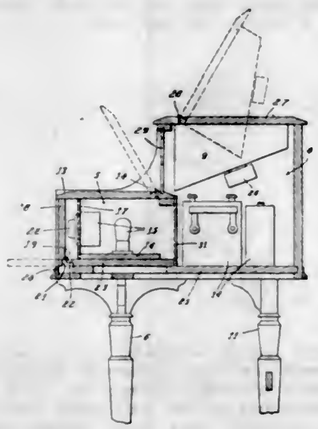
1,678,031. ELEVATOR SAFETY APPLIANCE. JOHN N. ANDERSON, Hoboken, N. J., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 17, 1926. Serial No. 129,748. 7 Claims. (Cl. 187—88.)

5. In an elevator system; a guide rail; a body movable along said guide rail; and a safety appliance for said movable body comprising, a housing carried by said movable body, two jaw members pivotally carried by said housing and arranged at opposite sides of said guide rail, a roller positioned between one jaw member and a side of the guide rail and movable with respect to the jaw member, a wedge positioned between the second jaw member and the other side of the guide rail and movable with respect to said second jaw member, mechanism for moving said roller with respect to the first jaw member to effect the operation of said safety appliance, motive means for causing said wedge to move with respect to the second jaw member to effect the release of said



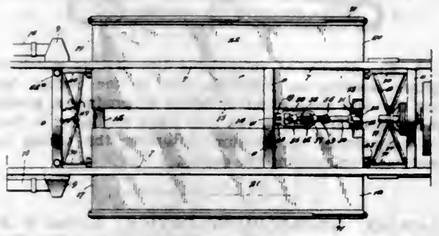
safety appliance, and spring means for resisting the movement of the wedge with respect to the second jaw member.

1,678,032. CONSOLE RADIOCABINET. JOHAN O. BERGMAN, Rockford, Ill., assignor to Rockford Novelty Furniture Company, Rockford, Ill., a Corporation of Illinois. Filed Apr. 9, 1926. Serial No. 100,781. 2 Claims. (Cl. 312—7.)



2. A radio cabinet comprising a base, a cabinet thereon providing a shallow front radio instrument compartment extending widthwise thereof, and a relatively deep rear compartment therebehind for battery and other storage purposes having a front wall projecting above said front compartment at the rear thereof provided with a grilled opening, a lid for said rear compartment, and a horn mounted on said lid to swing into and out of said compartment and normally terminating adjacent said grilled opening.

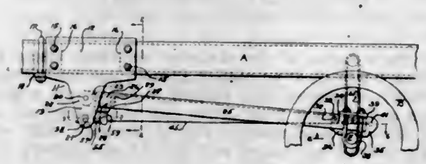
1,678,033. STORAGE-BATTERY CONTAINER. ANDREW K. BRUMBAUGH, Ardmore, Pa., assignor to The Autocar Company, Ardmore, Pa., a Corporation of Pennsylvania. Filed Feb. 23, 1924. Serial No. 694,662. 11 Claims. (Cl. 180—68.5.)



10. A battery carrier for vehicles comprising a battery supporting frame, rigid means connected to said frame and adapted for connection to a part of the vehicle, whereby said frame will be capable of horizontal reciprocation, and means for yieldably controlling such movement of said frame.

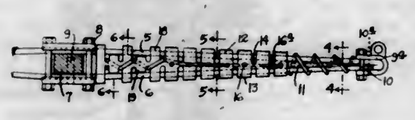
11. Means for carrying a storage battery beneath the frame of a motor-vehicle, comprising a rigid support, rigid hangers adapted for swingably connecting each end of said support to the vehicle frame and means yieldable in the direction of movement of said support to control such movement.

1,678,034. RESILIENT SUPPORT. ROBERT W. DAVIS, Ozone Park, N. Y., assignor to himself and Zeno Littman, New York, N. Y. Filed Mar. 31, 1923, Serial No. 629,088. Renewed Oct. 31, 1927. 25 Claims. (Cl. 267—2.)



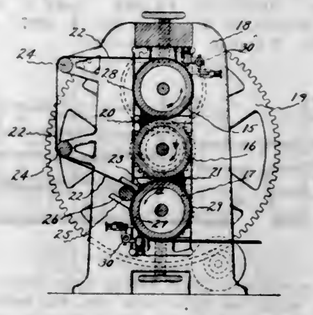
9. A resilient support including elements arranged for subjection solely to uni-directional tension and compression stresses respectively, said elements being respectively designed to permit stressing of their fibres up to a predetermined limit.

1,678,035. VEHICLE SPRING. ROBERT W. DAVIS, New York, N. Y., assignor to himself and Zeno Littman, New York, N. Y. Filed July 13, 1923, Serial No. 651,252. Renewed Nov. 25, 1927. 20 Claims. (Cl. 267—47.)



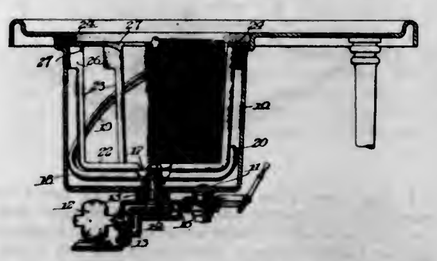
1. A spring comprising a plurality of leaves subjected to separate stresses of tension or compression, and means for holding said leaves definite distances apart thruout their lengths.

1,678,036. APPARATUS FOR CUTTING RUBBER SHEETS. CHARLES H. DESAUTELS, Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Apr. 19, 1926. Serial No. 102,930. 6 Claims. (Cl. 270—93.)



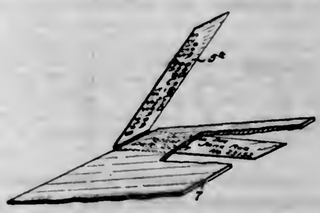
1. In combination, a roll for supporting a rubber sheet, means for cutting the sheet, and means for turning back upon itself the marginal portions of the sheet.

1,678,037. CLEANSING MACHINE. WILLIAM H. DUNN, Chicago, Ill., assignor to Dunn Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed July 19, 1920. Serial No. 397,406. 11 Claims. (Cl. 141—9.)



1. In a cleansing machine the combination of a fluid container, agitating means arranged in the container, a receptacle into which the articles to be cleansed are placed, said receptacle having means for directing the fluid towards the center of the container, said means having portions which extend into the path of the fluid arranged between the container and the receptacle.

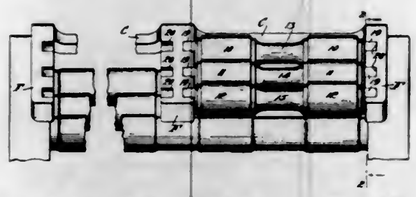
1,678,038. METHOD OF MARKING X-RAY FILMS. PHILIP K. EATON, Olympia, Wash. Filed May 9, 1927. Serial No. 189,953. 2 Claims. (Cl. 250—34.)



1. The method of marking an X-ray film which consists in placing against the two surfaces of an X-ray film a paper which has two pieces of written matter thereon, said written matters being placed directly opposite each other and being the same in all respects except that one

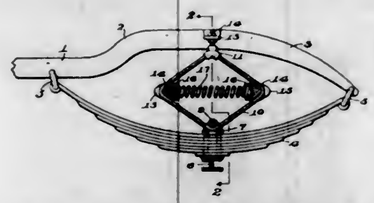
is reversed with respect to the other, each of such written matters lying in direct contact with one surface of the film, and then subjecting the film to the action of the X-ray.

1,678,039. SPINNING FRAME. JOHN P. GAREY, Elmira Heights, N. Y. Filed Feb. 4, 1927. Serial No. 165,787. 5 Claims. (Cl. 19—142.)



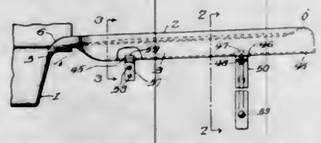
1. In a spinning frame having upper rolls, and lower rolls on which the upper rolls rest, the combination of metal upper rolls and non-metallic bearing pieces engaging said rolls and holding them parallel to the axes of the lower rolls.

1,678,040. SHOCK ABSORBER FOR VEHICLES. MARTIN E. GREENHOUSE, Philadelphia, Pa. Filed Apr. 2, 1927. Serial No. 180,360. 7 Claims. (Cl. 267—28.)



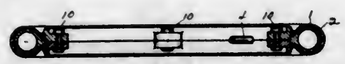
1. The combination of a vehicle, an axle and a spring operatively connecting and tending to separate said vehicle and axle, with a shock absorber in turn comprising a pair of flexible elements connected at one end to the vehicle and at their other ends to the axle, and a resilient member extending between said elements intermediate of their ends, mounting blocks engaging said elements intermediate their ends on which said spring is solely supported, said spring serving to hold the blocks in engagement with the elements and operative to separate their intermediate portions, thus drawing their respective opposite ends together and partially counterbalancing the tension of said member.

1,678,041. DRAIN BOARD. WILLIAM U. GRIFFITHS, Philadelphia, Pa. Filed Mar. 3, 1924. Serial No. 696,719. 5 Claims. (Cl. 141—11.)



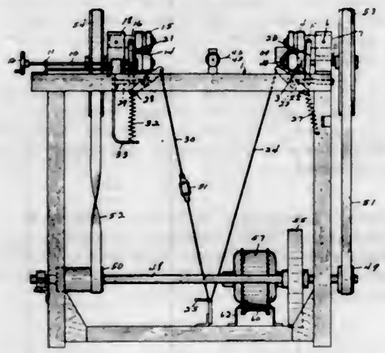
1. In a drain-board structure, in combination, a drain-board having depending flanges at its opposite side edges from the lower edges of which inwardly extending flanges project, a cross bar secured to the inwardly extending flanges at points approximately midway of the opposite ends thereof, a bracket secured to said cross bar and to a support, and means for preventing tilting movement of the said drain-board with respect to the said bracket.

1,678,042. VULCANIZING. RAYMOND HANSEN, Cudahy, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Oct. 24, 1924. Serial No. 745,610. 2 Claims. (Cl. 18—53.)



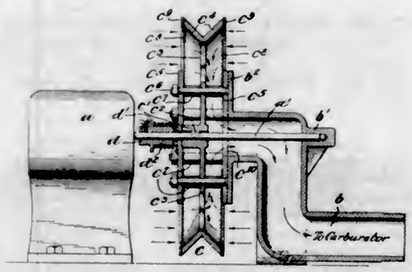
1. The process of vulcanizing tire casings which comprises securing an inflatable core in the casing, inflating the core an amount sufficient to produce a predetermined pressure within the core when the latter is heated to vulcanizing temperature, inserting the casing in a mold and vulcanizing the casing.

1,678,043. BEAD-FORMING DEVICE. DANIEL E. HENNESSY, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Jan. 12, 1924. Serial No. 685,818. 5 Claims. (Cl. 154—9.)



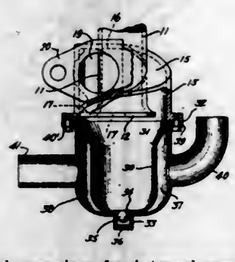
1. In a device of the character described means for folding a web about an endless angular core comprising a plurality of grooved rolls adapted to engage the angular edges and adjacent faces of the core to progressively apply the web longitudinally around the core, said rolls being adapted to support said core at substantially diametrically opposed points.

1,678,044. AIR FILTER. EDWARD R. HEWITT, Midvale, N. J., and ALFRED F. MASURY, New York, N. Y., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 8, 1926. Serial No. 93,024. 3 Claims. (Cl. 183—77.)



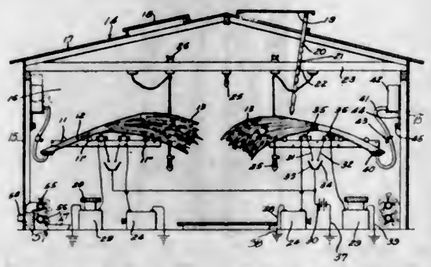
1. In a filtering device, a hollow rotor, the outer side thereof formed as outwardly diverging walls extending from an inwardly located apex to the outer end extremities of each transverse side of the rotor, screens mounted in the transverse sides thereof, means to withdraw a filtered medium from the interior of the rotor and means to rotate the same.

1,678,045. FUEL VAPORIZER. WILLIAM H. HILL, Canton, Ohio. Filed July 16, 1925. Serial No. 43,958. 2 Claims. (Cl. 48—180.)



1. In a fuel vaporizer for internal combustion motors, an intake manifold, a housing cast integral with said intake manifold, enclosing the inlet end thereof and itself having a flanged open side, a stamped metal receptacle having a flanged open end adapted to abut the flanged open end of the housing, a tubular extension projecting from said stamped metal housing and formed with a valve seat, a valve member adapted to engage said seat, a second stamped metal receptacle adapted to enclose the first-mentioned receptacle in spaced relation thereto and provided with an opening for the reception of said tubular extension, a flange formed integral with said second-mentioned receptacle and adapted to abut the flange of the first-mentioned stamped metal receptacle, and means for securing all of said flanges together.

1,678,046. PROCESS FOR MATURATION OF FRUIT. DYER B. HOLMES, Los Angeles, Calif. Filed Jan. 19, 1926. Serial No. 82,283. 2 Claims. (Cl. 47—58.)

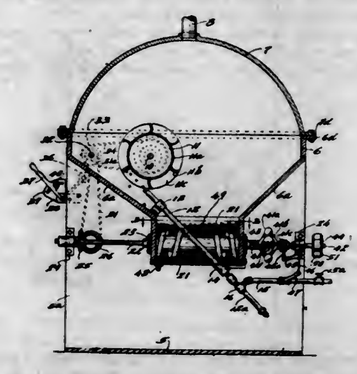


1. A method of conditioning soft and edible fruits containing sugar and growing in clusters which comprises: cutting the cluster stems thereof at a time when the first units are approximately ripe; removing the same to an enclosure and maintaining the same in artificial conditions more continuously favorable to a desired effect than are thereafter provided in nature; and subsequently picking said fruit units from said cluster stem,—said cluster stems being controllably supplied with a nutrient solution simulating the natural juice thereof

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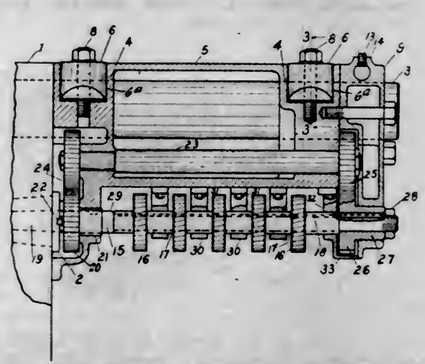
1,678,047. MOTOR USING PROJECTILES. JOSEPH C. JOHNSTON, Minneapolis, Minn. Filed June 3, 1925. Serial No. 34,628. 3 Claims. (Cl. 60—40.)

1. A motor having in combination, a casing having walls converging toward the bottom thereof, an impulse wheel in said casing, a pipe below said wheel and alined therewith, a multiplicity of balls in said casing, said pipe having a lateral opening therein adapted to receive said balls, means communicating with said pipe below said opening for supplying steam thereto, a plunger carrying a valve adapted to close the lower end of said pipe to prevent said balls passing downward there-



in, a piston in said pipe below said means for supplying steam and attached to said plunger, and a spring below said piston normally urging said valve to closed position whereby when said steam is admitted to said pipe said piston will be depressed against the pressure of said spring and said valve opened.

1,678,048. MILLING-MACHINE ARBOR DRIVE AND SUPPORT. EDWARD J. KEARNEY, Wauwatosa, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis., a Corporation of Wisconsin. Filed Feb. 28, 1925. Serial No. 12,254. 3 Claims. (Cl. 90—18.)

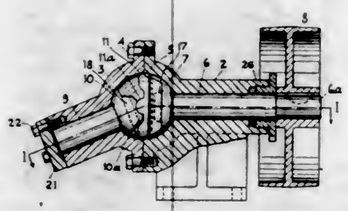


1. In a milling machine the combination of a column, a tool spindle journaled therein, a housing removably supported from said column, a tool arbor journaled in said housing, and transmission mechanism connecting said arbor to be driven at opposite ends from said spindle including a shaft and gearing rotatably supported from said housing, said shaft and gearing being adapted to materially reduce the torsional deflection of said arbor.

1,678,049. FLUID-CONTROL DEVICE. EDWARD J. KEARNEY, Wauwatosa, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis. Filed May 26, 1926. Serial No. 111,727. 7 Claims. (Cl. 103—134.)

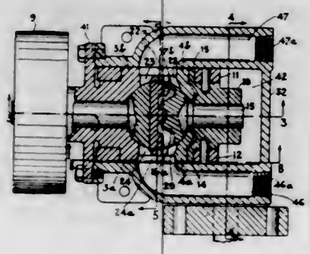
1. A device of the nature disclosed comprising a housing having interior wall surface portions substantially corresponding to surface portions of a sphere, a

plurality of members rotatable therein about different axes in a common plane and intersecting at the center of said sphere, a member positioned between the other members for rotation therewith and pivoted for oscillation relative thereto about different axes respectively and intersecting at the center of said sphere; whereby chambers are formed within said housing and alternately expanding and contracting during rotation of said members, said housing providing ports respectively positioned on opposite sides of said plane and said members being formed to close the one port from the other, said



other members being free for axial movement away from the intermediate member whereby thrusts set up by the oscillatory movement thereof may cause adjacent surfaces of said other members and the interior housing wall to fit closely together during rotation to substantially prevent fluid leakage from one to the other of said ports between said adjacent surfaces, the intersecting axes of said other members forming an angle substantially less than 45 degrees whereby to limit the pressure between said adjacent surfaces.

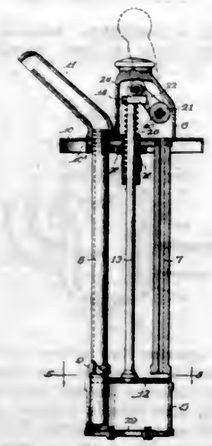
1,678,050. ADJUSTABLE FLUID-CONTROL DEVICE. EDWARD J. KEARNEY, Wauwatosa, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis., a Corporation. Filed June 7, 1926. Serial No. 114,116. 25 Claims. (Cl. 103—120.)



1. A device of the nature disclosed comprising a housing defining portions of a variable volume chamber, a member relatively oscillatable within said housing to vary the volume of said chamber, and a part relatively rotatable within said housing to oscillate said member; said part being bodily adjustable to change the amount of oscillatory movement of said member.

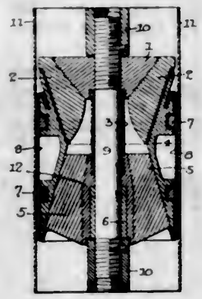
1,678,051. DISPENSING PUMP. CHARLES L. BASTIAN, Chicago, Ill., assignor to The Bastian-Blessing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 1, 1926. Serial No. 151,947. 3 Claims. (Cl. 225—35.)

1. In a dispensing pump, the combination of a charge chamber, a discharge tube leading from the chamber, a plunger operating in the chamber, a plunger rod connected to the plunger, a cap on the upper end of the plunger rod, a head enclosing the capped end of the plunger rod, a handle rotatably mounted outside of said head, lever devices operated by said handle and unconnected with said cap but operating thereon during ro-



tatable movement of said handle for depressing the plunger and plunger rod, and a spring for returning the plunger and plunger rod to normal position.

1,678,052. FLUID PUMP. MARK BENNITT, San Francisco, Calif. Filed Nov. 6, 1922. Serial No. 599,436. 8 Claims. (Cl. 103—89.)

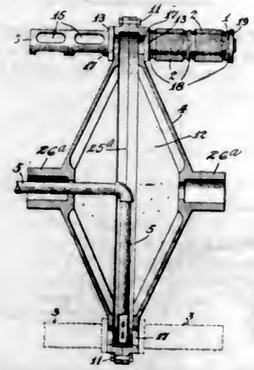


1. In a rotary pump unit, the combination of a shaft, a tapered rotor mounted thereon having spiral impeller blades, a rotor-seat for said rotor loosely mounted on said shaft and inwardly tapered to correspond to the tapered rotor and a collar on said shaft to support said rotor-seat.

1,678,053. MEANS FOR WASHING OR DYEING MATERIAL. JULIUS BRENZINGER, Fairfield, Conn., assignor to The Max Ams Chemical Engineering Corporation, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 12, 1925. Serial No. 75,093. 6 Claims. (Cl. 8—19.)

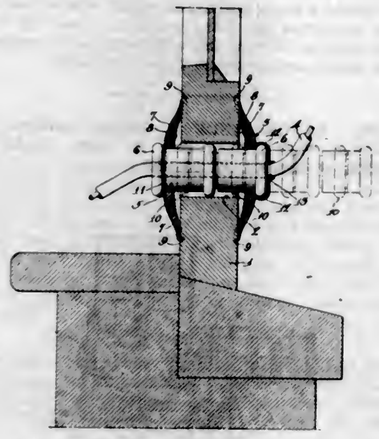
1. A washing or dyeing machine including: a tank for containing a body of treating fluid, a hollow member mounted to rotate, on a horizontal axis, in said tank, a hollow, perforated work-holder carried by said

member, the interior of the work-holder communicating with the interior of the member, a non-rotatable exhaust pipe extending from a point outside the tank into the



member in line with its axis of rotation and then interiorly of said member toward the bottom of the tank, and a suction device associated with said exhaust pipe.

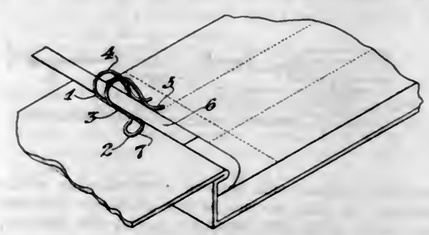
1,678,054. TUBULAR INSULATOR. EDWARD H. BUCKLEY, Philadelphia, Pa. Filed Oct. 27, 1925. Serial No. 65,081. 3 Claims. (Cl. 173—311.)



1. In an insulator of the character described, a tube adapted to pass through an opening in a support, a shoulder formed on the end of the tube, and an elastic cupped washer on the tube and adapted to abut the shoulder and a face of the support; said washer being imperforate except for a central tube receiving aperture whereby the washer will seal the opening through which the tube passes.

1,678,055. CHECK-BOOK CLAMP. JOSEPH C. BUECHLER, Hague, N. Dak. Filed Nov. 26, 1926. Serial No. 150,884. 1 Claim. (Cl. 24—66.)

A device of the kind described comprising a single strand of resilient wire bent medially its ends so as to have its intermediate portions extending in a common plane in spaced and parallel relation, the medial portion of the strand being bent at right angles to the common plane of the intermediate portions, each of the terminal portions of the strand being bent in the form of a clamping loop, each loop being in a plane at right angles to the common plane of the intermediate portions and normally closing upon the said common plane, the end of each loop being flared outwardly from its corresponding intermediate portion so as to fall laterally outside of the same, and being also curved out-

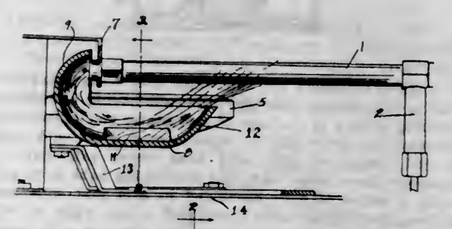


wardly from the said common plane so as to facilitate the entrance of used check stubs into the said clamping loops.

1,678,056. PROCESS FOR MAKING A MEAT CURATIVE. SALADINE EUGENE COLGIN, Dallas, Tex. Filed Apr. 21, 1926. Serial No. 103,646. 1 Claim. (Cl. 99—1.)

A process for producing a meat curative consisting in first mingling salt, sugar, saltpeter, black and red pepper, and soda until a thorough admixture of all of the ingredients is obtained, after which pyroligneous acid is sprayed on the mass during the presence of heat and the mass agitated until thoroughly dry.

1,678,057. PRIMING DEVICE FOR HYDROCARBON BURNERS. WILLIAM C. COLEMAN, Wichita, Kans., assignor to Coleman Lamp and Stove Co., Wichita, Kans., a Corporation of Kansas. Continuation of application Serial No. 618,056, filed Feb. 9, 1923. This application filed Sept. 12, 1925. Serial No. 56,079. 8 Claims. (Cl. 158—83.)

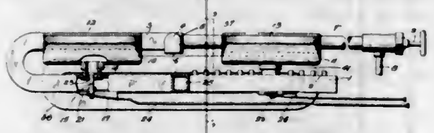


1. In a burner unit for liquid hydrocarbons, a vaporizing tube and a priming cup, the priming cup comprising an elongated body having a concave, upstanding wall projecting from the edge of one end thereof, and having a shorter, inclined wall at the other end, the inner surface of the shorter inclined wall being symmetrical with the lower portion of the other wall with reference to the bottom, the surfaces of the two walls and bottom being so formed that liquid delivered against the inner surface of the upstanding wall will be directed through the cup in easy stream lines without appreciably decreasing its velocity so that the combusted fuel will impinge upon the vaporizing tube in the form of a hot blast.

1,678,058. LIQUID-HYDROCARBON BURNER. WILLIAM C. COLEMAN, Wichita, Kans. Filed Oct. 6, 1925. Serial No. 60,759. 3 Claims. (Cl. 158—61.)

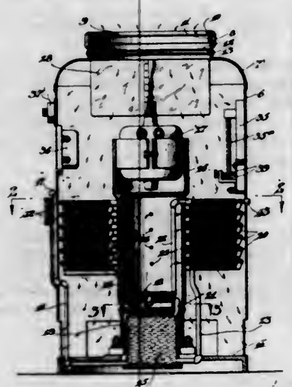
1. A burner comprising a manifold, a goose neck at one end of the manifold to provide a mixing chamber, elongated ported elements for the passage of air into the mixing chamber, a vaporizing tube communicating with the mixing chamber, horizontal burners above the manifold, one of said burners lying on either side of the mixing chamber, another of said burners having ports lying

on both sides of the generating tube, jets on the manifold in line with and below the generating tube, horizontally disposed conduits communicating with the manifold, and



vertically disposed side burners communicating with the conduits, the side burners having discharge openings in their outer faces, and means for valving the burners.

1,678,059. HEATER. WALTER H. D'ARDENNE, Philadelphia, Pa. Filed Dec. 8, 1926. Serial No. 153,321. 6 Claims. (Cl. 219—39.)



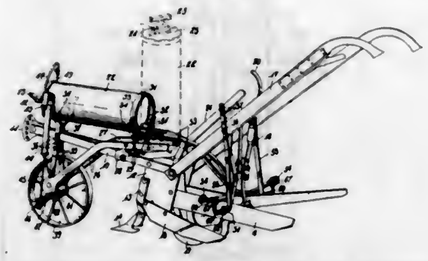
1. In combination air and water heater, an outer casing, a top portion telescoped thereon having a screened opening, a tank in the base of said heater and connections therefor, an electrical unit superimposed above said tank, a coil connected with said tank above said unit, a chamber above said tank and enveloping said unit and coils, a series of coils connected to said first coils and surrounding the chamber, apertures in the walls of said chamber for air therein to reach said series of coils, automatic means for causing said unit to heat said reservoir and first coils to cause a circulation of water in connection with said series of coils, said unit heating the air in said chamber, and means for sucking in air from the atmosphere surrounding said heater through said opening in the top portion, circulating it through the heater, and emitting it through openings adjacent the base of the casing.

1,678,060. SHEET-GLASS-PRODUCING APPARATUS. JOHN L. DRAKE, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed June 21, 1926. Serial No. 117,280. 14 Claims. (Cl. 49—17.)



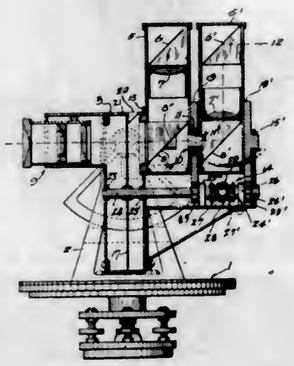
1. In sheet glass apparatus, means for drawing a sheet upwardly from a mass of molten glass, and a flattening member for said sheet arranged after the drawing means, the peripheral speed of the drawing means being relatively slower than the peripheral speed of the flattening member.

1,678,061. INSECTICIDE DISTRIBUTOR. EDWARD FOWLER and JOHN VICTOR LEWIS, Chattanooga, Tenn. Filed Jan. 16, 1923. Serial No. 612,913. 7 Claims. (Cl. 299—30.)



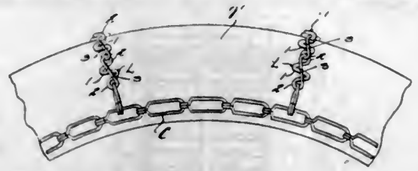
1. An insecticide distributor comprising a wheeled vehicle, an elongated container for the insecticide, means for normally supporting said container in horizontal position, said means comprising a pivotal connection between one end of said container and the vehicle and a rest on the vehicle for the other end of the container, said container having a filling opening at its end remote from said pivotal connection and being swingable about the latter into an upright position, and a delivery nozzle supported by said vehicle and connected to said container.

1,678,062. RANGE FINDER. GRAVES GRIFFITH, San Francisco, Calif. Filed Oct. 11, 1926. Serial No. 140,863. 8 Claims. (Cl. 88—2.7.)



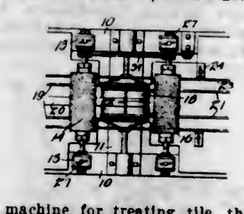
1. A light reflective element of prism form having centrally and exteriorly of its reflective face and cemented thereto a light transmissive cylindrical element fashioned to conform to said face and having its entrant face in parallelism with that of the emergent face of said prism, a reflective prism element in co-operative association with said cylindrical element and having the axis of reflection of its reflective surface in co-axial alignment with the axis of said cylindrical element, and a tubular connecting means revolubly uniting said prism elements and adapted to permit their rotation in opposite directions through quadrant and about said co-axis as the axis of rotation.

1,678,063. CROSS MEMBER FOR NONSKID CHAINS. EDWIN J. HERCHERT, Guttenberg, Iowa. Filed Mar. 5, 1927. Serial No. 173,124. 1 Claim. (Cl. 59—90.)



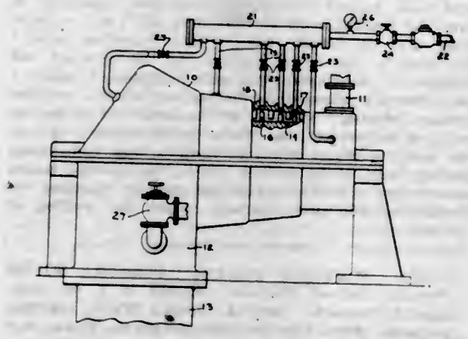
A chain link consisting of a continuous strand formed in the general shape of a loop, said loop having a Z-shaped side bar and a straight side bar, said bars being disposed in parallel planes, said strand having eyes formed at the ends of the loop, said eyes being disposed in the plane of the Z-shaped bar, and having at their inner sides laterally disposed shank portions which merge with the ends of the straight side bar.

1,678,064. MACHINE FOR TREATING TILE. LOUIS S. JONES, GARFIELD W. FISHER, and CARL G. HENRIKSON, Anderson, Ind., assignors to The National Tile Company, Anderson, Ind., a Corporation of Ohio. Original application filed Mar. 20, 1925, Serial No. 17,079. Divided and this application filed June 23, 1927. Serial No. 200,996. 3 Claims. (Cl. 15—21.)



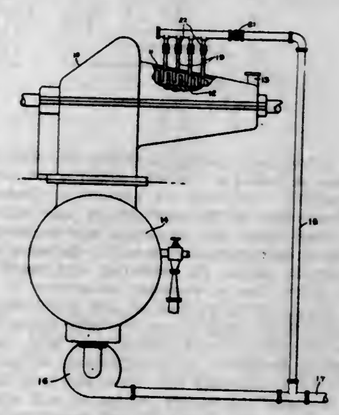
1. In a machine for treating tile, the combination of conveying means, means disposed above and below the conveying means for brushing the upper and lower faces of the tile during its movement, a second conveying means offset from the first mentioned conveying means, and a second set of brushes associated with the second conveying means for brushing the portion of the tile not operated upon by the first set of brushes, substantially as set forth.

1,678,065. TURBINE. CARL J. LAMB, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 17, 1925. Serial No. 37,732. 11 Claims. (Cl. 253—1.)



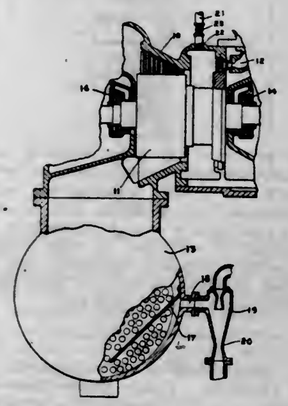
1. The combination with a multi-stage turbine having a rotor and a casing, of means for securing an even distribution of heat through the turbine along the rotor when idle, comprising a distributing manifold adapted to be connected to a source of gaseous medium under pressure, conduits leading from the manifold to the various turbine stages in the upper part of the turbine casing, and means for withdrawing the gaseous medium from the lower part of the casing.

1,678,066. TURBINE-COOLING MEANS. CARL J. LAMB, Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 4, 1925. Serial No. 66,830. 9 Claims. (Cl. 253—1.)



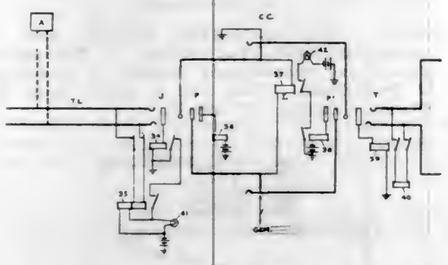
1. The combination with a turbine standing idle, of means for maintaining a circulation of liquid through said turbine.

1,678,067. TURBINE-COOLING MEANS. CARL J. LAMB, Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 4, 1925. Serial No. 66,831. 9 Claims. (Cl. 253—1.)



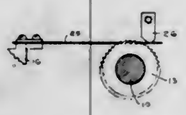
1. In a turbine, the combination of a casing, a rotor having a shaft and mounted within the casing, fluid pressure sealing glands for preventing the flow of elastic fluid to or from the interior of the casing when running, said glands permitting said flow when the turbine is idle, and means supplying air under pressure into the interior of the casing when the turbine is idle for cooling the rotor, whereby air circulates through the turbine and leaks outwardly through the glands.

1,678,068. MANUAL TELEPHONE SYSTEM. JOHN H. LEVIS, Jr., Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 23, 1925. Serial No. 77,197. 10 Claims. (Cl. 179—41.)



1. In a telephone system, a calling line and a called line, means including a cord circuit and trunk circuit for interconnecting said lines, an operator's telephone set, means responsive to the extension of said calling line to said trunk circuit for connecting said operator's telephone set to said trunk circuit to the exclusion of other trunk circuits, means for extending said trunk circuit to said called line, a plurality of sources of ringing current for signalling stations on said called line, means including a single ringing key for each source of ringing current common to a plurality of said trunk circuits, means responsive to the depression of one of said ringing keys for selecting the proper source of signalling current to signal the wanted station on said called line, and means controlled from said cord circuit for applying said proper source of signalling current to said called line.

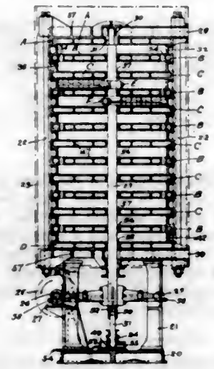
1,678,069. PAWL-AND-RATCHET MECHANISM. RAY H. MANSON, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 2, 1921. Serial No. 512,344. 7 Claims. (Cl. 74—54.)



1. In an article of the class described, a frame, a shaft rotatably supported in said frame, a ratchet wheel on said shaft, said ratchet wheel having teeth each of which is provided with a sliding face, a pivoted arm, and a pawl substantially straight throughout its length, rigidly mounted on said arm at right angles thereto, said pawl normally engaging the sliding face of a tooth of said wheel, said face lying in a plane extending at substantially right angles to said arm.

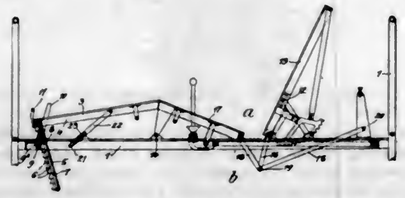
1,678,070. APPARATUS FOR COOLING OIL OR OTHER LIQUIDS. JAMES MOORE, Burmah, British India, assignor to The Burmah Oil Company Limited, Glasgow, Scotland, a British Company. Filed July 13, 1923, Serial No. 651,429, and in Great Britain Aug. 15, 1922. 4 Claims. (Cl. 257—118.)

3. Heat-exchange apparatus comprising a plurality of contiguous cells, each cell comprising a cooled space and a cooling space, means for guiding a cooling medium through said cooling space in a circuitous path, an inlet port on one face of said cell at one end of said path, an outlet port on the other face of said cell at the other end of said path, said inlet port and said outlet port being adapted to register with the outlet port and inlet port, respectively, of contiguous cells, a central



aperture through each alternate cooling space and apertures through each of the other cooling spaces near the peripheries thereof.

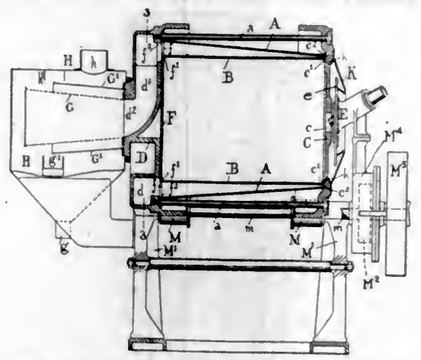
1,678,071. ADJUSTABLE COUCH AND THE LIKE. HEINRICH JULIUS MÜLLER, Schaffhausen, Switzerland. Filed Nov. 2, 1925, Serial No. 66,341, and in Switzerland Nov. 18, 1924. 1 Claim. (Cl. 5—69.)



In an arrangement for adjusting the leg rest of reclining surfaces and the like, a regulating rail at either side of the end of the leg rest of a reclining surface, pivotally attached to said leg rest and forming a support for the foot end of this leg rest, a longitudinal guide and downwardly directed ratchet teeth on said regulating rail, a bedstead carrying the reclining surface, a crank-shaft journaled in the lateral portions of the bedstead, a cranked part on this shaft capable of directly engaging in said ratchet teeth and of being automatically disengaged by upward movement of the said teeth, a hand lever fixed to the said crankshaft to turn the cranked part of the crank shaft into engagement with the ratchet teeth of the regulating rails, a pin fixed to the lateral portions of the bedstead and adapted to coact with the said longitudinal guide, a seat pivotally attached to the leg rest of the reclining surface, forming a support for the outer end of the leg rest and carried by arms pivoted at their lower ends to the lateral portions of the bedstead, a back rest, means pivotally supporting the back rest on the bedstead, means connecting the back rest and seat whereby changing the position of the back rest will adjust the position of the seat.

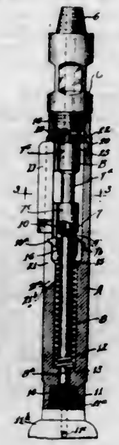
1,678,072. TUMBLING BARREL. FREDERICK WALTER NEVILLE, Salford, England, assignor to J. W. Jackman & Company Limited, Vulcan Works, Salford, England. Filed Nov. 30, 1925, Serial No. 72,416, and in Great Britain Feb. 9, 1925. 2 Claims. (Cl. 51—13.)

1. A tumbling barrel for cleaning foundry castings comprising the combination with a perforated inner barrel to receive the castings, of a conical outer barrel to collect the fine material as it falls through the perforations, a casting at one end with an aperture through which abrasive material may be injected, a casting at



the other end provided with a discharge chamber to receive the spent abrasive tailings and dust from the conical barrel and a hollow trunnion leading from the discharge chamber through which the tailings and dust are discharged.

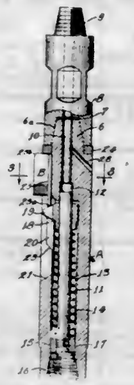
1,678,073. WELL APPARATUS. JOHN T. PHIPPS, Huntington Park, Calif., assignor to John Grant, Los Angeles, Calif. Filed Oct. 10, 1925. Serial No. 61,808. 25 Claims. (Cl. 255—75.)



1. An expansible underreamer comprising a slotted body, a mandrel therein having a reduced portion intermediate its ends, and cutters; each cutter having lateral projections and a recess on its inner face intermediate its ends, said lateral projections bridging the slots in said body to limit displacement of said cutters, said mandrel constituting an abutment for said cutters to hold the cutters in expanded position and to permit collapsion, and said recess bridging the reduced portion of said mandrel when the cutters are in expanded condition.

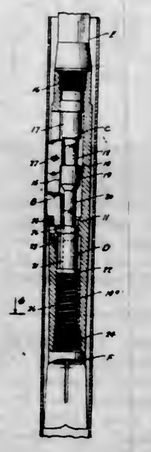
1,678,074. WELL APPARATUS. JOHN T. PHIPPS, Huntington Park, Calif., assignor to John Grant, Los Angeles, Calif. Filed Oct. 26, 1925. Serial No. 64,839. 4 Claims. (Cl. 255—75.)

1. In a device of the character disclosed, a body provided with an upper mandrel portion integral therewith, the body being slotted adjacent the upper mandrel portion, a cutter mounted in the body slot for longitudinal movement, the body having a bore below the mandrel



portion, a lower mandrel portion in said bore, and a cutter propeller and spring in said body bore, the propeller and spring surrounding and sliding on the lower mandrel portion.

1,678,075. EXPANSIBLE ROTARY UNDERREAMER. JOHN T. PHIPPS, Los Angeles, Calif., assignor to John Grant, Los Angeles, Calif. Filed Dec. 14, 1925. Serial No. 75,275. 17 Claims. (Cl. 255—75.)

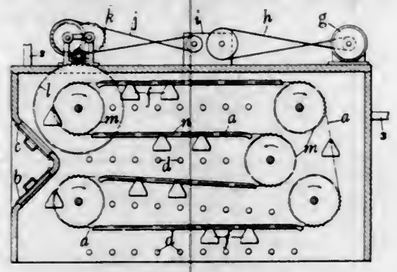


1. An expansible underreamer comprising a body, cutters mounted therein to play lengthwise, means urging said cutters lengthwise into expanded condition; and hydraulic indicator means for signalling when the cutters are in expanded condition comprising a cutter impeller, there being a water course for directing water against said cutters controlled by said impeller so as to permit the passage of water therethrough when said cutters are expanded.

1,678,076. BAKING OVEN. JOHN EDWARD POINTON, Peterborough, England, assignor to Baker Perkins Company, Incorporated, New York, N. Y. Filed July 12, 1927, Serial No. 205,212, and in Great Britain Sept. 1, 1926. 2 Claims. (Cl. 107—57.)

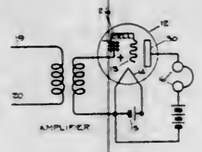
2. In baking ovens, the combination comprising a baking chamber, a conveyor passing in a circuitous course through said chamber, heating elements disposed between

the respective straight lengths or runs of the conveyor, an angular projection from the wall of the baking chamber into the interior of the latter, a door in each of the sides of said projection, said doors giving access to the



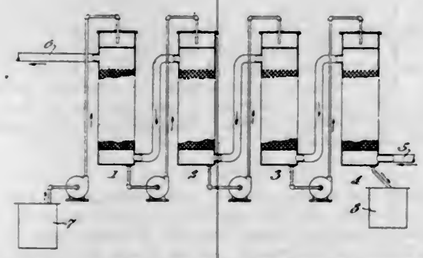
conveyor at various positions in its circuitous course from the one position on the exterior of the chamber, and means providing steam laden and dry atmospheres for said course.

1,678,077. THERMIONIC-TUBE CIRCUITS. WINFRED T. POWELL, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, New York, a Corporation of New York. Filed Sept. 17, 1924. Serial No. 738,206. 5 Claims. (Cl. 179—171.)



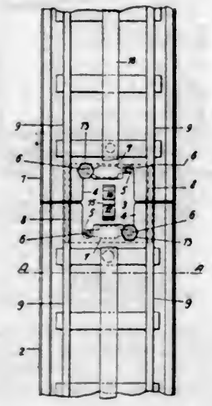
1. In an amplifier device, a thermionic tube including a filament, a plate element and a controlling element, an input circuit connecting said filament and said controlling element, an output circuit connecting said filament and said plate element, heating current for said filament, and a light controlled unit for developing a difference of potential between one of the elements of said thermionic tube and said filament proportional to said heating current.

1,678,078. PROCESS OF TRANSFORMING LIGHT PARAFFIN HYDROCARBONS INTO OTHER PRODUCTS. ALEXANDER S. RAMAGE, Detroit, Mich., assignor to Bostaph Engineering Co., Detroit, Mich., a Corporation of New York. Filed June 19, 1925. Serial No. 38,302. 3 Claims. (Cl. 260—170.)



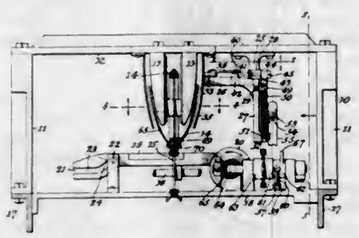
1. Process which comprises contacting a mixture of light paraffin hydrocarbons substantially unmixed with reactive oxygen with a reducible metal oxid at a reacting temperature not substantially in excess of 550° C.

1,678,079. RAIL-JOINT CONNECTION FOR TOY RAILWAYS. LUDWIG REISCHL, Nuremberg, Germany, assignor to Doll & Co. Aktiengesellschaft, Nuremberg, Germany. Filed Nov. 3, 1927, Serial No. 230,879, and in Germany Aug. 3, 1927. 4 Claims. (Cl. 238—10.)



1. A rail joint connection for toy railways, comprising in combination a plurality of pieces of track, openings at the ends of the said pieces of track, a connecting plate, screw bolts fixed to the said connecting plate, capable of being inserted through the said openings and nuts for screwing on to the said bolts for securing the pieces of track and the connecting plate together, as set forth.

1,678,080. CUTTING MECHANISM. FREDERICK RENZ, Brooklyn, N. Y. Original application filed Feb. 16, 1927, Serial No. 168,753. Divided and this application filed Nov. 28, 1927. Serial No. 236,233. 6 Claims. (Cl. 164—49.)

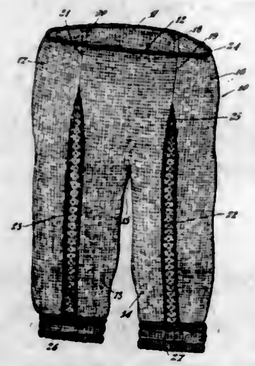


1. In a machine for feeding a continuous line of tape connected spaced books, means controlled by the movement of said books for severing the said tape connection between them, consisting of a normally horizontal knife having a tail slot, a pin entering said slot to support and guide the rear end of the knife and mechanism for operating said knife across the path of the said books and between the same.

1,678,081. GARMENT. JULIUS RIMPLER, Hoboken, N. J. Filed Mar. 29, 1926. Serial No. 98,078. 1 Claim. (Cl. 2—224.)

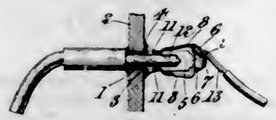
A garment having a back center portion extending from the waistband to the crotch, a front center portion similarly extending from the waistband to the crotch two half leg portions each integral with both of said center portions, all of said portions being formed by a single

unitary piece of woven fabric, a relatively narrow strip of fabric secured to each edge of said leg portions and extending nearly to the waistband of said garment, the



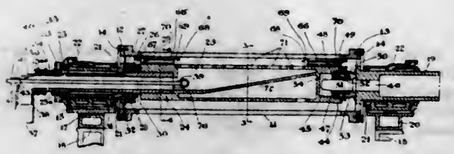
upper end of each of said strips being tapered, and side portions secured to said strips and said front and back portions.

1,678,082. PLUG AND SOCKET CONNECTER AND THE LIKE. HENRY ROTTENBURG, Cambridge, England. Filed Feb. 18, 1926, Serial No. 89,172, and in Great Britain Mar. 9, 1925. 3 Claims. (Cl. 173—363.)



1. A socket member for a plug and socket connecter comprising a tubular member, a spring member of U-shape secured thereby having depressions in its legs and a second member of U-shape having a depression towards its base which is engaged by a depression in a leg of the first mentioned U-shaped member.

1,678,083. SUCTION ROLL. ANDREW N. RUSSELL and BERNARD A. MALKIN, Lachine, Quebec, Canada, assignors to The Paper and Textile Machinery Company, Sandusky, Ohio. Filed June 3, 1924, Serial No. 717,588. Renewed Feb. 15, 1926. 10 Claims. (Cl. 92—53.)



1. In a carrier roll for paper making machines or the like, a roll, means for rotatably supporting said roll, a suction box mounted within the roll, guides formed in the suction box, channel-shaped members mounted in the guides, packing or sealing means within the channel members and adapted to contact with the roll, wedges secured directly to the underside of the channels, wedges mounted in the guides and adapted to engage with the channel wedges, and means connected to one set of the wedges so that on movement of same the channels will rise or fall in the guides.

1,678,084. PROCESS OF PRODUCING VULCANIZED RUBBER. WINFIELD SCOTT, Akron, Ohio, assignor to The Rubber Service Laboratories Co., Akron, Ohio, a Corporation of Ohio. Original application filed Sept. 9, 1925, Serial No. 55,386. Divided and this application filed May 19, 1926. Serial No. 110,294. 14 Claims. (Cl. 18—53.)

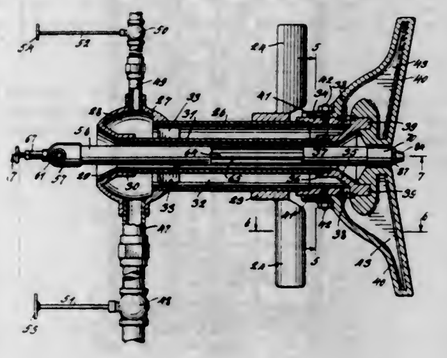
6. The process of manufacturing vulcanized rubber which comprises heating rubber and sulphur in the presence of the carbon bisulfid derivative of the reaction product of di-ethyl amine with paraformaldehyde.

1,678,085. METHOD OF PRODUCING VULCANIZED RUBBER. WINFIELD SCOTT, Akron, Ohio, assignor to The Rubber Service Laboratories Co., Akron, Ohio, a Corporation of Ohio. Original application filed Sept. 9, 1926, Serial No. 55,386. Divided and this application filed May 19, 1926. Serial No. 110,295. 29 Claims. (Cl. 18—53.)

1. The process of manufacturing vulcanized rubber which comprises heating rubber and sulphur in the presence of the carbon bisulfid derivative of the reaction product of a secondary amine and an unsaturated aldehyde.

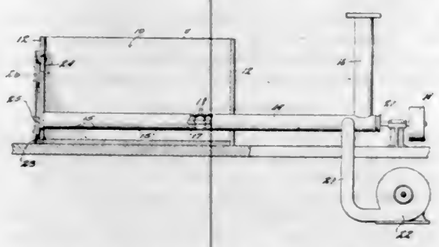
15. The process of manufacturing vulcanized rubber which comprises heating rubber and sulphur in the presence of the carbon bisulfid derivative of the reaction product of piperidine and furfuraldehyde.

1,678,086. GAS BURNER. HAROLD D. SCHRADER, Denver, Colo. Filed Oct. 25, 1926. Serial No. 143,945. 6 Claims. (Cl. 158—99.)



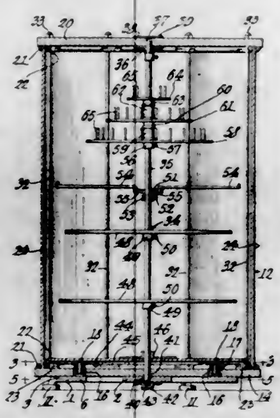
1. A gas burner comprising a hollow body member having a mixing chamber and two axially aligned openings, one of which is of greater diameter than the other, a pipe secured to the side of the opening having the larger diameter, said pipe extending outwardly from said body member, a second pipe, whose exterior diameter is smaller than the interior diameter of the first mentioned pipe located within the latter, one end of said smaller pipe extending through the mixing chamber and threadedly connected with the wall of the smaller opening, a hub member having a central opening and an annular chamber concentric therewith, the outer wall of the annular chamber being connected with the larger pipe and the inner wall of said annular chamber being connected with the smaller pipe, whereby the annular chamber is put into communication with the mixing chamber through the annular cylindrical space between the pipes and a plurality of hollow burner arms secured to the hub member and having their interiors in communication with the annular space in the hub.

1,678,087. FLOTATION MACHINE. EDWARD HASKINS SHACKELFORD, Jr., Joplin, Mo., assignor to Hebbard Manufacturing Company, Joplin, Mo., a Corporation of Missouri. Filed Aug. 30, 1927. Serial No. 216,461. 4 Claims. (Cl. 209—168.)



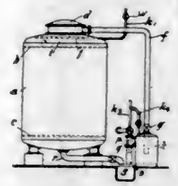
1. A flotation concentrator of the character described including a spitzkasten, an elongated casing entering the bottom of the spitzkasten and extending longitudinally therealong and formed with openings discharging into the spitzkasten, means disposed within the casing for mixing pulp and oil, and means for discharging pulp into the entrance end of said casing and discharging the air into this entrance end.

1,678,088. SHOW CASE. REUBEN SIDEMAN, San Francisco, Calif. Filed May 22, 1925. Serial No. 32,154. 1 Claim. (Cl. 312—135.)



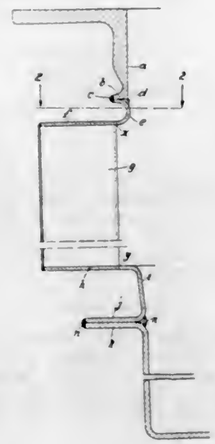
In a device of the class described, a base, a case comprising a bottom, a top, and a body extended between the bottom and the top, the bottom resting on the base, a first shaft extended through the bottom of the case and journaled in the top of the case, display means on the first shaft, a platform secured to the first shaft and located above the bottom, a rack on the platform, a pinion meshing with the rack, a second shaft on which the pinion is mounted, and anti-friction bearings engaging the platform—the device being characterized by the provision of end-thrust means for supporting the first shaft detachably on the base, means for supporting the anti-friction bearings on the base, the bottom having openings for the reception of the bearings and the pinion, means for supporting the second shaft for rotation on the base, and securing elements forming a detachable connection between the bottom and the base; whereby the case and the first shaft may be removed, leaving the anti-friction devices, the second shaft, and the pinion, on the base.

1,678,089. METHOD OF AND APPARATUS FOR CLEANING HIGH-PRESSURE BOILING APPARATUS. GUSTAV ULLMANN, Vienna, Austria. Filed Aug. 23, 1926, Serial No. 131,090, and in Austria Aug. 28, 1925. 8 Claims. (Cl. 8—18.)



1. A method of cleaning high pressure boiling apparatus employing chemical solution for purifying or dissolving materials, on release of the pressure within said apparatus, comprising, introducing into the boiler at the same time as it is blown off, a cool liquid diluent for diluting and cooling the solution and sludge thereof which are to be blown off from said boiler.

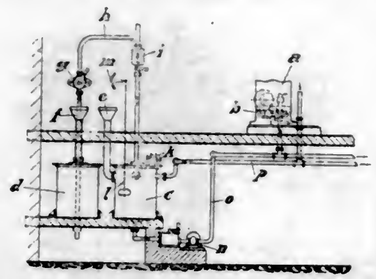
1,678,090. CASING FOR ELECTRIC TRANSFORMERS AND THE LIKE. OTTO WEHRLE, Emmendingen, Germany. Filed Apr. 24, 1926, Serial No. 104,343, and in Germany May 9, 1925. 9 Claims. (Cl. 220—75.)



1. In an oil container especially for electric transformers, a corrugated casing, a plate secured to and closing the tops of the corrugations of said casing and having an outwardly bent inner border, and a cover frame welded to said outwardly bent border.

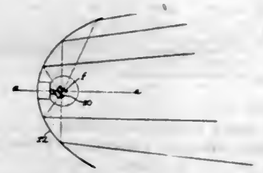
1,678,091. ADJUSTING THE PROPORTION OF COLOR TO THINNING AGENT IN CONNECTION WITH INTAGLIO PRINTING MACHINES. OTTMAR WILHELM, Augsburg, Germany, assignor to the Firm: Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany, a Corporation of Germany. Filed Feb. 4, 1927, Serial No. 165,766, and in Germany Feb. 9, 1926. 2 Claims. (Cl. 101—364.)

2. In combination, a color box for an intaglio printing machine, a container for color, a container for color thinning agent, a mixture receptacle, means for feeding color and color thinning agent from said containers to said receptacle, means for regulating the proportion of color and color thinning agent fed, means for thoroughly



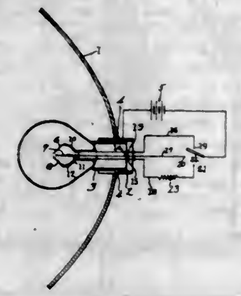
mixing the fed ingredients in the receptacle, and means for circulating the mixture between the color box and the receptacle.

1,678,092. AUTOMOBILE LAMP. WILLIAM H. WOOD, South Euclid, Ohio. Filed Mar. 25, 1925. Serial No. 18,097. 1 Claim. (Cl. 240—41.)



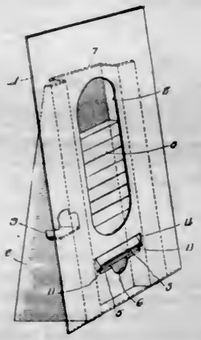
In an automobile light, the combination with a substantially paraboloid reflector having its axis substantially horizontal of two independently usable light sources inside said reflector, one of said sources defining and substantially confined within a plane which intersects said reflector axis substantially at its focal point and also confined substantially to the region above the reflector axis, the other source being substantially parallel to the plane of the first source and spaced slightly beneath the same.

1,678,093. VEHICLE HEADLIGHT. WILLIAM H. WOOD, South Euclid, Ohio. Filed Jan. 16, 1926. Serial No. 81,730. 2 Claims. (Cl. 240—41.)



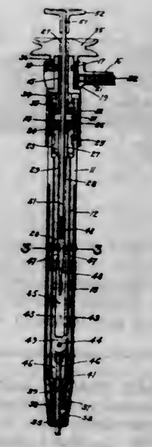
1. In a vehicle headlight, a substantially paraboloid reflector, a lamp bulb comprising three independent concentrated filaments one above the other, one of which defines and is substantially confined within the horizontal plane which includes the reflector axis, and the other two of which define and are substantially confined within planes which intersect said first plane obliquely along a line perpendicular to said reflector axis substantially at its focal point, said last two filaments being located in regions between the vertex and parameter of said reflector, in combination with three circuits, one for each filament, and a switch and battery, that circuit which corresponds to the lowermost filament including a resistance element.

1,678,094. DISPLAY DISPENSER. HENRY ZIEMMERMAN, Chicago, Ill., assignor to Chicago Card Board Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 2, 1927. Serial No. 165,252. 8 Claims. (Cl. 312—42.)



1. A collapsible display device comprising an apertured frontpiece and a foldable backpiece connected therewith, a tongue from the frontpiece extending rearwardly and upwardly to incline an article outwardly in the aperture, and engaging the backpiece to hold it in distended position.

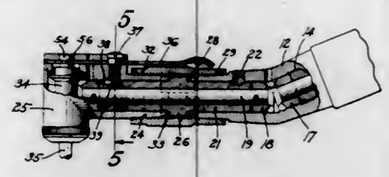
1,678,095. TOOL HANDLE. LAURITZ BREDENBERG ANDRESEN, Minneapolis, Minn., assignor to M. F. Patterson Dental Supply Co., St. Paul, Minn., a Corporation of Illinois. Filed Nov. 12, 1923. Serial No. 674,277. 8 Claims. (Cl. 32—15.)



1. In a dental tool handle, the combination of a casing, having a removable end-piece at one end and a removable head at the other end thereof, a radial bearing adjacent each end of the casing, a drive shaft mounted in the bearings and having a driving means at one end thereof, means for taking up end play of the drive shaft-

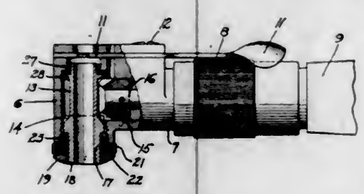
in either direction, opposed clutch members pivotally mounted within the drive shaft, a clutch-actuating means slidably mounted within the drive shaft and having one end outwardly projecting through one end of the tool handle to provide an operating means therefor, and a demountable end cap having a removable packing washer therein, fitted over the end of the casing end-piece to prevent dust and grit from entering the casing.

1,678,096. CONTRAANGLE ATTACHMENT FOR DENTAL HANDPIECES. LAURITZ B. ANDRESEN, Minneapolis, Minn., assignor to M. F. Patterson Dental Supply Co., St. Paul, Minn., a Corporation of Illinois. Filed Mar. 26, 1925. Serial No. 18,492. 9 Claims. (Cl. 32—11.)



3. A contraangle attachment adapted to be connected to a dental hand-piece, a sleeve member mounted in said attachment, an angular tool-supporting head adjustably mounted on said sleeve member, and toothed means on said head adapted to interlockingly engage toothed means on said sleeve member to lock the head against relative rotation thereon when in locked position, the toothed means on said sleeve member being integrally formed therewith.

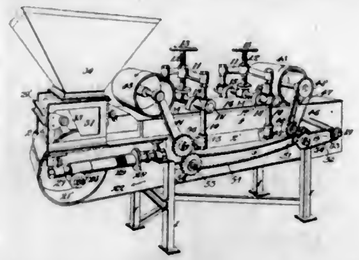
1,678,097. BEARING FOR ANGLE ATTACHMENTS FOR DENTAL HANDPIECES. LAURITZ B. ANDRESEN, Minneapolis, Minn., assignor to M. F. Patterson Dental Supply Co., St. Paul, Minn., a Corporation of Illinois. Filed Mar. 26, 1925. Serial No. 18,493. 5 Claims. (Cl. 32—11.)



2. A dental tool head in combination with a burr tube having bearings therein, a member mounted on said tube and having means interlocking with one of said bearings to form a tortuous passage between them to prevent the entrance of dust and grit into said bearing.

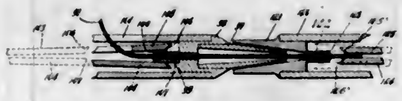
1,678,098. CRACKER PLATE. DAVID R. BAILEY, Sacramento, Calif., assignor to California Almond Growers Exchange, San Francisco, Calif., a Corporation of California. Filed Oct. 7, 1924. Serial No. 742,124. 3 Claims. (Cl. 146—11.)

1. A nut cracking apparatus comprising a framework, an endless conveyor mounted in said frame having an upper horizontal flight, said conveyor having a plurality of cracking elements secured thereto in a predetermined manner, a cracker plate mounted in the frame and supporting the upper horizontal flight of said conveyor, roller frames pivotally mounted on said framework, cracker rollers rotatably mounted in said frames for cooperation



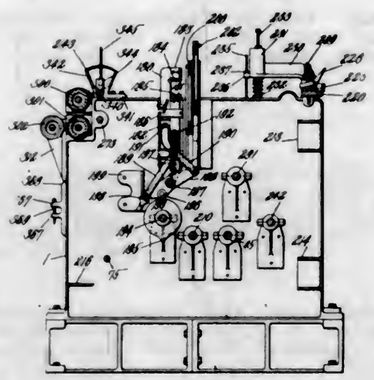
with said conveyor at points overlying said cracker plate, means for adjusting said roller frames on their pivots, and driving means for the rollers and conveyor.

1,678,099. LOOM. EARL F. BALDWIN, Gardner, Mass., assignor to American Fibre Corporation, Gardner, Mass., a Corporation of Massachusetts. Filed Dec. 12, 1921. Serial No. 521624. 9 Claims. (Cl. 139—11.)



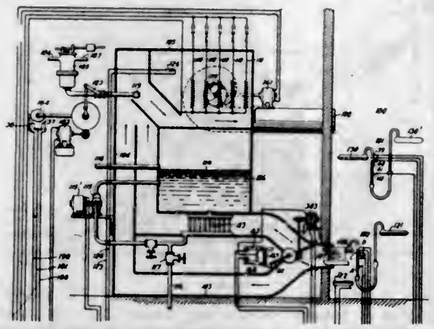
1. A pick laying means comprising a reciprocable bar having a strand channel therein, jaws reciprocably carried by said bar for gripping a strand in said channel, means actuable to close and open said jaws by their reciprocation relative to said bar, and means actuated by the reciprocation of said bar for reciprocating said jaws relative thereto.

1,678,100. STRAND-SEVERING MECHANISM. EARL F. BALDWIN, Gardner, Mass., assignor to American Fibre Corporation, Gardner, Mass., a Corporation of Massachusetts. Original application filed Dec. 12, 1921, Serial No. 521,624. Divided and this application filed May 28, 1927. Serial No. 194,866. 7 Claims. (Cl. 139—127.)



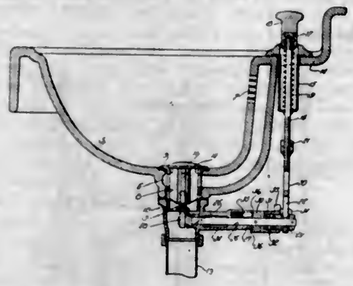
1. In a loom of the class described, in combination with the picking means, a pair of vertical slides having jaws extending at opposite sides of the line of action of said picking means, and means for intermittently reciprocating the slides in opposite phase.

1,678,101. AIR-CONDITIONING SYSTEM. JUSTUS H. BOWER, Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 29, 1923. Serial No. 648,464. 8 Claims. (Cl. 236—78.)



1. In combination, an air filled enclosure, means for withdrawing air from said enclosure and redelivering it to the enclosure; means for heating and means for cooling the withdrawn air, means responsive to the temperature conditions in said enclosure and relays responsive to said means for controlling the operation of said heating and said cooling means.

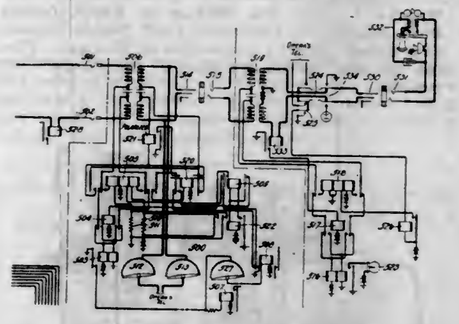
1,678,102. WASTE-VALVE-OPERATING MECHANISM. BENJAMIN R. BRESLER, Bridgeport, Conn. Filed July 5, 1927. Serial No. 203,840. 2 Claims. (Cl. 4—208.)



1. Means for operating a valve, said means including a hand piece, a shaft, a cam on said shaft and in contact with said valve, a rod connected with said hand piece, a yoke adjustably connected with said rod, means for maintaining said hand piece and rod in normal position, a clutch on said shaft and comprising a pair of complementary members one of which is secured to and the other of which is turnable relative to the shaft, means normally maintaining said elements in clutching engagement, means for maintaining said shaft against casual movement, and a pin and slot connection between the yoke and turnable clutch element whereby partial turning movements may be imparted to said clutch element on depressing said hand piece and a step-by-step turning movement imparted to the shaft to open and close the valve.

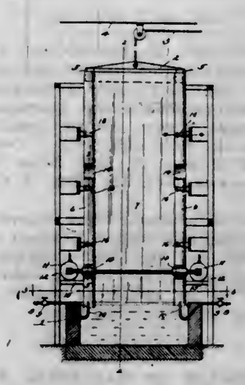
1,678,103. TELEPHONE SYSTEM. HARRY C. CAVERLY, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 4, 1927. Serial No. 223,880. 17 Claims. (Cl. 179—27.)

1. In a telephone exchange system, a machine switching office, a tandem office, a manual office, means for registering a telephonic designation comprising an office designation and a numerical designation at said machine switching office, means for establishing a connection from said machine switching office to said tandem office, means responsive to the establishment of said connection to transmit said office designation to said tandem office, means to thereupon extend said connection to said manual office, and means responsive to said extension to transmit said numerical designation to said manual office.



13. In a telephone system, a telephone circuit, means for reversing the direction of current flow over said circuit comprising a pair of relays, means controlled by the first of said relays to extend said circuit to a current source in one direction through the windings of the second of said relays, means controlled by said second relay for operating said first relay, and means thereupon controlled by said first relay for extending said circuit to said current source in the opposite direction through windings of said first relay.

1,678,104. APPARATUS FOR DRAWING SHEET GLASS. RAUL F. COLE, Mount Vernon, Ohio. Filed Nov. 12, 1926. Serial No. 148,064. 4 Claims. (Cl. 49—17.)

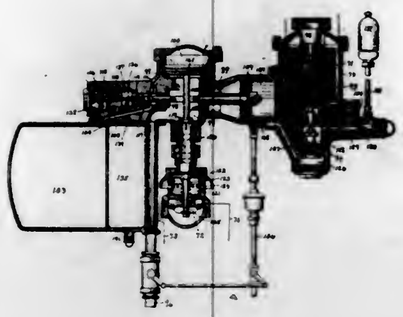


1. In glass drawing apparatus for producing flat glass sheets, a furnace containing a body of molten glass, an elongated bait vertically movable with respect to said furnace for drawing flat glass sheets therefrom, said bait being provided at the ends thereof with cylindrical enlargements, for producing enlarged cylindrical edges on the glass sheets produced thereby, means for introducing a gaseous fluid into the cylindrical edges as the latter are being formed by the upward movement of the bait, and means operating upon said edges to hermetically seal the fluid within said edges at intervals throughout the length of the sheet.

1,678,105. PLASTIC COMPOSITION. COURTNEY CONOVER, Crafton, Pa., assignor to The Selden Company, Pittsburgh, Pa. Filed Sept. 4, 1923. Serial No. 660,933. 8 Claims. (Cl. 260—8.)

1. A resinous plastic composition comprising the reaction product of glycerol, phthalic anhydride and furfural.

1,678,106. AIR-BRAKE-CONTROL MECHANISM. WILLIAM L. COOP and CHARLES B. STONE, Detroit, Mich., assignors to Continuous Train Control Corporation, Detroit, Mich., a Corporation of Michigan. Filed Dec. 8, 1926. Serial No. 153,258. 12 Claims. (Cl. 303—18.)



5. In a brake control mechanism of the character described, the combination with the train-pipe, a normally energized electro-pneumatic valve, a control valve governed thereby, automatic means embodying said two valves for causing the reduction of pressure in said train-pipe when said electro-pneumatic valve is de-energized, an electric switch, and means responding to the discharge of air from said train-pipe to open said switch.

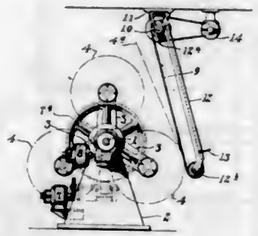
1,678,107. PROCESS OF PRODUCING LIGHT-COLORED AND COLOR-FAST, HARD, INFUSIBLE, AND INSOLUBLE PRODUCTS OF CONDENSATION OF PHENOLS AND ALDEHYDES. LEONHARD DEUTSCH and ISAK THORN, Vienna, Austria, assignors to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Sept. 15, 1923. Serial No. 662,997, and in Yugoslavia Sept. 28, 1922. 2 Claims. (Cl. 260—4.)

1. A process of producing light colored and color fast, hard, infusible and insoluble products of condensation from phenols and aldehydes consisting in subjecting the same to condensation with an alkali and subsequently adding to the product of reaction boric acid in order to form the salt of this acid.

1,678,108. PROCESS OF HARDENING THE PRODUCTS OF CONDENSATION OF PHENOLS AND ALDEHYDES. LEONHARD DEUTSCH and ISAK THORN, Vienna, Austria, assignors to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Sept. 15, 1923, Serial No. 662,999, and in Yugoslavia Sept. 28, 1922. 6 Claims. (Cl. 18—55.)

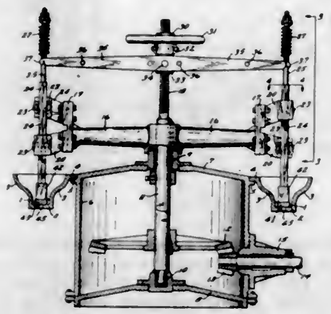
1. A process of hardening fusible condensation products of phenols and aldehydes, which comprises carrying out the hardening in a mold, which laterally supports the material to be molded, but which is open at least at the bottom, and maintaining a liquid of higher specific gravity than the material to be molded below and in contact with the bottom surface thereof.

1,678,109. TENSION DEVIE FOR NEWSPAPER-ROLL STANDS. CHARLES A. DRESSER, Greenburg, N. Y., and EDWIN W. HAMMER, South Orange, N. J., assignors to Cline Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 23, 1926. Serial No. 150,213. 9 Claims. (Cl. 242—75.)



1. A tension device for newspaper roll stands comprising a frame pivoted at one end, a pulley at each end of said frame, a belt carried by said pulleys and contacting with and driven exclusively by a roll of paper carried by the roll stand, a shaft driven by one belt pulley, a dynamo connected to said shaft, a resistance to receive and limit the dynamo current to impose a dynamic braking upon said shaft and means for automatically increasing the dynamo output when the press is to be stopped.

1,678,110. APPARATUS FOR TESTING ABRASION RESISTANCE. FRANK A. FAHRENWALD, Chicago, Ill. Filed Dec. 16, 1926. Serial No. 155,185. 10 Claims. (Cl. 73—51.)

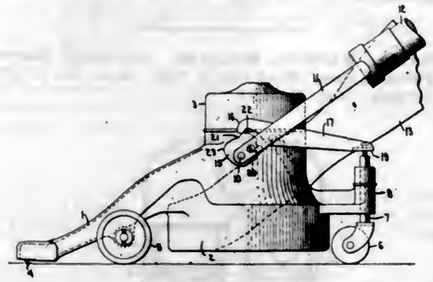


1. A machine for testing abrasion resistance, comprising a circular raceway, a rotatable shaft coaxial with said raceway and normal to the plane thereof, arms rigid with said shaft, a plurality of carriers carried by said arms and vertically movable relative thereto and traversing said raceway, means for rotating said shaft, and means for forcing said carriers toward said raceway with predetermined force, said carriers adapted to receive specimens of materials to be abraded.

1,678,111. SUCTION CLEANER. WALTER A. FRANTZ, Cleveland, Ohio. Filed Dec. 4, 1922. Serial No. 604,790. 2 Claims. (Cl. 15—8.)

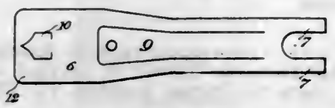
1. In a suction cleaner, in combination, a casing having at its forward part a collecting nozzle formed with a narrow elongated inlet mouth arranged transversely of the cleaner axis, a pair of carrying wheels

journaled to said cleaner one at each side between said mouth and the center of gravity of the casing, a carrying wheel at the rear of the center of gravity and vertically movable relatively to the casing, an operating handle pivoted to said casing upon a transverse axis



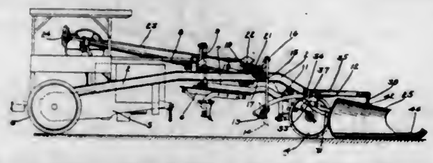
between said first wheels and said last wheel, a cam carried by said handle, and a lever pivoted to said casing, one end of said lever engaging said cam and the other end thereof operatively connected to raise and lower said last wheel.

1,678,112. CAN OPENER. ALBERT N. FROST, Vancouver, British Columbia, Canada. Filed Nov. 26, 1927. Serial No. 235,610. 1 Claim. (Cl. 164—119.)



A device for a can perforating tool comprising, a flat stamping of substantially rectangular elongated form and having one of its ends bifurcated by the removal of a central U-shaped portion, an elongated U-shaped incision in the body of said flat stamping, the open end of the last U-shape being adjacent the said bifurcation, and a second incision of substantially V-shaped form adjacent the end of the said stamping opposite the bifurcation.

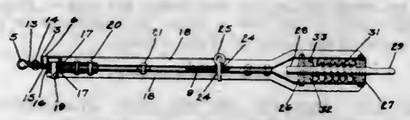
1,678,113. ROAD-MAINTENANCE MACHINE. CARL A. GUSTAFSON, Minneapolis, Minn., assignor to Russell Grader Manufacturing Co., Minneapolis, Minn., a Corporation of Minnesota. Filed May 31, 1927. Serial No. 195,484. 12 Claims. (Cl. 37—145.)



2. The combination with a road maintenance machine, having a scarifier pivotally connected with the forward end thereof, of a snow plow having means for detachably connecting it to said scarifier.

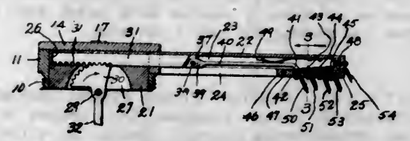
1,678,114. DRAFT APPLIANCE. CARL A. GUSTAFSON, Minneapolis, Minn., assignor to Russell Grader Manufacturing Company, Minneapolis, Minn., a Corporation of Minnesota. Filed July 25, 1927. Serial No. 208,255. 6 Claims. (Cl. 280—33.44.)

1. In a draft appliance, the combination of a triangular frame having a rear cross member provided with means for pivotally connecting it to a grader, a draft bar pivotally connected with said rear frame member, said draft bar comprising opposed members connected together in spaced relation, a plate secured to the forward end of said frame and received between said members to provide a guide therefor, a series of spaced



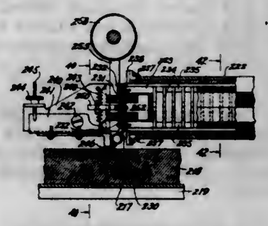
apertures in said plate, alined apertures in said members adapted selectively to be moved into registration with one of the apertures in said plate, and a locking bolt adapted to be received in said alined apertures to lock the draft bar in adjusted position.

1,678,115. GASOLINE GAUGE. CYRUS E. HANON, St. Louis, Mo. Filed July 12, 1926. Serial No. 122,022. 4 Claims. (Cl. 200—84.)



1. In a gasoline gauge a circuit controller comprising a housing having an arm projecting therefrom, a plunger slidably located in said housing and arm, a contact arm pivotally secured at one end to said plunger and movable longitudinally in said arm, a plurality of longitudinally spaced contact plates located in said arm and adapted to be sequentially contacted with by said contact arm, means for securing said housing to a liquid container, and means carried by said housing and located within said container whereby the rise and fall of liquid in said container imparts a longitudinal movement to said plunger and contact arm.

1,678,116. DEVICE FOR THE TRANSMISSION OF MECHANICAL VIBRATORY ENERGY. HENRY C. HARRISON, Port Washington, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 16, 1928, Serial No. 668,801. Renewed Oct. 11, 1927. 56 Claims. (Cl. 179—100.1.)



17. A speech frequency system comprising as one element an electric line and as another element a mechanical vibratory element, means for coupling said elements whereby signaling energy from one of said elements may be translated into signaling energy in the other of said elements, said means comprising a mechanical device having a length greater than its width and thickness and having such elasticity and mass per unit length that said means freely transmits substantially uniformly over a wide frequency range.

51. A phonographic device comprising a stylus and a mechanical line attached thereto, said line comprising

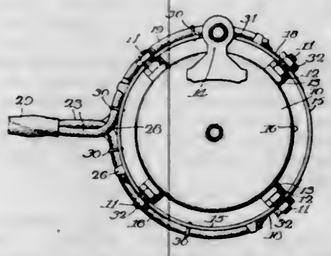
mass elements effectively in series and elastic elements effectively in shunt to the line of propagation of vibratory energy, said elements being so proportioned as to give said line a substantially uniform impedance over a wide range of frequencies to make the ratio of maximum to minimum response of said device not greater than the square root of ten over a range of frequencies at least as great as the order of three octaves.

1,678,117. METHOD OF MOLDING ALBUMEN-CONTAINING MASSES. FELIX HOMBERG, Barmen, Germany, assignor to American Nuplax Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 28, 1926, Serial No. 84,438, and in Germany Apr. 28, 1925. 1 Claim. (Cl. 18—47.)



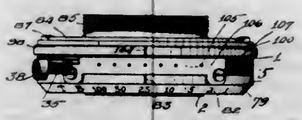
The method of molding albumen containing bodies which comprises providing a metallic mold coated with chromium, and molding sad body n sad mold.

1,678,118. IGNITION-TIMER WIRING ASSEMBLY. NORMAN G. HOVLID, Longmont, Colo., assignor to Belden Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 28, 1926. Serial No. 119,261. 12 Claims. (Cl. 173—324.)



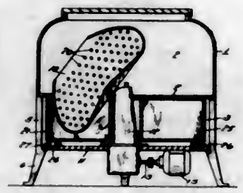
1. In combination, an ignition timer having a plurality of spaced terminals, and a wiring assembly for connecting a plurality of conductors to said terminals and comprising a flexible member adapted to embrace a part of said timer, a plurality of relatively insulated contacts mounted on said member in spaced relation according to the spacing of said terminals and adapted to respectively engage the latter, and a conductor connected to each of said contacts.

1,678,119. PHOTOGRAPHIC SHUTTER. RUDOLPH KLEIN, Rochester, N. Y., assignor to Ilex Optical Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 11, 1921. Serial No. 491,404. 25 Claims. (Cl. 95—63.)



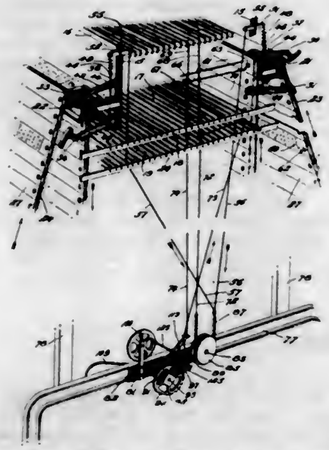
1. In a photographic shutter, a casing embodying two members, one of which is in the form of an annular plate provided with a peripheral flange extended in one direction to provide a chamber for the reception of the shutter blades and provided also with a flange extended in the other direction about the opening in the annular plate to provide a lens tube, and the other member of the casing being in the form of a circular plate fitting over the lens tube and having an annular peripheral flange co-operating with the first named member, shutter blades mounted in the chamber formed by the peripheral flange on the first named member, and shutter operating mechanism mounted between the members.

1,678,120. WASHING MACHINE. THOMAS M. KLUTTS, Portland, Oreg. Filed June 4, 1926. Serial No. 113,671. 1 Claim. (Cl. 68—18.)



A washing machine, consisting in a casing having a washing-space and a wringing-chamber thereabove, a floor between said space and said chamber having an opening into which said floor drains, a washing-basket arranged to be rotated in a horizontal plane in said chamber and in an inclined direction through said opening extending into said space, and a water-receptacle in said space having a plurality of compartments movable into alignment with said opening.

1,678,121. PATTERN-REVERSING MECHANISM. RAPHAEL LEVEILLEE, Esmond, R. I. Filed Aug. 29, 1927. Serial No. 216,009. 9 Claims. (Cl. 139—324.)



1. The combination of a card cylinder, means for operating the cylinder, means for reversing the operation, a counter connected with the operating and reversing means, an indicator or signal, and means controlled by the counter for bringing said indicator or signal into display position preliminarily to the initiation of the reversing means.

1,678,122. DOOR CONTROLLER. FELIX E. MARTIN, Los Angeles, Calif. Filed Feb. 5, 1927. Serial No. 166,134. 2 Claims. (Cl. 292—201.)

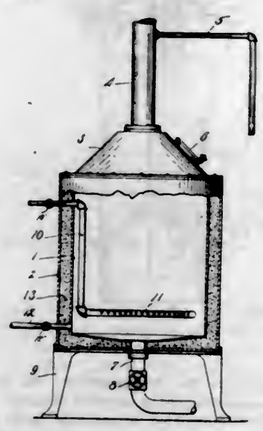
1. In a device of the class described, the combination with a door, a cross-head operatively connected with said door, and means for reciprocating said cross-head; of a

pivotally supported, horizontally extending bar, a J-bolt fixed to said bar, an eye bolt carried by said door with which said J-bolt co-operates, and a cam carried by said



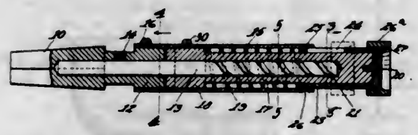
bar to co-operate with said cross-head for the purpose of fastening and unfastening said door at predetermined positions of said cross-head.

1,678,123. APPARATUS FOR REMOVING OIL FROM COD LIVERS. JAMES A. PATCH, Stoneham, Mass. Filed Nov. 27, 1925. Serial No. 71,731. 3 Claims. (Cl. 87—13.)



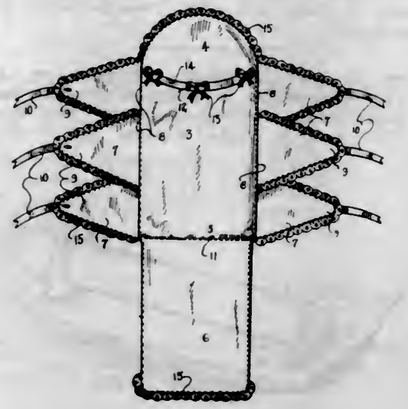
1. Apparatus for extracting oil from oleaginous material comprising a closed vertical digester for the material, an upstanding open ended stand-pipe connected with the digester, and of such small diameter as to preclude agitation of oil therein due to movement of the digester and pipe, means for introducing steam into the digester to disintegrate the material and extract the oil therefrom, means for introducing water into the digester near the bottom thereof to raise the oil extracted from the material into said stand-pipe, and a second pipe leading from said sand-pipe at a point substantially above the top of the digester, adapted to decant from said stand-pipe the oil upraised therein.

1,678,124. SCREW DRIVER. GEDEON PERREAULT, Gardner, Mass. Filed Dec. 29, 1925. Serial No. 78,228. Renewed Nov. 7, 1927. 3 Claims. (Cl. 145—51.)



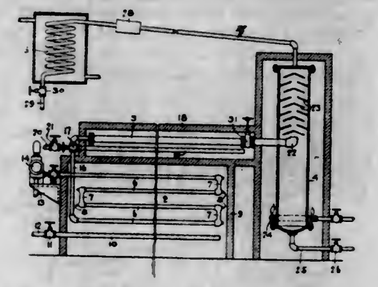
1. In a tool of the character described, the combination with a holder adapted to receive the shank of a tool therein, of a tube fixed thereto and surrounding said tool, a member secured within the tube and having a recess or bore for receiving said tool, a slide yieldingly mounted on said member and having a head with a conical inner surface for engaging the head of a screw, yielding means located in an annular space between said member and tube for forcing the slide outwardly and a screw-driver blade mounted on the end of said member within the head.

1,678,125. SLEEPING BAG. MARY PETRESCU, Wheat Stone, Saskatchewan, Canada. Filed May 19, 1927. Serial No. 192,704. 4 Claims. (Cl. 5—343.)



1. A sleeping bag comprising a main body section, an end flap extending from an end thereof and adapted to be folded to overlie said main body section and fastening flaps arranged in registering pairs on opposite sides of said main body section and adapted to extend over said end flap when folded to secure the same.

1,678,126. PROCESS AND APPARATUS FOR CRACKING MINERAL OIL. JAMES M. SCHOONMAKER, Jr., Sewickley, Pa., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a Corporation of Delaware. Filed May 15, 1922, Serial No. 560,986. Renewed June 3, 1925. 50 Claims. (Cl. 196—58.)

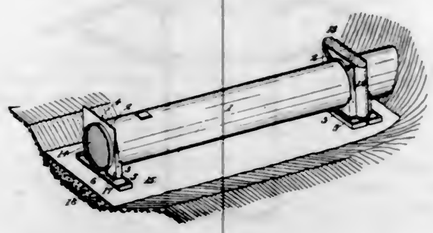


1. In the cracking of relatively heavy hydrocarbons to produce lighter hydrocarbons of the gasoline type, the step that comprises inhibiting the cracking of the hydrocarbons by applying pressure to the oil in addition to the vapor pressure of the oil while heating the oil to a temperature within its critical cracking range said critical cracking range being defined as that temperature range within which cracking can be inhibited by pressure and which exists for 10° F. to 50° F. above the normal cracking range at low pressures of the order of 100 pounds per square inch.

34. Apparatus for cracking hydrocarbons comprising a tubular heater, means for introducing oil under pressure into said heater, a cracking chamber communicating with

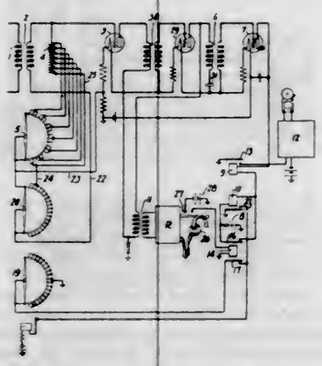
said heater, said cracking chamber being of somewhat larger diameter than the tubes of said heater, a separating chamber of relatively larger diameter communicating with said cracking chamber through an opening at least as large as the diameter of said cracking chamber, independent means for heating said heater, said cracking chamber, and said separating chamber, baffles disposed in said separating chamber, means for withdrawing vapors and gases from the top of said separating chamber and for condensing light-boiling hydrocarbons therefrom, and means for withdrawing residues from the bottom of said chamber.

1,678,127. METHOD OF POSITIONING AND ALIGNING STRUCTURES IN AQUEOUS BODIES. FRANCIS BETTS SMITH, San Francisco, Calif. Filed Mar. 31, 1926. Serial No. 98,854. 8 Claims. (Cl. 61—43.)



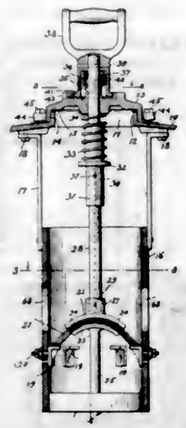
1. The method of submerging and aligning structures in aqueous bodies, which consists in lowering on to a bed a structure rendered buoyant with foundation members adjustably suspended therefrom which overcome the buoyancy thereof while suspended with the foundation members resting on the bed and maintaining the structure submerged, adjusting the suspension connections to properly position the structure to line and level, and bedding the positioned structure.

1,678,128. TRANSMISSION-CONTROL SYSTEM. KERMIT O. THORP, River Edge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 3, 1925. Serial No. 72,924. 4 Claims. (Cl. 178—44.)



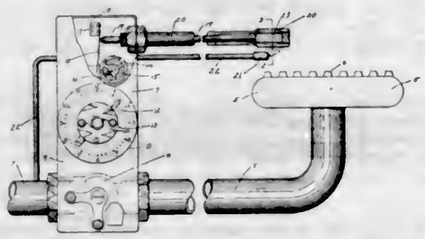
2. A transmission control system comprising a transmission line, means for receiving and demodulating a modulated carrier wave transmitted over said line, means for controlling the amplitude of the demodulated wave, means for receiving call signaling current transmitted over said line, and means for rendering inoperative said volume control means while said call signaling current is being received.

1,678,129. TAP CHANGER. GEORGE H. TUTTLE, Warren, Ohio, assignor to The Packard Electric Company, Warren, Ohio, a Corporation of Ohio. Filed Apr. 13, 1927. Serial No. 183,324. 8 Claims. (Cl. 200—4.)



1. In tap-changers for transformers, the combination of a tank, a removable cover secured thereon, a tube of insulating material supported within said tank, a plurality of contacts individually secured on the interior of said tube, an axially movable and rotatable rod arranged within said tube and projecting through said cover, an arcuate laminated brush carried by said rod and arranged to engage said contacts, a handle secured to said rod on the exterior of said tank, and cooperating means on said cover and said handle for locating said brush in its different positions.

1,678,130. TIME-CONTROLLED GAS-BURNING APPARATUS. VICTOR M. TYLER, New Haven, Conn., assignor to The Sentinel Mfg. Co., New Haven, Conn., a Corporation. Filed Nov. 23, 1926. Serial No. 150,234. 2 Claims. (Cl. 67—87.)



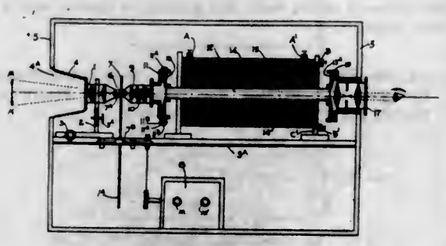
1. In a time-controlled gas-burning apparatus, the combination with a gas burner; of a pilot-light jet therefor; a timing-mechanism constructed and arranged to automatically turn on the supply of gas to the said burner; a yielding stop-member exerting a constant effort to engage a running part of the said timing-mechanism; and a thermostat constructed and arranged to normally hold the said stop-member out of engagement with the timing-mechanism and located adjacent to the said pilot-light jet, so as to be affected by the heat developed thereby, whereby, when the pilot-light becomes extinguished, the automatic turning-on of the gas by the said timing-mechanism will be forestalled and prevented.

1,678,131. SAFETY FUSE. THOMAS L. VAUGHN, Jr., Charlotte, N. C. Filed Jan. 4, 1926. Serial No. 79,151. 4 Claims. (Cl. 200—119.)



1. A safety fuse structure comprising a supporting block, fuse engaging terminals carried thereby, and a metal spring clip secured to the block adapted to clamp an insulated fuse to the terminals and to be destroyed by the passage of the line current through the clip when the fuse is substituted by a bare conductor.

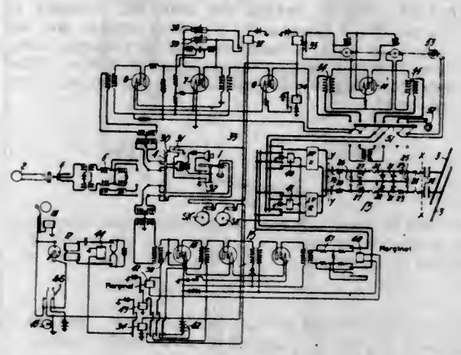
1,678,132. ART OF TELEVISION. LJUBOMIR WILLIAM SKALA, Riverside, Ill., assignor of forty-five one-hundredths to Frank J. Schraeder, Jr., Glen Ellyn, Ill. Filed Oct. 1, 1924. Serial No. 741,025. 21 Claims. (Cl. 178—6.)



2. The art of transmitting an image in motion and natural colors to a distance which includes the steps of detecting and transforming the light rays received from said image through an optically inactive medium into corresponding waves in an electric current, transmitting said electric waves to a receiving apparatus to affect an electromagnetic field therein, passing a beam of plane-polarized parallel rays of white light through said magnetic field to retransform said beam of light into said image.

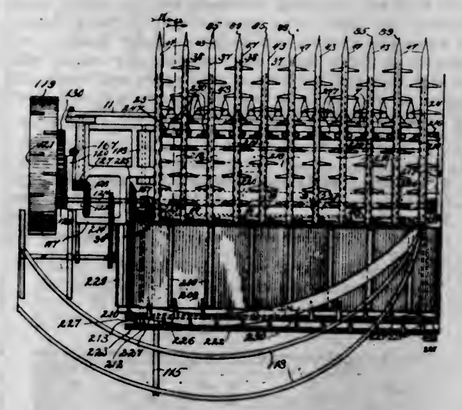
1,678,133. POWER-LINE SIGNALING. WALLACE V. WOLFE, Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 22, 1923. Serial No. 664,147. 15 Claims. (Cl. 179—2.)

1. In a two-way signaling system, terminal apparatus comprising incoming and outgoing channels, a selective circuit in each channel designed to pass waves of a certain frequency and to exclude waves of the frequency passed by the other, and means, operated as a result of



an essential action in attempting to use said apparatus, for interchanging said selective circuits with respect to the incoming and outgoing channels.

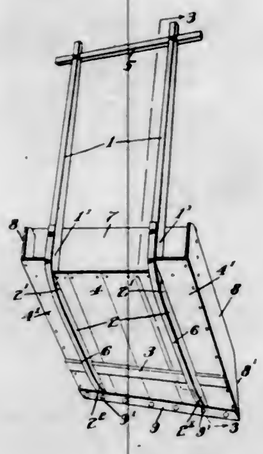
1,678,134. REAPING OR HARVESTING MACHINE FOR HARVESTING HEMP OR SIMILAR STALKS OR CROPS. HARRY IRWIN CROMER, Oak Park, Ill. Filed Aug. 25, 1924. Serial No. 733,969. 5 Claims. (Cl. 56—182.)



1. In a machine of the class described, the combination of a series of forward conveyor members each having stalk-engaging teeth thereon adapted to move rearward in extended stalk-engaging position above the level of the back of a sickle, portable supporting means upon which said toothed conveyor members are mounted, stalk-supporting means on said portable conveyor-supporting means and adapted to support stalks located back of such sickle, endless transverse conveyor mechanism located back of and having an upper stalk-engaging portion movable transversely with respect to the rearwardly movable stalk-engaging toothed portions of said for-

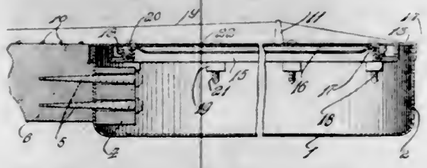
ward conveyor member, a traction wheel, and means for operatively connecting said forward conveyor members and said transverse endless conveyor mechanism with the traction wheel.

1,678,135. SNOW SCOOP OR SHOVEL. GEORGE L. CROSMAN and ARTHUR P. NASON, Portland, Me., assignors to G. A. Crosman & Sons Co., Deering Junction, Portland, Me., a Corporation of Maine. Filed Jan. 21, 1926. Serial No. 82,813. 3 Claims. (Cl. 37—53.)



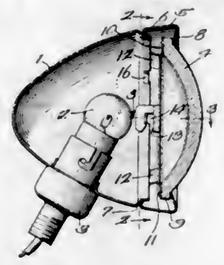
1. In a snow scoop, a floor, a pair of runners beneath said floor and extending longitudinally the entire length thereof, the front ends of said runners being formed as prows and merging with said floor, metal shoes on said runners, a folded metal strip covering the bottom edge of said floor and the ends of said prows and shoes, and means set through said floor, said shoes, and said prows to hold the same in rigid relation to each other.

1,678,136. STRINGED MUSICAL INSTRUMENT. CLARENCE L. DEWEY, Elkhart, Ind., assignor to Outing Manufacturing Co., a Corporation of Indiana. Filed Dec. 10, 1926. Serial No. 153,752. 6 Claims. (Cl. 84—267.)



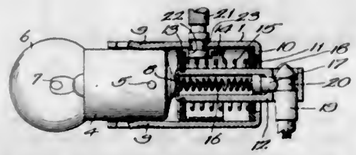
1. In a stringed musical instrument of the class described the combination with a housing, of a grooved top member rigidly secured thereon, a beveled flange formed on the inner periphery of said top member affording an annular ridge, tongues struck from said top member, nuts rigidly secured to said top member, between said tongues, a skinhead positioned on said top member and resting on the annular ridge, a ring interfitting said top member, and screws carried by said member and engaged in said nuts to force the ring member into the top member against the margin of the skinhead to force the margin of the skinhead into pockets formed by said tongues to cause the skinhead to be stretched into position while dry over said annular ridge.

1,678,137. CASING HAVING LIGHT-TRANSMITTING CLOSURE. HARRY A. DOUGLAS, Bronson, Mich. Filed July 2, 1928. Serial No. 203,224. 1 Claim. (Cl. 240—41.)



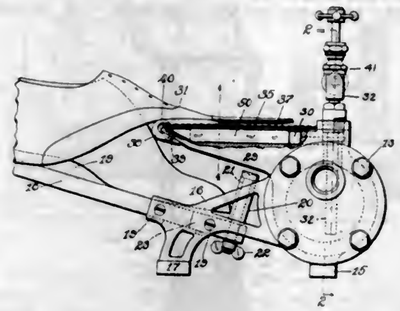
A casing including a casing body; a light transmitting closure at the rear of which said body is disposed; an annular frame surrounding the closure and having an internal shoulder at the front side of the closure and an additional internal shoulder which is at and spaced apart from the rear side of said closure; a resilient retaining ring having portions flexible perpendicularly to the general plane of said closure and interposed between said closure and the aforesaid additional internal shoulder of the annular frame, said ring having rearwardly extending fingers upon its aforesaid flexible portions and pressing upon this shoulder to press the first aforesaid internal shoulder upon the front side of the closure; and catches carried by said retaining ring and engaging the aforesaid casing body and holding it against said annular frame.

1,678,138. CIRCUIT CONNECTER. HARRY A. DOUGLAS, Bronson, Mich. Filed Nov. 17, 1927. Serial No. 233,875. 7 Claims. (Cl. 173—346.)



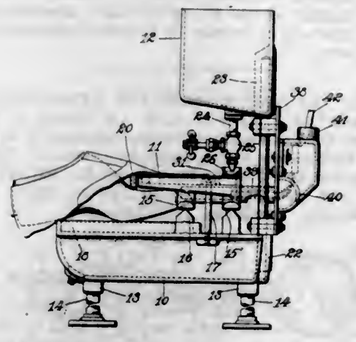
6. In a circuit connecter, the combination with a metallic shell formed, at its front end, to receive a contact carrying plug and having an abutment at its other end; of a contact member surrounded by the shell; a skirt member carried upon the front end of said contact member; a spring interposed between said skirt member and abutment and urging said contact member against a contact upon a plug received in the front end of the shell, the skirt member being in close proximity to the shell; and a handle secured to said skirt and projecting through a slot formed through said shell and shaped to locate the handle in a circuit opening position and to permit the handle to have a circuit closing position.

1,678,139. METHOD OF AND APPARATUS FOR SOFTENING SHOE MATERIALS. FREDERICK M. FURBER, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 10, 1923. Serial No. 618,374. 73 Claims. (Cl. 12—1.)



1. A softening apparatus comprising a heat-radiating element formed to enter between the last and upper of an assembled shoe, and means for supplying a liquid to said element.

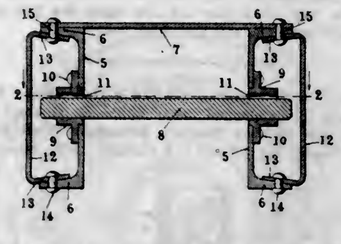
1,678,140. APPARATUS FOR HEATING AND SOFTENING SHOES AND PARTS THEREOF. FREDERICK M. FURBER, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 9, 1923. Serial No. 637,891. 16 Claims. (Cl. 12—1.)



1. A shoe-treating apparatus comprising a heat-radiating element adapted to convert water into hot moist vapor, a tank for supplying water to said heat-radiating element, and an overflow tank having a capacity as great as that of said supply tank and arranged to catch any water that overflows said heat-radiating element.

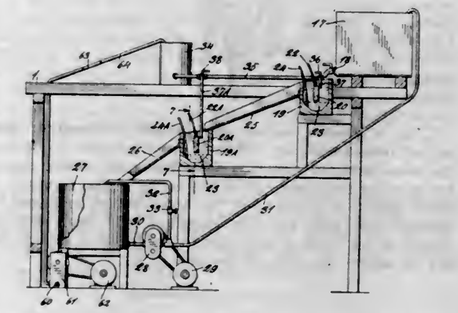
1,678,141. DRAFT GEAR. LOUIS A. HOERR, St. Louis, Mo., assignor to Western Railway Equipment Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 24, 1925. Serial No. 51,923. 2 Claims. (Cl. 213—61.)

1. In a device of the class described, the combination with a pair of draft sills each having upper and lower flanges of a draft key extending laterally, through the said sills, a stop plate provided with substantially



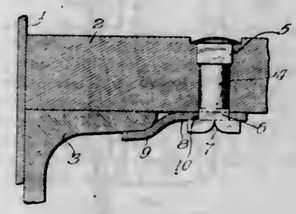
horizontal wings above and below the plane of said key, and means for securing said wings to the flanges of the sill, said plate limiting the lateral movement of the key.

1,678,142. APPARATUS AND METHOD FOR RECOVERING PRECIOUS METALS. JAMES E. HOPKINS, Denver, Colo. Filed June 21, 1926. Serial No. 117,383. 6 Claims. (Cl. 209—177.)



1. In combination, a plurality of amalgamating plates in tandem, means for flowing pulp containing values over said plates in succession, a means for preparing alkali metal amalgam and means for conveying said amalgam directly from said preparing means independently to the head of each of said plates and distributing it thereover.

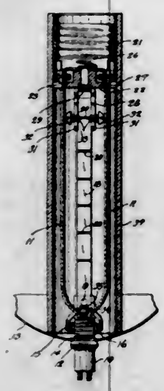
1,678,143. FLOOR CLIP. CHARLES L. HOWARD, Chicago, Ill., assignor to Western Railway Equipment Co., St. Louis, Mo. Filed Aug. 8, 1927. Serial No. 211,273. 1 Claim. (Cl. 189—35.)



In a device of the class described, the combination with a floor sill, of a floor board supported thereby having a circular bore therethrough, a clip having a square shaped opening therein, a bolt adapted to be run through the bore in said floor and having an enlarged upper square portion adapted when driven in position to pre-

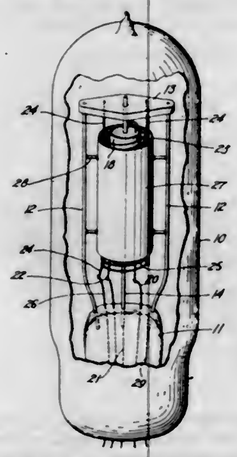
vent rotation of the bolt in said bore and said bolt also having a lower square portion adapted to fit the opening in the clip to prevent rotation of the clip upon the bolt, and means comprising a slotted portion in the end of the bolt to retain the clip upon the bolt and in engagement with the sill and floor board.

1,678,144. ADJUSTABLE CANDLE SOCKET. HARVEY HUBBELL, Bridgeport, Conn.; Louie E. Hubbell executrix of said Harvey Hubbell, deceased. Filed July 13, 1925. Serial No. 43,142. 4 Claims. (Cl. 240—52.)



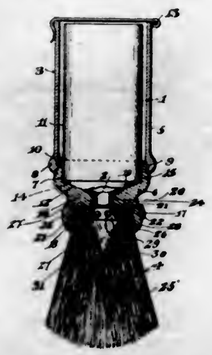
1. In a candle socket, an upright rectangular bar scored transversely at different spaced points to reduce its cross sectional area and form break off points, means for securing the lower end of the bar to a pipe terminal, a lamp socket, a support for the lamp socket arranged to embrace one side and the edges of said bar, and set screws in the sides of said support arranged to engage the bar to secure the support thereto.

1,678,145. ELECTRON-DISCHARGE DEVICE. MERVIN J. KELLY, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 8, 1924. Serial No. 724,754. 7 Claims. (Cl. 250—27.5.)



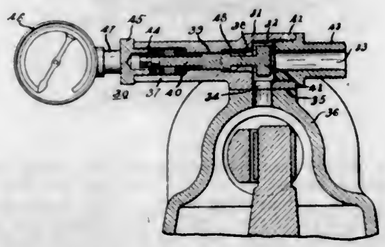
4. An electron discharge device comprising a vessel having a stem, a plurality of rods sealed in said stem, a block of insulating material connecting the free ends of said rods, the end of one rod being slidable in said block, a thermionically active member supported by said last named rod, a metallic cylinder supported by said other rods, and leading-in wires connected to certain of said rods.

1,678,146. SHAVING BRUSH. SAMUEL W. KENDRICK and JOHN E. MARTIN, Great Falls, Mont. Filed Feb. 11, 1927. Serial No. 167,552. 3 Claims. (Cl. 15—185.)



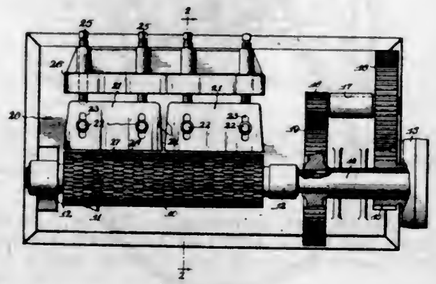
1. In a shaving brush a combined bristle anchoring, separating and thinning element comprising a hollow annular structure formed with an open bottom and consisting of a top in the form of an annulus and outer and inner sides integral with the top and forming respective tubular walls, said top spacing said sides, and the tube formed by said inner side wall gradually decreasing in diameter from said open bottom to said top and with said outer side wall providing a chamber for receiving the inner and terminal portions of a set of bristles, said inner wall providing means for anchoring the bristles to said element adjacent the inner ends of the bristles and further forming axially of the set of bristles a shaving cream passage gradually increasing in diameter outwardly from said annulus.

1,678,147. VALVED FITTING FOR REFRIGERATING APPARATUS. JESSE G. KING and HARRY B. HULL, Dayton, Ohio, assignors, by mesne assignments, to Frigidaire Corporation, a Corporation of Delaware. Original application filed May 7, 1928, Serial No. 637,136. Divided and this application filed July 30, 1927. Serial No. 209,587. 12 Claims. (Cl. 251—43.)



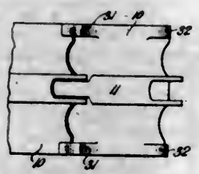
12. A fitting for refrigerant lines of a refrigerating apparatus, comprising a valve casing provided with a valve chamber and with inlet and outlet passageways, and a valve structure enclosed within said valve casing for opening or closing one of said passageways, said casing being constructed to permit the securing of connections thereto communicating with said inlet and outlet passageways, said connections being arranged to connect the fitting into the refrigerant circuit of a refrigerating apparatus including an evaporator.

1,678,148. APPARATUS FOR PRODUCING RODS FOR WELDING. CHARLES KOTCHI, Bay City, Mich., and FREDRICH J. RODE, Chicago, Ill., assignors, by mesne assignments, to Koro Corporation, Waukegan, Ill., a Corporation of Illinois. Filed Nov. 24, 1924. Serial No. 752,040. 3 Claims. (Cl. 80—18.)



3. An apparatus for use in producing by a pressing operation a rod for welding, said apparatus including an extended roller, a surface co-operating between which roller and surface the rod is rolled, the said surface being formed in independent sections arranged lengthwise of the roller and end to end, means for adjusting said sections independently one with respect to the other in directions toward and away from the axis of the roller, the proximate ends of adjacent sections exerting a greater pressure upon the rod than the remaining portions of the sections to squeeze the material in the rod to cause metal to flow outwardly toward the ends of the rod, and means for rotating the roller.

1,678,149. ENDLESS TRACK FOR VEHICLES. FREDERICK BRIDDON LAMB, London, England, assignor to Roadless Traction, Limited, Hounslow, Middlesex, England. Filed Feb. 1, 1924, Serial No. 690,057, and in Great Britain Feb. 5, 1923. 3 Claims. (Cl. 305—10.)

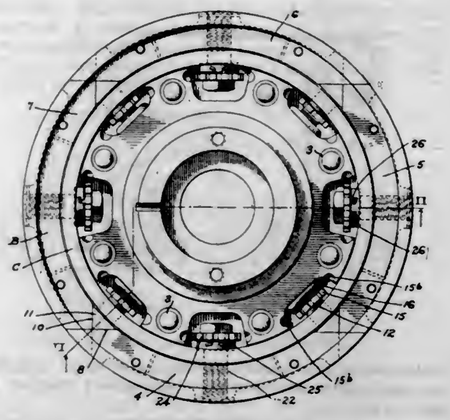


3. In endless tracks which comprise a plurality of track shoes having surfaces on each side of their central longitudinal axis, a central connection between adjacent shoes which permits movement about two axes, and means carried by the shoes at their outer edges for limiting the movement thereof about their central longitudinal axes which means consists of coacting lugs that also serve as teeth for engagement with a driving-sprocket.

1,678,150. PRODUCTION OF GLYCERINE BY FERMENTATION. JAMES W. LAWRIE, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed July 27, 1922. Serial No. 577,992. 14 Claims. (Cl. 195—20.)

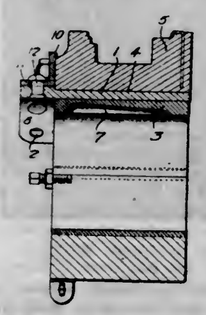
1. The process of producing alcohol and glycerol which comprises fermenting a molasses mash with a yeast, and adding, during said fermentation, a mixture of substantially the same composition as the incinerated ash of a fermented molasses mash.

1,678,151. PISTON STRUCTURE. ARTHUR H. LIGHT, Oakland, Calif. Filed May 3, 1927. Serial No. 188,418. 8 Claims. (Cl. 74—109.)



1. A piston of the character described having an annular groove formed in its peripheral surface, a floating ring mounted in said groove, a second ring consisting of a plurality of segments mounted in the groove exteriorly of the floating ring, means engageable with the segments to force them outwardly in a radial direction and means carried by the floating ring whereby outward radial movement of the segments is limited.

1,678,152. BEARING. HAROLD G. MARTIN, Philadelphia, Pa., and MICHAEL H. NEWGIRG, Baltimore, Md., assignors to Martin & Newgirg, Inc., Baltimore, Md., a Corporation of Maryland. Filed Feb. 19, 1924. Serial No. 693,872. 4 Claims. (Cl. 308—54.)

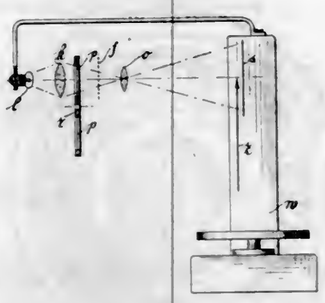


1. A crown bearing for locomotives or the like, having a longitudinal recess formed in its bearing surface at substantially the peak of the bearing, said recess being of increasing width and depth toward the inner end of the bearing, the crown bearing comprising a reinforce plate and a brass section intimately associated in casting, the reinforce plate being extended beyond the end of the brass section to provide a flange for use in withdrawing the bearing from the box.

1,678,153. PRICE-INDICATING BALANCE. KARL MARTIN, Rathenow, Germany. Filed July 14, 1926, Serial No. 122,491, and in Germany July 1, 1925. 2 Claims. (Cl. 88—24.)

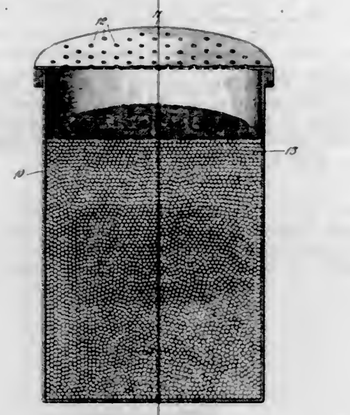
1. In a balance having a weight-indicating scale and a needle co-operating therewith, an independent transparent

price-indicating scale, a source of light, a system of lenses arranged co-axially thereto, said scale being disposed in the course of the light-rays, passing through said lenses.



the image of said price indicating scale being projected by said system of lenses into cooperative relation to said needle.

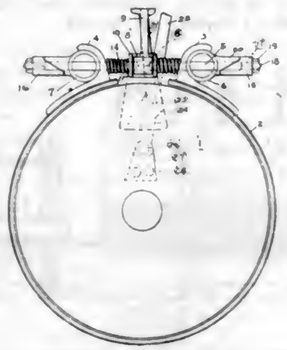
1,678,154. SPECIAL PACKAGE OF HYDROSCOPIC MATERIAL. CARL E. MENSING, Somerville, and ROY E. WILEY, Plainfield, N. J. Filed Nov. 10, 1926. Serial No. 147,428. 2 Claims. (Cl. 206—46.)



1. A package of hydroscopic material designed to permit free flow of said material in damp weather, comprising a hydroscopic substance which has been fused and formed into globules, each of such globules thereby having only a point contact with adjacent globules, and a container therefor having a dispensing opening of a diameter greater than that of the globules.

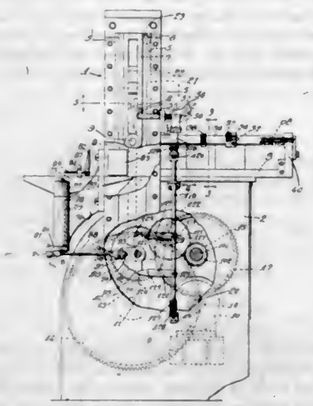
1,678,155. BRAKE EQUALIZER. JOHN L. MESPLE, San Francisco, Calif. Filed Jan. 25, 1926. Serial No. 83,486. 4 Claims. (Cl. 188—194.)

1. In a brake adapted to be applied to the front wheel of an automobile, said wheel being secured to the front axle of the automobile by the usual steering knuckle, a brake band, a drum upon the wheel cooperably associated with the band, means including a lever for forcing the band into frictional engagement with the drum, said lever being mounted so as to swing about an axis substantially normal to the axis of said steering knuckle, an actuating member adapted to be moved in a direction substantially normal to the axis of the steering-knuckle, and linkage



mechanism anchored to the front axle and cooperably associating said lever and actuating member for applying a braking force to said lever.

1,678,156. PAPER-CUTTING MACHINE AND GAUGE AND CARRIER THEREFOR. JOHN E. MULRONEY, Chicago, Ill.; Margaret B. Mulroney, executrix of said John E. Mulroney, deceased, assignor to Edward M. Brackett and Fred Bracket, Copartners doing business as The Brackett Stripping Machine Company, Topeka, Kans. Filed Mar. 29, 1926. Serial No. 98,306. 17 Claims. (Cl. 164—48.)

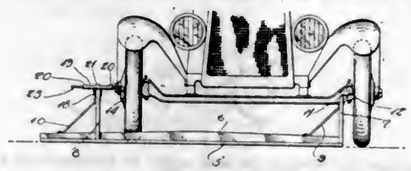


1. In a paper cutting machine, the combination of a movable knife, a feed table extending forward of the knife and adapted to support paper in position to be operated upon by the same, a reciprocatory paper-supporting carrier table mounted back of the knife and adapted to swing upon a vertical axis toward and from the knife, for supporting and carrying ent paper from the knife, and means for operating said carrier member.

1,678,157. WHEEL-ALIGNING GAUGE. ISAAC W. MUNDEN, Tampa, Fla. Filed June 15, 1927. Serial No. 199,096. 4 Claims. (Cl. 33—203.)

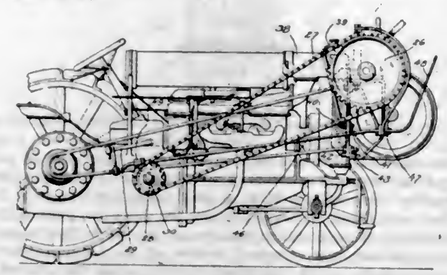
1. A wheel-aligning gauge including a base-beam, uprights on opposite end portions of the base-beam, gauging abutments supported by the said uprights and including

straight tire contacting surfaces facing in the same general direction, one of said gauging abutments being adjustable towards and from the other, and an index



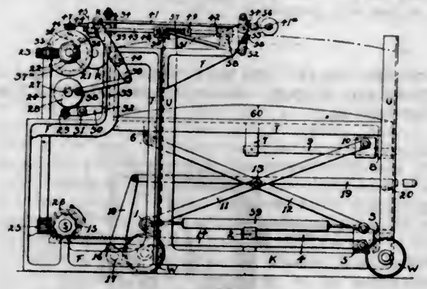
combining with the adjustable gauging abutment for indicating its position with respect to the other gauging element.

1,678,158. HOIST ATTACHMENT FOR TRACTORS. HARRY S. MYERS, Van, Pa. Filed Oct. 10, 1922, Serial No. 593,592. Renewed Mar. 7, 1927. 3 Claims. (Cl. 254—166.)



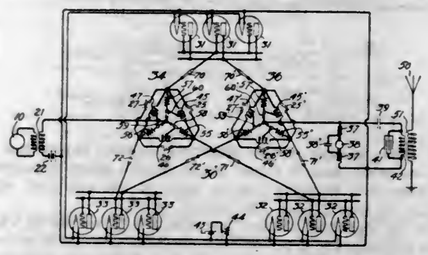
1. In combination with a tractor whose body is made up of sections including a rear axle housing, of a frame carrying active winch elements mounted on the front of said tractor, means for holding said frame against vertical movement, and a rod bent to encircle the axle housing of the tractor and having its ends attached to said winch frame.

1,678,159. AUTOMATIC FEED DEVICE. JOHN WILLIAM NASMITH, Manchester, England, assignor to Nasmith's Patents Limited, Manchester, England. Filed Oct. 10, 1924, Serial No. 742,852, and in Great Britain Oct. 27, 1923. 6 Claims. (Cl. 271—62.)



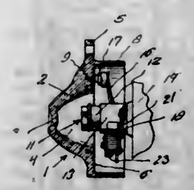
1. An automatic feed device for feeding sheets singly from a sheet pile, comprising gripper rollers, a vertically movable table on which the sheet pile rests, feeding devices to feed the top sheet of the pile to the gripper rollers, a truck on which the table is borne, means carried by the truck for raising the table bearing the sheet pile, a shaft put in rotation or stopped by clutch means operated by the movement of the feeding devices, and transmission gearing between said shaft and the table raising mechanism, part of such gearing being borne by the truck and separable from the other and stationary transmission elements.

1,678,160. ELECTRIC-WAVE-TRANSLATION SYSTEM. ARTHUR A. OSWALD, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 20, 1924. Serial No. 700,558. 11 Claims. (Cl. 179—171.)



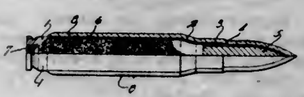
1. In a space discharge tube system including a number of units greater than two each unit comprising one or more tubes and common paths for desired and undesired waves, the method of preventing the transmission of waves of undesired frequency between units in said system which comprises causing waves of desired frequency to traverse said common paths in parallel, and causing waves of undesired frequency to traverse said paths in series.

1,678,161. TIMER. FRANK J. PALKY, Dorchester, Nebr. Filed May 5, 1926. Serial No. 106,883. 1 Claim. (Cl. 200—25.)



In a timer of the class described, in combination, a shell provided with a flat annular race, circumferentially spaced stationary contact elements embedded in said race, a timer shaft extending into said shell, a rotary circuit closer mounted on said shaft and comprising a sleeve fixedly mounted on the timer shaft, said sleeve being provided with a rigid laterally extending ear, a collar mounted for oscillation on said sleeve, said collar being provided with a radiating extension carrying a longitudinally bowed resilient arm, said arm having a socket at its free end, a contact element in said socket adapted to engage the aforesaid contact elements, links pivotally connected to said ear and said radiating extension respectively, said links being pivoted together, and a governor weight carried by the ends of the links pivotally connected to each other.

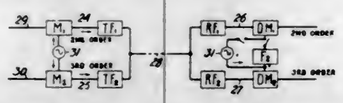
1,678,162. CARTRIDGE. JOHN D. PEDERSEN, Springfield, Mass. Filed May 20, 1926. Serial No. 110,559. 2 Claims. (Cl. 102—12.)



1. A cartridge comprising a case of drawn metal coated with an extremely thin film of hardened ceresin, adapted both as a protective covering for said case against a

corrosion and for lubrication of said case, said coating film being the air dried product resulting from an application to said case of a solution of ceresin in carbon tetrachloride.

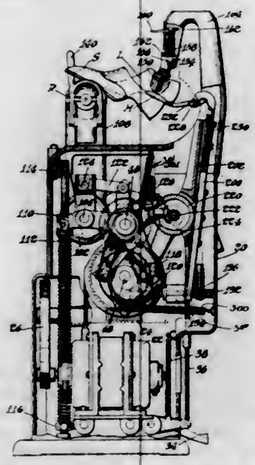
1,678,163. MODULATION. EUGENE PETERSON, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 29, 1923. Serial No. 683,301. 38 Claims. (Cl. 179—171.)



1. The method which comprises jointly impressing a carrier wave and a signal wave on the same distorting medium, and utilizing one or more of the resultant side bands of higher than the second order.

20. A signaling system comprising a plurality of one-way channels for different transmissions and means whereby each channel employs an order of modulation different from the others.

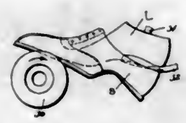
1,678,164. RELASTING MACHINE. ARTHUR F. PYM, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 7, 1921. Serial No. 443,043. 93 Claims. (Cl. 12—15.)



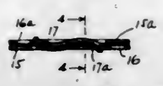
1. In a relasting machine, a support to engage a last partially inserted in a shoe, means to engage a shoe on a last supported thereby and comprising a surface which will slip under excessive resistance, mechanism to cause relative movement between the support and the shoe-engaging means to seat the shoe on the last while simultaneously broadening the forward portion of the upper to facilitate the insertion of the last therein, and means to contract the forward portion of the upper after the seating of the last, to bring the upper into snug engagement with the last.

1,678,165. MANUFACTURE OF SHOES. ARTHUR F. PYM, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 28, 1921. Serial No. 518,204. 20 Claims. (Cl. 12—142.)

1. That improvement in methods of relasting shoes which comprises partially inserting a last in a shoe, supporting the last and engaging the shoe in a manner to allow for slippage under excessive resistance without changing the point of engagement with the shoe, and then relatively moving the shoe and the last and simultaneously broadening the shoe upper to facilitate the seating of the last and continuing said relative movement until the seating of the last causes slippage to occur.



1,678,166. SEPARABLE FASTENER. THEODORE REPAY, Los Angeles, Calif., assignor to Fernando Spangenberg, Los Angeles, Calif. Filed Nov. 22, 1926. Serial No. 150,105. 1 Claim. (Cl. 24—230.)

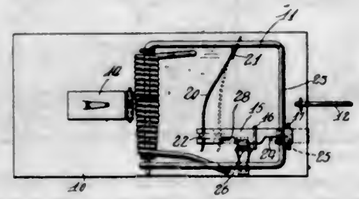


In a two part separable fastener, a fastener comprising a flat body having an elongated tongue outstruck from one side of the body and only free of the body at one end and along a portion of the sides of the tongue, the tongue being of ogee form in longitudinal section with its free end flared outwardly from the body to permit the insertion of an identical tongue on the flat body of a second fastener, the attached portion of the tongue extending partially along the sides of the tongue and forming a dished pocket to receive the free end of the tongue of the second fastener and cooperating with the ogee form of the tongue to prevent rotational movement between the two fasteners.

1,678,167. PROCESS OF REMAKING CHEESE. SANFORD K. ROBINSON, Chicago, Ill., assignor by mesne assignments, to Kraft-Phenix Cheese Company, Chicago, Ill., a Corporation of Illinois. Filed June 21, 1923. Serial No. 646,921. 5 Claims. (Cl. 99—11.)

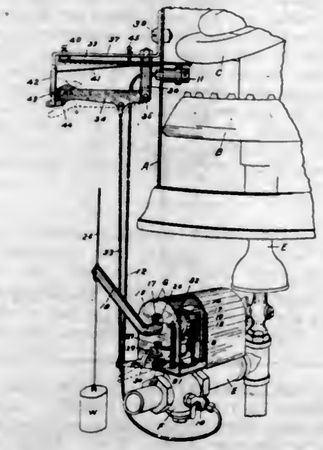
3. The improvement in the art of remaking cheese of a normally solid variety by a process which includes the steps of comminuting the cheese, heating the same and stirring same, which consists in adding to the material during the process, a small quantity of the double tartrate of sodium and potassium.

1,678,168. TRAP. EMIEL P. SEGHERS, Chicago, Ill. Filed July 2, 1923. Serial No. 648,900. 28 Claims. (Cl. 43—96.)



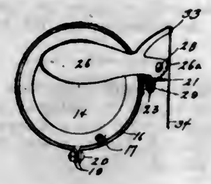
1. A trap comprising a fall or jaw, trigger mechanism for releasably retaining said fall in set position, a safety catch for preventing operation of said fall arranged to automatically engage said fall when said fall is moved into position to be set, and means for retaining said catch out of operative position to permit operation of said

1,678,169. THERMOSTATIC CUT-OUT FOR GAS VALVES. RICHARD H. SHADRICK, Minneapolis, Minn., assignor to Andrew E. Carlsen, Minneapolis, Minn. Filed Aug. 14, 1925. Serial No. 50,246. 15 Claims. (Cl. 67—116.)



1. The combination with a heater, having a main burner and a pilot burner, of a valve to control the supply of gas to the main burner, a rotatable cam having a cam face normally held in engagement with the valve to open and close the same, means for manually actuating the cam, and thermostatically operated means influenced by the pilot burner for releasing the cam from its normal position so as to render it ineffective for opening the valve.

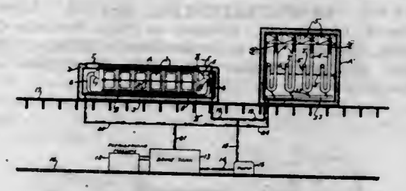
1,678,170. LIGHT-CONTROL DEVICE FOR HEADLIGHTS. ALEX S. TJADEN, Sioux City, Iowa. Filed Jan. 23, 1928. Serial No. 248,736. 6 Claims. (Cl. 240—45.6.)



4. In a device of the class described, a headlight dimmer adapted to be interposed at an angle across he path of light rays from the head light so as to intercept the upper portion of said rays and to deflect them to the side of the road, a bracket upon which said dimmer is hinged on a horizontal axis, transverse to its own plane, and a bracket upon which said first mentioned bracket is journalled on a vertical axis, said latter bracket being supported at the side of a headlight, and means to move the first mentioned bracket upon its axis and to swing the dimmer about its axis, the dimmer being linked to the second mentioned bracket so as to automatically translate rotating movement about the vertical axis to swinging movement about the horizontal axis.

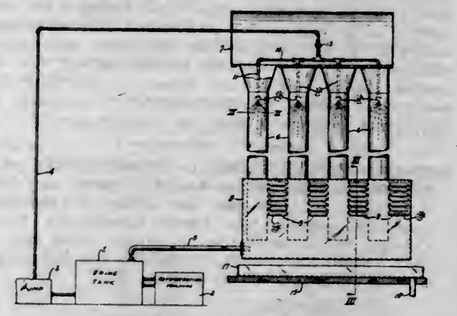
1,678,171. REFRIGERATOR. HELMUTH W. TOHTZ and KIRKE L. BONNELL, St. Louis, Mo. Filed Mar. 17, 1926. Serial No. 95,168. 3 Claims. (Cl. 62—104.)

2. A refrigerator comprising a horizontally elongated box with a support for the articles to be cooled located between the end portions of said box, and an air conductor in the form of a horizontally elongated U comprising a down duct having a funnel shaped inlet near the top of one end of the box, and an up duct having a funnel shaped outlet near the top of the other end,



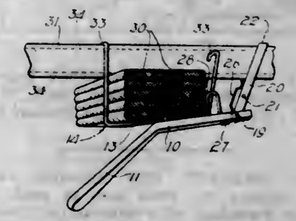
said funnel shaped members being turned toward each other, a nozzle in said conductor, and means whereby refrigerant is forcibly projected from said nozzle to force the air through said ducts.

1,678,172. REFRIGERATING SYSTEM. HELMUTH W. TOHTZ and KIRKE L. BONNELL, St. Louis, Mo. Filed Aug. 10, 1926. Serial No. 128,358. 1 Claim. (Cl. 261—116.)



A refrigerating system comprising an air conductor having an inlet at its upper end for the admission of relatively warm air and an outlet at its lower end for the discharge of cold air, means whereby a refrigerant is forcibly projected into said conductor to force the air toward said outlet, a separating chamber surrounding said outlet to separate the cold air from the refrigerant, a closure at the top of said separating chamber, said conductor being made of thin sheet metal having its outer face directly exposed to the surrounding air so as to collect moisture from the surrounding air and retain it in the form of frost, and a receptacle located below said separating chamber to receive liquid falling from the outer face of said conductor.

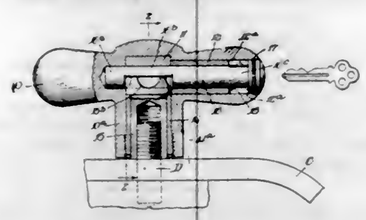
1,678,173. TOOL. EDWARD PAUL TOURNIER, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 17, 1925. Serial No. 23,861. 6 Claims. (Cl. 81—3.)



1. A tool comprising a lever adapted to engage and guide an element to operatively engage a support therefor, a member providing a fulcrum point for the lever

and having a portion for operatively engaging the said support, and means for normally holding said member in a predetermined position relative to the lever.

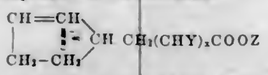
1,678,174. THEFT-PREVENTING DEVICE. JOHN F. WHITE, Chicago, Ill., assignor to White Products Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 22, 1925. Serial No. 3,895. 11 Claims. (Cl. 70—90.)



1. A theft preventing device comprising an operating member having a handle, an operated member rotatably housed in the operating member and arranged for connection to a support, an interlocking bolt completely housed in the operating member and having interlocking engagement with the operated member through the top portion thereof, and a lock housed in the operating member for holding the interlocking bolt selectively in and out of engagement with the operated member.

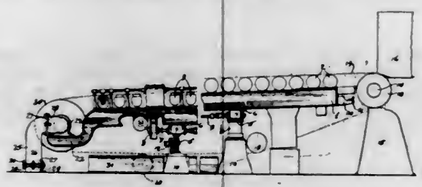
1,678,175. CYCLOPENTENYL SUBSTITUTED ALIPHATIC ACIDS. ROGER ADAMS, Urbana, Ill., CARL R. NOLLER, St. Louis, Mo., and JAMES A. ARVIN, Urbana, Ill., assignors to Abbott Laboratories, North Chicago, Ill., a Corporation of Illinois. Filed July 9, 1927. Serial No. 204,658. 2 Claims. (Cl. 260—112.)

1. New compounds of the formula



in which Y represents a monovalent atom or group, X represents one or more, and Z represents hydrogen or a substituted hydrogen, such as a metal or an alkyl group.

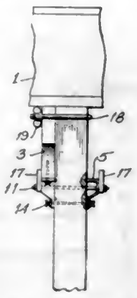
1,678,176. REMOVABLE-TYPE FOURDRINIER PAPER-MAKING MACHINE. EARL E. BERRY, Beloit, Wis., assignor to Beloit Iron Works, a Corporation of Wisconsin. Filed Apr. 16, 1926. Serial No. 102,388. 16 Claims. (Cl. 92—44.)



1. In a removable type Fourdrinier paper machine, the combination with a removable table, of a suction couch roll adapted to be supported thereon for removal therewith.

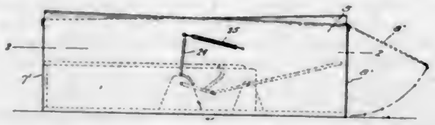
1,678,177. BRACKET FOR SHORES. GEORGE B. Bosco, Chicago, Ill. Filed Mar. 10, 1927. Serial No. 174,195. 3 Claims. (Cl. 304—40.)

3. A bracket comprising a bearing plate, a pair of depending side walls on said bearing plate arranged in substantially parallel spaced relation, opposite ends of said bearing plate projecting beyond said side walls, a depending end flange connecting together said walls and plate, a locking bolt extending through said end



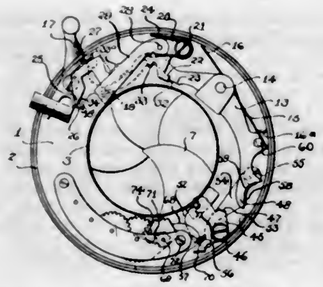
flange for securing said bracket to a supporting member, and a latch pivoted on said end flange and movable into position to form a stop projecting beyond said plate.

1,678,178. EXTERMINATING DEVICE FOR RATS, SQUIRRELS, AND OTHER PESTS. JAMES H. BROPHY, Deer Park, Wash., assignor of one-half to Vincent C. Emerick, Locke, Wash. Filed June 25, 1927. Serial No. 201,523. 3 Claims. (Cl. 43—58.)



1. In an animal exterminating device of the character described, a housing open at one end to permit the animal to enter therein, a platform within the housing upon which the animal is to walk, a knife normally disposed beneath the platform, and a trip platform at the end of the first-mentioned platform operatively associated with said knife to cause the upward movement of the body of the animal, when the trip platform is depressed.

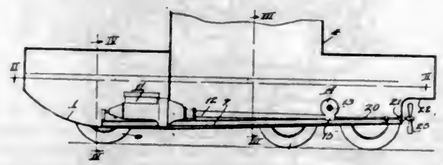
1,678,179. PHOTOGRAPHIC SHUTTER. THEODORE M. BRUECK, Rochester, N. Y., assignor to Ilex Optical Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 8, 1926. Serial No. 140,249. 8 Claims. (Cl. 95—63.)



1. A photographic shutter comprising a master member, a spring for moving the master member in one direction, a blade mechanism, an exposure member connected with the blade mechanism, for moving the latter in opposite directions, a spring acting on the blade mechanism to effect the closing of the shutter, a lost motion

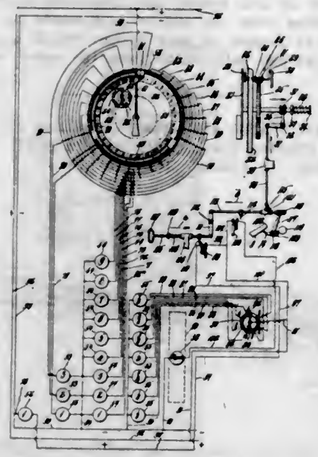
connection between the master member and the exposure member constructed to permit the master member to move past the exposure member when moved to store energy in the master member spring and to effect connection between the master member and the exposure member to shift the exposure member in order to effect the opening of the shutter and then to permit the master member to release the exposure member to permit the shutter to close under the action of the shutter closing spring, and a connecting means between the master member and the exposure member moved by the master member on the return movement of the latter under the action of the spring and after the master member releases the exposure member to effect the movement of the exposure member in a direction to close the blades.

1,678,180. AUTO MARINE VEHICLE. ALBERT E. COOK, Evanston, Ill., assignor to Charles B. Cook, Chicago, Ill. Filed Aug. 29, 1925. Serial No. 53,265. 3 Claims. (Cl. 115—1.)



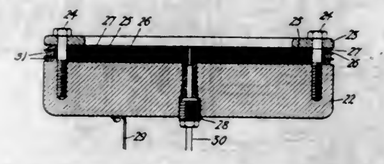
1. An auto marine vehicle comprising a body, wheels supporting the same, an automobile chassis framework mounted within the body, shafts mounted thereabove and supporting said wheels, a propeller mechanism supported by the body and an automobile power plant mechanism supported on the chassis framework and connected to drive the rear wheels and said propeller mechanism.

1,678,181. MEASURING AND RECORDING MACHINE. LEON A. DURGIN, Danvers, Mass. Filed June 29, 1925. Serial No. 40,173. 10 Claims. (Cl. 235—92.)



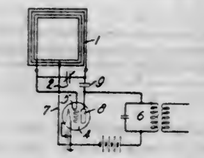
1. The combination of a measuring machine having an indicating dial and pointer, an adding machine having keys, actuating electromagnets arranged in position to operate different ones of the keys of said adding machine, a series of electrical contacts insulated from one another and spaced according to the indications of the dial, said contacts being in parallel circuits with the several key actuating magnets, and a contact carried by the pointer complemental to said dial contacts and in series connection with said magnets and a source of electrical energy.

1,678,182. TRANSMITTER FOR HIGH-FREQUENCY SOUND SIGNALING. MARION S. ESTES, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 25, 1919. Serial No. 340,555. 4 Claims. (Cl. 177—386.)



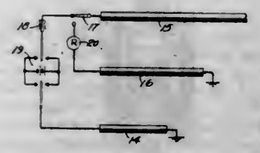
2. A condenser transmitter comprising condenser plates of opposite polarity, a conductive base member supporting said plates, an electrical connection between one of said plates and said base member, solid insulating means surrounding the other of said plates and insulating it from the medium surrounding said transmitter, and means for making electrical connection with each of said plates.

1,678,183. SIGNAL RECEPTION. HARALD T. FRIIS, Cliffwood, N. J., assignor to Western Electric Company, Incorporated. New York, N. Y., a Corporation of New York. Filed May 28, 1923. Serial No. 641,810. 6 Claims. (Cl. 250—20.)



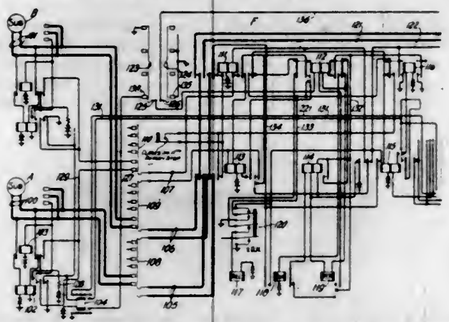
1. In a receiving apparatus a rotatable wave-intercepting inductance coil, a tuning condenser connected across the terminals of said coil, a connection to earth from the electrical center point of said coil, an electric discharge tube having a cathode, an anode and a grid or impedance controlling element, said cathode being connected to earth and said grid being connected to a terminal of said coil.

1,678,184. SUBMARINE SIGNALING. JOHN J. GILBERT, Port Washington, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 30, 1923. Serial No. 648,690. 14 Claims. (Cl. 178—63.)



1. A terminating impedence for a loaded cable having a resistance equal to $\sqrt{\frac{L}{C}}$ where L and C are the inductance and capacity respectively of the loaded cable.

1,678,185. TELEPHONE SYSTEM. ROBERT W. HARPER, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 18, 1927. Serial No. 192,176. 6 Claims. (Cl. 179—18.)



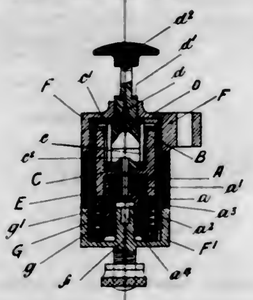
1. In a telephone system, a line finder having groups of terminals, lines appearing in said terminals, groups of trunks, a selector having access to said trunks, means for operating the finder to extend a calling line to said selector, means for operating the selector to select a group of trunks and to seize an idle one, an auxiliary switch driven by said finder and closed in certain group selecting positions thereof, and means controlled by the auxiliary switch for rendering said selector ineffective to seize an idle trunk.

1,678,186. PATTERN CUTTER. HERMAN E. HOELZEL, Elmhurst, Ill. Filed Jan. 14, 1926. Serial No. 81,329. 2 Claims. (Cl. 164—60.)



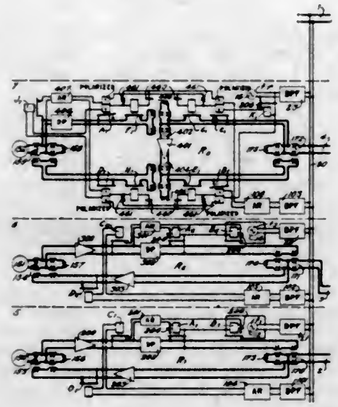
1. A pattern cutter comprising a base, a power source at one end thereof, a work table at the other end, shafts leading from the power source to the work table, cooperating rotary cutters mounted on the shafts in the region of the work table, and a separating guide for the work at the issue point thereof from the cutters, such guide following the profile of the cutters where the work issues whereby to part and shield the same during the courses of its progress.

1,678,187. ELECTRICAL CUT-OUT. WILLIAM HENRY ILLINGWORTH, Halifax, England. Filed July 12, 1922, Serial No. 574,573, and in Great Britain Sept. 26, 1921. 8 Claims. (Cl. 200—113.)



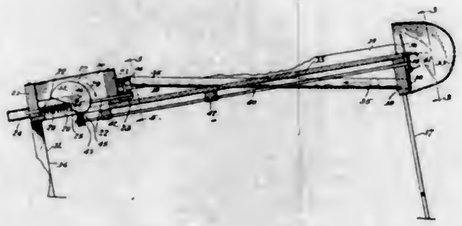
1. In an electrical cut-out in which a column of conducting liquid constitutes the circuit breaking element, the combination of a tubular body, a metal contact situated at each end of such body, a chamber slidably mounted in the tubular body, a tubular core of refractory material rigidly connected to such chamber, a valve stationarily mounted in the chamber, a spring for retaining the chamber in a raised position in relation to such valve, and externally operated means for depressing the chamber and core against the action of the spring.

1,678,188. ELECTRIC WAVE TRANSMISSION. ROBERT C. MATHES, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 1, 1925. Serial No. 53,777. 16 Claims. (Cl. 178—44.)



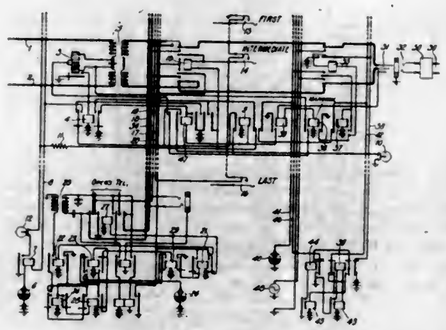
1. In combination, a plurality of translating devices, apparatus, including current transmission means having said translating devices distributed therealong, for controlling said translating devices over said means from each end of said means, and apparatus controlled over said means from one end of said means for annulling control of certain of said devices which has been obtained through said means from the other end of said means.

1,678,189. GAME APPARATUS. LELAND STANFORD MCVEY, Fontana, Calif. Filed Apr. 13, 1927. Serial No. 183,486. 10 Claims. (Cl. 273—121.)



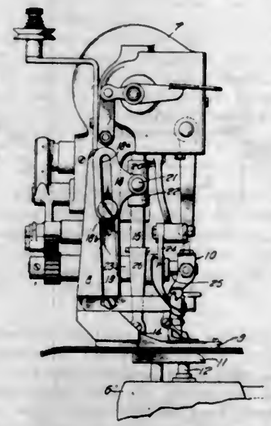
10. A game apparatus comprising a board, means for projecting balls over the board, targets mounted for movement to occupy displayed and concealed positions with respect to the surface of the board, and means for actuating the targets concurrently with the actuation of the ball projecting means to bring a new target into view upon each actuation of the projecting means.

1,678,190. TELEPHONE SYSTEM. LOUIS A. MORTIMER, Hohokus, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 2, 1927. Serial No. 195,943. 10 Claims. (Cl. 179—41.)



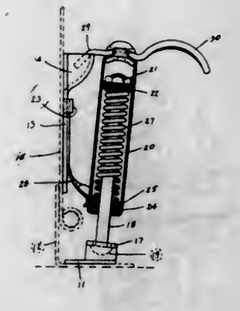
1. In a telephone system, a link circuit, a trunk line, means for connecting said link circuit to said trunk line and means common to said link circuit responsive to the establishment of said connection for impressing signaling current on said trunk line for a single period of predetermined duration.

1,678,191. FEEDING MECHANISM FOR SEWING MACHINES. CHARLES W. MUELLER, St. Louis, Mo., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo., a Corporation of Maine. Filed July 19, 1926. Serial No. 123,376. 4 Claims. (Cl. 112—212.)



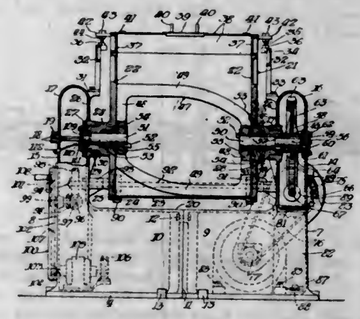
4. A feeding mechanism for sewing machines, comprising in combination a frame, a feed dog, a rotary shaft journaled in the frame, an actuating lever directly connected with the feed dog and having operative connection with said shaft, said frame being provided with a groove inclined to the axis of the lever, a fulcrum block for the lever adjustable along the groove, and means for securing said block against movement at any predetermined position of adjustment thereof.

1,678,192. AUTOMOBILE HOOD LATCH. QUINTIN G. NOBLITT, Indianapolis, Ind., assignor to Indianapolis Pump & Tube Company, Indianapolis, Ind., a Corporation. Filed July 11, 1927. Serial No. 204,882. 2 Claims. (Cl. 292—114.)



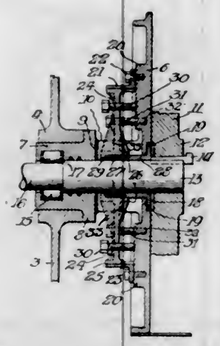
1. The combination with a vehicle hood and frame, of a latch therefor, comprising a keeper secured to said hood, a latch member yieldingly connected with said frame adjacent said hood, means thereon for engaging said keeper and exerting a downward pressure thereon, and a spring arm having one end thereof rigidly secured to the upper portion of said keeper plate and the free end thereof extending downwardly and outwardly toward said member in position to engage its lower end for causing a yielding lateral force to be exerted thereby against the hood when said latch member is in latching position.

1,678,193. DOUGH-MIXING MACHINE. FELIX NOTZ and GEORGE ROYAN, Chicago, Ill., assignors to American Oven & Machine Company, Chicago, Ill., a Corporation of Illinois. Filed July 23, 1925. Serial No. 45,491. 12 Claims. (Cl. 259—46.)



1. In a dough mixing machine, a frame formed with a divided base, the respective sections of which are separable, and each of said sections adapted to receive a relatively separate and independent power plant, a housing formed on each section of the base, and said housings extending upwardly in spaced relationship to each other to form a passage therebetween adapted to receive a mixing frame and mixing chamber of a dough mixing machine, the latter being journalled in the housings, and the respective housings each receiving the drive connections from one of the power plants in the base to the mixing frame and chamber.

1,678,194. PACKING RETAINER FOR DOUGH-MIXING MACHINES AND THE LIKE. FELIX NOTZ and GEORGE ROYAN, Chicago, Ill., assignors to American Oven & Machine Company, Chicago, Ill., a Corporation of Illinois. Filed July 23, 1925. Serial No. 45,492 4 Claims. (Cl. 286—33.)



4. A packing device of the class described, comprising a pair of members adapted for rotation with respect to each other, one of said members having a bearing portion, a packing gland on the other member adapted to engage the bearing portion, a packing retainer on the latter member, guideways on the latter member receiving the retainer for sliding movement axially, means for drawing the retainer against the packing and forcing the packing gland against the bearing portion, and means carried by the retainer and engaging the latter member to hold the retainer in adjusted position.

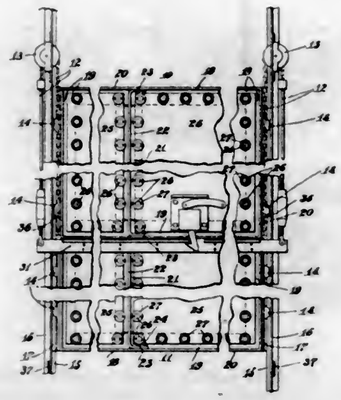
1,678,195. MECHANISM FOR CONVEYING AND WATER-COOLING TIE-PLATES. MELVIN OVESTRUD, Stillwater, Minn., assignor to Twin City Forge & Foundry Company, Stillwater, Minn., a Corporation of Minnesota. Filed Apr. 29, 1925. Serial No. 26,673. 7 Claims. (Cl. 266—6.)



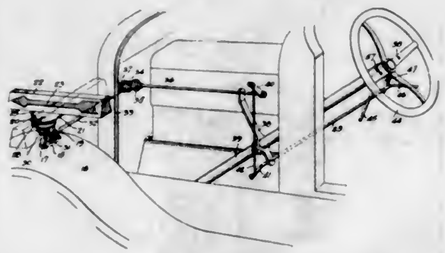
1. In a device of the class described, an inclined trough constituting spaced rails for slidably supporting objects along said trough, a conveyor adapted to slide objects along side rails from bottom to top of the trough, said conveyor being arranged to one side of said trough to provide an unobstructed way in the trough in which the most highly heated portions of said objects may be disposed, and means for introducing water into said trough at the upper end thereof.

1,678,196. ELEVATOR DOOR. CHARLES W. PEELLE, New York, N. Y., assignor to The Peelle Company, Brooklyn, N. Y., a Corporation of New York. Filed June 22, 1926. Serial No. 117,748. 10 Claims. (Cl. 189—46.)

1. An elevator door embodying therein an angle metal frame, one flange of which extends substantially parallel with the wall of an elevator shaft, and the other flange of which extends inwardly of the shaft, a flat metal plate closing the opening in said frame, and having dimensions to space the edges thereof away from said inwardly extending flange, and bolt openings about the edges thereof, bolts of smaller dimensions than said openings passing through the flange of said frame parallel with the wall and through said openings, and heat destructible means interposed between said bolts and said panel adjacent said openings, whereby, at normal temperatures, said bolts will hold said plate firmly in relation to said frame, and with the destruction of said heat destructible means clearance will be afforded for the expansion of said plate.

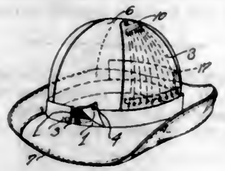


1,678,197. DIRECTION SIGNAL. DON W. PRATT, Santa Monica, Calif. Filed Feb. 15, 1926. Serial No. 88,382. 4 Claims. (Cl. 116—36.)



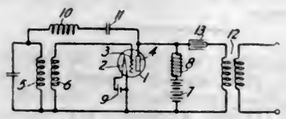
1. In a direction signal, rotatable mechanism for rotating a signal element in either direction including a manually operable shaft rotatable and movable longtudinally, means for urging the shaft longitudinally in one direction, arms fixed on the shaft, cams correlated to the arms for moving the shaft longitudinally against the action of said urging means when the shaft is rotated in either direction from its normal position, notches in the cams for latching the arms against movement following rotation of the shaft, tripping levers operable to remove the arms from the notches after the steering mechanism has been wholly turned and thereby permit the urging means to return the shaft to its normal longitudinal position and to cause the cams to rotate the shaft to its normal circumferential position, and detents adapted for mounting on a steering wheel and operable thereby to engage and trip the levers.

1,678,198. FISHERMAN'S HAT. PHILIP L. REHDER, Bayview, Idaho. Filed Dec. 10, 1926. Serial No. 153,831. 1 Claim. (Cl. 2—179.)



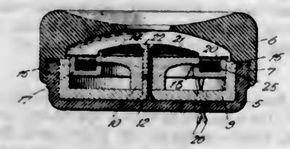
The combination of an annular, longitudinally foldable hat band for fisherman's use, including an inner fold, an outer fold having separable fastening devices on its adjoining ends for coaction with complementary devices on the inner fold, said folds adapted to form a pocket for leaders, and said leaders adapted to join the adjoining ends of the annular band when it is in place on a hat.

1,678,199. OSCILLATION GENERATOR. FRANCIS X. REITTENMEYER, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 27, 1926. Serial No. 84,056. 6 Claims. (Cl. 250—36.)



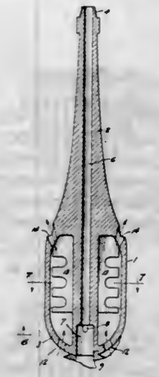
2. An oscillating circuit comprising a space discharge device having a discharge path and a control electrode, a circuit including in series said discharge path and a network of reactive impedances, the elements of said network being proportioned to make the network antiresonant at a preassigned frequency and resonant at a harmonic of said frequency, and impedance means for coupling said network and said control electrode, whereby the discharge device is caused to generate oscillations of said preassigned frequency.

1,678,200. TELEPHONE RECEIVER. MALCOLM C. RORTY, Paris, France, and JOHN C. POTTER, Madrid, Spain, assignors, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 5, 1926. Serial No. 79,294. 9 Claims. (Cl. 179—120.)



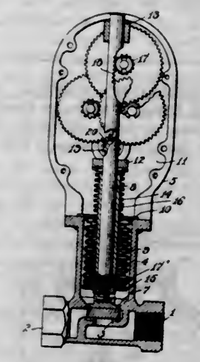
1. In a telephone receiver, a permanent magnet structure providing an annular gap, a soft iron pole piece located in said annular gap, a coil cooperating with said pole piece, and a diaphragm rigidly supported at its central portion and having its edge extending into cooperative relation with said pole piece.

1,678,201. ROTARY DRILL BIT. JOHN P. SAMUELSON, Compton, Calif. Filed Sept. 17, 1923. Serial No. 663,291. 10 Claims. (Cl. 255—61.)



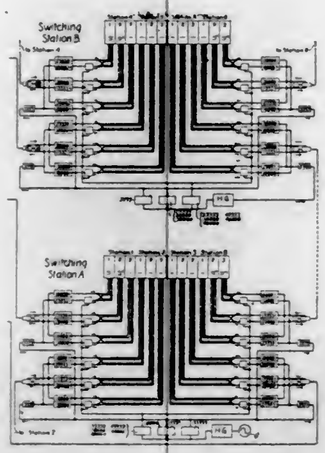
1. A rotary drill bit comprising a shell having cutting blades secured to the bottom thereof and a hollow shaft extending through the shell for admitting water to the bottom of a well to be drilled with perforations in front of the blades for allowing mud to enter into the shell and perforations in the top of the shell for allowing the mud to leave the shell.

1,678,202. ELECTRIC VALVE. PAUL F. SHIVERS, Wabash, Ind., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a Corporation of Delaware. Filed May 24, 1926. Serial No. 111,154. 5 Claims. (Cl. 137—139.)



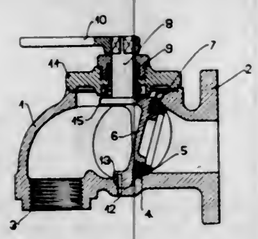
1. The combination with a valve casing and a reciprocating valve therein, means biasing said valve to closed position, of a rotary electric motor supported by the valve casing and arranged when energized to move said valve to and maintain it in open position against the biasing means, a power multiplying gear train supported by the valve body and connecting the rotor of said motor with said valve, and operable in one direction by said biasing means and means for stalling said motor while energized with the valve in open position, whereby said motor will maintain the valve opened, said biasing means being sufficient to overcome the inertia of the motor and gearing train and move the valve to closed position when the motor is de-energized.

1,678,203. COMMUNICATING AND SWITCHING SYSTEM. EDWIN H. SMYTHE, Evanston, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 27, 1923. Serial No. 621,635. 88 Claims. (Cl. 179—15.)



1. In a carrier wave communicating system, two lines, means for transmitting signals over each of said lines in the form of variations of a carrier wave, automatic switch mechanism, and means operating in response to variations in the carrier wave transmitted over one line for actuating said switch mechanism to operatively associate said two lines so that the signals transmitted over one line are repeated into the other line and transmitted thereover in the form of variations of a carrier wave.

1,678,204. SHUTTING-OFF DEVICE FOR STEAM PIPES AND THE LIKE. HERMANN SRULOWITZ, Vienna, Austria. Filed Jan. 6, 1926, Serial No. 79,625, and in Austria Jan. 19, 1925. 10 Claims. (Cl. 251—102.)



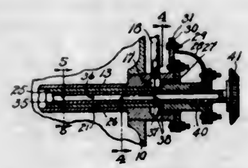
1. A stop valve of the rotary type comprising a valve casing with a passageway for a fluid, provided with a metallic rubbing surface, a metallic valve body capable of angular movement around an axis and comprising an operative part adapted to cover said passageway and capable of being rotated around an angle so as to be withdrawn into an inoperative operation, said operative part being at a certain distance from the metallic rubbing surface, both surfaces being arranged so as to leave a constant free gap between them during the rotary movement of the valve, an inflatable packing ring seated in the operative part of said valve body and capable of being inflated by the pressure of the fluid, said packing ring when inflated bridging the gap between the metallic valve body and the metallic rubbing surface.

1,678,205. BLOW-OUT DEVICE. CHARLES W. WYMAN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 10, 1922. Serial No. 551,388. 4 Claims. (Cl. 200—106.)



1. In a circuit breaker, a casing, a contact member fixed in said casing, a cooperating movable contact member telescopically received in said casing, catch means carried by said movable member and engaging said casing for maintaining said contact members in operative assembled relation, means responsive to excessive current flow for releasing said catch means, and means for ejecting said movable contact member from said casing on release of said catch means.

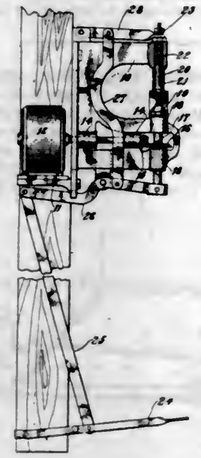
1,678,206. OILER. MATTHEW E. BENESH, Cicero, Ill., assignor to The Connersville Blower Co., Connersville, Ind., a Corporation of Indiana. Filed Feb. 28, 1927. Serial No. 171,590. 4 Claims. (Cl. 184—14.)



1. A lubricator comprising, an outer tube provided with discharge openings through its wall, an intermediate adjustable tube mounted in the outer tube and having through its wall a series of openings adjustably registrable to various extents with the openings through the outer tube, means for holding said intermediate tube in various adjusted positions, an inner tube journaled within the intermediate tube and having openings formed through its wall, registrable with the openings through the intermediate tube, means by which said inner tube may be rotated, and a supply line delivering into the interior of the inner tube.

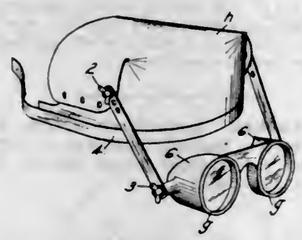
1,678,207. MACHINE FOR DRILLING AND COUNTERSINKING DRAKE LININGS. RUDOLPH BRANDT, San Francisco, Calif., assignor to Petry and Brandt, San Francisco, Calif., a Copartnership composed of Victor Petry and Rudolph Brandt. Filed Oct. 10, 1923. Serial No. 667,657. 2 Claims. (Cl. 77—5.)

1. In a drilling machine of the character described, a downwardly pointing stationary abutment of sleeve-like construction adapted to have a brake band placed against the underface thereof, a retractable pointer slidable within the sleeve and projecting downwardly therefrom and allowing a series of rivet holes in the brake band to be engaged therewith in quick succession while being viewed from above, a drill reciprocable below and in axial alignment



with the pointer and adapted to be advanced toward the pointer, and means for advancing the drill and for retracting the pointer in timed relation.

1,678,208. ADJUSTABLE HELMET AND GOGGLES. HOWARD E. CHAMBERS, Los Angeles, Calif. Filed Jan. 13, 1925. Serial No. 2,079. 3 Claims. (Cl. 2—14.)

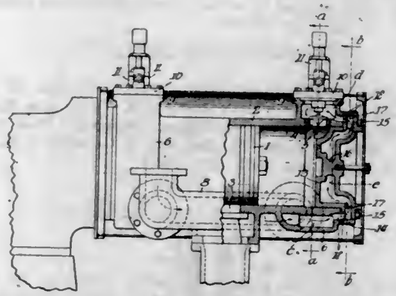


3. An adjustable head and eye protector, comprising a helmet of stiff fire resisting material adapted to fit over the front and top of the head of the wearer, and being open at the back of the head, securing means for the helmet extending from the open back thereof, a pair of links pivoted to the sides of the helmet at the forward end of the latter, a pair of goggles pivoted to the free ends of the links, said links adapted to extend vertically downward to support the goggles in front of the eyes of the wearer and adapted to be swung upwardly to position the goggles above the helmet, and clamping means for the links to bind the same in adjusted positions and support the links and goggles from the stiff helmet.

1,678,209. UNIFLOW ENGINE. HARRY A. CHUSE, Mattoon, Ill., assignor, by mesne assignments, to Mattoon Engine Works, Mattoon, Ill., a Corporation of Illinois. Filed Feb. 7, 1923. Serial No. 617,463. 5 Claims. (Cl. 121—181.)

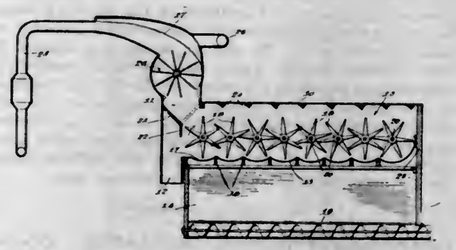
1. In a terminal exhaust steam engine, a cylinder having a steam jacket confined to and encircling its inlet end, said jacket being divided into two segmental chambers, one having a steam supply, an inlet valve arranged in the other of said chambers, and a hollow head for the cylinder having a circular series of ports arranged closely adjacent

the periphery of its chamber and communicating with the chambers of the cylinder jacket, the ports communicating with one of said jacket chambers being symmetrically and



diametrically disposed with reference to the ports communicating with the other of said chambers substantially as described.

1,678,210. COTTON-BOLL BREAKER AND CLEANER. FREDERICK T. CUMPSTON, Blooming Grove, Tex. Filed Apr. 20, 1926. Serial No. 103,343. 9 Claims. (Cl. 19—38.)



1. A cotton boll breaking and cleaning apparatus including a casing having an upper inlet and a lower outlet at the same end, a series of beaters therein arranged to receive unopened bolls and cotton from said inlet upon the upper portions of the beaters at one end of the series, a series of breaker bars arranged above and between the beaters, means for imparting rotation to the beaters whereby to cause the same to throw the bolls and cotton upwardly against the breaker bars and from one beater to the other throughout the series, and a screen below the series of beaters extending to the outlet of the casing and along which the cotton and trash are pushed by the lower portions of the beaters.

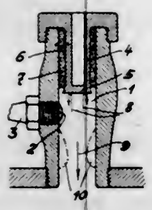
1,678,211. PNEUMATIC TIRE. GEORGE FREDERICK DAVIDSON, Shortlands, England. Filed Oct. 11, 1924, Serial No. 743,065, and in Great Britain Jan. 1, 1924. 1 Claim. (Cl. 152—10.)



A pneumatic tire comprising in combination a tread, a textile carcass two side walls integral with said tread and means for supporting said side walls when the tire is

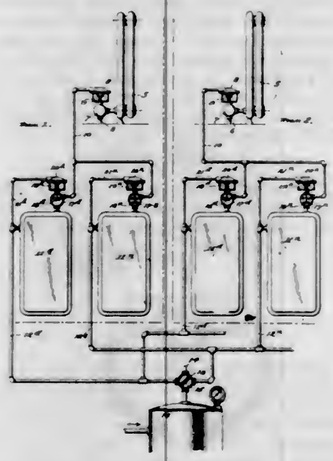
under load, comprising a rigid self-supporting and floating tubular band of substantially triangular cross-section embedded in the tire so as to reside between the textile carcass and the tread with its base opposing the tread and its apex serving to deform the textile carcass inwards to the air space of the tire.

1,678,212. AUXILIARY COMBUSTION SPACE IN INTERNAL-COMBUSTION ENGINES. WILHELM EBERHARD ERNST, Berlin-Schoneberg, Germany. Filed Nov. 11, 1924, Serial No. 749,298, and in Germany Nov. 16, 1923. 3 Claims. (Cl. 123—143.)



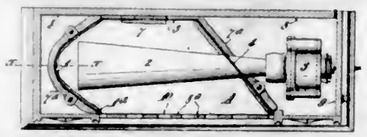
1. In an internal combustion engine, in combination, a main combustion chamber, an auxiliary combustion chamber freely communicating with the main combustion chamber, ignition means arranged in the auxiliary chamber, and a reflecting surface in the auxiliary chamber at some distance behind the ignition means and adapted to reflect initial ignition waves into the main combustion chamber and providing chambers suitable for the reception of non-ignitible gases during the compression, the reflecting surface and the igniting means being so arranged relative to the spaces for receiving the combustion gases that at the moment of the ignition, the ignition means and the reflecting surface are free of exhaust gases.

1,678,213. TEMPERATURE REGULATION. CHARLES LYMAN FORTIER, Milwaukee, Wis., assignor to Johnson Service Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 27, 1926. Serial No. 157,345. 12 Claims. (Cl. 236—36.)



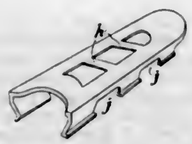
1. The combination of pressure actuated heat controlling means; a plurality of fluid pressure controlling thermostats adapted in alternation one with another to control the supply of motive fluid to said means; individual pressure fluid supply lines connected with corresponding ones of said thermostats; and adjustable means for supplying pressure fluid to said lines selectively.

1,678,214. ACOUSTIC AMPLIFIER AND RADIATOR. EDWARD ALFRED GRAHAM, deceased, Brockley, London, England, by Maria Graham, executrix, Beckenham, England, and Alfred Graham, executor, Forest Hill, London, England, assignors to Graham Amplion Limited, London, England. Filed Dec. 24, 1926, Serial No. 156,967, and in Great Britain Feb. 20, 1926. 25 Claims. (Cl. 181—27.)



24. An acoustic amplifier and radiator comprising a cabinet having a sound exit at the front and a door at one end, a concave reflector, a flat reflector, and a rear wall connecting the rear ends of said reflectors, said reflectors and rear wall being arranged vertically within said cabinet between the top and bottom walls thereof with the flat reflector inclined to the axis of said concave reflector and to the front of said cabinet, a straight sound conduit extending through the flat reflector and having its outlet end disposed opposite said concave reflector, the axes of said concave reflector and conduit being substantially coincident, and a telephonic receiver connected to the inlet end of said conduit and located between said flat reflector and door.

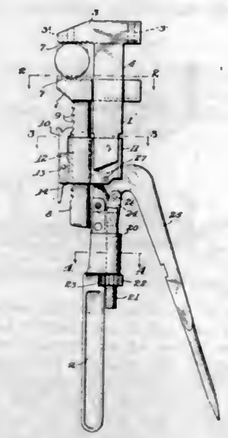
1,678,215. MARKER. ALBERT CECIL GREENE, Willesden Junction, London, England. Filed Apr. 7, 1926, Serial No. 100,356, and in Great Britain Aug. 15, 1925. 9 Claims. (Cl. 94—1.5.)



6. A road or ground marker comprising a rigid sheath composed of a surface member having a top to lie flush with the ground surface, longitudinal converging side members depending from each lateral edge of the said top and laterally projecting and diverging lugs at the bottom of said side members, the said lateral lugs being located within the vertical planes including the longitudinal edges of the top.

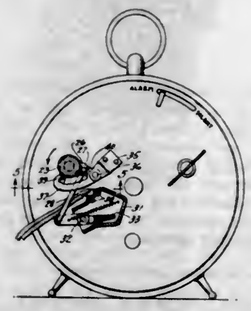
1,678,216. WRENCH. BENJAMIN J. GREER, Athens, Tex., assignor of one-half to Merriott A. Jackson, Athens, Tex. Filed Mar. 12, 1927. Serial No. 174,835. 3 Claims. (Cl. 81—88.)

1. A wrench including a body portion, fixed and movable jaws on said body portion, means for permitting a coarse adjustment of said movable jaw, a toggle for moving said jaw to clamping position, and threaded means



having a non-yielding connection with said toggle for giving a finer adjustment to said movable jaw prior to moving the same to clamping position.

1,678,217. TIME-CONTROLLED CIRCUIT CONTROLLER. ROBERT R. GONSETT, Los Angeles, Calif., assignor, by direct and mesne assignments, of one-half to Amory J. Smith, one-eighth to Wesley D. Spencer, and one thirty-second to Virgil V. Ullom, Los Angeles, Calif. Filed Aug. 12, 1926. Serial No. 128,841. 3 Claims. (Cl. 200—38.)



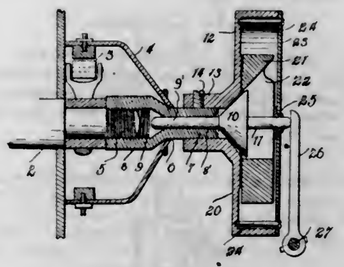
1. A circuit controller comprising a stem adapted for connection with the alarm winding arbor of a clock to rotate with the arbor, a lug fixed on the stem, an arm rotatable on the stem, a switch having a movable contact arm, a connecting link between the contact arm and the rotatable arm, an extension on the rotatable arm adapted to be engaged by the lug, and an escapement pawl capable of pivotal and lateral movements and disposed in the paths of movement of the lug and extension, the original set position of the lug and extension being such that when the stem rotates in its unwinding movement the lug through the extension actuates the link to move the contact arm and close the switch, with the extension being ultimately engaged by the pawl and thus checking further movement of the lug and consequently further unwinding movement of the stem.

1,678,218. ANTIGLARE SHIELD AND METHOD OF MAKING THE SAME. ROLAND M. GRUSS, San Francisco, Calif. Filed June 21, 1926. Serial No. 117,451. 8 Claims. (Cl. 296—97.)



1. An anti-glare shield comprising two panes of solid transparent material slightly separated from each other and secured together, and a dilute, non-freezing solution of fluorescein compound therebetween.

1,678,219. GOVERNOR FOR EXPLOSIVE ENGINES. ALBERT HANSEN and MORTEN J. TORP, Harlan, Iowa. Filed Mar. 17, 1927. Serial No. 176,252. 1 Claim. (Cl. 264—16.)

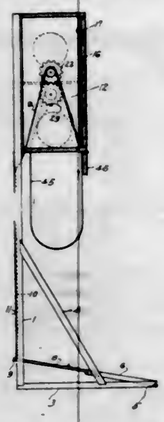


A governor for explosive engines, in combination with the cam shaft and throttle valve thereof, said cam shaft having a threaded end, a distributer associated with the cam shaft and including a shell having an opening therein, a spindle engaged in said opening and having a head for detachable engagement with the threaded end of the cam shaft, a casing rotatable with the spindle, governor weights pivotally mounted in the casing and including angularly disposed arms, certain of the arms having beveled faces, a cone carried by the spindle, a pin carried by the cone, the governor weights being operable by centrifugal force to cause the beveled faces to engage the cone to slide the pin, and means operable by the pin for controlling the movement of the throttle valve.

1,678,220. SANITARY ROLL-TOWEL CABINET. EDWARD TROY HAILS, Montgomery, Ala., assignor to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed Oct. 18, 1923. Serial No. 669,333. 5 Claims. (Cl. 312—38.)

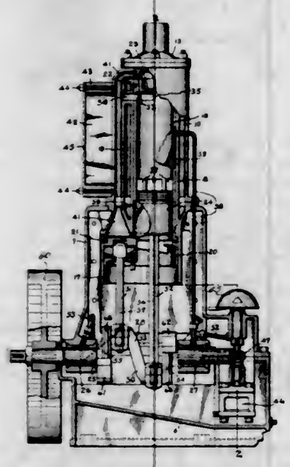
1. A roll towel cabinet having a clean towel roll in its bottom portion, a soiled towel roll in its upper portion, feed rolls connected together for simultaneous movement, one of said feed rolls being in frictional engagement with the towel of the soiled towel roll, the toweling from the clean towel roll passing to the rear of the clean towel roll, thence downwardly and upwardly in front of the clean towel roll to the soiled towel roll, an apron in front of the clean towel roll, an apron in front of the clean towel roll having a groove therein and a door out-

side the apron, the construction being such that the clean towel roll may be first inserted in the cabinet, the towel threaded over a roller and thence downwardly



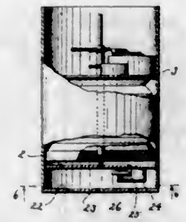
through the loop and said groove, thence upwardly in front of the clean towel roll and around the other roll onto the soiled towel roll.

1,678,221. INTERNAL-COMBUSTION ENGINE. JOHN B. HIRD, Jr., Seattle, Wash., assignor, by direct and mesne assignments, to Hird-Anderson Machinery Co., a Corporation. Filed Sept. 5, 1924. Serial No. 736,005. 3 Claims. (Cl. 123—50.)



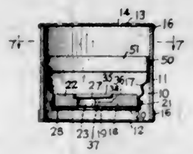
1. In an engine, a cylinder having, at the lower end, an eccentrically arranged chamber of larger diameter and having a fuel passageway connecting the upper end of the cylinder with the upper end of the enlarged eccentric chamber, said cylinder having exhaust ports and having inlet ports that communicate with said fuel passageway, a tubular piston reciprocable in said cylinder and having an enlarged eccentrically disposed bottom end reciprocable in said enlarged piston chamber, said tubular piston having exhaust and inlet ports arranged to register with the respective exhaust and inlet ports of said cylinder and another piston reciprocable in said tubular piston.

1,678,222. DOLL'S VOICE. THEODORE HUTNIKOW, Brooklyn, N. Y., assignor to Voices Incorporated, Newark, N. J., a Corporation of Delaware. Filed Sept. 13, 1922, Serial No. 587,888. Renewed Nov. 19, 1927. 14 Claims. (Cl. 46—46.)



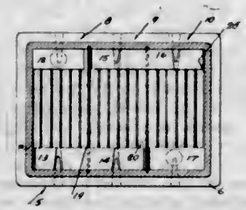
13. In a device of the class described, sound producing means including a reed and an air chamber having a movable wall to cause a flow of air through said reed, and means for controlling the emission of sound from said reed comprising an arm pivoted intermediate of its ends, a valve element on said arm at one side of its pivot, a yieldable member on said arm at the other side of its pivot and having a part substantially parallel with the movable chamber wall, and means coacting with said part of the yieldable member to actuate said valve arm.

1,678,223. SOUND-PRODUCING DEVICE. THEODORE HUTNIKOW, Brooklyn, N. Y., assignor to Voices Incorporated, Newark, N. J., a Corporation of Delaware. Filed Nov. 30, 1925. Serial No. 72,098. 3 Claims. (Cl. 46—46.)



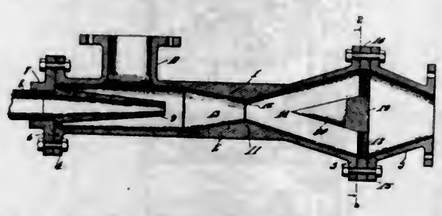
1. In a sound producing device, a cylindrical casing of uniform diameter, a flexible tubular bellows wall within said casing having an open end fixed to the inner face of the casing wall intermediate the ends thereof, a weighty head closing the other end of said tubular wall and movable through the open end thereof to positions adjacent the opposite ends of the casing, and a sound producing element operated by a flow of air in the movement of said weighty member.

1,678,224. LEAD STORAGE BATTERY. ANTHONY KASTELIC, Richmond, Calif. Filed Jan. 28, 1926. Serial No. 84,469. 2 Claims. (Cl. 136—6.)



1. In a storage battery of the character described, a container having positive and negative plates arranged therein in alternating succession, lead partitions interposed between sets of plates and forming separate sections, and straps interconnecting plates of the same polarity in each section and plates of opposite polarity in adjacent sections, the said straps being electrically connected to the partitions separating adjacent sections.

1,678,225. AGITATOR FOR CHEMICALLY PURIFYING OIL. JERRY W. KINCADE, Lethbridge, Alberta, Canada. Filed Oct. 28, 1926. Serial No. 144,882. 1 Claim. (Cl. 259—4.)



1. An injector of the class described, comprising a casing consisting of a pair of sections, a baffle member including a ring for engagement between the ends of the sections, means engaged with the sections and ring for maintaining said sections and ring in fixed engagement, said ring having radially disposed spreader bars merging at their inner ends with a hub, a conical spreader carried by the hub, said bars and conical spreader being disposed in opposition to the flow of fluid through the casing.

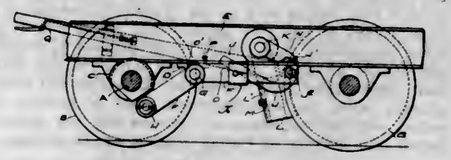
1,678,226. TOY REPRESENTING A TURKEY GOBBLER. ITURA ROSALIEN LEIGH, Grantville, Ga. Filed Oct. 8, 1927. Serial No. 224,932. 1 Claim. (Cl. 46—40.)



1. A toy in the form of a miniature turkey gobbler comprising an entire pine cone, legs comprising four strands of wire partly covered with tissue paper the whole being bent at its middle portion unto U-shape and inserted between the burrs of the cone and closely surrounding the core of the cone and glued thereto the ends of the strands being spread out to form the toes, the neck and head of the top being made of papier-mâché covered with tissue paper and coated with hardening material soaked thereinto to hold the parts in shaped position, the head and neck terminating at its lower portion in a concave surface with a tassel attached to its inner surface, and the neck portion glued to the end of the cone.

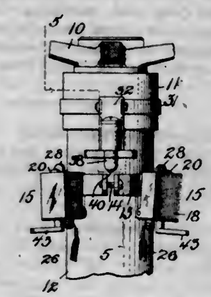
1,678,227. BRAKE FOR VEHICLES. GEORGE MCGHEE, Tollcross, Scotland. Filed Apr. 28, 1925. Serial No. 26,460, and in Great Britain May 9, 1924. 2 Claims. (Cl. 888—181.)

1. Brake for vehicles arranged to be applied automatically when the vehicle moves at greater than the determined speed and comprising a revoluble element, a cam thereon, a lever having a fixed support and engaged and arranged to be operated by the cam, a weighted lever pivoted to the free end of the first named lever and



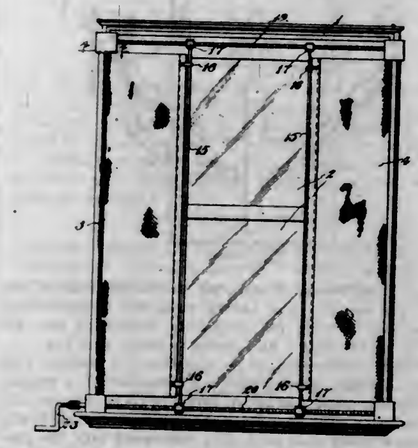
having a finger piece, a brake block, and a lever to operate said brake block, said last named lever being engageable by said finger piece when the extent of movement of the first lever by said cam is sufficient.

1,678,228. CIRCUIT-CLOSING DEVICE. CHARLES E. MORRIS, Newark, N. J. Filed May 20, 1926. Serial No. 110,333. 6 Claims. (Cl. 200—59.)



1. A circuit closing device comprising a set of switches, an actuating means for the switches, and a trip to make the actuating means inoperative after it passes the first switch that it actuates and resets it on its return toward said first switch.

1,678,229. CURTAIN AND OPERATING MEANS THEREFOR. RINO PARISI, Rimer, Pa. Filed Nov. 30, 1927. Serial No. 236,777. 5 Claims. (Cl. 156—26.)



1. In a structure of the character described, vertically disposed rollers, means to rotatably mount the rollers at opposite sides of a passage, curtains wound upon said

rollers and when unwound therefrom having movement towards each other across the opening, rods connected with the free ends of the curtains and projecting above and below the same, internally threaded sleeves carried by said rods, shafts each having oppositely threaded portions, means to rotatably support said shafts above and below said rollers, said sleeves being threaded upon adjacent shafts, means to import rotary motion to one shaft, and interengaging gears carried by the shafts and rollers whereby when the last-mentioned shaft is rotated the rollers will be simultaneously rotated and the curtains moved into and out of closing relation to the passage.

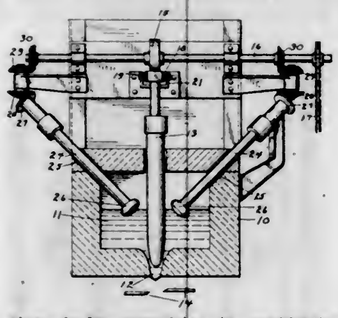
1,678,230. PROCESS FOR THE PRODUCTION OF HIGH-ALPHA-CELLULOSE FIBER. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Apr. 28, 1925, Serial No. 26,362. Renewed July 9, 1927. 11 Claims. (Cl. 92—13.)

1. A process which comprises digesting predigested pulp in an alkaline liquor containing sodium compounds, re-employing one portion of the spent liquor in another digestion of like pulp and recovering the sodium compounds in the other portion of spent liquor, together with the sodium compounds contained in the spent liquor resulting from the production of pulp from raw cellulosic material.

1,678,231. STEEL PRINTING BODY AND METHOD OF PRODUCING THE SAME. HELENA S. SADTLER, Springfield Township, Montgomery County, Pa. Filed June 6, 1924. Serial No. 718,237. 2 Claims. (Cl. 41—43.)

1. The method of producing steel printing bodies, which consists in subjecting the same to a hardening process including the addition of carbon to carbonize the same, grinding and polishing the hardened body to provide the same with a true and even surface, and thereafter etching said surface to form characters or designs thereon.

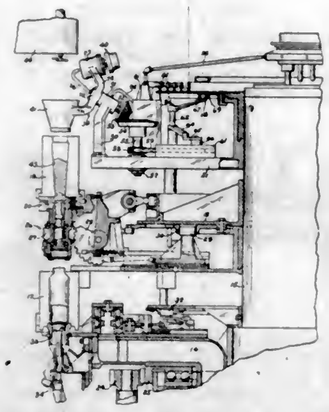
1,678,232. GLASS FEEDER. LEONARD D. SOUBIER, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 3, 1924. Serial No. 696,501. 10 Claims. (Cl. 49—55.)



4. A glass feeder comprising in combination a container for molten glass having an outlet in its bottom, an inclined stirring rod projecting downward into the glass above the outlet, and means to rotate said rod.

10. The combination of a container for molten glass having an outlet opening in the bottom thereof, a regulating plug extending downward into the glass over the outlet, means to periodically reciprocate said plug vertically, inclined stirring rods projecting downward into the glass at opposite sides of the plug and formed at their lower ends with stirring heads dipping into the glass, and automatic means for continuously rotating the stirring rods about their own axes.

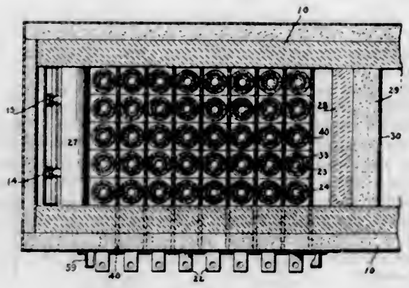
1,678,233. GLASS-FORMING MACHINE. LEONARD D. SOUBIER, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 8, 1926. Serial No. 100,518. 14 Claims. (Cl. 49—5.)



1. A glass forming machine comprising in combination, a rotary mold carriage, a mold thereon open at its upper end to receive a charge of glass, a guide for directing the charge into the mold, a carrier for the guide, mounted on the mold carriage and means to oscillate the carrier about a non-vertical axis and thereby alternately lift and lower the guide out of and into a position over and in register with the mold.

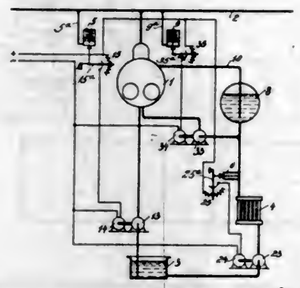
4. A glass forming machine comprising in combination, a rotating mold carriage, a mold thereon, a shaft mounted on said carriage with its axis inclined to the axis of the mold carriage, a guide mounted on the shaft for directing charges of glass into the mold, and means controlled by the movement of the carriage to revolve the guide about the axis of the shaft into and out of charge guiding position over the mold.

1,678,234. GLASSWARE-ANNEALING LEER. LEONARD D. SOUBIER, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed July 2, 1927. Serial No. 203,188. 18 Claims. (Cl. 49—47.)



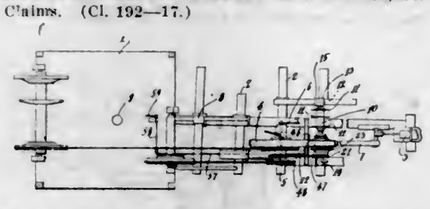
9. A heating unit of the class described comprising sets of transversely spaced tubes, electric heating elements individual to the tubes, means to supply electric current to the heating elements, current flow regulators individual to each transverse set of tubes, and means whereby adjustment of each regulator functions to vary the number of effective heating elements in each transverse set.

1,678,235. STEAM BOILER. WALDEMAR STENDER, Berlin-Charlottenburg, Germany, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Sept. 30, 1924, Serial No. 740,752, and in Germany Sept. 27, 1923. 8 Claims. (Cl. 122—35.)



1. In a steam boiler plant the combination of a boiler, a waste gas water heater, means for feeding the boiler with cold water, means for feeding the boiler with waste gas heated water, means for substantially continually feeding cold water through said water heater, means for storing the heated water and means responsive to load variations of the boiler for controlling the ratio between the amount of heated and cold water, to be fed into the boiler, in dependence from the boiler load.

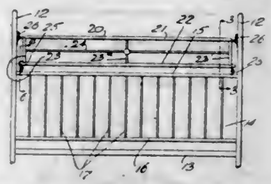
1,678,236. CHAIN-DRIVE SAND-REEL ATTACHMENT. EDWARD TIMBS, Los Angeles, and LEWIS E. ZEABE, Moneta, Calif., assignors to The National Supply Company of Delaware, New York, N. Y., a Corporation of Delaware. Filed Oct. 4, 1926. Serial No. 139,468. 6 Claims. (Cl. 192—17.)



3. In a sand reel attachment, the combination of a quill shaft, a sprocket slidably mounted on the shaft, a hub splined to the said quill shaft, a hub journaled on the shaft, means secured to the said hub for holding a clutch ring of a clutch, a spider journaled on the said quill shaft intermediate the splined hub and the journaled hub, an inner clutch plate and an outer clutch plate, means secured to the said spider and adapted to be actuated from the splined hub for engaging the inner and outer plates with the said clutch ring, and braking means mounted on the said spider.

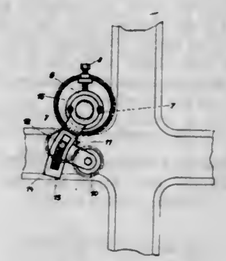
1,678,237. CRIB OR BED AND THE LIKE STRUCTURE. CHARLES VALLONE, Buffalo, N. Y., assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Filed Sept. 26, 1925. Serial No. 58,904. 6 Claims. (Cl. 5—100.)

1. In a side frame for a crib or the like, the combination of an upright stationary section, a movable section adapted to occupy an upright, operative position above and adjacent said stationary section, securing means for holding said movable section in said upright position and which is constructed to permit said section to be released therefrom by an upward and forward movement to swing to a downwardly extending, inoperative position alongside said stationary section, and a hinge connection between said sections which is constructed to permit such movements, said hinge comprising a fixed arm extending upwardly from the top of said stationary section, a fixed arm extending outwardly and downwardly from the bottom of said movable section and having its free end offset and extending downwardly, said other arm having its end disposed in horizontal alinement with said offset end of said second arm and both of said ends



being arranged in a vertical transverse plane, a transverse link disposed alongside of, and pivotally connected to the ends of said arms, a stop on said link extending laterally therefrom into said plane of said arms, and a stop shoulder on said first mentioned arm adapted to be engaged by said stop on said link to hold said movable section in upright, operative position, and a second stop shoulder on said arm also adapted to be engaged by said stop on said link to limit said upward releasing movement of said section.

1,678,238. CRANK-SHAFT MECHANISM FOR THE SLAY OF LOOMS. HERBERT WOLFF, Polzig, Germany, assignor to Progress Gesellschaft für Textilmaschinen mit beschränkter Haftung, Nuremberg, Germany, a Corporation of Germany. Filed Jan. 26, 1927, Serial No. 163,657, and in Germany Aug. 14, 1926. 2 Claims. (Cl. 139—190.)



1. In crank shaft driving mechanism for the slay of looms including its crank shaft, a construction including a toothed driving wheel, an eccentrically mounted toothed wheel in connection with the crank shaft for the slay and a resiliently mounted intermediate toothed wheel in engagement with both the first mentioned wheels, substantially as described.

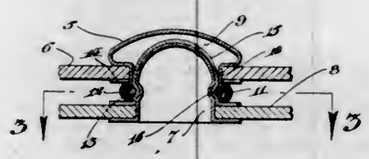
1,678,239. METHOD OF MANUFACTURING JOINTED JEWELRY. ARMAND BAYARDI and ETTORE E. BAYARDI, Chicago, Ill. Filed Mar. 10, 1925. Serial No. 14,385. 9 Claims. (Cl. 29—160.6.)



1. The method of manufacturing jointed jewelry from an integral channel shaped bar to produce a plurality of sections pivotally connected, which consists in forming

hinge receiving recesses in and extending through the walls of the channel in the bar, the walls of the recesses being substantially parallel, then bending the bar to cause the recess walls to converge from the base of the recesses outwardly for temporarily holding against displacement hinge plates that are inserted in said recesses, then securing the hinge members in said recesses, and then severing the bar in alinement with the knuckle of the hinge.

1,678,240. SNAP FASTENER. GUSTAV A. BENZ, Philadelphia, Pa. Filed Apr. 22, 1927. Serial No. 185,705. 2 Claims. (Cl. 24—208.)



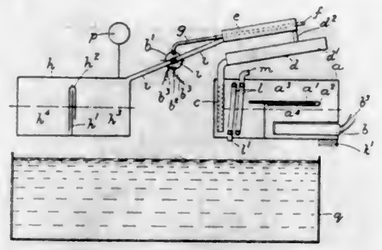
1. A snap fastener for securing two pieces of material together including a socket member, a shank formed integral with the socket member and extending through one piece of material, shoulder on the socket member disposed at right angles to the shank and abutting one side of the material, a washer on the shank abutting the other side of the material, an expanded end on the shank, a spring ring in the expanded end, an apertured retainer shaped over the expanded end and abutting the washer, and a dome shaped stud secured to the other piece of material and provided with an annular groove adapted to be engaged by the spring ring for holding the stud in the shank; but slight clearance being provided between the stud and shank whereby it is necessary to move the stud directly away from the socket member in order to remove same therefrom.

1,678,241. SHOE-FASTENING DEVICE. GUSTAV A. BENZ, Philadelphia, Pa. Filed May 24, 1927. Serial No. 193,788. 1 Claim. (Cl. 24—73.)



Means for fastening together the uppers of a shoe comprising a gripping device on one of the uppers, said device having a holding shank between the leather and lining of the upper, a fastening means on said upper, an eyelet in the other upper in alignment with the gripping device and fastening means, the underside of the eyelet being secured between the leather and lining of said second upper, a washer between the leather and underside of the eyelet for keeping the eyelet rigidly in place, the eyelet and gripping device being positioned close together so that a foot may be shielded therefrom by the tongue of the shoe, a strap passing through the eyelet adapted to have one end adjustably positioned within the gripping device and means on the other end for securing said strap to the fastening means in a position covering the gripping device.

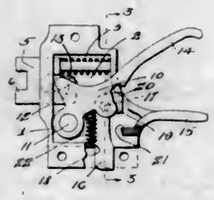
1,678,242. ABSORPTION REFRIGERATING APPARATUS. JENS ORTEN BOVING, Westminster, London, England. Filed Dec. 22, 1926, Serial No. 156,275, and in Great Britain May 21, 1926. 6 Claims. (Cl. 62—118.)



1. In a rocking reversing absorption refrigerating apparatus, a boiler-absorber, condenser and evaporator, intercommunication means between said boiler-absorber and said condenser and evaporator, and means restraining and eventually abruptly effecting the distribution of liquid in said boiler-absorber.

2. In a reversing absorption refrigerating apparatus, a boiler-absorber, condenser and evaporator, intercommunication means between said boiler-absorber and said condenser and evaporator, and means restraining and means eventually abruptly effecting the distribution of liquid in said evaporator.

1,678,243. COMBINED SASH HOLDER AND STARTER. EDWARD F. CHAFFEE, Syracuse, N. Y., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Apr. 14, 1927. Serial No. 183,880. 1 Claim. (Cl. 292—5.)

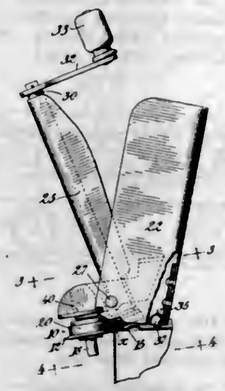


A combined sash holder and starter comprising a base, sash holding mechanism carried by the base including a movable element, a vertically movable sash starter pivotally connected to said element to be actuated thereby and to shift laterally relatively thereto, the said member being formed with an angular radially extending arm, and the base being formed by spaced apart shoulders arranged to engage said arm, one shoulder being arranged to engage one arm when the member approaches the end of its throw in one direction, and the other being arranged to engage said arm when said member is at the limit of its throw in the other direction.

1,678,244. CAN OPENER. SEWELL DAVIS and ALPHONSE LA FON, Newark, N. J., assignors to Polly Wiggin, Inc., Newark, N. J., a Corporation of Delaware. Filed Sept. 23, 1925. Serial No. 58,080. 9 Claims. (Cl. 30—3.)

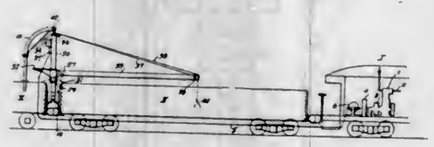
1. A can opener comprising a cutter and a feed and pressure roller coacting with said cutter, a pair of

levers on which said cutter and said feed and pressure roller are respectively mounted and by which said cutter and roller are adapted to be brought together from



opposite sides of the seam of a can, a drive shaft carrying said feed and pressure roller mounted longitudinally of the lever on which said roller is mounted.

1,678,245. CAR-UNLOADING APPARATUS. WILLIAM E. DICKINSON and JOSEPH J. MORGAN, New Haven, Conn. Filed Oct. 19, 1926. Serial No. 142,579. 18 Claims. (Cl. 212—65.)

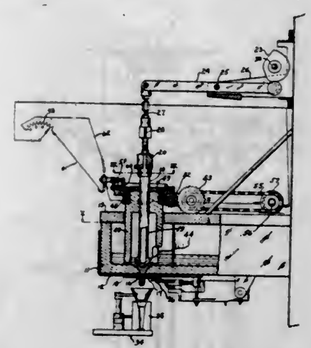


1. In an apparatus of the character described, a derrick support embodying a suitable base adapted to be positioned between the contiguous ends of two adjacent cars of a train and below the tops of said cars, means for securing the forward end of the base to the forward car, means for securing the rearward end of the base to the rear car, and a derrick stepped upon said base for rotary movement thereon.

1,678,246. PRODUCTION OF ALKALI-METAL COMPOUNDS FROM SILICATES CONTAINING THEM. THOMAS A. EDISON, Llewellyn Park, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a Corporation of New Jersey. Filed June 28, 1922. Serial No. 571,394. 5 Claims. (Cl. 23—33.)

5. The herein described method which consists in mixing finely divided silicate containing an alkali metal with an alkaline earth hydrate and water, subjecting the mixture to sufficient heat to free the alkali metal from the silicate, and subjecting the resultant mass to a head of liquid sufficient to remove therefrom by displacement the water and soluble salts therein, substantially as described.

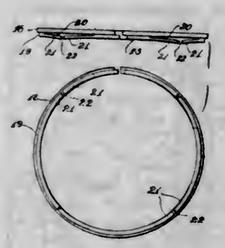
1,678,247. METHOD AND MEANS FOR FEEDING AND SHAPING MOLTEN GLASS. ENOCH T. FERNGREN, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 1, 1924. Serial No. 753,107. 24 Claims. (Cl. 49—55.)



6. The combination with a container for molten glass having an outlet opening in the bottom thereof, means to supply molten glass to the container at one side of said outlet, a baffle extending into the glass, means to rotate the baffle and thereby shift the path of flow of the glass to the outlet, and means to periodically vary the speed of rotation of the baffle.

24. The method of keeping the glass which is circumlocal to a glass releasing outlet, in a state of like mobility, consisting in constantly changing at a periodically varying rate of speed, the path of movement of a major portion of a stream of glass flowing to the outlet, and correspondingly changing the path of movement of a minor portion of said stream of glass.

1,678,248. PISTON RING. HARRY S. FRANK, Brooklyn, N. Y. Filed Jan. 15, 1925. Serial No. 2,480. 3 Claims. (Cl. 74—109.)

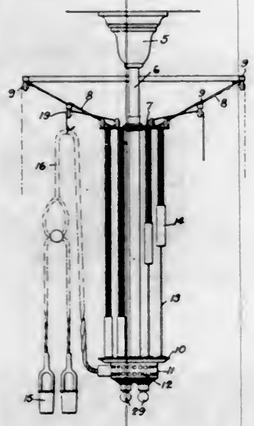


1. A laterally expanding piston ring comprising a ring body having facial prong-shaped resilient extensions expanding axially and radially outwards.

1,678,249. FIXTURE. ERNEST O. FREDERICS, New York, N. Y., assignor to E. Frederics, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 23, 1926. Serial No. 130,873. 10 Claims. (Cl. 219—24.)

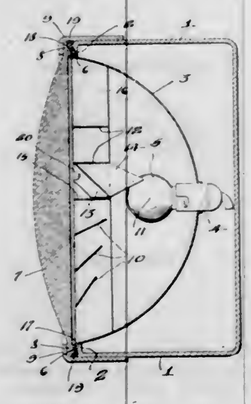
9. A fixture, including a stem, an outlet block at the lower end of the same, a ring member within said block,

a pair of semicircular ring members also disposed within said block and spaced from each other and from said first ring member, a source of electrical current supply having one of its leads connected with said first-mentioned ring member, the other of its leads being connected with both of said semi-circular ring members,



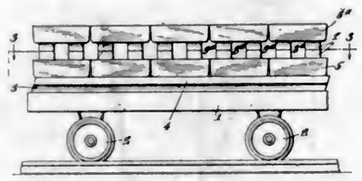
current-consuming elements, connecting members extending between the same and said ring members, means for disconnecting said source of current supply from either of said semi-circular ring members, and signalling means associated with each of said semi-circular ring members for indicating when they are in closed circuit.

1,678,250. REFLECTOR SHIELD FOR HEADLIGHTS. GEORGE A. HENDEY and RUDOLPH A. SCHATZEL, Rome, N. Y.; said Schatzel assignor to said Hendey. Filed Nov. 10, 1926. Serial No. 147,558. 4 Claims. (Cl. 240—48.4.)



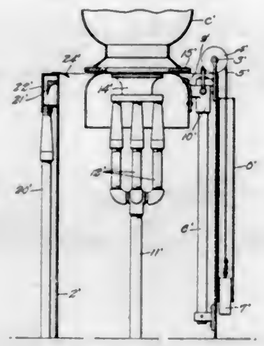
4. In a headlight, a reflector, a lamp located with its source of light near the axis of the reflector and a deflector located in the angle formed by the horizontal and vertical planes intersecting in the axis of the headlight, the deflector being arranged in front of the lamp at one side of and above the axis and inclining downwardly and laterally, said deflector also extending forwardly and rearwardly in a general direction parallel to the axis of the reflector and terminating short of the lamp.

1,678,251. SUPERSTRUCTURE FOR TUNNEL-KILN CARS. DWIGHT BUSHNELL HENDRYX, Bradford, Pa., assignor to Hanley Company, Bradford, Pa., a Corporation of Pennsylvania. Filed July 21, 1927. Serial No. 207,441. 5 Claims. (Cl. 25—142.)



1. A tunnel kiln car having a superstructure comprising a course of blocks of refractory material, supported upon blocks of standard brick size.

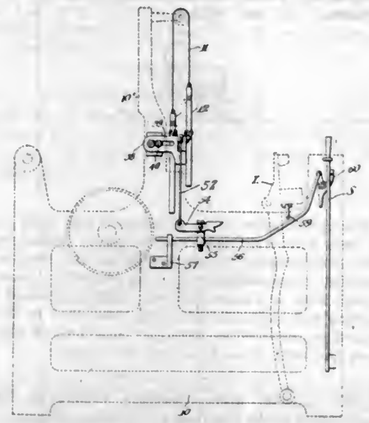
1,678,252. CAN-WASHING DEVICE. IRA H. KENDALL, Potsdam, N. Y., assignor to The Kendall Patents, Inc., Potsdam, N. Y., a Corporation of New York. Filed Dec. 29, 1923. Serial No. 683,308. 6 Claims. (Cl. 141—7.)



1. In washing devices for cans or other receptacles, the combination of a tank, a support therein for the can adapted to be moved upwardly and downwardly, a washing device located within said tank and a shield movable with said support located within said tank and adapted to prevent any spattering of the water supplied to the washing device.

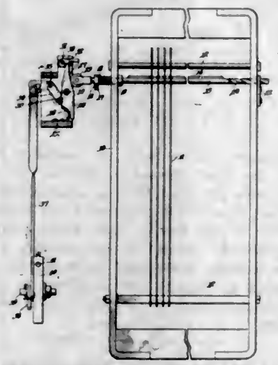
1,678,253. WARP STOP MOTION. HARRY E. KHOURY, New Bedford, Mass. Filed July 6, 1926. Serial No. 120,738. 12 Claims. (Cl. 139—364.)

1. In a warp stop motion for looms, the combination with a heddle frame having a series of heddles supported by warp threads, a rockable bar mounted in the heddle frame, the heddles being formed to engage and lock the bar against movement when one of the warp threads breaks, of means on the loom adapted to rock the bar as the heddle frame moves, said means comprising a bracket, a member pivotally mounted about a horizontal axis on said bracket but yieldingly held against movement, said member being movable by the bar when locked as the heddle frame moves, a continuously moving element on the loom lay, and means having a link connection with



said member and the loom shipper lever and adapted to be moved into the path of said continuously moving element only when said bar is locked and moves said member.

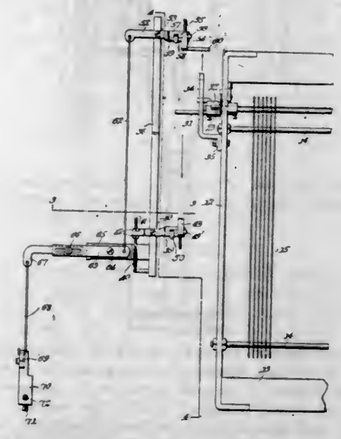
1,678,254. WARP STOP MOTION. HARRY E. KHOURY, New Bedford, Mass. Filed July 6, 1926. Serial No. 120,739. 13 Claims. (Cl. 139—364.)



1. In a warp stop motion for looms, the combination with a heddle frame and a series of heddles adapted to be supported therein by the warp threads, of a rockable longitudinally movable bar mounted in the heddle frame, the heddles having the bar associated therewith and being adapted to engage and lock the bar against movement when one of the warp threads breaks, means on the loom separate from the bar adapted to rock and longitudinally move the bar as the heddle frame moves, and power actuated means to stop the loom, said stop means being maintained inoperative as long as the bar is free to move under the influence of said actuating means.

1,678,255. WARP STOP MOTION. HARRY E. KHOURY, New Bedford, Mass., assignor to Khoury Warp Stop Motion, Inc., a Corporation of Massachusetts. Filed Sept. 21, 1926. Serial No. 136,832. 19 Claims. (Cl. 139—364.)

1. In a warp stop motion for looms, the combination with a heddle frame having a series of heddles supported by warp threads, of a movable detector bar mounted in the heddle frame, the heddles being formed to engage and lock the bar against movement when a warp thread breaks, and means adapted to give the bar a detecting movement as the heddle frame moves and effective to stop the loom when the bar is locked against movement, said means

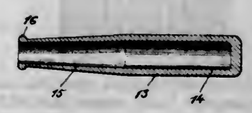


comprising a bracket positioned upon the loom frame, an element on said bracket adapted to impart a detecting movement to the bar, a yielding element movable through the bar when the latter is locked, and means mounted for movement with the heddle frame and movable with the detector bar serving to engage said yielding member only when the detector bar is locked.

1,678,256. PROCESS OF MANUFACTURING WHITE ACETATE OF LEAD SOLUTIONS OR CRYSTALS OUT OF PYROLIGNEOUS ACID. MAX KLAR, Holzminden, Germany. Filed Dec. 22, 1925, Serial No. 77,095, and in Germany Oct. 28, 1924. 2 Claims. (Cl. 260—11.)

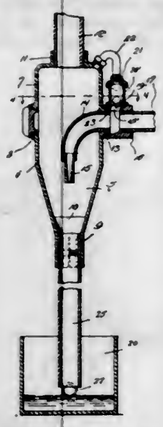
1. The process of obtaining white lead acetate from pyroligneous acid containing organic coloring impurities by neutralizing the said pyroligneous acid with lead or lead compounds, producing from the said solution lead acetate in solid form, heating the said solid lead acetate to temperatures between 200–220° centigrade at which temperatures the organic coloring impurities become insoluble in water but below the decomposition temperature of lead acetate, lixiviating the said lead acetate with water and filtering, evaporating and crystallizing the same.

1,678,257. BLASTING-CAP PROTECTOR. GEORGE A. LIVERMORE, Joplin, Mo., assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Jan. 19, 1927. Serial No. 162,172. 2 Claims. (Cl. 102—9.)



1. A protector for blasting fuses comprising a deep, cup-shaped member of soft-rubber composition, whose aperture tapers to a reduced diameter at the mouth end, the walls surrounding said tapering portion of the aperture also tapering to a reduced thickness toward the mouth end.

1,678,258. HYDRAULIC VACUUM CLEANING DEVICE. CLAYTON F. MACDONALD, Asheville, N. C. Filed Nov. 4, 1926. Serial No. 146,220. 6 Claims. (Cl. 230—92.)

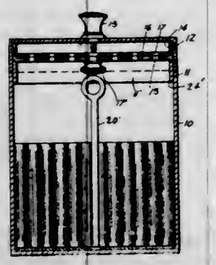


1. In a vacuum cleaning device of the character described, a vacuum chamber having a suction inlet at one end, and a pair of exhaust pipes at its opposite end, a double jet nozzle arranged within the vacuum chamber each of said nozzles being centered above the respective exhaust pipes of the vacuum chamber, a common fluid pressure inlet for said jet nozzle, and means automatically operable for introducing a charge of the fluid into the chamber above the nozzle during low pressures of the fluid, said means being inoperative when the pressure of the fluid reaches a predetermined degree.

1,678,259. PROCESS OF CONCENTRATING MIXED-SULPHIDE ORES. HAROLD S. MARTIN, Garfield, Utah. Filed June 30, 1927. Serial No. 202,744. 4 Claims. (Cl. 209—167.)

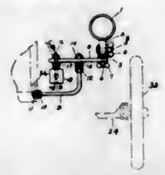
1. The method of effecting the selective froth flotation of copper sulphides from ores containing iron sulphides, which comprises rendering the ore pulp alkaline, adding a substance capable of liberating sulphite radicle and hydrogen ions under the conditions obtaining in the flotation process, and subjecting the resulting pulp to a flotation operation.

1,678,260. HUMIDOR. NATALE MARTINO, PHILIP FRASCA, and JOHN E. OSTER, New York, N. Y. Filed July 13, 1927. Serial No. 205,360. 4 Claims. (Cl. 131—30.)



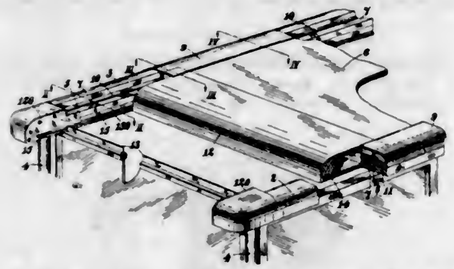
1. A humidifier comprising an open top casing, a perforated tray supported in the upper part of the casing, a plate rotatably movable on the tray bottom and having holes arranged to be brought into or out of registry with the perforations of the tray, complementary abutments on said plate and casing cover to limit the movement of the plate and a cover fitting over the tray and against the upper part of the casing in a manner to break joints with the tray.

1,678,261. SIDE LIGHT. ARTHUR J. MARSHALL, Dalton, Mass., assignor of one-fourth to Edward T. Heaphy, Lee, Mass., and one-fourth to William A. Heaphy, Pittsfield, Mass. Filed July 23, 1927. Serial No. 208,031. 4 Claims. (Cl. 240—62.)



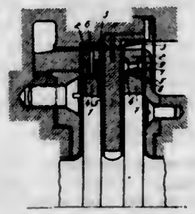
2. The combination of an adjustable side light mounted on a cross arm, the cross arm pivotally connected to a bracket arm adapted to be secured to the chassis of an automobile, a connecting rod block pivotally connected to the cross arm, a connecting rod rigidly attached to the connecting rod block and pivotally connected to the steering rod of an automobile, means to absorb shock and vibration on the said cross arm and side light.

1,678,262. ROOF FOR CLOSED VEHICLE BODIES. REGINALD WALTER MAUDSLAY, Coventry, England. Filed Aug. 10, 1926, Serial No. 128,425, and in Great Britain Mar. 27, 1926. 3 Claims. (Cl. 296—137.)



1. In a closed vehicle body, the combination of a roof, an aperture in front thereof, a stepped rail at each side of said aperture provided with a longitudinal slot in the upper vertical face of the step, said rail extending to the extreme front of the roof, a rigid hatch adapted to slide on said steps and when in one position to close said aperture, a member interposed between the rail and the hatch adapted to engage the longitudinal slot and embrace the lateral edges of the hatch and cover the joint therebetween.

1,678,263. RUNNER BLADE FOR STEAM TURBINES. GUSTAV MENZ, Berlin-Charlottenburg, Germany, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin-Siemensstadt, Germany, a Corporation of Germany. Filed Feb. 12, 1927, Serial No. 167,741, and in Germany Feb. 17, 1926. 3 Claims. (Cl. 253—77.)



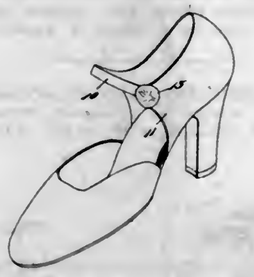
1. In a rotor for steam turbines, the combination of a runner, a blade ring mounted on the periphery of said runner, runner blades integral with said blade ring, at least one retaining ring for said blade ring, there being an annular recess extending over a portion of the blade ring and of the runner for receiving said retaining ring, and means for pressing said ring against the blade ring and the runner to hold the former in place, whereby the transmission of streases between the runner and the blade ring is prevented.

1,678,264. SLIDE BUCKLE. ROSWELL A. MOORE and JEROME R. LA VIGNE, Waterbury, Conn., assignors to Waterbury Buckle Co., Waterbury, Conn., a Corporation. Filed Feb. 21, 1928. Serial No. 255,908. 1 Claim. (Cl. 24—169.)



A one-piece slide buckle, consisting of a single piece of metal of relatively narrow width as compared with its length, having parallel side-bars, parallel end-bars, a center-bar joining the end-bars, narrow threading-slots located between the inner edges of the side-bars and the outer edges of the center-bar, and a plurality of gripping-fingers struck out of the main portion of the center-bar, and two inwardly-turned gripping-fingers struck out of the respective ends of the center-bar and extending inwardly at a right angle to the gripping-fingers before mentioned, the said fingers being adapted to receive under them the selvage edges and the cut edge of the fixed end of the webbing, upon which they are closed to grip the same.

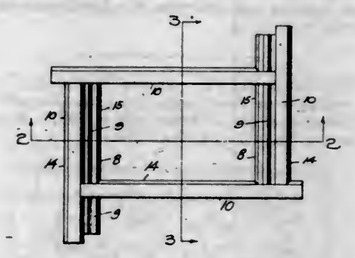
1,678,265. BUTTON COVER. WILLIAM L. MYERS, Newark, and GEORGE D. HARRISON, Belleville, N. J., assignors to L. A. Myers, Jr., Inc., Newark, N. J., a Corporation of New Jersey. Filed Feb. 29, 1928. Serial No. 257,893. 6 Claims. (Cl. 24—113.)



1. A button cover for shoe straps, comprising an ornamental cover member having a cross bar on its back between which and the cover the strap is threaded, and means carried by said cover for releasably retaining the same in adjusted position over the button.

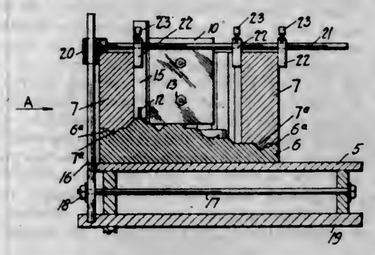
1,678,266. METHOD AND MEANS FOR MAKING MOLDS FOR BUILDING BLOCKS AND THE LIKE. ERNEST S. NIESTRADT, Denver, Colo., assignor to The Northwestern Terra Cotta Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 28, 1926. Serial No. 138,233. 9 Claims. (Cl. 25—121.)

7. In apparatus for making a mold for building blocks and the like, the combination with a base-member of the mold and opposite side-members of the same, of means for closing an end of the mold, and a partition spaced from



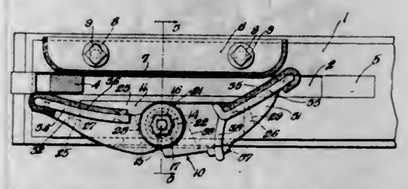
said end and composed of a middle section and outer sections slidably connected with the middle section and engaging the side-members of the mold.

1,678,267. APPARATUS FOR MAKING MOLDS FOR BUILDING BLOCKS. EARNEST S. NIESTRADT, Denver, Colo., assignor to The Northwestern Terra Cotta Company, Chicago, Ill., a Corporation of Illinois. Filed June 14, 1927. Serial No. 198,723. 6 Claims. (Cl. 25—121.)



4. A holding appliance for mold members comprising in combination with a support for the mold, a standard on the support, a laterally projecting arm slidable on the support, sliding stops on the arm for engagement with members of a mold on the support, and set screws to secure the stops in adjusted positions.

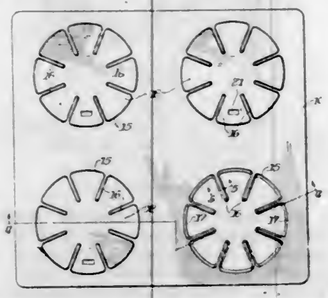
1,678,268. PICKER-STICK-CONTROLLING MEANS FOR LOOMS. JONAS NORTHROP, Hopedale, Mass., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 24, 1925. Serial No. 17,880. 3 Claims. (Cl. 139—164.)



1. Picker stick controlling means for looms having, in combination, a lay provided with a picker stick slot, a picker stick, a picker stick check lever pivoted on the lay upon a vertical axis and having two arms each provided with large friction surfaces for engagement with the picker stick extended in opposite directions therefrom at different angles to the picker stick, the inner arm offering greater checking resistance to the picker stick than the outer arm, the pivot being positioned so that either the one or the other arm of the lever overlaps the picker stick slot, a pivot upon which the lever is mounted, friction material interposed between the surface of the lever and

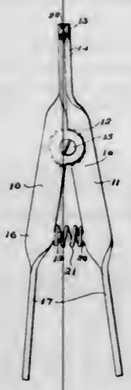
the surface of the pivot, and a spring, spring follower and nut for increasing and decreasing the pressure on the spring to increase and decrease the frictional resistance of the lever to turning.

1,678,269. COOK STOVE. GEORGE E. PICKUP, Newark, Ohio, assignor to The Wehrle Company, Newark, Ohio, a Corporation of Ohio. Filed July 8, 1927. Serial No. 204,163. 1 Claim. (Cl. 126—214.)



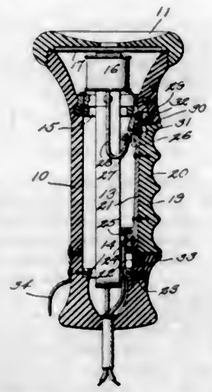
A stove top comprising, in combination, a plate having a circular burner opening therein, a plurality of ribs formed integral with the plate and extending radially into said opening, said ribs being equidistantly spaced apart and terminating short of the axial center of the opening, and a cover plate for said opening having a plurality of radially disposed slots having their outer ends terminating in the periphery of the cover plate, said cover plate being adapted to fit into said opening with its upper surface flush with the upper surface of the top plate and with said ribs entered in said slots, said ribs and slots being of greater width at their lower edges than at their upper edges whereby the ribs are adapted to engage and support the plate throughout the length of the ribs.

1,678,270. PIN-HOLDING TOOL. FLOYD F. PROSCH, McPherson, Kans., assignor of one-half to Ruben L. Walline, McPherson, Kans. Filed Aug. 2, 1926. Serial No. 126,456. 1 Claim. (Cl. 81—5.1.)



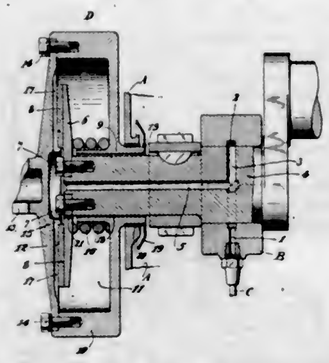
Pliers for placing and removing pins and the like consisting of two levers of sheet metal each including a handle and an intermediate portion in one straight piece, the latter having a nib and an ear longitudinally spaced from the nib, the nib and ear projecting from one edge of the lever, and a jaw portion extended longitudinally from the intermediate portion opposite the handle, said jaw having a terminal lateral extension in a plane with and at right angles to the jaw and formed with a groove across one side on a line longitudinally of the device; said ears being overlapped and pivotally connected, said nibs being presented inward in opposed relation, a helical spring seated at its ends around the nibs and against the levers, said jaws having a twist both in the same direction a quarter turn adjacent the intermediate portion and disposed to meet in close parallel relation with said grip extensions alined, the said grooves being alined and opposed to jointly receive a pin.

1,678,271. TELEPHONE RECEIVER. ALBERT JOE ROBERTS, Warren, Ohio. Filed July 29, 1927. Serial No. 209,300. 2 Claims. (Cl. 179—167.)



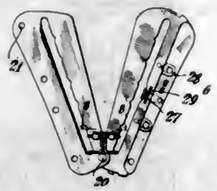
1. In a telephone receiving instrument, an insulated shell having a slot therein, a finger piece mounted for movement in said slot, a conductor plate carried by and movable with the finger piece and adapted for connection in a receiving circuit, a contact carried by the plate, a contact carried by and located in the shell and also adapted to be connected in the receiving circuit, said shell carried contact being normally spaced from and adapted to be engaged by the plate carried contact to close the circuit when the finger piece is moved inward and spaced shell carried stops located upon opposite sides of the finger piece to limit its movement in opposite directions.

1,678,272. LUBRICATING AND OIL-SEPARATOR APPARATUS. SAMUEL W. RUSHMORE, Plainfield, N. J. Filed Dec. 29, 1925. Serial No. 78,167. 9 Claims. (Cl. 184—6.)



1. In a motor having a plurality of cylinders, a crank case, a crank shaft, and bearings for the shaft, a vibration damper comprising a disc element rigidly mounted on one end of said shaft, a hollow flywheel element housing the disc and frictionally coupled therewith, in combination with a pump drawing oil from the crank case and force-feeding it through a plurality of parallel connected conduits, to the several bearings and, through one of the bearings, to a supply duct in said shaft discharging into the interior between said flywheel element and said disk and an outlet near the axis of the latter, through which the oil flows back into the crank case.

1,678,273. FASTENING DEVICE FOR SHOES. KONRAD SCHUTZ, Brooklyn, N. Y. Filed Oct. 18, 1927. Serial No. 226,863. 1 Claim. (Cl. 24—207.)



A fastening device for shoes consisting of two metallic strips hinged at one extremity, said strips having longitudinal slots, a clamping member slidable in said slots to draw the plates together when the clamping member is moved into a position opposite the hinge, and means to fix the plates to the flaps of a shoe, one of said plates being formed in two parts and provided with means for selectively adjusting the width of the plates.

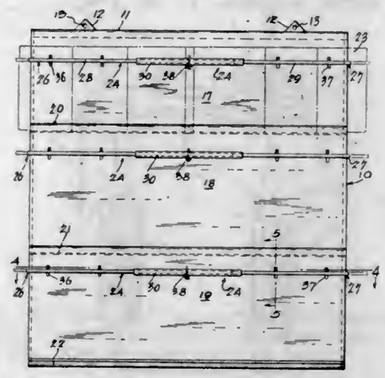
1,678,274. STRENGTHENING DEVICE FOR SHOES. KONRAD SCHUTZ, Brooklyn, N. Y. Filed Oct. 18, 1927. Serial No. 226,864. 3 Claims. (Cl. 36—58.6.)



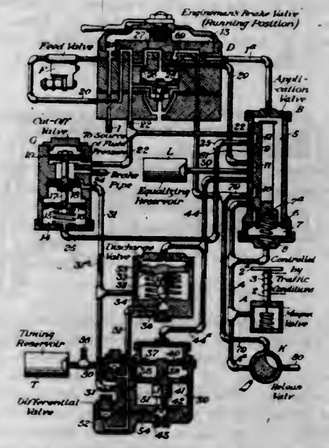
1. A strengthening device for the heel portions of shoes, comprising two arcuate metal strips hinged to each other, one of said strips being adapted to embrace the outside of the shoe, and the other strip having a pad fixed to its inner side, and hooks to engage the leather of said shoe and the first mentioned strip.

1,678,275. SECTIONAL MAGAZINE RACK. HENRY SPEARMAN, San Mateo, Calif. Filed Dec. 16, 1927. Serial No. 240,445. 4 Claims. (Cl. 211—55.)

1. A device of the class described, comprising a sheet metal rack section embodying a plurality of superposed panels, each provided with article supporting channels, supported ears formed on the upper of said panels and providing means for suspending the rack from an upright support, retaining members consisting of a pair of elements slidably mounted upon said panels and adapted to retain the upper ends of the supported articles, said retaining members bearing sleeves adapted to allow of lateral movement of the elements thereof relative to each other to increase their capacity, and means coacting therewith to limit their lateral movement and to prevent their complete separation.

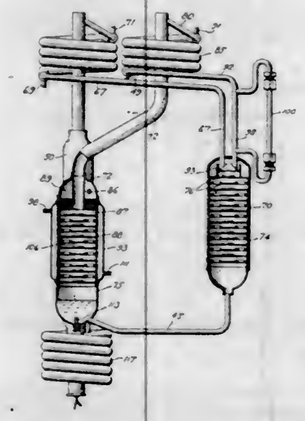


1,678,276. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. CLARENCE W. SPROULL, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Nov. 18, 1926. Serial No. 149,083. 17 Claims. (Cl. 303—18.)



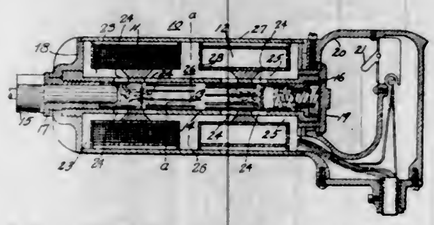
2. Automatic brake applying apparatus on a train comprising a brake pipe initially charged with fluid pressure and arranged to apply the brakes when the pressure in such pipe is reduced, a cylinder containing a reciprocable piston, a spring constantly bearing against one side of the piston, means for at times exposing one side of the piston to the pressure in the pipe and for exposing the other side of the piston to the pressure to which the pipe was initially charged, and a valve controlled by said piston for reducing the pressure in the pipe until the combined force exerted on one side of the piston by the spring and the pressure in the pipe is less than the force exerted on the other side of the piston by said initial pressure.

1,678,277. REFRIGERATION. BALTZAR CARL VON PLATEN and CARL GEORG MUNTERS, Stockholm, Sweden, assignors to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 7, 1928. Serial No. 245,204. 16 Claims. (Cl. 62—178.)



1. Refrigerating apparatus comprising a generator, a condenser, an evaporator and an absorber forming a circuit for a cooling agent and a second circuit for an auxiliary agent comprising said evaporator, said absorber and a second condenser through which the auxiliary agent passes from the absorber to the evaporator.

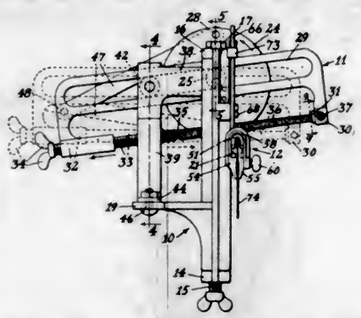
1,678,278. RECIPROCATING ELECTRIC MOTOR. CARL S. WEYANDT, Pittsburgh, Pa., assignor to Central Electric Tool Company, a Corporation of Pennsylvania. Filed May 2, 1924. Serial No. 710,501. 24 Claims. (Cl. 172—126.)



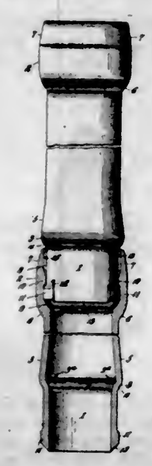
2. In a reciprocating motor the combination with two solenoids adapted to be alternately energized and a movable member to be reciprocated by the solenoids in response to such energization, of a laminated structure for the solenoids to conduct the magnetic fluxes developed thereby to zones of concentration to influence the movable member, said structure comprising a laminated section constituting a common path of conduction which the fluxes developed by the solenoids traverse in opposite directions.

1,678,279. SAW-FILING MACHINE. BENJAMIN A. BRANCH and GEORGE SCHNURR, Long Beach, Calif. Filed Feb. 15, 1927. Serial No. 168,377. 1 Claim. (Cl. 76—35.)

In a saw filing device of the character described, the combination, with the main frame, horizontal saw-carrying frame, and reciprocatory file-carrying frame; of angularly adjustable guiding means for said file-carrying frame, said adjustable guiding means comprising a vertical sleeve, a bolt within said sleeve to pivotally secure it to said main frame, a radial pin fixed in one side of said sleeve, rotary means mounted on said radial pin and operatively connected with said file-carrying frame to reciprocate the latter, a lateral extension projecting from the upper portion of said sleeve, a vertical leg with which said extension is provided, and adjustable securing means at the lower end of said leg to provide for an arcuate adjustment of said leg with relation to said sleeve, there being two guides for the file-carrying frame which are in fixed relation to said leg and sleeve, one of said guides being located adjacent to said sleeve, and the other of said guides, being on said extension of said sleeve in spaced relation to the latter.

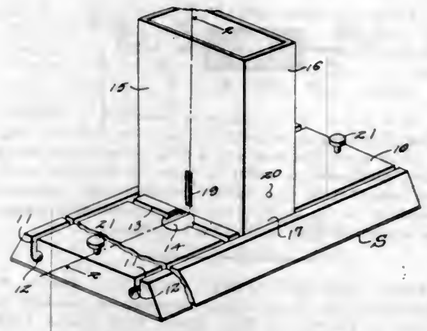


1,678,280. WELL CASING. HARRY Y. CARSON, Birmingham, Ala., assignor to American Cast Iron Pipe Company, Birmingham, Ala., a Corporation. Original application filed Aug. 18, 1922, Serial No. 582,725. Divided and this application filed Jan. 14, 1925. Serial No. 2,331. 4 Claims. (Cl. 166—4.)



1. A well casing composed of pipe sections each having a bell and spigot end, said bell being of greater diameter than the pipe section, a circumferential enlargement of slightly less diameter than the bell formed on the spigot in spaced relation to the end thereof and having its outer surface rounded and merged into the spigot, said enlargement being so spaced from the end of the spigot that when the bell and spigot are connected the enlargement is caused to overhang the bell end; each pipe section being gradually tapered in opposite directions at both ends of the bell and likewise gradually tapered from the enlargement toward the bell, so that the outer surfaces of the bell and enlargement are practically continuous when the spigot is fitted within the bell.

1,678,281. MATCH-DISPENSING DEVICE. EATON COLE, Eureka Springs, Ark. Filed Dec. 17, 1927. Serial No. 240,832. 4 Claims. (Cl. 312—77.)



1. In a match safe and in combination, a base having parallel slots, an open-bottomed receptacle seated upon the upper surface of the base and having portions extending into said slots and having engagement therewith preventing vertical movement of the receptacle with relation to the base while permitting reciprocatory motion thereof longitudinally of the base, said base having a groove extending transversely with respect to said slots and of a depth to receive a single match.

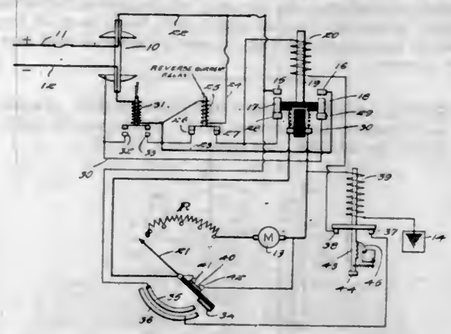
1,678,282. ARTICLE HOLDER. CHARLES N. CORYELL, New York, N. Y. Filed Dec. 23, 1926. Serial No. 156,618. 18 Claims. (Cl. 206—56.)



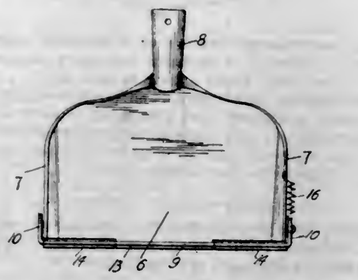
16. In a lip stick holder, a tubular body, a lip stick carrier slidable in the body, a closure for the top of the body, and means operable through the bottom of the body and connected to the carrier and to the closure for operating the carrier both toward and away from the bottom of the body.

1,678,283. PROTECTIVE DEVICE FOR ELECTRICALLY-OPERATED MIXING MACHINES AND THE LIKE. JAMES E. DILLON, Masontown, Pa. Filed Feb. 12, 1927. Serial No. 167,803. 4 Claims. (Cl. 191—8.)

1. In a safety system for electrical motor operated machines the frames of which are not permanently connected to the negative side of a grounded circuit, a normally open circuit for the motor including a rheostat, positive and negative feed wires for the motor circuit, a reel upon which the feed wires are wound, a control circuit including means for closing the motor circuit operative only when the rheostat controller arm is in "on" position, parallel connections between the negative side of the motor circuit and the reel frame, one of which is nominally open and the other of which is nominally closed, said means when the motor circuit is open closing the open connection and means opening the other of the connections when the motor circuit is closed.

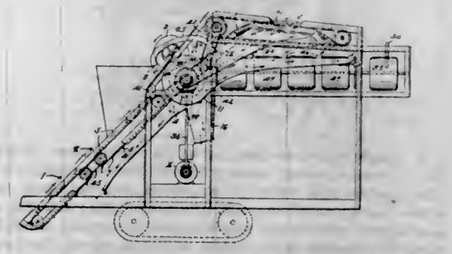


1,678,284. DUSTPAN. FERDINAND DUHSEL, Denver, Colo. Filed July 12, 1927. Serial No. 205,218. 4 Claims. (Cl. 65—20.)



1. The combination with a dust pan having a bottom and rim portions at opposite ends of the forward edge thereof, of a lid hinged at said edge and adapted to close the space between the rim portions, and a spring holding the lid in its normal closed position, the lid having downwardly ranging projections adapted to open the lid by contact with a surface over which the pan is moved.

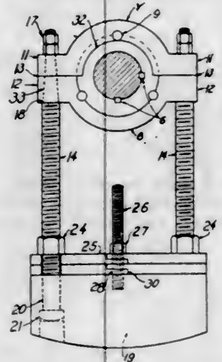
1,678,285. CANE-HARVESTING MACHINE. RALPH SADLEIR FALKINER, Melbourne, Victoria, Australia. Filed Apr. 7, 1927, Serial No. 181,840, and in Australia Sept. 20, 1926. 17 Claims. (Cl. 56—17.)



17. In a cane harvesting machine employing superposed throwing rollers, a travelling hood formed of a slatted belt, a series of pairs of discharge rollers beneath the hood, fans or blowers for supplying air blast rollers, the provision of a trash removing elevator provided with

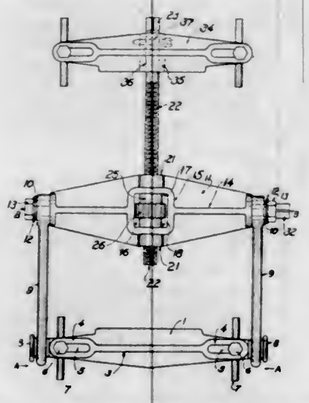
rakes and feeding the throwing rollers, air jets at front and back of the upper throwing roller receiving air from said fans or blowers, a grooved rotary trash discharge roller in contact with the rear of the lower throwing roller, a suction chamber within the hood, open at the bottom and connected with the suction sides of said fans or blowers.

1,678,286. BAND-WHEEL COUNTERWEIGHT. GEORGE E. FENTRESS, Los Angeles, Calif. Filed June 24, 1927. Serial No. 201,153. 2 Claims. (Cl. 74—71.)



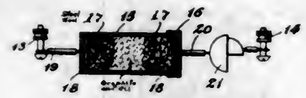
2. A counterweight for use on a rotatable shaft, comprising: a journal of diameter materially greater than that of the shaft, firmly affixed to said shaft; a bearing box surrounding said journal and freely rotatable thereon; readily removable taper pins fitted between said journal and said box and adapted to prevent relative movement therebetween, and a weight depending from and rigidly attached to said bearing box.

1,678,287. BELT TIGHTENER. GEORGE E. FENTRESS, Los Angeles, Calif. Filed Aug. 23, 1927. Serial No. 214,865. 5 Claims. (Cl. 254—54.)



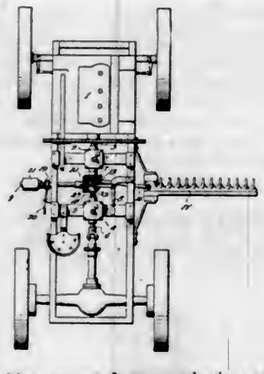
1. A belt tightener comprising, in combination: a rigid bar; a temper screw passing slidably through said bar on the shorter axis thereof; a geared nut engaging said screw and mounted thereon within said bar; a worm engaging said geared nut and attached to a shaft rotatably mounted on said bar; a hand operated means for rotating said shaft; a clamp for attachment to one end of a belt; means for detachably fixing one end of said temper screw in said clamp; a second clamp for attachment to the opposite end of said belt, and hook means for connecting said second clamp to said rigid bar.

1,678,288. ACCESSORY FOR RADIO SIGNAL RECEIVERS. SAMUEL N. FLEMING, Hopkinsville, Ky. Filed Sept. 2, 1927. Serial No. 217,199. 2 Claims. (Cl. 250—20.)



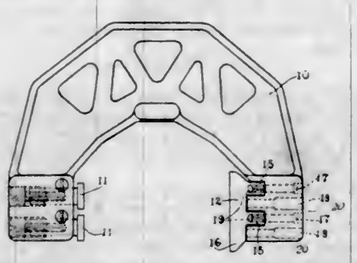
1. In a device of the character described, a container formed of insulating material having a content of a mixture of an insulating fluid and a mass of extremely finely divided conductive material, a mass of wool-like metal fibers embedded in the mixture at each side connected respectively to the antenna and the receiver, said masses being separated from each other a distance.

1,678,289. VARIABLE-SPEED GEARING. ANTON V. HARTMANN, St. Paul, Minn., assignor of one-half to Victor H. Stevens, St. Paul, Minn. Filed Mar. 8, 1927. Serial No. 173,705. 1 Claim. (Cl. 74—7.)



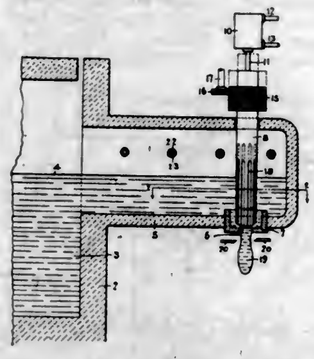
In a machine mounted upon wheels and including a motor and drive shaft, separate and independent transmissions in the length of the drive shaft, a gear wheel loose on the drive shaft, a clutch member for connecting the loose gear wheel to the drive shaft, other shafts geared to the said loose gear wheel, a pulley loose on one of the last mentioned shafts, a clutch member for connecting the pulley to its shaft, and an operating mechanism detachably connected with the other one of the last mentioned shafts.

1,678,290. ADJUSTABLE SNAP GAUGE. FRANK O. HOAGLAND, Bridgeport, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 14, 1926. Serial No. 141,659. 6 Claims. (Cl. 33—163.)



1. A snap gauge comprising in combination, a gauge frame, a pair of parallel adjustable anvils within said frame, an anvil plate opposed to said anvils, projections on said anvil plate, projections on said frame, and means to secure said anvil plate to said frame by said projections upon or between said projections on the frame.

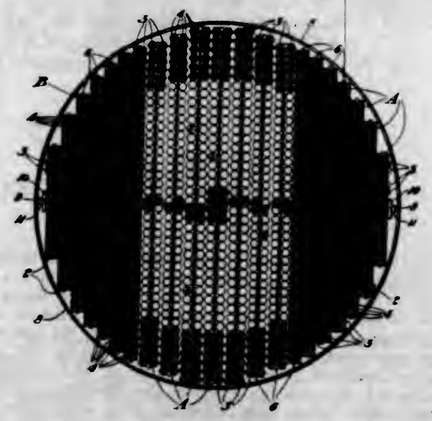
1,678,291. METHOD AND APPARATUS FOR FEEDING MOLTEN GLASS. GEORGE E. HOWARD, Butler, Pa., assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Dec. 4, 1922. Serial No. 604,785. 20 Claims. (Cl. 49—55.)



1. Apparatus for producing mold charges of molten glass comprising a container for the glass having a discharge outlet and a rotatable flow-controlling member disposed in line with said outlet, said flow-controlling member having a corrugated surface immersed in the glass.

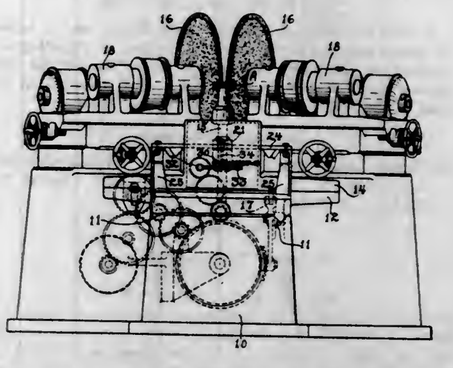
20. In glass feeding apparatus, two cooperative flow regulating members, one comprising a container for molten glass having a submerged discharge aperture and the other comprising an implement extending into the glass substantially in axial alignment with said aperture, one of said flow regulating members having non-spiral projections extending into the glass around the axial line of the outlet, and means for rotating one of said flow regulating members about the axial line of the outlet.

1,678,292. CABLE. JAMES FORREST HOWE, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Jan. 22, 1925. Serial No. 4,044. 2 Claims. (Cl. 28—1.)



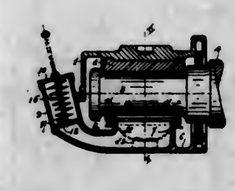
1. A large bridge cable having a substantially circular cross section and composed of a plurality of flat ropes, laid one on top of the other, the center rope of the cable being of a width substantially equal to the diameter of the cable and each of the successive ropes on either side of the center rope being of less width than the preceding rope, and suitable seizing arranged at spaced intervals along said cable for securing said ropes together.

1,678,293. GEAR GRINDER. CARROLL KNOWLES, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 3, 1924. Serial No. 753,651. 6 Claims. (Cl. 61—52.)



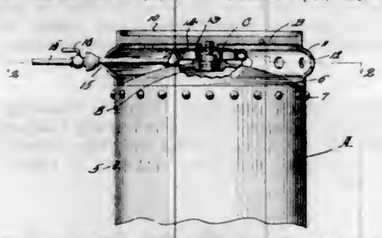
1. A gear grinding machine comprising in combination, a base, a rotatable grinding wheel thereon, a work supporting spindle, means to reciprocate the spindle past the wheel, an abutment fixed during operation having a plane surface thereon, a plate mounted on said spindle and having a curved surface adapted to contact with the plane surface on said abutment, whereby reciprocation of the spindle simulates a rolling motion of a gear blank thereon, and means to radially withdraw the blank from the wheel during operation and while the abutment remains in contact with the plate to permit indexing.

1,678,294. LUBRICATING DEVICE FOR AXLE BOXES. IGNACE MACWAY, Brussels, Belgium. Filed Sept. 9, 1926, Serial No. 134,543, and in Belgium Sept. 23, 1925. 3 Claims. (Cl. 308—79.)



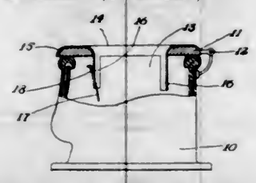
1. In an axle box, in combination with an axle journal rotating within said axle box, a bearing bush through which the axle box is supported by the upper part of the periphery of the axle journal, a grease cup arranged in the lower part of the axle box under the axle journal, a spring pressed packing surrounding freely the said grease cup, and contacting with the axle journal, whereby the said packing is adapted to move up and down along the grease cup and is adapted to follow the movements of the journal, a grease vessel, a channel whereby the grease vessel is connected to the grease cup and means whereby the grease contained in the grease vessel is fed to the grease cup and to the lower part of the periphery of the axle journal.

1,678,295. SUPPORTING IRON PLATE FOR BOILERS. SPIROS C. MARKATOS, New York, N. Y. Filed Oct. 6, 1926. Serial No. 139,921. 11 Claims. (Cl. 126—230.)



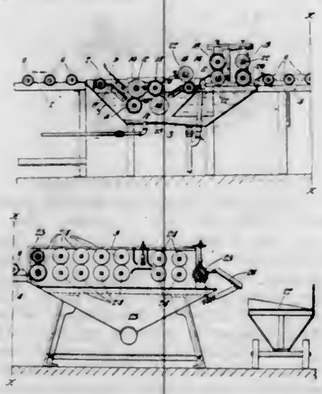
1. The combination with an iron holder and a boiler, of means for supporting the iron holder in superimposed relation to the boiler to conserve space and utilize heat arising from the boiler including a stud mounted in the wall of the boiler and secured to the iron holder.

1,678,296. SANITARY SEAT COVER. ADOLF MUELLER, New York, N. Y. Filed Dec. 30, 1927. Serial No. 243,526. 2 Claims. (Cl. 4—243.)



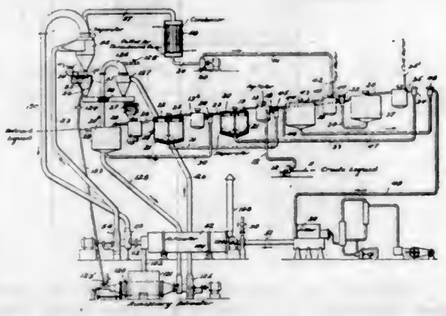
1. An article of the class described comprising a member adapted to cover the upper surface of a commode seat, said member being curved at the periphery to conform to the curvature of the edges of the seat, said member having a central opening adapted to register with the opening in the seat, the periphery of the opening in the member being curved to conform to the curvature of the seat opening, walls hanging from said member through the opening into the commode, and adjustable means in one of said walls for varying depth of said wall.

1,678,297. METHOD OF CLEANING TIN PLATE. THOMAS O'BRIEN, Sharon, and RUFUS E. ZIMMERMAN, Pittsburgh, Pa., assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 10, 1926. Serial No. 87,325. 6 Claims. (Cl. 51—18.)



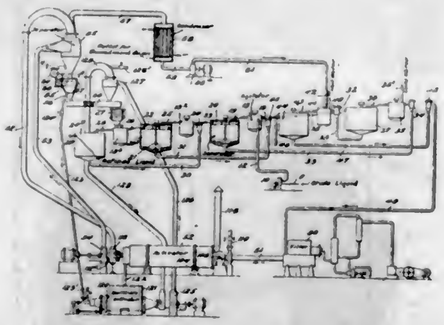
4. The method of cleaning oil having a recoverable value from tin plates after tinning, which consists in scrubbing both sides of said plates in a non-inflammable liquid from which the oil may be readily recovered to remove said oil and other matter therefrom, then subjecting both sides of said plates to a combined squeezing and rubbing action to remove the liquid with said oil from said plates, and then passing said plates through a body of cereal product to finally remove any remaining oil and any remaining moisture from said plates.

1,678,298. PROCESS FOR REFINING OILS AND WAXES. WALTER ALBERT PATRICK, Mount Washington, and ERNEST BALDWIN MILLER, Baltimore, Md., assignors to The Silica Gel Corporation, Baltimore, Md., a Corporation of Maryland. Filed Mar. 16, 1922. Serial No. 544,186. 11 Claims. (Cl. 196—147.)



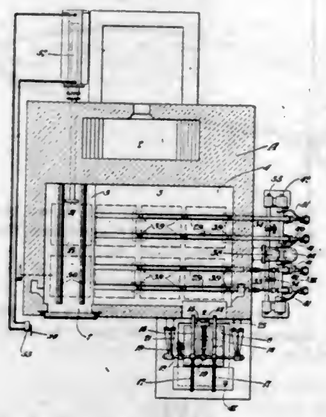
1. In the process of refining oils, the step consisting in treating the oil with a solid absorbent material having pores of such size that it will absorb water vapor to such an extent as to contain not less than about 10% of its own weight of water when in equilibrium with water vapor at 30° C. and a partial pressure of substantially 22 mm. of mercury.

1,678,299. APPARATUS FOR TREATING LIQUIDS TO REMOVE OR RECOVER SUBSTANCES THEREFROM. ERNEST B. MILLER, Baltimore, Md., assignor to The Silica Gel Corporation, Baltimore, Md., a Corporation of Maryland. Filed June 6, 1922. Serial No. 566,365. 13 Claims. (Cl. 196—147.)



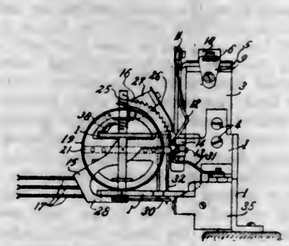
1. In a cyclic apparatus for refining liquids, in combination, an agitating device adapted to contain a hard porous adsorbent material, means to supply liquid to be refined to said device, a separator connected to said agitating device wherein the liquid and the material are separated, an activator, means to convey the separated material from said separator to said activator, a second separator to separate the adsorbing material and vapors after their discharge from said activator, and means to return the activated material from said last mentioned separating means to said agitating device.

1,678,300. SHEET-HEATING FURNACE. JOHN W. PERRY, Wheeling, W. Va. Filed May 20, 1927. Serial No. 193,014. 3 Claims. (Cl. 263—6.)



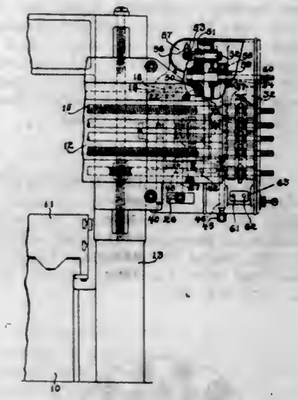
1. A heating furnace for sheets and plates, comprising a heating chamber, means for feeding at least two sheets transversely into said heating chamber in spaced relation, means for simultaneously feeding said sheets longitudinally of said heating chamber a distance equal to the width of said sheets with a step by step movement, said first named feeding means being adapted to be operated between each of the step movements of said second named means so as to feed other sheets into the path of said second named means and immediately back of the sheets previously fed into said chamber thereby forming two rows of sheets, and said second named means being adapted to feed said rows of sheets longitudinally of said chamber, a stacking floor in said chamber at a point below the main level of said heating chamber, said second named feeding means being adapted to feed the sheets of said rows of sheets successively onto said floor forming stacks, and mechanical means for feeding said stacks of sheets from said stacking floor.

1,678,301. SELECTING DEVICE FOR TELEPHONE SYSTEMS. PAUL QUASSOWSKI, Berlin, Germany, assignor to Siemens & Halske Aktiengesellschaft Wernerwerk, Siemensstadt, near Berlin, Germany. Filed Jan. 24, 1927, Serial No. 163,007, and in Germany Dec. 6, 1926. 6 Claims. (Cl. 179—27.5.)



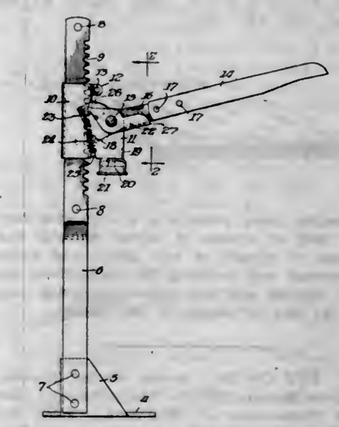
1. An automatic switch comprising stationary terminals, wipers successively movable in two different planes to engage said terminals, two separate pawls for executing said movements, an electromagnet having an armature for controlling said pawls, one of said pawls being effective upon attraction of said armature and the other pawl being effective upon retraction of said armature.

1,678,302. MANUALLY-CONTROLLED FEEDING MECHANISM FOR PLANERS. CLIFFORD F. RANDOLPH, Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed July 11, 1925. Serial No. 43,022. 3 Claims. (Cl. 90—49.)



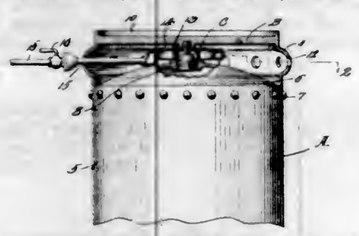
1. Feed mechanism for planers comprising in combination, a cross rail, a tool head movable thereon, a screw on said rail engaging said head, a motor, a shaft on said cross rail, two driving connections between said motor and shaft for rotating said shaft at two different speeds in the same direction, a pair of oppositely rotating gears driven from said shaft, pinions directly driven from said gears, a clutch splined to said screw and adapted to engage either of said pinions to rotate said screw in either direction, manual means to engage either of said driving connections for said shaft, an indicator for determining movement of said head, and means to connect and disconnect said indicator simultaneously with engagement with one or the other of said driving connections.

1,678,303. BOTTLE CAPPER. HAROLD G. RICE, Chicago, Ill. Filed May 2, 1925. Serial No. 27,378. 15 Claims. (Cl. 226—84.)



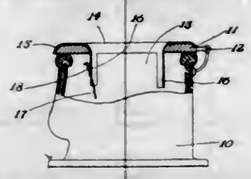
15. In a bottle capper, a frame having an upright rack, a rider freely slidable upon the frame, a capping member carried by the rider, a hand lever pivotally

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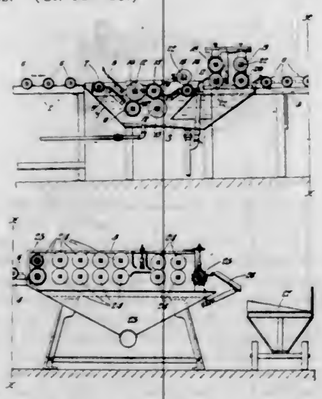
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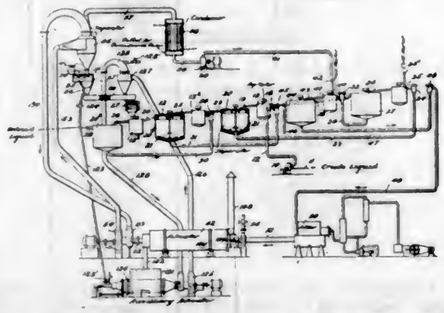
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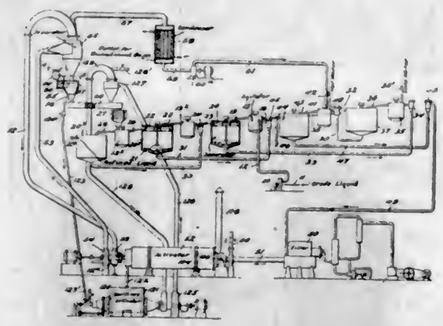
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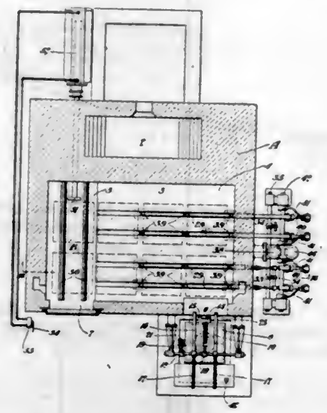
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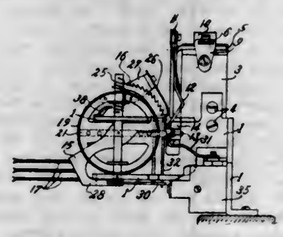
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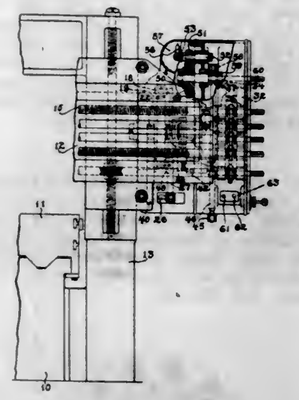
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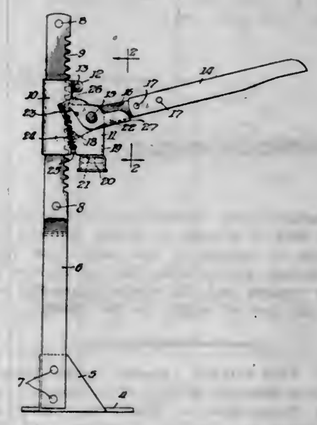
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1. Feed mechanism for planers comprising in combination, a cross rail, a tool head movable thereon, a screw on said rail engaging said head, a motor, a shaft on said cross rail, two driving connections between said motor and shaft for rotating said shaft at two different speeds in the same direction, a pair of oppositely rotating gears driven from said shaft, pinions directly driven from said gears, a clutch splined to said screw and adapted to engage either of said pinions to rotate said screw in either direction, manual means to engage either of said driving connections for said shaft, an indicator for determining movement of said head, and means to connect and disconnect said indicator simultaneously with engagement with one or the other of said driving connections.

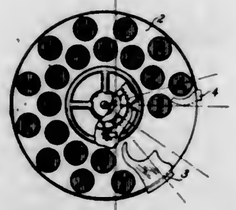
1,678,303. BOTTLE CAPPER. HAROLD G. RICE, Chicago, Ill. Filed May 2, 1925. Serial No. 27,378. 15 Claims. (Cl. 226—84.)



15. In a bottle capper, a frame having an upright rack, a rider freely slidable upon the frame, a capping member carried by the rider, a hand lever pivotally

mounted upon the rider, the lever being provided with a toothed segment in mesh with the rack to form a fulcrum engagement therewith, and a spring connected to the rider and associated with the lever to automatically swing the lever upwardly upon its fulcrum engagement with the rack from a depressed position when released by the operator and thereby move the rider and capping member upwardly upon the frame and hold the lever and the rider and the capping member elevated, said lever capable of being turned upwardly upon its pivotal mounting from the elevated position in which it is held by the spring to disengage the segment from the rack and thereby permit quick slidable adjustment of the rider along the frame.

1,678,304. AUTOMATIC TELEPHONE SYSTEM. RODNEY G. RICHARDSON, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Original application filed Oct. 23, 1920, Serial No. 418,894. Divided and this application filed Oct. 21, 1926. Serial No. 143,057. 4 Claims. (Cl. 179—90.)



1. In a calling device for automatic telephone systems, a dial having two rows of finger holds, the finger holds in one row being displaced angularly relative to the corresponding finger holds in the other row, and a finger stop having two positions, one for each row of finger holds, one of said positions being displaced relative to the other an angular distance equal to the displacement between corresponding finger holds in the two rows.

1,678,305. BRAKE LINING. EDWARD SLADE, New York, N. Y. Filed Dec. 7, 1922. Serial No. 605,524. 2 Claims. (Cl. 188—259.)



1. A friction lining comprising a laminated fabric including a weft of strands of fibrous material and wire and a warp of strands of wire alone, and staples extending through and securing the laminations together, the latter strands and the staples extending longitudinally of the line of strain on the lining.

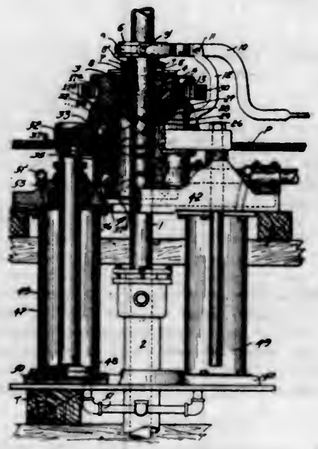
1,678,306. TUB COVER. MOWRY SMITH, Neenah, Wis., assignor to Menasha Wooden Ware Company, Menasha, Wis., a Corporation of Wisconsin. Filed July 29, 1926. Serial No. 125,728. 3 Claims. (Cl. 217—76.)

1. As a new article of manufacture, a top or cover for a pail, provided in its upper surface with a surrounding edge recess, and a band secured to the top or cover, having corrugations therein to permit said band to taper upwardly, the upper edge of said band being flanged inwardly, said flange being corrugated to prevent overlapping of portions thereof and fitting in the



recess in the cover, the depth of the recess being such that the surface of the inwardly extending flange will not be above the surface of the cover.

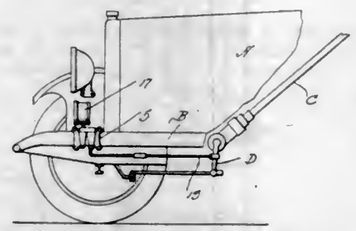
1,678,307. EARTH-BORING MACHINE. FREDERICK STONE, Spokane, Wash. Filed Jan. 12, 1924. Serial No. 685,744. 1 Claim. (Cl. 255—22.)



In well drilling apparatus of the character described, a non-rotatable horizontal table supported for vertical reciprocation and having an axial opening therethrough, an upstanding annular flange on the table about and annularly spaced from the axial opening, an anti-friction bearing seated on the table within the flange, a tubular, rotatable drill head adapted to take vertically extending work through its bore and to hold said work against relative rotation and vertical movement with respect thereto, said head embodying an upper portion of relatively large diameter, and a lower sleeve portion of relatively small diameter, there being a downwardly facing, annular shoulder formed at the junction of the portions, said upper portion being disposed within the upwardly opening socket defined at its bottom by said bearing and annularly defined by said flange, said shoulder engaging the bearing and the flange having radial bearing with said upper portions, said sleeve portion extending through the table bore to a point appreciably below the table, an upthrust bearing detachably held to the sleeve below the table and, in effect, coacting with the underside of the table to hold the head against upward movement with relation thereto, said up-thrust bearing being spaced above the lower end of the sleeve, and a depending annular flange on the underside of the table and annulary spaced from the sleeve portion, said depending flange extending downwardly about the up-thrust

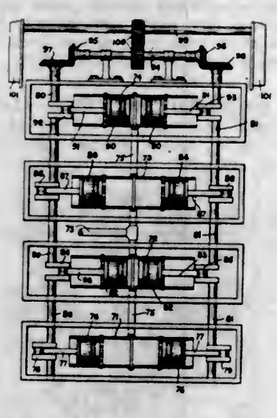
bearing and providing radial bearing for the sleeve portion at a point below said up-thrust bearing, said depending flange forming a housing about said upthrust bearing.

1,678,308. DIRIGIBLE HEADLIGHT FOR AUTOMOBILES. CHARLES R. STOULIL, Pocahontas, Iowa. Filed Sept. 19, 1927. Serial No. 220,427. 1 Claim. (Cl. 240—62.)



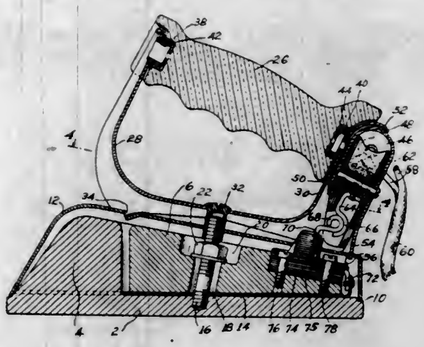
In a dirigible headlight for automobiles, a plate adapted to be rigidly secured in a vertical position on one side of the automobile frame, a pair of inverted conical shaped sleeves on the outer face of said plate and arranged in vertical position thereon, the respective ends of said sleeves being opened, a pair of conical shafts, said shafts being adapted to be supported within said sleeves and to depend at their lower ends below the lower ends of the sleeves, means on said depending ends of the shafts for preventing upwardly movement of the same within the sleeves, intermeshing gears at the upper ends of said shafts, a headlight carried by the upper end of one of the shafts, and a contact between the lower end of the other shaft and the usual steering mechanism of the automobile.

1,678,309. STEAM ENGINE. EVERETT W. SWARTWOUT, White Plains, N. Y. Filed Dec. 18, 1918. Serial No. 267,228. 7 Claims. (Cl. 121—125.)



6. The combination with a supply of a compressed medium, of a cylinder, a pair of pistons disposed in said cylinder in sealing relation with the interior of said cylinder, admission means leading to a substantially central portion of the interior of said cylinder for the admission of the compressed medium thereto, exhaust means disposed respectively adjacent the opposite ends of said cylinder and synchronizing means for effecting the simultaneous movement of said pistons in opposite directions within said cylinder.

1,678,310. SMOOTHING IRON. HENRY S. WOODRUFF, Schenectady, N. Y. Filed Jan. 17, 1925, Serial No. 3,202. Renewed June 5, 1928. 11 Claims. (Cl. 219—25.)



9. In an iron, a body, a handle having an arm, a heating unit secured to the body, electrical contacts connected to said heating unit, a connection plug having electrical contacts connected to a source of current, a spring tongue on said plug to interlock with said handle arm, and a spring member carried by said plug and detachably connected to the body.

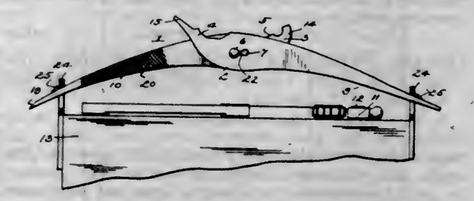
1,678,311. FLOTATION METHOD. GALE L. ADAMS, Elizabeth, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Jan. 30, 1924. Serial No. 689,584. 5 Claims. (Cl. 209—166.)

1. A process of concentrating ores, which comprises agitating the finely divided ore with water and a small quantity of a mixture containing 80% of pressure still tar, about 19% of residuum from hydrolysis of sulfated olefines, and about 1% of a water-soluble sodium sulfonate of petroleum hydrocarbons, aerating to form a froth and separating the froth.

1,678,312. FLOTATION OIL. GALE L. ADAMS, Huntington, Park, Calif., assignor to Standard Oil Development Company, a Corporation of Delaware. Original application filed Jan. 30, 1924, Serial No. 689,584. Divided and this application filed July 28, 1927. Serial No. 209,189. 6 Claims. (Cl. 252—9.)

1. A flotation oil which comprises 80% of pressure still tar, slightly over 19% of residuum from hydrolysis of sulfated olefins, and slightly less than 1% of water-soluble sodium sulfonate of petroleum hydrocarbons.

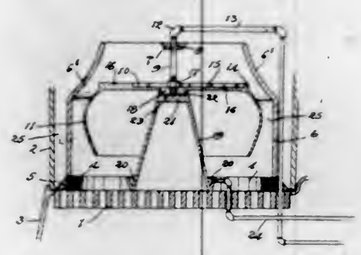
1,678,313. BATTERY TOOL. ROBERT L. S. ATKINSON, Columbus, Ohio. Filed July 31, 1925. Serial No. 47,301. 2 Claims. (Cl. 294—44.)



1. A battery tool comprising a plier shaped body including a pair of handle members pivotally connected at their point of intersection, means for locking said

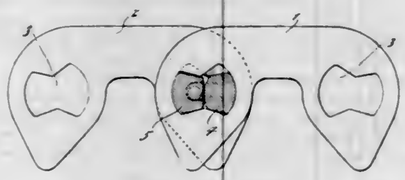
members against pivotal movement when said members occupy substantially a fully open position, and means on the outer ends of said members providing for the suspension of a battery case therefrom.

1,678,314. OIL BURNER. ALFRED H. BEIRNES, Winnipeg, Manitoba, Canada. Filed Oct. 16, 1926. Serial No. 142,021. 4 Claims. (Cl. 158—53.)



1. The combination with a supporting grate, of a casing mounted on the grate and having the upper and lower ends thereof open and the upper end inwardly flaring, an inverted bowl suspended for vertical adjustment within the casing and underlying the inwardly flaring upper end of the casing, said bowl forming an internal mixing chamber and an exterior annular passage between the bowl and the casing, a cone shaped member mounted centrally on the grate and extending upwardly within the bowl and provided at the upper end with an oil receiving cup centrally underlying the closed upper end of the bowl and a feed pipe for fuel oil passing through the closed upper end of the bowl and delivering into the cup.

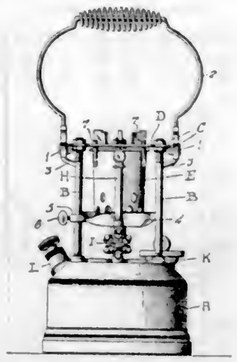
1,678,315. CONNECTING PIN FOR LINK CHAINS. WARREN J. BELCHER, Hartford, Conn., assignor to The Whitney Mfg. Co., Hartford, Conn., a Corporation of Connecticut. Filed Dec. 22, 1924. Serial No. 757,316. 6 Claims. (Cl. 74—32.)



2. A connecting pin for link chains comprising two parts having coacting outside surfaces, one of said parts having an overhanging portion and the other part having a portion cooperating with the overhanging portion, said portions acting to hold said parts in cooperative relation.

1,678,316. PLUMBER'S FURNACE. OTTO BERNZ, Newark, N. J. Filed Aug. 26, 1926. Serial No. 131,555. 3 Claims. (Cl. 158—32.)

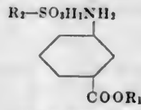
1. In a furnace, the combination of a frame, a burner thereon, a top plate disposed over said burner and formed at its edges with diametrically opposite pivot studs, and a U-shaped handle having its arms pivotally mounted intermediate their lengths upon said pivot studs, the free ends of said arms of the handle being formed with inturned fingers, and said studs, inturned fingers and top plate being relatively arranged so that said fingers engage the underside of said top plate in spaced relation to said pivot studs when the handle is swung in one direction to hold said handle in inclined relation to said top plate above the latter to support a soldering iron



or the like, and said handle may swing in the opposite direction downwardly into an out-of-the-way position at one side of said frame.

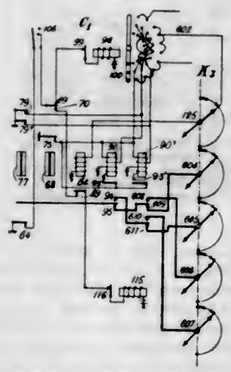
1,678,317. MANUFACTURE OF EASILY-SOLUBLE ANÆSTHETICS OF THE METAAMINOBENZOIC ACID ESTER SERIES. OTTO BILLETER, ERNST ROTHLIN, and JULIUS PEYER, Basel, Switzerland, assignors to Chemical Works, formerly Sandoz, Basel, Switzerland, a Firm. Filed Mar. 3, 1927. Serial No. 172,551, and in Germany Mar. 10, 1926. 1 Claim. (Cl. 260—105.)

As new articles of manufacture the herein described anæsthetics, consisting of salts meta amina-benzoic acid-esters, having the general formula



where R_1 and R_2 stand for aliphatic radicals, these salts constituting colorless crystals, being readily soluble in water with a very weak acid reaction, being stable in aqueous solution, even when heated for a longer time and possessing a powerful anæsthetic action.

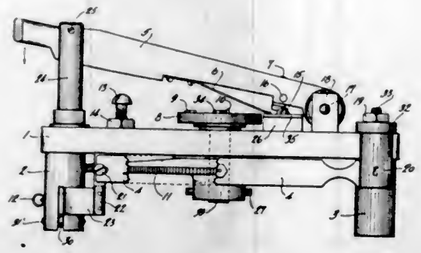
1,678,318. AUTOMATIC SWITCHING SYSTEM. ANTOINE BARNAY, Paris, France. Filed Apr. 28, 1925, Serial No. 26,507, and in France Apr. 29, 1924. 39 Claims. (Cl. 179—18.)



1. In an automatic telephone system, a calling line, a calld line, an electrical impulse sender, an impulse receiving organ having two separate series of contacts, a

single motion connecting mechanism for connecting calling and called lines, the said mechanism having a plurality of series of contacts and corresponding sets of wipers constituting a plurality of similar rotary switches commonly driven, means for determining the setting of the said wipers by the state of the first series of contacts of the impulse receiving organ, the calling line being connected to a given set of wipers by the second series of contacts of the impulse receiving organ.

1,678,319. PUNCHING DIE. JOHN G. BLESSING, Oak Forest, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Jan. 14, 1925. Serial No. 2,250. 13 Claims. (Cl. 164—44.)



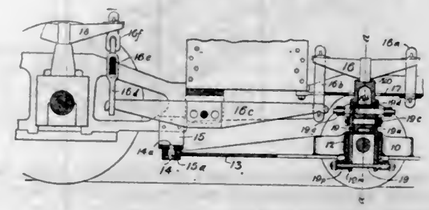
1. In a cutting die, a turn-table, a cutting member, a manually operable operating member for moving said cutting member from a normal to an alternate position and for positively locking said turn-table against rotation in either direction, means for restoring said operating member following its operation, and means controlled by the operation and restoration of said operating member for moving said turn-table.

1,678,320. ANIMATED SIGN. SAMUEL J. BLOCKER, Dallas, Tex. Filed Feb. 8, 1927. Serial No. 166,786 4 Claims. (Cl. 40—138.)



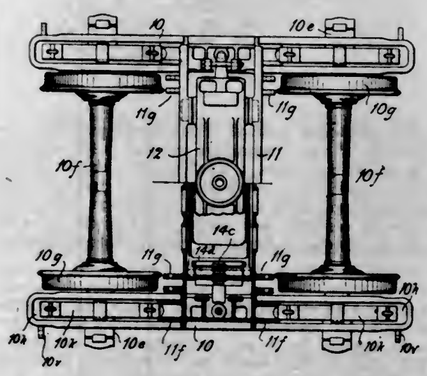
4. An animated sign comprising a stationary perspective view and a plurality of movable elements distributed about the view and means for simultaneously applying to said elements movements decreasing in intensity in proportion to the distance of the elements from the foreground of the view.

1,678,321. TRUCK FOR LOCOMOTIVE ENGINES. JAMES G. BLUNT, Schenectady, N. Y. Filed Apr. 21, 1926. Serial No. 103,457. 12 Claims. (Cl. 105—174.)



1. A frame member for locomotive trucks of the outside bearing type, formed as an integral casting, and comprising a horizontal loop at each end, adapted to receive and fit across a wheel, a transverse member connecting the loops, and a journal box in the outer portion of each loop.

1,678,322. FOUR-WHEEL TRUCK FOR RAILROAD VEHICLES. JAMES G. BLUNT, Schenectady, N. Y. Filed Apr. 5, 1927. Serial No. 181,026. 7 Claims. (Cl. 105—186.)

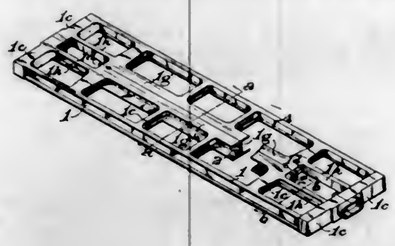


1. A four wheel truck for railroad vehicles, comprising two side frame members, each embodying two pedestals, and two spaced parallel side walls, the spaced side walls providing recesses intermediate the pedestals, for locking tongues, and pockets for springs, one pocket being disposed above each pedestal; and a cross member, having an extension at each end, extending over and bearing on a side frame, each of said extensions having two oppositely disposed tongues, fitted into the recesses in the juxtaposed side frame.

1,678,323. FRAME FOR RAILROAD VEHICLES. ALFRED W. BRUCE, New York, N. Y. Filed Feb. 15, 1928. Serial No. 254,369. 3 Claims. (Cl. 105—236.)

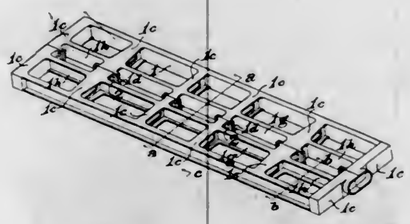
1. In a fabricated railroad vehicle frame structure, the combination of two counterpart castings, each comprising, in an integral piece, throughout its entire length, a longitudinally extending side member, a plurality of cross

tie sections, projecting laterally therefrom, inner longitudinal members connecting the cross tie sections, said inner longitudinal members abutting against counterpart



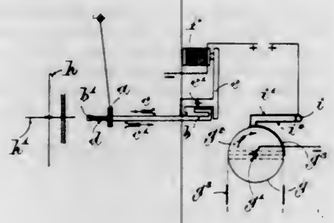
members on the other castings; and means by which the abutting inner longitudinal members are rigidly secured together.

1,678,324. FRAME FOR RAILROAD VEHICLES. ALFRED W. BRUCE, New York, N. Y. Original application filed Feb. 15, 1928, Serial No. 254,369. Divided and this application filed Apr. 4, 1928. Serial No. 267,169. 3 Claims. (Cl. 105—172.)



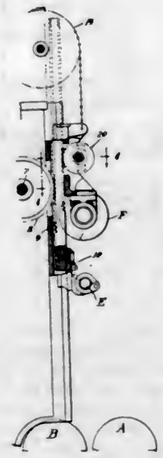
1. In a fabricated railroad vehicle frame structure, the combination of two counterpart castings, each comprising, in an integral piece, a longitudinally extending side member; a plurality of cross tie sections, projecting laterally therefrom; inner longitudinal members, connecting the cross tie sections; and means by which the cross tie sections of adjacent castings are rigidly secured together.

1,678,325. ARRANGEMENT FOR DIRECTLY REPRODUCING ON FABRIC THE REQUIRED PATTERN. EMILE ACHILLE BUTIN and LOUIS GIRARD, Lyon, France. Filed Aug. 3, 1925, Serial No. 47,952, and in France Aug. 7, 1924. 5 Claims. (Cl. 139—319.)



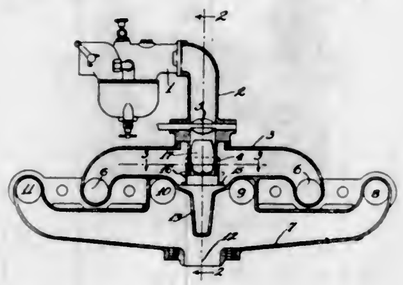
1. Apparatus for tracing patterns for Jacquard looms comprising an oscillating element, a jacquard needle controlling a sliding element arranged for movement corresponding to that of said oscillating element, a pivotally mounted lever having an armature, said lever and said sliding element being provided with means for engagement by said sliding member when the latter is in one position and for release by said sliding member when the latter is in another position, an electric circuit including an electro-magnet with which said armature is associated, a circuit closer for said circuit including a contact point, and a movable pattern carrying element provided with a pattern in card form, and an insulating background therefor, said contact point closing said circuit when said pattern comes in contact therewith.

1,678,326. WINDING MACHINE. JAMES A. CAMERON, Brooklyn, N. Y., assignor to Cameron Machine Company, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 22, 1927. Serial No. 185,731. 18 Claims. (Cl. 242—66.)



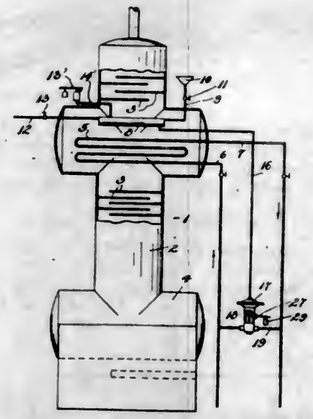
1. In a winding machine, a winding roll displaceable by accumulation of material thereon, a top pressure roll displaceable with the winding roll, and a reciprocatory equalizing device to control the parallelism of both rolls.

1,678,327. REGENERATOR MANIFOLD. WILLIAM S. CARLSTON, Kokomo, Ind., assignor to Byrne, Kingston & Co., a Corporation of Indiana. Filed Mar. 3, 1923. Serial No. 622,665. 5 Claims. (Cl. 123—122.)



1. The combination with a hydrocarbon engine and the intake and exhaust manifolds thereof, of a pocket opening into the intake manifold and projecting into the exhaust manifold, the pocket being aligned with the fuel mixture inlet to the intake manifold and velocity responsive means for automatically varying the deflection of the path of flow of the fuel mixture into the mouth of the pocket.

1,678,328. TEMPERATURE CONTROLLER FOR OIL-SEPARATING TOWERS. RICHARD H. CARR and CORNELIUS B. WATSON, Columbus, Ohio, assignors to The Pure Oil Company, Chicago, Ill., a Corporation of Ohio. Filed Apr. 13, 1926. Serial No. 101,790. 7 Claims. (Cl. 196—141.)



3. The combination with a separating tower, of a preheater in said tower, inlet and outlet connections admitting of the circulation of oil stock through said preheater, a by-pass connection for shunting the oil stock circulation from said preheater, and automatic means responsive to the internal temperatures of said tower for controlling the oil stock flow through said by-pass.

1,678,329. PICK-UP VEHICLE BODY AND METHOD OF HANDLING GOODS. WILLIAM H. CLARKE and BYRON G. COOK, Lakewood, Ohio. Filed July 27, 1921. Serial No. 487,972. 4 Claims. (Cl. 214—65.)



1. The process of transferring freight from the ground level to a truck for transportation and redelivery to the ground level, which comprises the steps of assembling the freight upon a removable body section of said truck, hoisting and positioning said body section, from any angle relatively to said truck from the ground level, upon said truck by a single continuous load lifting operation, transporting said freight to the point of delivery, releasing and unloading said body section from the truck through a single continuous load lifting operation, and unloading the freight from the body section.

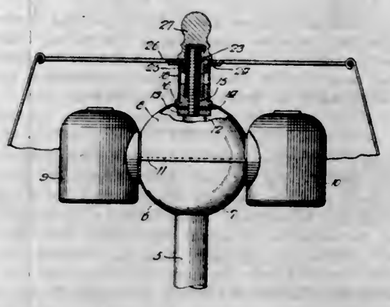
1,678,330. CONTAINER AND PROCESS OF PRODUCING THE SAME. ROBERT G. CLYNE, St. Louis, Mo. Filed May 24, 1926. Serial No. 111,303. 2 Claims. (Cl. 18—59.)

2. The process of producing a closed-end container, which consists in providing a tubular body the wall of which at an end thereof is soft and plastic, then seating a plastic flanged end-closure within the body at the plastic end thereof, then by spinning, inturning, and clinching the plastic body end-portion over and upon and into interlocking engagement with the flange of the closure, then



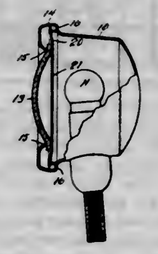
seating a second plastic closure upon the first closure and in peripheral engagement with the inturned end of the body, and then compressing and compacting said closures and the body end-portion substantially integrally together.

1,678,331. ELECTRIC CLUSTER LAMP BODY AND SHADE HOLDER. VICTOR R. DESPARD and HANS C. R. POPP, Valparaiso, Ind., assignors to McGill Manufacturing Company, Valparaiso, Ind., a Corporation of Indiana. Filed June 3, 1927. Serial No. 196,262. 2 Claims. (Cl. 240—128.)



1. Lamp shade mounting means for electric light clusters comprising a screw-threaded stem projecting from the cluster body, a clamping member screw-threaded thereon and having an enlarged recess extending downwardly from the top thereof, a sleeve on said member projecting thereabove, a tubular member detachably mounted in said recess and surrounding said stem, a disk member resting on said sleeve and screw-threaded on said tubular member, and a securing member screw-threaded on said tubular member above said disk for clamping a lamp shade thereon.

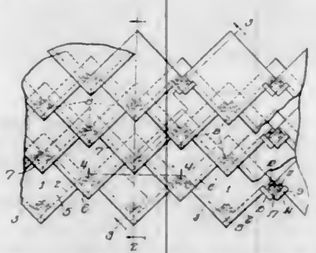
1,678,332. SIDE LAMP FOR AUTOMOBILES. SAMUEL E. DRAYER, Cleveland, Ohio, assignor to The Guide Motor Lamp Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 19, 1927. Serial No. 184,812. 4 Claims. (Cl. 240—41.)



1. As a new article of manufacture, a lamp comprising a body portion having oppositely disposed outwardly extending lugs, a channeled ring having a notch, a glass

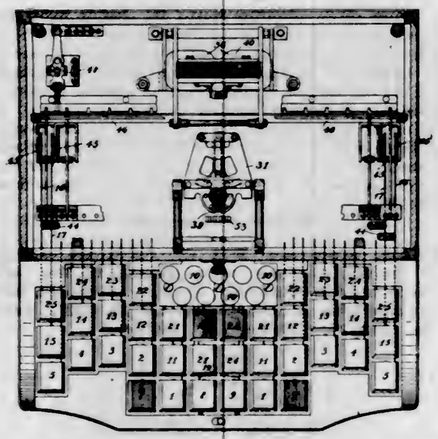
front, and a flat ring interposed between the forward edge of the body portion and the rear edge of the glass, the inner edge of the channeled ring engaging the outer face of the glass and the outer edge being held in locked relation with the edge of the body portion.

1,678,333. ROOF AND SHINGLE SECURING MEANS. CARROLL C. FIGGE, Chicago, Ill. Substitute for application Serial No. 633,829, filed Apr. 23, 1923. This application filed June 9, 1926. Serial No. 114,902. 8 Claims. (Cl. 108—33.)



1. A concealed single piece shingle holding device for angular butt shingles comprising a box having ledges at different elevations from the bottom thereof for engaging within turned under angular shingle extremities and on top of shingles in three different courses.

1,678,334. KEYBOARD FOR TYPEWRITING MACHINES. OSKAR FISCHER, Berlin-Friedenau, Germany, assignor to N. V. Machina Maatschappij vor Handel en Industrie, Amsterdam, Netherlands, a Corporation of the Netherlands. Original application filed Jan. 25, 1924, Serial No. 688,399, and in Germany Nov. 4, 1918. Divided and this application filed Apr. 10, 1925. Serial No. 22,060. 3 Claims. (Cl. 197—98.)



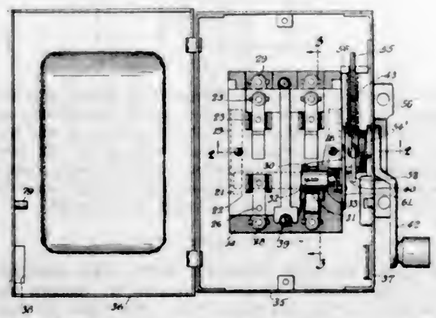
1. In a keyboard for a typewriting machine a grouping of fifteen keys in three groups of five keys each, the keys within each group being situated in a common plane and displaced from straight-line succession according to the natural positions of the finger tips of a user, the three groups being arranged at successively higher levels from front to rear, the sides of outer keys of the second and the third rows extending adjacent inner keys of the first and second rows, and each three corresponding particular keys within the three rows lying within normal reach of a finger of the operator while the hand remains substantially at rest.

1,678,335. FLEXIBLE SHAFT. RALPH M. GASTON, Chicago, Ill., assignor to Mall Tool Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 28, 1927. Serial No. 171,522. 6 Claims. (Cl. 64—30.)



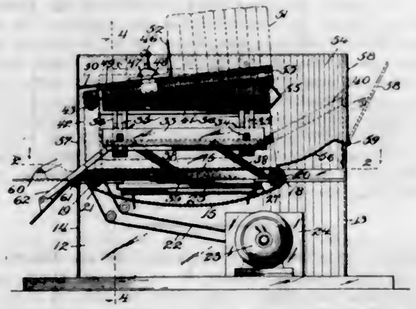
1. A flexible shaft including a housing, a hard metal helical liner therefor having a slightly rounded inner surface of substantial area, and a driving core extending through the housing and located within the liner thereof.

1,678,336. MOTOR-STARTING SWITCH. BENJAMIN E. GETCHELL, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed Apr. 4, 1925. Serial No. 20,610. 17 Claims. (Cl. 200—3.)



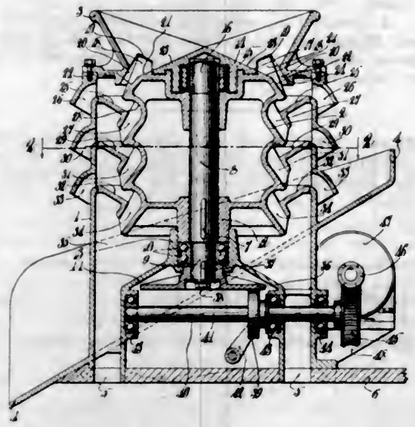
1. The combination in a fused switch construction of a quick-make and quick break, double break, main switch, a double break auxiliary fuse disconnecting switch, coacting means for causing a predetermined sequence of movement of the auxiliary switch and the main switch by the normal manual operation of the main switch, said coacting means including means for holding the main switch and the auxiliary switch in their respective on and off positions.

1,678,337. TOASTER. DANIEL F. HALIFAX, Newark, N. J. Filed Apr. 21, 1927. Serial No. 185,427. 7 Claims. (Cl. 219—19.)



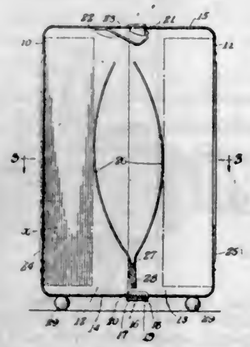
6. A toaster comprising a casing having a conveyor therein, a heater between the reaches of the conveyor, said heater being removable transversely from the casing, a second heater above the conveyor, a track for the travel of said second heater, a bar for supporting said heater, links for raising and lowering the bar and a feeding means for supplying slices in succession to the conveyor and means for operating the feeding means when the conveyor is in operation.

1,678,338. CENTRIFUGAL CLEANER. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 19, 1921. Serial No. 508,793. 11 Claims. (Cl. 209—115.)



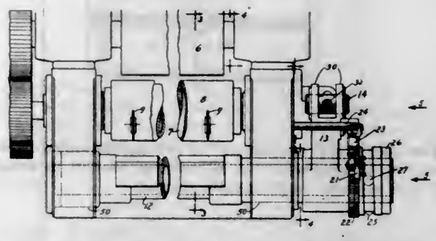
1. In a cleaning mechanism, a cleaning member rotating on a vertical axis having an inclined initial receiving surface on its periphery adapted to deliver material externally and internally, means for directly delivering material between the edges thereof by gravity feed, means for collecting material externally discharged therefrom and means for receiving material sliding inwardly thereon.

1,678,339. DISPENSER. PAUL H. HORWITT, Brooklyn, N. Y., assignor to Independent Paper Mills, Inc., Brooklyn, N. Y. Filed Mar. 23, 1926. Serial No. 96,894. 3 Claims. (Cl. 312—61.)



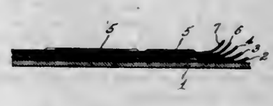
1. In a dispenser for napkins and the like, the combination with receptacles hingedly connected together at one end and provided with openings for the withdrawal of the contents thereof, of means for adjustably positioning the said contents adjacent the said openings and comprising spring members hingedly mounted at one end on said receptacles and adapted with their free ends to press the said napkins toward the said openings and means for locking together the free ends of the said hinged receptacles.

1,678,340. SLITTING MACHINE. ROBERT MCC. JOHNSTONE, Roselle Park, N. J., assignor to Cameron Machine Company, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 23, 1926. Serial No. 104,043. 6 Claims. (Cl. 164—60.)



1. A cutting mechanism including: a backing member, a score-cut cutting member to engage therewith, means for moving said cutting member toward and away from the member, and means, actuated by the to-and-fro movement of said cutting member, to cause endwise traverse of it with respect to the backing member, to thereby establish a new point of control between the members when they reengage.

1,678,341. TRANSFER SIGN. JOSEPH W. KABER, Cleveland, Ohio. Filed July 13, 1925. Serial No. 43,186. 1 Claim. (Cl. 41—33.)

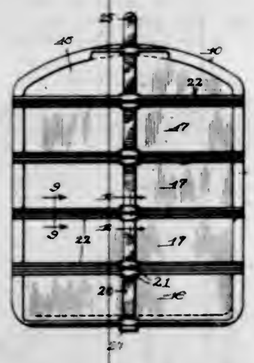


A transfer sign, comprising a sign character provided with an adhesive coated face for securing it to a surface for display, a first backing sheet of relatively transparent and thin material removably secured by a relatively strong adhesive to the other face of said sign character and adapted to remain therewith until said character becomes firmly secured to said surface, and a second backing sheet of relatively strong material removably secured by a relatively mild adhesive to said first mentioned backing sheet, whereby the sign may be secured to the surface by its application thereto with moisture between the surface and the otherwise dry sign and the second backing sheet may be promptly stripped from the first backing sheet by separation along the plane of the mild adhesive, and the first backing sheet may be subsequently removed by the application of moisture thereto.

1,678,342. FURNACE DAMPER. FRED E. KLING, Youngstown, and CHARLES EDWARD MALLEY, Springfield, Ohio. Filed Nov. 26, 1926. Serial No. 150,789. 7 Claims. (Cl. 126—285.)

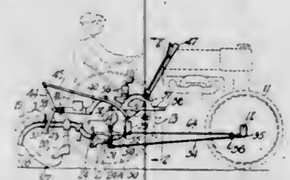
1. In a damper, a gate member comprising a plurality of sections disposed in the same plane, and connecting

means for said sections permitting freedom of expansion or contraction of said sections in said plane independent-



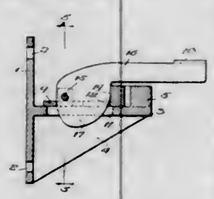
ly of each other, including a tie rod maintaining adjacent sections in alignment but permitting relative movement of said sections longitudinally thereof.

1,678,343. PLOW. CHARLES D. KRETZER, Portland, Oreg. Filed June 6, 1927. Serial No. 196,737. 3 Claims. (Cl. 97—47.)



1. A plow having a hitch for attaching the same to the front axle of a tractor, an adjustable hitch support for the forward end of the plow beam, a lever for raising said plow out of the ground, a crank actuated by said lever, a roller on said crank engaging the under side of the plow beam, and spring means on said crank adapted to urge said plow downwardly.

1,678,344. LINE HOLDER. HERMAN E. MANOFSKY, Chicago, Ill. Filed Apr. 21, 1927. Serial No. 185,612. 7 Claims. (Cl. 24—134.)



1. In a device of the class described and in combination, an angular bracket having its horizontal portion slotted, a stationary jaw on the horizontal portion, a movable jaw slidably mounted on the horizontal portion, a pivotally mounted cam for movement into the slot and engaging the second jaw to move the same toward the stationary jaw, and means whereby to manually actuate said cam.

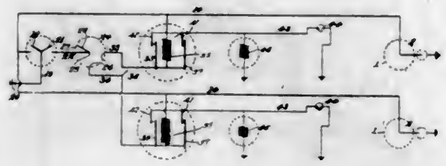
1,678,345. MILLBOARD PRODUCT AND PROCESS. RICHARD V. MATTISON, Ambler, Pa., assignor to Keasbey & Mattison Company, a Corporation of Pennsylvania. Filed June 25, 1921. Serial No. 480,356. 9 Claims. (Cl. 106—18.)

1. A composition comprising hydraulic cement, asbestos fibre and a finely divided precipitated calcium carbonate.

1,678,346. MILLBOARD PRODUCT AND PROCESS. RICHARD V. MATTISON, Ambler, Pa., assignor to Keasbey & Mattison Company, a Corporation of Pennsylvania. Original application filed June 25, 1921, Serial No. 480,356. Divided and this application filed Feb. 12, 1924, Serial No. 692,431. Renewed June 11, 1928. 9 Claims. (Cl. 106—18.)

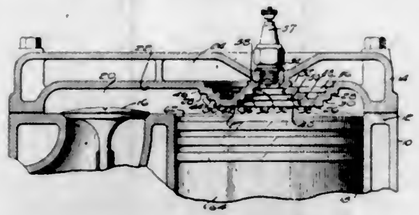
1. A composition comprising colloided hydraulic cement, fibrous material, calcium hydrate and precipitated calcium carbonate, the mixture being subjected to pressure before the cement sets.

1,678,347. METHOD OF AND APPARATUS FOR LUBRICATING FRICTION SURFACES. RALPH R. MCCLURE, San Francisco, Calif. Filed May 24, 1924. Serial No. 715,762. 6 Claims. (Cl. 184—7.)



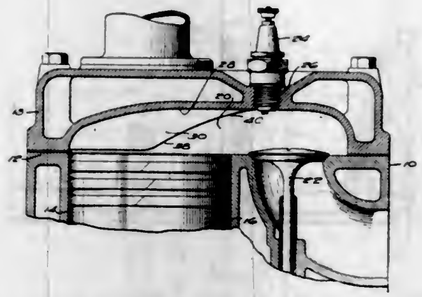
4. An apparatus for lubricating friction surfaces consisting of a lubricant holder connected with and located in close proximity to the surface to be lubricated, an electrically operated lubricant expelling means associated therewith, an operating circuit, a signal circuit, a signal within the latter circuit and a relay for controlling the operation of the signal dependent on a variation from normal of the condition of the signal circuit.

1,678,348. COMBUSTION CHAMBER FOR INTERNAL-COMBUSTION ENGINES. ARLINGTON MOORE, New York, N. Y., assignor, by mesne assignments, to Maxmoor Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 30, 1926. Serial No. 145,212. 15 Claims. (Cl. 123—191.)



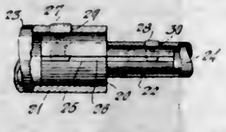
1. An internal combustion engine comprising top and lateral wall portions forming a combustion chamber, and a portion projecting downwardly from said top wall portion into the combustion chamber in spaced relation to the lateral wall portions thereof; said projecting portion having an upwardly tapering recess therein opening at the base thereof into said combustion chamber.

1,678,349. ANTIDETONATING CYLINDER HEAD FOR INTERNAL-COMBUSTION ENGINES. ARLINGTON MOORE, New York, N. Y., assignor, by mesne assignments, to Maxmoor Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 30, 1926. Serial No. 145,213. 5 Claims. (Cl. 123—191.)



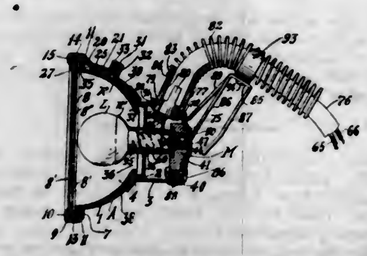
1. An internal combustion engine comprising a cylinder having a combustion chamber at the end thereof extending laterally therefrom, means in the laterally extending portion of the combustion chamber for admitting a fuel charge thereto, and a plurality of rib portions projecting downwardly from the part of the ceiling of the combustion chamber over said cylinder and extending towards said laternally extending portion of the combustion chamber; said rib portions forming a series of parallel passages opening into said laternally extending portion at the ends of said passages adjacent thereto and open at the lower sides thereof.

1,678,350. ELECTRIC CLAMP CONNECTER. WILLIAM N. OTT, Bloomfield, N. J. Filed Nov. 5, 1926. Serial No. 146,457. 3 Claims. (Cl. 173—263.)



1. An electrical clamp connecter, comprising an expansible member for insertion in a tubular conductor, said member having wings hinged longitudinally of the member and otherwise free from each other and adapted to be spread apart, and means transverse to the member for spreading said wings.

1,678,351. ELECTRIC SAFETY LANTERN. PAUL D. PAYNE, Irvington, N. J., assignor to Edison Storage Battery Company, West Orange, N. J., a Corporation of New Jersey. Filed May 17, 1923. Serial No. 639,496. 2 Claims. (Cl. 240—17.5.)



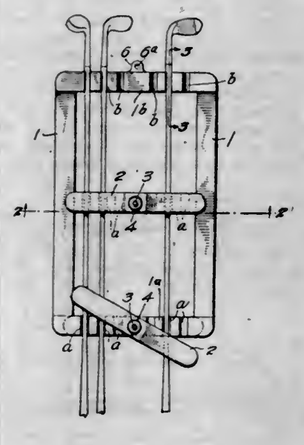
1. In an electric safety lantern, a two-part separable casing, a window for said casing, means for securing said window to the casing, and unitary means for maintaining said securing means in operative position and for holding the parts of said casing in connected position, substantially as described.

1,678,352. PERMANENT-WAVE CLIP. FRANK A. PEARL, North Milwaukee, Wis. Filed Nov. 5, 1926. Serial No. 146,432. 2 Claims. (Cl. 132—36.1.)



1. A permanent wave clip, comprising a pair of overlapping jaws hinged together at one pair of extremities and provided with releasable pin and tooth locking means operable only upon lateral movement of the jaws, said pin and tooth being slightly flexible with respect to each other.

1,678,353. HOLDER FOR GOLF CLUBS. WILLIAM F. REACH, Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Filed July 2, 1927. Serial No. 203,202. 6 Claims. (Cl. 211—8.)



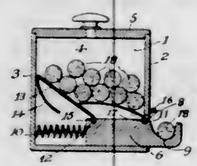
1. A holder for golf club shafts comprising a rigid frame, composed of a pair of side members, end cross members joining the side members, and a rigid cross member intermediate the end cross members, each of said cross members having a transverse channeled recess therein, said recesses aligning longitudinally of the frame, to receive a golf club therein extending between the cross members, the channeled recess in one of said end cross members having a contracted entrance slot, the entrance slots of the channeled recesses in the other cross members being uncontracted; the recess having the contracted entrance slot being adapted to receive the shaft of a golf club and to lock the club in the end of the contracted recess, clamping bars for clamping the club in the recesses in the said other cross members, said clamping bars each overlying the recessed face of one of said cross members, each of said other cross members having a central opening therein, bolts mounted one in each opening and projecting from said cross member, each of said

clamping bars having a central bore adapted to receive a bolt therethrough, and nuts on the bolts bearing on the outer surfaces of the clamping bars, and adapted to be operated to clamp the bars to the cross members.

1,678,354. PROCESS OF RAYON MANUFACTURE. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed July 13, 1926. Serial No. 122,272. 7 Claims. (Cl. 18—54.)

1. In the manufacture of rayon, a process which comprises heating without appreciable coagulation an aqueous solution of a cellulose derivative to reduce its viscosity immediately prior to spinning it, while so heated spinning such solution into filaments, and delivering the filaments into a setting bath.

1,678,355. CIGARETTE-DELIVERY BOX. CHARLES C. ROBERTS, Bridgeport, Conn. Filed Dec. 22, 1927. Serial No. 241,752. 2 Claims. (Cl. 312—80.)



1. A cigarette delivery device, comprising a box, a normally spring impelled delivery tray having a channel in its front portion, a downwardly inclined tilting plate pivotally carried by the rear of said tray and bearing at its free edge against the rear wall of the box, and an agitator plate whose front edge is pivotally connected to the tray while its rear edge rests freely upon said plate.

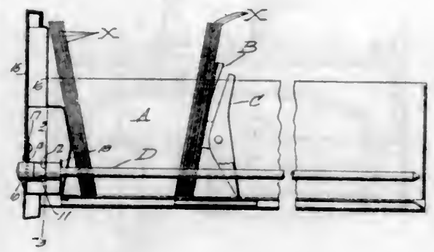
1,678,356. CAR LINER. WILLIAM WALLACE ROWE, Cincinnati, Ohio, assignor to The Paper Service Company, Lockland, Ohio, a Corporation of Ohio. Filed Apr. 28, 1926. Serial No. 105,263. 8 Claims. (Cl. 105—423.)



1. A car liner section formed of two pieces of paper or other fabric folded and secured so as to form a base, side and end walls, with a lapped seam about all of the base angles in which all interior laps are secured on the base, as distinguished from the side or end walls, and a full lapped seam reinforcing the vertical angle on the outside.

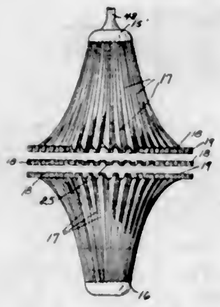
1,678,357. LOCKING MEANS FOR INDEX CARDS AND THE LIKE. ERICK SAMPSON, Sr., Jamestown, N. Y., assignor to Art Metal Construction Company, Jamestown, N. Y. Filed Jan. 27, 1926. Serial No. 84,082. 7 Claims. (Cl. 129—16.)

1. The combination with a holder for cards or the like, of a locking rod passing through a hole in a wall of said holder and adapted to engage the cards for locking them in the holder, said rod having adjacent its outer end a peripheral shoulder, a locking member on the holder adapted to engage said shoulder to lock the rod in place in the holder, and a key having a sleeve portion adapted to be inserted into said hole around the outer end of said



rod over said shoulder and between said rod and said locking member to release said locking member from the rod and permit the rod to be withdrawn through said hole, said sleeve portion of said key being adapted to pass over and obstruct said shoulder to prevent the reengagement of said locking member therewith.

1,678,358. CHRISTMAS-TREE ORNAMENT AND THE LIKE AND METHOD FOR THE MANUFACTURE THEREOF. WILLIAM H. SCHNEIDER, Milwaukee, Wis., assignor to Arthur C. Kootz, Milwaukee, Wis. Filed Mar. 14, 1925. Serial No. 15,483. 11 Claims. (Cl. 220—1.)

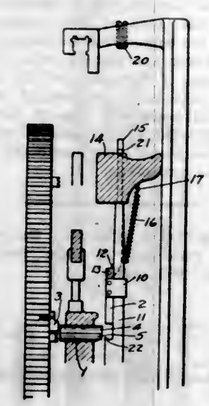


1. A new article of manufacture comprising two elements each provided with a portion formed with a plurality of convolutions each opening marginally of said portion and interlocked with a corresponding convolution of the other element.

1,678,359. METHOD OF TREATING METAL ARTICLES. LOUIS SCHULTE, Pittsburgh, Pa., assignor to Allegheny Steel Company, a Corporation of Pennsylvania. Filed Apr. 20, 1926. Serial No. 103,375. 3 Claims. (Cl. 148—8.)

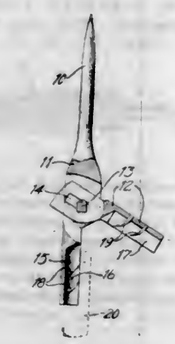
1. The method of treating the surfaces of articles made from chromium iron alloys which consists in subjecting said surfaces to the frictional action of solid particles in the presence of a nitric acid solution.

1,678,360. AUXILIARY VISE AUTOMATIC. DE WITT C. SCOUGAL, Seattle, Wash. Filed Apr. 7, 1927. Serial No. 181,694. 4 Claims. (Cl. 199—52.)



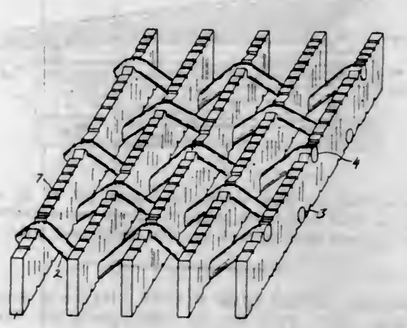
1. In a device of the class described, a split dog with both members resiliently held endwise, said dog being adaptable to replace the vise automatic stop mold disc dog of a casting machine, a clamp adaptable to be attached to the mold disc to engage the upper portion of the said dog, a bar slidable on the vise automatic stop rod, means for moving the said bar downward to engage the upper portion of the said dog when the first elevator slide fails to stop at the correct position and means for resiliently holding the said bar upward.

1,678,361. SURGICAL NEEDLE. CLARENCE G. SHEARON, Evanston, Ill., assignor to Sharp & Smith, Chicago, Ill., a Corporation of Illinois. Filed June 25, 1927. Serial No. 201,337. 3 Claims. (Cl. 128—339.)



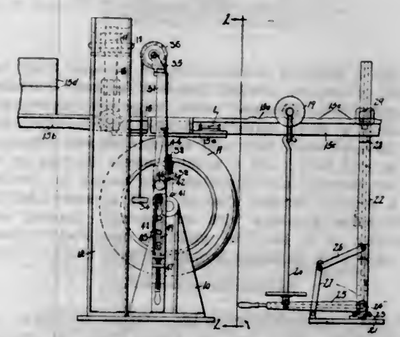
1. A needle having a pointed end with a thickened shank including a stationary part with a jaw pivoted thereto, said jaw adapted to be closed against the stationary part to grip the end of a thread therebetween, and means operated by movement of the jaw for locking the jaw in its closed position.

1,678,362. GRATING. ALONZO H. SLOAN, Detroit, Mich., assignor to Blaw-Knox Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed May 12, 1924. Serial No. 712,708. 6 Claims. (Cl. 94—30.)



1. A grating comprising a plurality of girder bars having slots formed in an edge thereof and lattice bars woven around the girder bars, the lattice bars lying in the recesses at the point of engagement with the girder bars.

1,678,363. MACHINE FOR INVESTIGATING THE PROPERTIES OF TIRES UNDER LOADS. VERNON L. SMITHERS, Cuyahoga Falls, Ohio. Filed Mar. 22, 1927. Serial No. 177,316. 10 Claims. (Cl. 73—51.)



1. A device of the class described comprising means for supporting a pneumatic tire, means for applying determinate loads onto the periphery of the tire, means for taking tread contact impressions of the tire under the determinate loads, and means for reproducing profiles of the sidewall of the tire on a chart when deflected under said determinate loads.

1,678,364. CONCENTRATOR TABLE. ALBERT H. STEBBINS, Los Angeles, Calif. Filed Jan. 8, 1927. Serial No. 159,817. 9 Claims. (Cl. 209—467.)

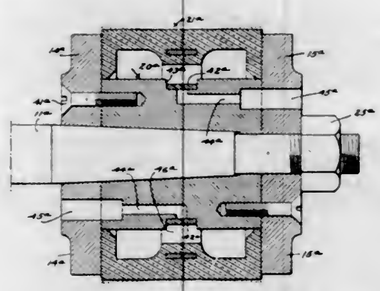
1. A concentrator table, comprising in combination, a deck casing having a material supporting surface that is mounted at a transverse inclination and having a concentrate wall that extends along the upper side of the deck, means for supporting the deck for vibratory movement, riffles provided upon the deck surface near the concentric wall and arranged to extend lengthwise

of the deck at a slight angle to said wall to direct the concentrates against the concentrate wall for retreatment, and other riffles provided upon the lower



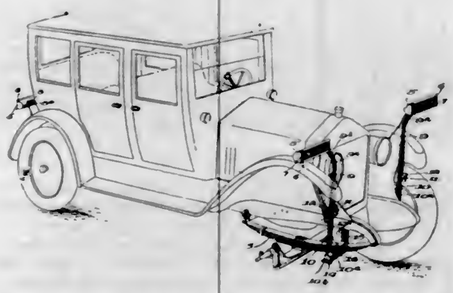
portion of the deck surface and arranged at an angle to the first mentioned riffles to direct concentrates up the inclined deck toward the first mentioned riffles.

1,678,365. SLUSH-PUMP PISTON. WAYNE N. SUTLIFF, Brea, Calif. Filed Nov. 10, 1926. Serial No. 147,538. 6 Claims. (Cl. 74—109.)



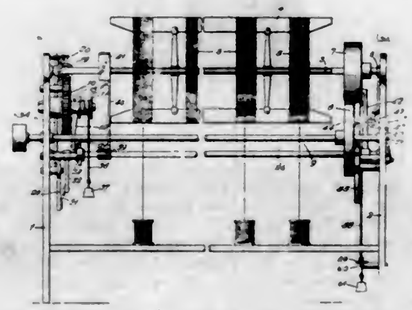
1. In a pumping organization: a plunger body comprising a central section disposed between outwardly extending radial flanges which cooperate therewith in providing a single annular chamber; means for admitting fluid pressure into said annular chamber from one end of said body; and a packing sleeve floating in said annular chamber and provided with means for restraining a central portion thereof, said pressure-admitting means being provided with an inwardly opening valve consisting of a band of yieldable material extending over said fluid passages formed in said central section.

1,678,366. VEHICLE SIGNAL. JAMES H. TANN, Lansing, Mich. Filed Dec. 28, 1926. Serial No. 157,560. 1 Claim. (Cl. 248—2.)



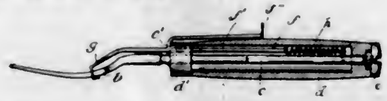
A signal casing support for automobiles and the like comprising a stud attached to the casing, an extensible and angularly adjustable standard comprising longitudinally slotted sections in a flat contact with each other, clamp bolts and nuts associated with the slots of said sections whereby the same may be retained in a predetermined adjusted position, the upper standard section terminating in a laterally directed branch the slot of which rotatably receives said casing carrying stud whereby the signal element can be adjusted rotatably and transversely of the axes of said standard while the sections thereof are alined, the lowermost standard section having its lower end formed with an enlarged flattened base portion, a threaded axially extending stud projecting from said base portion and having a clamp nut, and a slotted horizontal support having means for attachment to the vehicle and upon which said standard is mounted for rotatable and horizontal adjustment by means of its stud and clamp nut.

1,678,367. REELING MACHINE. PACIFIC J. THOMAS, Pittston, Pa. Filed July 22, 1926. Serial No. 124,176. 8 Claims. (Cl. 192—139.)



1. In a reeling machine, a reel shaft provided with a reel, a driven shaft, a counting wheel actuated by the driven shaft, an arm movable with the counting wheel, a bell crank lever actuated by said arm, a cam controlled by said bell crank lever, a rock shaft controlled by the cam, and means actuated by the rock shaft for breaking the connection between the driven shaft and the counting wheel and for halting the movement of the reel shaft.

1,678,368. PRONG CLEARING FORK. PACIFIC J. THOMAS, Wyoming, Pa. Filed Aug. 10, 1926. Serial No. 128,378. 1 Claim. (Cl. 30—5.)

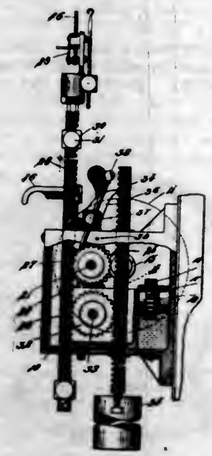


In combination with a pronged fork having a rearwardly extending shank and a separate handle enclosing the latter, a fork clearing member slidable upon said prongs and having a U-shaped shank portion the shorter leg of which lies outside of and substantially parallel to said handle and is provided with an actuating finger, and the longer leg of which is enclosed by said handle and provided with a spring connection to said fork shank.

1,678,369. TESTING MACHINE. FRANK A. VALENTINE, Apponaug, and DAVID C. SCOTT, Providence, R. I., assignors to Henry L. Scott Company, Providence, R. I., a Corporation of Rhode Island. Filed Oct. 22, 1926. Serial No. 143,372. 7 Claims. (Cl. 265—12.)

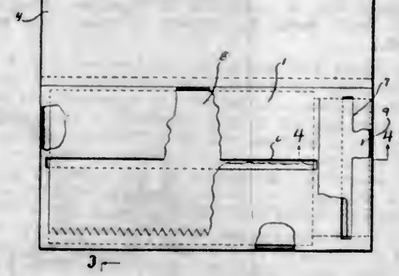
1. In a testing machine, a pull member through which tension is applied to the work being tested, driving mecha-

nism for actuating said pull member in one direction, means for releasing said pull member from the action of



said driving mechanism, and gravity actuated means for quickly returning said pull member to its starting position when so released.

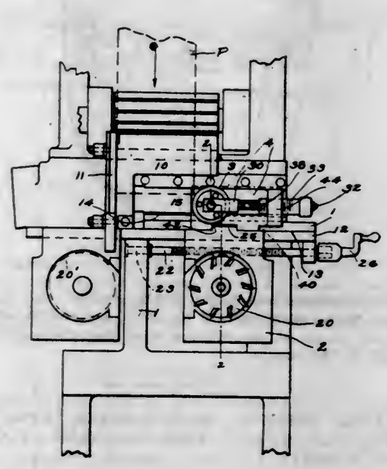
1,678,370. CARTON. FRANK P. VAUGHAN, Green Bay, Wis., assignor to Bay West Paper Co., Green Bay, Wis. Filed Nov. 24, 1926. Serial No. 150,485. 2 Claims. (Cl. 206—57.)



1. A carton comprising a front and rear panel and side panels, a cover flap carried by said rear panel and adapted to be wrapped downwardly over said front panel, said front panel having an elongated slit extending partway across, and having a transverse slit spaced from the end of said first mentioned slit, and a pair of stacks of interfolded sheets positioned behind said front panel and having the outermost sheets projecting through said slits.

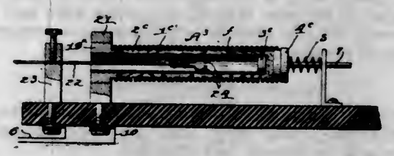
1,678,371. HOLD-OVER GUIDE FOR LUMBER-FINISHING MACHINES AND ADJUSTING MEANS THEREFOR. ORRA W. WEBB, Seattle, Wash., assignor to Stetson-Ross Machine Company, Seattle, Wash., a Corporation of Washington. Filed Nov. 6, 1924. Serial No. 748,094. 14 Claims. (Cl. 144—243.)

1. In a lumber-finishing machine, in combination, a side head yoke adjustable transversely, a cutter head carried by said side head yoke, a guide roller positioned to engage the lumber in advance of said cutter head, means independent of the side head yoke for supporting said guide roller, said guide roller support being movable transversely in a path parallel to the path of said side



head yoke, means permitting transverse yielding of said guide roller independently of its support, means connecting said support and said side head yoke for simultaneous transverse movement, and means for adjusting said latter connected members transversely.

1,678,372. ELECTRICALLY-OPERATED THERMOSTAT. GEORGE H. WHITTINGHAM, Baltimore, Md., assignor to Monitor Controller Company, Baltimore, Md., a Corporation of Maryland. Filed June 2, 1921. Serial No. 474,383. 3 Claims. (Cl. 200—122.)

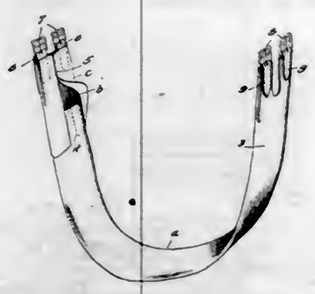


1. An electrically operated thermostat comprising a closed chamber filled with an expansible liquid, the wall of said chamber comprising a heating section composed of a tube of high resistance metal adapted to be included in an electric circuit, and an expansible section composed of a thin annularly corrugated metal tube, one of said sections being arranged within the other.

1,678,373. SADDLE GIRTH. JOSEPH WIESENFELD, Baltimore, Md.; Hattie M. Wiesenfeld executrix of said Joseph Wiesenfeld, deceased. Filed Nov. 18, 1926. Serial No. 149,058. 1 Claim. (Cl. 54—23.)

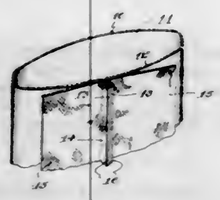
A saddle girth comprising a longitudinally folded leather band, a strip of elastic material secured at one of its ends to one end of said band and between the

folds thereof, a sheath of pliable material covering said strip and secured to its free end, said sheath extending over the adjacent end portion of the band and being



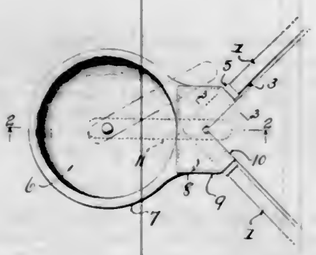
slidable thereon, and buckle straps doubled over the end of the strip and secured to the strip and sheath, one end of each strap, at the inner side of the girth, being enclosed by the sheath.

1,678,374. NECKTIE. JACOB F. BAKER, Detroit, Mich. Filed July 29, 1927. Serial No. 209,315. 4 Claims. (Cl. 2—146.)



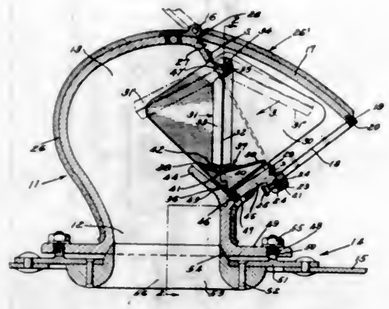
1. In a necktie, an outer member of flat tubular construction having a longitudinal turned-in seam located intermediate the folded edges thereof, and a lining comprising two strips arranged within said outer member and on opposite sides of said seam and joined to said outer member by stitching their adjacent edges when said seam is sewed, the free edges of said lining strips terminating adjacent the folded edges of said outer member.

1,678,375. ASH TRAY. WILLIAM H. BERSSENBRUGGE, Milwaukee, Wis. Filed Jan. 29, 1927. Serial No. 164,613. 4 Claims. (Cl. 45—75.)



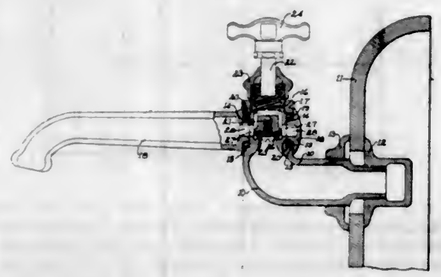
1. An ash tray comprising a body portion having a depression for the reception of ashes and having a bearing portion projecting therefrom, said bearing portion being provided with downwardly extending lips adapted to engage the groove of a card table at spaced points, and means for preventing the upward lifting of the ash tray.

1,678,376. OIL-STORAGE-TANK BREATHER. GLENN H. BOWLUS, Los Angeles, Calif. Filed Oct. 11, 1926. Serial No. 140,771. 17 Claims. (Cl. 220—85.)



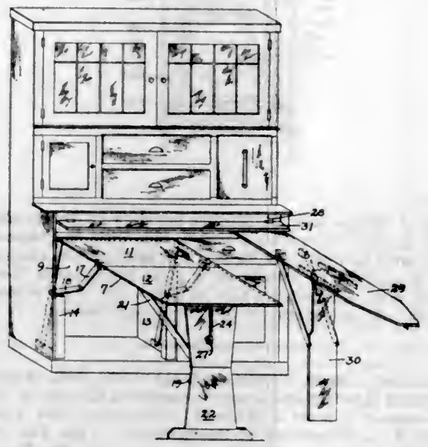
13. An oil tank breather, comprising: an attachment member; a hood member rotatable thereon in a horizontal plane; a nose member attached to said hood member, said nose member having a substantially rectangular opening therethrough; a light flap swingingly supported at its upper edge and substantially closing said opening when in a vertical position, said flap being free to swing in either direction, and a trough for containing a sealing liquid in which the lower edge of said flap is immersed when said flap is in a vertical position.

1,678,377. SWINGING-SPOUT VALVE. FRANK G. BROTZ, Kohler, Wis., assignor to Kohler Company, Kohler, Wis., a Corporation of Wisconsin. Filed Aug. 26, 1927. Serial No. 215,662. 1 Claim. (Cl. 251—157.)



1. A swinging spout valve for sinks, comprising an angular casing having a reduced end on its horizontal portion, said casing and said reduced end being screw threaded, a flanged collar threaded on the casing and a flanged supply coupling threaded on said reduced end to clamp the sink back between them, the upturned end of the casing having a reduced portion forming a shoulder and a screw threaded end, a spout member having a vertical bore fitting on the reduced portion of the upturned end of the casing, a packing nut threaded on the end of the casing and provided with a cylindrical portion, the ends of the bore of the spout member being countersunk to fit on the shoulder of the casing and the cylindrical portion of the packing nut respectively, to form packing glands at both ends of the bore, packing rings contained in the packing glands, a packing cap threaded on the end of the casing, a valve member threaded in the casing, a stem thereon passing through the packing cap, a handle on the stem, a valve face on the valve member, and a valve seat in the casing adapted to be engaged by the valve face, there being outlet ports in the valve casing beyond the valve seat and an annular groove in the bore of the spout member registering therewith and communicating with the passageway of the spout member.

1,678,378. CABINET. CLARENCE J. CAMPBELL, Oakland, Calif. Filed Apr. 23, 1924. Serial No. 708,445. 1 Claim. (Cl. 45—51.)

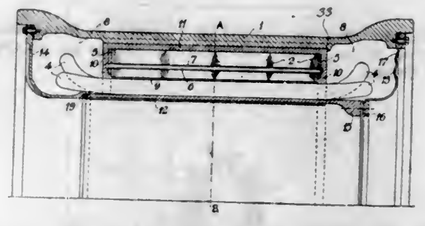


1. A table arranged for concealment in a recess, comprising pivotally connected sections arranged to be folded together within or extended when positioned without the recess, a supporting member for supporting one of said sections fixed thereto and arranged to lie within said recess while the table is extended, means for supporting the other section arranged to lie without the recess while the table is extended and comprising a leg portion fixedly secured to said latter section at substantially right angles thereto and provided with a slot, a leg portion pivoted to the first, a lever connected to said second section and arranged to extend through said slot and engage said first leg portion, and a link connecting said lever and second leg portion.

1,678,379. COAL BRIQUETTE AND PROCESS OF MAKING IT. GEORGE ALBERT CHAPMAN, Forest Hills, and ELTOFT WRAY WILKINSON, Queens Village, N. Y., assignors to Minerals Separation North American Corporation, New York, N. Y., a Corporation of Maryland. Filed Mar. 17, 1926. Serial No. 95,456. 19 Claims. (Cl. 44—1.)

1. A baked briquette consisting of uncoked anthracite coal substantially passing 10 mesh and bound by a binder which consists largely of the residue of oil which is less than ten per cent on the coal, said briquette being adapted when burned in a deep mass in a grate to leave an ash containing less than ten per cent of unconsumed carbon and burning nearly or absolutely smokelessly and without substantial softening.

1,678,380. DYNAMO-ELECTRIC MACHINE. THOMAS LANCELOT REED COOPER, London, England. Filed July 20, 1925, Serial No. 44,688, and in Great Britain July 25, 1924. 9 Claims. (Cl. 171—252.)

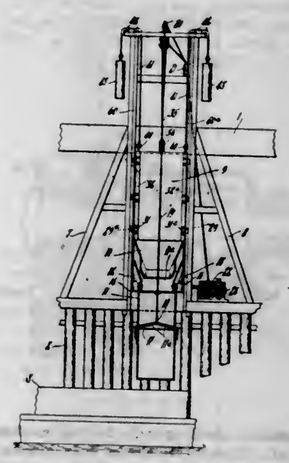


2. Dynamo-electric machine comprising in combination a rotor and a stator element, and a fluid-tight chamber for the stator windings consisting of a hard insulating material completely enclosing the back and ends of the stator laminæ and lining the stator slots.

1,678,381. PRODUCTION OF COMMERCIAL BORAX FROM $Na_2O.2B_2O_3.4H_2O$. THOMAS M. CRAMER, Long Beach, Calif., assignor to Pacific Coast Borax Company, a Corporation of Nevada. Filed Jan. 12, 1927. Serial No. 160,778. 5 Claims. (Cl. 23—41.)

1. In the production of commercial borax from a natural-occurring sodium borate which resists solution, a method which includes: subjecting said mineral to a temperature sufficient to render the mineral less resistant to solution in water, dissolving the same in a watery medium; and crystallizing a commercial borax from the resultant solution.

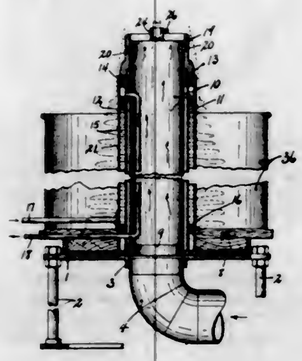
1,678,382. MATERIAL-HANDLING DEVICE. JOSEPH DAW, Quebec, Quebec, Canada, assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Feb. 9, 1926. Serial No. 87,139. 3 Claims. (Cl. 193—16.)



1. A device for loading material by gravity into a conveyance position adjacent thereto, comprising a shaft having a wall which constitutes a bunter plate, a hopper

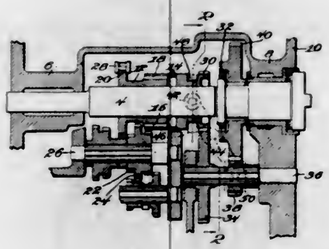
supported by said bunter plate and arranged to receive the material discharged from said shaft, a laterally swingable chute into which said material is fed from said hopper and supported by said bunter plate, and means for raising and lowering said bunter plate.

1,678,383. DRYING MACHINE. JOSEPH A. FIRSCHING, Utica, N. Y. Filed Sept. 29, 1925. Serial No. 59,434. 3 Claims. (Cl. 26—56.)



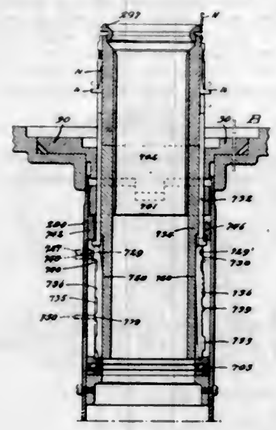
1. A drying machine for tubular fabric comprising a tube along the exterior of which the fabric is adapted to be drawn, an air chamber surrounding the tube, a water jacket surrounding the air chamber, means for supplying a drying fluid to one end of the tube, and a spreader mechanism at the opposite end of the tube over which the fabric is adapted to be drawn and which permits the drying fluid to contact with and escape through the fabric.

1,678,384. VARIABLE-SPEED DRIVING MECHANISM. BENJAMIN P. GRAVES, Cranston, R. I., assignor to Brown and Sharpe Manufacturing Company, a Corporation of Rhode Island. Filed Jan. 4, 1927. Serial No. 158,889. 6 Claims. (Cl. 74—57.)



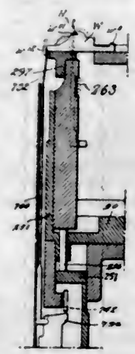
1. In a variable speed spindle driving mechanism, the combination of a spindle, a sleeve gear loosely mounted directly on the spindle, a second sleeve gear loosely mounted directly on the spindle and permanently splined to the first sleeve gear in driving relation thereto, back gearing for driving the spindle from one of the sleeve gears and means for disconnecting the back gearing and for connecting said sleeve gear directly to the spindle.

1,678,385. CIRCULAR-KNITTING MACHINE. IVAN W. GROTHEY, Laconia, N. H., assignor to Scott & Williams, Incorporated, New York, N. Y., a Corporation of Massachusetts. Filed Dec. 22, 1926. Serial No. 156,458. 14 Claims. (Cl. 66—50.)



1. A circular knitting machine having a needle cylinder and a circle of knitting elements therewith, in combination with pattern jacks for said knitting elements adapted to be selected by rocking on a point intermediate their ends, each jack having a butt on either side of its rocking point, and cam means to operate on said butts.

1,678,386. DROP-STITCH MECHANISM FOR KNITTING MACHINES. IVAN W. GROTHEY, Laconia, N. H., assignor to Scott & Williams, Incorporated, New York, N. Y., a Corporation of Massachusetts. Filed Dec. 24, 1926. Serial No. 156,972. 5 Claims. (Cl. 66—50.)

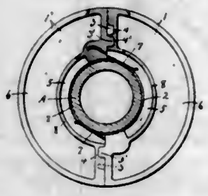


1. A circular knitting machine having a needle cylinder, a series of sinkers therein and a series of jack means each associated with a sinker and adapted to rock said sinker for the purpose of forming a drop stitch, said series of jack means including pattern jacks having butts on different levels in combination with a jack selector cam and a pattern wheel adapted to move said selector cam directly from one position to another within the range of butt levels.

1,678,387. BRIQUETTE AND PROCESS FOR PRODUCING IT. ROBERT MARION HALE, New York, N. Y., assignor to Minerals Separation North American Corporation, New York, N. Y., a Corporation of Maryland. Filed Apr. 30, 1926. Serial No. 105,627. 24 Claims. (Cl. 44—16.)

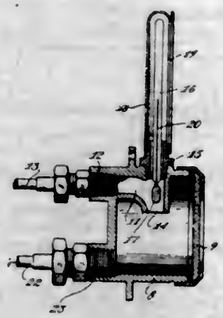
1. A briquette consisting of coal finer than 20-mesh bound by a binder which contains a considerable proportion of oil and also a considerable proportion of sulphite cellulose residues and contains substantially no added inorganic substance.

1,678,388. COMBINATION FLOOR AND CEILING PLATE. JOSEPH B. HOLDEN, Canastota, N. Y. Filed Oct. 4, 1927. Serial No. 223,908. 5 Claims. (Cl. 126—317.)



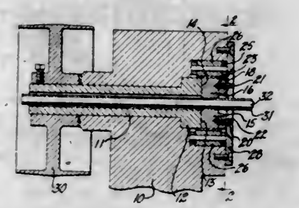
1. A floor or wall plate composed of half sections identical in construction and adapted to be placed around and upon a pipe, each section having a yielding member adapted to frictionally engage the periphery of the pipe when the sections are assembled thereon, each section having one of its end faces provided with a plurality of lugs in different planes at right angles to the axis of the plate and its other end face provided with a corresponding number of recesses complementary to the lugs and in different planes corresponding to the planes of the lugs, each lug and its corresponding recess in the same plane being equal distances from said axis.

1,678,389. OIL THERMOMETER. ARTHUR HOLMES, Newark, N. J., assignor to The Holmes Automobile Company, Canton, Ohio, a Corporation of Ohio. Filed Aug. 16, 1920, Serial No. 403,747. Renewed June 8, 1928. 3 Claims. (Cl. 73—52.)



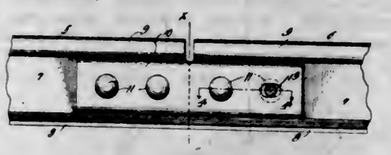
1. A casing having an upper inlet port and a lower drainage chamber and outlet port for a circulating liquid, and a thermometer having its bulb above the drainage chamber and at the mouth of the inlet port in position to be bodily impinged by inflowing liquid, the drainage chamber being relatively large and deep as compared with the thermometer bulb.

1,678,390. METHOD OF WORKING FIBROUS MATERIAL. WILLIAM FULLER HOSFORD, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 28, 1927. Serial No. 171,672. 6 Claims. (Cl. 92—55.)



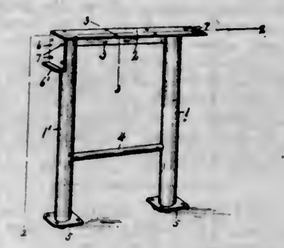
1. A method of working fibrous material on a core, which comprises swaging the fibrous material.

1,678,391. RAIL-JOINT. JOHN M. HUFFT, Tucson, Ariz. Filed July 17, 1925. Serial No. 44,269. 6 Claims. (Cl. 238—151.)



1. In a rail joint, a pair of meeting rail sections having their adjacent ends formed with the web and base portions thereof projecting slightly beyond the tread portions of the same, and means connecting the adjacent ends of said rail sections for permitting relative longitudinal movement of the same.

1,678,392. BENCH LEG. HENRY B. HURSH, CARL J. ANDERSON, and WILLIAM M. BARTELS, Syracuse, N. Y. Filed Apr. 26, 1926. Serial No. 104,668. 2 Claims. (Cl. 45—31.)

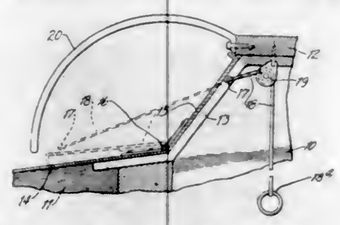


1. A bench leg comprising a pair of upright tubular posts, a flat top plate welded flatwise against the upper end faces of the posts and provided at its rear end with a downwardly projecting flange engaged with the outer side face of the adjacent post, said flange having its lower end provided with a rearwardly projecting ledge for supporting a back board.

1,678,393. POULTRY-CAR VENTILATOR. WALDO P. JOHNSON, Chicago, Ill. Filed Jan. 30, 1928. Serial No. 250,479. 2 Claims. (Cl. 98—6.)

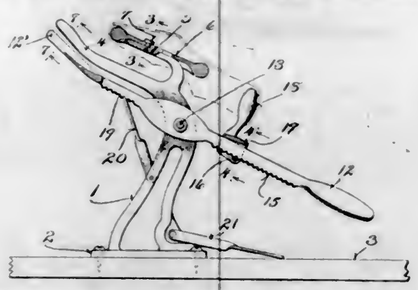
1. A ventilated car roof having a longitudinal opening in its center, saddle irons extending across said longitudinal opening at intervals and supporting a running board in elevated position above the car roof; ventilating

doors hinged to the car roof adjacent said opening and adapted to be swung from open position on said roof to closed position against said saddle irons; means for closing said doors from inside of the car, said means including a flexible member having one end attached to the



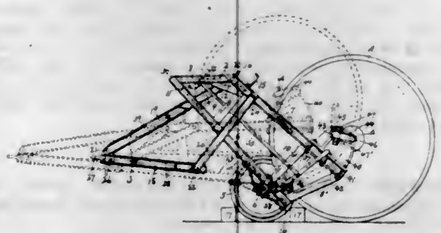
door, thence passing over a pulley mounted on the underside of the running board, the other end of said flexible member hanging within reach of an attendant in the car; and a curved guard member mounted above said door, one end of said guard member being attached to said running board.

1,678,394. COMBINATION SHOE FLEXOR AND STRETCHER. WILLIAM J. KAPPEL, Milwaukee, Wis., assignor to Marcus Sax and Isadore Sax, Copartners doing business as Sax Bros., Milwaukee, Wis. Filed Sept. 16, 1927. Serial No. 219,931. 1 Claim. (Cl. 12—129.2.)



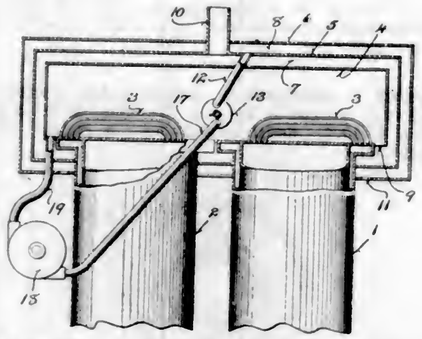
A combined shoe flexing and stretching device comprising a standard having a forwardly projecting arm and having an upper spaced arm, a toe engaging portion carried by said upper arm, a hand-lever pivoted to the standard, an adjustably mounted heel engaging portion carried by said hand-lever, said hand-lever having a handle at one end and having a pair of spaced arms adjacent its other end positioned in proximity to the first mentioned arm of said standard, and means for locking said hand-lever in any desired position.

1,678,395. SELF-LOADING TRAILER. EDGAR E. KELLEMS, Syracuse, N. Y. Filed Jan. 11, 1927. Serial No. 160,378. 6 Claims. (Cl. 214—65.)



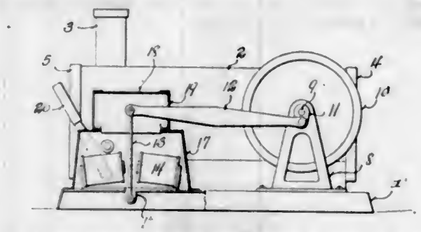
1. A two-wheel trailer having a body tiltable about the axis of the wheels a draft bar movable endwise relatively to the body, a link pivotally connected to the rear end of the draft bar and to the body, and an additional link pivotally connected to the front end of the draft bar and to the body some distance in front of the first-named link.

1,678,396. HEATER FOR HOT-AIR ENGINES. JOSEPH KOENIG, Manitowoc, Wis. Filed Mar. 17, 1926. Serial No. 95,357. 3 Claims. (Cl. 60—24.)



2. In a device of the class described, the combination of an air conditioning cylinder having hot tubes at one end, an inner casing surrounding such hot tubes, an intermediate casing surrounding the inner casing and spaced therefrom, said inner casing communicating freely with the space between such casing and the intermediate casing, a vent pipe opening outwardly from the intermediate casing, an outer casing surrounding said intermediate casing and having air entrance apertures therein, a burner supplied with preheated air by means of a pipe opening through the intermediate casing into the space between the intermediate and outer casing having a blower adapted to suck the products of combustion from the intermediate casing and return them in proximity to the burner, whereby a rapid circulation of the products of combustion is assured.

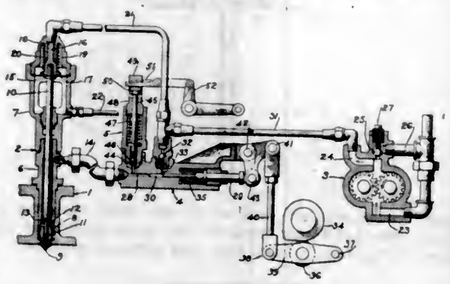
1,678,397. TOY ELECTRIC ENGINE. JOSEPH KOENIG, Manitowoc, Wis., assignor to Metal Ware Corporation, Two Rivers, Wis. Filed Sept. 16, 1927. Serial No. 219,965. 4 Claims. (Cl. 46—49.)



1. A toy electric engine comprising a base, a battery casing carried by the base and simulating a boiler, electromagnets, an armature operated by said electromagnets, a rotary shaft provided with a fly-wheel and a crank, said crank being connected to said armature by means of a link, switch mechanism controlled by said shaft for alternately turning on and off the current to the electromagnets, and a removable battery carried by said battery casing for supplying said magnets.

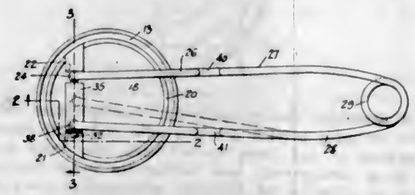
1,678,398. FUEL NOZZLE AND CONTROL. EDWARD C. LANGE, Mill Valley, Calif. Filed Sept. 13, 1924. Serial No. 737,583. 3 Claims. (Cl. 123—139.)

1. A fuel nozzle and control therefor comprising the combination of a spray valve including an orifice and a cooperating plunger, a fuel chamber adjacent the plunger and orifice, a fluid chamber adjacent another portion of the plunger, fluid pressure in the first chamber normally acting on the plunger to withdraw the same from the orifice and fluid pressure in the second chamber normally acting on the plunger in the opposite direction, means



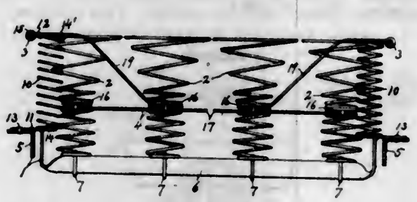
providing a conduit to the first chamber, and means for forcing fuel through the conduit and into the first chamber, the plunger operating area in the first chamber being several times smaller than that in the second chamber whereby a high fuel pressure is required in the first chamber to lift the plunger from the orifice.

1,678,399. COVER FOR CANS. CHARLES F. LARSEN, New York, N. Y. Filed Nov. 27, 1926. Serial No. 151,109. 5 Claims. (Cl. 67—10.1.)



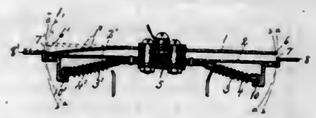
1. A can having a removable cover, an igniting device fastened to the cover, a lever projecting from the said cover adapted to remove the cover entirely from the can, and means optionally coacting with the said lever to operate the said igniting device.

1,678,400. SPRING CUSHION. WILLIAM LEWIS, Utica, N. Y. Filed Apr. 2, 1926. Serial No. 99,261. 3 Claims. (Cl. 5—252.)



1. In a spring cushion of the character described, a lower deck, a series of coiled springs mounted on the lower deck in parallel lengthwise rows and also in parallel transverse rows, a floating deck mounted upon the intermediate portions of said springs, braces extending upwardly and outwardly from the intermediate portion of the deck between some of the adjacent transverse rows of the springs, and supplemental springs interposed between the upper ends of said braces and the lower deck.

1,678,401. ELECTROTHERMOSTATIC SWITCH. NICHOLAS J. LUTTRELL, Liverpool, N. Y. Filed Dec. 24, 1925. Serial No. 77,491. 4 Claims. (Cl. 200—122.)



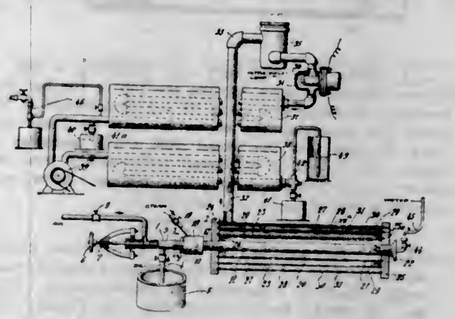
1. An electric switch comprising two flat spring terminals normally supported at one end in parallel spaced relation and having their other ends extending in the same direction and free to yield transversely under pressure of one against the other in the same direction, one of said terminals having a shoulder offset toward the other terminal, the end of said other terminal being extended slightly beyond the shoulder to abut against said shoulder and thereby to automatically hold the terminals in electrical contact when the pressure is released.

1,678,402. AUDIBLE SPEED INDICATOR. KARL GUNNAR MAGNI, Linkoping, Sweden, assignor to Aktiebolaget Baltic, Stockholm, Sweden. Filed Feb. 18, 1927, Serial No. 169,391, and in Sweden Feb. 22, 1926. 7 Claims. (Cl. 116—74.)



1. A speed indicator provided with a sound emitting member, a rotary member, and a pendulum actuated by impulses dependent upon the rotation of said rotary members the number of revolutions of which is to be indicated, said pendulum being swingably suspended on the member which imparts impulses to the same, and means acted upon by the pendulum to cause the sound emitting member to give an audible signal at a predetermined oscillation of the pendulum.

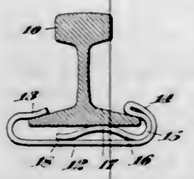
1,678,403. PROCESS FOR THE PRODUCTION OF OXIDIZED PRODUCTS. RHETHERFORD B. MARTIN, New York, N. Y., assignor to Minerals Separation North American Corporation, New York, N. Y., a Corporation of Maryland. Filed Oct. 30, 1920. Serial No. 420,808. 20 Claims. (Cl. 260—138.)



1. The process which includes passing a continuous stream of hydrocarbons in vapor form mixed with oxygen past a source of ultra-violet light to produce com-

pounds containing carbon combined with both oxygen and hydrogen, and condensing the condensable part of the product.

1,678,404. RAIL ANCHOR. GEORGE LOOP MOORE and JAMES ROBERT STEELE, Owego, N. Y. Filed Mar. 28, 1927. Serial No. 178,924. 10 Claims. (Cl. 238—330.)

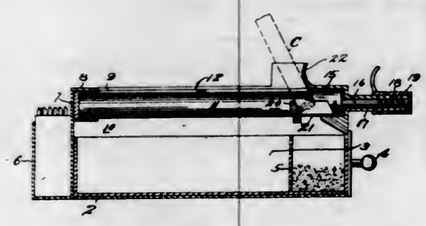


3. A single-piece rail anchor comprising an under rail portion, a pair of hook end portions adapted to engage with the upper surface of a rail base, and a spring bar portion bent upwardly from the under rail portion adapted to engage the underside of the rail and having a free end supported on said under rail portion.

1,678,405. PROCESS FOR RENDERING GAS-ABSORBENT BODIES AIR-TIGHT IN LIQUIDS. RENÉ OPPENHEIM, Levallois-Perret, France, assignor to Société Anonyme le Carbone, Levallois-Perret, France. Filed Apr. 18, 1925. Serial No. 24,234, and in France June 3, 1924. 5 Claims. (Cl. 136—122.)

1. A process for rendering porous bodies impervious to liquids, and particularly the porous bodies of the electrodes of certain types of electric batteries, electrolyzers or accumulators, which process consists in fixing on the porous body a strongly adhering sheath or mass of air or gas prior to use.

1,678,406. BUTT-EXTINGUISHER AND TRAY. HANS RUE, Los Angeles, Calif. Filed Nov. 21, 1927. Serial No. 234,688. 4 Claims. (Cl. 131—51.)



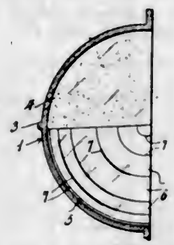
4. A safety ash and butt tray including a box, a drawer therein, a barrel closing the top of the box and having a receiving slot along its top, and means in the barrel for quenching fire of an inserted butt and toppling the butt into the barrel said means operative to rotate the barrel to discharge its contents into the drawer; said drawer having an ash pit below said quenching means.

1,678,407. THERMOSTAT. JOHN A. SPENCER, Revere, Mass., assignor to Spencer Thermostat Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Nov. 10, 1923. Serial No. 673,960. 10 Claims. (Cl. 297—14.)

1. A thermostatic device comprising an elastic sheet having a dent therein, thermostatically operated means for flexing a portion of the dent in the direction opposite to the dent flexure, said dent having such depth and elasticity that said flexing sets up internal stresses which, when the flexing reaches a predetermined magnitude, cause another portion of the sheet abruptly to move into a different position, the latter portion of the sheet being free to snap into said different position.

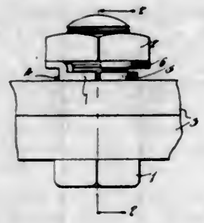


1,678,408. HEADLIGHT LENS. CHARLES H. TUMEY, Sr., San Antonio, Tex. Filed Mar. 4, 1926. Serial No. 92,204. 2 Claims. (Cl. 240—48.4.)



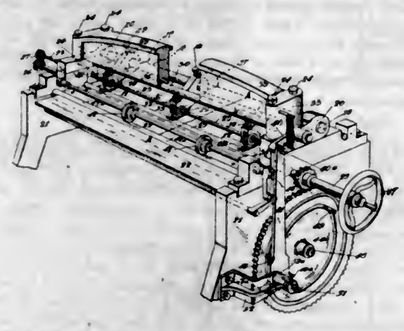
1. A headlight lens, comprising a hemispherical body having its upper portion provided with means to retard the passage of light rays therethrough, the lower portion being transparent, and having its inner surface formed in a series of parallel transversely concaved bands forming ridges therebetween, said ridges being arranged on vertical planes, and the band arranged in the middle of the lower portion being wider than the bands on either side thereof and adapted to direct light rays in front of the lens, said concaved bands on the sides of the middle band being adapted to deflect light rays towards the sides of the lens.

1,678,409. LOCK WASHER. ERNEST WARD, Independence, Mo. Filed Nov. 11, 1926. Serial No. 147,767. 1 Claim. (Cl. 151—38.)



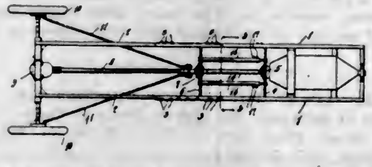
A lock washer comprising a split elastic annular member internally screw threaded and provided with a lug extending radially outward from one end thereof, and a second split elastic annular member having an internal diameter greater than the external diameter of said first member, and having an angular terminal connected to said lug outwardly beyond said first member.

1,678,410. MACHINE FOR PREPARING PAPER TO ENABLE PORTIONS TO BE EASILY DETACHED. WILLIAM WALTER WARRINGTON, Summer Hill, New South Wales, Australia. Filed Dec. 17, 1925, Serial No. 76,068, and in Australia Aug. 6, 1925. 7 Claims. (Cl. 92—68.)



1. A machine for the purpose herein described, comprising a driven shaft, a plurality of wheels mounted thereon and having peripheral teeth, a rotatable anvil mounted in bearings below and axially in the same vertical plane with the driven shaft, adjustable means for maintaining the toothed wheels at a predetermined distance from the rotatable anvil, means whereby the driven shaft and rotatable anvil may be driven in opposite direction so that the wheels upon the driven shaft and the rotatable anvil will travel at the same peripheral speed and means for feeding the paper between the toothed wheels and the rotatable anvil.

1,678,411. EXTENSIBLE CHASSIS FOR AUTOMOBILES. ENNES L. WESTMORELAND, Ogden, Utah. Filed Dec. 31, 1926. Serial No. 158,238. 3 Claims. (Cl. 180—1.)



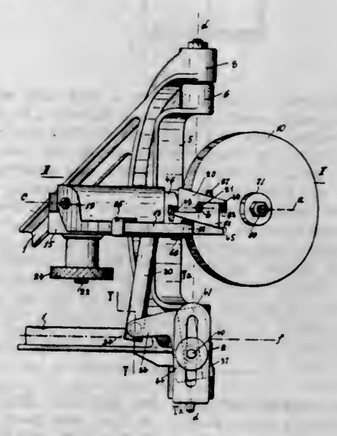
1. An extensible frame for automobiles, comprising front and rear frame sections, side members of said frame sections formed of channel beams, the channel beams of one section slidable within the channel beams of the other section, a cross beam engaging each section, sections of a telescoping shaft engaging the cross beams, and telescoping bracing members engaging said cross beams.

1,678,412. FUSE PLUG. HARRY J. WHEELER, Kansas City, Mo. Filed Jan. 16, 1926. Serial No. 81,820. 1 Claim. (Cl. 200—130.)



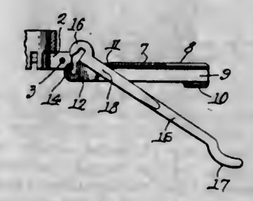
In a fuse plug, a socket engaging member comprising a solid body of insulation having a bore in its upper end face forming a fuse receiving chamber and in its lower end face two bores forming terminal housings having communication with opposite sides of said chamber, a threaded metallic sleeve encompassing said body and having a terminal extending through one of said housings to one side of said chamber, a terminal secured to the lower end face of said body and extending through the other one of said housings to the opposite side of said chamber, and a fuse carrying member fitted to the said socket engaging member and comprising a solid insulator body having a central projecting portion guidingly depending in the chamber in said socket engaging member provided in its end face with a fuse receiving limiting groove having therein an elongated fuse element connecting said terminals and supported by a lever pivotally mounted on the end face of the depending portion of the fuse carrying member.

1,678,413. GRINDING MACHINE. ALEXANDER ZÄHRINGER, Stuttgart, Germany. Filed Dec. 22, 1926, Serial No. 156,366, and in Germany Dec. 28, 1925. 4 Claims. (Cl. 51—219.)



1. Machine for grinding spiral drills comprising a frame, a grinding wheel carried in said frame, a bracket pivotally connected to said frame, and adapted to rock about an axis which coincides with the face of the grinding wheel, a support for the drill to be ground secured on said bracket and comprising a hinged flap, the axis of said hinge extending at an angle to the face of the grinding wheel, a chuck for the drill to be ground adapted to be attached to said flap, and mechanism connecting said hinged flap with said bracket so as to impart rocking motion to said bracket when said flap is turned about its hinge.

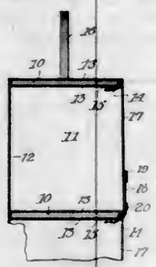
1,678,414. UMBRELLA. AMBROSE A. ZWIEBEL, Wilkes-Barre, Pa. Filed Feb. 3, 1927. Serial No. 165,626. 1 Claim. (Cl. 135—31.)



In a device of the class described, a trough-shaped socket and a retainer bar, the socket and the bar having oppositely facing hooks, the socket being provided with a

longitudinal slot through which the hooked end of the retainer bar extends, whereby the socket and the retainer bar may be disposed in crossed relation and closed together, like a pair of pliers, to cause the hooks to cooperate in forming a pivot eye, the socket being provided with means for engaging the retainer bar to hold the retainer bar within the socket.

1,678,415. COLLAPSIBLE SHOE CABINET. MARTHA W. AHLES, Chicago, Ill. Filed Oct. 30, 1926. Serial No. 145,173. 2 Claims. (Cl. 312—6.)

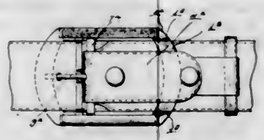


1. A collapsible cabinet having a back and sides of flexible material, sheaths of flexible material and similar in size forming ends and partitions dividing the cabinet into a plurality of compartments, all of the sheaths at their ends being secured to said sides, said sheaths being closed at the rear and having an insert opening at the front, stiff partition members similar in size insertible through said openings into the sheaths to form stiff ends and partitions, said partition members being removable to permit the flexible material to be washed, an individual curtain of flexible material for each compartment secured adjacent the front edge of the sheath at the top thereof, the lower edges of the curtains overlapping the upper edges of adjacent curtains opposite each partition.

1,678,416. MANUFACTURE OF METHYL EUGENOL. WILLIAM GUY ANDREWARTHA, Sydney, New South Wales, Australia. Filed Oct. 20, 1927, Serial No. 227,627, and in Australia Dec. 29, 1926. 2 Claims. (Cl. 260—150.)

1. The herein described manufacture of methyl-eugenol, which consists in subjecting the mill waste and toppings of Huon pine timber to the action of steam under pressure in a closed vessel for a period within about two hours educting and condensing the vapor, and separating water in the condensate from the product.

1,678,417. BELT BUCKLE. ALWIN H. BECK, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Filed Apr. 25, 1925. Serial No. 25,912. 10 Claims. (Cl. 24—188.)

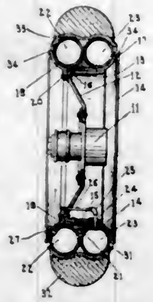


1. A buckle comprising a frame having spring casings extending along opposite sides thereof and formed with longitudinally extending slots, coil springs arranged in said casings, and a belt anchoring member extending between said spring casings having portions extending through the slots and also having enlarged portions within the casings, engaging the ends of the springs and greater in thickness than the width of the slots so as to secure the belt anchoring member to the frame and means for securing the other end of the belt to the buckle frame.

1,678,418. PROCESS FOR TREATING SEEDS TO AUGMENT THEIR CULTURAL VALUE. ALEXANDER CARR BENNETT, Fairfield, New South Wales, Australia. Filed Dec. 15, 1926, Serial No. 155,115, and in Australia Mar. 26, 1926. 1 Claim. (Cl. 47—58.)

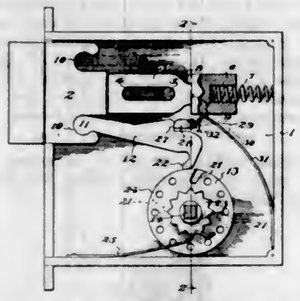
A process of augmenting the cultural value of agricultural seeds, which consists in soaking them in water, spreading them while damp in a layer upon an earthed plate and rolling over them for a period of 5 to 15 minutes more or less, a vacuum tube which is connected to a source of high frequency electrical current, substantially as described.

1,678,419. COMBINATION SOLID AND PNEUMATIC TIRE. MELVIN BOWDAN, Los Angeles, Calif. Filed June 29, 1927. Serial No. 202,237. 1 Claim. (Cl. 152—33.)



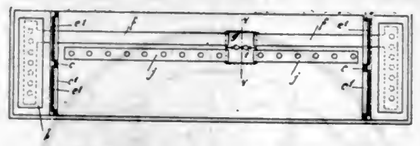
A wheel having a felly with a section cylindrical in the transverse direction of the wheel, said felly having flanges, a pair of single tube pneumatic tires circular in cross section when inflated, there being an annular wedge-shaped structure secured to the felly and fitting in the space between the felly and the tires, a solid rim having a plurality of annular curved surfaces, said surfaces being concave on their inner sides considered in a radial section, and a solid rubber tire secured to said rim.

1,678,420. LOCK. ROY E. BROWN, Portland, Oreg., assignor of forty-nine per cent to Percy C. Caffee, Portland, Oreg. Filed July 27, 1927. Serial No. 208,854. 5 Claims. (Cl. 70—53.)



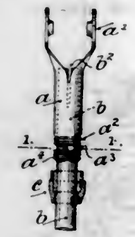
1. In a lock, the combination of a bolt, a drawbar connected therewith, a plurality of tumblers disposed below the drawbar and arranged to be engaged thereby, a knob spindle, a hub member fixed to the outer tumbler and engaged with the knob spindle whereby to rotate therewith, a bushing fitted around said hub member and held against rotation, the intermediate and outer tumblers being loosely mounted upon said bushing, a ratch fixed to the outer face of the outer tumbler, and a detent engaging said ratchet disk.

1,678,421. REFRIGERATOR CAR. HENRI CORBLIN, Paris, France. Filed May 9, 1927, Serial No. 190,026, and in France May 14, 1926. 2 Claims. (Cl. 62—24.)



1. A refrigerator car comprising ice-containers arranged at the ends of the car, transverse partitions adjacent said ice containers extending upwardly from the car floor and terminating short of the roof thereof, apertures at the bottom of said partitions adapted to allow of natural circulation of air between the end and middle portions of the car, shutters slidably mounted upon said partitions and adapted to close said bottom apertures, a rotary fan driven by an axle of said car for forced circulation of air, air casings between said middle portions of said car and the vicinity of said ice-containers, and enclosing said rotary fan, and means for automatically moving said shutters to their aperture-closing position as soon as the speed of travel of the train reaches a predetermined rate and for automatically moving said shutters to their aperture-uncovering position during stoppage of the car.

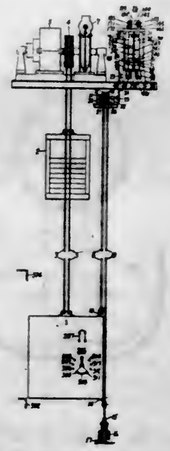
1,678,422. MOVABLE SUPPORT FOR ELECTRIC LIGHT, GAS AND OTHER PURPOSES. JOHN DUGDILL, Hazel Grove, near Stockport, England. Filed Feb. 21, 1928, Serial No. 620,550, and in Great Britain May 13, 1922. 1 Claim. (Cl. 247—31.)



A light fixture support comprising an outer tube having a forked extremity at one end and threaded at the opposite end, an inner tube frictionally fitting within the outer tube to permit resisted relative rotation of the tubes, the inner tube extending beyond the threaded end of the outer tube, a pin projecting from the inner tube and seating in a circumferentially disposed slot formed in the threaded portion of the outer tube, the length of the slot being less than the circumferential length of the treaded portion to thereby limit the relative rotative movements of the tubes, and a ferrule having a sliding fit on the inner tube and interiorly threaded to cooperate with the threaded portion of the outer tube in both directions beyond the slot therein, whereby the slot and pin connection of the tubes is completely covered by the ferrule and the latter acts to connect the portions of the outer tube in both directions beyond the slot to thereby reinforce the outer tube in the slotted area.

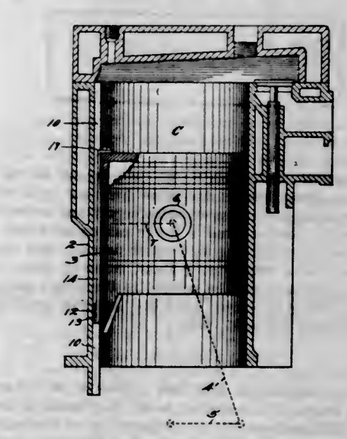
1,678,423. LEVELING DEVICE FOR ELEVATORS. EDWARD L. DUNN, East Orange, N. J., assignor to Otis Elevator Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 6, 1926. Serial No. 146,686. 18 Claims. (Cl. 187—29.)

5. In an elevator system, an elevator car; car actuating and stopping mechanism; and a device, comprising a plurality of spaced cams, one for each of a plurality of landings, said cams being rotatable about a common axis and at a speed proportional to the speed of the car, a pair of followers for cooperating with the cams, said followers being movable in a direction parallel to the axis of rotation of the cams and at a speed proportional to that of the car, a pair of operating rods, one for each follower, each of said followers being arranged to slide on its operating rod, means acting through said operating rods



for biasing the followers into cooperating position with the cams, means acting through said operating rods for moving the followers out of cooperating position with the cams against the action of the biasing means, and switching mechanism operated by movement of the cams acting acting through the followers and operating rods, when the followers are in their cooperating position with the cams, for causing the car actuating and stopping mechanism to bring the car to a stop level with the respective landings.

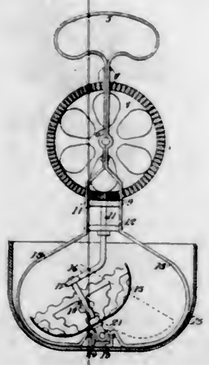
1,678,424. COUNTERTHRUST PRESSURE MOTOR. CLARENCE G. EDWARDS, Los Angeles, Calif. Filed May 24, 1926. Serial No. 111,297. 13 Claims. (Cl. 74—108.)



1. A trunk-piston motor having a cylinder part and a piston part, the former of which has a motive fluid canal disposed at a side of the piston and opening at one end

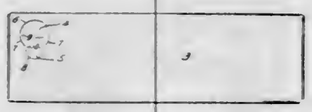
into the combustion chamber of the motor and means on the piston to form a closure across and working in the canal.

1,678,425. AGITATOR. WILSON R. ELLIS, Berkeley, Calif. Filed May 24, 1926. Serial No. 111,362. 4 Claims. (Cl. 259—126.)



1. A device of the character described comprising a shank, a gear mechanism connected thereto, a frame including side arms connected to said shank and a base, a shaft rotatably mounted in said shank, a perforated cup-shaped beater element offset with relation to said shaft and rotatable therewith, and a universal joint connection between the base of the frame and said beater element whereby upon actuation of said gear mechanism a beating movement will be imparted to said beater element.

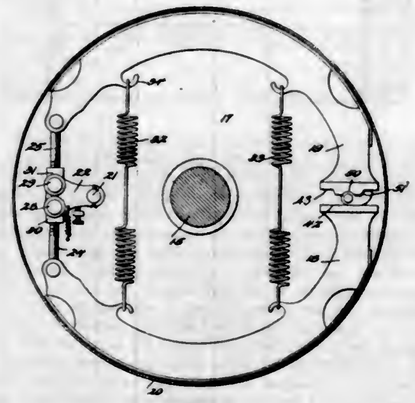
1,678,426. CARTON KNOCK-OUT. HERBERT D. FIELD, Los Angeles, Calif., assignor of one-half to Robert C. McCrystal, Los Angeles, Calif. Filed Aug 8, 1925. Serial No. 49,064. 1 Claim. (Cl. 229—7.)



A dispensing carton having an area in one of its walls defined by discontinuous incisions forming a door, said area consisting of an upper relatively large nearly complete circular portion, and a lower relatively small semi-circular portion adjoining said upper portion, said portions being uncut on a line joining them, forming links, whereby inward pressure may be applied to the larger portion to cause the same to swing inwardly and the smaller portion outwardly on said links.

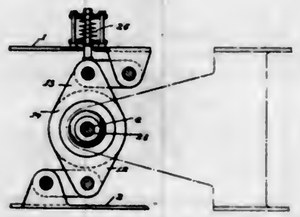
1,678,427. VEHICLE BRAKE. EDWIN B. FLANIGAN, Wilkes-Barre, Pa., assignor to E. B. Flanigan, Incorporated, Wilkes-Barre, Pa., a Corporation of Pennsylvania. Filed Sept. 20, 1924. Serial No. 738,818. Renewed June 8, 1928. 13 Claims. (Cl. 188—78.)

1. Brake mechanisms of the internal expanding type including in combination, a rotatable brake drum, a pair of brake shoes, a relatively stationary brake spider, a link pivoted to said spider to swing in the plane of said shoes,



link means connecting one end of each shoe to said first mentioned link, and means to separate the opposite ends of said shoes.

1,678,428. ARTICULATED COUPLING FOR RIGID-FRAME UNITS. ATTILIO FRANCO, Milan, Italy. Filed Feb. 11, 1925, Serial No. 8,589, and in Italy Feb. 11, 1924. 3 Claims. (Cl. 213—3.)

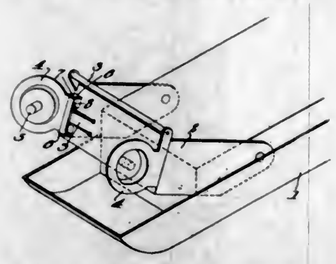


1. A coupling for rigid frame units comprising, two coupling members adapted to be detachably connected together, means for attaching one of said coupling members to one rigid frame unit, and means for movably connecting the other coupling member to the other rigid frame unit, such movable connecting means comprising pivoted links connected to said coupling member and to the opposite sides of the rigid frame unit, the arrangement of said pivoted links being such that the force applied to the links on one side of said frame is equal in amount, identical in direction, and opposite in application to the force applied to the links on the opposite side of said frame.

1,678,429. ORGANIC GOLD COMPOUNDS AND PROCESS OF MAKING SAME. ALPHONSE GAMS and PAUL SCHEIDEGGER, Basel, Switzerland, assignors to the Firm Society of Chemical Industry in Basle, Basel, Switzerland. Filed July 14, 1927, Serial No. 205,840, and in Switzerland Aug. 25, 1926. 12 Claims. (Cl. 260—11.)

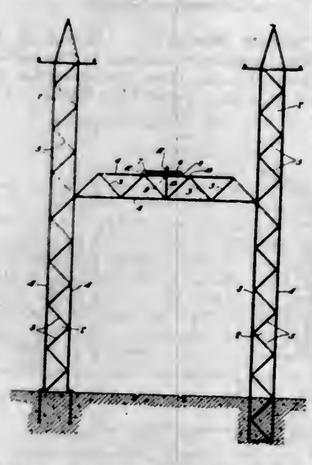
1. A process for the production of stable complex gold compounds of nucleic acids by reacting with a gold compound upon a water soluble nucleate.

1,678,430. SPOOL HOLDER FOR FILM CAMERAS. LEO GOLDHAMMER, Munich, Germany, assignor to A. Hch. Rietzschel G. m. b. H., Munich, Germany. Filed Sept. 16, 1926, Serial No. 135,919, and in Germany Dec. 11, 1925. 6 Claims. (Cl. 242—71.)



3. In a film camera of the type in which a spool support is pivotally mounted on the case for movement into position outside of said case, a spool support comprising a bridge-shape member having end plates for pivotally supporting the opposite ends of a film spool, one of said plates being pivotally mounted on said support, and spring means operative only when said pivoted end plate is in approximately normal spool-holding position for yieldingly retaining said pivoted end plate in said normal position.

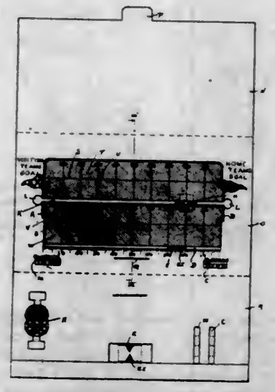
1,678,431. OVERHEAD SUPPORT. CHAUNCEY MARSH GOODRICH, Windsor, Ontario, Canada. Filed Jan. 5, 1926. Serial No. 79,362. 2 Claims. (Cl. 189—33.)



1. A support for the overhead system of electric railways comprising the combination with a pair of spaced vertical metal supports and a horizontal metal truss member extending between and secured to said supports, said truss member being of substantially triangular cross-section and having a single inverted V-shaped top chord of a plurality of connector brackets secured to and projecting above said top chord, and an elongated impregnated wooden insulator block secured to said brackets and extending in a plane parallel with and entirely above said top chord.

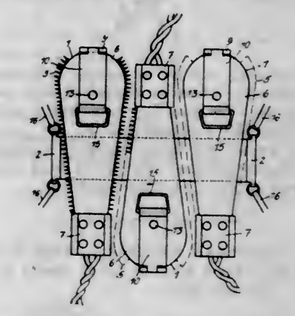
1,678,432. GAME DEVICE. ALFRED B. HASLACHER, Farmington, Calif. Filed Sept. 3, 1927. Serial No. 217,435. 4 Claims. (Cl. 116—120.)

1. A game indicating device comprising a cardboard surface having a portion ruled to simulate a field on which a game is being played, a graduated longitudinal slot traversing said field, a second slot parallel with the first named slot and spaced therefrom, an indicator adapted to slide in said first named slot and a flag indicator adapted to slide in said second named slot, an



extended portion of said surface on two opposite sides of said ruled portion and adapted to fold over and protect said ruled portion or to fold backwards and be secured to form a backing for said slidable indicators.

1,678,433. HAIR-UNDULATING APPARATUS. LEONORE FREDERIKA CLARA CORNELIA WILHELMINA HEDBERG, née ILSE, Stockholm, Sweden. Filed July 19, 1926, Serial No. 123,350, and in Sweden June 10, 1925 (abandoned). 3 Claims. (Cl. 132—32.)

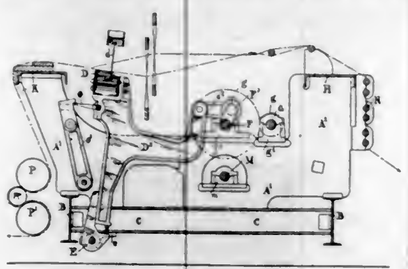


1. A hair undulating apparatus comprising a plurality of cup-shaped moulds and mandrels of corresponding configuration adapted to be inserted in said moulds, said moulds and mandrels being reduced at one end and arranged with the large and small ends alternately at opposite sides of said apparatus, and independent heating means on each mould.

1,678,434. LOOM FOR WEAVING. JOHN HENRY HINDLE and THOMAS HINDLE, Haslingden, England. Filed Sept. 30, 1925, Serial No. 59,736, and in Great Britain Dec. 17, 1924. 2 Claims. (Cl. 139—190.)

1. In a loom constructed with a slay and end swords attached thereto, breast and back beams and a plurality of intermediate slay swords attached to the slay the combination of a plurality of transverse intermediate frames mounted in pairs to support the parts of the loom spanning the front and back beams, one frame being adjacent to each side of each intermediate slay sword, a crank shaft positioned well up in the loom immediately

below the warp threads, a plurality of intermediate cranks on the crank shaft to push the slay swords from the back beam simultaneously so that the thrust in beating up is sustained by the back beam placing the inter-



mediate frames in compression and a plurality of bearings in pairs supported by the transverse frames one bearing being on each side of each crank to support the crank shaft, gears to drive the crank shaft and a knocking off dagger and lever for each intermediate slay sword.

1,678,435. SELF-CONTAINED LATTICEWORK. EMIL MORITZ HÜNNEBECK, Hosel, Germany. Filed Aug. 17, 1925, Serial No. 50,785, and in Germany Aug. 19, 1924. 3 Claims. (Cl. 20—15.)



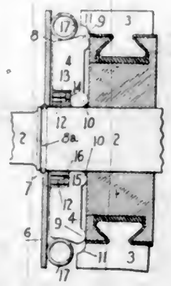
1. Self-supporting lattice in space, comprising strips having considerable width as compared with their thickness, and in the direction of their width extending in planes substantially perpendicular to the plane of the lattice as a whole, said strips being so arranged at the points of intersection that the end of each strip is connected in two points with abutting strips.

1,678,436. ICE-CREAM HOLDER. PETER KINNEAR, Columbus, Ohio. Filed May 31, 1923. Serial No. 642,500. 1 Claim. (Cl. 99—16.)



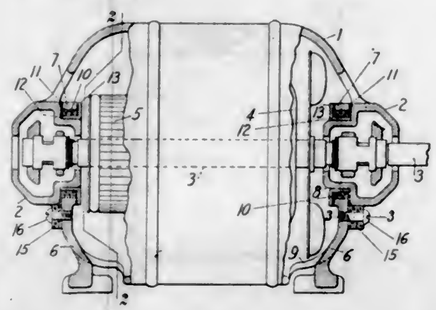
A device for holding a cake of ice cream comprising, in combination, a stick having a substantially uniform diameter and a closed guard thereon extending transversely therefrom and thereabout, said guard being of flexible material and frictionally engaged with the stick at a perforation in said guard, said perforation being primarily of smaller diameter than the diameter of the stick whereby said guard can be adjusted to stand by frictional engagement at any point on the stick.

1,678,437. SHORT-CIRCUITING DEVICE FOR MOTORS. GEORGE H. LELAND, Dayton, Ohio, assignor of one-half to The Leland Electric Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 16, 1925. Serial No. 23,524. 14 Claims. (Cl. 172—279.)



1. In a device of the character described, the combination with a shaft, and a commutator mounted on said shaft and comprising a series of bars, of an annular series of substantially radial contact members arranged circumferentially of said shaft and movable in substantially straight lines by centrifugal force into short circuiting contact with said commutator bars, means for connecting the inner ends of a part of said contact members one to the other to cause them to move in unison, and a yieldable device acting on said contact members to resist their outward movement.

1,678,438. MOTOR MOUNTING. GEORGE H. LELAND, Dayton, Ohio, assignor to one-half to The Leland Electric Company, Dayton, Ohio, a Corporation of Ohio. Filed June 16, 1926. Serial No. 116,342. 11 Claims. (Cl. 172—36.)

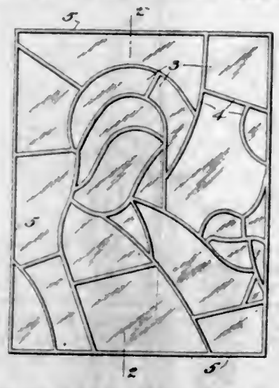


9. In a machine of the character described, a frame having a part forming a support, a supporting member extending about said part of said frame, and a resilient element interposed between said part of said frame and said supporting member and adapted to permit torsional vibration by said frame with respect to said supporting member and at the same time to resiliently limit the continued rotation of said frame with respect to said supporting member.

1,678,439. LEADED GLASSWORK. GEORGES LE ROY, Marly le Roi, France. Filed Jan. 29, 1926, Serial No. 84,751, and in France Feb. 7, 1925. 2 Claims. (Cl. 41—23.)

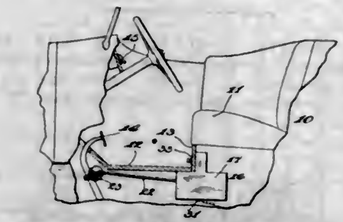
1. A glass panel, comprising a multiplicity of structurally-separate, transparent quarries, each consisting of coloured, transparent front and rear sections of the same

shape and dimensions and a transparent pellicle interposed between the sections of each quarry and conforming thereto in shape and dimensions, each such portion



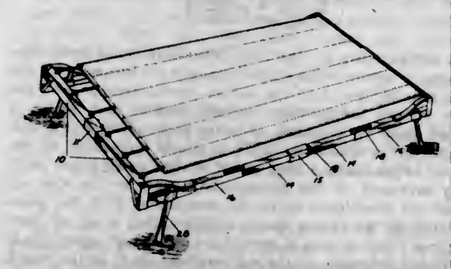
of pellicle having a photographic image formed on it; and a supporting structure of lead joining the different quarries together along their abutting marginal edges.

1,678,440. ANTITHEFT DEVICE. CHARLES LEWANDO, Brooklyn, N. Y. Filed June 1, 1927. Serial No. 195,833. 3 Claims. (Cl. 70—127.)



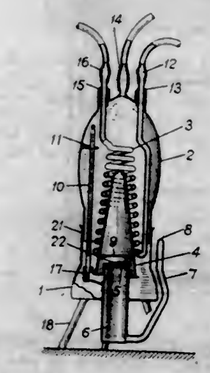
1. In an anti-theft device, the combination with the clutch pedal of a motor vehicle, a rod extending therefrom, a bearing for the free end of said rod, an obstructing member having an opening therein for registration with said bearing for the free passage of said rod therethrough, spring means acting against said obstructing member to move the same to an obstructing position, and key controlled mechanism for rendering said obstructing member responsive and unresponsive to the action of said spring means upon depression of said clutch pedal to a position to cause the free end of said rod to clear said opening.

1,678,441. FOLDING CAMP BED. EARL E. MCGREW, Lincoln, Nebr., assignor to McGrew Machine Company, Lincoln, Nebr., a Corporation of Nebraska. Filed Sept. 2, 1924. Serial No. 735,513. 5 Claims. (Cl. 5—112.)



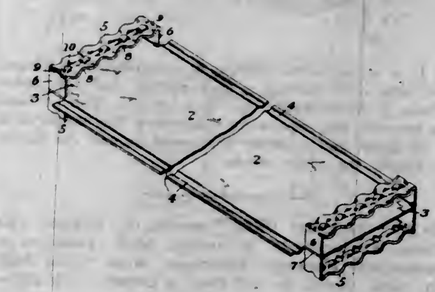
2. In a folding bed, a side rail having a pair of telescoping sections, a leg pivotally secured to one of said sections and foldable therein, the other of said sections being adapted to slide over the pivot of said leg to prevent pivotal movement thereof when the bed is folded.

1,678,442. SUBLIMATOR. FRANK A. PEARL, New York, N. Y. Filed Dec. 1, 1927. Serial No. 237,005. 13 Claims. (Cl. 23—253.)



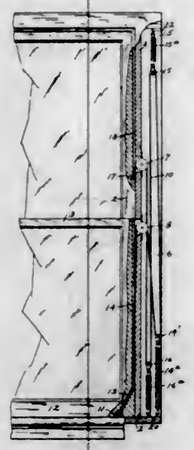
1. An apparatus of the class described comprising a heating chamber, means for supporting a substance for sublimation, a separable vessel for receiving the deposit of material sublimed from said substance when heated, separable means for cooling said vessel, and a sectional enclosing unit for said heating chamber, supporting means, vessel and cooling means.

1,678,443. PALLET. ROBERT V. PROCTOR and HARRY M. SCHAAB, Youngstown, Ohio, assignors to The Commercial Shearing and Stamping Company, Youngstown, Ohio, a Corporation of Ohio. Filed Dec. 29, 1924. Serial No. 758,538. 9 Claims. (Cl. 34—17.)



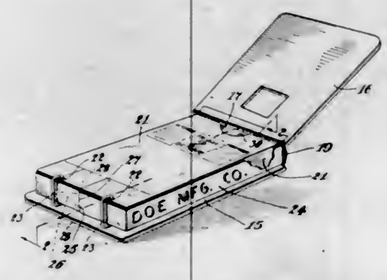
1. As an article of manufacture, a pallet comprising a body portion having end portions of reduced width, and at least one supporting leg for each end portion, substantially as described.

1,678,444. WINDOW-SASH COUNTERBALANCE. GEORGE C. ROEDL, West Allis, Wis. Filed Feb. 21, 1927. Serial No. 169,689. 3 Claims. (Cl. 16—197.)



1. The combination with a frame providing guideways, of a plurality of sash reciprocable in said guideways, a single cord interconnected between said sash, and a plurality of counter-balancing springs providing tension upon said cord.

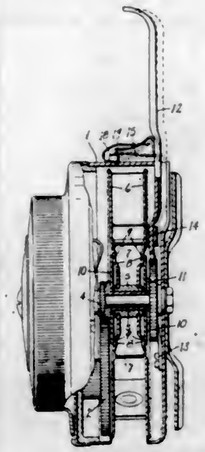
1,678,445. MEMORANDUM PAD. FRED ROEGER, Hasbrouck Heights, N. J., assignor of one-half to Howard S. Neiman, New York, N. Y. Filed Nov. 12, 1925. Serial No. 68,584. 10 Claims. (Cl. 281—19.)



1. In a memorandum device, in combination, a hinged cover, said cover having a back portion and two cover portions, a recess within the back portion open at both ends thereof, ring means for connecting the sheets of a pad of paper, and a binder positioned around the sheets and within the cover recess.

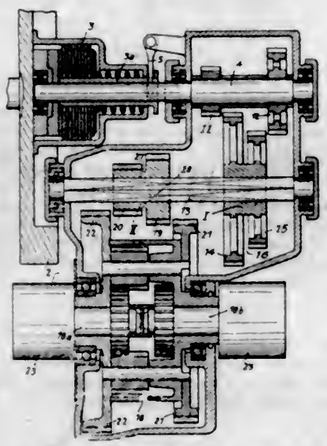
1,678,446. FISHING REEL. SAMUEL G. RUSSELL and PETER WORKMAN, Jr., Kalamazoo, Mich., assignors to Shakespeare Company, Kalamazoo, Mich. Filed Sept. 25, 1926. Serial No. 137,790. 6 Claims. (Cl. 242—84.5.)

5. In a structure of the class described, the combination of a driving spindle, a spool comprising a hub rotatable on said spindle, flanges having stepped inwardly offset central portions fixed to said hub, said stepped offsets providing annular friction surfaces substantially spaced from the hub, resilient friction driving discs arranged on said spindle at the end of said hub with portions adjacent their peripheries coacting with said annular friction surfaces providing a driving friction connection for the spindle to the spool, and a barrel mounted



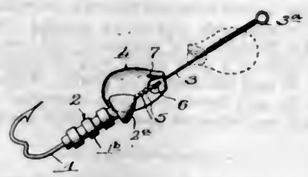
between said flanges concentrically of said hub and adjacent said friction surfaces, said barrel constituting a thrust supporting member for said flanges.

1,678,447. DRIVING DEVICE FOR THE FRONT WHEELS OF MOTOR CARS. ROBERT SCHWENKE, Berlin-Charlottenburg, Germany. Filed Apr. 27, 1927, Serial No. 187,107, and in Germany Jan. 23, 1925. 1 Claim. (Cl. 74—57.)



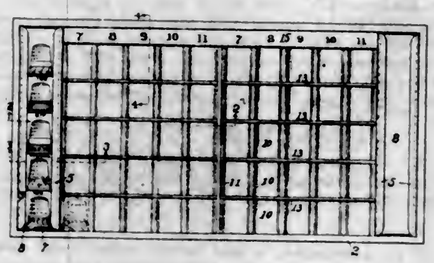
A driving gear for the front wheels of motor cars, comprising a motor crank-shaft arranged transversely to the direction of travel of the car, a clutch arranged at one side of the longitudinal vertical median car plane, a clutch shaft, a plurality of gears secured to said clutch shaft, an intermediate shaft arranged parallelly to the motor crank-shaft, a first set of change speed gears shiftably arranged on the intermediate shaft at the side opposite to the clutch to be interconnected with the gears secured on the clutch shaft, a differential, a set of gears secured thereon, and a second set of change speed gears shiftably arranged on the intermediate shaft at the clutch side to be interconnected with the gears secured on the differential.

1,678,448. FISHING LURE. JESSE P. SHANNON, Lake Geneva, Wis. Filed Mar. 25, 1927. Serial No. 178,185. 6 Claims. (Cl. 43—45.)



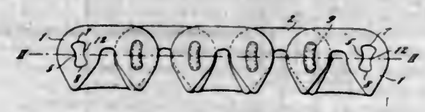
1. A fishing lure comprising a shank, a spoon having an attaching portion at one end engaging said shank at points spaced apart longitudinally thereof, said spoon and attaching portion having a predetermined arrangement of slots embracing said shank to permit said spoon to swing bodily toward and from the ends thereof in an arc of definite direction and magnitude.

1,678,449. DISPLAY TRAY. FREDERICK M. SIMONS, Bowling Green, Pa., assignor to Simons Bros. Company, a Corporation of Pennsylvania. Filed May 27, 1925. Serial No. 33,082. 3 Claims. (Cl. 206—72.)



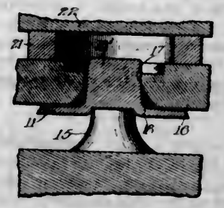
3. A display tray having arranged within the boundaries of its sides a plurality of grooved transverse rows of pockets in parallel relation and the adjacent strips separated by division strips, characterized by the transverse rows of pockets being formed of separate strips of wood each having its bottom and two upright sides along its length arranged at right angles to each other and its upper surface formed by a plurality of inclined parallel grooves each extending entirely across the strip and of substantially the same cross section throughout its length, the open ends of said grooves of the strip being closed by the division strips.

1,678,450. CHAIN AND PART THEREFOR. HAROLD E. STURTEVANT, Hartford, Conn., assignor to The Whitney Mfg. Co., Hartford, Conn., a Corporation of Connecticut. Filed Oct. 25, 1923. Serial No. 670,636. 6 Claims. (Cl. 74—32.)



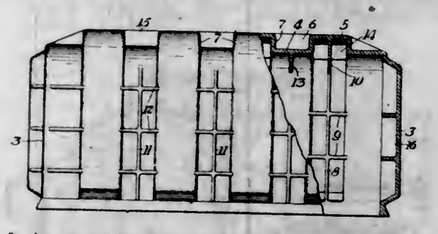
1. A chain of the silent link type having joints comprising links with registering openings and two pin members in said openings, said members having parallel sides and the side walls of said openings being curved and having rocking contact with said pin members.

1,678,451. APPARATUS FOR MAKING NOZZLES. JAMES HALL TAYLOR, Oak Park, Ill. Filed Mar. 15, 1924. Serial No. 699,510. 5 Claims. (Cl. 78—60.)



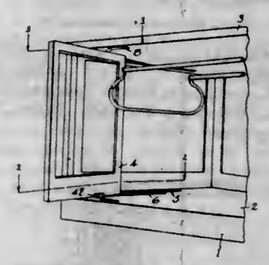
1. In die mechanism for forming nozzles, the combination of a male die, a female die, a die plate adapted to produce relative motion between said dies, and a spacer normally provided between said die plate and one of said dies, said spacer being removable to permit said die plate to impress its full pressure on the blank.

1,678,452. ANNEALING BOX. WILLIAM E. TROUTMAN, Pittsburgh, Pa., assignor to Duquesne Steel Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 13, 1926. Serial No. 129,001. 5 Claims. (Cl. 263—49.)



1. An annealing box structure having top, side and end walls, the side walls being formed of a plurality of channel portions having substantially flat bottoms and substantially perpendicular sides, some of the channels being turned inwardly and some of the channels being turned outwardly, said inwardly turned channels having bracing webs therein, and said outwardly turned channels having bracing webs therein.

1,678,453. DOOR STRUCTURE FOR DISPLAY CABINETS. LYMAN W. WELCH, Grand Rapids, Mich., assignor to Welch Manufacturing Company, Grand Rapids, Mich. Filed Sept. 8, 1925. Serial No. 55,071. 1 Claim. (Cl. 312—138.)



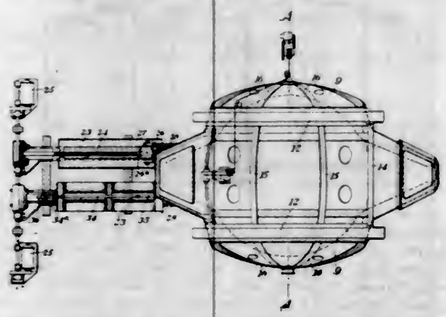
1. The combination with a display case with a supporting base and having top and end walls and a swinging sliding door structure, of a door, diametrically opposed upper and lower grooved track at the end of the base and top walls, an auxiliary curved grooved track on said base at the bottom, an offset double-roller bearing ball carried on the inner side of said door and spaced from its rear edge, said bearing ball traveling in said auxiliary

curved portion to carry the main weight of said door, an upper opposed curved branch track portion, parallel to the auxiliary track, at the top of the door and coalescing by a Y with said upper end tracks, a projecting guiding ball pin member on top of said door opposite said carrying ball for engaging said track and branch, and projecting guide ball pins at the rear upper and lower edges of said door to travel in the end tracks at top and bottom, coacting as specified.

1,678,454. PROCESS FOR OBTAINING CERTAIN REMEDIAL PRINCIPLES OF OILS. THEODORE F. ZUCKER, New York, N. Y., assignor, by mesne assignments, to University Patents, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 7, 1922. Serial No. 605,513. 19 Claims. (Cl. 167—7.)

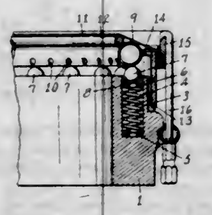
3. In a process for the extraction of the antirachitic principles of cod liver oil, the steps which comprise treating cod liver oil with alcohol, saponifying the fatty acids in the alcoholic extract, precipitating the calcium salts of soaps thus formed and extracting the antirachitic principles from the precipitated soaps.

1,678,455. HOT-METAL MIXER. LEE E. ALLEN and JOHN K. FURST, New Castle, Pa., assignors to Pennsylvania Engineering Works, New Castle, Pa., a Corporation of Pennsylvania. Filed July 6, 1926. Serial No. 120,857. 10 Claims. (Cl. 266—33.)



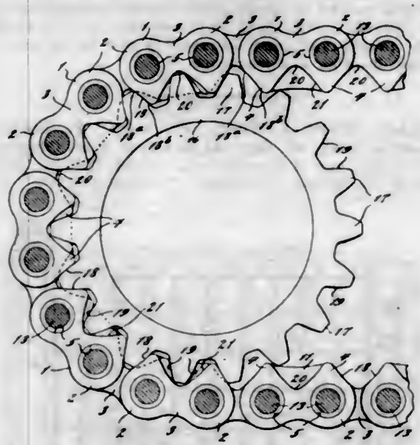
1. A hot metal mixer comprising a body which is outwardly bowed between its ends relative to its longitudinal axis, ends on the body which are rounded outwardly both transversely and vertically, said ends being closed below the longitudinal axis of the body, the top of said body being transversely curved to a less extent than the remaining portion of the body, spouts located on opposite sides of the body intermediate its ends, and means for tiltably supporting the body.

1,678,456. RESONANCE RING FOR STRINGED MUSICAL INSTRUMENTS. GEORGE ALTERMATT, Kalamazoo, Mich., assignor to Gibson, Incorporated, Kalamazoo, Mich. Filed Sept. 28, 1925. Serial No. 59,072. 15 Claims. (Cl. 84—269.)



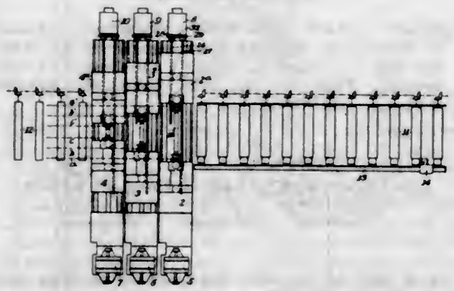
1. In a banjo, the combination with a rim having a plurality of sockets in its upper edge and provided with an upwardly projecting extension member, coiled springs arranged in said sockets, ball thrust plates having central ball positioning seats therein disposed upon said springs in said sockets, balls supported on said seats out of contact with the walls of the sockets, a resonance ring disposed on said balls and having a plurality of sound holes in the inner side thereof, an annular thrust member disposed between said resonance ring and said rim extension member, a head thrust ring of a diameter less than that of said resonance ring resting thereon, a head supported by said thrust ring and embracing the upper edge of said rim extension member, and a head clamping means.

1,678,457. CHAIN-DRIVE GEARING. WARREN J. BELCHER, Hartford, Conn., assignor to The Whitney Mfg. Co., Hartford, Conn., a Corporation of Connecticut. Filed Mar. 29, 1922. Serial No. 547,628. 20 Claims. (Cl. 74—32.)



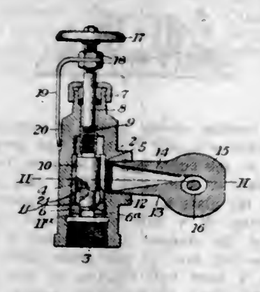
2. In combination, a gear having radial teeth, and a transmission chain composed of a plurality of overlapped toothed links cooperable with said gear, and transverse bearing members having a diameter not less than one-half the pitch length of the chain connecting the overlapped portions of said links, said bearing members being located outside the gaps between the gear teeth.

1,678,458. MULTIPLE SHEARS. FLORENCE C. HIGGERT, Jr., Pittsburgh, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 6, 1925. Serial No. 28,467. 4 Claims. (Cl. 164—60.)



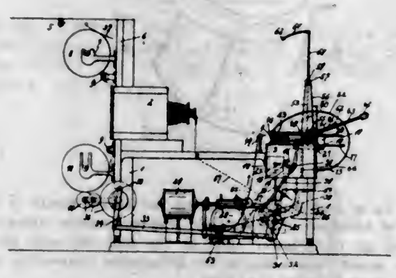
4. In a multiple shear, a plurality of pairs of stationary shears positioned side by side so as to simultaneously engage material, and means for feeding sheet material successively to the several pairs of shears, the shears in the several pairs being arranged successively closer together in the order in which they engage the fed material.

1,678,459. VALVE FOR FLUID-FUEL BURNERS. ANDREAS BOWLAND, Wilkinsburg, Pa. Filed Feb. 21, 1927. Serial No. 169,814. 4 Claims. (Cl. 251—77.)



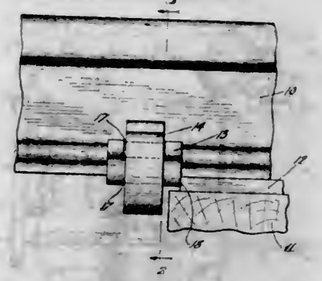
2. A valve including a body having an inlet connection and an outlet connection and having a valve chamber, a sleeve fitted into the valve chamber having a slot therein opening toward the outlet connection, a disk in the body at the end of the sleeve for retaining the sleeve in the body, said disk having a central orifice therein, a valve stem in the body, a plug on the stem fitted into the sleeve, and an extension on the plug adapted to seat against said disk for closing the orifice therein when the plug covers the said slot in the sleeve.

1,678,460. PHOTOGRAPHIC APPARATUS. MAX BRESLAUER, Leipzig, Germany. Filed July 23, 1923. Serial No. 653,348, and in Germany July 17, 1922. 11 Claims. (Cl. 88—24.)



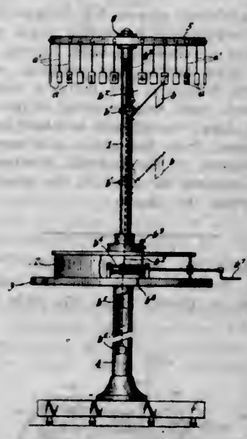
1. An apparatus for the continuous photographing of pages, drawings, and the like, forming parts of a book, comprising, in combination, a photographic camera, a shutter forming part thereof, means for actuating the shutter, a table adapted to receive the book, a suction pipe and suction heads thereat and being adapted to lift the sheets etc. to be photographed, means to produce a sucking current in said suction pipe, a blast nozzle located at a side of the book and being adapted to blow air against the upper leaf edges, means to produce the air current for said nozzle, a bell-crank lever to which the said pipe is adjustably attached, a cam disk so arranged as to be adapted to actuate said lever, means to operate said disk, and a suction chamber having a perforated front wall against which the sheet etc. is lifted by the said lever and the said suction pipe, as set forth.

1,678,461. RAIL ANCHOR. BYRON M. CHENEY, Chicago, Ill. Filed Apr. 27, 1927. Serial No. 186,867. 12 Claims. (Cl. 238—321.)



11. A rail anchor comprising a spring clip for engaging a rail flange, and spring clamping jaws embracing said clip to hold the same in position on said flange, said clip and jaws being formed to be positioned and held on only one flange of the rail.

1,678,462. GAME APPARATUS. FRANCESCO CUCINOTTO, New York, N. Y. Filed Jan. 11, 1928. Serial No. 246,060. 4 Claims. (Cl. 273—142.)

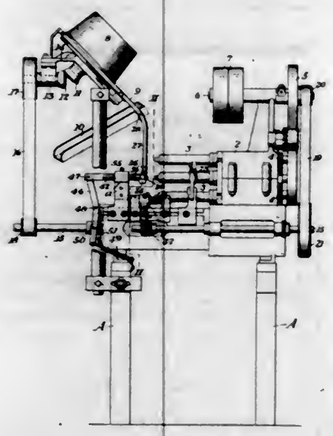


1. A game apparatus characterized by a rotor having a series of dangling members adapted to be carried around in a circular path by said rotor, and characterized further by an indicator device adapted to be moved into the path of said dangling members to arrest their circular movement gradually, means tending to move said indicator device automatically into said arresting position, manually operated means to move said indicator device at times out of said arresting position, and a controlling device to control said movements, said controlling device being adapted for operation manually to release said means for moving said indicator device into said arresting position.

1,678,463. CAP-APPLYING MEANS FOR TUBE-WORKING MACHINES. WALTER T. DAVIS, Wheeling, W. Va., assignor to Wheeling Stamping Company, Wheeling, W. Va., a Corporation of West Virginia. Filed Apr. 20, 1923. Serial No. 633,444. 15 Claims. (Cl. 29—38.)

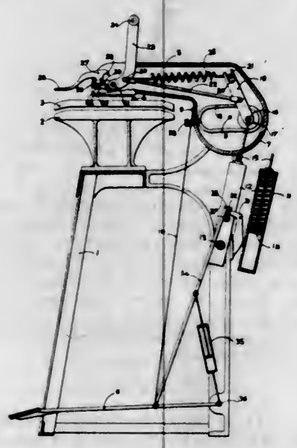
1. In a collapsible tube-working machine, cap-delivery means and means for receiving a cap by gravity direct-

ly from said delivery means and frictionally holding the same by engagement with its periphery only and applying the same to the threaded neck of a tube, substantially as described.



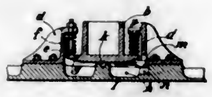
15. A cap applying means for collapsible tubes including a tube supporting member, a chuck member, said chuck comprising a supporting block having sliding jaws thereon, said jaws having cap gripping surfaces and cap feed control fingers, a cap delivery chute terminating at the chuck, said fingers being reciprocable across the end of the chute, one of said members being movable toward and away from the other, and means operable upon the movement of the movable member away from the other for opening the jaws of the chuck, and other means for closing the chuck.

1,678,464. IRONING STEAM PRESS. PIERRE DIEBOLD, Nancy, France. Filed June 18, 1927, Serial No. 199,851, and in France Sept. 27, 1926. 11 Claims. (Cl. 68—9.)



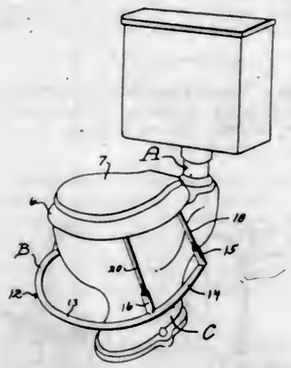
1. In an ironing press, a hollow arm supporting the upper pressing plate, a drum integral with the arm and pivoted to the machine frame, a pedal for lowering the arm, a connection between the pedal and the arm consisting of a flexible steel band attached to the pedal and partly wound around the drum, and means for balancing the arm and assisting it in its downward and upward motions.

1,678,465. IRONING STEAM PRESS. PIERRE DIEBOLD, Nancy, France. Filed June 18, 1927, Serial No. 199,852, and in France Oct. 14, 1926. 3 Claims. (Cl. 68—9.)



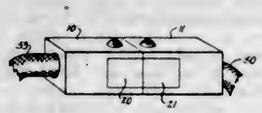
1. In an ironing steam press, a movable arm pivotally connected with the frame of the press, a flanged plate holder at the outer end of the arm for supporting the upper plate of the press, and a ball joint connection between the plate holder and the upper plate of the press consisting of a ball seat at the center of the lower face of the flanged plate holder, a boss at the center of the top face of the press plate, a ball seat in the boss, a steel ball bearing on the seats in the boss and the plate holder, and means for movably attaching the plate of the press to the flanged plate holder.

1,678,466. FOOT-REST ATTACHMENT FOR CLOSETS. ZENAS W. GUNCKEL, Guthrie, Okla. Filed Mar. 15, 1928. Serial No. 261,841. 7 Claims. (Cl. 4—254.)



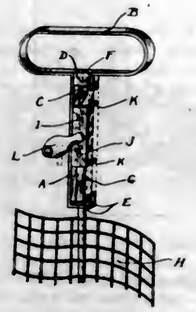
1. In a foot rest attachment for closet bowls, a foot bar of U-shape in formation, and suspension arms connected at their lower ends to the foot bar and having their upper ends adapted for detachable connection with the upper edge of the bowl.

1,678,467. CONNECTING DEVICE. AMMON W. HEAB, New York, N. Y. Filed June 16, 1925. Serial No. 37,444. 7 Claims. (Cl. 173—332.)



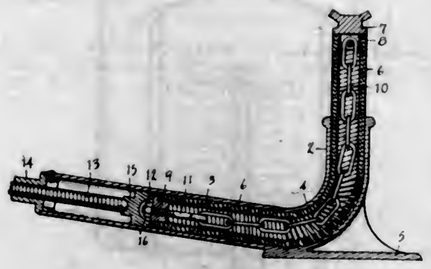
1. An electric connecting device for electrical conductors, comprising two opposed elements of like construction, each having a rectangular cross section and having a channel cut in the contiguous faces thereof, and having an aperture extending through each of said elements into communication with the channel, and a pair of terminal blocks of like construction fitted into the channels of said opposed elements respectively and each having electric contacts positioned thereon, the conductors extending through said apertures and fastened to said contactors.

1,678,468. OPERATING MECHANISM FOR WHIPPERS. GEORGE A. HERRON, Ottawa, Ontario, Canada, assignor of fifty-one per cent to T. Bert Cole, Ottawa, Canada. Filed Mar. 29, 1927. Serial No. 179,268. 6 Claims. (Cl. 259—128.)



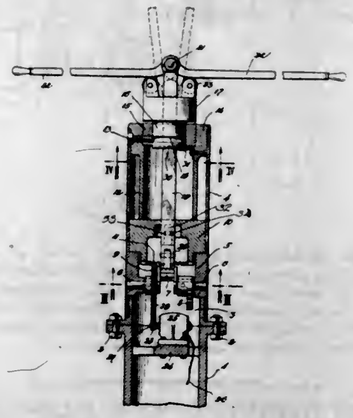
1. A whipper comprising a frame bent double on itself to provide a pair of spaced side members the lower ends of which are bent toward each other and adapted to overlap, a bearing block supported near the top by said side members, a shaft mounted between said side members continuing at the bottom through said overlapped ends and journalled at its upper end in said bearing block and an actuator reciprocably mounted on said shaft and held against rotation by said frame.

1,678,469. LIFTING JACK. ARTHUR C. HOPKINS, Niles, Mich., assignor to National-Standard Company, Niles, Mich. Filed May 18, 1927. Serial No. 192,266. 12 Claims. (Cl. 254—98.)



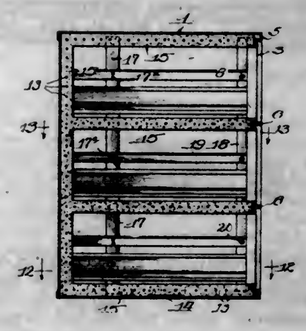
1. In a lifting jack, the combination of a tubular elbowed standard of uniform bore from end to end, the elbow being uniformly curved, said standard having an integral base below its elbow, a lifting member comprising a coiled spring slidably fitting within said standard and having coils of a concavo-convex cross section in nesting engagement, a head for said lifting member mounted on the outer end of said spring, a thrust member engaging the inner end of said spring, a flexible tension member secured to said head and adjustably secured to said thrust member, and an actuating screw having threaded engagement with said standard and coacting with said thrust member.

1,678,470. SIGNAL DEVICE. GEORGE HULME, Detroit, Mich. Filed Mar. 22, 1926. Serial No. 96,446. 6 Claims. (Cl. 116—63.)



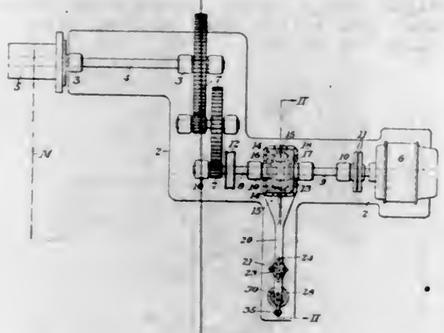
1. In a signal device, a pedestal, a rotary head carried thereby, oscillatory members carried by said head adapted to rotate therewith and adapted to be oscillated during rotation of said head, a pitman slidable in said head and connected to said oscillatory members, and means in said pedestal adapted to cause rotation of said head and intermittently reciprocate said pitman to cause oscillation of said members.

1,678,471. HEAT-RESISTING FILING DEVICE. DAVID E. HUNTER, Muskegon, Mich., assignor to Shaw-Walker Company, Muskegon, Mich., a Corporation of Michigan. Filed Oct. 16, 1926. Serial No. 141,921. 17 Claims. (Cl. 109—2.)



1. A heat resisting filing cabinet comprising an outer sheet metal casing having a front opening surrounded by a U-shaped flange, a sheet metal frame fitting into said opening in engagement with metal clips secured to said flange and having locking heads adapted to be bent over said frame to lock the same against displacement.

1,678,472. REEL. LANE JOHNSON, Pittsburgh, Pa., assignor to United Engineering and Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 7, 1923. Serial No. 679,134. 6 Claims. (Cl. 242—75.)



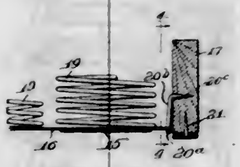
1. The combination with a driving motor, of an element driven thereby, a differential gear mechanism through which the motor and driven element are connected, and a motor control associated with the differential, said control being arranged to slow down the driving motor when the driven element is slowed down.

1,678,473. THUMB TACK. HOWARD C. KARST, Philadelphia, Pa. Filed Jan. 16, 1928. Serial No. 247,247. 6 Claims. (Cl. 85—16.)



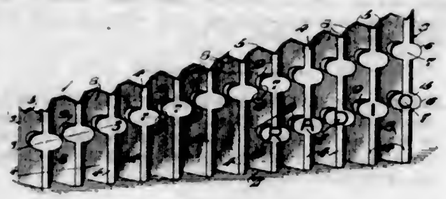
6. In a device of the character stated, a head piece formed of spring metal and having a central, offset spring portion, one end of said head piece being adapted to be secured to a support and the other end thereof being adapted to be snapped towards and into a clamping position against said support to secure an object thereto, and to be snapped away from said support to release said object, by the exertion of pressure on said central, offset portion, and means for spacing said head piece from said support.

1,678,474. UPHOLSTERY CONSTRUCTION. MAX KRAUSE, Chicago, Ill. Filed May 31, 1924. Serial No. 716,852. 3 Claims. (Cl. 155—179.)



1. In upholstery construction of the character described, the combination of a frame part, a flexible fabric web secured to the normally under surface of the frame, and auxiliary supporting means for the web comprising a member secured to the frame and passing across the web on its normally under surface adjacent to the frame and holding the web in normally raised position at the lower edge of the frame where the web extends inward therefrom and converting downward strains applied upon the web at places inward of the frame into upward strains upon the web where it extends between the lower surface of the frame and said supporting means.

1,678,475. ADVERTISING AND DISPLAY DEVICE. CHARLES A. LONG, Jr., Philadelphia, Pa. Filed May 5, 1928. Serial No. 275,345. 3 Claims. (Cl. 40—137.)



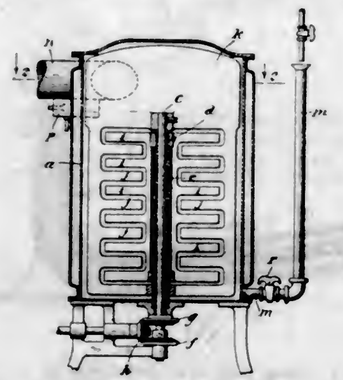
1. A device for advertising and display purposes comprising a one-piece member of thin material having a horizontal bottom edge, a plurality of spaced ribs arranged at right angles to said bottom edge and extending vertically throughout the height of said device, laterally disposed aligning tabs on said ribs to form advertising receiving spaces, and hinge portions arranged between adjacent ribs, said hinge portions being cut away to accommodate said tabs when the device is in folded position.

1,678,476. PRODUCING AGGLOMERATED CREAM. CHARLES E. NORTH, Montclair, N. J., assignor to The Milk Oil Corporation, Wilmington, Del., a Corporation of Delaware. Filed Feb. 20, 1924, Serial No. 694,015. Renewed June 8, 1928. 4 Claims. (Cl. 99—11.)

1. The process herein set forth of producing an agglomerated cream which consists in washing natural cream to remove therefrom substantially all solids not fat and whipping the washed cream without substantially increasing the volume of the washed cream.

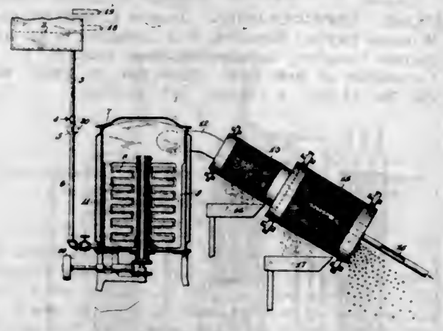
2. The new milk product herein described, agitated and agglomerated cream in a stiff pasty mass substantially free from all solids not fat and containing substantially no added air.

1,678,477. PROCESS FOR WHIPPING OR AGITATING CREAM. CHARLES E. NORTH, Montclair, N. J., assignor to The Milk Oil Corporation, Wilmington, Del., a Corporation of Delaware. Filed Dec. 4, 1924. Serial No. 753,806. 7 Claims. (Cl. 259—6.)



1. The process of whipping cream, which comprises continuously feeding cream to one part of a column of cream and displacing cream in said column, applying to said cream in its movement of displacement rotative impulses in opposite directions, thereby whipping the cream, so correlating the strength and frequency of said impulses to the rate of feed as to thoroughly whip the cream without breaking into butter, displacing whipped cream out of said whipping zone, and after the whipped cream has emerged from the whipping zone displacing it from the column of cream.

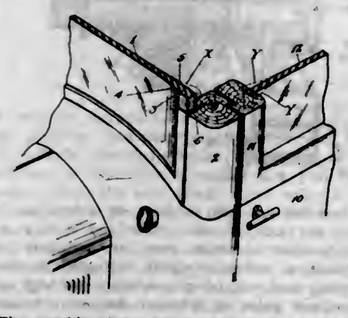
1,678,478. PROCESS OF CHURNING CREAM INTO BUTTER FAT AND APPARATUS THEREFOR. CHARLES E. NORTH, Montclair, N. J., assignor to The Milk Oil Corporation, Wilmington, Del., a Corporation of Delaware. Filed Jan. 27, 1925, Serial No. 5,172. Renewed Jan. 4, 1928. 8 Claims. (Cl. 99—13.)



1. The process of obtaining butter fats, which comprises continuously feeding cream to one part of a column of cream and displacing cream in said column; applying to said cream in its movement of displacement rotative impulses in opposite directions, thereby agitating the cream; so proportioning the strength of said impulses to the rate of feed as to effect thoroughly the agglomeration of the fats contained in the cream; displacing the treated material in the form of agglomerated fats and butter-milk out of the agitating zone; and removing such treated material continuously and automatically.

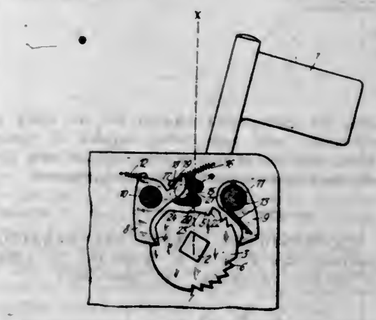
7. A churn for the continuous separation of butter fats from cream, which comprises a churning chamber having an outlet in its upper portion for the substantially continuous discharge of butter fats and a residue; agitating elements extending into the lower part of said chamber, there being a zone for agglomerated fats and residue above the agitating elements and below the level of said outlet; and means for feeding cream to the churning chamber at a rate to ensure the thorough breaking into butter of the fat globules contained in the cream and displacement of the butter fats and the residue upward from the agitating zone.

1,678,479. WINDOW. ERNEST L. O. PATTEN, Lakewood, Ohio, and RAYMOND E. PATTEN, Detroit, Mich. Filed Feb. 6, 1924. Serial No. 690,912. 8 Claims. (Cl. 88—1.)



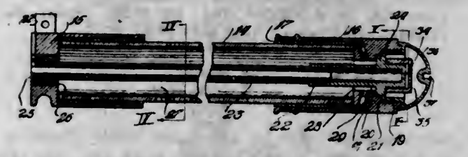
8. The combination with a vehicle having a substantially opaque body member and a seat member, said members being so relatively positioned as to obstruct partially the field of vision of a person normally occupying said seat, of a refracting prism, and means for supporting said prism and so positioning the same relative to said opaque member that a person normally occupying said seat may see the image of an object in said obstructed field.

1,678,480. FARE INDICATOR. PAUL RIEGGER, Villingen, Baden, Germany, assignor to Kienzle Uhrenfabriken Aktiengesellschaft, Schwenningen-on-the-Neckar, Germany, a Corporation of Germany. Filed Nov. 11, 1924. Serial No. 749,204. 4 Claims. (Cl. 235—30.)



1. In a fare indicator, the combination with a setting member for setting the indicator mechanism into and out of service position, of an operating member connected with said setting member and provided with a plurality of peripheral projections, a locking member, co-operating with one of the projections to lock said operating member against movement into service position, and a controlling member co-operating with said locking member to adjust the latter to an inoperative position and to fix it therein, said controlling member being provided with a stop-notch co-operating with another of said peripheral projections to operate said controlling member.

1,678,481. ELECTRIC FUSE. JOSEPH D. ROBERTS, Springfield, Ill. Filed Dec. 20, 1926. Serial No. 155,792. 2 Claims. (Cl. 200—127.)

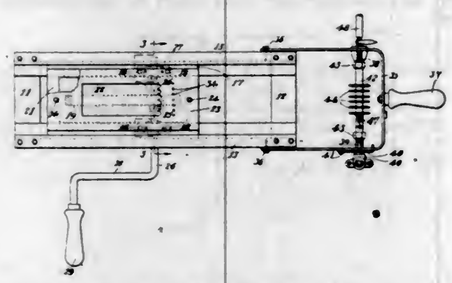


1. An electric fuse, comprising a relatively non-fusible glass tube, apertured metallic ferrules secured to the ends thereof, an open ended tube of non-carbonizing insulating material supported from said ferrules within said glass tube, one end of said insulating tube registering with one of said ferrule apertures, and a fuse element adapted to extend through said one aperture and insulating tube with its ends establishing electrical contact with said ferrules, whereby a rupture of said fuse element will result in the unfused portion of said element being blown out through said one aperture with sufficient force to extinguish the electric arc formed upon the rupture of the element.

1,678,482. MACHINE FOR MAKING ARTIFICIAL FLOWERS. MORRIS ROBINSON, New York, N. Y. Filed Nov. 7, 1927. Serial No. 231,500. 4 Claims. (Cl. 41—2.)

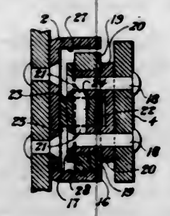
1. A machine of the character described, comprising a block of yielding material, a support for the same, a plate

provided with an opening to receive the material to be acted upon and secured upon the top of said block, a pivoted yoke, a shaft supported thereby, a plurality of spaced rollers mounted upon said shaft, means for heating said



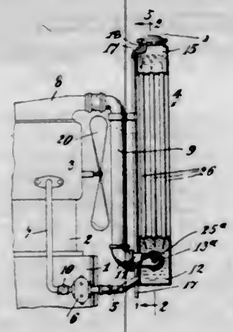
rollers, means for giving said support for the block a forward movement, said yoke being capable of being swung to bring said heated rollers into contact with the said plate during said movement of the block support.

1,678,483. CAN-HANDLING DEVICE AND BEARING. JOHN RUGGIERO, New York, N. Y. Filed Oct. 21, 1926. Serial No. 143,252. 2 Claims. (Cl. 308—203.)



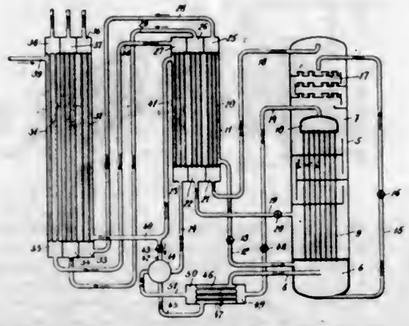
1. A bearing having the combination with a frame, of a stud secured thereto, a roller mounted to revolve around said stud, and a roller mounted on said stud to revolve within said other roller and right angularly thereto.

1,678,484. COOLING SYSTEM. SAMUEL W. RUSHMORE, Plainfield, N. J. Filed Aug. 10, 1926. Serial No. 128,344. 10 Claims. (Cl. 123—174.)



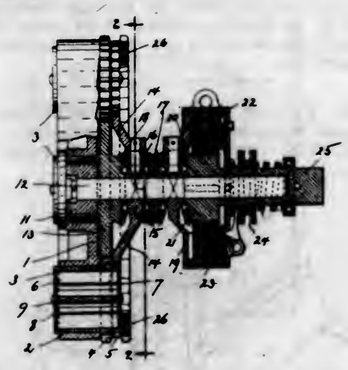
1. An internal combustion engine having a water and steam cooling circuit of inadequate radiating capacity, serially including a force feed pump supplying water to the jacket of the engine, an outlet discharging hot water and steam from the jacket into the lower chamber of an air cooled radiator of the upright type having a multiplicity of small diameter cooling passages of great radiating capacity connecting a lower chamber of small radiating capacity with an upper chamber which has a high level overflow outlet, and in combination with said parts, means for maintaining a circulating body of water submerging and upflowing through some of said cooling passages and downward through others, said means including a discharge means arranged to discharge warm water and then hot water and the steam from the engine lengthwise along a region of said body of water that is below and in proximity to the lower ends of most of said passages and to draw water from a region below other passages.

1,678,485. REFRIGERATION. JOSEPH L. SCHLITT and WALCOTT DENNIS, Elizabeth, N. J., assignors to Air Reduction Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 20, 1925. Serial No. 24,350. 4 Claims. (Cl. 62—123.)



1. The method of improving the production of refrigeration in the liquefaction of gases, which comprises cooling a gaseous mixture to separate a liquid from a residual unliquefied gas, expanding the residual unliquefied gas and the entering gaseous mixture in heat exchange relation in a rotary expander and applying the torque produced by the separate expansions to a single shaft.

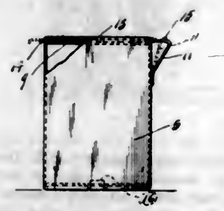
1,678,486. TRANSMISSION. REINHOLD SCHOELL, Kelsey City, Fla. Filed July 5, 1927. Serial No. 203,534. 5 Claims. (Cl. 74—34.)



1. The combination with a shaft, of a fly-wheel rotatable about the axis of said shaft and having a plurality of circular openings near its periphery, closed hollow cylindrical bodies rotatably journalled in said circular openings and containing a substance of high specific gravity, toothed gears of different diameters formed on the outwardly projecting ends of said cylindrical bodies, two toothed gears rotatably mounted on said shaft and in mesh with said other toothed gears, one of said two

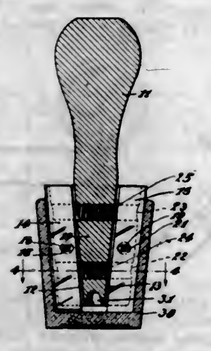
toothed gears having a toothed bevel gear formed thereon, a double toothed bevel gear, pinion members in engagement with said double toothed bevel gear and said toothed bevel gear, and a means actuated by said double toothed bevel gear for transmitting the rotation of said fly-wheel to said shaft at variable speeds, the said two toothed gears and double toothed bevel gear constituting a differential gear.

1,678,487. COMBINATION SALT AND PEPPER SHAKER. AUSTIN J. SCOTT, Gladwin, Mich. Filed Apr. 4, 1927. Serial No. 180,682. 1 Claim. (Cl. 65—45.)



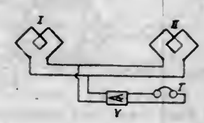
A combination salt and pepper shaker, comprising a receptacle formed with individual compartments, a raised bead on the top of said receptacle, perforations in said top, a pair of resilient strips mounted on said top and covering said perforations, and slidably mounted in openings in the raised bead, one end of each strip being turned to form a stop, the opposite end projecting beyond the top and extending downwardly at an angle, to engage the side of the receptacle, stops formed on said strips and spaced from the bead, perforations on the strips and adapted to register with the perforations in the top when the strips are forced inwardly and the stops engage the bead on the top, and means for securing said strips in position.

1,678,488. SCRAPER. JOHN J. STILLWAGGON, Jersey City, N. J. Filed Apr. 30, 1926. Serial No. 105,638. 2 Claims. (Cl. 15—236.)



1. A scraper comprising a head having diametrically opposite grooves extending longitudinally in the face thereof, a blade mounted in each groove and each blade provided with a transverse elongated slot, pins extending transversely into the said head, there being a pin for each blade, which pin extends through the slot of the blade and is of a diameter substantially equal to the width of the slot whereby each blade is prevented from moving longitudinally of the head but is permitted to shift its position transversely of the head and also to swing on its pin, the said head being provided with transverse bores on opposite sides of the said pins, and yielding devices mounted in the said bores and bearing against the inner edges of the said blades to normally maintain the blades in positions in which the faces defining the inner ends of the slots in the blades engage with the said pins and the outer edges of the blades extend beyond the peripheral portions of the head.

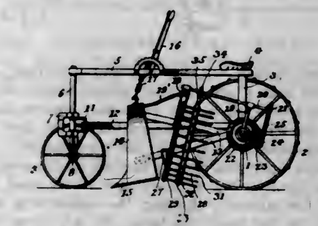
1,678,489. METHOD AND DEVICE FOR DETECTING AND LOCATING ORES IN AN ELECTRO-MAGNETIC WAY. KARL SUNDBERG, Rasunda, Sweden, assignor to Aktiebolaget Elektrisk Malmletning, Stockholm, Sweden, a Joint Stock Company. Filed Feb. 5, 1925, Serial No. 7,113, and in Sweden Oct. 18, 1923. 15 Claims. (Cl. 175—182.)



1. A device for determining the ratio of two simultaneously observed strengths of a resultant field produced in the territory of a generated terrestrial alternating electromagnetic field by ore bodies located within the influence of the generated field, comprising two rotatable loops connected to each other and adapted to be placed at two different points of said field, an amplifier connected in the common circuit of said loops, and current detecting means connected to said amplifier.

5. In a method of electromagnetically detecting and locating ore bodies, the steps comprising generating a terrestrial alternating electromagnetic field, and determining the ratio of two simultaneously observed strengths of the resultant field produced at two different points by ore bodies located within the influence of said generated field.

1,678,490. POTATO DIGGER. LOU VERD THAYER, Adamsville, Pa. Filed Nov. 27, 1926. Serial No. 151,073. 1 Claim. (Cl. 55—57.)

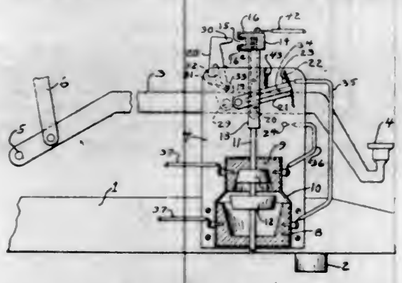


A potato digger comprising a frame mounted upon front and rear wheel supported axles, arms pivoted to the rear axle, lower guide rollers carried by certain of the arms, a scoop connected with the arms, means mounted upon the frame for raising and lowering the scoop, a shaft supported transversely above the rear axle and disposed longitudinally of the frame, means for rotating the shaft from the rear axle, an arcuate guide member supported upon the arms and having a bearing receiving said shaft, upper guide rollers carried by the guide member, a rotating shaker mounted between the lower and upper guide rollers and means for operating the shaker from the shaft.

1,678,491. KEY-CONTROLLED OPERATING MECHANISM. JOHN W. LAMBERT, Birmingham, Ala. Filed Sept. 21, 1925. Serial No. 57,582. 10 Claims. (Cl. 197—14.)

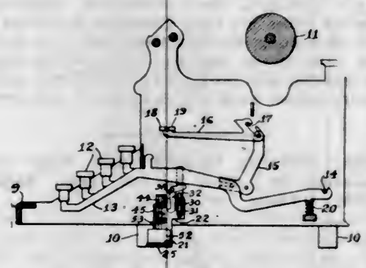
1. In a key controlled mechanism of the character described, an electric circuit, an electro-magnetically controlled reciprocable actuator forming a part of the cir-

cuit, a plurality of independent arms pivotally connected with the respective keys and adapted to be selectively engaged with and automatically disengaged from said



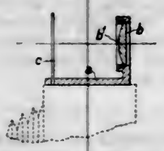
actuator to close the circuit and transmit movement to the keys upon engagement with the actuator, and means associated with the keys for controlling the selective engagement of said arms with said actuator.

1,678,492. ELECTROMAGNETIC ATTACHMENT FOR KEY-CONTROLLED MECHANISMS. JOHN W. LAMBERT, Birmingham, Ala. Filed Dec. 2, 1926. Serial No. 152,270. 5 Claims. (Cl. 197—19.)



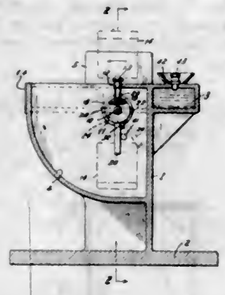
1. The combination with a typewriter having a supporting frame and a plurality of spaced apart manually operable key levers, of a self contained electro-magnetic mechanism for aiding in the operation of the key levers, a supporting member for the electro-magnetic mechanism, key lever operating means carried by the supporting member and interleaving with the key levers, and adjustable means for laterally shifting the supporting member with respect to the frame to bring the key lever operating means into and out of operative relation with the key levers.

1,678,493. FINDER FOR PHOTOGRAPHIC CAMERAS. LIEUWE EVERT WILLEM VAN ALBADA, Amsterdam, Netherlands, assignor to the Firm Carl Zeiss, Jena, Germany. Filed Aug. 24, 1923, Serial No. 659,170, and in Germany Sept. 6, 1922. 4 Claims. (Cl. 88—1.5.)



2. In a finder for photographic cameras a lens consisting of concentric collective zones and concentric zones having the refractive power zero interposed between the same, and a plurality of marks lying in the focal plane of the said lens.

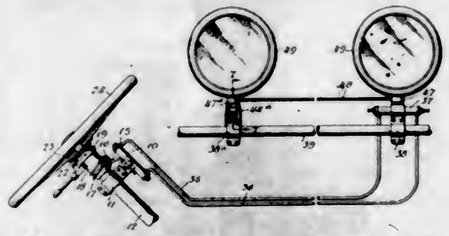
1,678,494. FILLER FOR CIGAR LIGHTERS. ALEXANDER LEE WALLAU, Cedarhurst, N. Y. Filed Feb. 21, 1927. Serial No. 169,899. 15 Claims. (Cl. 226—28.)



10. A filler for cigar lighters and the like, including a reservoir, connections adapted to connect said reservoir to a lighter, including means for effecting relative vertical motion between said lighter and the liquid level in said reservoir, whereby said lighter may be both above and below said liquid level, means for controlling the flow of liquid from said reservoir, and means for opening said controlling means when said lighter is below the liquid level and for closing said control means when the lighter is above the liquid level.

15. A filler for cigar lighters and the like containing an absorbent material including, in combination, a reservoir for liquid, flexible connection between said reservoir and said lighter including means adapted to project the lighter below and to raise it above the liquid level in the reservoir and valve control mechanism adapted to permit free passage of liquid to the lighter from the reservoir while the lighter is below the liquid level and to permit surplus liquid to drain back into the reservoir after the lighter is raised above the liquid level and means for closing the connection after said draining.

1,678,495. DIRIGIBLE HEADLIGHT. BERNARD BERGMAN, New York, N. Y. Filed Sept. 17, 1927. Serial No. 220,085. 12 Claims. (Cl. 240—62.)

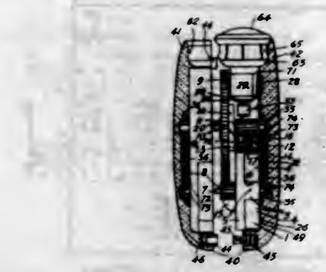


3. In a travelling vehicle provided with steering means, the combination of a pair of pivotally mounted headlights, coupling means whereby said headlights are connected to move in unison, hydraulic means independent of said coupling means for pivotally swinging said two headlights in unison, and means connecting said hydraulic means with said steering means whereby said headlights are pivotally operated coincidentally and in accordance with the steering means.

1,678,496. ELECTROMECHANICAL LAMP. CHARLES BERNARDONI and RENÉ-MARIE BERTHIER, Chambery, Savoy, France. Filed July 28, 1927. Serial No. 208,925, and in Switzerland Aug. 10, 1926. 11 Claims. (Cl. 240—10.5.)

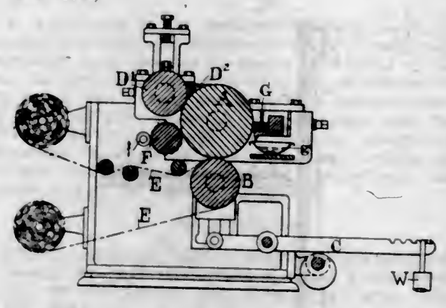
1. In an electro-mechanical lamp the combination, with a magneto-electric machine, a mechanism serving

to put into movement the movable portion of the machine, an incandescent lamp, of a casing enveloping the whole and divided into several shells made of moulded material, the fixed part of the machine, the fixed mem-



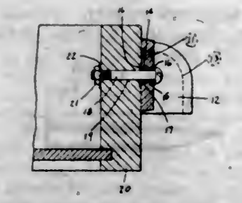
bers of the mechanism, the bearings of the shafts of the machine and of the mechanism, the members connecting the machine to the incandescent lamp being maintained in position solely by their confinement in the material forming the casing during moulding.

1,678,497. PRINTING PROCESS AND APPARATUS THEREFOR. JEHANGIR MANECKJI COOPER, Bombay, India. Filed Oct. 25, 1923, Serial No. 670,632, and in Great Britain Oct. 28, 1922. 8 Claims. (Cl. 101—176.)



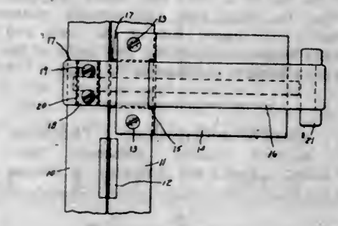
1. The process of printing designs or the like upon paper, cloth, or other material, which comprises, maintaining a body of colouring liquid at a fixed point in contact with the surface of a revolving printing roller, allowing a thin film of said liquid to be carried along with the roller, modifying said film to form a desired design to be printed, and transferring the modified film to the material to be printed.

1,678,498. VITREOUS DRAWER PULL. ALVIE C. CRIMMEL, Hartford City, Ind. Filed Mar. 28, 1927. Serial No. 178,881. 1 Claim. (Cl. 16—124.)



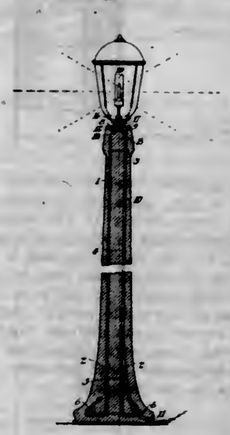
In a compensating drawer pull mounting a substantially integral rigid body consisting solely of a fragile vitreous material and provided with a plurality of substantially spaced openings extending therethrough at considerable distance apart for multiple anchorage upon a support, a relatively rigid one-piece slightly compressible ferrule receivable by each opening and projecting at its ends beyond the adjacent surface of the body, an outwardly directed flange on each end of the ferrule lying wholly beyond the adjacent surface of the body, one flange being engageable by an anchorage member and the other flange being engageable by the support for anchoring the body upon the support, and simultaneously for preventing cracking of the vitreous body immediately adjacent the openings or therebetween in the act of mounting the body upon the support or after the body is mounted and while on said support.

1,678,499. DOORCHECK. FLOYD K. EASTMAN, Kokomo, Ind., assignor to Concealed Door Check Co., Kokomo, Ind., a Corporation. Filed July 2, 1926. Serial No. 120,009. 6 Claims. (Cl. 16—82.)



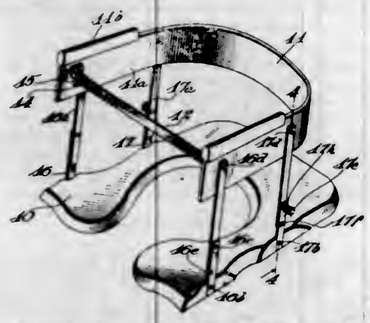
1. A check strap of the character described, comprising a rubberized fabric body portion, a metal strip mounted therein, and a cross head pin secured at one end thereto and adapted to embrace one end of said metal strip while permitting said strip to have longitudinal movement with respect thereto.

1,678,500. CONCRETE LAMP STAND. RUSSELL SCOTT ELLIS, Philadelphia, Pa. Filed Oct. 16, 1926. Serial No. 141,926. 5 Claims. (Cl. 72—85.)



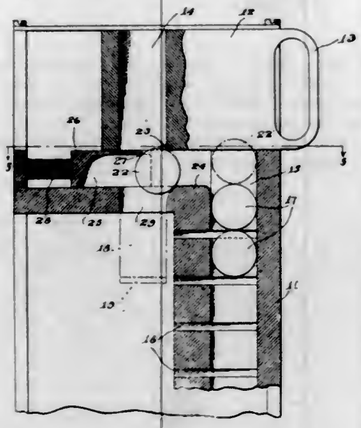
1. A lamp stand formed of concrete having a liquid catch basin at the top thereof, and an axial projection extending upwardly from the bottom of said basin, adapted to receive and support a lamp casing; and means arranged to drain said basin independently of the exterior surface of said column.

1,678,501. NURSERY SEAT. ABRAHAM G. FELDMAN, Chicago, Ill. Filed Apr. 14, 1927. Serial No. 183,812. 13 Claims. (Cl. 4—289.)



1. A nursery seat comprising a base, posts rigidly carried by the latter, a body rest above the base, links dropped from the body rest and pivoted intermediate of their ends to the upper ends of the posts and interlocking means respectively on the free ends of the links and in the intermediate portions of the posts.

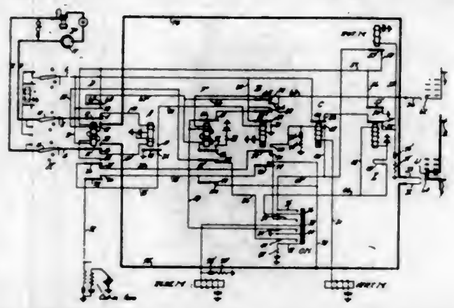
1,678,502. CHECK-CONTROLLED VENDING MACHINE. ARTHUR FORNEY, Baltimore, Md. Filed May 26, 1927. Serial No. 194,325. 4 Claims. (Cl. 194—79.)



1. A coin controlled vending machine comprising a frame having a coin magazine intersected by a plurality of slots perpendicular to the magazine chamber, a manually movable part having a coin slot registering at times with the coin magazine, and a detent adjustable to move in an elected slot and to support a predetermined elected number of coins in the magazine, means including said movable part to employ the upper-post coin for actuating the delivery mechanism and to move the detent from coin supporting position, and means to discharge the employed coin together with the other coins in the magazine.

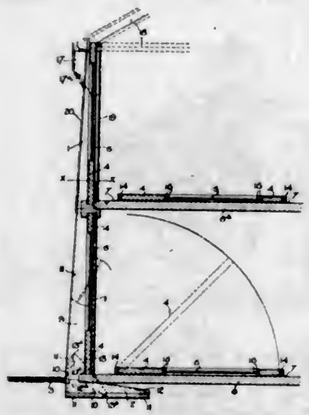
1,678,503. AUTOMATIC TELEPHONE SYSTEM. HERBERT M. FRIENDLY, Chicago, Ill. Filed Oct. 27, 1920, Serial No. 420,017. Renewed June 10, 1925. 78 Claims. (Cl. 179—18.)

1. In an automatic telephone system, a switch terminating a link consisting of telephonic conductors and a private conductor for inclusion in a temporary connection including a successive link between a calling and a called line, means for controlling the switch, and automatically applied means for incapacitating the switch



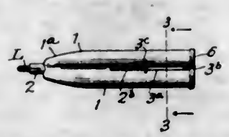
against the control means if the link engaged by the switch has an open private path without restoring the switch from the engaged line.

1,678,504. BUILDING CONSTRUCTION. CHARLES WILLIAM GLOVER, Pinner, England. Filed Mar. 3, 1926, Serial No. 92,036, and in Great Britain Dec. 10, 1925. 4 Claims. (Cl. 72—1.)



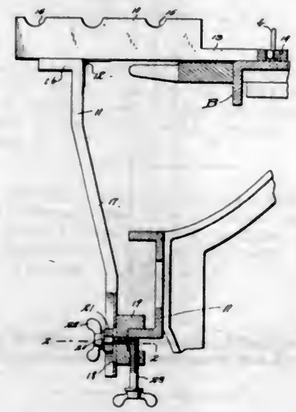
1. A method of erecting buildings which comprises the steps of erecting a plurality of columns having grooves to receive wall sections, moulding a plurality of wall sections on the ground adjacent the columns, allowing the wall sections to set, turning up each section into upright position between two columns, shifting a column to engage each wall section and fixing each column in position when shifted.

1,678,505. FINGER-TIP PENCIL. EUGENE GREGORY, Ann Arbor, Mich. Filed Mar. 5, 1926. Serial No. 92,577. 6 Claims. (Cl. 120—19.)



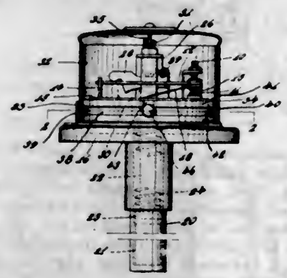
2. A pencil comprising a plurality of outer tubes arranged parallel, an inner tube, and an ejector operating in the inner tube and having an operating member extending through a slot in the inner tube and lying between adjacent outer tubes; said outer tubes being tapered and closed at one end, and such tapered ends converging toward the inner tube.

1,678,506. ROLL RACK. ALBERT M. GUILLET, Charlotte, N. C. Filed May 17, 1927. Serial No. 192,008. 2 Claims. (Cl. 248—20.)



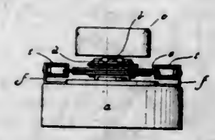
1. A roll rack of the character described comprising a member provided upon its upper face with a transversely extending recess adapted to receive a roll and at its rear end with an opening whereby it may be attached to the upper face of the roller beam of a spinning frame by the usual lever screw, and a leg mounted upon the forward end of said member and extending downwardly therefrom, the leg at its lower end having vertically adjustable means whereby it may be clamped upon the spindle rail of the spinning machine.

1,678,507. AUTOMATICALLY CONTROLLED SWITCH. GEORGE HEGEMAN HART, West Hartford, Conn. Filed Nov. 20, 1924. Serial No. 751,049. 10 Claims. (Cl. 200—168.)



1. In a device of the character described, a body having a cylindrical portion provided with a circumferential groove and a notch entering thereinto, a rotary cover having a skirt portion encircling said cylindrical portion and provided with a lug adapted to enter said notch and engage in said groove, and resilient means in said groove and against which said lug is adapted to engage for preventing accidental removal of the cover from said body, said lug being movable in said groove to permit angular adjustment of said cover, and said resilient means engaging said cover and acting as a drag thereon to hold the cover in any desired position of adjustment.

1,678,508. ELECTRIC SWITCH. GERALD W. HART, West Hartford, Conn., assignor to The Hart Manufacturing Company, Hartford, Conn., a Corporation of New Jersey. Filed Jan. 10, 1923. Serial No. 611,789. 2 Claims. (Cl. 200—166.)



1. A terminal for electric switches comprising a pair of contact arms adapted to receive and grasp between them a switch blade, each arm comprising a plurality of superimposed, slightly spaced apart spring strips, the free ends of the strips of the two arms being bent towards each other to engage the interposed switch blade, and the edges of said bent over ends being interrupted so that each strip has a plurality of contact points adapted to engage said switch blade.

1,678,509. CARLINE REENFORCEMENT AND LOAD-LIFTING ARRANGEMENT. CHARLES HARTER, St. Louis, Mo. Original application filed Feb. 7, 1925, Serial No. 7,560. Divided and this application filed Jan. 25, 1926. Serial No. 83,562. 8 Claims. (Cl. 105—355.)



1. In a railway car, the combination of roof sheets, carlines positioned above said roof sheets, and a beam extending normal to said carlines and supported thereby and separated from said roof sheets.

1,678,510. CARLINE REENFORCEMENT AND LOAD-LIFTING ARRANGEMENT. CHARLES HARTER, St. Louis, Mo. Filed Feb. 7, 1925. Serial No. 7,560. 13 Claims. (Cl. 105—355.)

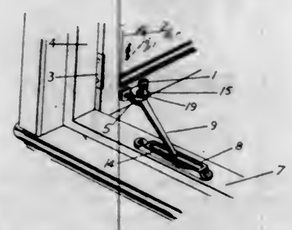


2. In a railway car, the combination of a roof, a plurality of carlines, each comprising a tension and a compression portion, and a member spaced below said roof extending normal to said carlines and secured to each of said tension and compression portions.

1,678,511. STAY FOR CASEMENT WINDOWS AND THE LIKE. EDWARD HEFFERNAN, Gladesville, near Sydney, New South Wales, Australia, assignor to David O. Young Narme, Sydney, Australia. Filed May 4, 1927, Serial No. 188,672, and in Australia May 26, 1926. 1 Claim. (Cl. 292—272.)

Stay means for casement windows and the like comprising a guide with slot therein adapted to be secured on the window or like frame, an arcuately movable arm with a projection fitting and slidable in said guide slot, an integral holed plate on said arm, frictional material embedded in the holes of said plate, a bracket attachable to the window or the like with a groove therein, a plate extension on said bracket with internally screw-threaded boss on said plate extension, a holed pressure plate with a lug adapted to fit the groove in the bracket, and an adjustable pressure regulating screw passable through the holes in the plate on the arm and the pressure plate and

engageable with said boss on the plate extension of the bracket when said plates are assembled so that the plate on the arm will be positioned between the plate extension



of the bracket and the pressure plate, both the plate on the arm and the pressure plate fitting about the boss on the plate extension of the bracket.

1,678,512. HINGE MEANS FOR CASEMENT WINDOWS. JOHN L. C. HEINZ, Chicago, Ill. Filed Aug. 18, 1926. Serial No. 129,891. 7 Claims. (Cl. 16—160.)



1. Hinge means for a casement window, said hinge means comprising means fastened to the window near its upper part for tilting the upper part of the window inwardly from the frame and means apart from said first means to enable moving the lower part of the window upwardly from behind the window stool while the upper part is being tilted, and a lever with means for positively opening and closing the window and for holding it in its opened position and also in its closed position.

1,678,513. LIQUID GAUGE. JOHN B. HOWER and JOSEPH V. ZELLER, Akron, Ohio, assignors to The Akron-Selle Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 5, 1923. Serial No. 622,736. 2 Claims. (Cl. 73—82.)

1. In a liquid level gauge, the combination of a tubular head provided with an inwardly directed flange, said head being adapted to be mounted in an opening in the wall of a liquid reservoir, a dial plate loosely mounted on said flange, a tubular spacing ring on said dial plate, said ring being spaced from the inner wall of said head, an annular member mounted on said ring, said member having an inwardly directed flange, a transparent disc mounted on said flange, and means engaging said dial

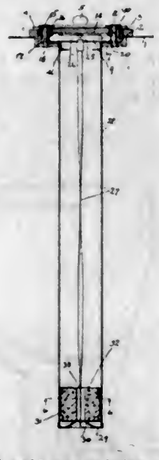
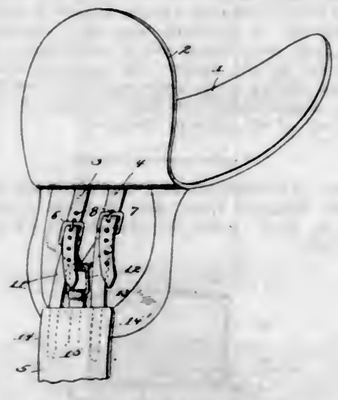


plate and said head, said means being adapted to lock said dial plate, spacing ring, annular member, and disc in tight relation.

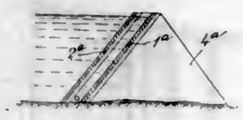
1,678,514. SADDLE GIRTH. WILLIAM P. HULBERT, Middleburg, Va. Filed Nov. 9, 1927. Serial No. 232,066. 8 Claims. (Cl. 54—23.)



1. The combination with a riding saddle having a plurality of billets, and a grith having a plurality of buckets, one to each billet, of an equalizing means connected directly to and connecting all of the buckles to the girth, whereby when the respective buckles and billets are connected and any pair of the respective buckles and billets are tightened, the strain therefrom will be equalized upon all of the buckles and billets.

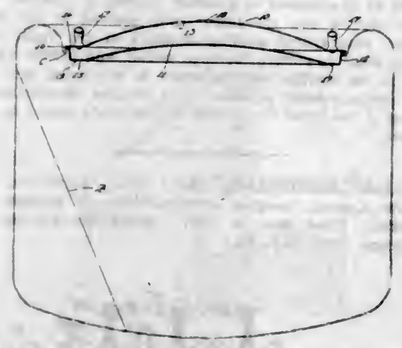
1,678,515. PERMANENT DAM AND WEIR. SIGURD HOYER, Oslo, Norway. Filed Mar. 10, 1925, Serial No. 14,382, and in Norway Mar. 12, 1924. 3 Claims. (Cl. 61—30.)

1. A substantially permanent dam, comprising in combination, a closure section coextensive with the width of a stream, and having another cooperating closure section upstream therefrom at a distance not greater than the height of said first closure section, said closure section having a height not less than the height of said second closure section, the space thereby formed between said closure sections being connected to the stream upstream of the dam, whereby said space is normally filled with a body of water exerting a back pressure on said



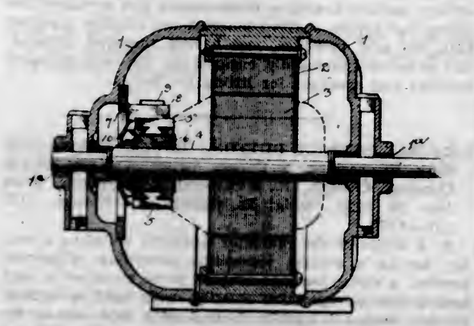
second closure section sufficient to relieve said section of all unbalanced water pressures, said water space being emptiable by the breakdown of said first closure section whereby said second closure section receives the entire stream-pressure.

1,678,516. COVER FOR WASHING-MACHINE TUBS. FRED W. JUENGST, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed Dec. 30, 1926. Serial No. 157,958. 3 Claims. (Cl. 220—40.)



1. A cover for washing machine tubs having a chamber provided with a convex lower wall and a concave upper wall, said lower wall having adjacent its edge a plurality of air holes and said upper wall having venting means at the highest point of the chamber.

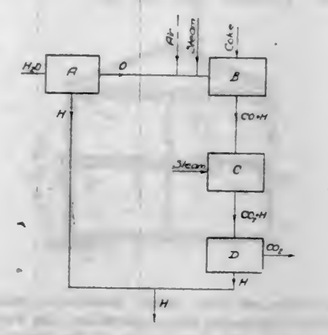
1,678,517. SHORT-CIRCUITING DEVICE FOR MOTOR COMMUTATORS. EVERETT P. LARSH, Dayton, Ohio. Filed Mar. 5, 1920. Serial No. 363,402. 26 Claims. (Cl. 172—279.)



11. In a short circuiting device for commutators, a series of commutator bars to be interengaged, an annular series of contact slugs in juxtaposition thereto and ra-

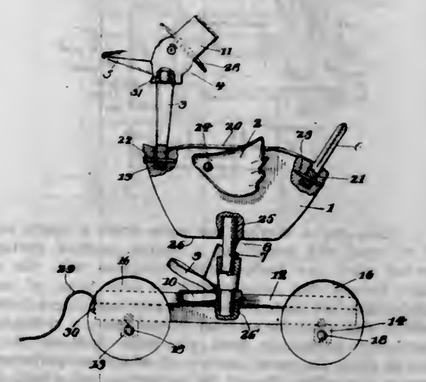
dially movable by centrifugal influence, elongated outer margins upon the slugs inclined to the axis of rotation of the commutator, and a yielding spring tensioned member engaging the inclined faces in the outward movement of the slugs against the tension of which said slugs are radially movable into engagement with the commutator bars.

1,678,518. PROCESS OF MAKING A MIXTURE OF NITROGEN AND HYDROGEN. FRANS GEORG LILJENROTH, Stocksund, Sweden. Filed Oct. 17, 1922, Serial No. 595,171, and in Sweden Dec. 3, 1921. 2 Claims. (Cl. 23—7.)



1. Method of producing a gas mixture containing substantially hydrogen and nitrogen in certain proportions, which comprises electrolytically decomposing water into oxygen and hydrogen, using the oxygen obtained together with steam and atmospheric air for continuously operating a water gas generator, converting the carbon monoxide of the water gas generated by means of steam into carbon dioxide while setting hydrogen free, removing the carbon dioxide and mixing the remaining gas with the hydrogen obtained in the electrolysis, the supply of electrolytic oxygen, atmospheric air and steam to the water gas generator or being so regulated that the nitrogen of the generator gas will be about one third by volume of the total quantity of hydrogen produced.

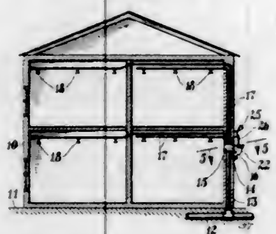
1,678,519. FIGURE WHEELED TOY. GEORGE BUFORD LYNCH, Tucson, Ariz. Filed Oct. 29, 1927. Serial No. 229,716. 6 Claims. (Cl. 46—45.)



1. A wheeled toy comprising a wheeled platform having certain of its wheels eccentrically mounted and the remainder of its wheels concentrically mounted, a figure

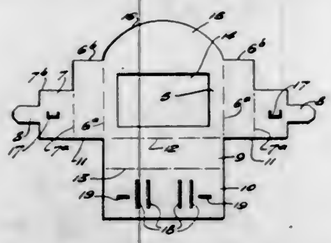
simulating the appearance of a duck supported from and above said platform and including a body portion shiftable on a vertical pivot and provided with a pair of spaced sockets, a tail piece shiftable on a horizontal pivot and extending above said body, a neck shiftable on a horizontal pivot and extending above said body, said tail piece and neck extending into said sockets, and a shiftable head movable on a vertical pivot and carried by the neck piece.

1,678,520. FIRE SAFETY DEVICE FOR DWELLINGS AND FACTORIES. ALEXANDER MERCER, Wainfleet, Ontario, Canada. Filed May 19, 1927. Serial No. 192,605. 3 Claims. (Cl. 169—19.)



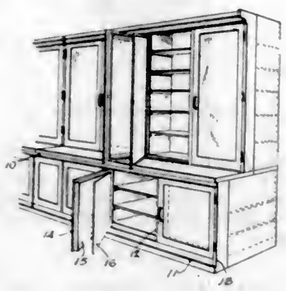
1. A device of the class described, comprising a water supply, a casing with a chamber, the water supply being connected with the bottom of the casing, sprinkler connections to different parts of a building, and connected to the top of the chamber, valves operated by stems in these connections, and adjacent the top of the chamber, levers pivoted to the chamber and connected to the stems, a cartridge holder with cartridges secured to the outside of the building, the free end of the levers projecting over the cartridges, fuse wires to different parts of the building, and means for exploding a cartridge individually as certain of the fuse wires burn, the shot from the cartridge moving the adjacent lever and causing certain sprinklers to operate.

1,678,521. DISPLAY BOX. WILLIAM J. MITCHELL, Waco, Tex. Filed Aug. 4, 1926. Serial No. 127,066. 1 Claim. (Cl. 206—44.)



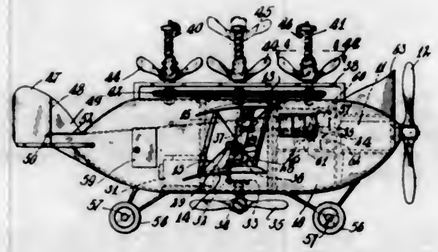
A blank for a display box made from a single sheet of material and comprising a central portion having a curved edge, two double flaps contiguous with the side edges thereof, the outer section of each being of lesser height than the inner section and each carrying a reduced locking flap upon its extreme central edge, a rectangular double-flap extending from the edge opposite to the curved edge, the outer section of which is apertured to receive the locking flap of the respective first double flap, and cooperative locking means carried by the said outer sections and all of the double flaps for holding the flaps interengaged and the locking flaps against sliding and unlocking.

1,678,522. STORE SHELVING FRONT UNIT. JAMES B. MURDOCH, Milwaukee, Wis. Filed Apr. 29, 1927. Serial No. 187,458. 3 Claims. (Cl. 211—148.)



3. A separate store-shelving front-unit constituted of a base front section and an upper front shelf section, with a ledge interposed between the said sections and designed to be attached to a fixture already in position, the upper section and the ledge being secured to the said fixture, with spaced guiding members at the under side of the ledge to receive the base section and permit variation in its position with relation to the ledge, and the said sections being provided with shallow compartments glazed at the front for display of the goods stored in the fixture.

1,678,523. AEROPLANE. LOUIS NAGY, Hamilton, Ontario, Canada, assignor of three-tenths to Michael Daradice. Filed Sept. 3, 1927. Serial No. 217,346. 3 Claims. (Cl. 244—15.)



1. In a device of the class described, a propeller operatively connected with a prime mover and arranged for lifting the device, shafts connected for rotation together with the said propeller, and having threaded portions, and propellers threadedly engaged on the said threaded portions and arranged for lifting the device.

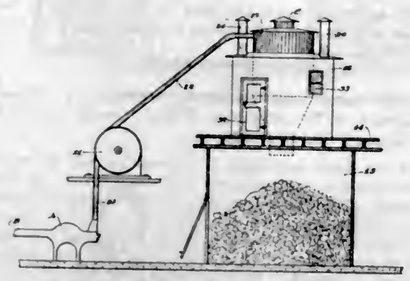
1,678,524. CONTROL BUTTON. EMIL J. NIELSEN, Oak Park, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 29, 1922. Serial No. 603,927. 27 Claims. (Cl. 116—129.)

8. A device of the character described including a button having a central rearwardly extending cylindrical portion, a spring member adapted to be mounted in said button and in operative relation with said cylindrical portion, means integrally formed with said button for retaining said spring member in its mounted position, a member for engaging the opening in said cylindrical portion and to be engaged by said spring member so that when said button is moved in a rotary direction the said second member will rotate with said button, said spring member adapted to permit the button to be removed from said second member by pulling the said button away from



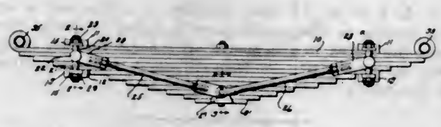
said second member, and a member integrally formed with said spring member for indicating the extent to which said second member has been rotated.

1,678,525. METHOD AND APPARATUS FOR CLEANING AND SEPARATING HAIR. EINAR J. OLSEN, Minneapolis, Minn., assignor of one-half to Sealy Mattress Company of Minnesota, St. Paul, Minn., a Corporation of Delaware. Filed July 3, 1926. Serial No. 120,489. 14 Claims. (Cl. 19—65.)



1. The method of cleaning hair consisting in passing the hair through a picker, a separator, drawing and forcing the hair up and into a cyclone and agitating the hair in the cyclone in a manner so as to cause the short hair to be thoroughly separated from the longer hair, the separation being accomplished by shaking the hair as it passes through the cyclone and providing vertical passageways for the short hair to fall through so as to accomplish a thorough separation of the short hair and dirt from the long hair.

1,678,526. VEHICLE SPRING. JAMES PARKHILL, Flint, Mich. Filed Jan. 20, 1926. Serial No. 82,411. 3 Claims. (Cl. 267—48.)



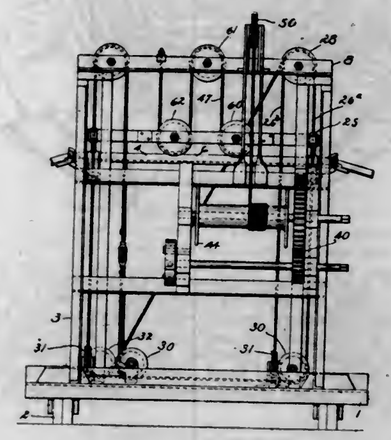
1. A leaf spring provided with means embracing some of its leaves at a fixed distance from the center of the spring, said means including a toggle joint normally in alinement, and a distance rod connected to the center of said joint and to a fixed point vertically displaced from the center of deflection of the spring.

1,678,527. DEVICE FOR PROJECTING MARBLES AND THE LIKE. NORA D. PAYNE, New York, N. Y. Filed Dec. 8, 1927. Serial No. 238,560. 4 Claims. (Cl. 273—129.)



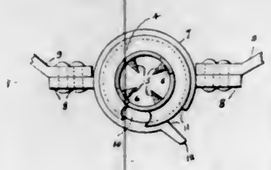
1. A projecting device of the class described having a head, a staff and operating means, said head providing a pocket adapted to receive and locate the object to be projected; said operating means comprising an actuating rod, and a lever pivotally mounted within said head operatively associated with said actuating rod.

1,678,528. LOADING ELEVATOR. DONALD W. PERIN, Brookline, Mass., assignor, by mesne assignments, to American Freight Service, Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 12, 1926. Serial No. 87,867. 16 Claims. (Cl. 187—11.)



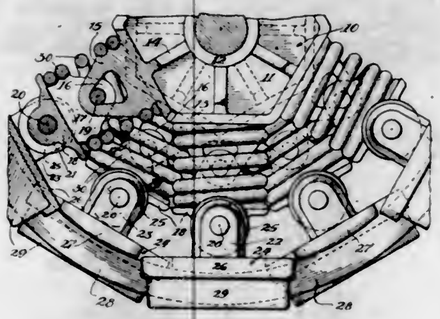
10. In an elevating mechanism, a movable member with portions at the corners thereof running in uprights constituting a fixed framework, lifting mechanism having a drum and a flexible member windable upon said drum and connected with one side of the movable body, said flexible member running over a pulley secured to a connecting member between two uprights and running under a pulley upon the movable member with its end fixed to the said cross-member between the two uprights.

1,678,529. STEADYING DEVICE FOR ROTATABLE FLAG STANDARDS OR POLES. ROBERT B. PETERS, Brooklyn, N. Y. Filed Oct. 5, 1927. Serial No. 224,183. 1 Claim. (Cl. 116—174.)



A steadying device for flag poles, comprising an annular flange member forming a guide channel, rigidly attached to the flag pole, said channel being fitted with ball or roller bearings, a ring member rotatably mounted in said guide channel, cooperating cut out portions in the flanged member and in the ring member, to permit ingress and egress of the halyards when the said cut out portions register, a guide lip on the lower end of ring member; arms are provided diametrically opposite each other on the outer surface of ring member to which are fastened braces the opposite ends of which may be secured to a suitable stationary structure, holding the ring member set but permitting the flange member to revolve with the standard or pole therein, without the braces interfering with the halyards.

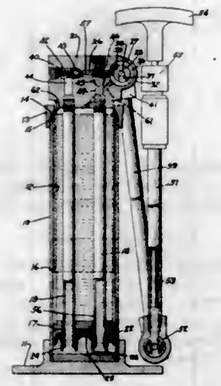
1,678,530. WHEEL. DARIUS T. PHILLIPS, Chicago, Ill. Filed May 28, 1926. Serial No. 112,192. 12 Claims. (Cl. 152—31.)



1. In a wheel, the combination of a hub portion, a series of tread members circumferentially arranged around the hub, mountings for pivotally connecting said tread members with said hub portion, and a continuous tire carried by said tread mountings and lying in laterally adjacent relation to said tread members and supplementing the ground contact afforded thereby, substantially as described.

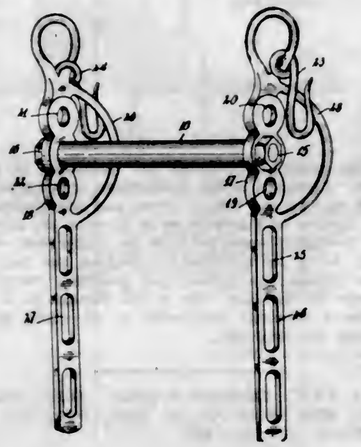
1,678,531. LIFTING JACK. TIMOTHY C. POMEROY, Minneapolis, Minn. Filed Oct. 1, 1925. Serial No. 59,909. 6 Claims. (Cl. 138—9.)

1. A lifting jack comprising in combination, a cylinder adapted to contain an inelastic fluid, a hollow plunger movable in said cylinder, a lifting head on said plunger having fluid passages connecting it with said cylinder and with the interior of said plunger, valves in said passages for controlling fluid flow therethrough when the plunger is raised, a pump having a pivot in said head, a by-pass in said pivot and said head for permitting the return of the fluid from the cylinder to the interior of said plunger, and means operable by rotation of said pivot to open one



of said valves to allow the fluid in the cylinder to flow through said by-pass and return to said plunger to lower the jack.

1,678,532. BIT FOR HORSES. TERENCE Q. PREECE, Westbury, N. Y. Filed Nov. 6, 1925. Serial No. 67,247. 2 Claims. (Cl. 128—223.)

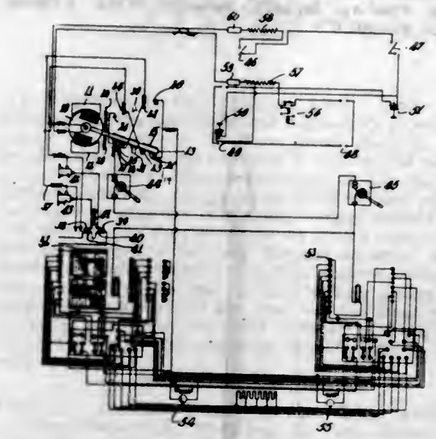


1. In a bit of the class described, a mouthpiece, a copper coating on said mouth piece, adapted to slowly react with the saliva in the mouth of a horse forming copper salts for stimulating the salivary gland to prevent drying of the mouth of the horse.

1,678,533. ELECTRIC-CAR-CONTROL APPARATUS. PHILIP A. RENTA, New York, N. Y. Filed Aug. 17, 1925. Serial No. 50,566. 8 Claims. (Cl. 191—8.)

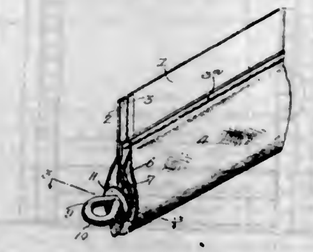
1. In a device of the class described, the combination of car motors, power leads therefor, a polarized relay having a projecting contact arm, a pair of contacts on each side of the contact arm, stationary contacts straddling the contact arm and arranged four on each side, so

that with the contact arm in one position, the pair of contacts on one side of the contact arm engage with the four stationary contacts on the same side, and with the contact arm in another position the pair of contacts on the other side of the contact arm engage with the other four stationary contacts, every one contact on the contact arm being engageable with two adjacent contacts of the said stationary contacts, a connection from the first contacts of the said two rows of four contacts, counting from the end of the contact arm, to the current



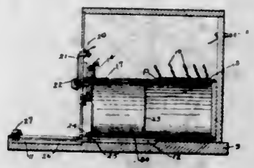
return of the car motors, a connection from the fourth contacts of the said two rows of four contacts to the current supply of the car motors, a connection from the second contact of one row to the third contact of the other row and to one of the power leads, and another connection from the third contact to the second contact and to the other of the power leads, so that upon a change in polarity of the power leads, the contact arm moves from one position to another to not alter the polarity of the current supply to the same car motors.

1,678,534. MEANS FOR SECURING DRAW STICKS IN WINDOW SHADES. EDWARD REUKAUF, Jr., Philadelphia, Pa., assignor to Carey-McFall Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 19, 1928. Serial No. 247,862. 6 Claims. (Cl. 156—26.)



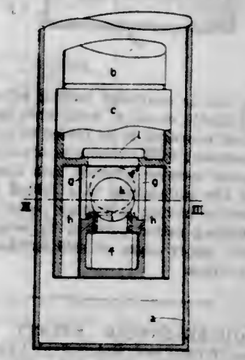
1. In combination with a window shade having a hem formed therein and a drawstick located in said hem, means for securing the draw-stick in said hem comprising a flap formed by folding the shade material over the end of the draw-stick; a retaining element adapted to be passed through said flap and to be secured in said draw-stick for securing the flap in place.

1,678,535. TUNING DEVICE. DEWEY EUGENE ROCKENFELDER, Montpelier, Ohio. Filed Mar. 23, 1925. Serial No. 17,714. 4 Claims. (Cl. 171—119.)



1. A tuning device for radio circuits, comprising a primary winding and a secondary winding arranged in inductive relation, a pair of metallic elements disposed one in operative relation to each winding, each of said metallic elements being equipped at one end with an annulus, the latter having an aperture therein, levers for moving the metallic elements, one end of each of which is bent at right angles and engaged in the aperture of one of the annuli, said levers being independently operable to selectively move said metallic elements, and means for varying the inductance of each winding.

1,678,536. CIRCULATION OF LIQUIDS IN PREHEATERS AND STEAM GENERATORS. ADOLF SCHNEIDER, Kelheim, Germany, assignor to Niederbayerische Cellulosewerke, Kelheim-on-the-Danube, Germany, a Corporation of Germany. Filed Sept. 28, 1925, Serial No. 59,119, and in Germany July 22, 1925. 2 Claims. (Cl. 122—318.)

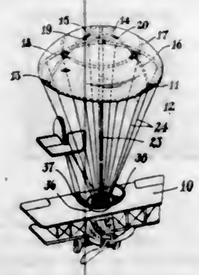


1. In a steam generator, a Field tube comprising an outer steam and water tube and an inner down flow tube, a chamber at the lower end of said down flow tube, the said chamber comprising compartments through which the liquid flows downwardly, an inner compartment in communication with said first-mentioned compartments and in which the direction of flow of the liquid is reversed, a non-return valve in said inner compartment, and further compartments in said chamber and through which the liquid descends into the outer steam and water tube.

1,678,537. PARACHUTE. MAX SCHONBRUN, New York, N. Y. Filed July 20, 1927. Serial No. 207,054. 4 Claims. (Cl. 244—21.)

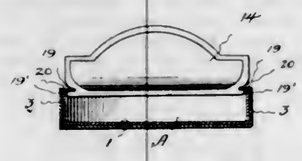
1. A parachute of the class described comprising an aluminum tubular ring member, radially extending tubular arms communicatively connected with said ring member, radially extending tubes communicatively connected with said arms, a lower ring comprising flexible sections of tubular material communicatively connected with said

radially extending tubes, a conduit connected with said aluminum ring adapted to supply compressed air thereto and to said lower ring and radially extending arms for



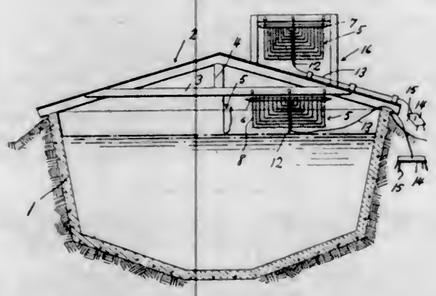
expanding said parachute from closed to open position, and ropes attached at one end to said lower ring and at the other end to a wing of an aeroplane.

1,678,538. DISPENSING AND DISPLAY CONTAINER OR BOX. ARNOLD J. TANNER, North Haven, Conn. Filed July 19, 1926. Serial No. 123,371. 3 Claims. (Cl. 206—44.)



3. A folding box or container having an outer member and an inner foldable member; said inner member having lateral extensions arranged to be folded to form side walls of the inner member; said extensions bearing on the side walls of said outer member whereby both members through pressure alone are maintained in a folded condition and said inner member having a display portion arranged to be held in a folding raised position by means comprising inwardly turned upper edges of said extensions engaging said display portion.

1,678,539. OIL-RESERVOIR SAFETY APPLIANCE. GEORGE LEON TICEHURST, Bakersfield, Calif. Filed Aug. 17, 1926. Serial No. 129,766. 1 Claim. (Cl. 173—31.)



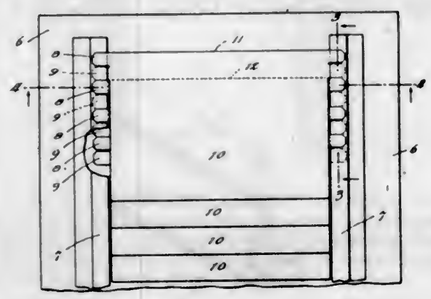
In means for the purpose described, an overhead support, an electricity gathering device suspended from the support and having a horizontal bar with pointed ends, a vertical spindle bar pendent from the first named bar and pointed at its lower end, and U-shaped wires in vertically nested relation connected at their ends to the first named bar and at intermediate points of their length to the pendent bar and having at intervals in their length closely arranged cross pieces with pointed ends, and a conductor connected to the pendent bar of said device for grounding electric current therefrom.

1,678,540. PIPETTE. SIMEON TRENNER, Philadelphia, Pa. Filed Apr. 28, 1925. Serial No. 26,472. 4 Claims. (Cl. 23—292.)



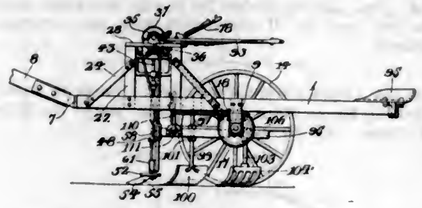
1. A pipette comprising a chamber, and a capillary passage terminating abruptly in said chamber so that the area of the passage at the point where it enters the chamber is substantially the same as that of the rest of the passage.

1,678,541. VISIBLE CARD INDEX. ALWIN VON AUW, Brooklyn, N. Y., assignor to Boorum & Pease Company, Brooklyn, N. Y., a Corporation of New York. Filed July 29, 1926. Serial No. 125,694. 10 Claims. (Cl. 129—16.)



1. A visible index member comprising a body in combination with a duplex ear projecting laterally from each side of the body and integral therewith, the two lobes of each ear being at different heights and the upper edge of each ear merging into the upper edge of the body and each ear being of its maximum vertical dimension at its juncture with the body.

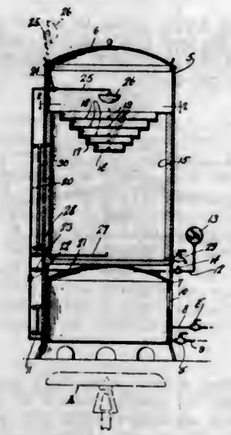
1,678,542. COTTON-CHOPPING MACHINE. WALTER WALLACE WATKINS, Moulton, Ala. Filed Feb. 15, 1928. Serial No. 254,452. 5 Claims. (Cl. 97—17.)



1. A machine for the purpose set forth a mobile supporting structure, a vertically and horizontally adjustable carrier bar supported therefrom, plant chopping and ground working elements connected to said bar and bodily shiftable therewith, means independent of said bar for vertically adjusting said chopping element, and means for angularly adjusting said ground working element.

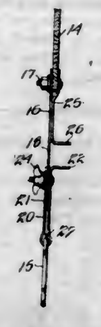
2. In a machine for the purpose set forth a mobile supporting structure, a vertically disposed actuating shaft driven from said structure, a radially disposed cutter at the lower end of the shaft, ground working devices arranged one in advance of the other and positioned rearwardly of said cutter, means for vertically adjusting the cutter and means for angularly adjusting the ground working devices.

1,678,543. COFFEE PERCOLATOR. REID WATSON, Lawrenceville, N. J. Filed Sept. 24, 1927. Serial No. 221,837. 1 Claim. (Cl. 53—3.)



In a percolating device of the character described, a water chamber, a coffee chamber, said water chamber adapted to be disposed over a suitable heating unit, a steam conducting pipe extending from the water chamber, said pipe having a discharge end within the upper portion of the coffee chamber, a branch pipe connecting the steam pipe with the bottom portion of the coffee chamber, whereby coffee from the bottom of the coffee chamber will be conducted through the steam pipe and into the upper portion of the coffee chamber, a coffee container arranged within the upper portion of the coffee chamber and under the discharge end of the steam pipe, said container being provided with a stepped wall converging toward the central opening in its bottom, and foraminous plates arranged within the coffee container and upon the steps formed in the wall of said container, said plate being adapted to support a quantity of coffee.

1,678,544. HARNESS STRAP. WILLIAM T. WHITAKER, Greenville, S. C. Filed Sept. 29, 1927. Serial No. 222,837. 6 Claims. (Cl. 139—88.)

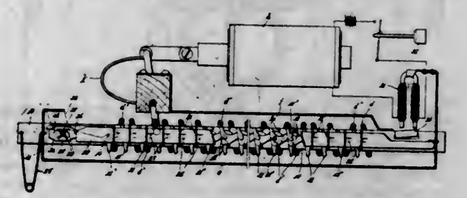


1. A harness strap for looms comprising a fabric end piece, a hook, and means for adjustably connecting the fabric end piece and hook comprising a slotted serrated bar, a member for engagement therewith, means for binding the bar and member together, and finger pieces carried by said bar and said member whereby they may be engaged by the finger and thumb and the strap shortened, substantially as set forth.

1,678,545. PROCESS OF MAKING RUBBER BRUSHES. ROBERT MORSE WITHYCOMBE, Sydney, New South Wales, Australia. Original application filed Mar. 31, 1925, Serial No. 19,708. Divided and this application filed Feb. 2, 1926. Serial No. 85,572. 3 Claims. (Cl. 300—21.)

1. The method of making brushes of that type which include a spirally wound rubber strip formed with filaments along one of its longitudinal sides, comprising winding the strip upon itself, while at the same time tensioning the nonfilamentous side with a progressively varying tension.

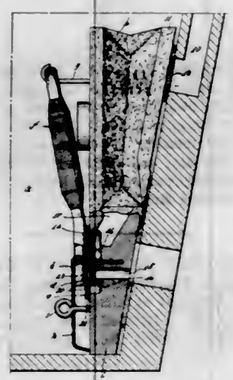
1,678,546. ORGAN STOP ACTION. JOHN T. AUSTIN, Hartford, Conn., assignor to The Austin Organ Company, Hartford, Conn., a Corporation of Connecticut. Filed Jan. 12, 1926. Serial No. 80,807. 16 Claims. (Cl. 84—345.)



10. In combination, a plurality of elements each constituting a part of a respective stop action and each having an "on" position and an "off" position, a longitudinally

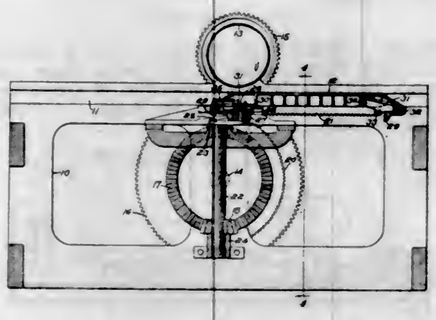
movable trace having a plurality of loosely mounted actuators thereon adapted to be simultaneously set by engaging the same with the set elements upon one movement of the trace in a given direction, and means for simultaneously and automatically locking said actuators in set position when said trace is so moved, said locking means holding said actuators in locked position upon the next movement of said trace in the same direction and then releasing said actuators.

1,678,547. ELECTROPNEUMATIC VALVE MECHANISM. BASIL G. AUSTIN, Hartford, Conn., assignor to The Austin Organ Company, Hartford, Conn., a Corporation of Connecticut. Filed May 24, 1926. Serial No. 111,171. 2 Claims. (Cl. 84—338.)



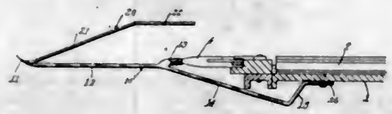
1. In an electro-pneumatic valve mechanism, a chamber, a plurality of ports leading from said chamber, a perforated cover over said chamber, a magnet over said cover, a fixed centrally located guide and positioning pin passing through said chamber, and an armature in said chamber between said ports and cover and having a centrally disposed opening receiving said pin whereby said armature is solely guided in its movements by said pin, said cover having a centrally disposed aperture receiving said pin whereby said cover is held in position.

1,678,548. MECHANICAL MOVEMENT. FRANK R. BELLUCHE, Mansfield, Mass. Filed Aug. 31, 1923. Serial No. 660,332. 13 Claims. (Cl. 101—282.)



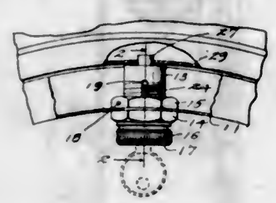
1. In a press, the combination of a cylinder; a bed; mechanism for reciprocating said bed, including two racks carried by said bed and segments meshing with said racks, respectively, and rotated in opposite directions, respectively; gearing connecting said cylinder and said segments and affording a ratio of two revolutions of said cylinder to one revolution of each gear segment per cycle of the press, and mechanism for moving said racks lengthwise into and out of engagement with their respective segments.

1,678,549. PICK-UP GRAIN GUARD. PETER H. BERGEN, Goessel, Kans. Filed Apr. 10, 1925. Serial No. 22,147. 1 Claim. (Cl. 56—313.)



In combination with a grain binder, the binder platform and the cutter bar thereof, a pick-up guard embodying a substantially wide bar having its forward extremity tapered and extended upwardly, a rod secured to the forward end of the bar and extending upwardly and laterally, the free end of the rod overlying the cutter bar, a socket member connected with the substantially wide bar and extended rearwardly to fit over the guard of the cutter bar, said substantially wide bar extending downwardly from the socket member to a point beyond the point of connection between the platform and cutter bar, where the substantially wide bar extends upwardly and laterally engaging the under surface of the platform, and means for securing the laterally extended portion to the platform.

1,678,550. RIM LOCK. CARL G. BLOOM, Detroit, Mich., assignor of one-half to Cosimo M. Minardo, Detroit, Mich. Filed Nov. 29, 1927. Serial No. 236,513. 1 Claim. (Cl. 70—90.)

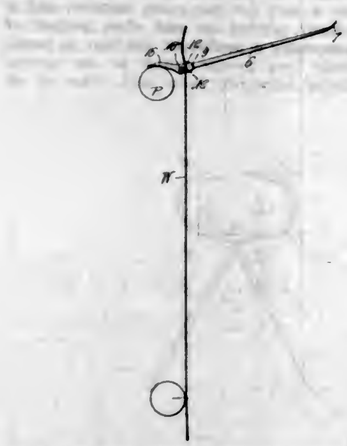


In combination with a wheel felly having a channel in its periphery, an opening formed in the base of the channel, a sleeve extended through said opening and having its exterior screw-threaded at its inner end, nuts upon the sleeve engaging the felly at the base of the channel and at the inner end of the felly to retain the sleeve in position, a lock barrel longitudinally shiftably mounted in the sleeve and held against rotation with relation thereto, a locking part associated with the barrel and adapted to engage in an opening in the sleeve in one position of the barrel and an axial projection upon the outer end of the barrel extending beyond the outer end of the sleeve when the barrel is in the last named position.

1,678,551. WIRE CUTTER. CHARLES BONOS, Easton, Pa. Filed Sept. 19, 1927. Serial No. 220,511. 2 Claims. (Cl. 140—123.6.)

1. A wire cutter comprising a relatively long handle lever having a laterally projecting wire-cutting tooth near its front end, the incisal edge of said tooth being

disposed forwardly, and a relatively short post-engaging pressing lever fulcrumed to said front end of said handle lever, said pressing lever having a rear end for

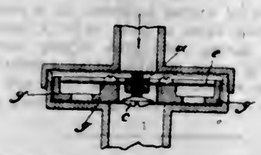


forcing the wire against said wire-cutting tooth when said pressing lever is swung about its fulcrum by engagement with a post.

1,678,552. METHOD OF LAYING TRAMWAY LINES. ALEXANDRE BOUILLON, Liege, Belgium. Filed Sept. 21, 1925, Serial No. 57,694, and in Belgium Sept. 26, 1924. 2 Claims. (Cl. 238—9.)

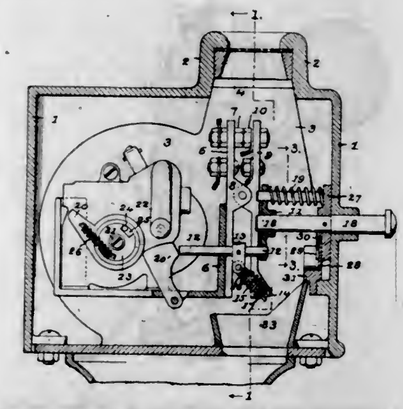
2. A tramway road-bed comprising a concrete foundation member having an oblong recess having its top open for substantially its full area and being defined by an unbroken, in a horizontal plane, wall of concrete, in combination with a wooden block of less length than said recess snugly fitting therein, and wedging means bearing against an end of said block and the opposed end wall of said recess to hold said block against substantial movement in said recess, said block and wedge being introduced into said recess through the open top thereof and in assembled relation therein lying between vertical planes defining the vertical profile of the said recess.

1,678,553. SOUND-PRODUCING INSTRUMENT. WILLY BRANDEGGER, Stuttgart, Germany. Filed Aug. 18, 1926. Serial No. 129,991, and in Germany Aug. 27, 1925. 4 Claims. (Cl. 116—142.)



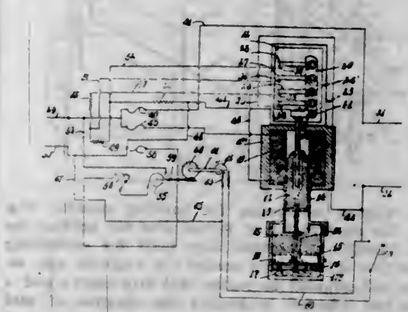
1. Sound producing instrument comprising an air tube, a plate-shaped body facing an end of said tube, a ring surrounding said body, resilient arms connecting said body with said ring and resilient arms extending inwardly from said ring, the inner ends of said inwardly extending arms being fixed to hold said body in position.

1,678,554. COIN-CONTROLLED ELECTRIC SWITCH. GEORGE A. BURGESS, Waukegan, Ill., assignor to Chicago Hardware Foundry Company, North Chicago, Ill., a Corporation of Illinois. Filed May 2, 1927. Serial No. 188,189. 3 Claims. (Cl. 194—78.)



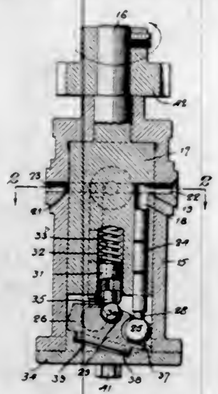
1. In a time limit electric switch mechanism, the combination of a make and break switch of an electric supply circuit, a manually actuated push rod adapted to move said switch to its circuit make position, a power operated push rod connected to said switch and adapted to move the same to its circuit break position independent of the manually actuated push rod, a coin or token holder and support arranged in a path between said push rods to provide an operative connection between said rods and so that the manually actuated rod may function to move the switch mechanism to its circuit make position, and a chute for conducting a coin or token to said holder and support, said chute having an opening in its rear wall for the passage and escape of an excess coin or token.

1,678,555. CIRCUIT CLOSER FOR ELECTRIC ALARMS. MANUEL T. CABRAL, Honolulu, Territory of Hawaii. Filed June 16, 1926. Serial No. 116,346. 2 Claims. (Cl. 200—97.)



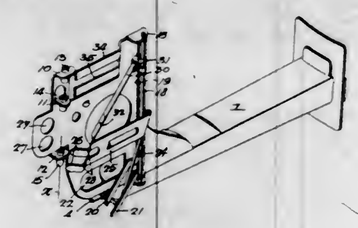
1. A device of the class described, comprising a panel board, an L-lever pivotally mounted thereon, means for normally maintaining the L-lever in an upright position, a plurality of horizontal contact levers attached to the long arm of the L-lever, by means of pintle pins, stops secured to the L-lever serving as a repose against the contact levers, springs for tensioning the contact levers, the contact arms being engageable with contacts, and the short arm of the L-lever being movable to disconnect the contact arms from said contacts.

1,678,556. PUMP. ERNEST D. COPSON, Linwood, Pa., assignor to The Viscose Company, Marcus Hook, Pa., a Corporation of Pennsylvania. Filed June 15, 1927. Serial No. 199,056. 1 Claim. (Cl. 103—162.)



In a pump of the type described, a hollow casing, a cam plate forming a closure for one end of the casing, a driven rotary block seated against one end of the casing, a piston drive rotor seated against the cam plate at the opposite end of the casing, pistons mounted in the rotor and working in the block and means for thrusting said block and rotor against their respective seats, said means comprising a bearing ball seated in one face of the rotor and a spring pressed plunger accommodated in the adjacent face of the block, said plunger having a hard metal inset engaging the bearing ball.

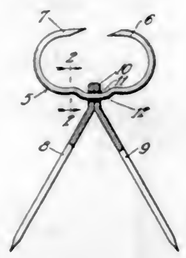
1,678,557. TRIP MECHANISM FOR KNITTING-MACHINE STOP MOTIONS. ALFRED CRAWFORD, New Brunswick, N. J., assignor to Crawford Manufacturing Company, New Brunswick, N. J., a Corporation of New Jersey. Filed Apr. 13, 1926. Serial No. 101,739. 9 Claims. (Cl. 66—159.)



1. In tripping mechanism for knitting machine stop motions, the combination of thread eyes for guiding the knitting thread; a rotatable trip shaft for controlling the operation of said stop motion; a weighted arm secured to and adapted to rotate said trip shaft; and a resilient arm adapted to control the rotation of said trip shaft and to absorb the vibrations on said thread between said thread eyes.

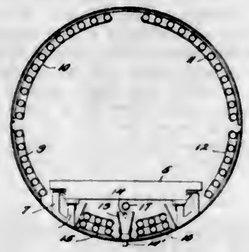
1,678,558. HOG RING AND THE LIKE. WALTER V. CURTIS, Davenport, Iowa, and JAMES B. CURTIS, Chicago, Ill. Filed Aug. 6, 1927. Serial No. 211,201. 4 Claims. (Cl. 119—135.)

1. In a device of the class described, the combination of a ring adapted for engagement with the snout of a hog, said ring comprising a curved member having its ends inturned towards each other and pointed, and having its central portion provided with an offset which extends outwardly from the general curvature of the ring and acts as a seat for the prong member, and a prong member freely pivoted on said offset portion of the ring, and comprising a section of rod bent to establish two relatively long prongs united at the central portion, and flaring outwardly from each other at an



angle of substantially fifty degrees, the central portion of said prong member comprising a straight section of double thickness extending in a direction to substantially bisect the angle between the prongs, the ends of the prongs being sharpened, and the straight section aforesaid being perforated with a hole of sufficient size to freely accommodate the offset portion of the ring, and to allow the prong member to swing freely thereon, substantially as described.

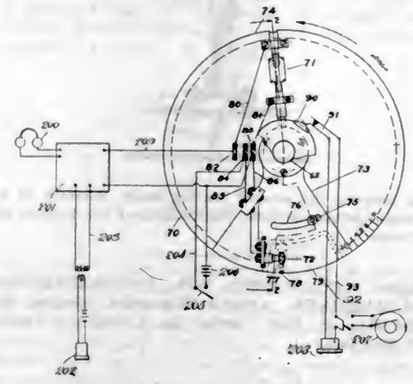
1,678,559. DRYING MATERIALS. JOSEPH P. DEVINE, Buffalo, N. Y. Continuation of application Serial No. 124,317, filed July 23, 1926. This application filed May 28, 1927. Serial No. 195,088. 10 Claims. (Cl. 34—30.)



1. The method of drying materials in a closed receptacle by subjecting them to heat under a sustained reduced pressure during the entire drying operation in the presence of a vapor maintained at a relatively high humidity for an extended period of time and removing vapor from the receptacle during the drying operation.

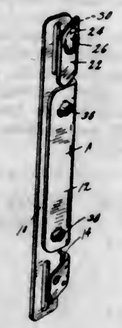
1,678,560. APPARATUS FOR MEASURING DISTANCE. HERBERT GROVE DORSEY, Gloucester, and ROBERT LONGFELLOW WILLIAMS, Newton, Mass., assignors to Submarine Signal Corporation, Boston, Mass., a Corporation of Delaware. Filed Nov. 12, 1925. Serial No. 68,694. 4 Claims. (Cl. 177—386.)

4. A system for measuring depths of water including a rotating member, means for driving the same at a constant and known speed, a sound producer, a sound receiver, means whereby rotation of the rotating member causes periodic operation of the sound producer, circular scales, two visual indicators carried by said rotating member and moving in cooperation with the scales, one of said indicators for deep sounding, the other



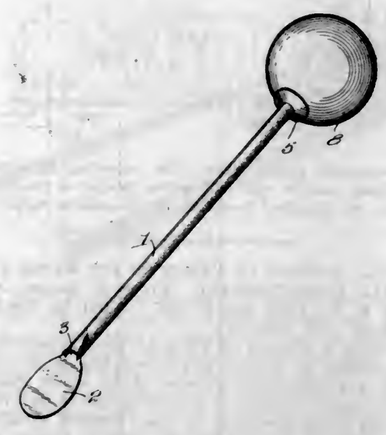
of said indicators capable of producing a line of light on the scale in response to the operation of the sound receiver for shallow sounding, an audible indicating means operative in response to operation of the sound receiver to cooperate with the deep sounding indicator, said deep sounding indicator adapted to be continuously illuminated, and means for selecting which indicator is to be used.

1,678,561. AWNING BRACKET. WILLIAM G. DUNN, Clarinda, Iowa. Filed Dec. 10, 1927. Serial No. 239,087. 2 Claims. (Cl. 156—44.)



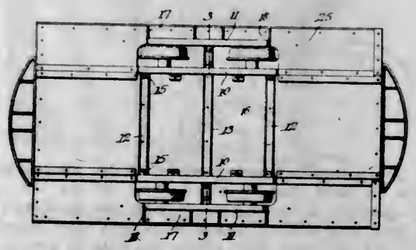
1. An awning bracket, comprising an elongated body member, and laterally extending bendable roller-supporting and awning frame-supporting ears adjacent to the opposite ends thereof, respectively, the body member having a portion folded inwardly upon itself between said ears to form a yielding channel-shaped portion between said ears.

1,678,562. MEDICINAL INSTRUMENT. LOUIS M. EDENS, Cabool, Mo. Filed Aug. 10, 1927. Serial No. 212,064. 2 Claims. (Cl. 128—266.)



1. A device of the class described comprising a tubular stem, a tongue depressor formed at one end of the stem, a tubular holder removably fitting in the other end of the stem, said holder having a cup-shaped flange at its outer end and its inner end being cut away to receive powder or the like.

1,678,563. MINE CAR. GLENN E. EDMUNDS, Columbus, Ohio, assignor to The Bonney-Floyd Company, Columbus, Ohio, a Corporation of Ohio. Filed July 29, 1927. Serial No. 209,358. 3 Claims. (Cl. 105—364.)

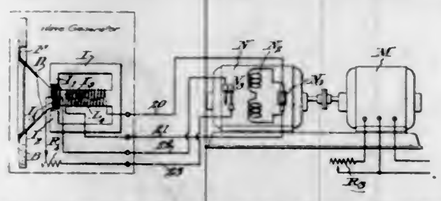


1. In a mine car, a truck comprising inner and outer longitudinally extending sill bars, the outer sill bars having substantially horizontal top web portions extending laterally and outwardly at substantial distance beyond the vertical plane of the sill bars and body side walls supported upon said outwardly extending webs.

1,678,564. METHOD FOR AIDING AUDITION. BYRON E. ELDRED, Kensington, N. Y. Filed Dec. 10, 1924. Serial No. 755,077. 2 Claims. (Cl. 128—38.)

1. A method of improving the acoustics or audibility qualities of a predetermined space for persons of difficult

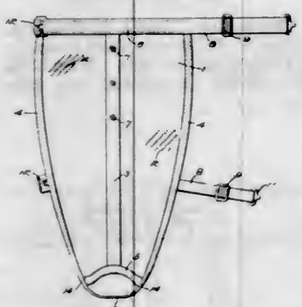
hearing therein, which method consists in maintaining in the atmosphere of said space a continuous succession of rhythmical air waves of such amplitude as to cause pressure variations greater than those occurring in normal unamplified sounds, the said waves having a frequency adjacent the marginal frequency of the audible range.



1,678,565. METHOD OF UTILIZING AIR WAVES FOR AURAL KINESITHERAPY. BYRON E. ELDRED, New York, N. Y. Filed July 7, 1927. Serial No. 204,148. 1 Claim. (Cl. 128—38.)

A method of utilizing air waves for aural kinesitherapy which consists in emitting into surrounding space a continuous and sustained succession of air waves characterized by their harmonious wave form and of such force producing characteristics as to cause pressure variations greater than those occurring in ordinary sounds, said waves having a frequency adjacent the marginal frequency of the audible range.

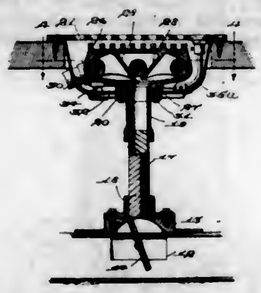
1,678,566. STOCKING PROTECTOR. ROBERT M. GALLANT, Boston, Mass., assignor of one-half to Walter S. Berry, Boston, Mass. Filed May 17, 1926. Serial No. 109,555. 4 Claims. (Cl. 36—2.)



1. A woman's stocking protective device comprising a shield or cover element fashioned to fit the calf and ankle portions of the leg, and terminating rearwardly of the shin, said element formed of flexible sheet material and being in major part elastic, at least in the direction transversely thereof, securing means extending from one side edge of said shield or cover element near its top and having a fastener, cooperating fastener-engaging means at the opposite side edge of said element, similar securing and fastening means therefor at a lower portion of said side edges, and a cross-member at the bottom portion of said element adapted to be engaged beneath the wearer's shoe.

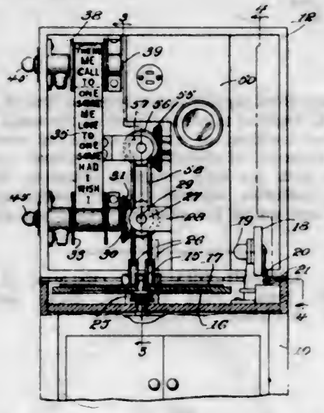
1,678,567. AUTOMOBILE HEATER. HENRY L. HUBBARD, Cleveland, Ohio. Filed Feb. 8, 1926. Serial No. 86,886. 1 Claim. (Cl. 257—136.)

An automobile heater including an upper grate, heating elements below the grate including a series of tubes, a header with which the tubes communicate at one end, having a lower intake opening, a pipe for supplying heated gases having connection with the lower opening of the header, and a series of baffle members depending in the header and converging toward its intake opening from



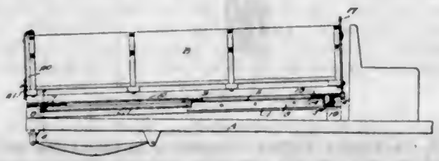
points between the several heating tubes, whereby to insure substantially uniform distribution of the heat to the said tubes.

1,678,568. ATTACHMENT FOR SOUND-REPRODUCING MACHINES. ANDREW HUMPHREY, Glenlyon, Pa. Filed May 28, 1926. Serial No. 112,355. 2 Claims. (Cl. 88—16.2.)



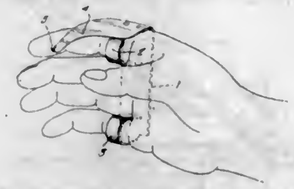
1. In a device of the class described, record driving means for a sound reproducing machine, a traveling word carrying element, means for driving said element from the driving means first named, driving means for a moving picture machine, and devices for imparting motion to the driving means last named from the driving means of the traveling element.

1,678,569. DUMP TRUCK. WILLIAM JANSSEN, Lagrange, Tex. Filed Oct. 26, 1927. Serial No. 228,887. 3 Claims. (Cl. 298—12.)



1. A truck having a rearwardly and downwardly sloping track thereon, a shaft at the rear end of the track having rollers thereon, a body, track forming members at the rear of the body with which the rollers on the shaft engage, some of said members having upwardly extending parts forming stops for the rollers, a shaft at the front end of the body having rollers thereon engaging portions of the track of the truck, vertically arranged rollers carried by the body for engaging portions of the track on the truck and vertically arranged rollers on the track forming part of the truck for engaging portions on the body.

1,678,570. FRUIT-GATHER'S KNIFE. WILLIAM H. LONGCOR, Dinuba, Calif., assignor of one-half to Ola Nialson, Dinuba, Calif. Filed Aug. 1, 1927. Serial No. 210,006. 1 Claim. (Cl. 30—24.)

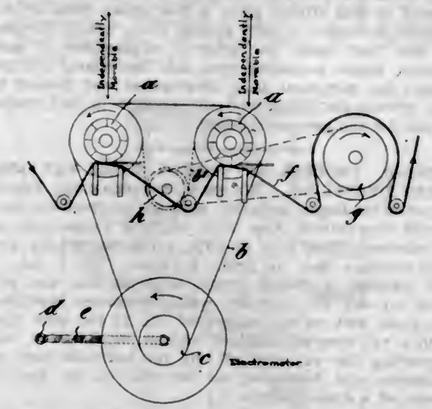


In a device for the purpose set forth, a plate having inwardly extending loops at the ends thereof, a cutting blade secured to one end of the plate arranged over one of the loops and extending from the plate in the same direction as the loop, said blade having its cutting edge concaved and the outer end thereof rounded upwardly and inwardly.

1,678,571. PROCESS OF PURIFYING SUGAR SOLUTIONS. FRIEDRICH WILHELM MEYER, Wismar, Germany. Filed May 10, 1927, Serial No. 190,378, and in Germany July 7, 1926. 6 Claims. (Cl. 127—50.)

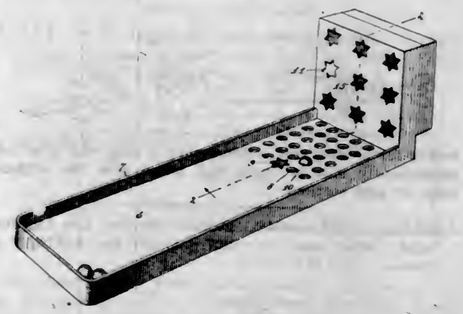
1. In a process of purifying and decolorizing sugar solutions the steps which consist in heating a sugar solution to a temperature of approximately 90° C., adding a prolific quantity of lime, so that the solution is decolorized by such addition, neutralizing the solution by means of a suitable acid, filtering the solution thus neutralized and increasing the surface tension of the solution by an addition of a small quantity of a high grade decolorizing carbon.

1,678,572. FABRIC-SHEARING MACHINE. JOSEPH MONFORTS, Munich-Gladbach, Germany. Filed Apr. 13, 1925, Serial No. 22,897, and in Germany May 13, 1924. 2 Claims. (Cl. 26—15.)



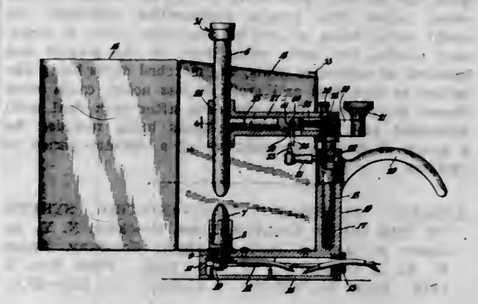
1. Driving means for fabric shearing machines having a plurality of independently movable knife cylinders, comprising pulleys on said cylinders, a single belt engaging all said pulleys, and a swingably mounted electromotor having a pulley hanging in said belt.

1,678,573. AMUSEMENT DEVICE. YOZO NAKASHIMA, Brooklyn, N. Y. Filed Sept. 24, 1927. Serial No. 221,828. 2 Claims. (Cl. 273—123.)



1. In an amusement apparatus a playing table, recesses in the table comprising a target for a played ball, certain of the recesses visibly distinguishable from the remainder being designated as prize-winning recesses, each prize-winning recess being provided with a contact which is adapted to be closed when a ball is positioned in th recess, a plurality of signals operable to display a visible positive signal, there being as many signals as there are prize-winning recesses, a plurality of circuits, each circuit comprising one contact and one visible signal, a relay operable when a plurality of visible signals are positively displayed but non-operable when a single visible signal is positively displayed, a circuit common to the relay and all of the visible signals, and an audible signal operable under control of the relay.

1,678,574. PHOTOGRAPHIC ELECTRIC LAMP. HENRY NIEMEYER, New York, N. Y. Filed May 12, 1927. Serial No. 190,686. 5 Claims. (Cl. 176—103.)

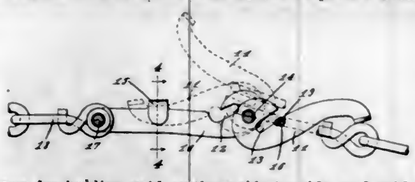


1. In an electric arc lamp having upper and lower carbon electrodes, a sleeve surrounding the upper electrode and having an integral hollow portion, a spring pressed plunger in the hollow portion for frictionally gripping the electrode, a cam member carried by the plunger, and means engaged by the cam member to withdraw the plunger from contact with the electrode when the sleeve is moved downward.

1,678,575. CHAIN FASTENER. JAMES L. PAYTON, Jefferson City, Mo. Filed Sept. 3, 1927. Serial No. 217,390. 3 Claims. (Cl. 24—69.)

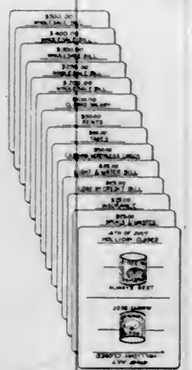
1. A chain fastener of the character described comprising a pair of hook-like sections pivotally connected together, each of said sections having a slot, one of said sections having a notch communicating with its slot and adapted to initially receive a link of the chain and hold the latter free of the other section, while the first mentioned section is being moved about its pivot to a posi-

tion at one side of the other section, and subsequently guiding the link into the slots of the respective sections,



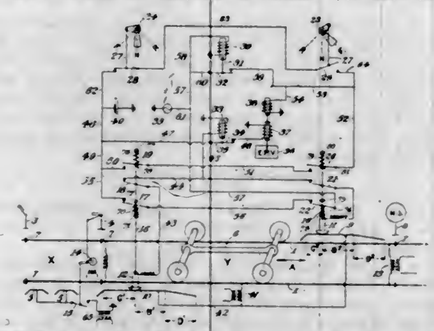
means for holding said sections side by side, and said link subsequently moving from said notch into the aligned slots of said section.

1,678,576. CARD GAME. ERNEST PHILIPP, Los Angeles, Calif. Filed Aug. 10, 1927. Serial No. 212,036. 2 Claims. (Cl. 273—152.)



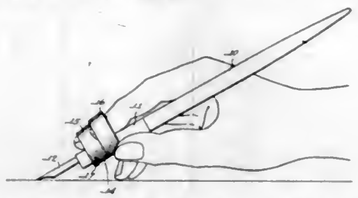
1. A game of cards representative of store keeping, comprising a series of groups representative of sales as credit for a number of business periods as days of the week, the several cards being of varying denominational value, other card groups representing expenses, the credit series being of greater aggregate value to represent profits, the cards being dealt to the players and balanced at successive deals, the matched cards being discarded at each deal and profit or loss noted, cards being drawn successively from the deck after each deal until exhausted and the several balances being recorded for a group of deals representative of a definite period of business.

1,678,577. AUTOMATIC TRAIN-CONTROL SYSTEM OR THE LIKE. OSCAR A. ROSS, Brooklyn, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Nov. 6, 1916. Serial No. 129,812. 2 Claims. (Cl. 246—49.)



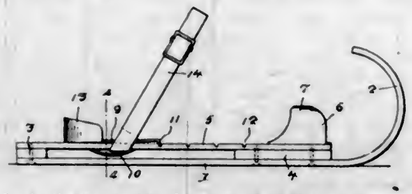
1. In an automatic train control system for trains of the multiple car type in which a plurality of cars of each train are equipped at each end thereof with manually operable car control means which manually operable means may assume a forward, a reverse and a neutral position; the combination with automatic train control mechanism for each car so equipped; and means for automatically rendering the automatic train control mechanism of a car inactive when the manually operable car control means at both ends of such car assume the neutral position.

1,678,578. ATTACHMENT FOR WRITING IMPLEMENTS. JOSÉ MANUEL UTRILLA, Guanabacoa, Habana, Cuba. Filed Dec. 1, 1926. Serial No. 151,990. 3 Claims. (Cl. 120—103.)



1. An attachment for writing implements including a body portion having a bore adapted to encircle the implement, finger receiving portions integrally connected with the body and comprising ring members disposed in offset longitudinal and transverse planes relatively to each other, the ring portions being internally tapered and of approximately oval cross sectional shape.

1,678,579. SKATE. PERLO VINCENT, Gloversville, N. Y. Filed July 28, 1927. Serial No. 209,088. 2 Claims. (Cl. 208—184.)



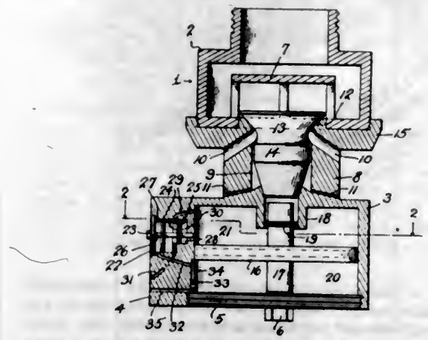
1. A skate of the character described comprising an elongated relatively broad flat runner having a curved forward portion, blocks fixed to said runner and being arranged in spaced relation with respect to each other, a stirrup plate secured to said blocks and being provided with transverse grooves, a toe piece secured to the forward portion of said stirrup plate, a heel clamp mounted for slidable movement on said stirrup plate, means included in said heel clamp for selective engagement in said grooves, means depending from said heel clamp and arranged for movement in a longitudinal slot formed in said stirrup plate, and a strap arranged in said means as and for the purpose specified.

1,678,580. PROCESS OF DYEING WITH VAT AND AZO DYESTUFFS. WILHELM WINTERHALDER, Frankfort-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed May 15, 1926, Serial No. 109,351, and in Germany May 20, 1925. 8 Claims. (Cl. 8—5.)

1. Process of dyeing cotton, artificial silk, and silk with vat and azo dyestuffs, which comprises grounding the goods with an azo component and at the same time with a vat dyestuff dissolved without esterification, and converting the vat dyestuff into the insoluble form by oxidation, and developing the ice color on the fiber by means of a diazo solution.

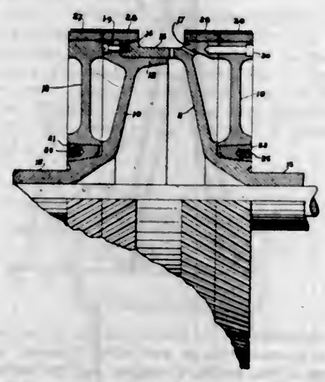
1,678,581. LOCOMOTIVE CYLINDER COCK. SAMUEL D. WORK, Minerva, Ohio. Filed Nov. 18, 1926. Serial No. 149,259. 1 Claim. (Cl. 121—134.)

In a locomotive cylinder cock device, a body member formed at one end with a steam inlet and provided at its other end with a chamber, the intermediate portion of the body having a bore therein terminating in a valve seat communicating with the steam inlet portion, the intermediate portion further having steam outlet ports, a longitudinally movable valve within said bore cooperating with said seat, a piston within said chamber having a stem engageable with said valve for unseating the same when the piston moves in one direction, a stop projectable into said chamber to hold said piston against reverse movement, and air pressure operated means for moving said stop, comprising differential pistons slidably mounted at one side of said chamber portion of the body, and mounted upon a piston rod constituting said stop, and air pressure means cooperating



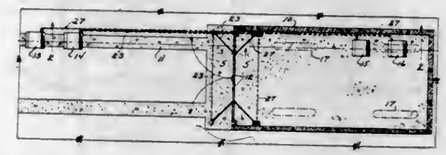
with said differential pistons for moving the same and the stop on which they are mounted, said last means comprising a passage communicating with the space defined between the differential pistons and with said chamber at one side of the piston therein, a compressed air inlet through the chamber at the other side of the piston, a compressed air inlet into the space between the differential pistons, a slide valve carried by one differential piston for controlling the flow of air through said first named passage, a passage communicating with the space at the outer end of the chamber within which the differential pistons operate and communicating with the first named chamber, and a slide valve carried by said first named piston for controlling communication through said last named passage.

1,678,582. GEAR STRUCTURE. ROBERT C. ALLEN, Essington, Pa., assignor to Westinghouse Gear and Dynamometer Company, a Corporation of Pennsylvania. Filed May 10, 1921. Serial No. 468,295. 7 Claims. (Cl. 74—7.)



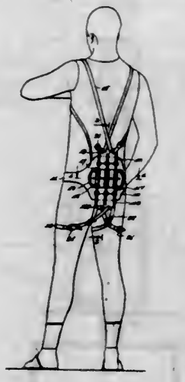
1. A gear comprising interfitting rotor portions, separate gear rims carried by the rotor portions, a gear rim disposed adjacent to each of the first-named rims whereby continuous teeth may be provided on pairs of rims, and means carried by the rotor portions for supporting and holding the last-named gear rims in position.

1,678,583. GARAGE-DOOR MECHANISM. EMMETT BEAMS, Louisville, Ky. Filed Dec. 10, 1926. Serial No. 153,945. 1 Claim. (Cl. 268—35.)



In combination with the swingably mounted doors at the entrance to a building, door operating means comprising a plurality of treadle members, one pair of said members located in the approach to the building and another pair located within the building, said treadle members being normally upwardly spring pressed, flexible means connecting one of the treadle members of each pair with the doors to swing the doors in one direction, flexible means connecting the other treadle member of each pair with the doors to swing said doors in an opposite direction, spring pressed latch means normally holding the doors closed, and means connecting the flexible means and latch means.

1,678,584. BODY BRACE. EARL BRANSON, Bannack, Mont. Filed Aug. 18, 1926. Serial No. 130,013. 1 Claim. (Cl. 2—44.)

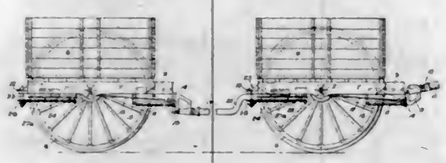


A body brace of the character described, including a back pad, a plurality of vertically disposed casings, means mounting said casings on said back pad, springs housed in said casings, members on said springs at both the top and bottom thereof, series of snap hooks above and below the springs and detachably engaging said members on the springs, elements to which the respective series of snap hooks are secured, leg straps connected with the lower one of said elements, and shoulder straps connected with the upper one of said elements.

1,678,585. CART. THOMAS A. CONLON, Silver Spring, Md. Filed Dec. 22, 1925. Serial No. 77,079. 9 Claims. (Cl. 280—33.2.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L. 625.)

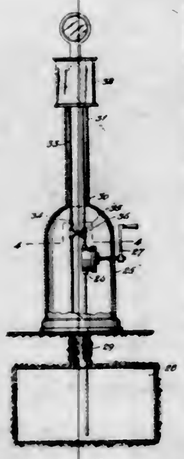
1. A cart embodying an axle, side frames secured to the axle, a central draft rail on the axle, a socket member on the front end of the draft rail, an apertured bracket on the rear end thereof, an adapter having an

offset head swiveled in the socket, a removable pin passing diametrically through the socket and adapter, a drawbar pivoted to the head of the adapter, removable means for rigidly connecting the drawbar to the adapter, said drawbar offset intermediate its ends, the forward portion formed with an aperture and terminating in a lunette,



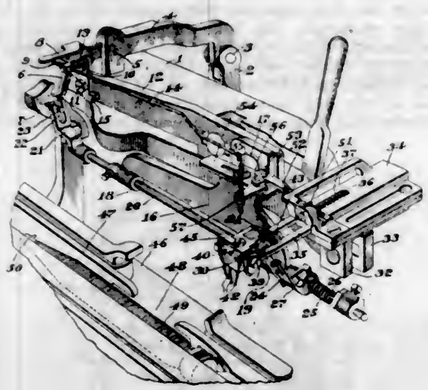
an arcuate guide consisting of spaced rails secured at the rear of the cart to the side frames and draft rail and substantially in the plane of the socket member, radial arms secured to the extremities of the guide, and a keeper plate carried by said arms and disposed beneath the bracket on the draft rail.

1,678,586. GASOLINE-DISPENSING DEVICE. JAMES B. CRAVEY and PAUL R. PIERSON, Montgomery, Ala. Original application filed Apr. 16, 1927, Serial No. 184,389. Divided and this application filed Nov. 7, 1927. Serial No. 231,761. 2 Claims. (Cl. 221—99.)



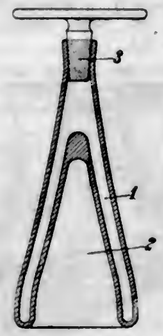
1. In a dispensing device, a base casing, a pump mounted therein, a tank below said pump, a pipe connected to the suction side of said pump and leading to said tank, a delivery pipe leading from said pump, a branch leading from the delivery pipe back to the tank, and a three way valve at the junction of the delivery pipe and branch, said three way valve being housed entirely within the casing and spaced from the walls thereof and including an operating stem also entirely within and spaced from the walls of the casing, said base casing having an opening therein alined with said stem whereby to permit the insertion of a valve operating tool to engage the stem, and a guide pipe leading from said opening to said valve stem to guide the tool inserted through the opening.

1,678,587. FEELER MECHANISM FOR LOOMS. EDWARD A. CUNNIFF, Waltham, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed June 24, 1927. Serial No. 201,070. 10 Claims. (Cl. 139—269.)



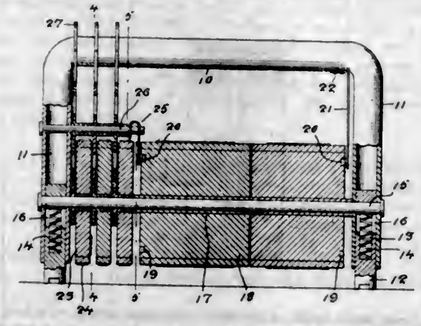
1. In a feeler mechanism for looms, the combination of a feeler carrier mounted for movement towards and from the front of the loom, a shuttle having the upper portion of one of its side walls cut away to form a feeler receiving passage, a tilting weft fork feeler mounted on the feeler carrier to extend downwardly transversely of the shuttle and adapted to enter said feeler receiving passage to engage the mass of filling in the shuttle and to be tilted thereby on detecting beats until the filling is substantially exhausted, and means for moving the weft fork feeler and feeler carrier frontwardly when the weft fork feeler fails to be tilted on a detecting beat.

1,678,588. BOTTLE UTILIZABLE AS A VASE BY TURNING IT OVER. FRANCIS DE GERSON, born RAEDSFELD JEANNE BERTHIER, Paris France. Filed July 20, 1926, Serial No. 123,772, and in France Oct. 24, 1925. 2 Claims. (Cl. 215—1.)



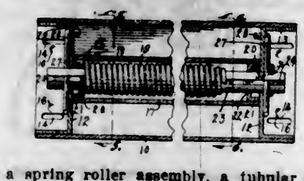
1. In combination, a bottle having, a reduced neck portion, a concave bottom and sides disposed closely to the bottom of the bottle, a stopper for the bottle mouth, and an enlarged head carried by the stopper of a diameter approximating the largest portion of the bottle whereby to support the latter in an inverted position.

1,678,589. ROTARY BOX STAMP. GEORGE DIFFEE, Hamilton, Mont. Filed Nov. 25, 1927. Serial No. 235,734. 3 Claims. (Cl. 101—110.)



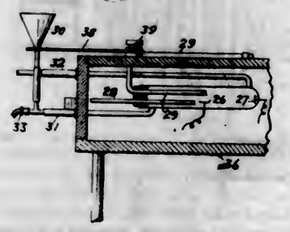
1. In a device for the purpose set forth, a frame, spring influenced legs telescopically received in the ends of the frame, a shaft journaled longitudinally on the frame, and providing a stop for the spring influenced legs, indicia bearing rollers revoluble on the shaft, spring means holding the rollers from free turning on the said shaft, other indicia bearing rollers on the shaft, and lever operated means for turning said rollers.

1,678,590. SPRING-ROLLER ASSEMBLY. HARRY DIXSON, Des Moines, Iowa. Filed July 10, 1926. Serial No. 121,704. 5 Claims. (Cl. 156—39.)



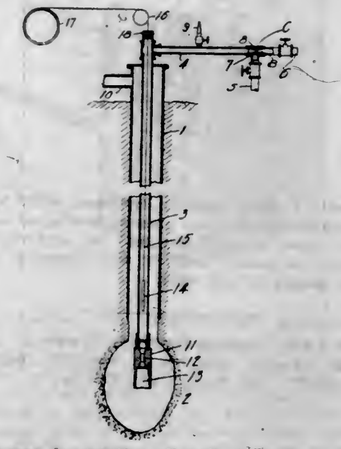
1. In a spring roller assembly, a tubular casing angular in cross section, having ends adapted to be mounted therein at different distances apart, a tubular roller, a shaft journaled in the ends of the roller projected through the ends of the casing, having an end slotted, a coil spring in the roller having an end attached thereto and an end received in said slot in said shaft, removable means for preventing sliding movement of the shaft through the casing end to release the last-named spring end, and means for preventing rotation of the shaft comprising a rod received in said slotted end and projected into an angular corner of the casing.

1,678,591. QUANTITATIVE DETERMINATION OF NAPHTHALENE IN ILLUMINATING GAS. WALTER H. FULWEILER, Wallingford, Pa., assignor to The U. G. I. Contracting Company, Philadelphia, Pa., a Corporation of Delaware. Original application filed Jan. 12, 1922, Serial No. 528,861. Divided and this application filed June 29, 1922. Serial No. 571,717. 2 Claims. (Cl. 175—183.)



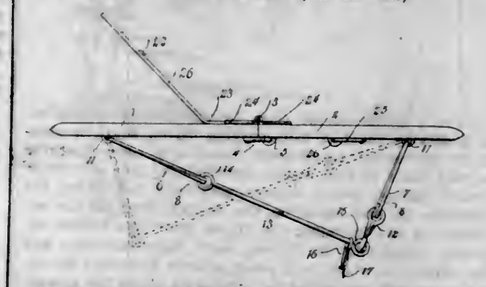
2. In apparatus of the class described the combination of a pair of conductivity cells provided with fixed electrodes and means accessible from the exterior of the cells and adapted to vary the capacity of the cells, whereby the constants of the cells can be adjusted to equality.

1,678,592. ART OF TREATING OIL WELLS. JAMES B. GARNER and GEORGE B. LEYDEN, Pittsburgh, Pa., assignors to Standard Oil Development Company, a Corporation of Delaware. Filed Feb. 3, 1923. Serial No. 616,780. 3 Claims. (Cl. 166—17.)



3. In means for treating oil wells to increase production, the combination of a tubing, a burner carried thereby and having a narrow passage merging into a flaring orifice, and ignition means adapted to be lowered through the tubing and the burner.

1,678,593. FISHING AND RETRIEVING OTTER. JOHN HANSEN, Milltown, Mont. Filed June 30, 1927. Serial No. 202,678. 13 Claims. (Cl. 43—49.)

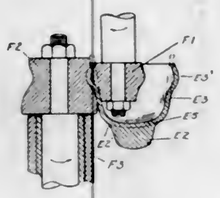


1. An otter comprising an elongated buoyant body relatively thin and having its lower portion weighted to cause the body to float in a substantially vertical plane, brackets pivotally connected with said body adjacent its ends and adapted to be swung towards and away from one side of said body, and a rod extending between said brackets and having one end pivotally connected with one of said brackets and its other end releasably and pivotally connected with the other bracket, said rod constituting a member to which an attaching element carried by a line may be engaged and having movement longitudinally thereon.

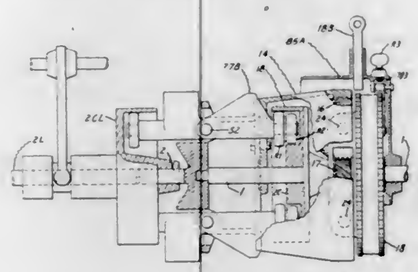
1,678,594. METHOD OF FORGING INSULATOR CAPS. GEORGE H. HIGGINS, Cortland, N. Y., assignor to The Brewer-Titchener Corporation, Cortland, N. Y., a Corporation of New York. Filed Oct. 27, 1927. Serial No. 229,177. 8 Claims. (Cl. 78—81.)

1. The method of making from bar or plate stock, a one-piece supportable insulator cap of the undercut socket

type or the like, and which method consists in swaging up said stock into a cup-like shape comprising a tubular skirt portion having an open lip end with the other end thereof closed by a crown wall provided with an exteriorly extruded supporting lug means, and then introducing therein a groove forming implement which by virtue of a radially exerted swage pressure is adapted to expand the lip region of said skirt into an outwardly bulged groove that is radially undercut with respect to the final lip end opening of said skirt.



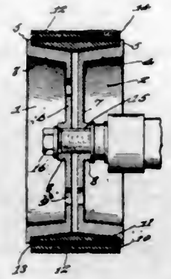
1,678,595. POWER-CONTROL DEVICE. GAIL H. HINES, Lansing, Mich. Filed Nov. 29, 1927. Serial No. 236,571. 28 Claims. (Cl. 74—34.)



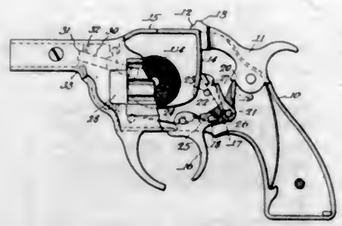
1. In a device of the class described, the combination of a driving shaft, a load-carrying driven shaft, a planetary differential gear-assembly positively connecting the driving shaft to said driven shaft, planet-gear revolution control means, clutch means operatively connecting the ensemble on and including the driving shaft to the ensemble on and including the driven shaft, the former ensemble comprising the driving shaft, the planet-gear and the carrier in which said planet-gear is journaled for rotation as well as carried for revolution about the driving shaft, and the gear in driving connection with the driving shaft and the planet-gear, the latter ensemble comprising the load-carrying driven shaft and the gear secured thereon, said clutch means including a centrifugally operating weight free to be moved against centrifugal resistance and in positive connection with one of said ensembles and means in positive connection with the other ensemble to move said weight against centrifugal resistance whereby to vary gradually the ratio of speed transmission.

1,678,596. ABRASIVE WHEEL. JOSEPH L. HOWLAND, Cleveland, Ohio. Filed Feb. 4, 1927. Serial No. 165,945. 2 Claims. (Cl. 51—190.)

1. An abrading wheel of the character described comprising circumferentially divided sections adapted to be associated to form the wheel, one of said sections being provided with openings, a resilient band adapted to surround said sections when associated, a flange formed with each section and adapted to cooperate for retaining the resilient band on said sections, a flexible band between the sections and resilient band, a fabric drilling for reinforcing said resilient band, an abrasive band surrounding said resilient band, and said openings being adapted to receive a tool for separating said sections as and for the purpose specified.

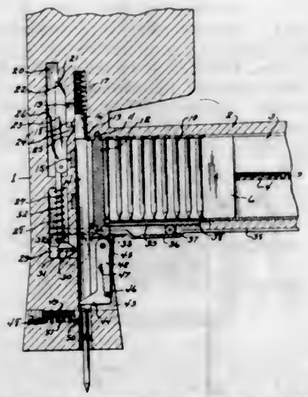


1,678,597. TOY PISTOL. JOSEPH D. KILGORE, Columbus, Ohio, assignor to Kilgore Foundry Co., Columbus, Ohio, a Corporation of Ohio. Filed June 29, 1927. Serial No. 202,290. 2 Claims. (Cl. 42—58.)



2. In a toy pistol a gate swingable at one side of said pistol, a spring within the pistol having a portion bearing against the gate to hold it in either the open or closed position, said spring having a U-shaped bent end, and ribs on the opposite sides of the pistol between which the said U-shaped end of the spring is held.

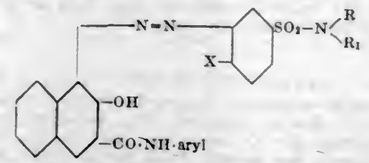
1,678,598. TOOL. EDGAR B. KING, Berenice, Idaho. Filed July 16, 1927. Serial No. 206,254. 5 Claims. (Cl. 1—45.)



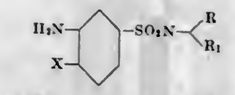
1. A nail driving instrument including a head, which has a nail passage therethrough and a handle which receives nails therein, means urging the nails from the handle into the passage, means for singly delivering nails into the passage, means temporarily holding the nails in the passage, means to engage with the nails for forcing the pointed ends thereof out of the passage, stop means to engage with the head of the nail when moved by the last mentioned means, and a member movable over the head of the nail for contact therewith to prevent the nail from moving up the passage when the instrument is swung in nail driving direction and the nail comes in contact with the work.

1,678,599. AZO-DYESTUFFS FROM 2-3-HYDROXY-NAPHTHOIC ACID ARYLIDES AND PROCESS OF MAKING THE SAME. LEOPOLD LASKA and ARTHUR ZITSCHER, Offenbach-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed May 24, 1926. Serial No. 111,371, and in Germany May 28, 1925. 3 Claims. (Cl. 260—95.)

2. As new products azo dystuffs having most probably the general formula:



wherein R and R_1 represent an alkyl- or an aryl group and X an alkyl- or an alkoxyl group, which dyestuffs are in the dry state reddish to dark colored powders, soluble in concentrated sulfuric acid with from blue to dark violet colors and which by reduction yield an amine of the type:



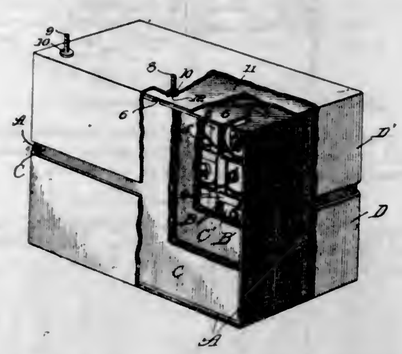
wherein R and R_1 represent an alkyl- or an aryl group and X an alkyl- or an alkoxy group, and a 1-amino-2-hydroxynaphthalene-3-carboxylic acid arylide, and which when produced on vegetable fibers produce reddish shades of an excellent fastness to kier boiling.

1,678,600. TIP FOR HYDROMETER SYRINGES. MELVIN S. LOWER, Barberton, Ohio, assignor to Sun Rubber Company, a Corporation of Ohio. Filed Nov. 8, 1926. Serial No. 147,175. 1 Claim. (Cl. 215—47.)



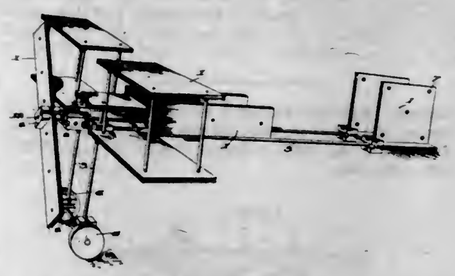
A rubber tip adapted to be attached to the end of a tubular member, comprising an element having at one end a tapered plug to be forced into said member and an enlargement inwardly of said plug to abut against the end of said member when the plug is inserted in the same, and there being between the plug and said enlargement a short section of smaller diameter than the interior of said tube.

1,678,601. DRY BATTERY AND METHOD OF MANUFACTURE. EDWIN E. MEISEKOTHEN, Madison, Wis., assignor to French Battery Company, Madison, Wis., a Corporation of Wisconsin. Filed Jan. 25, 1926. Serial No. 83,578. 10 Claims. (Cl. 136—109.)



1. A dry-battery comprising an inner pasteboard box open at one side, dry-cells assembled therein with their carbon poles presented at the open side, a filler-board within the open side of said box, an outer casing having an open upper end through which the inner assemblage is introduced in such manner that the cells will be disposed horizontally, a closure for the outer container, and terminals projecting laterally from cells in the upper row through perforations with which said closure is provided.

1,678,602. TOY CONSTRUCTION OUTFIT. GUY G. OLDFIELD, Pullman, Wash. Filed Aug. 5, 1925. Serial No. 48,288. 2 Claims. (Cl. 46—35.)

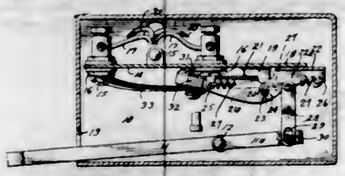


2. In a toy construction outfit, plates made of somewhat resilient material having marginal slots in their edges extending longitudinally thereof for the full length of the plates, forming thereby a channel with compressible or expandible walls adapted to act either as tongues or grooves to like edges on like plates, said plates being provided with transverse openings adapted to receive elongated structural members for said construction outfit.

1,678,603. AUTOMATIC ELECTRIC SWITCH. RALPH PENN, Des Moines, Iowa, assignor to Penn Electric Switch Company, a Copartnership composed of Ralph Penn, Mary S. Penn, Albert Penn, and Blanche G. Penn. Filed Apr. 24, 1925. Serial No. 25,519. 4 Claims. (Cl. 200—67.)

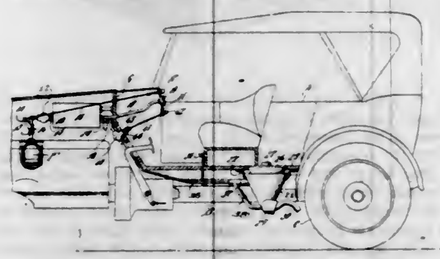
1. In a device of the class described, a support, a bracket mounted thereon having spaced ears formed with opposite inwardly projecting tongues, a pair of channel-shaped members having slots pivotally engaging

the opposite sides of the tongues, a spring connected with said channel-shaped members on opposite sides of the tongues, said tongues being so arranged that the



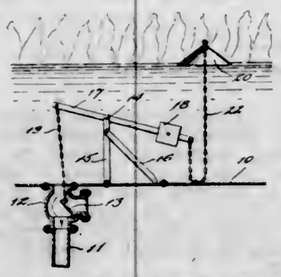
pivot points formed thereby are never simultaneously on dead center with relation to the spring, and means for actuating one of said members on the pivots.

1,678,604. VEHICLE SANDING MECHANISM. ARTHUR W. REED, Boston, Mass. Filed Jan. 6, 1926. Serial No. 79,624. 1 Claim. (Cl. 291—3.)



In a sanding device for a motor vehicle, a storage tank, a check valve connection between a cylinder of the engine of the vehicle and the storage tank, a control valve interposed between the cylinder and the check valve, sand containers having outlets, a connection between the storage tank and the sand containers, a materially controlled valve in said last named connection and means whereby the second and last mentioned valves can be controlled from the instrument board of the vehicle.

1,678,605. SAFETY DEVICE FOR TANKS. HENRY T. SCOTT and LUCIEN EARL RONE, Wichita Falls, Tex. Filed Oct. 31, 1925. Serial No. 66,112. 1 Claim. (Cl. 220—89.)



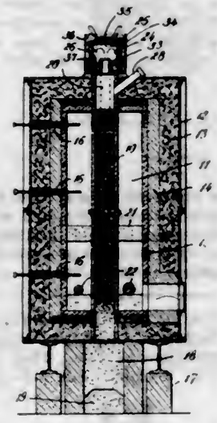
A safety device for tanks comprising a valve body and discharge pipe therefor, a supporting arm and brace bar carried within the bottom of the tank, a lever eccentrically fulcrumed upon the supporting bar and having one end disposed directly above the discharge pipe, a weight carried upon the opposed end of the lever, a flap valve carried within the valve body and having connection with the lever, a fusible element carried within the top of the tank, a conical shaped bell suspended from the fusible element, and a chain establishing connection between the bell and the weighted end of the lever.

1,678,606. ELECTRIC LAMP. GROVER CLEARANCE SINGER, Oakland, Ind. Filed Apr. 1, 1925. Serial No. 19,927. 1 Claim. (Cl. 176—34.)



The combination with an incandescent lamp bulb, of a small deep concave reflector within the bulb, but separate therefrom, the outer wall of the bulb having a coating of silver extending beyond the edge of the inner reflector for cooperating with the inner reflector to reflect the rays of the light from the lamp in the manner of a spot light, whereby the rays of light will illuminate a space of relatively slight area at a considerable distance from the lamp.

1,678,607. METALLURGY OF ZINC. JAMES A. SINOMASTER, Bronxville, N. Y., and FRANK G. BREYER and EARL H. BUNCE, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y., a Corporation of New Jersey. Filed May 5, 1925. Serial No. 28,058. 12 Claims. (Cl. 75—28.)



1. The method of reducing zinciferous materials which comprises confining an agglomerated charge of mixed zinciferous material and carbonaceous reducing agent in an upright retort, and subjecting the agglomerated charge in the retort to a sufficiently high temperature to reduce compounds of zinc and volatilize the resulting metallic zinc.

1,678,608. FOOT-ARCH SUPPORT. HANS SOCHOR, Zurich-Hongg, Switzerland. Filed Jan. 15, 1927, Serial No. 161,370, and in Switzerland Feb. 16, 1926. 2 Claims. (Cl. 36—71.)



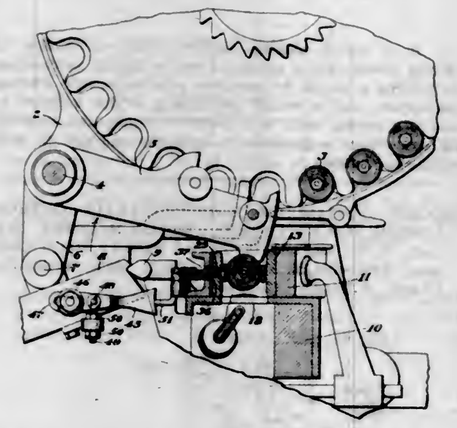
1. A foot arch support comprising a relatively stiff resilient plate, a flexible band having one end attached to said plate at a point substantially midway between the ends of the latter and near one side edge thereof and said plate having an opening near the opposite side to permit the drawing of said band therethrough when said band has been passed around the instep of the wearer and a pad on said plate.

1,678,609. TOOTHPICK. FRITZ SPANIER, Karlsruhe, Germany. Filed Apr. 30, 1926, Serial No. 105,846, and in Germany Oct. 31, 1925. 4 Claims. (Cl. 132—90.)



1. A toothpick comprising a holder consisting of two sections relatively rotatable around a pin connecting said sections, a fine metal blade, having the thickness of a sheet of paper and roughened edges, removably secured to one of said sections, a case having a cross section fitting to that of the two sections of the holder when in register, said case carrying the holder with the blade and forming a handle when using the toothpick.

1,678,610. SHUTTLE-THREAD TENSION FOR REPLENISHING LOOMS. WILLIAM A. TEBO, Anthony, R. I., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Nov. 18, 1927. Serial No. 234,252. 11 Claims. (Cl. 139—256.)

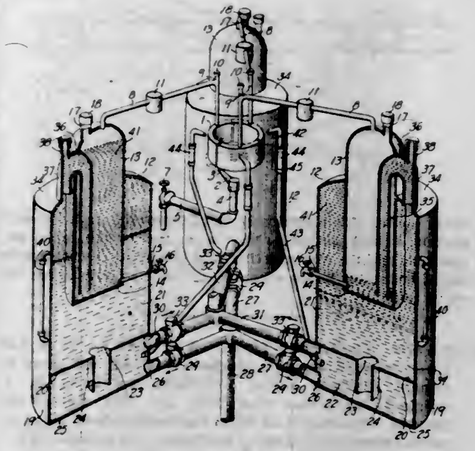


1. An automatically threading loom shuttle having a bobbin chamber, a side delivery eye, and a longitudinally extending thread passage, tensioning members mounted in the thread passage of the shuttle to place tension on the thread as it is drawn between the tensioning member, means normally acting to move the tensioning members relatively in a direction to place tension on the thread, replenishing mechanism, and means actuated by or through the replenishing mechanism to separate the tensioning members and free the thread on replenishment of filling.

1,678,611. PROCESS OF DYEING MIXED TEXTILE GOODS. HERMANN WAGNER, Soden-on-the-Taunus, and HEINZ EICHWEDE and ERICH FISCHER, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 28, 1926, Serial No. 84,501, and in Germany Feb. 7, 1925. 2 Claims. (Cl. 8—5.)

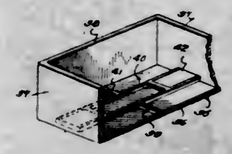
1. Process which comprises dyeing mixed textile goods made of wool and silk fibers with a pyrazolone-azo dyestuff containing at least one carboxylic acid ester group in the dyestuff molecule, said pyrazolone-azo dyestuff containing no free carboxylic acid group linked to the carbon in the 3-position of the pyrazolone ring.

1,678,612. PUMPING DEVICE. THOMAS H. WALKER, Kansas City, Mo., assignor to Earl G. Spangler. Filed Feb. 28, 1927. Serial No. 171,464. 5 Claims. (Cl. 103—255.)



1. In combination with a power generating device comprising a tank, a volatilizable element in said tank, means for releasing said element to exert pressure, and a cylinder for receiving the element, a liquid in said cylinder having no affinity for said gas, a well member adapted to receive water, a tube for conducting said liquid into the upper portion of the well, an outlet for the water impelled by the liquid under pressure of the gas, and means for restoring the liquid to pre-actuated position.

1,678,613. METHOD AND APPARATUS FOR MAKING BUILDING BLOCKS. ALBERT WEISS, Jacksonville, Fla. Filed July 22, 1926. Serial No. 124,233. 2 Claims. (Cl. 25—121.)

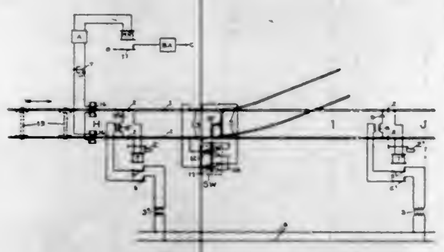


1. The method of forming building blocks which consists in placing a plurality of ribs in the bottom of a mold with blocks approximately equal in depth to the depth of said ribs arranged between portions of certain of the ribs, pouring a colored facing material in the mold to a depth not exceeding the depth of the ribs and blocks, and filling the mold with a body of cementitious material whereby such material will bond with the facing elements.

1,678,614. TRAIN CONTROL. WINTHROP K. HOWE, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Sept. 6, 1924. Serial No. 736,366. 6 Claims. (Cl. 246—63.)

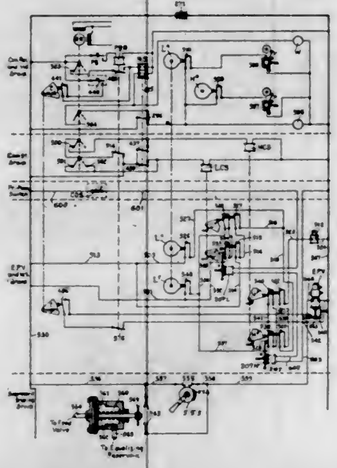
1. A trackway circuit for an automatic train control system comprising a section of track rails containing a

track switch and divided into two portions by insulating joints at said track switch, a source of electrical energy connected across the track rails of one of said portions, a track relay connected across the rails of the other of said portions, and means controlled by the position of said



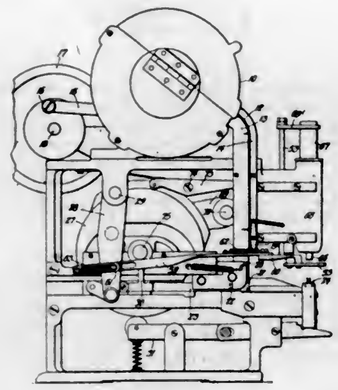
track switch for electrically connecting the rails of said portion having a track relay when the switch is in one position, and for transmitting said electrical energy across said insulating joints when said track switch is in the other position.

1,678,615. TRAIN CONTROL. WINTHROP K. HOWE and CHARLES S. BUSHNELL, Rochester, N. Y., assignors to General Railway Signal Company, Rochester, N. Y. Original application filed July 26, 1923, Serial No. 653,898. Divided and this application filed May 25, 1925. Serial No. 32,865. 25 Claims. (Cl. 246—63.)



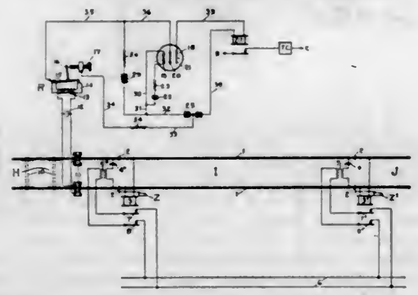
1. Car-carried apparatus for automatic train control systems comprising, a speed responsive device which at all times assumes a condition dependent upon the actual speed of the train, a permissive speed cam adapted to be driven by the wheels of the train for setting up decreasing speed limits in accordance with the progress of the train suitable for passenger train service, a similar permissive speed cam also adapted to be driven by the wheels of the train for setting up decreasing speed limits in accordance with the progress of the train suitable for freight train service, a circuit which if closed prevents the permissive speed cam for freight train service from being effective, manually operable means for closing said circuit, and means for protecting said manually operable means against being operated by unauthorized persons, whereby failure of said circuit creates a condition on the side of safety and sets up speed limits suitable for freight train service.

1,678,616. BUTTON-AFFIXING MACHINE. FRANK F. LANGLEY, Detroit, Mich., assignor to Universal Button Fastening & Button Co., Detroit, Mich., a Corporation of Michigan. Filed Mar. 22, 1922, Serial No. 545,782. Renewed Nov. 16, 1927. 13 Claims. (Cl. 218—6.)



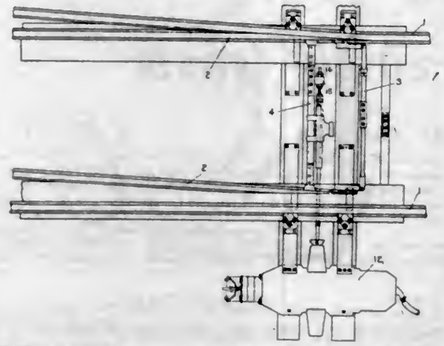
1. In a button affixing machine, the combination of affixing mechanism, a source of button supply, mechanism for placing a button in operative relation to said affixing mechanism, and a rotary positioning device adapted to receive a button from said source of supply and transfer the same into a position in operative relation to said placing mechanism.

1,678,617. CONTINUOUS INDUCTIVE TRAIN-CONTROL SYSTEM FOR RAILROADS. EDWARD H. LOFTIN, New York, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Dec. 5, 1925. Serial No. 73,408. 8 Claims. (Cl. 246—63.)



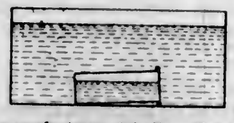
1. In an automatic train control system, a trackway means for carrying an alternating current of a predetermined frequency, a vehicle carried receiving circuit adapted to be excited by the field of said trackway alternating current, a relay in said receiving circuit having two vibratory elements, each of said elements having a mechanical periodicity equal to said predetermined frequency and one of said elements deriving its energy for vibration from the other, and train control means controlled by said vibratory elements.

1,678,618. ADJUSTABLE TRAILING SWITCH CONNECTION FOR RAILROADS. NEIL D. PRESTON, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Jan. 13, 1927. Serial No. 160,905. 10 Claims. (Cl. 246—318.)



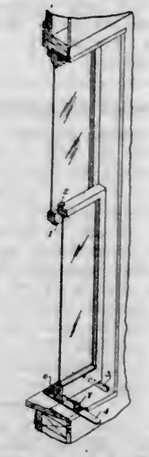
3. In a switch connection, a switch, a switch machine, a detent member operated by the machine, and relatively adjustable notched rods connecting the detent member with the switch.

1,678,619. MANUFACTURE OF INDIGO. CHARLES J. STROSACKER and CHESTER C. KENNEDY, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Feb. 20, 1924. Serial No. 694,118. 5 Claims. (Cl. 260—47.)



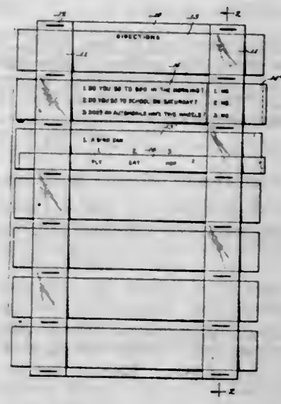
1. In the manufacture of indigo, the steps which consist in subjecting a phenyl compound with an alkali in a container to the heat of a bath of molten material of about the same melting point as the alkali, and finally removing the container from such heated zone and without material access of air submerging it in water.

1,678,620. SASH-MEASURING GAUGE OR THE LIKE. FRANK J. BAKER, Dayton, Ohio. Filed Mar. 23, 1927. Serial No. 177,522. 6 Claims. (Cl. 33—42.)



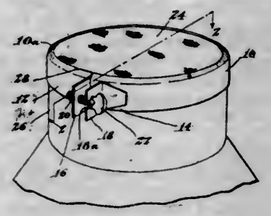
1. A sash measuring gauge for double-hung windows comprising a stop adapted to be applied to one of the sash, means for supporting the lower sash for effecting predetermined vertical spacing between the sash as determined by said stop, a sash marker supported at a height equal to the vertical spacing of the sash and operable over the sill from one side to the other of the window opening for inscribing a mark along the lower edge of the lower sash.

1,678,621. SELF-TEACHING DEVICE. WILLIAM H. HOLMES, Mount Vernon, N. Y. Filed Dec. 31, 1926. Serial No. 158,321. 3 Claims. (Cl. 35—9.)



1. An indicia-bearing member for use in connection with a device of the class described, comprising an accordion folded strip having written indicia displayed on one face and graphic indicia displayed on its other face, the printed and graphic indicia corresponding in the corresponding spaces on opposite sides of the strip.

1,678,622. CLAMPING BAND. JOHN F. HORNE, Portland, Me.; Florence P. Davis, Portland, Me., executrix of said John F. Horne, deceased. Filed May 3, 1926. Serial No. 106,300. 9 Claims. (Cl. 24—256.)



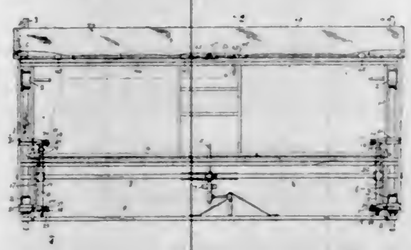
1. A clamping band adapted to fit straining nozzles of different sizes comprising, in combination, a split band formed in a circle with overlapping ends; fastening means for holding said overlapping ends together and capable of adjustment to fit the band to a selected size of nozzle; means on each band end adapted to register with one another for indicating prior to placing the band on the nozzle when the proper adjustment of the fastening means has been effected to fit the band to said selected size of nozzle.

1,678,623. METHOD FOR PREPARING PENTAERYTHRITE. HENRY A. AARONSON, New York, N. Y. Filed Nov. 8, 1923. Serial No. 673,441. 4 Claims. Cl. 260—141.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625, as amended Apr. 30, 1928.)

1. The method of preparing pentaerythrite which includes mixing about 44 grams of acetaldehyde with about 150 grams of formaldehyde, and not to exceed 1.000

grams of water, gradually adding lime while stirring until the temperature of 60° C. has been attained, continuing the gradual addition of lime to maintain such temperature until about 33 grams is added, continuing the stirring for a period of two hours while maintaining a temperature of approximately 60° C. and below 65° C., cooling the mixture, precipitating the lime with sulphuric acid, filtering off the calcium sulphate, removing the remaining lime with oxalic acid, evaporating the remaining solution under vacuum, washing and drying the residue, and then pulverizing the same.

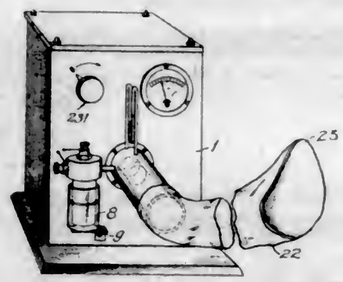
1,678,624. CONCRETE-ROAD MACHINE. EDWARD G. CARR, Milwaukee, Wis., assignor to The Lakewood Engineering Company, Lakewood, Ohio, a Corporation of Ohio. Filed May 9, 1919. Serial No. 295,948. 12 Claims. (Cl. 94—45.)



11. In a device of the class described, a portable frame, and means for propelling the same; and a belt supported at its ends by said frame so as to have engagement with the surface of a piece of plastic cement work over which said frame travels.

1,678,625. APPARATUS FOR THE THERAPEUTIC APPLICATION OF CHLORINE. CHARLES F. WALLACE, Westfield, and JOHN C. BAKER, Nutley, N. J., assignors to Wallace & Tiernan Products, Inc., Belleville, N. J., a Corporation of New Jersey. Filed June 18, 1924. Serial No. 720,730. 4 Claims. (Cl. 128—185.)

1. In an apparatus for the therapeutical application of chlorine, the combination of means for producing a flow of air, a passage for such air having a constriction such as a Venturi throat, means associated therewith for measuring and indicating the rate of flow of the air, a source of chlorine, means for accurately fixing the rate



of flow of the same, means for mixing the chlorine with the air flow and means for conducting the mixture to the point of application.

1,678,626. PROCESS OF REVIVING CATALYSTS. ALPHONS O. JAEGER, Hamburg, N. Y., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Aug. 3, 1925. Serial No. 48,001. 6 Claims. (Cl. 23—238.)

1. A process of regenerating the catalytic activity of deteriorated contact masses which contact masses are not injured by treatment with oxidizing agents, which comprises subjecting the contact masses to treatment with an inorganic peroxide belonging to the group consisting of hydrogen peroxide and ozone.

1,678,627. METHOD OF REGENERATING CATALYSTS. ALPHONS O. JAEGER, Hamburg, N. Y., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Aug. 3, 1925. Serial No. 48,002. 23 Claims. (Cl. 23—238.)

1. A process of regenerating contact masses which comprises treating contact masses, which have become deteriorated by use in the catalytic oxidation of organic compounds, with an acidogen which is volatile below red heat and which does not leave a residue non-volatile upon treatment with oxygen containing gases at elevated temperatures.

Patents Nos. 1,678,628 to 1,679,340.

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Total	1,090		

International Convention—Ratification.

This Office has been notified by the Secretary of State of the receipt of a notice from the Government of the Netherlands that the following countries have ratified the Convention of the Union for the Protection of Industrial Property as revised at The Hague on November 6, 1925: Italy, Germany, Great Britain and North Ireland, Austria, Canada, Spain, and the Netherlands.

THOMAS E. ROBERTSON,
Commissioner of Patents.

Adjudicated Patents.

(C. C. A. Ind.) Herschel patent, No. 1,545,829, for revoluble mounting of wheel on stationary axle, *Held* invalid. *R. Herschel Mfg. Co.* v. *Great States Corporation*, 26 F. (2d) 362.

(C. C. A. N. Y.) Hofmann and Gottlob patent, No. 1,149,580, for vulcanizing process, claims 1 and 4 *Held* invalid, because specifications are insufficient and claims are too broad. *Grasselli Chemical Co.* v. *National Aniline & Chemical Co.*, 26 F. (2d) 305.

(C. C. A. N. Y.) Gibbs patent, No. 1,333,017, for animal trap, claim 10 *Held* valid and infringed. *Gibbs* v. *Triumph Trap Co.*, 26 F. (2d) 312.

(C. C. A. N. Y.) Gibbs patent, No. 1,458,286, for animal trap having simultaneous locking of jaws, claim 4 *Held* valid and infringed. *Id.*

(C. C. A. Minn.) Klima design patent, No. 50,624, for barn ventilator, *Held* invalid. *King Ventilating Co.* v. *St. James Ventilating Co.*, 26 F. (2d) 357.

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,600,556, W. H. Matthews, Straightforward trunking system, decided June 20, 1928, claim 5.

Pat. 1,613,631, G. Weiss, Actuating mechanism for molding machinery, decided July 12, 1928, claims 1 and 7.

Pat. 1,637,283, K. Schmidt, decided June 9, 1928, claims 1 and 2.

Changes in Classification.

Order No. 3,056, July 12, 1928, directs:

In *class 206, Special Receptacles and Packages* (Division 40), establish the following subclasses and definitions. the patents contained in subclass 41.5 having been taken from class 131, Tobacco, subclass 59, Tobacco-users' appliances, and those contained in subclass 41.6 having been taken from class 131, Tobacco, subclass 30, Moistening:

Receptacles
Pocket and personal use
Cigars and tobacco
41.5. With cutter.
41.6. With humidor.

41.5. RECEPTACLES, POCKET AND PERSONAL USE, CIGARS AND TOBACCO, WITH CUTTER. Patents coming under subclass 41 and having therewith cutting devices. They are generally for cutting plug tobacco.

Note.—See this class, subclasses 35 and 41.

Note.—See Class 131, TOBACCO, subclass 59, Tobacco-users' appliances.

41.6. RECEPTACLES, POCKET AND PERSONAL USE, CIGARS AND TOBACCO, WITH HUMIDOR. Receptacles coming under the definition of subclass 41 which have as part thereof a humidor.

In *class 206, Special Receptacles and Packages* (Division 40), establish the following subclass and definition, the patents contained in this subclass having been taken for the most part from various subclasses in class 206, and from class 131, Tobacco, subclass 51, Cigar supports and stands; class 220, Metallic Receptacles, subclasses 18, Wall or ground supported, and 63, Linings; and class 224, Package and Article Carriers, subclasses 29, Vehicle, and 30, Vehicle, Bicycle:

[illegible] Receptacles
19.5 Vehicle attached.

19.5 RECEPTACLES, VEHICLE ATTACHED. Includes special receptacles for holding matches, cigarettes, cigars, toilet appliances, etc., with means to attach them to vehicle parts, as the instrument board or steering column of an automobile.

Note.—See this class, subclass 30.

Note.—See class 224, PACKAGE AND ARTICLE CARRIERS, subclass 29, Vehicle, and the subclasses indented thereunder.

Note.—See class 312, SUPPORTS, CABINET STRUCTURES, subclass 112, Wall or window mounted type, and the subclass indented thereunder.

Condition of Applications Under Examination at Close of Business July 20, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 109,174; Trade-Mark Division, 1,889. Oldest new case, Sept. 22, 1927; oldest amended, Oct. 3, 1927. The dates given are 1927 except where † indicates 1928.)

Room No.	Divisions, Examiners, and Subjects of Inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders	Nov. 18	Dec. 23	1,522
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving, Presses; Tobacco	Dec. 30	Dec. 30	1,602
331	3. LINDSEY, A., Electric Heating; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Nov. 15	Dec. 15	2,067
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus and Implements, and Pushing and Pulling.	Oct. 1	Oct. 6	2,354
108*	5. MACNAB, J. F., Harvesters; Jewelry; Music; Acoustics; Sound Recording; Knotters	Oct. 10	Nov. 1	1,631
318	6. LEWERS, A. M., Chemistry; Chemistry—Carbon Compounds	Nov. 14	Dec. 3	2,836
106	7. JARBOE, C. G., Amusement and Exercising Devices; Toys; Optics; Photography	Oct. 27	Nov. 1	2,528
133	8. HENRY, C. C., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Supports, Racks; Supports, Cabinet Structures.	Nov. 14	Nov. 14	2,508
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	†Feb. 17	†Feb. 15	1,574
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Nov. 10	Nov. 25	1,884
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather Manufactures; Nailing and Stapling; Whip Apparatus; Cutting and Punching Sheets and Bars.	†Jan. 3	†Jan. 4	1,580
380	12. PIERCE, P. P., Machine Elements	Sept. 22	Oct. 28	2,136
154*	13. CLIFT, J. W., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling, Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Dec. 5	Dec. 7	1,871
102*	14. BRUMBAUGH, N. J., Compound Tools; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Oct. 20	Oct. 22	1,748
329	15. REDROW, W. L., Glass; Plastic Block and Earthenware Apparatus, Plastics	Nov. 25	Dec. 14	2,331
242*	16. SPENCER, C. J., Batteries; Resistances and Rheostats; Telegraphy; Telephony	†Jan. 18	†Jan. 5	1,464
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Nov. 30	Dec. 3	1,388
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Dec. 2	Dec. 12	1,583
246	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Dec. 8	Dec. 7	1,816
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	†Feb. 9	†Feb. 9	1,501
212	21. THURBER, W. L., Winding and Reeling; Textiles; Cloth Finishing	Sept. 29	Dec. 6	1,563
244*	22. COLWELL, J. H., Aeronautics; Amusement Devices, Games; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Oct. 24	Nov. 29	2,014
217	23. GROESBECK, W. D., Coin Handling; Recorders, Registers; Horology; Time-Controlling Mechanism.	Oct. 6	Oct. 4	1,550
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Oct. 5	Oct. 7	1,578
314	25. LIGHTFOOT, J. H., Agitating; Bleaching and Dyeing; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Mills; Sugar and Starch; Threshing; Vegetable and Meat Cutters and Comminutors.	Nov. 10	Nov. 25	2,615
228*	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Oct. 31	Oct. 31	1,338
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	†Jan. 6	Dec. 24	1,366
225	28. BENSON, A. R., Internal-Combustion Engines	Oct. 31	Oct. 31	2,075
160*	29. MORRIS, B. N., Abrading; Button Making; Coopering, Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Nov. 2	Nov. 4	737
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Typewriting Machines; Thermostats and Humidostats.	Nov. 5	†Jan. 9	1,462
312	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue.	Dec. 2	Dec. 1	2,927
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Nov. 2	Nov. 1	2,277
152	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	†Feb. 9	†Feb. 4	2,180
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Oct. 1	Oct. 3	1,528
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	†Jan. 24	†Feb. 6	1,619
105	36. MORTON, O. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	†Jan. 13	†Jan. 7	1,895
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Oct. 28	Dec. 21	2,131
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	†Jan. 3	†Jan. 2	1,894
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Sept. 22	Oct. 19	1,755
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Package and Article Carriers; Receptacles	Oct. 10	Dec. 5	2,862
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles: Resilient Tires and Wheels; Wheel Substitutes	†Feb. 2	†Feb. 2	1,186
223*	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling	Nov. 17	Nov. 21	2,033
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members; Railway Draft Appliances.	Dec. 10	†Jan. 14	2,300
253	44. SHAFFER, C. H., Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Refrigeration.	Oct. 20	Nov. 4	2,171
376	45. GILES, A. H., Pulleys and Shafting; Lubrication; Machine Elements; Bearings and Guides	†Jan. 6	†Jan. 6	1,658
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Oct. 8	Oct. 17	1,864
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Motors; Spring Devices.	Nov. 1	Nov. 1	2,802
213*	48. ROEPKE, O. B., Electricity, General Applications	Dec. 8	Dec. 8	1,492
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Ventilation; Velocipedes; Driers; Liquid Separation or Purification.	Nov. 10	†Jan. 3	1,625
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Dec. 7	Dec. 15	2,498
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Nov. 18	Nov. 25	2,271
144	52. MORGAN, E. T., Supports; Chucks; Fire Escapes; Ladders; Scaffolds; Railway Mail Delivery; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Dec. 16	Dec. 17	2,330
143*	53. PECK, M. K., Hooks; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Nov. 17	Nov. 12	1,789
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Nov. 18	Nov. 18	2,365
102	55. RICHARD, V. L., Bread, Pastry, and Confection Making; Cutlery	Nov. 3	Nov. 5	957
	Designs	†May 23	†June 6	851
309	56. PORTER, F. J. (Acting), Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation.	Oct. 8	Oct. 11	2,538
----	57. ----	Oct. 3	Nov. 1	1,154
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND, Trade-Marks	†June 20	†July 10	1,793
	Labels and Prints	†July 9	†July 12	96

*Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

DOWNS *v.* ANDREWS.

No. 1,996. Decided March 5, 1928.

1. INTERFERENCE—PRIORITY—CONCEPTION.

"Conception is an act of the mind and it has no value as evidence until its existence has been manifested and proved by exterior acts or declarations."

2. SAME—SAME—SAME—PROOF OF.

"The conception of an idea is a mental function and its existence may be proved by deeds as well as by words."

3. SAME—SAME—WORK OF ANOTHER.

Where the evidence established that a sketch of a converter embodying the invention in issue was made by one R. without the knowledge of the appellee, *Held* not to justify the conclusion that R. either invented or procured the invention from someone else other than the appellee, where appellee had testified that he disclosed the invention to R.

4. SAME—SAME—REDUCTION TO PRACTICE.

Where it appears that a converter embodying the invention was built and tested, but subsequently dismantled, *Held* that such dismantling does not establish that the operation of the converter was a mere abandoned experiment, since it affirmatively appeared that the converter was dismantled for the purpose of inspection and not because it was a failure.

5. SAME—SAME—SAME.

While reduction to practice requires that the efficacy and utility of the invention be demonstrated by tests, it is not necessary that the practical embodiment be mechanically perfect. If the operative means accomplished the desired end, reduction to practice is established, though it appears on inspection that elements of the device should have been made stronger or given a better shape, arrangement, or adjustment.

Mr. W. B. Morton, Mr. M. W. Sage, Mr. E. H. Merchant, and *Mr. G. J. Hesselman* for Downs.

Mr. B. G. Foster for Andrews.

APPEAL from the Commissioner of Patents. Affirmed.

Before MARTIN, Chief Justice, VAN ORSDEL, Justice, and SMITH, Judge U. S. Court of Customs Appeals.

SMITH, *J.:*

This is an appeal from a decision of the Commissioner of Patents awarding in an interference proceeding priority of invention to the junior party, Chester E. Andrews, thereby affirming the decision of the Examiners in Chief, affirming the decision of the Examiner of Interferences.

The subject matter of the interference is defined in four counts which are as follows:

1. A catalytic body comprising a base of aluminum and a metal oxide catalyst on said aluminum and in direct contact therewith.

2. In a converter the combination with a catalyst, comprising vanadium oxide, of a support or carrier for the same comprising aluminum and having the vanadium oxide in direct contact therewith.

3. A catalytic body comprising a base of aluminum and vanadium oxide on said aluminum and in direct contact therewith.

4. A catalytic body comprising a base of aluminum and an oxide of a metal of the fifth or sixth groups of the periodic system on said aluminum and in direct contact therewith.

It seems to be conceded by the parties that the production of certain chemical compounds from hydrocarbons requires that the hydrocarbon used shall be partially, not completely, oxidized in order to secure the chemical action desired. Even if there be partial oxidation of the hydrocarbon and even if all the chemical elements necessary to constitute the particular compound be present, their chemical combination into the compound cannot be effectuated without the aid of a catalyst. Just what a catalyst does and how it acts nobody seems to know. All that appears to be known is that there are chemical combinations which cannot be accomplished without a catalyst and that the catalyst itself suffers no permanent chemical change. Apparently a catalyst bridges the abyss between the chemical elements and permits them to get together. So far as chemical change is concerned nothing happens without it and nothing happens to it. By partial oxidation and the use of a catalyzer, maleic acid may be produced from benzene, anthraquinone from anthracene and phthalic acid from naphthalene. The catalyst used for the production of phthalic acid from partially-oxidized naphthalene in the vapor state is vanadium oxide. Vanadium oxide is a powder and to be effectively used must be supported or carried by a good conductor of heat having mechanical strength, durability, and a melting point not lower than that of the catalyst. Before the discovery that aluminum had special qualities which peculiarly fitted it for use as a catalyst carrier, various substances such as pumice, glass, asbestos, sand, glass wool, kieselguhr, coke, nickel, iron, cobalt and some of the heavier metals were used as catalyst carriers. Some of those carriers were poor conductors of heat, some of them interfered with the chemical reaction contemplated, and all of them were more or less unsatisfactory inasmuch as they detrimentally affected the production of the chemical compounds desired. The fact that the catalyst carriers known to the art were not all that could be wished for was a challenge to the inventive faculties of Downs and Andrews and both of them undertook the task of finding a *carrier* which would save the catalyzer from deterioration and give to it longer efficiency. In considering the claims of both men it should not be forgotten that the objective sought by both was not the production of new chemical compounds or of a new catalyst to induce chemical reaction but the development of a support or carrier which would hold the catalyst and prolong its active life.

It appears from Down's preliminary statement that about the 28th of July, 1918, he conceived and disclosed the idea that aluminum possessed the properties which would successfully meet the requirements of a catalyst carrier. However, as Downs filed his application for a patent on November 13, 1919, that date must be regarded as his date of conception and reduction to practice in the absence of evidence establishing an earlier date.

Andrews filed his application for a patent on October 22, 1920, subsequent to the filing by Downs.

Andrews was, therefore, the junior party and upon him was imposed the burden of proving his priority of invention.

Andrews's case.

Andrews in his own behalf testified that early in November, 1918, he conceived as a catalytic body the combination of the metal aluminum with vanadium oxide in contact therewith and in that month explained and disclosed his invention to J. M. Selden, sr., J. E. Randall and others; that he first experimented with his invention in January, 1919, and that the first written description of his invention was made on January 27, 1919, by K. B. John in John's notebook; that John was employed by the Walker Chemical Company of Pittsburgh but in making the experiment described in said notebook was working under the witness's direction; that in July, 1919, a sketch was made by J. E. Randall of a converter of which metallic aluminum as a carrier of vanadium oxide formed a part; that on August 24, 1919, the converter so sketched was constructed and put into operation; that the witness did not know how Mr. Randall came to make the sketch but that he had discussed with Mr. Randall the utilizing of vanadium oxide as a catalyst on aluminum as a carrier; that after this sketch was made, it was determined to install the construction indicated thereby in one of the converters of the plant; that requisitions for the installation were made out before the end of July, 1919, and one of the converter units was made ready to receive the installation; that the converter equipped with aluminum and vanadium oxide thereon was a full-size plant converter for commercial purposes and that it was used continuously between August 23, 1919, and October 31, 1919, for the vapor phase oxidation of naphthalene and the production of phthalic anhydride; that the phthalic acid produced by the converter became a part of the plant production and was purified and sold; that the operation of the first converter installed and provided with the aluminum carrier for vanadium oxide compared favorably with the ordinary run of converters not equipped with the aluminum carriers; that the converter, as appears from the witness's notebook was dismantled on October 31, 1919, not because it would not successfully produce phthalic anhydride but for the purpose of inspecting the internal construction; that as the result of such inspection it was found that to a slight extent melting had occurred in unit No. 3; that because of the melting it was decided to build another converter using thicker metallic aluminum as a carrier for the vanadium oxide catalyst and thereby avoid trouble from melting; that it was decided to completely line this converter with sheet aluminum, make it gas tight, and use trays and spreading strips of a much thicker cast of aluminum; that the witness made a complete drawing of this aluminum lining on January 27, 1920; (the drawing produced by the witness was introduced in evidence); that the new converter unit was made ready and provided with a thicker aluminum lining and thicker aluminum trays supported by pieces of inch and a quarter aluminum pipe; that the new converter was operated from February 25, 1920, to September 12, 1920, with the exception of the period from May 3 to June 15, during which the production of phthalic anhydride ceased because of the difficulty in obtaining a sufficient quantity of naphthalene; that during that time (that is, February 25 to September 12) the converter produced phthalic anhydride which was purified and sold; that the converter was shut down from September 12 to September 15 in order that its condition might be inspected; that the inspection disclosed that some of the aluminum trays were slightly warped but that the whole structure was intact and in position. In corroboration of this witness's testimony as to the installation of the converter, the date on which it commenced operations and the production in pounds of phthalic acid of each of the converter units, Andrews produced written notes made by him.

Kenneth B. John testified on behalf of Andrews that he was an engineer and that he was employed by the Walker Chemical Company at Pittsburgh on the 23rd of December, 1918; that Andrews in January, 1919, was engaged in trying to make a catalyst that would be self-supporting by causing it to adhere to various metals; that in that month the witness, *under the direction of Andrews*, tried to coat aluminum wire with molten vanadium oxide and kept notes of a specific experiment made by him on the 27th of January, 1919; that according to the notes made by the witness:

A few experiments were run by heating the catalyst and dipping aluminum into it. The rod used was about No. 3 aluminum wire. The catalyst seemed to stick to this very well, but great care had to be exercised in the dipping due to the fact that aluminum melts at practically the same temperature as the catalyst. One at 657, the other at 658. In one case aluminum melted into the molten catalyst. The mixture was poured into a mold before the aluminum had time to become entirely molten. In this the aluminum and catalyst seemed to stay together very well without cracking or breaking.

John also testified that the catalyst used was vanadium pentoxide and that the experiment referred to in his notes was made under the direction of Andrews; that two units were erected by the Walker Chemical Company, both of which units used the catalyst in direct contact with the aluminum; that the first unit was built in August, 1919, and was operated for about two months and produced phthalic anhydride; that after two months of operation the unit was opened up and examined; that on such examination it was found that in places the aluminum spreaders and trays had sagged slightly because of the heat and in some places the aluminum had melted but that notwithstanding the sagging and the melting disclosed by the inspection, the converter was capable of producing phthalic anhydride; that the second unit was built in the latter part of February or in March, 1920, and was lined with aluminum plates, welded together; that the catalyst carriers were made of square plates of cast aluminum and were separated by rectangular aluminum castings placed in a crisscross manner; that all of the aluminum surfaces were coated with a catalyst; that the tube through which the pyrometers and air were introduced were also of aluminum; that the second unit was operated for some time and produced phthalic anhydride and was then opened up and examined to determine its contents; that its condition was quite good although some of the plates were warped.

Carl E. Ruth, a chemist, testified on behalf of Andrews, that he was employed by the Selden Company on January 28, 1919; that a few days after his employment he saw Andrews and John experimenting at the plant with different catalyst carriers; that one of the carriers used was aluminum and the catalyst was vanadium pentoxide; that two units using aluminum as a carrier for vanadium pentoxide were put in operation and produced phthalic anhydride; that the first unit was built in the fall of 1919 and the second in the spring of 1920; that both units were built primarily under Mr. Andrews's instruction but that it was left to the witness to carry out the actual work; that the unit constructed in the fall of 1919 was operated for about *six or eight weeks* and successfully produced phthalic anhydride; that operation of the unit constructed in the fall of 1919 was suspended in order that it *might be opened up and inspected;* that on such inspection the witness noted that a small quantity of the catalyst had disappeared but that the condition of the unit at that time did not materially differ from its condition at the time it was put in operation; that the second unit was continued in operation until the late fall of 1920 when its further operation was suspended for the purpose of inspecting it; that the inspection of the second unit disclosed that it was in good shape although some of the plates had become slightly warped.

Harry Pafford testified for Andrews that on November 27, 1919, he was employed by the Walker Chemical Company as an operator of converters for the production of phthalic anhydride acid; that in March, 1920, there was in building "E" of the Company's plant a converter lined with aluminum and equipped with aluminum plates covered with a catalyst; that he operated the converter so equipped the same as other units of the plant; that that converter was operated as well as he could remember for *about six months* and that it was torn down and the trays removed in September or October, 1920; that he found some of the trays slightly warped but otherwise in good condition; that said aluminum-equipped unit operated successfully and produced phthalic anhydride for a period of six months; that the phthalic anhydride so produced was stored with phthalic anhydride produced by other units and purified for sale.

Clifford Hutchins testified for Andrews that he was employed by the Walker Chemical Company on the 13th of October, 1919; that after the first two weeks of his employment he was an operator of units for the production of phthalic anhydride; that No. 5 unit was built with aluminum trays with catalyst sprinkled on them; that No. 5 unit was operated for a period of *six months;* that it developed no trouble and operated as well as could be expected.

Edward C. Orth testified on behalf of Andrews that he was employed by the Walker Chemical Company from September 17, 1919, until about June, 1920; that he was an operator of units for the production of phthalic anhydride; that unit No. 5 was equipped with aluminum slabs which were put in place in his presence.

John J. Scanlon testified for Andrews that he was employed by the Walker Chemical Company from 1918 until 1920 as shift foreman in charge of men operating the units for making phthalic acid; that unit No. 3 was equipped in August, 1919, with aluminum trays; that it was his duty to pay especial attention to this particular unit, inasmuch as aluminum trays were used for the first time in that unit; that unit No. 3, containing thin aluminum trays, operated successfully for about two and one-half months; that unit No. 5 was, he thought, equipped with thick aluminum trays about the last part of November.

Downs's case.

Robert R. Sawhill testified for Downs that he was employed by the Walker Chemical Company from the first part of the year 1919 until the latter part of September, 1919; that aluminum plates carrying vanadium oxide were installed in converter 3 in the latter part of August, 1919, and that those plates were, *to the best of his knowledge,* in use for approximately *two weeks;* that he saw some of the plates before leaving the service of the Walker Chemical Company and that they were warped and partially melted.

Harry G. Baer testified for Downs that he was employed by the Walker Chemical Company from January 17, 1918, until June 30, 1919; that he did not know of any aluminum trays being installed in any of the converters of the Walker Chemical Company.

Malcolm K. Spieth testified for Downs that he was employed by the Walker Chemical Company from June, 1918, to August, 1919; that he knew Kenneth B. John and was employed in the same room with him; that he never saw John experimenting with aluminum rods; *that he never heard of any converter used by the Walker Chemical Company that had aluminum plates or trays in them and that the only converters of which he was aware had tile trays;* that he might have been absent from his employment on January 27, 1919, because of a cold.

Frank A. Reese testified that he was employed by the Walker Chemical Company from September, 1918, to December, 1920; that he knew Kenneth B.

John and that the witness never saw John working with aluminum rods; *that one of the converters operated by the witness was equipped with aluminum trays which were put in about August, 1919;* that *to the best of his knowledge* the trays were removed *early in September, about two weeks after they were put in;* that *he believed* that the trays were discarded; that it *seemed possible* to him that the plates were removed because of being unsuccessful; that after the removal of the aluminum trays fire-clay trays were put in; that he did not know of any other converter which was operated with aluminum trays but that it *was possible* that some other converter was so equipped; that he was out of the service of the Walker Chemical Company for a short time but did not remember how long; that to the best of his knowledge the converter equipped with aluminum trays produced phthalic anhydride, and that that product was placed in barrels which were taken to the stock room.

Leslie J. Wolfe testified for Downs that he was employed by the Walker Chemical Company from the latter part of October, 1917, until December 31, 1920; that he was doing mechanical work in the building of converters and helped to operate them at intervals; that the converters were used for the conversion of naphthalene into phthalic acid; that in August, 1919, a converter was, for the first time, equipped with aluminum trays; that that converter was known as No. 3 and that it was operated for a short time, approximately 10 days; that the aluminum trays were then taken out and replaced by a tile tray; that thereafter converter No. 3 continued to operate with tile trays; that the aluminum trays taken out of No. 3 were left lying on the floor of the plant and that some of them were badly warped; that the corner of one of the trays was fused off; that none of the trays taken out of No. 3 were ever used again; that early in the year 1920 converter No. 5 was equipped with aluminum lining and aluminum trays; that No. 5 was operated to produce phthalic acid and continued in operation for a period of not over two weeks; that the trays were then removed and were found badly warped and several of them fused and melted; that after the aluminum trays were removed from converter No. 5, tile trays were substituted therefor; that No. 5 with the tile trays resumed the production of phthalic acid; that Mr. Habeshian placed the aluminum trays in converter No. 3 and that Mr. Andrews was present when that installation was made. On cross-examination Wolfe stated that he took care of the furnaces, motors, blowers, converters and the equipment necessary for the operation of the plant and did the actual work thereon; that No. 3 was operated for the first time with aluminum trays in the presence of Mr. Andrews and Mr. Ruth; that No. 3 produced phthalic acid but that the production was lower than that of other units. At this point, under instruction of counsel, the witness refused to say whether or not the production records submitted in evidence by Andrews were the records with which the witness was acquainted. Wolfe also testified on cross-examination that Andrews operated converter No. 5 on several occasions; that the witness looked into the condenser of converter No. 5 and found that its production was somewhat smaller by comparison with that of other converters; that he based his statement that unit No. 5 was operated for two weeks on his recollection.

This review of the evidence is made because of the conclusions of fact and of law earnestly argued by counsel for the appellant and for a proper understanding of the reasons which induced the court to reach its final conclusion.

The opinion.

On the evidence hereinbefore recited, the appellant contends first, that the testimony of Andrews that he conceived his invention and disclosed it to Randall and Selden and others in November, 1918, is wholly uncorroborated and is, therefore, worthless to establish Andrews's priority of invention; second, that the record and notes made by Kenneth John on the 27th of January, 1919, of the specific experiment with aluminum wire and vanadium oxide cannot be regarded as proving that Andrews on that date had conceived of the use of aluminum wire as a catalyst carrier; third, that the experiment conducted by John with aluminum wire and vanadium oxide was John's work and not Andrews's work and that even if it could be accepted as Andrews's work the experiment was obviously a failure inasmuch as nothing was done with the rods and that Andrews's conception was, therefore, not fully and completely disclosed as a tangible working thing; fourth, that converter No. 3 was designed by Randall and built by the Walker Chemical Company and there was, consequently, no evidence of Andrews's conception of the invention or of its reduction to practice.

The testimony of Andrews that he conceived, in November, 1918, the combination by contact of aluminum and vanadium oxide into a catalytic body and on that day explained and disclosed his conception to Selden and Randall stands wholly uncorroborated. From that it follows that November, 1918, can not be accorded to Andrews as the date on which he conceived and disclosed his invention. That Andrews, however, did have in mind in January, 1919, the coating of aluminum with vanadium oxide and the use of aluminum so coated as a catalytic body finds corroboration in the things done and the notes made by John under Andrews's direction and seems to be fairly established. True enough, John and not Andrews coated aluminum wire with the catalyst vanadium oxide by dipping the wire into the molten catalyst and made a record of what was done. Nevertheless, John and Andrews both testified positively that the experiment and the record thereof was made under the direction of Andrews. There is no claim by John and no pretense on his part that he did the things recorded on his own initiative or that the experiment was his experiment and not one directed by Andrews. From the fact that John did what he did under the direction of Andrews, it must be concluded that Andrews told John what to do and that Andrews had a conception of what was to be done. Of course the coating of aluminum rods with vanadium oxide was not a reduction to practice of the catalyst carrier which Andrews conceived and disclosed to John but it was a conception and disclosure that the metal aluminum could be utilized as a carrier for vanadium oxide.

[1] The testimony of John and the notes made by him are corroborative of the claim of Andrews that he had as early as January, 1919, conceived the use of aluminum as a catalyst carrier and disclosed his conception to John. John's sworn statement that under the direction of Andrews he coated aluminum wire with vanadium oxide and his written record of what he did must be weighed and their value determined by the ordinary rules applicable to such evidence and not by the rule which precludes the acceptance of a claimant's uncorroborated statements that at a certain time he conceived an invention. Conception is an act of the mind and it has no value as evidence until its existence has been manifested and proved by exterior acts or declarations. As was well said by the Examiners in Chief, the law required corroboration of Andrews, not John.

[2] But whether January, 1919, be accepted or rejected as the date of Andrews's conception and disclosure the evidence in the case establishes beyond a reasonable doubt that his mental conception of the invention was made manifest and disclosed by investing it with a material and visible form not later than August 24, 1919. The conception of an idea is a mental function and its existence may be proved by deeds as well as by words. On the last-named date a converter for the production of phthalic anhydride was installed under the instructions of Andrews and equipped with aluminum trays which were coated with vanadium oxide. As appears from the testimony of practically all of the witnesses in the case, that converter actually produced phthalic anhydride and the preponderance of evidence establishes that from the date of the installation of the converter until October 31, 1919, it produced phthalic anhydride which was purified and prepared for sale as was the phthalic anhydride produced by other converters not equipped with the aluminum catalyst carrier.

[3] It is argued by counsel for the appellant that the sketch for this converter was made by Randall and without the knowledge of Andrews. That is true but that hardly justifies the conclusion that Randall was either the inventor or that he procured the invention from some one other than Andrews. Especially is the conclusion unwarranted in view of the fact that Andrews testified that he disclosed his invention to Randall and Selden. That testimony was not corroborated and avails Andrews nothing so far as conception and disclosure are concerned but it does show that the conclusion drawn by counsel for the appellant from Randall's making of the sketch was not warranted inasmuch as the idea embodied in the sketch *might* have been procured from Andrews and that the "some one else" *might* well have been Andrews.

It is contended by the appellant that the operation of converter No. 3 was an abandoned experiment and not a reduction to practice for the reason that it was dismantled on October 31, 1919, and ceased to function as a producer of phthalic anhydride. We cannot sustain that contention because it affirmatively appears from the evidence that the converter was dismantled for the purpose of inspection and not because it was a failure. That inspection did disclose that the converter might be improved by substituting thicker aluminum in order that the slight melting of the aluminum which the inspection developed might be avoided. That converter 3 was not an abandoned experiment is further proven by the fact that converter No. 5 was constructed in March, 1920, and equipped with thicker cast aluminum plates to remedy the mechanical defects developed by the commercial use of converter No. 3. Converter No. 5 operated from March, 1920, until September, 1920, when its operation was suspended for the purpose of inspecting it. The inspection disclosed that the converter was in good shape although some of the plates had become slightly warped.

[4] While reduction to practice requires that the invention be so tested that its efficacy and utility are demonstrated, it is not necessary that the practical embodiment of the idea of the invention should be mechanically perfect. If the operative means accomplishes the desired end, reduction to practice is established although it appears on inspection that the elements of the device should have been made stronger or given a better shape, arrangment or adjustment. *Gallagher* v. *Hien*, 25 App. D. C. 77, 82; 115 O. G. 1330. The fact that improvements, obvious to those skilled in the art, may be made to perfect the operation of the means or to increase its practical efficiency does not justify the conclusion that the invention was without practical utility or that its reduction to practice was a failure. *American Hide & Leather Splitting & Dressing Mach. Co.* v. *American Tool & Mach. Co.*, 1 Fed. Cas. 647, 652; *Funk* v. *Whitely*, 117 O. G. 280, 25 App. D. C. 313, 315; *Lowrie* v. *Taylor*, 123 O. G. 1901, 27 App. D. C. 522, 526; *Burson* v. *Vogel*, 131 O. G. 942, 29 App. D. C. 388, 394. Converter No. 3 contained all the essential elements of a practical operative aluminum catalyst carrier and the commercial use of the converter for the production of phthalic anhydride was a reduction to practice of Andrews's conception. *Coffee* v. *Guerrant*, 68 O. G. 279, 3 App. D. C. 497, 499, 500.

The decision of the Commissioner of Patents awarding priority of invention to Andrews is affirmed.

Affirmed.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

989,939, W. E. Allington, Dust collector, filed Apr. 7, 1928, D. C. N. J., Doc. E 3181, *W. E. Allington et al. v. Skinner Bros. Mfg. Co., Inc.*

1,007,647, C. R. Darnall, Process of purifying water and sewage filed May 18, 1928, D. C. N. J. (Trenton), Doc. E 3307, *Wallace & Tiernan Co., Inc., v. City of Garfield, N. J.*

1,016,928, H. B. Bishop, Cleansing fabric, D. C., S. D. N. Y., Doc. E 44/341, *H. B. Bishop et al. v. H. Sundheimer, Inc.* Consent order of discontinuance June 8, 1928.

1,046,736, B. A. Clayton, Operating table or chair, filed May 18, 1928, D. C., S. D. Iowa (Davenport), Doc. E 4100, *B. J. Palmer v. Champion Table Co. et al.*

1,088,476, W. E. Stiles, Operating table, filed May 17, 1928, D. C., S. D. Iowa (Davenport), Doc. E 4099, *M. H. Palmer v. Champion Table Co. et al.*

1,092,078, M. C. Overman, Vehicle tire, filed June 12, 1928, D. C., S. D. N. Y., Doc. E 45/290, *Overman Cushion Tire Co., Inc., v. The B. F. Goodrich Co.*

1,103,567, E. P. Cowles, Motor vehicle, filed June 7, 1928, D. C., E. D. Wis. (Milwaukee), Doc. 2321, *Wire Wheel Corp. of America et al. v. Ford Motor Co.*

1,142,361, G. Arnstein, Process of antisepticizing water, filed May 9, 1928, D. C. N. J., Doc. E 3275, *Electro Bleaching Gas Co. et al. v. County of Union, N. J.*

1,183,694, B. Sutter, Fireproof insulating building material and process of making, filed May 10, 1928, D. C. N. J. (Trenton), Doc. E. 3276, *Zentitherm Co., Inc., v. Craft Stone Products Co., Inc., et al.*

1,199,124, W. O. Snelling, Food product, filed June 15, 1928, D. C., W. D. N. Y., Doc. 1359–G, *W. O. Snelling v. Dernell Potato Products Co.*

1,342,417, Boulton & Gorsuch, Seam-ironing machine, D. C., S. D. N. Y., Doc. E 39/160, *United Shoe Machinery Corp. v. American Cap Fronts Mfg. Co. et al.* Patent held valid and infringed June 14, 1928.

1,410,668, G. E. Fox, Desk accessory, C. C. A., 7th Cir., Doc. 3967, *G. E. Fox v. The Fair.* Affirmed May 4, 1928.

1,422,202, Henderson & Henderson, Dry kiln, D. C., E. D. La. (New Orleans), Doc. 18840, *N. H. Henderson et al. v. Welch Dry Kiln Co, Inc.* Final decree June 11, 1928.

1,434,029, L. H. Shover, Candy jar, C. C. A., 7th Cir., Doc. 3947, *Parray Horizontal Show Jar Co. v. The D. C. Jenkins Glass Co.* Affirmed May 17, 1928.

1,443,565, F. J. Dolan, Box, filed June 8, 1928, D. C., S. D. N. Y., Doc. E 45/272, *J. M. Price v. Allison Drug Stores, Inc.*

1,480,348, Cadgene & Dupont, Fabric-printing machine, filed Apr. 26, 1928, D. C. N. J. (Trenton), Doc. E 3255, *Lyons Piece Dye Works v. S. M. Schwartz & Co., Inc.*

1,487,189, L. J. Wahl, Clipper, C. C. A., 7th Cir., Doc. 3970, *N. O. Norstrom Electric Mfg. Co. v. L. J. Wahl.* Affirmed May 31, 1928. Doc. 4016, *N. O. Norstrom et al. v. L. J. Wahl.* Affirmed May 31, 1928.

1,545,829, P. E. Herschel, jr., Wheel, C. C. A., 7th Cir., Doc. 4001, *R. H. Herschel Mfg. Co. v. Great States Corp.* Affirmed May 28, 1928.

1,559,980, Perrott & Yablick, Removal of ammonia from air to be breathed, D. C. N. J. (Trenton), Doc. E 1601, *M. Yablick v. Protecto Safety Appliance Corp.* Decree for complainant May 4, 1928.

1,561,836, N. Q. Donnelly, Apron, filed June 6, 1928, D. C., S. D. N. Y., Doc. E 45/267, *Donnelly Garment Co. v. S. Bykowsky et al.* (*The Empire Kimona Co.*). Same, filed June 8, 1928, D. C., S. D. N. Y., Doc. E 45/275. *Donnelly Garment Co. v. I. Kones et al.* Same, D. C. Conn. (New Haven), Doc. 1959, *Donnelly Garment Co. v. Waterbury Apron & Underwear Co. et al.* Same, D. C., S. D. N. Y., Doc. E 45/168, *Donnelly Garment Co. v. A. Negrin.* Patent held valid and infringed June 12, 1928. Same, D. C. Mass., Doc. E 2966, *Donnelly Garment Co. v. N. Nemer* (*Hudson Apron Mfg. Co.*) Injunction June 12, 1928. Doc. E 2967, *Donnelly Garment Co. v. N. E. Haddad et al.* Injunction June 12, 1928. Same, filed May 26, 1928, D. C. Mass., Doc. E 2975, *Donnelly Garment Co. v. M. Podolinsky* (*Bay State Apron Mfg. Co.*).

1,578,607, Levy & Wander, Watch, filed June 6, 1928, D. C., S. D. N. Y., Doc. E 45/265, *M. H. Levy et al. v. S. R. Hoffman et al.* (*Hoffman Watch Co.*).

1,580,287, Colle & Colle, Glass substitute, D. C., S. D. Iowa (Des Moines), Doc. E 4390, *Acetol Products, Inc., v. F. A. Hermann* (*Universal Distributing Co.*). Injunction (notice dated June 12, 1928).

1,588,694, F. Bishop, Lawn edger, D. C., S. D. Calif. (Los Angeles), Doc. K–78–M, *F. Bishop v. F. Wardrop.* Injunction June 11, 1928.

1,589,682, E. E. Hiler, Choke-coil amplification unit, D. C. Mass., Doc. E 2787, *Hiler Audio Corp. v. General Radio Co.* Injunction June 7, 1928.

1,594,047, E. F. Clark, Pocket cigar lighter, filed June 12, 1928, D. C., S. D. N. Y., Doc. E 45/292, *Clark Lighter Co., Inc., v. Segal Lock & Hardware Co., Inc.* Doc. E 45/293, *Clark Lighter Co., Inc., v. Fair Trading Co., Inc.*

1,599,854, Gundy & Scanlin, Manufacture of lubricants, filed June 6, 1928, D. C., S. D. N. Y., Doc. E 45/268, *The Texas Co. v. Sinclair Refining Co.*

1,601,575, L. C. Marshall, Piston packing, filed May 2, 1928, D. C. N. J. (Trenton), Doc. E 3257, *The Simplex Piston Ring Co. of America, Inc., v. Thul Machine & Auto Parts, Inc.* Doc. E 3258, *The Simplex Piston Ring Co. of America, Inc., v. A. C. Simpson.* Doc. E 3259, *The Simplex Piston Ring Co. of America, Inc., v. C. Mellbourne* (*Mellbourne & Ritter Co.*). Doc E 3260, *The Simplex Piston Ring Co. of America, Inc., v. R. Morton.* Doc. E 3261, *The Simplex Piston Ring Co. of America, Inc., v. F. Helelle.* Doc. E 3262, *The Simplex Piston Ring Co. of America, Inc., v. Thacker Motor Service Corp.* Same, filed May 18, 1928, D. C. N. J., Doc. E 3308, *The Simplex Piston Ring Co. of American, Inc., v. E. J. Widmer et al.* Same, D. C. Mass., Doc. E 2963, *The Simplex Piston Ring Co. of America, Inc., v. Christie & Thomson, Inc.* Dismissed without prejudice June 11, 1928.

1,611,875, H. Belmont, Welding apparatus, filed Apr. 25, 1928, D. C. N. J. (Trenton), Doc. E 3254, *Steel & Tubes, Inc., v. General Tube Co.*

1,612,788, J. Walten, Tire flap, C. C. A., 7th Cir., Doc. 4005, *C. O. Tingley & Co. et al. v. Badger Rubber Works.* Reversed and remanded to district court May 24, 1928.

1,621,941, E. E. McGrew, Awning support, filed June 7, 1928, D. C. Nebr. (Omaha), Doc. E 984, *McGrew Machine Co. v. Jubilee Mfg. Co.*

1,628,954, H. H. Dedmon, Card-display receptacle for automobiles, D. C., N. D. Calif. (Sacramento), Doc. 251, *H. H. Dedmon et al. v. Morris Mfg. Co. et al.* Patent held valid and infringed (notice dated June 6, 1928).

1,629,658, O. Fox, Water heater, filed June 11, 1928, D. C., N. D. Ohio, E. Div., Doc. 2601, *The Bryant Heater & Mfg. Co. v. The B-Line Boiler Co.*

1,637,855, W. J. Butler, Cigar lighter, filed June 14, 1928, D. C. R. I. (Providence), Doc. 300, *H. Lederer & Bro., Inc., v. A. Travis.*

1,649,484, C. Norton, Door lock and electric switch, filed June 12, 1928, D. C., S. D. N. Y., Doc. E 45/294. *Elevator Supplies Co., Inc., v. Graham & Norton Co. et al.*

1,667,190, S. L. Campbell, Rotary underreamer, filed June 2, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E N–103–J, *J. Grant v. MacClatchie Mfg. Co.*

1,670,460, J. G. Leibold, Sleeping bag, filed June 6, 1928, D. C., N. D. Calif. (San Francisco), Doc. E 2131, *J. G. Leibold v. Simon Mattress Mfg. Co.*

Des. 69,887, F. W. Horstmann, Fur, D. C. N. J., Doc. E 2521, *F. W. Horstmann et al. v. P. A. Singer & Bro., Inc.* Injunction only May 15, 1928.

Des. 72,753, L. Biva, Textile fabric, D. C., S. D. N. Y., Doc. E 44/95, *T. Blatter & Co. v. F. H. Gage et al.* (*Rousmaniere, Williams & Co.*). Order of discontinuance June 6, 1928.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 31, 1928.

[VOL. 372. No. 5.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 265,524. CORNSTALK PRODUCTS COMPANY, INC., New York, N. Y. Filed Apr. 28, 1928.



Exclusive ownership of the word "Cornstalk" apart from the mark as shown is disclaimed.

For Bleached and Unbleached Chemical Pulp of Ordinary Grades and Also of High Alpha Content.

Claims use since Mar. 31, 1928.

Ser. No. 267,045. THE GULF & WEST INDIES CO., INC., New York, N. Y. Filed May 26, 1928.

NAPOLEON

For Chamois.

Claims use since Sept. 14, 1925.

CLASS 3.

Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 268,108. L. J. & M. LEFKOWITZ, INC., New York, N. Y. Filed June 15, 1928.

The Puggie BAG

No claim is made to the exclusive use of the word "Bag" apart from the mark as shown in the drawing.

For Hand Bags.

Claims use since May 1, 1928.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 234,231. SAMOLINE CORPORATION, Chicago, Ill. Filed July 6, 1926.



No claim is made to the expression "Clean-Up" apart from the mark as shown in the drawing.

For Paint-Cleaning Compounds.

Claims use since December, 1919.

Ser. No. 252,257. JOHN DI CIO, doing business as Ros Rol Co., Norristown, Pa. Filed July 19, 1927.

ROS ROL

For Liquid Cleaner for Rubber Rolls, Particularly for the Platen of Typewriters, etc.
Claims use since Aug. 1, 1919.

Ser. No. 256,151. M. O. WILKINS CORPORATION, New York, N. Y. Filed Oct. 15, 1927.

KAL-KAR KEEP KLEAN

The words "Keep Klean" appearing on the drawing being descriptive of the goods are disclaimed.
For Household Cleanser Consisting Principally of Pulverized Saponaceous Clay.
Claims use since Oct. 15, 1927.

Ser. No. 264,511. FEDERAL DISTRIBUTORS, INC., Portland, Oreg. Filed Apr. 7, 1928.

Lucky Girl

For Powdered Soap, Mechanic's Soap, Toilet Soap, and Metal Polish and Auto Top Dressing and Shaving Solution.
Claims use since Sept. 1, 1927.

Ser. No. 265,913. ALBERT G. MAAS, Indianapolis, Ind. Filed May 4, 1928.

MAAS' Cleanine

For Dry-Cleaning Preparation for Cleaning Running Boards and Footboards of Automobiles, Various Articles of Clothing, Woolens, and All Delicate Fabrics.
Claims use since February, 1920.

Ser. No. 266,701. B. T. BABBITT, INC., New York, N. Y. Filed May 21, 1928.

ALBUS

For Cleansing Powder for Artificial Teeth.
Claims use since May 1, 1928.

Ser. No. 266,719. WILLIAM DUNKLIN, doing business as The Klindun Company, New York, N. Y. Filed May 21, 1928.

Dippo

For Linotype-Matrix Cleaner.
Claims use since Apr. 13, 1928.

CLASS 5.

Adhesives.

Ser. No. 233,615. I. F. LAUCKS, INC., Seattle, Wash. Filed June 22, 1926.

LAUXEIN
LAUCKS WATERPROOF GLUE

Applicant disclaims the right to the words "Waterproof Glue" apart from the mark as shown in the drawing.
For Glue.
Claims use since May 5, 1926.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 257,255. E. I. RODGERS, doing business as Irving Chemical Company, San Antonio, Tex. Filed Nov. 8, 1927.

IRVING'S DENTAL TISSUETONE

The word "Dental" is disclaimed apart from the mark shown.
For Dental Preparation Used in the Treatment of Pyorrhea, Alveolaris, Ulcerated and Bleeding Gums, and as an Antiseptic and General Prophylaxis.
Claims use since Dec. 10, 1926.

Ser. No. 258,796. CHEMICAL SURGERY CO., Oakland, Calif. Filed Dec. 12, 1927.

TRADE CHEMICAL SURGERY MARK

No claim is made to the words "Trade" and "Mark."
For Therapeutic Bath Compounds for the Alleviation of Rheumatism, Paralysis, Kidney and Spine Disorders, Neuritis, and Similar General Body Diseases.
Claims use since Aug. 1, 1927.

Ser. No. 261,063. ABRAHAM M. KARLINSKY, doing business as The Karlo Products Company, Cleveland, Ohio. Filed Feb. 2, 1928.

KARLOMINT

For Candy-Mint Laxatives.
Claims use since Sept. 15, 1926.

Ser. No. 265,131. PIERRE ROOS, doing business as Pierre, New York, N. Y., and Paris, France. Filed Apr. 19, 1928.

Pierre

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Basic Creams, Corrective Creams, Protective Creams, Astringent Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Acne Lotions, Astringent Lotions, Skin Tonics, Eye Lotions, Face Powders, Toilet Powders, Liquid Face Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Henna Rinses, Hair Bleaches, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Eyebrow Pencils, Incense, Nail Powders, Nail Creams, Nail Rouges, Nail Bleaches, Muscle Oils, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Foot Creams, Deodorants, Disinfectants, Bay Rum, Florida Water, Perfumes, and Toilet Waters.
Claims use since 1904.

Ser. No. 266,086. HAROLD C. JENKINS, doing business as Jenkins Pharmacal Co., Los Angeles, Calif. Filed May 8, 1928.

JPCo

For Emmenagogue.
Claims use since about June 1, 1927.

Ser. No. 266,111. THREE SISTERS, Philadelphia, Pa. Filed May 8, 1928.

Three Sisters Bleach

Applicant disclaims the word "Bleach" except as used in connection with the said mark.
For Preparation for Bleaching and Removing Stains—Namely, An Unbleached-Cotton Bleach, Stained-Linen Bleach, Ink-Stain Remover, Blood-Stain Remover, Iodine-Stain Remover, Tea-Stain Remover, Fruit-Stain Remover, or Coffee-Stain Remover.
Claims use since Mar. 6, 1928.

Ser. No. 266,408. CHAS. T. TRENGOVE, also doing business as Trengove's Poultry Farm, Portland, Oreg. Filed May 14, 1928.

TRENGOVE'S NON-PIKK

For Antiseptic Medicinal Preparation Applied on Poultry to Prevent Toe Picking and Rump Picking, Feather Pulling, and Containing Elements Beneficial to the Skin of Poultry.
Claims use since Feb. 15, 1928.

Ser. No. 267,215. STE AME M. NAEF & CIE., Geneva, Switzerland. Filed May 29, 1928.

"IGEROL"

For Artificial and Synthetical Perfumes, Essential Oils.
Claims use since Oct. 1, 1927.

Ser. No. 267,216. STE AME M. NAEF & CIE., Geneva, Switzerland. Filed May 29, 1928.

"POLYONE"

For Artificial and Synthetical Perfumes, Essential Oils.
Claims use since Jan. 20, 1928.

Ser. No. 267,250. GENERAL RESEARCH LABORATORIES, INC., Sebring, Fla. Filed May 31, 1928.

SEGAS

For Therapeutic, Nontonic, Nonirritant, Nonpoisonous Liquid Containing No Alcohol, No Narcotics, and No Cathartics for the Treatment of the Gastrointestinal Tract.
Claims use since Feb. 1, 1928.

Ser. No. 267,296. CARRIER ENGINEERING CORPORATION, Newark, N. J. Filed June 1, 1928.

CARRENE

For Refrigerants or Liquid Refrigerating Mediums Used in Effecting Refrigeration.
Claims use since March, 1927.

Ser. No. 267,869. HELEN SOBEL, doing business as Hart-So Mfg. Co., Oklahoma City, Okla. Filed June 11, 1928.



For Face Lotion.
Claims use since Apr. 23, 1928.

Ser. No. 267,885. WILLIAM ROSS CHAMBERLIN ASHBY, Woldingham, England. Filed June 12, 1928.

Di-miska

For a Toilet Cream for Human Use.
Claims use since June 30, 1927.

Ser. No. 267,894. GEORGE J. KATZ, doing business as Kay Laboratories, Chicago, Ill. Filed June 12, 1928.

PEDODYNE

For Foot Powder and a Remedy for the Treatment of Corns, Bunions, and Callouses.
Claims use since Jan. 1, 1920.

Ser. No. 267,966. MORRIS BUD KALLISON, doing business as Mek Laboratories, Chicago, Ill. Filed June 13, 1928.



For Preparation for the Treatment of Coughs and Colds.
Claims use since Nov. 2, 1925.

Ser. No. 268,033. VIRGINIA LEE FORD, doing business as The Cochran Company, Hays, Kans. Filed June 14, 1928.



For Poultry Tonic.
Claims use since Dec. 1, 1927.

Ser. No. 268,152. GEO. C. V. FESLER COMPANY, St. Louis, Mo. Filed June 16, 1928.

DEW

For Deodorant.
Claims use since Mar. 1, 1912.

CLASS 11.

Inks and Inking Materials.

Ser. No. 268,199. GÜNTHER WAGNER, Hanover, Germany. Filed June 16, 1928.



Pelikan

For Typewriting Ribbons, Carbon Paper, and Inking Pads.
Claims use since 1926.

CLASS 12.

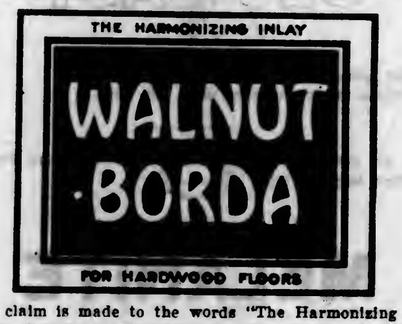
Construction Materials.

Ser. No. 251,789. PERMANENT CONCRETE PRODUCTS, INC., Greenville, Ohio. Filed July 9, 1927.



For Preformed Concrete Structure Units for Road Construction—Namely, Railroad-Crossing Slabs, Railroad Crossties, Fence Posts, Mile Posts, Elevation Posts, Signal Posts, and Foundations.
Claims use since May 2, 1927.

Ser. No. 264,716. ROBERT E. CROTTY, Newark, N. J. Filed Apr. 12, 1928.



No claim is made to the words "The Harmonizing Inlay for Hardwood Floors" or to the trade-mark "Walnut-Borda" apart from the mark as shown.
For Walnut Borders, Strips, and Flooring of Wood.
Claims use since Feb. 1, 1928.

Ser. No. 266,388. MISSOURI PORTLAND CEMENT COMPANY, St. Louis, Mo. Filed May 14, 1928.



The lining on the inner circle indicates the color red, and the lining of the script indicates the color green.
For Building Cement.
Claims use since Apr. 19, 1928.

Ser. No. 266,905. ALABAMA BRICK & TILE CO., Decatur, Ala. Filed May 24, 1928.

ALA-TEX

For Building Brick.
Claims use since Dec. 30, 1925.

Ser. No. 267,565. THE FLINTKOTE COMPANY, Boston, Mass. Filed June 6, 1928.

TEANECK BROWN

Applicant disclaims the use of the word "Brown" apart from the mark as shown.
For Asphaltic Composition Roofing Shingles.
Claims use since on or about October, 1926.

Ser. No. 267,566. THE FLINTKOTE COMPANY, Boston, Mass. Filed June 6, 1928.

KOLORDRIFT

For Asphaltic Composition Roofing Shingles.
Claims use since on or about Jan. 1, 1927.

Ser. No. 267,568. THE FLINTKOTE COMPANY, Boston, Mass. Filed June 6, 1928.

COLORTONE

For Asphaltic Composition Roofing Shingles.
Claims use since Jan. 1, 1927.

Ser. No. 267,571. THE FLINTKOTE COMPANY, Boston, Mass. Filed June 6, 1928.

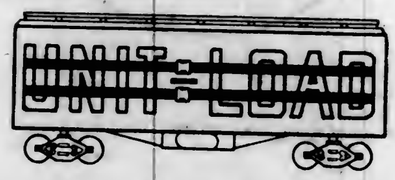
KOOLCOLOR

For Asphaltic Composition Roofing Shingles.
Claims use since on or about July 1, 1927.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 265,765. ACME STEEL COMPANY, Chicago, Ill. Filed May 2, 1928.



For Bands, Stays, Open Seals, and Seals Used in Reinforcing Boxes and Packages and in the Practice of Loading Freight Cars and Other Carriers.
Claims use since Mar. 17, 1927.

Ser. No. 268,146. WILLIAM L. DEMING, Salem, Ohio. Filed June 16, 1928.

THERMIX

For Mixing Faucets, Valves, Nozzles, and Connections.
Claims use since May 29, 1928.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 264,568. BERRY J. DAVIS, doing business as World Star Paint Co., Kansas City, Mo. Filed Apr. 9, 1928.

WORLD ★ STAR



For House Paint, Barn Paint, Flat Wall Paint, Wall Size for Painting, Interior Enamel, Enamel Undercoat, Shingle Stain, Roof Paint, Screen Paint, Oil Stain, Wagon Paint, Interior Varnish Outside Spar Varnish, Household Lacquer, Stucco Paint, Inside Floor Paint, Porch-Floor Paint, Varnish Stain.
Claims use since Feb. 23, 1928.

Ser. No. 264,865. RICHARD W. BOWLES, Bellingham, Wash. Filed Apr. 16, 1928.



The name shown in the drawing is applicant's signature.
For Shingle Stain, Automobile Polish and a Preparation for Cleaning and Polishing Finished Floors.
Claims use since Jan. 1, 1927.

Ser. No. 265,318. C and H PRODUCTS CORPORATION, New York, N. Y. Filed Apr. 24, 1928.

Sku-glean

For Metallic Paint Consisting of Dry Metallic Powders and Liquid for Mixing.
Claims use since Mar. 24, 1928.

Ser. No. 266,107. STANDARD DRUG COMPANY, Los Angeles, Calif. Filed May 8, 1928.

GLO-LAST

For Automobile and Furniture Polish.
Claims use since about Sept. 20, 1927.

Ser. No. 266,662. HERVÉ, HERVÉ & HERVÉ, Paris, France. Filed May 19, 1928.

MELANITE

For Painters' Sizing Compositions.
Claims use since Apr. 1, 1921.

CLASS 17.

Tobacco Products.

Ser. No. 264,531. PETRI CIGAR CO. INC., San Francisco, Calif. Filed Apr. 7, 1928.



The portrait is that of the late commander-in-chief of the Italian army, General Armando Diaz.
For Cigars.
Claims use since Mar. 1, 1921.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 242,945. BOEING AIRPLANE COMPANY, Seattle, Wash. Filed Jan. 17, 1927.



The present applicant is also the owner of registration No. 182,993, issued Apr. 22, 1924.
For Airplanes and Structural Parts.
Claims use since Oct. 17, 1926.

Ser. No. 264,346. AMPLEX MANUFACTURING COMPANY, Detroit, Mich., assignor to De Soto Motor Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 5, 1928.



The drawing is lined conventionally to show blue and gold colors.
For Automobiles and Their Structural Parts.
Claims use since Mar. 30, 1928.

Ser. No. 267,824. AMERICAN EAGLE AIRCRAFT CORPORATION, Kansas City, Mo. Filed June 11, 1928.



THE AMERICAN EAGLE

For Airplanes.
Claims use since July, 1926.

Ser. No. 268,037. HILL MANUFACTURING COMPANY, INC., Belmond, Iowa. Filed June 14, 1928.



For Automobile Awnings.
Claims use since November, 1927.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 267,011. THE RATTAN MANUFACTURING CO., New Haven, Conn. Filed May 25, 1928.

RATTAN

For Conduit Fittings, Outlet Boxes, and Covers.
Claims use since June 1, 1920.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 256,708. B-I TRADE BUILDERS, Chicago, Ill. Filed Oct. 28, 1927.

GYRO-COASTER

Without waiving any of its common-law rights applicant hereby disclaims the right to the exclusive use of the word "Coaster" except in the association shown.
For Toy Wagons.
Claims use since Sept. 1, 1927.

Ser. No. 260,833. MONTAGUE ROD AND REEL COMPANY, Montague City, Mass. Filed Jan. 28, 1928.

MONTAGUE



MANITOU

Applicant is the owner of registration No. 223,732, Feb. 8, 1927.
For Fishing Rods.
Claims use since Oct. 18, 1927.

Ser. No. 263,249. WIMBAR, INC., New York, N. Y. Filed Mar. 15, 1928.

THE PERWHIT

For Golf Irons and Golf Clubs.
Claims use since on or about August, 1927.

Ser. No. 264,872. DES MOINES WOOD PRODUCTS COMPANY, Des Moines, Iowa. Filed Apr. 16, 1928.

Putt-Er-In

For Golf-Putting Practice Device.
Claims use since Jan. 1, 1928.

Ser. No. 266,205. THE KROYDON COMPANY, Hilton, N. J. Filed May 10, 1928.

Hy-Power

For Golf Clubs, Golf Balls, Golf Bags, and Golf Tees.
Claims use since Nov. 15, 1923.

Ser. No. 267,648. THE FENN MANUFACTURING COMPANY, Charlotte, Mich. Filed June 7, 1928.

Flying Cloud

For Coaster Sleds.
Claims use since May 1, 1927.

Ser. No. 268,021. CARSON PIRIE SCOTT & CO., Chicago, Ill. Filed June 14, 1928.

TUFFEE

For Golf Balls.
Claims use since May 10, 1927.

Ser. No. 268,215. DEEKS MANUFACTURING COMPANY, INC., Camden, N. J. Filed June 18, 1928.

FUNGUN

For Toy Guns, Felt-Nose Bullets and Other Projectiles Therefor, and Targets Used Therewith.
Claims use since on or about Nov. 26, 1927, on toy guns, and since on or about Jan. 10, 1928, on bullets and targets.

Ser. No. 268,505. R. H. MACY & CO., INC., New York, N. Y. Filed June 22, 1928.



The star symbol is shown in red color.
For Golf Clubs.
Claims use since Apr. 14, 1928.

CLASS 23.

Cutlery, Machinery, and Tools; and Parts Thereof.

Ser. No. 253,162. REMINGTON ARMS COMPANY, INC., Bridgeport, Conn., and Ilion and New York, N. Y. Filed Aug. 6, 1927. Under section 5b of the act of 1905 as amended in 1920.

REMINGTON

For Vending Machines.
Claims use since about June 18, 1927.

Ser. No. 264,136. CARL FR. BRAUER, G. M. B. H., Stettin, Germany. Filed Apr. 2, 1928.

ARLAC

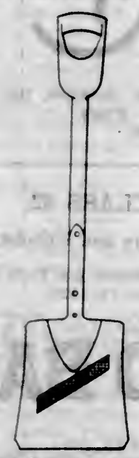
For Spools for Typewriters.
Claims use since 1909.

Ser. No. 265,539. C. HAMMOND & SON INCORPORATED, Elkins Park, Pa. Filed Apr. 28, 1928.



No claim is made to the exclusive use of representation of a hammer apart from the mark shown in the drawing. The trade-mark consists of a band of gold bronze around the neck of the hammer, gold bronze upon the upper and lower surfaces of the adze eye and upon the entire rear faces of the claws and the entire surfaces between the claws. The remainder of the showing on the surface of the hammer is in the natural color of the metal. The cross-line shading on the drawing denotes gold bronze.
For Hammers.
Claims use since Apr. 1, 1928.

Ser. No. 266,234. AMES SHOVEL & TOOL COMPANY, Boston, Mass. Filed May 11, 1928.



The trade-mark consists of a narrow band of gold color of uniform width applied obliquely across the center of the front face of the shovel, spade, or scoop, as shown in the drawing, wherein the lining used indicates gold color.
For Shovels, Spades, and Scoops.
Claims use since May 4, 1928.

Ser. No. 266,945. NEW JERSEY MACHINE CORPORATION, Hoboken, N. J. Filed May 24, 1928.

NEW JERSEY MACHINE CORPORATION

For Gumming Machines, Machines for Drying Adhesive Coatings, Roll-Gumming Machines, Cardboard-Grooving Machines, Box-Stripping Machines, Box-Covering Machines, Labeling Machines, Neck-Inserting Machines, Box-Gluing Machines, Shoulder-Making Machines, Round-Can-Labeling Machines, Machines for Adhesively Combining Sheets of Material, Machines for Making Mailing Tubes, Container Tubes, and the Like, Box-Printing Machines, and Parts Thereof.
Claims use since May 10, 1928.

Ser. No. 267,056. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis. Filed May 26, 1928.

Jamesway

For Feed, Litter, Milk Cans, and Swill Carriers and Carrier Tracking, Including Hangers and Fittings; Barn-Floor Scrapers; Poultry Equipment—Namely, Dropping-Board Scrapers; Feed Scoops, Sprayers for Poultry Houses and Other Farm Buildings; and Hay Tools, Including Carrier Track and Fittings Thereof, Sold as a Unit, Farm Cranes, and Outside Metal Supports for Litter-Carrier Tracks.
Claims use since Mar. 1, 1921.

CLASS 24.

Laundry Appliances and Machines.

Ser. No. 265,182. THE AMERICAN LAUNDRY MACHINERY COMPANY, Norwood Station, Cincinnati, Ohio. Filed Apr. 21, 1928.

ALMCO

For Laundry and Dry-Cleaning Machinery and Appliances—Namely, Flat-Work-Ironing Machines, Feeding Devices for Flat-Work-Ironing Machines, Washing Machines of Various Kinds, Drying Machines of Various Kinds, Dry-Cleaning Apparatus, Sterilizers, Extractors of Various Kinds, Dry Rooms of Various Types, Blanket Dryers, Starching Machines, Starch Cookers, Starch Mixers, Pressing Machines of Various Kinds, Dampeners; Miscellaneous Ironing Machines—Namely, Ironing Boards, Folding and Finishing Tables, Combined Ironers, Band Ironers, Sleeve Ironers, Body Ironers, Finters, Puff Irons,

Yoke Setters, Collar and Cuff Ironers, Including Shapers, Edgers, Turners, and Tippers; and Miscellaneous Machines and Devices—Namely, Truck Tubs, Stationary Tubs, Steam Tables, Wiping Tables, Soap Tanks, Eyelet Raisers, Spotting Tables, Finishing Tables, Folding Tables, Starch Tables, Dust Wheels for Laundry Machinery, Pants and Skirt Steamers, Knit-Fabric Ironers, Gasoline Devices for Laundry Machinery, Pneumatic Cleaners, Clothes Elevators, Automatic Inlet Valves for Laundry Machinery, Revolving Hand Ironing Tables, Conveyers, Lace-Curtain Dryers, Blanket-Brushing Machines, Classification Tables, Assembly Racks, and Burnishing Machines.

Claims use since 1896.

CLASS 25.

Locks and Safes.

Ser. No. 266,644. E. J. BROOKS AND COMPANY, New York, N. Y. Filed May 19, 1928.



For Base-Metal Truck-Car and Shipping-Case Seals, Seals for Containers and Packages, and Seals for Tags.

Claims use since 1885.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 263,793. THERMATROL MANUFACTURING CO., Springfield, Mass. Filed Mar. 26, 1928.

THERMATROL

For Thermostatically-Controlled Heat Regulators.

Claims use since Jan. 16, 1928.

CLASS 27.

Horological Instruments.

Ser. No. 267,542. Hayman Epstein, doing business as Bulwark Watch Company, New York, N. Y. Filed June 6, 1928.

BULWARK

For Watches, Watchcases, Watch Movements, and Parts Thereof.

Claims use since Apr. 15, 1928.

Ser. No. 268,005. TIFFANY & COMPANY, New York, N. Y. Filed June 13, 1928.

T&Co

For Watches and Clocks.

Claims use since Aug. 13, 1875.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 267,008. ONEIDA COMMUNITY LIMITED, Oneida, N. Y. Filed May 25, 1928.

ENCHANTMENT

For Silver-Plated Flatware, Hollow Ware, and Cutlery.

Claims use since Mar. 3, 1928.

Ser. No. 267,436. THE MELMS MANUFACTURING CO., INC., Detroit, Mich. Filed June 4, 1928.

LOVBAND

For Finger Rings.

Claims use since Feb. 1, 1928.

Ser. No. 267,489. ARTHUR W. FORMAN, doing business as Cooper & Forman, New York, N. Y. Filed June 5, 1928.



For Platinum Rings, Brooches, Bar Pins, Lavalliers, Bracelets, and Signet Rings.

Claims use since 1898.

CLASS 32.

Furniture and Upholstery.

Ser. No. 268,198. YAWMAN AND ERBE MFG. CO., Rochester, N. Y. Filed June 16, 1928.

RED BAND

The drawing is lined for red.

For Ledger Card Trays of Sheet Metal.

Claims use since Oct. 31, 1927.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 265,833. FREDERICK EHRSAM, doing business as The Victor Screen Ventilator Co., Reading, Pa. Filed May 3, 1928.

VICTOR

For Deflector and Adjustable Lower-Window Ventilators and Parts Thereof.

Claims use since March, 1927.

Ser. No. 266,767. THE SURFACE COMBUSTION COMPANY, INC., Toledo, Ohio. Filed May 21, 1928.



For Heating Apparatus for Use in the Industrial Arts—Namely, the Following Types of Gas and Oil Fired Apparatus: Rivet Heaters, Oil-Tempering Furnaces, Large Oven Furnaces for Carbonizing and Annealing, Small Oven Furnaces for Hardening and Annealing, Forge Furnaces, Billet-Heating Furnaces, Sheet and Pair Furnaces, Sheet-Normalizing Furnaces, Double-Oven Furnaces for High-Speed Steel, Pot-Hardening Furnaces for Cyanide, Lead, and Barium Chloride, Soft-Metal-Melting Furnaces, Crucible Brass-Melting Furnaces, Aluminum-Melting Furnaces, Glue Heaters, Air Heaters, General-Utility Bench Furnaces (Oven or Muffle Type), Solder Iron Heaters, Tank or Cauldron Heaters for Boiling Miscellaneous Materials, Stereotype Furnaces, Confectioners' Furnaces, Bake Ovens of Shelf Type without Conveyer, Furnaces for Enameling Bathtubs, Kitchen Ware, and the Like, Japanning Ovens, Wire-Heating Ovens, and Continuous Tunnel-Kiln Furnaces for Treating Clay Products.

Claims use since Jan. 2, 1925.

Ser. No. 267,052. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis. Filed May 26, 1928.

Jamesway

For Metal Gravity Roof Ventilators; Gravity Ventilating Systems for Farm Use Consisting of Gravity Roof Ventilators, Flue, Louvers, Valves, and Accessories and Parts Therefor; Brooder Stoves, Both Coal and Oil Burning; Coal and Oil Poultry-House Heating Systems.

Claims use since Mar. 1, 1921.

CLASS 37.

Paper and Stationery.

Ser. No. 263,172. THOMAS J. MITCHELL, doing business as National Pad and Paper Company, Utica, N. Y. Filed Mar. 14, 1928.



The words "Writing Tablet" are disclaimed apart from the mark shown.

For Writing Tablets, Composition Books, Notebooks, and Writing Papers.

Claims use since Apr. 1, 1926.

Ser. No. 266,714. CAPITAL PAPER COMPANY, Indianapolis, Ind. Filed May 21, 1928.

ARBOR

For Toilet Paper.

Claims use since Oct. 20, 1927.

Ser. No. 266,949. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed May 24, 1928.

PenHi

For Pencil Tablets, Composition Books, Notebooks, Spelling Tablets, Music Tablets, and Loose-Leaf Binders.

Claims use since May 8, 1928.

Ser. No. 267,404. C. F. BURGESS LABORATORIES, INC., Madison, Wis. Filed June 4, 1928.

REPEATER

For Stereotype Mats.
Claims use since May 12, 1928.

Ser. No. 267,900. ALVIN C. OSTERMEYER, doing business as Ostermeyer Paper Company, Indianapolis, Ind. Filed June 12, 1928.

SANITEX

For Paper Products—Namely, Toilet Paper and Paper Towels.
Claims use since 1921.

Ser. No. 268,077. CANODE INK COMPANY, INC., Chicago, Ill. Filed June 15, 1928.

E-Z

For Stencils and Stencil Paper.
Claims use since May 1, 1928.

CLASS 38.

Prints and Publications.

Ser. No. 248,928. PUBLIX THEATRES CORPORATION, New York, N. Y. Filed May 12, 1927.

PUBLIX CHEX

No registration rights are claimed for the word "Chex."
For Coupon Books and Coupons.
Claims use since May 4, 1927.

Ser. No. 264,686. FRED A. HOLTZ, Elkhart, Ind. Filed Apr. 11, 1928.

THRIFT-O-METER

For Chart for Illustrating Household Expenditures.
Claims use since Mar. 14, 1928.

Ser. No. 264,898. NATURAL EYESIGHT INSTITUTE INC., Los Angeles, Calif. Filed Apr. 16, 1928.



For Instruction Courses Published in a Series—Namely, Charts, Illustrations, Diagrams, Textbooks, and Educational Literature.
Claims use since Apr. 1, 1927.

Ser. No. 266,377. THE JACOBSEN PUBLISHING COMPANY, Chicago, Ill. Filed May 14, 1928.

SHOES ILLUSTRATED

For Magazines and Magazine Sections Published Monthly.
Claims use since Oct. 21, 1926.

Ser. No. 266,995. THE JACOBSEN PUBLISHING COMPANY, Chicago, Ill. Filed May 25, 1928.

THE TANNERY

For Magazine Supplement.
Claims use since on or about Apr. 4, 1925.

Ser. No. 267,257. THE INDUSTRIAL EXECUTIVE, INC., New York, N. Y. Filed May 31, 1928.

THE INDUSTRIAL EXECUTIVE

For Periodical Devoted to the Human Problems of Industry.
Claims use since Apr. 12, 1928.

CLASS 39.

Clothing.

Ser. No. 259,859. EMANUEL LOBEL, New York, N. Y. Filed Jan. 9, 1928.



No claim is made to the words "Kiddy-Wear" apart from the mark shown in the drawing. The representation of the figure of the girl is fanciful.
For Girls' Coats.
Claims use since 1920.

Ser. No. 262,634. J. B. STRAUSS & CO., New York, N. Y. Filed Mar. 5, 1928.



The lining appearing in the drawing is for the purpose of indicating the color red.
For Men's and Boys' Outer Suits, Coats, Vests, Trousers, Topcoats, and Overcoats.
Claims use since about August, 1926.

Ser. No. 265,804. PENNER & BERKOWITZ, New York, N. Y. Filed May 2, 1928.

Pennbrook
FASHION CLOTHES
100% ALL WOOL

The descriptive words "Fashion Clothes" and "100% All Wool" are disclaimed apart from the mark as shown on the drawing.
For Boys' and Young Men's Suits and Overcoats.
Claims use since Aug. 1, 1928.

Ser. No. 265,936. E. M. TOWNSEND & CO., New York, N. Y. Filed May 4, 1928.

BABY GRACE

For Men's, Women's, and Children's Hosiery, and Underwear of Knitted, Netted, and Textile Fabrics.
Claims use since June, 1913.

Ser. No. 266,325. WILLIAM KLEINBERG, doing business as Clara Barton Nurses' Apparel, Rochester, N. Y. Filed May 12, 1928.

SaniGown

The word "Gown" is disclaimed apart from the mark shown in the drawing.
For Paper Gowns for Protection Against Communicable Diseases.
Claims use since Dec. 19, 1927.

Ser. No. 266,546. SAMUEL D. LASDON & CO. INC., New York, N. Y. Filed May 17, 1928.



No claim is made to the word "Lasdon" apart from the mark shown on the drawing.
For Ladies' and Misses' Hats.
Claims use since about Feb. 1, 1928.

Ser. No. 267,481. BEAR BRAND HOSIERY CO., Chicago, Ill. Filed June 5, 1928.

CURLY HEAD

For Hosiery.
Claims use since May 22, 1928.

Ser. No. 267,496. S. LIEBOVITZ & SONS, INC., New York, N. Y. Filed June 5, 1928.

"THEE"

For Dress and Negligee Shirts for Men and Boys.
Claims use since May 9, 1928.

Ser. No. 267,497. S. LIEBOVITZ & SONS, INC., New York, N. Y. Filed June 5, 1928.

KING PIPPIN

For Dress and Negligee Shirts for Men and Boys.
Claims use since May 9, 1928.

Ser. No. 267,511. ROCHESTER GARMENT SHOP, St. Paul, Minn. Filed June 5, 1928.

GOLD ★ STAR

For Women's Clothing—Namely, Nurses' Uniforms.
Claims use since June 1, 1928.

Ser. No. 267,694. CARSON PIRIE SCOTT & Co., Chicago, Ill. Filed June 8, 1928.

ALDWYCH

For Men's Collars.
Claims use since about May 10, 1927.

CLASS 40.

Fancy Goods, Furnishings, and Notions.

Ser. No. 265,388. BERTA LAMBERT, White Creek, Wis. Filed Apr. 25, 1928.

Lady Luck

For Medallions Made of Fabric, Leatherette, or Paper for Silhouette and Other Decorative Purposes.
Claims use since June, 1917.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 262,490. SIBSON & STERN, INC., Philadelphia, Pa. Filed Mar. 1, 1928.

SERV-US

For Dishcloths, Bar Cloths, Floor Cloths, Pot Holders, Table Mats, and Chair Covers of Knitted and Woven Fabric.
Claims use since Dec. 7, 1927.

Ser. No. 265,014. MRS. W. H. ROCHESTER, Enid, Okla. Filed Apr. 17, 1928.

Rochester

The word "Rochester" is disclaimed apart from the mark shown in the drawing.
For Handmade Handkerchiefs.
Claims use since Aug. 1, 1925.

Ser. No. 266,039. NEUSS HESSLEIN & CO. INC., New York, N. Y. Filed May 7, 1928.

REGENTE

For Cotton Piece Goods.
Claims use since March, 1926.

Ser. No. 268,092. GRANDE MAISON DE BLANC, INC., New York, N. Y. Filed June 15, 1928.

„La Rêve"

For Cotton Sheets and Pillowcases.
Claims use since Feb. 1, 1928.

Ser. No. 268,226. HOLDEN-LEONARD COMPANY, New York, N. Y. Filed June 18, 1928.

"DULCINEA"

For Worsted and Woolen Textile Fabrics.
Claims use since about Jan. 15, 1928.

Ser. No. 268,350. CHENEY BROTHERS, South Manchester, Conn. Filed June 20, 1928.

Tisane

For Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.
Claims use since June 11, 1928.

Ser. No. 268,444. JOSHUA HOYLE & SONS, LTD. INC., New York, N. Y. Filed June 21, 1928.

KANDY KID

For Cotton Piece Goods.
Claims use since June 5, 1928.

Ser. No. 268,467. LOUIS A. SILK, New York, N. Y. Filed June 21, 1928.

EDELWEISS

For Handkerchiefs.
Claims use since June 1, 1928.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 260,235. PACIFIC HAIR GOODS CO., INC., San Francisco, Calif. Filed Jan. 17, 1928.

DUART

For Hair-Waving Machines, Protectors, and Permanent-Waving Pads for Use Therewith.
Claims use since Jan. 1, 1928.

Ser. No. 264,535. THE SCHOLL MFG. CO. INC., Chicago, Ill. Filed Apr. 7, 1928.

Osteopedic

For Arch Supports.
Claims use since Mar. 28, 1928.

Ser. No. 265,380. FRANK W. GORSE CO., Needham, Mass. Filed Apr. 25, 1928.



For Knitted Surgical Elastic Stockings, Abdominal Supports, Surgical Belts, Bandages, Composed Wholly or in Part of Elastic Threads.
Claims use since 1893.

Ser. No. 266,882. THE R. F. CORP., Boston, Mass. Filed May 23, 1928. Under 10-year proviso.

Harvard

For Clinical Thermometers.
Claims use since Jan. 1, 1895.

Ser. No. 266,932. J. A. HENCKELS, Solingen, Germany. Filed May 24, 1928.



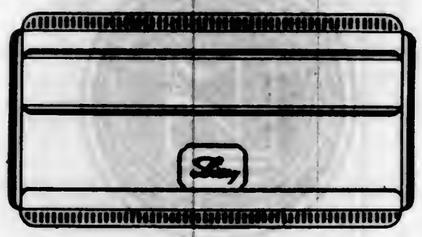
For Nail Scissors, Cuticle Scissors, Surgical Shears, Corn Razors, Cuticle Nippers, Nail Nippers, Nail Clippers, Nail Files, Nail Cleaners, Cuticle Pushers, Tweezers, Corn Knives, Cuticle Knives, Nail Knives, and Manicure Sets.
Claims use since 1731.

Ser. No. 267,108. ANDREWS CRANE CORPORATION, doing business as Vibrating Roller Co., New York, N. Y. Filed May 28, 1928.

Vibroll

Vibrating Massage Instruments.
Claims use since Apr. 11, 1928.

Ser. No. 268,044. ELI LILLY AND COMPANY, Indianapolis, Ind. Filed June 14, 1928.



For Rectal Analgesia Accessory Sets.
Claims use since May 15, 1928.

Ser. No. 268,157. L. HILSENBECK, INC., New York, N. Y. Filed June 16, 1928.

RAMSES

For Prophylactic Rubber Articles for the Prevention of Contageous Diseases.
Claims use since Mar. 19, 1926.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 255,895. CALEDONIA SPRINGS CORPORATION LIMITED, Montreal, Canada. Filed Oct. 11, 1927.

ADANAC

For Ginger Ale.
Claims use since Nov. 1, 1915.

Ser. No. 266,837. SUPREME BEVERAGE CO., Chicago, Ill. Filed May 22, 1928.

Supreme Club

For Maltless Carbonated Beverages Sold as Soft Drinks.
Claims use since about 1918.

Ser. No. 267,587. BERNARD KLEINSCHMIDT, New York, N. Y. Filed June 6, 1928.

Konac

For Nonalcoholic, Carbonated Beverages.
Claims use since about May 1, 1928.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 247,017. FRANK GORE, Los Angeles, Calif. Filed Apr. 6, 1927.



For Fresh Vegetables.
Claims use since Feb. 1, 1927.

Ser. No. 250,017. DOUGHNUT MACHINE CORPORATION, New York, N. Y. Filed June 4, 1927.



No exclusive right is claimed to the use of the words "Donut Flour" or to the representation of a doughnut except as part of the trade-mark shown.
For Self-Rising Prepared Flour Containing Wheat Flour.
Claims use since May 4, 1921

Ser. No. 251,110. BASHAW ABBY CO., San Francisco, Calif. Filed June 25, 1927.

TIP TOP

For Manchurian Walnuts in the Shell and Shelled, California Walnuts in the Shell and Shelled, California Almonds in the Shell and Shelled, Brazil Nuts in the Shell and Shelled, Chinese Peanuts in the Shell and Shelled, California Black Walnuts in the Shell and Shelled Egg Yolk, and Egg Albumen.
Claims use since May 1, 1927.

Ser. No. 253,607. RED FOX ORCHARDS, Orange, Calif. Filed Aug. 17, 1927.

Jim Dandy

For Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.
Claims use since Apr. 1, 1918.

Ser. No. 257,517. VITAMINS LIMITED, London, England. Filed Nov. 12, 1927.

BEMAX

For Flour Meal and Foodstuffs Made Therefrom—Namely, Bread, Biscuits, Cake, and Prepared Cereal Foods (Liquid and Solid) for Consumption by Men and Horses, Cattle, Pigs, and Poultry.
Claims use since May 28, 1927.

Ser. No. 258,545. WHITES FRUIT AGENCY, INCORPORATED, Seattle, Wash. Filed Dec. 6, 1927.

Blue Knight

For Fresh Deciduous Fruits.
Claims use since Nov. 4, 1927.

Ser. No. 258,546. WHITES FRUIT AGENCY, INCORPORATED, Seattle, Wash. Filed Dec. 6, 1927.

Red Knight

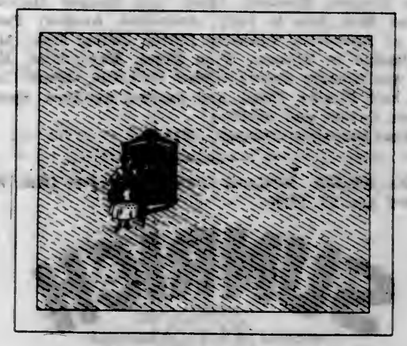
For Fresh Deciduous Fruits.
Claims use since Nov. 4, 1927.

Ser. No. 259,209. NICHIRO GYOGYO KABUSHIKI KAISHA, Tokyo, Japan. Filed Dec. 21, 1927.



No claim is made to the exclusive use of the word "Brand" apart from the mark shown in the drawing.
For Canned Beef, Pork, and Chicken.
Claims use since December, 1916.

Ser. No. 259,551. HEIT-MILLER-LAU COMPANY, Fort Wayne, Ind. Filed Dec. 31, 1927.



The horizontal lining on the drawing represents blue, and the broken oblique lining represents lavender.
For Candy.
Claims use since May 20, 1921.

Ser. No. 260,263. EMERY & KAVANAGH CO., Los Angeles, Calif. Filed Jan. 18, 1928.

EKCO "THE BRAND THAT REPEATS"

For Fresh Vegetables—Namely, Lettuce, Tomatoes, Cauliflower, and Sweet Potatoes; Fresh Melons—Namely, Cantaloupes.
Claims use since Sept. 1, 1926.

Ser. No. 261,384. POULTRY PRODUCERS OF CENTRAL CALIFORNIA, San Francisco, Calif. Filed Feb. 8, 1928.

Vitafalfa

For Poultry and Stock Feed.
Claims use since Nov. 4, 1927.

Ser. No. 263,186. ODUVALD L. D. UGHETTA, Somerville, N. J. Filed Mar. 14, 1928.

BLACK & WHITE

For Eggs.
Claims use since Oct. 1, 1927.

Ser. No. 263,823. HELLER BROTHERS IMPORTING CO., INC., doing business as Vita Fish Preserving Works, New York, N. Y. Filed Mar. 27, 1928.

VITA

For Pickled, Bismark, Dried, and Smoked Herring; Smoked Eels, Eels in Jelly, Anchovies, Anchovy Paste, Filet of Anchovies, Sardellen Butter, Jellied Fish; Mussels Packed in Vinegar, Wine Sauce, Mayonnaise, Mustard, and Tomato Sauce; Mussel Cocktails, Oyster Cocktails, and Pickled, Dried, and Smoked Sardines, Sprats, Codfish, Caviar, and Shrimps.
Claims use since January, 1914.

Ser. No. 265,303. SUNRICH CANNERIES, Beaver Dam, Wis. Filed Apr. 23, 1928.

SUNRICH PEAS

The word "Peas" does not form a part of the registration sought apart from the mark shown in the drawing.
For Canned Vegetables.
Claims use since Feb. 3, 1928.

Ser. No. 265,350. WEST VIRGINIA MACARONI CO., Clarksburg, W. Va. Filed Apr. 24, 1928.

LA CONTADINA

For Macaroni and Spaghetti.
Claims use since Jan. 1, 1921

Ser. No. 265,369. EL-FOOD CORPORATION, Dallas, Tex. Filed Apr. 25, 1928.

EL-FOOD

The word "Food" does not form a part of the registration sought apart from the mark shown on the drawing.
For Mayonnaise, Salad Dressing; Sandwich or Relish Spread, Being a Sweet Pickle and Pimento Relish Having Mayonnaise Dressing as a Base; and Thousand Island Dressing.
Claims use since 1920.

Ser. No. 266,043. PENOBSCOT BEEF & PROVISION CO., also doing business as Central Market Co., Inc., Bangor, Me. Filed May 7, 1928.

Sparkling Brook

For Eggs.
Claims use since Nov. 17, 1926.

Ser. No. 266,291. SABATO YAMATE, doing business as Yamate Bros., San Francisco, Calif. Filed May 11, 1928.

KABAFUTO

The word "Kabafuto" is the Japanese name for the island called in Russian Sakhalin off the west coast of Japan and between Japan and Siberia.
For Canned Crab Meat.
Claims use since May, 1921.

Ser. No. 266,806. BENJAMIN F. GOODWIN, doing business as Gooby-Sticks Corporation, New York, N. Y. Filed May 22, 1928.

GOOBY-STICKS

No claim is made to the word "Sticks" apart from the mark shown in the drawing.
For Wafer Rolls Filled with Peanut Butter.
Claims use since Nov. 16, 1927.

Ser. No. 266,997. THE LACTROPON LAB. INC., Hagerstown, Md. Filed May 25, 1928.



The word "Lactropon" is colored red.
For Infant's Food.
Claims use since May 14, 1928.

Ser. No. 267,146. RUDY-PATRICK SEED COMPANY, Kansas City, Mo. Filed May 28, 1928.

Every Day

For Poultry Feeds and Stock Feeds.
Claims use since 1912.

Ser. No. 267,380. THE MOXIE COMPANY, Boston, Mass. Filed June 2, 1928.

MOXIE

For Ice Cream.
Claims use since May 21, 1928.

Ser. No. 267,415. THE GREAT WESTERN SUGAR COMPANY, Denver, Colo. Filed June 4, 1928.

SILVER CRYSTAL

No claim is made to the word "Crystal" apart from the mark as shown.
For Sugar.
Claims use since Apr. 25, 1928.

Ser. No. 267,488. THE DUNLOP MILLING CO., Clarksville, Tenn. Filed June 5, 1928.



For Plain and Self-Rising Flour.
Claims use since Jan. 20, 1914.

Ser. No. 267,490. HERSHEY CHOCOLATE CORPORATION, Hershey, Pa. Filed June 5, 1928.

Sprigs

For Topping for Ice Cream, Cakes, Pastry, Confections, and Other Foods.
Claims use since about May 1, 1928.

Ser. No. 267,590. KRAMER & BARCUS, Leesburg, Fla. Filed June 6, 1928.



For Fresh Watermelons.
Claims use since May 5, 1927.

Ser. No. 267,604. LEROY G. REINSHAGEN, doing business as Roy's Distributing Company, Cincinnati, Ohio. Filed June 6, 1928.

Roy's

For Malt Syrup.
Claims use since Apr. 1, 1928.

Ser. No. 267,636. DEMING & GOULD CO., Chicago, Ill., and South Bellingham, Wash. Filed June 7, 1928.

Diamond-D

For Canned Salmon.
Claims use since July, 1915.

Ser. No. 268,029. CENTRAL WEST PRODUCTS COMPANY, Grand Rapids, Mich. Filed June 14, 1928.



For Malt Extract.
Claims use since Apr. 26, 1928.

Ser. No. 268,041. INTERNATIONAL MILLING COMPANY, doing business as Western Flour Mills, Minneapolis, Minn., and Davenport, Iowa. Filed June 14, 1928.



For Wheat Flour.
Claims use since January, 1917.

Ser. No. 268,179. SWIFT AND COMPANY, Chicago, Ill. Filed June 16, 1928.

ECONOMIX

For Gelatin.
Claims use since May 4, 1928.

Ser. No. 268,180. SWIFT AND COMPANY, Chicago, Ill. Filed June 16, 1928.

FREZRITE

For Gelatin.
Claims use since May 9, 1928.

Ser. No. 268,181. SWIFT AND COMPANY, Chicago, Ill. Filed June 16, 1928.

PROTECTOR

For Gelatin.
Claims use since May 16, 1928.

Ser. No. 268,182. SWIFT AND COMPANY, Chicago, Ill. Filed June 16, 1928.

VELVATEX

For Gelatin.
Claims use since May 21, 1928.

Ser. No. 268,183. SWIFT AND COMPANY, Chicago, Ill. Filed June 16, 1928.

STABILO

For Gelatin.
Claims use since May 16, 1928.

Ser. No. 268,184. SWIFT AND COMPANY, Chicago, Ill. Filed June 16, 1928.

CREMTEX

For Gelatin.
Claims use since May 7, 1928.

Ser. No. 268,185. SWIFT AND COMPANY, Chicago, Ill. Filed June 16, 1928.

MELLOTEX

For Gelatin.
Claims use since May. 3, 1928.

Ser. No. 268,186. SWIFT AND COMPANY, Chicago, Ill. Filed June 16, 1928.

TEXTURA

For Gelatin.
Claims use since May 18, 1928.

Ser. No. 268,187. SWIFT AND COMPANY, Chicago, Ill. Filed June 16, 1928.

SUPERLA

For Gelatin.
Claims use since May 17, 1928.

Ser. No. 268,209. PATRICK CAIRNS, doing business as Wyoming Malt and Hops Supply Co., Philadelphia, Pa. Filed June 18, 1928.

440

For Barley-Malt Syrup.
Claims use since Apr. 1, 1928.

Ser. No. 268,242. OLD HOME CREAMERIES, INCORPORATED, Minneapolis, Minn. Filed June 18, 1928.

Old Home

For Creamed Cottage Cheese.
Claims use since on or about July 1, 1925.

Ser. No. 268,252. SWIFT AND COMPANY, Chicago, Ill. Filed June 18, 1928.

CREMELAC

For Gelatin.
Claims use since June 6, 1928.

Ser. No. 268,253. SWIFT AND COMPANY, Chicago, Ill. Filed June 18, 1928.

VELVALAC

For Gelatin.
Claims use since June 8, 1928.

Ser. No. 268,254. SWIFT AND COMPANY, Chicago, Ill. Filed June 18, 1928.

LACTEX

For Gelatin.
Claims use since June 7, 1928.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 265,423. GEORGE R. BURROWS, INC., New York, N. Y. Filed Apr. 26, 1928.



No claim is made herein to the word "Tarpaulins" nor to the words "For All Round Protection" appearing on the drawing apart from the mark as shown.

For Tarpaulins, Particularly Tarpaulins Suitable for Use as Coverings for All Manner of Boats, Trucks, or Merchandise.

Claims use since Jan. 4, 1928.

Ser. No. 267,763. FULTON BAG & COTTON MILLS, Atlanta, Ga. Filed June 9, 1928.

Selfcast

For Tents, Tarpaulins, and Waterproofed Fabrics.
Claims use since Feb. 15, 1928.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JULY 31, 1928.

244,808. CANNED CORN. WARRENSBURG CANNING CO., Warrensburg, Ill.
Filed April 2, 1927. Serial No. 246,865. PUBLISHED MAY 31, 1927. Class 46.

244,809. PHARMACEUTICAL PREPARATIONS FOR USE IN THE TREATMENT OF ARTERIOSCLEROSIS, GOUT, RHEUMATISM, DIATHESIS, NEURALGIA, NEURASTHENIA, ISCHIAS, GRAVEL, DISEASES OF THE VEINS, OF THE CIRCULATION OF THE BLOOD, AND OF THE URINE, DISEASES OF WEAKNESS OF SENILE DEGENERATION, AND DISEASES OF NERVES. DR. RICHARD HOFFBAUER, Berlin, Germany.
Filed March 28, 1927. Serial No. 246,478. PUBLISHED SEPTEMBER 20, 1927. Class 6.

244,810. FRATERNITY BADGES, LAPEL BUTTONS; SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS, ALL OF PRECIOUS METAL. SIGMA KAPPA SORORITY, Leavenworth, Kans.
Filed March 21, 1927. Serial No. 246,127. PUBLISHED MAY 22, 1928. Class 28.

244,811. FRATERNITY BADGES, LAPEL BUTTONS; SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS, ALL OF PRECIOUS METAL. THE HONOR SOCIETY OF PHI KAPPA PHI, Knoxville, Tenn.
Filed March 18, 1927. Serial No. 245,985. PUBLISHED MAY 22, 1928. Class 28.

244,812. FRATERNITY BADGES, LAPEL BUTTONS; SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS. PI BETA PHI FRATERNITY, West Hartford, Conn.
Filed February 28, 1927. Serial No. 245,028. PUBLISHED MAY 22, 1928. Class 28.

244,813. CANNED FRUITS AND FRUIT PRESERVES; CANNED VEGETABLES, CANNED FISH AND SHELLFISH; CANNED MEATS—NAMELY, POTTED MEAT, VIENNA SAUSAGE, LUNCH TONGUE, COOKED BRAINS, TRIPE, CORNED BEEF, AND VEAL LOAF; CANNED SOUPS, VEGETABLE AND PICKLE RELISHES, SPICES, SALAD DRESSING, VINEGAR, CONDENSED MILK, COFFEE, TEA, CITRON PEEL, GRAPEFRUIT PEEL, LEMON PEEL, ORANGE PEEL, COCOANUT, PEANUT BUTTER, SUGAR; WHEAT, PANCAKE, AND BUCKWHEAT FLOUR; AND BREAKFAST CEREALS. J. T. FARGASON GROCER CO., Memphis, Tenn.
Filed February 10, 1927. Serial No. 244,144. PUBLISHED MAY 22, 1928. Class 46.

244,814. DEODORANT. PLOUGH CHEMICAL COMPANY, doing business as Fair-Plex Company, Memphis, Tenn.
Filed December 2, 1926. Serial No. 240,876. PUBLISHED APRIL 12, 1927. Class 6.

244,815. CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, FLAVORING EXTRACTS FOR FOOD PURPOSES, BARLEY, RICE, DRIED LENTILS, AND DRIED PEAS. I. DICKMAN & SONS, Brooklyn, N. Y.
Filed October 18, 1926. Serial No. 238,777. PUBLISHED MAY 22, 1928. Class 46.

244,816. COFFEE COMPOUND. C. M. WATSON, Wheeling, W. Va.
Filed September 21, 1926. Serial No. 237,523. PUBLISHED JANUARY 18, 1927. Class 46.

244,817. METAL PIPE FITTINGS, VALVES, COCKS, RELIEF VALVES, REGULATING VALVES, AND CONTROL VALVES. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio.
Filed September 18, 1926. Serial No. 237,405. PUBLISHED MAY 22, 1928. Class 13.

244,818. FRATERNAL JEWELRY COMPRISING FINGER RINGS, PINS, BADGES, AND BELT BUCKLES, ALL MADE OF OR PLATED WITH PRECIOUS METAL. OMICRON PI SIGMA FRATERNITY, Indianapolis, Ind.
Filed August 23, 1926. Serial No. 236,334. PUBLISHED MAY 22, 1928. Class 28.

244,819. PAINT REMOVER AND READY-MIXED PAINTS. NON-PAREL PAINT CO., Akron, Ohio.
Filed July 16, 1926. Serial No. 234,627. PUBLISHED MAY 22, 1928. Class 16.

244,820. HONEY AND HAY. CHARLES B. JUSTICE, San Diego and El Centro, Calif.
Filed March 8, 1926. Serial No. 228,318. PUBLISHED MAY 22, 1928. Class 46.

244,821. ELASTIC FABRICS. GEORGE C. MOORE COMPANY, Westerly, R. I.
Filed December 18, 1925. Serial No. 224,878. PUBLISHED MAY 22, 1928. Class 42.

244,822. ELECTRIC WATER HEATER. CURTIS S. NEWCOMB, doing business as Pacific Electrical Products Co., Tacoma, Wash.
Filed December 14, 1925. Serial No. 224,670. PUBLISHED MAY 22, 1928. Class 21.

244,823. PECANS IN THEIR NATURAL STATE, EITHER SHELLED OR UNSHELLED. SOUTHERN PECAN CO. INC., New Orleans, La.
Filed December 1, 1925. Serial No. 224,160. PUBLISHED MAY 1, 1928. Class 46.

244,824. RADIO RECEIVING SETS. A. H. GREBE & CO., INC., Richmond Hill, N. Y.
Filed October 28, 1925. Serial No. 222,454. PUBLISHED APRIL 6, 1926. Class 21.

244,825. WOVEN-WIRE CLOTH OF STEEL, IRON, ETC. WICKWIRE SPENCER STEEL COMPANY, New York, N. Y.
Filed October 6, 1925. Serial No. 221,343. PUBLISHED MAY 22, 1928. Class 13.

244,826. GASOLINE, LUBRICANTS, AND FUEL OILS, LOUGHBOROUGH OIL CO., (INC.), Washington, D. C.
Filed May 15, 1925. Serial No. 214,372. PUBLISHED MARCH 1, 1927. Class 15.

244,827. RADIO RECEIVING SETS ADAPTED FOR INSTALLATION IN OR FOR COMBINATION OR ASSOCIATION WITH PIANOS, PIANO PLAYERS, AND PLAYER PIANOS; RADIO RECEIVING SETS MOUNTED, INSTALLED, OR CONTAINED IN CASES WITH PIANOS; RADIO RECEIVING SETS WHEREIN PARTS OF PIANOS ARE USED AS PARTS OF RADIO RECEIVING SETS, RADIO RECEIVING SETS HAVING AS CABINETS OR ENCLOSURES THEREFOR PARTS OF PIANOS, AND RADIO RECEIVING SETS UTILIZING ELECTRIC ENERGY SUPPLIED TO PIANOS OR ELECTRICAL APPARATUS CONTAINED IN PIANOS. PREMIER GRAND PIANO CORPORATION, New York, N. Y.
Filed March 12, 1925. Serial No. 210,924. PUBLISHED MAY 22, 1928. Class 21.

244,828. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS, ETC. B. A. RAILTON CO., Chicago, Ill.
Filed October 12, 1923. Serial No. 186,928. PUBLISHED FEBRUARY 8, 1927. Class 46.

244,829. MOTOR-LUBRICATING OILS. TEXAS PACIFIC COAL AND OIL COMPANY, Fort Worth, Tex.
Filed January 31, 1928. Serial No. 260,967. PUBLISHED MAY 22, 1928. Class 15.

244,830. PLAYER PIANOS AND PLAYER ACTIONS FOR PLAYER PIANOS AND WIND MUSICAL INSTRUMENTS. PRATT READ PLAYER ACTION COMPANY, Deep River, Conn.
Filed January 30, 1928. Serial No. 260,910. PUBLISHED MAY 15, 1928. Class 36.

244,831. PAPER MERCHANDISE BAGS AND ENVELOPES. JOHN THOMLINSON, LIMITED, Partick, Glasgow, Scotland.
Filed January 21, 1928. Serial No. 260,474. PUBLISHED MAY 22, 1928. Class 2.

244,832. PERFORATED METAL IN SHEET FORM. EDWARD C. BOWERS and CHARLES L. FELDMAN, Receivers for Wickwire Spencer Steel Company, New York, N. Y.
Filed January 16, 1928. Serial No. 260,204. PUBLISHED MAY 15, 1928. Class 14.

244,833. LUBRICATING OILS AND GREASES. MORELAND BROS. CO., Adrian, Mich.
Filed January 11, 1928. Serial No. 259,965. PUBLISHED MAY 22, 1928. Class 15.

244,834. ELECTRIC FANS, ELECTRIC LIQUID AND PLASTIC FOOD MIXERS, ELECTRIC SPACE HEATERS, ELECTRIC VENTILATING FANS, ELECTRIC CIGAR LIGHTERS, HAND-SIZE ELECTRIC VACUUM CLEANERS OTHERWISE KNOWN AS ELECTRIC WHISK BROOMS, ELECTRIC JUICE EXTRACTORS, ELECTRIC VACUUM CLEANERS, AND ELECTRIC BEVERAGE MIXERS. THE A. C. GILBERT COMPANY, New Haven, Conn.
Filed December 22, 1927. Serial No. 259,243. PUBLISHED MAY 22, 1928. Class 21.

244,835. ELECTRIC SPACE HEATERS, ELECTRIC VENTILATING FANS, ELECTRIC CIGAR LIGHTERS, HAND-SIZE ELECTRIC VACUUM CLEANERS OTHERWISE KNOWN AS ELECTRIC WHISK BROOMS, ELECTRIC JUICE EXTRACTORS, AND ELECTRIC VACUUM CLEANERS. THE A. C. GILBERT COMPANY, New Haven, Conn.
Filed December 22, 1927. Serial No. 259,242. PUBLISHED MAY 22, 1928. Class 21.

244,836. CERTAIN NAMED PAINT PRODUCTS. HETSON COMPANY, INC., New York, N. Y.
Filed December 20, 1927. Serial No. 259,171. PUBLISHED MAY 22, 1928. Class 16.

244,837. CHEESE. ROYAL IMPORTING CO., New York, N. Y.
Filed December 16, 1927. Serial No. 259,017. PUBLISHED FEBRUARY 14, 1928. Class 46.

244,838. WELDING RODS. FUSION WELDING CORPORATION, Chicago, Ill.
Filed December 9, 1927. Serial No. 258,684. PUBLISHED MAY 15, 1928. Class 14.

244,839. CERTAIN NAMED PAINT PRODUCTS. L. S. FINCH CHEMICAL CORPORATION, Los Angeles, Calif.
Filed November 19, 1927. Serial No. 257,794. PUBLISHED MAY 22, 1928. Class 16.

244,840. WATER HEATERS USING GAS AS A FUEL. ELGIN ROWLAND PARKER, doing business as Merit Manufacturing Co., Los Angeles, Calif.
Filed November 11, 1927. Serial No. 257,438. PUBLISHED MAY 22, 1928. Class 34.

244,841. PREPARATION OF CAROB IN PASTE OR POWDERED FORM USED TO PRESERVE THE MOISTURE CONTENT OF CANDY OR OTHER FOODS. BORDEN & REMINGTON CO., Fall River, Mass.
Filed October 21, 1927. Serial No. 256,394. PUBLISHED MAY 22, 1928. Class 46.

244,842. ABSORBENT COTTON, ABSORBENT GAUZE, AND SANITARY NAPKINS. SAN-NAP-PAK MFG. CO. INC., New York, N. Y.
Filed October 17, 1927. Serial No. 256,218. PUBLISHED MAY 22, 1928. Class 44.

244,843. BUTTER AND CHEESE. NEW ZEALAND DAIRY-PRODUCE CONTROL BOARD, Wellington, New Zealand.
Filed September 20, 1927. Serial No. 254,976. PUBLISHED FEBRUARY 21, 1928. Class 46.

244,844. CANDY. SEEMAN BROTHERS, INC., New York, N. Y.
Filed September 13, 1927. Serial No. 254,692. PUBLISHED NOVEMBER 1, 1927. Class 46.

244,845. MEASURING AND SCIENTIFIC APPARATUS—NAMELY, CURRENT METERS, VOLTMETERS, ALCOHOL-MEASURING APPARATUS, CONDENSER WATER METERS, FLUE-GAS TESTERS, WATER METERS, DEPTH INDICATORS, PHYSICAL-DEMONSTRATION APPARATUS AND INSTRUMENTS, PICTURE-PROJECTION APPARATUS, TEMPERING BATHS, AND HEAT CONTROLLERS (THERMOSTATS). SIEMENS-SCHUCKERTWERKE GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, Berlin-Siemensstadt, Germany, assignor to Siemens-Schuckertwerke, Aktiengesellschaft, Berlin-Siemensstadt, Germany, a Corporation of Germany.
Filed August 25, 1927. Serial No. 253,962. PUBLISHED MAY 22, 1928. Class 26.

244,846. MEASURING AND SCIENTIFIC APPARATUS—NAMELY, CURRENT METERS, VOLTMETERS, ALCOHOL-MEASURING APPARATUS, CONDENSER WATER METERS, FUEL-GAS TESTERS, WATER METERS, DEPTH INDICATORS, PHYSICAL-DEMONSTRATION APPARATUS AND INSTRUMENTS, PICTURE-PROJECTION APPARATUS, TEMPERING BATHS, AND HEAT CONTROLLERS (THERMOSTATS). SIEMENS & HALSKE AKTIENGESELLSCHAFT, Berlin-Siemensstadt, Germany.
Filed August 25, 1927. Serial No. 253,959. PUBLISHED MAY 22, 1928. Class 26.

244,847. FINGER RINGS. HENRY RUPEISEN, INC., Newark, N. J.
Filed August 2, 1927. Serial No. 252,914. PUBLISHED MAY 22, 1928. Class 28.

244,848. COTTON PIECE GOODS, LINEN AND HEMP PIECE GOODS, SILK PIECE GOODS, AND WOOLEN PIECE GOODS. SAFETY GLASS AND XETAL PRODUCTS, LIMITED, Stapleford, England.
Filed June 2, 1927. Serial No. 249,926. PUBLISHED MAY 22, 1928. Class 42.

244,849. ELECTRIC DISHWASHERS. FRIEDLEY-VOSHARDT CO., Chicago, Ill.
Filed May 16, 1927. Serial No. 249,055. PUBLISHED MAY 22, 1928. Class 21.

244,850. ELECTROTHERAPEUTIC PADS AND BELTS. JULIUS WIEDEN, doing business as J. Wieden, Los Angeles, Calif.
Filed May 2, 1927. Serial No. 248,337. PUBLISHED JULY 19, 1927. Class 44.

244,851. SILK PIECE GOODS. EMPIRE SILK COMPANY, New York, N. Y.
Filed April 14, 1928. Serial No. 264,813. PUBLISHED MAY 22, 1928. Class 42.

244,852. PORCELAIN AND CHINA WARE OF ALL KINDS. THE ROSENTHAL CHINA CORPORATION, New York, N. Y.
Filed April 11, 1928. Serial No. 264,699. PUBLISHED MAY 22, 1928. Class 30.

244,853. FABRICS IN THE PIECE OF SILK, ARTIFICIAL SILK, AND SILK OR ARTIFICIAL SILK MIXTURES. FRANK & COHEN SILK CORP., New York, N. Y.
Filed April 11, 1928. Serial No. 264,677. PUBLISHED MAY 22, 1928. Class 42.

244,854. PIECE GOODS OF COTTON, RAYON, AND ALPACA AND COMBINATIONS OF THE SAME. ROBINSON & GOLLUBER, New York, N. Y.
Filed April 11, 1928. Serial No. 264,696. PUBLISHED MAY 22, 1928. Class 42.

244,855. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed April 9, 1928. Serial No. 264,575. PUBLISHED MAY 22, 1928. Class 42.

244,856. MATCHES. SERVICE GROCER COMPANY, INC., Detroit, Mich.
Filed April 5, 1928. Serial No. 264,387. PUBLISHED MAY 22, 1928. Class 9.

244,857. PIECE GOODS MADE OF SILK, COTTON, AND WOOL. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed April 4, 1928. Serial No. 264,301. PUBLISHED MAY 22, 1928. Class 42.

244,858. EMERGENCY GASOLINE CONTAINERS. THE NON-EXPLOSIVE RECEPTACLE CO., Baltimore, Md.
Filed April 3, 1928. Serial No. 264,252. PUBLISHED MAY 22, 1928. Class 2.

244,859. WASHBOARDS. FREDERIC MARTIN, Sr., doing business as Columbus Washboard Co., Columbus, Ohio.
Filed April 3, 1928. Serial No. 264,244. PUBLISHED MAY 22, 1928. Class 24.

244,860. READY-MIXED PAINTS. EVERSEAL MANUFACTURING CO. INC., New York, N. Y.
Filed April 4, 1928. Serial No. 264,292. PUBLISHED MAY 22, 1928. Class 16.

244,861. INHALERS. GEORGE W. MCDONALD, Colorado Springs, Colo.
Filed April 3, 1928. Serial No. 264,245. PUBLISHED MAY 22, 1928. Class 44.

244,862. MEDICINE FOR THE TREATMENT OF INDIGESTION, CONSTIPATION, NERVOUSNESS, SICK HEADACHE, FOUL STOMACH, HEARTBURN, TORPID LIVER, SLUGGISH BOWELS, AND ALL ACHES AND PAINS CAUSED BY BAD DIGESTION. MCCLENDON MEDICINE CO., INC., Roanoke, Ala.
Filed March 29, 1928. Serial No. 263,961. PUBLILSHED MAY 22, 1928. Class 6.

244,863. TOOL STEELS IN BARS, BILLETS, AND SHAPES. THE CARPENTER STEEL COMPANY, Reading, Pa.
Filed March 24, 1928. Serial No. 263,686. PUBLISHED MAY 15, 1928. Class 14.

244,864. NONPOISONOUS BLOOD-PURIFYING HERBS IN TEA TABLETS, POWDER, AND OIL FORM. JOHN J. DE COCK, East Rutherford, N. J.
Filed March 28, 1928. Serial No. 263,865. PUBLISHED MAY 22, 1928. Class 6.

244,865. PUMPS AND AGITATING, THICKENING, CLASSIFYING, AND FLOTATION APPARATUS FOR THE RECOVERY OF SOLIDS FROM SOLUTIONS SUCH AS COAL, ORE DUST, ETC., AND PARTS THEREOF. HYDROTATOR COMPANY, Hazleton, Pa.
Filed March 28, 1928. Serial No. 263,873. PUBLISHED MAY 22, 1928. Class 23.

244,866. FRESH CITRUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT. SAN FERNANDO HEIGHTS ORANGE ASSOCIATION, San Fernando, Calif.
Filed March 28, 1928. Serial No. 263,896. PUBLISHED MAY 22, 1928. Class 46.

244,867. RAT AND MICE EXTERMINATOR. KILZEM PRODUCTS COMPANY, Dallas, Tex.
Filed March 29, 1928. Serial No. 263,952. PUBLISHED MAY 15, 1928. Class 6.

244,868. COMPOUNDS FOR THE TREATMENT OF RHEUMATISM, LUMBAGO, AND GOUT. GEORGE F. BRAUN, doing business as Druggist Products Co., Philadelphia, Pa.
Filed March 31, 1928. Serial No. 264,071. PUBLISHED MAY 22, 1928. Class 6.

244,869. PERFUMES AND NATURAL AND SYNTHETIC OILS SUITABLE FOR PERFUMERY PURPOSES. HEINE & CO., New York, N. Y.
Filed March 31, 1928. Serial No. 264,103. PUBLISHED MAY 22, 1928. Class 6.

244,870. NATURAL AND SYNTHETIC OILS SUITABLE FOR PERFUMERY PURPOSES. HEINE & CO., New York, N. Y.
Filed March 31, 1928. Serial No. 264,102. PUBLISHED MAY 22, 1928. Class 6.

244,871. ALDEHYDES, ALCOHOL, AND SYNTHETIC OILS. FELTON CHEMICAL COMPANY, INC., Brooklyn, N. Y.
Filed March 31, 1928. Serial No. 264,092. PUBLISHED MAY 22, 1928. Class 6.

244,872. NATURAL AND SYNTHETIC OILS SUITABLE FOR PERFUMERY PURPOSES. HEINE & CO., New York, N. Y.
Filed March 31, 1928. Serial No. 264,104. PUBLISHED MAY 22, 1928. Class 6.

244,873. PERFUMES, PERFUME EXTRACTS, BATH SALTS, TALCUM POWDERS, FACE POWDER, BODY POWDER, DUSTING POWDER, SACHET POWDER, TOILET WATER, TOILET CREAMS, BULK PERFUMES, ROUGE COMPACTS, EYEBROW PENCILS, VANISHING CREAMS, CLEANSING CREAMS, SHAMPOO POWDERS, EAU DE COLOGNE, BRILLIANTINE, HAIR TONICS, LIP STICKS, ROUGE, POWDER COMPACTS; BODY, FACE, FOOT, HAND, AND HEAD LOTIONS. D'ORSAY PERFUMERIES CORPORATION, New York, N. Y.
Filed August 11, 1927. Serial No. 253,319. PUBLISHED MAY 22, 1928. Class 6.

244,874. CALCULATING MACHINES. ALBERT C. MEYER, doing business as Acme Mercantile Corporation, Can Diego, Calif.
Filed August 15, 1927. Serial No. 253,475. PUBLISHED MAY 22, 1928. Class 26.

244,875. ABSORBENTS, A MEDICINAL PREPARATION USED TO PRODUCE GENTLE PERSPIRATION, THEREBY ELIMINATING POISONOUS WASTE THROUGH THE PORES AND OTHER CHANNELS OF THE BODY. JOHN HENRY STEWART, doing business as The Stewart Laboratories, Chehalis, Wash.
Filed September 6, 1927. Serial No. 254,431. PUBLISED MAY 15, 1928. Class 6.

244,876. MACHINES. C. G. HAUBOLD AKTIENGESELLSCHAFT, Chemnitz, Germany.
Filed September 22, 1927. Serial No. 255,062. PUBLISHED MAY 22, 1928. Class 23.

244,877. CANNED FISH—NAMELY, ANCHOVY PASTE, ANCHOVIES, CAVIAR, AND ANTIPASTO. SEBMAN BROTHERS, INC., New York, N. Y.
Filed September 27, 1927. Serial No. 255,318. PUBLISHED MAY 1, 1928. Class 46.

244,878. CANDY IN THE FORM OF FUDGE. THE FREEZER CO., South Pasadena, Calif.
Filed October 15, 1927. Serial No. 256,108. PUBLISHED MAY 22, 1928. Class 46.

244,879. FRATERNITY BADGES, COAT OF ARMS, SHIELDS, LAPEL BUTTONS, FINGER RINGS, LOCKETS, FLASKS, BAR PINS, BRACELETS, BELT BUCKLES, CUFF LINKS, CHAINS, CHARMS; SCARF, LAPEL, AND BREAST PINS; COMPACTS, FAVORS, TOILET SETS, TABLEWARE, POCKETKNIVES, TIE CLASPS, ALL OF PRECIOUS METAL. SIGMA NU FRATERNITY, Indianapolis, Ind.
Filed June 24, 1927. Serial No. 251,105. PUBLISHED MAY 15, 1928. Class 28.

244,880. HONEY, ORANGE HONEY, ORANGE JAM, ORANGE JELLY, AND ORANGE MARMALADE. SOUTHWEST HONEY PRODUCERS SYNDICATE, Los Angeles, Calif.
Filed April 25, 1927. Serial No. 247,976. PUBLISHED MAY 15, 1928. Class 46.

244,881. ADHESIVE CEMENTS. PECORA PAINT COMPANY, Philadelphia, Pa.
Filed February 26, 1927. Serial No. 244,955. PUBLISHED MAY 15, 1928. Class 5.

244,882. BREAD. TEXAS BREAD COMPANY, Houston, Tex.
Filed February 23, 1927. Serial No. 244,800. PUBLISHED MAY 15, 1928. Class 46.

244,883. PERFUMES. TOKALON CHEMICAL CORPORATION, New York, N. Y.
Filed August 14, 1926. Serial No. 235,981. PUBLISHED MAY 15, 1928. Class 6.

244,884. PERFUMES. TOKALON CHEMICAL CORPORATION, New York, N. Y.
Filed August 14, 1926. Serial No. 235,980. PUBLISHED MAY 15, 1928. Class 6.

244,885. MOUTH WASH AND THROAT GARGLE. HOWARD JOHN WILLCOTT, Leavenworth, Kans.
Filed January 18, 1926. Serial No. 226,087. PUBLISHED MAY 15, 1928. Class 6.

244,886. COOKIES. THE MARTIN BAKING COMPANY, Cleveland, Ohio.
Filed March 26, 1925. Serial No. 211,690. PUBLISHED MAY 8, 1928. Class 46.

244,887. GOLF BALLS, GOLF CLUBS, GOLF TEES, AND GOLF BAGS. THE BURKE GOLF COMPANY, Newark, Ohio.
Filed January 30, 1928. Serial No. 260,871. PUBLISHED MAY 8, 1928. Class 22.

244,888. HOSPITAL RUBBER SHEETING AND SANITARY RUBBER SHEETING. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed January 28, 1928. Serial No. 260,845. PUBLISHED MAY 8, 1928. Class 44.

244,889. VARNISH. PATEK BROTHERS, INC., Milwaukee, Wis.
Filed January 25, 1928. Serial No. 260,653. PUBLISHED May 15, 1928. Class 16.

244,890. MASSAGING APPLIANCE COMPRISING A SERIES OF ROLLERS MOUNTED UPON A TABLE. THE EXERSSAGER CORPORATION, St. Louis, Mo.
Filed January 21, 1928. Serial No. 260,437. PUBLISHED MAY 15, 1928. Class 44.

244,891. MALT SYRUP. PABST CORPORATION, Milwaukee, Wis.
Filed January 19, 1928. Serial No. 260,345. PUBLISHED MAY 15, 1928. Class 46.

244,892. WHEAT BREAKFAST FOOD. CREAM OF WHEAT COMPANY, Minneapolis, Minn.
Filed March 30, 1928. Serial No. 264,021. PUBLISHED MAY 15, 1928. Class 46.

244,893. PEANUT BUTTER. GEORGE H. BLOOD, JR., doing business at O. K. Peanut Butter Co., Marlboro, Mass.
Filed March 30, 1928. Serial No. 264,008. PUBLISHED MAY 15, 1928. Class 46.

244,894. CONDITION POWDERS FOR COWS AND HOGS. THE BARKER, MOORE & MEIN CO., INC., Philadelphia, Pa.
Filed March 30, 1928. Serial No. 264,006. PUBLISHED MAY 15, 1928. Class 6.

244,895. TONIC FOR TREATMENT OF PALUDISM AND INTERMITTENT FEVERS AND MALARIA. MIGUEL FERRARA VOLPE, doing business as G. Bortoni y Cia. Sucr., Laredo, Tex.
Filed March 29, 1928. Serial No. 263,997. PUBLISHED MAY 15, 1928. Class 6.

244,896. WHEAT BREAKFAST FOOD. CREAM OF WHEAT COMPANY, Minneapolis, Minn.
Filed March 29, 1928. Serial No. 263,929. PUBLISHED MAY 15, 1928. Class 46.

244,897. GOLF BALLS. ADVERTISING GOLF BALL CORPORATION, New York, N. Y.
Filed March 29, 1928. Serial No. 263,912. PUBLISHED MAY 15, 1928. Class 22.

244,898. GOLF BALLS. ADVERTISING GOLF BALL CORPORATION, New York, N. Y.
Filed March 29, 1928. Serial No. 263,911. PUBLISHED MAY 15, 1928. Class 22.

244,899. GOLF BALLS. ADVERTISING GOLF BALL CORPORATION, New York, N. Y.
Filed March 29, 1928. Serial No. 263,910. PUBLISHED MAY 15, 1928. Class 22.

244,900. NUT MARGARINE. NORTHERN COCOANUT PRODUCTS CORPORATION, Chicago, Ill.
Filed March 28, 1928. Serial No. 263,885. PUBLISHED MAY 15, 1928. Class 46.

244,901. WAFERS. HARRY G. CUBBISON, doing business as Cubbison Cracker Co., Los Angeles, Calif.
Filed March 31, 1928. Serial No. 264,082. PUBLISHED MAY 15, 1928. Class 46.

244,902. QUICK-DRYING ENAMEL AND VARNISH. THE SMITH-ALSOP PAINT AND VARNISH CO., Terre Haute, Ind.
Filed March 31, 1928. Serial No. 264,123. PUBLISHED MAY 15, 1928. Class 16.

244,903. PAINT PIGMENTS AND PAINTS. L. A. SANDERS, Jr., Station Dolok Merangir, Sumatra, Dutch East Indies.
Filed August 17, 1927. Serial No. 253,608. PUBLISHED MAY 15, 1928. Class 16.

244,904. CHEESE. EMMENTAL CHEESE CORPORATION, New York, N. Y.
Filed September 26, 1927. Serial No. 255,236. PUBLISHED MAY 15, 1928. Class 46.

244,905. CHEESE. EMMENTAL CHEESE CORPORATION, New York, N. Y.
Filed September 26, 1927. Serial No. 255,237. PUBLISHED MAY 15, 1928. Class 46.

244,906. JEWELRY FOR PERSONAL USE OR ADORNMENT CONSISTING OF FINGER RINGS, EARRINGS, BRACELETS, PENDANTS, NECKLACES, WATCH BRACELETS, BAGS, BROOCHES, BUCKLES, BAR PINS, CUFF LINKS, LORGNETTES, STUDS, SCARFPINS, HATPINS, VEST BUTTONS, AND HANDY PINS, ALL MADE OF OR PLATED WITH PRECIOUS METAL. ORESTE PENNINO, doing business as Pennino Brothers, New York, N. Y.
Filed September 30, 1927. Serial No. 255,465. PUBLISHED MAY 15, 1928. Class 28.

244,907. COLD CREAM AND VANISHING CREAM, HAND CREAM, AND SHAMPOO CREAM. CORA M. GILLMAN, Youngstown, Ohio.
Filed October 3, 1927. Serial No. 255,558. PUBLISHED MAY 15, 1928. Class 6.

244,908. PHARMACEUTICAL PREPARATION—NAMELY, A STRAPPING CREAM USED IN TREATMENT OF THE ANKLES. JOHN H. HARRIS, Lockport, N. Y.
Filed November 2, 1927. Serial No. 256,932. PUBLISHED MAY 15, 1928. Class 6.

244,909. PREPARATION FOR RESTORING EYESIGHT. NICK CURTIS, New York, N. Y.
Filed October 31, 1927. Serial No. 256,813. PUBLISHED MAY 15, 1928. Class 6.

244,910. DEVICES DESIGNED TO BE APPLIED TO AUTOMOBILES AND EMPLOYED FOR INDICATING WHEN THE AUTOMOBILE SHOULD BE OILED, GREASED, AND INSPECTED. MCCLELLAN AND SEWARD, Hartford, Conn.
Filed November 2, 1927. Serial No. 256,960. PUBLISHED MAY 22, 1928. Class 26.

244,911. PAINT ENAMELS, VARNISHES, AND READY-MIXED PAINTS. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa.
Filed November 8, 1927. Serial No. 257,251. PUBLISHED MAY 8, 1928. Class 16.

244,912. WATCHES AND WATCHCASES. MORRIS LUGERMAN, New York, N. Y.
Filed November 11, 1927. Serial No. 257,424. PUBLISHED MAY 15, 1928. Class 27.

244,913. CANDY. MEXICAN PECAN CANDY COMPANY, Dallas, Tex.
Filed November 11, 1927. Serial No. 257,429. PUBLISHED MAY 22, 1928. Class 46.

244,914. WHIRLING SWINGS. THE MERRY-WHIRL SWING MANUFACTURING CO., Chicago, Ill.
Filed January 19, 1928. Serial No. 260,340. PUBLISHED MAY 15, 1928. Class 22.

244,915. EFFERVESCENT SALTS MAGNESIUM CITRATE, ELIXIR SODIUM IODIDE, ETC. SCHIEFFELIN & CO., New York, N. Y.
Filed January 18, 1928. Serial No. 260,295. PUBLISHED MAY 15, 1928. Class 6.

244,916. TABLE SYRUP. GRIGGS, COOPER & COMPANY, St. Paul, Minn.
Filed January 14, 1928. Serial No. 260,118. PUBLISHED MAY 15, 1928. Class 46.

244,917. CHILDREN'S TOYS, GAMES, AND SPORTING GOODS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed January 11, 1928. Serial No. 259,966. PUBLISHED MAY 15, 1928. Class 22.

244,918. HONEY. I. ROKEACH & SONS, INC., Brooklyn, N. Y.
Filed January 31, 1928. Serial No. 260,959. PUBLISHED MAY 15, 1928. Class 46.

244,919. SWEET FLAVORED CASTOR OIL. C. S. LITTELL & CO., INC., New York, N. Y.
Filed April 4, 1928. Serial No. 264,313. PUBLISHED MAY 22, 1928. Class 6.

244,920. LAXATIVE COUGH SYRUP. C. S. LITTELL & CO., INC., New York, N. Y.
Filed April 4, 1928. Serial No. 264,312. PUBLISHED MAY 22, 1928. Class 6.

244,921. LIQUEFIED NATURAL GAS. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed April 3, 1928. Serial No. 264,256. PUBLISHED MAY 22, 1928. Class 6.

244,922. SAFETY RAZORS AND SAFETY-RAZOR BLADES. TREET SAFETY RAZOR CORPORATION, Newark, N. J.
Filed April 10, 1928. Serial No. 264,662. PUBLISHED MAY 22, 1928. Class 23.

244,923. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Cambridge, Mass.
Filed April 2, 1928. Serial No. 264,182. PUBLISHED MAY 22, 1928. Class 46.

244,924. CIGARS. A. GUTIERREZ, New York, N. Y.
Filed April 2, 1928. Serial No. 264,164. PUBLISHED MAY 22, 1928. Class 17.

244,925. CIGARS. EDUARDO SUAREZ MURIAS Y COMPAÑIA, Habana, Cuba.
Filed March 19, 1928. Serial No. 263,416. PUBLISHED MAY 22, 1928. Class 17.

244,926. ELECTRIC-LIGHT INSTALLATION UNIT AND OUTFIT. CURTIS LIGHTING, INC., Chicago, Ill.
Filed March 19, 1928. Serial No. 263,378. PUBLISHED MAY 22, 1928. Class 21.

244,927. PHONOGRAPH NEEDLES. OKEH PHONOGRAPH CORPORATION, New York, N. Y.
Filed March 15, 1928. Serial No. 263,226. PUBLISHED MAY 22, 1928. Class 36.

244,928. PEARLS, NECKLACES, BRACELETS, EARRINGS, FINGER RINGS, BROOCHES, BAR PINS, AND ORNAMENTAL HATPINS, AND PINS FOR DRESS ORNAMENTS, ORNAMENTAL PINS AND BUCKLES FOR DECORATING HATS, ORNAMENTAL SHOE BUCKLES, AND HAIR ORNAMENTS, MADE WHOLLY OR IN PART OF OR PLATED WITH PRECIOUS METAL. COHN & ROSENBERGER, INC., New York, N. Y.
Filed March 15, 1928. Serial No. 263,199. PUBLISHED MAY 22, 1928. Class 28.

244,929. WATCHES, WATCH MOVEMENTS, AND WATCHCASES. DINHOFER BROS. INC., New York, N. Y.
Filed March 14, 1928. Serial No. 263,117. PUBLISHED MAY 22, 1928. Class 27.

244,930. FINGER RINGS, BAR PINS, BRACELETS, SCARFPINS, SAUTOIRS, WATCH CHAINS; GEM SETTINGS FOR RINGS, PINS, AND BROOCHES; MESH BAGS, VANITY CASES, BARRETTES, BROOCHES, BELT AND WRIST STRAP BUCKLES, EARRINGS, WATCH FOBS, WATCH-CHAIN ORNAMENTS, NECKLACES, NECK CHAINS, NECKLACE CLASPS, MEDALS, CUFF BUTTONS, SHOE BUCKLES, LOCKETS, TIE CLASPS, WATCH-CHAIN SNAPS, AND VEIL PINS, ALL OF THE ABOVE ARTICLES BEING MADE OF OR ELSE COATED WITH PRECIOUS METAL. DINHOFER BROS. INC., New York, N. Y.
Filed March 14, 1928. Serial No. 263,116. PUBLISHED MAY 22, 1928. Class 28.

244,931. GASOLINE. WARNER-QUINLAN COMPANY, New York, N. Y.
Filed March 10, 1928. Serial No. 262,945. PUBLISHED MAY 22, 1928. Class 15.

244,932. PADS AND SHIELDS FOR CORNS, CALLOUSES, BUNIONS, AND OTHER FOOT TROUBLES. THE SCHOLL MFG. CO. INC., Chicago, Ill.
Filed March 10, 1928. Serial No. 262,939. PUBLISHED MAY 22, 1928. Class 44.

244,933. ELECTRICAL ILLUMINATING OUTFITS CONSISTING OF REFLECTORS, STANDS, AND DIFFUSERS. EASTMAN KODAK COMPANY, Rochester, N. Y.
Filed March 10, 1928. Serial No. 262,904. PUBLISHED MAY 22, 1928. Class 21.

244,934. METAL ALLOY. BUFFALO BRONZE DIE CAST CORPORATION, Buffalo, N. Y.
Filed March 10, 1928. Serial No. 262,894. PUBLISHED MAY 15, 1928. Class 14.

244,935. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. OSCAR HEYMAN & BROTHERS, New York, N. Y.
Filed March 9, 1928. Serial No. 262,848. PUBLISHED MAY 22, 1928. Class 28.

244,936. [WITHDRAWN.]

244,937. LUBRICATING OIL. TEXAS PACIFIC COAL AND OIL COMPANY, Fort Worth, Tex.
Filed February 28, 1928. Serial No. 262,381. PUBLISHED MAY 22, 1928. Class 15.

244,938. PASTE AND READY-MIXED PAINTS AND LACQUERS. W. JULE DAY, New York, N. Y.
Filed February 28, 1928. Serial No. 262,349. PUBLISHED MAY 22, 1928. Class 16.

244,939. PAINTER'S SIZE. DOUBLE TOOTH SIZE MANUFACTURING COMPANY, Des Moines, Iowa.
Filed February 20, 1928. Serial No. 261,951. PUBLISHED MAY 22, 1928. Class 16.

244,940. PAPER KNIVES, PAD HOLDERS, LETTER OPENERS, PAPER WEIGHTS, DESK SETS, CALENDAR STANDS. J. E. MERGOTT COMPANY, Newark, N. J.
Filed February 18, 1928. Serial No. 261,900. PUBLISHED APRIL 3, 1928. Class 37.

244,941. GASOLINE. TRANSCONTINENTAL OIL COMPANY, Tulsa, Okla.
Filed February 11, 1928. Serial No. 261,594. PUBLISHED MAY 22, 1928. Class 15.

244,942. REEDS FOR CLARINETS, SAXAPHONES, AND SIMILAR MUSICAL INSTRUMENTS. ELVEN JOHN AMUNDSON, Grand Forks, N. Dak., and Chicago, Ill.
Filed February 10, 1928. Serial No. 261,474. PUBLISHED MAY 22, 1928. Class 36.

244,943. FINGER RINGS, GOLD AND PLATINUM BADGES, ORNAMENTAL PINS, AND GOLD AND PLATINUM MEDALS. WETTERLIHG, BERRY, WALLRAFF CO., INC., Newark, N. J.
Filed February 2, 1928. Serial No. 261,087. PUBLISHED MAY 22, 1928. Class 28.

244,944. PHARMACEUTICAL PREPARATION (IN THE FORM OF A TABLET) PRODUCING CLEANLINESS OF THE MUCOUS MEMBRANES. DUSHE PRODUCTS COMPANY, Brooklyn, N. Y.
Filed February 2, 1928. Serial No. 261,051. PUBLISHED MAY 22, 1928. Class 6.

244,945. SHAFT SUPPORTS, SHAFT HANGERS, BEARINGS, SHAFT COUPLINGS, COLLARS, CLUTCHES, GEARS, SHEAVES, SPROCKETS, PULLEYS, MILL MACHINERY, ELEVATING AND CONVEYING MACHINERY, POWER-TRANSMISSION MACHINERY AND PARTS THEREOF, AND MISCELLANEOUS INDUSTRIAL MACHINERY AND EQUIPMENT BUILT TO SPECIAL ORDER. DODGE MANUFACTURING CORPORATION, Mishawaka, Ind., and Oneida, N. Y.
Filed November 15, 1924. Serial No. 205,323. PUBLISHED MAY 22, 1928. Class 23.

244,946. FRESH CITRUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT. SWEETWATER FRUIT COMPANY, Bonita, Calif.
Filed July 8, 1926. Serial No. 234,324. PUBLISHED MAY 22, 1928. Class 46.

244,947. SALVE FOR HAY FEVER, PILES, CUTS, BRUISES, INSECT BITES OR STINGS, INFLAMED EYELIDS, TETTER CRACKS, CHAPPED HANDS, AND FROSTBITES. T. S. FARIS, doing business at T. S. Faris' Magic Remedy Company, Colorado Springs, Colo.
Filed July 26, 1926. Serial No. 235,133. PUBLISHED MAY 15, 1928. Class 6.

244,948. GINGER ALE AND NONALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS. HENRY WOERTS, Waukegan, Ill.
Filed January 10, 1927. Serial No. 242,645. PUBLISHED MAY 22, 1928. Class 45.

244,949. AROMATIC OILS, PHOTOGRAPHIC CHEMICALS, ETC. RHODIA CHEMICAL COMPANY, New York, N. Y.
Filed January 14, 1927. Serial No. 242,855. PUBLISHED MAY 22, 1928. Class 6.

244,950. CANNED FRUITS AND VEGETABLES. SAMUEL RUBY, San Francisco, Calif.
Filed March 9, 1927. Serial No. 245,454. PUBLISHED MAY 1, 1928. Class 46.

244,951. CENTRIFUGAL MACHINES USED FOR EXTRACTING OR DRYING. HYDRO-CENTRIFUGALS, INC., New York, N. Y.
Filed March 29, 1927. Serial No. 246,553. PUBLISHED MAY 22, 1928. Class 23.

244,952. MOTION-PICTURE FILMS. SAMUEL M. MARCUS, Los Angeles, Calif.
Filed April 4, 1927. Serial No. 246,917. PUBLISHED MAY 22, 1928. Class 26.

244,953. PHONE CABINETS, FOLDING BEDS, FOLDING CHAIRS, AND SINK CHAIRS. ALBERT P. WILLIS, Detroit, Mich.
Filed June 15, 1927. Serial No. 250,587. PUBLISHED MAY 22, 1928. Class 32.

244,954. OXYGEN MEDICINE FOR USE IN GASTRIC TROUBLES AND AS A LAXATIVE IN POWDER AND TABLET FORM. BRUNO VOSS, Brooklyn, N. Y.
Filed April 13, 1928. Serial No. 264,784. PUBLISHED MAY 22, 1928. Class 6.

244,955. RHEUMATISM MEDICINE. OLD VET REMEDY COMPANY, Wilkes-Barre, Pa.
Filed April 10, 1928. Serial No. 264,651. PUBLISHED MAY 22, 1928. Class 6.

244,956. COD-LIVER OIL. MINNEAPOLIS DRUG COMPANY, Minneapolis, Minn.
Filed April 10, 1928. Serial No. 264,649. PUBLISHED MAY 22, 1928. Class 6.

244,957. SEED-TREATING COMPOUNDS. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed April 6, 1928. Serial No. 264,429. PUBLISHED MAY 22, 1928. Class 6.

244,958. FILLING AND SEALING COMPOUNDS, FOR MATERIALS SUITABLE FOR IMPREGNATING OR SEALING ELECTRICAL APPARATUS. WILLIAM BRAND & CO., New York, N. Y.
Filed April 5, 1928. Serial No. 264,348. PUBLISHED MAY 22, 1928. Class 6.

244,959. SALVE FOR THE TREATMENT OF BLOOD POISON, CARBUNCLES, BOILS, PILES, PINK EYE, CUTS, BLISTERS, AND BRUISES. NINA VIVIAN MIDDLETON, doing business as Nina Vivian Rees, Tonawanda, N. Y.
Filed April 4, 1928. Serial No. 264,318. PUBLISHED MAY 22, 1928. Class 6.

244,960. BRAZING AND WELDING FLUX. THE IMPERIAL BRASS MANUFACTURING COMPANY, Chicago, Ill.
Filed July 16, 1927. Serial No. 252,153. PUBLISHED MAY 22, 1928. Class 6.

244,961. PERFUMES, TOILET WATERS, FACE AND BODY POWDERS, TOILET CREAM, BATH SALTS, AND TOILET LOTIONS. L. BAMBERGER & COMPANY, Newark, N. J.
Filed November 29, 1927. Serial No. 258,159. PUBLISHED MAY 22, 1928. Class 6.

244,962. MEDICINAL PREPARATION FOR ARTERIOSCLEROSIS AND ALSO USED AS A MEDICINE FOR AILMENTS OF THE STOMACH AND THE INTESTINES AND LACK OF APPETITE. SCHWEIZ. KINDERMEHL-FABRIK, Belp, Switzerland.
Filed December 19, 1927. Serial No. 259,139. PUBLISHED MAY 22, 1928. Class 6.

244,963. BICARBONATE OF SODA, CASCARA SAGRADA, AND PERFUME AND SANITARY LIQUID COURT PLASTER. ABRAHAM ROSENBERG, doing business as Apt Products Co., New York, N. Y.
Filed December 31, 1927. Serial No. 259,593. PUBLISHED MAY 22, 1928. Class 6.

244,964. PEANUT BUTTER AND BOTTLED FRUIT PRESERVES AND FRUIT JELLIES. GRIGGS, COOPER & COMPANY, St. Paul, Minn.
Filed January 14, 1928. Serial No. 260,115. PUBLISHED MAY 15, 1928. Class 46.

244,965. BELT CONVEYORS, SHAKER CONVEYORS, LOADING MACHINES, AND CAR LOADERS. MINING ENGINEERING COMPANY, LIMITED, Worcester, England.
Filed January 16, 1928. Serial No. 260,184. PUBLISHED MAY 22, 1928. Class 23.

244,966. RUBBER AND FABRIC MACHINERY BELTING. MINING ENGINEERING COMPANY, LIMITED, Worcester, England.
Filed January 16, 1928. Serial No. 260,185. PUBLISHED MAY 22, 1928. Class 35.

244,967. NONALCOHOLIC, CEREAL, MALT BEVERAGES. M. K. GOETZ BREWING COMPANY, St. Joseph, Mo.
Filed January 23, 1928. Serial No. 260,500. PUBLISHED MAY 22, 1928. Class 48.

244,968. FRESH IRISH POTATOES. CARDWELL BROKERAGE CO., Yakima, Wash.
Filed January 24, 1928. Serial No. 260,555. PUBLISHED MAY 22, 1928. Class 46.

244,969. PHARMACEUTICAL PREPARATION FOR THE RELIEF OF HEADACHE, NERVE PAINS, NEURALGIA, AND RHEUMATISM. GEO. R. NICHOLAS & CO., Melbourne, Victoria, Australia.
Filed January 25, 1928. Serial No. 260,651. PUBLISHED MAY 22, 1928. Class 6.

244,970. VAGINAL ANTISEPTIC LUBRICANT AND PROPHYLACTIC. CARL J. YEISLEY, doing business as Ultra Modern Products Company, (a common-law company), Port Clinton, Ohio.
Filed January 30, 1928. Serial No. 260,926. PUBLISHED MAY 22, 1928. Class 6.

244,971. FERTILIZER. SYNTHETIC NITROGEN PRODUCTS CORPORATION, New York, N. Y.
Filed April 2, 1928. Serial No. 264,209. PUBLISHED MAY 22, 1928. Class 10.

244,972. ICE-CREAM CONES. PREFERRED BAKING CO., Boston, Mass.
Filed April 2, 1928. Serial No. 264,197. PUBLISHED MAY 22, 1928. Class 46.

244,973. MALT SYRUP AND EXTRACT. R. PAOLI & COMPANY, doing business as Red Rock Co., Hancock, Mich.
Filed April 2, 1928. Serial No. 264,187. PUBLISHED MAY 22, 1928. Class 46.

244,974. CHOCOLATE-COVERED FROZEN FRUITS. SOUTHERN CONE MANUFACTURING COMPANY, INCORPORATED, Shreveport, La.
Filed March 29, 1928. Serial No. 263,978. PUBLISHED MAY 22, 1928. Class 46.

244,975. CHOCOLATE-COVERED FROZEN FRUITS. SOUTHERN CONE MANUFACTURING COMPANY, INCORPORATED, Shreveport, La.
Filed March 29, 1928. Serial No. 263,977 PUBLISHED MAY 22, 1928. Class 46.

244,976. FLAT CREPE SILK PIECE GOODS. HOLMAN & FRANZ, INC., New York, N. Y.
Filed March 27, 1928. Serial No. 263,825. PUBLISHED MAY 22, 1928. Class 42.

244,977. WOODEN BARRELS AND KEGS. ALLIED BARREL COMPANY, Oil City, Pa.
Filed March 27, 1928 Serial No. 263,808. PUBLISHED MAY 22, 1928. Class 2.

244,978. COATED FABRIC SIMILAR TO IMITATION LEATHER USED FOR SHELVING, TABLE, CABINET, AND ICE-BOX COVERS. TABLE ART MAT COMPANY, Brooklyn, N. Y.
Filed March 20, 1928. Serial No. 263,521. PUBLISHED MAY 22, 1928. Class 20.

244,979. SHOCK ABSORBERS FOR AUTOMOBILES. SOCIETE DES AMORTISSEURS REGLABLES POUR AUTOMOBILES, Nantes, France.
Filed March 17, 1928. Serial No 263,355. PUBLISHED MAY 22, 1928. Class 19.

244,980. SILK PIECE GOODS STEHLISILKS CORPORATION, New York, N. Y.
Filed March 15, 1928. Serial No. 263,231. PUBLISHED MAY 1, 1928. Class 42.

244,981. MOTOR ROBES, STEAMER RUGS, AND CAMEL-HAIR BLANKETS OF TEXTILE FABRIC. THE HURWITT CO. INC., New York, N. Y.
Filed March 14, 1928. Serial No 263,154. PUBLISHED MAY 22, 1928. Class 42.

244,982. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 14, 1928. Serial No. 263,143. PUBLISHED MAY 22, 1928. Class 42.

244,983. LIQUID-FUEL BURNERS. SILENT AUTOMATIC CORPORATION, Detroit, Mich.
Filed March 7, 1928 Serial No. 262,775. PUBLISHED MAY 22, 1928. Class 34.

244,984. SHOWER SHEETS. BARTMANN & BIXER INC., New York, N. Y.
Filed March 6, 1928. Serial No. 262,642. PUBLISHED MAY 22, 1928. Class 13.

244,985. VEHICLE WHEELS AND RIMS THEREFOR. MICHELIN ET CIE., Clermont-Ferrand, France.
Filed March 2, 1928. Serial No. 262,524. PUBLISHED MAY 22, 1928. Class 19.

244,986. VEHICLE WHEELS AND RIMS THEREFOR. MICHELIN ET CIE., Clermont-Ferrand, France.
Filed March 2, 1928. Serial No. 262,523. PUBLISHED MAY 22, 1928. Class 19.

244,987. MATCHES. VULCAN MATCH CO., INC., New York, N. Y.
Filed February 23, 1928. Serial No. 262,136. PUBLISHED APRIL 17, 1928. Class 9.

244,988. FLAVORING EXTRACTS FOR FOODS. VIRGINIA DARE EXTRACT COMPANY, INC., Brooklyn, N. Y.
Filed February 20, 1928. Serial No. 262,007. PUBLISHED MAY 22, 1928. Class 46.

244,989. WOOLEN CLOTH IN THE PIECE. ALLEN L. GOLDFINE, doing business as Glenerry Woolen Company, Boston, Mass.
Filed February 20, 1928. Serial No. 261,956. PUBLISHED MAY 22, 1928. Class 42.

244,990. CERTAIN NAMED CABLES. VEREINIGTE STAHLWERKE AKTIENGESELLSCHAFT, Dusseldorf, Germany.
Filed February 6, 1928. Serial No. 261,292. PUBLISHED MAY 22, 1928. Class 7.

244,991. ALIMENTARY PASTES. WESTCHESTER MACARONI CO., INC., Mount Vernon, N. Y.
Filed November 17, 1927. Serial No. 257,718. PUBLISHED MAY 15, 1928. Class 46.

244,992. OINTMENT FOR THE TREATMENT OF LEPROSY. AARON BENCHETRIT, New York, N. Y.
Filed November 19, 1927. Serial No. 257,769. PUBLISHED MAY 15, 1928. Class 44.

244,993. ELECTRICAL LIGHT AND VIBRATION MASSAGE DEVICE. ARTHUR B. WALKER, Grosse Pointe Park, Mich.
Filed November 25, 1927. Serial No. 258,053. PUBLISHED MAY 15, 1928. Class 44.

244,994. FURNITURE POLISH. THE GREAT AMERICAN TEA CO., New York, N. Y.
Filed July 21, 1927 Serial No. 252,380. PUBLISHED MAY 8, 1928. Class 16.

244,995. MALT SYRUP. GREEN RIVER MALT CO. OF MASSACHUSETTS, Boston, Mass.
Filed July 12, 1927. Serial No. 251,903. PUBLISHED MAY 15, 1928. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

244,996. (CLASS 37. PAPER AND STATIONERY.) HERSEY PAPER COMPANY, INC., Medford, Mass. Filed June 8, 1928. Serial No. 267,708.

WETPRUF

For Wrapping Paper and Box Board.
Claims use since July 1, 1925.

244,997. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIGNES-BOMBET GROCER CO. INC., Baton Rouge, La. Filed May 25, 1928. Serial No. 267,018.

WITE-LITE

For Wheat Flour.
Claims use since July 1, 1925.

244,998. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KEELEY'S CANDIES, INC., Madison, Wis. Filed May 23, 1928. Serial No. 266,862.

Keeley's

For Box Candy and Bars.
Claims use since Jan. 1, 1920.

244,999. (CLASS 27. HOROLOGICAL INSTRUMENTS.) SOUTH BEND WATCH CO., South Bend, Ind. Filed May 16, 1928. Serial No. 266,488.

South Bend

For Watches and Watchcases.
Claims use since Feb. 1, 1908.

245,000. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LODI FRUIT GROWERS ASSOCIATION, Lodi, Calif. Filed May 9, 1928. Serial No. 266,137.

ALADDIN

For Fresh Grapes.
Claims use since 1925.

245,001. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) POMONA MILLS, INC., Greensboro, N. C. Filed May 8, 1928. Serial No. 266,097.

SEDGEFIELD

For Cotton Piece Goods.
Claims use since Aug. 5, 1926.

245,002. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & COMPANY, Jersey City, N. J., and New York, N. Y. Filed May 1, 1928. Serial No. 265,717.



For Preparation for Cleaning, Brightening, and Polishing Silver and Other Metals.
Claims use since May 31, 1917.

245,003. (CLASS 37. PAPER AND STATIONERY.) NEENAH PAPER COMPANY, Neenah, Wis. Filed Apr. 30, 1928. Serial No. 265,677.

NEENAH

For Bond, Ledger, Writing, and Map Paper.
Claims use since July 1, 1915.

245,004. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. F. SCHWAHN & SONS CO., Eau Claire, Wis. Filed Dec. 29, 1927. Serial No. 259,463.

Schwahn's

For Malt Syrup, Canned Vegetables, Canned Sauerkraut.
Claims use since 1915.

245,005. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ROBERT HORWITZ, doing business as Howard Radio Co. and Hy-Test Battery Works, New York, N. Y. Filed Aug. 18, 1927. Serial No. 253,650.

Hy-Test "B" BATTERY

For Batteries.
Claims use since Apr. 1, 1927.

245,006. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CLAIR L. FARRAND, Long Island City, N. Y. Filed July 23, 1927. Serial No. 252,464.

Farrand

For Musical Instruments—Namely, Banjos, Guitars, Mandolins, and Portable Phonographs.
Claims use since June 7, 1927.

245,007. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) C. C. HARVEY COMPANY, Boston, Mass. Filed May 28, 1927. Serial No. 249,419.

WELLESLEY

For Pianos and Player Pianos.
Claims use since Feb. 23, 1927.

245,008. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BENJAMIN F. MIESSNER, South Orange, N. J. Filed May 14, 1927. Serial No. 249,014.

MIESSNER AC.

For Electron-Discharge Tubes, Three-Electrode Vacuum Tubes, Vacuum Tubes for Use in Radio Receiving Sets, Repeater Tubes, Amplifier Tubes, and Detector Tubes.
Claims use since May 9, 1927.

245,009. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE BAER & WILDE COMPANY, Attleboro, Mass. Filed May 10, 1927. Serial No. 248,742.

Slip-in-Studs

For Shirt Studs of Precious Metal or Plated with Precious Metals.
Claims use since Jan. 1, 1927.

245,010. (CLASS 15. OILS AND GREASES.) PIERCE PETROLEUM CORPORATION, Wilmington, Del., and St. Louis, Mo. Filed Sept. 17, 1926. Serial No. 237,385.

LACLEDE

For Lubricating Oils and Greases.
Claims use since Jan. 2, 1916.

245,011. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE RUDOLPH WURLITZER COMPANY, Cincinnati, Ohio. Filed Aug. 4, 1926. Serial No. 235,574.

INTERPRETIVE

For Grand and Upright Player Pianos.
Claims use since July 9, 1926.

245,012. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE MIDLAND COMPANY, South Milwaukee, Wis. Filed July 23, 1927. Serial No. 252,474.

TITE-LINE

For Rope Hitches for Holding Taut Clotheslines and Other Light Cordage.
Claims use since June 16, 1927.

245,013. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PLAYGOLF, INC., Cleveland, Ohio. Filed Feb. 8, 1928. Serial No. 261,881.

Playgolf

For Golf Practice Machines, Golf Bags, Golf Balls, Golf Tees, Golf Clubs, and Toy Golf Machines.
Claims use since Oct. 15, 1926.

245,014. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COMMERCE DRUG CO., INC., Brooklyn, N. Y. Filed May 12, 1928. Serial No. 266,301.

OFF-EZY

For Remedy for Corns.
Claims use since February, 1924.

245,015. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FINN CHEMICAL COMPANY, doing business as Finn Extract Co., Portland, Oreg. Filed May 28, 1928. Serial No. 267,116.

FINN'S

For Flavoring Extracts for Foods.
Claims use since January, 1910.

TRADE-MARK REGISTRATIONS RENEWED

31,329. INSULATED WIRES. Registered February 22, 1908. THE SAFETY INSULATED WIRE AND CABLE COMPANY. Renewed February 22, 1928, to General Cable Corporation, New York, N. Y., a Corporation of New Jersey, successor.

31,557. WHEAT FLOUR. Registered May 17, 1908. NOBLESVILLE MILLING COMPANY. Renewed May 17, 1928, to Noblesville Milling Co., Noblesville, Ind., a Corporation of Indiana, successor.

66,433. CERTAIN MALT PREPARATIONS. Registered November 26, 1907. JOHANN BAPTIST WEYERMANN, Potsdam, Germany. Renewed November 26, 1927.

69,043. METALLIC ALLOYS. Registered May 19, 1908, THE MANGANESE BRONZE AND BRASS CO. LIMITED, London, England, a Limited-Liability Company of Great Britain. Renewed May 19, 1928.

69,044. ANTIFRICTION ALLOYS. Registered May 19, 1908. THE MANGANESE BRONZE AND BRASS CO. LIMITED, London, England, a Limited-Liability Company of Great Britain. Renewed May 19, 1928.

69,067. METALLIC ALLOYS. Registered May 19, 1908. THE MANGANESE BRONZE AND BRASS CO. LIMITED, London, England, a Limited-Liability Company of Great Britain. Renewed May 19, 1928.

69,151. CERTAIN MEDICINE. Registered May 19, 1908. THE EVANS CHEMICAL COMPANY, Cincinnati, Ohio, a Corporation of Ohio. Renewed May 19, 1928.

69,271. BEER. Registered June 2, 1908. A SCHREIBER BREWING CO. Renewed June 2, 1928, to Schreiber Products Corporation, Buffalo, N. Y., a Corporation of New York, assignee by mesne assignments.

69,475. FERTILIZERS. Registered June 16, 1908. AMERICAN FERTILIZING COMPANY, Norfolk, Va., a Corporation of Virginia. Renewed June 16, 1928.

69,597. HAIRWASH. Registered June 23, 1908. FELIX TEMPEST CO., Los Angeles, Calif. Renewed June 23, 1928, to Dorothy K. Kerr, doing business as Felix Tempest Co., Brooklyn, N. Y., assignee by mesne assignments.

69,658. CERTAIN MACHINERY. Registered June 30, 1908. BARTZ, WYGANT & BROWN, INC. Renewed June 30, 1928, to The A. J. Deer Company, Inc., Hornell, N. Y., a Corporation of Delaware, assignee by mesne assignments.

69,688. NUTS. Registered June 30, 1908. ROBT. LEE HATCH. Renewed June 30, 1928, to Robert L. Hatch Corporation, New York, N. Y., a Corporation of New York, assignee.

69,713. CANNED VEGETABLES. Registered June 30, 1908. STRASBAUGH, SILVER & CO. Renewed June 30, 1928, to Wm. Silver Co. Inc., Aberdeen, Md., a Corporation of Maryland, successor.

69,715. CERTAIN BOOKS. Registered June 30, 1908. UNITED STATES CORPORATION COMPANY, New York, N. Y., a Corporation of New York. Renewed June 30, 1928.

69,756. CERTAIN VEHICLES AND PARTS THEREOF. Registered June 30, 1908. DAIMLER-MOTOREN-GESELLSCHAFT, Untertürkheim, near Stuttgart, Germany. Renewed June 30, 1928, to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany, a Corporation of Germany, by change of name.

69,776. HOES. Registered July 7, 1908. NORVELL-SHAPLEIGH HARDWARE COMPANY. Renewed July 7, 1928, to Shapleigh Hardware Company, St. Louis, Mo., a Corporation of Missouri, by change of name.

69,876. OINTMENT. Registered July 14, 1908. C. E. FULFORD LIMITED, Leeds, England, a Corporation of Great Britain and Ireland. Renewed July 14, 1928.

69,910. A MONTHLY MAGAZINE. Registered July 14, 1908. ELBERT HUBBARD. Renewed July 14, 1928, to The Roycrofters, East Aurora, N. Y., a Corporation of New York, successor.

70,031. PERFUMED SOAP. Registered July 28, 1908. C. E. FULFORD LIMITED, Leeds, England, a Corporation of Great Britain and Ireland. Renewed July 28, 1928.

70,102. LEATHER SHOES AND SLIPPERS. Registered July 28, 1908. THE H. C. GODMAN COMPANY, Columbus and Lancaster, Ohio. Renewed July 28, 1928, to The H. C. Godman Company, Columbus, Ohio, a Corporation of Ohio.

70,187. MOCCASINS. Registered August 11, 1908. SHIELDS BROTHERS, Bombay, N. Y. Renewed August 11, 1928.

70,255. ELECTRIC AND GALVANIC CARBONS. Registered August 18, 1908. C. CONRADTY, Nuremberg, Germany. Renewed August 18, 1928, to C. Conardty, Nuremberg, Germany.

70,301. VARNISHES, JAPANS, LACQUERS, ENAMELS, AND PAINTS. Registered August 18, 1908. THE CLEVELAND VARNISH COMPANY. Renewed August 18, 1928, to The Cleveland Varnish Company, Cleveland, Ohio, a Corporation of Ohio (1916), assignee.

70,321. GILDING TOOLS. Registered August 18, 1908. W. H. COE MANUFACTURING COMPANY, Providence, R. I., a Corporation of Rhode Island. Renewed August 18, 1928.

70,410. GELATIN. Registered August 25, 1908. CRYSTAL GELATINE COMPANY, Boston, Mass., a Corporation of Massachusetts. Renewed August 25, 1928.

70,444. CERTAIN BOTTLES AND JARS. Registered September 1, 1908. GEORGE P. ALTENBERG, Cincinnati, Ohio. Renewed September 1, 1928, to The American Thermos Bottle Company, Norwich, Conn., a Corporation of Ohio, assignee by mesne assignments.

70,596. PERFUMES, TOILET WATERS, SACHET POWDERS, AND TOILET POWDERS. Registered September 15, 1908. THE C. B. WOODWORTH SONS CO., Rochester, N. Y. Renewed September 15, 1928, to Woodworth, Inc., New York and Rochester, N. Y., a Corporation of New York, assignee.

70,610. DECORATIVE FABRICS FOR WALLS AND CEILINGS. Registered September 15, 1908. SANATILE COMPANY. Renewed September 15, 1928, to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio, assignee by mesne assignments.

70,646. SOAPS. Registered September 22, 1908. E. WERTHEIMER & CIE., Paris, France. Renewed September 22, 1928, to Bourjois, Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

70,647. SOAPS. Registered September 22, 1908. E. WERTHEIMER & CIE., Paris, France. Renewed September 22, 1928, to Bourjois, Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

70,648. SOAPS. Registered September 22, 1908. E. WERTHEIMER & CIE., Paris, France. Renewed September 22, 1928, to Bourjois, Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

70,731. A NONALCOHOLIC CARBONATED TONIC BEVERAGE. Registered September 29, 1908. FRANK H. KERON. Renewed September 29, 1928, to Central Falls Bottling Company, Central Falls, R. I., successor.

70,737. INSULATED WIRE. Registered September 29, 1908. NATIONAL INDIA RUBBER CO., Bristol, R. I. Renewed September 29, 1928, to United States Rubber Company, New Brunswick, N. J., and New York, N. Y., a Corporation of New Jersey, assignee.

70,814. A PREPARATION FOR WHITENING ALL ARTICLES OF BUFF OR BUCKSKIN LEATHER. Registered October 6, 1908. JOSEPH PICKERING AND SONS, LIMITED, Sheffield, England, a Corporation of Great Britain. Renewed October 6, 1928.

70,857. SCREW DRIVERS. Registered October 13, 1908. HENRY DISSTON & SONS, INCORPORATED, Tacony, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed October 13, 1928.

70,859. POSTHOLE DIGGERS. Registered October 13, 1908. HENRY DISSTON & SONS, INCORPORATED, Tacony, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed October 13, 1928.

70,860. SAWS. Registered October 13, 1908. HENRY DISSTON & SONS, INCORPORATED, Tacony, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed October 13, 1928.

70,891. MUSLIN FOR MAKING CURTAINS. Registered October 13, 1908. MARTIN MANUFACTURING COMPANY, Newton, Mass., a Corporation of Massachusetts. Renewed October 13, 1928.

70,892. WINDOW CURTAINS AND LACE AND MUSLIN FOR MAKING CURTAINS. Registered October 13, 1908. MARTIN MANUFACTURING COMPANY, Newton, Mass., a Corporation of Massachusetts. Renewed October 13, 1928.

70,893. WINDOW CURTAINS AND LACE AND MUSLIN FOR MAKING CURTAINS. Registered October 13, 1908. MARTIN MANUFACTURING COMPANY, Newton, Mass., a Corporation of Massachusetts. Renewed October 13, 1928.

70,935. A TOILET CREAM. Registered October 20, 1908. THE C. B. WOODWORTH SONS CO., Rochester, N. Y. Renewed October 20, 1928, to Woodworth, Inc., New York and Rochester, N. Y., a Corporation of New York, assignee.

71,131. HAND-OPERATED SCREW DRIVERS. Registered November 3, 1908. HENRY DISSTON & SONS, INCORPORATED, Tacony, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed November 3, 1928.

71,143. PAPER, ENVELOPES, TABLETS, AND BLANK BOOKS. Registered November 3, 1908. J. C. BLAIR COMPANY, Huntington, Pa., a Corporation of Pennsylvania. Renewed November 3, 1928.

71,166. A MALT BEVERAGE. Registered November 3, 1908. THE PETER SCHOENHOFEN BREWING COMPANY. Renewed November 3, 1928, to Schoenhofen Company, Chicago, Ill., a Corporation of Illinois, assignee.

71,167. A MALT BEVERAGE. Registered November 3, 1908. THE PETER SCHOENHOFEN BREWING COMPANY. Renewed November 3, 1928, to Schoenhofen Company, Chicago, Ill., a Corporation of Illinois, assignee.

71,201. HOSIERY. Registered November 10, 1908. LORD & TAYLOR. Renewed November 10, 1928, to Gotham Silk Hosiery Co. Inc., New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

71,223. LEAD PENCILS. Registered November 10, 1908. EAGLE PENCIL COMPANY. Renewed November 10, 1928, to Eagle Pencil Company, New York, N. Y., a Corporation of Delaware, assignee.

71,237. ASBESTOS PACKING. Registered November 10, 1908. THE NEW JERSEY ASBESTOS COMPANY, Camden, N. J. Renewed November 10, 1928, to The New Jersey Asbestos Company, New York, N. Y., a Corporation of New Jersey.

71,429. HOSIERY. Registered November 24, 1908. BURSON KNITTING COMPANY, Rockford, Ill., a Corporation of Illinois. Renewed November 24, 1928.

71,430. HOSIERY. Registered November 24, 1908. BURSON KNITTING COMPANY, Rockford, Ill., a Corporation of Illinois. Renewed November 24, 1928.

71,488. CANNED SALMON. Registered November 24, 1908. A. BOOTH AND COMPANY, Chicago, Ill.; Baltimore, Md.; St. Paul, Duluth, and Minneapolis, Minn.; St. Louis, Mo.; Louisville, Ky.; Omaha, Nebr.; Indianapolis, Ind., and Port Arthur, Canada. Renewed November 24, 1928, to Booth Fisheries Company, Chicago, Ill., a Corporation of Delaware, assignee.

71,518. CALCIUM CARBID. Registered December 1, 1908. UNION CARBIDE COMPANY, Chicago, Ill. Renewed December 1, 1928, to Union Carbide Company, New York, N. Y., a Corporation of Virginia.

71,578. BOOTS AND SHOES OF LEATHER, CLOTH, AND SATIN. Registered December 1, 1908. FRANK BROTHERS. Renewed December 1, 1928, to Samuel Frank, doing business as Frank Brothers, New York, N. Y., successor.

71,667. BACON. Registered December 8, 1908. KINGAN AND COMPANY, LIMITED, Belfast, Ireland; Indianapolis, Ind.; Baltimore, Md., and Richmond, Va. Renewed December 8, 1928, to Kingan & Co. Inc., Indianapolis, Ind., a Corporation of New Jersey, assignee.

71,693. SILK PIECE GOODS AND SILK-MIXED PIECE GOODS. Registered December 8, 1908. SUSQUEHANNA SILK MILLS. Renewed December 8, 1928, to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York, assignee.

71,702. LINIMENT. Registered December 15, 1908. ENGELBERT BACH, Taylorville, Ill. Renewed December 15, 1928.

71,780. CANNED FRESH CAPE LOBSTER. Registered December 15, 1908. HERMAN DUBLER, New York, N. Y. Renewed December 15, 1928.

71,833. FILES. Registered December 15, 1908. NICHOLSON FILE COMPANY, Providence, R. I., a Corporation of Rhode Island. Renewed December 15, 1928.

71,855. SAFETY CLIPS FOR FOUNTAIN PENS AND PENCILS. Registered December 15, 1908. L. E. WATERMAN COMPANY, New York, N. Y., a Corporation of New York. Renewed December 15, 1928.

71,904. VETERINARY REMEDY. Registered December 22, 1908. AUGUSTON AARONS. Renewed December 22, 1928, to A. Aarons Co. Inc., New Orleans, La., a Corporation of Louisiana, successor.

71,927. MEDICAL PREPARATION FOR SKIN DISEASES. Registered December 22, 1908. WALTER A. MESTREZAT, Morgantown, W. Va. Renewed December 22, 1928.

71,949. GLASS BOTTLES. Registered December 22, 1908. STANDARD GLASS CO., Marion, Ind., a Corporation of Indiana. Renewed December 22, 1928.

71,970. WATCHES. Registered December 22, 1908. SPROEHNLE & COMPANY. Renewed December 22, 1928, to Sproehnle, Inc., Chicago, Ill., a Corporation of Illinois, assignee.

LABELS

REGISTERED JULY 31, 1928.

34,361.—*Title:* JUS-RITE. For Hair Pomade. ROBERT S. ANDREWS, doing business as A & W Chemical Co., Chicago, Ill. Published May 18, 1928.

34,362.—*Title:* BEECH-NUT BRAND CHEWING GUM, WINTERGREEN (1). For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published April 14, 1926.

34,363.—*Title:* BEECH-NUT BRAND CHEWING GUM, WINTERGREEN (2). For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published April 14, 1926.

34,364.—*Title:* BEECH-NUT BRAND CHEWING GUM, LICORICE (3). For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published April 8, 1926.

34,365.—*Title:* BEECH-NUT BRAND CHEWING GUM, LICORICE (4). For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published April 8, 1926.

34,366.—*Title:* BEECH-NUT BRAND CHEWING GUM, FRUIT FLAVORED (6). For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published April 14, 1926.

34,367.—*Title:* FROM BUDDY SQUIRREL'S NUT SHOPS. For All Varieties, Forms, and Grades of Edible and Nonedible Nuts, Nut Butters, Nut Pastes, Nut Emulsions, Nut Confections, Nut Drinks and Specialties, Nut Sundae Nuts, Nut Health Foods, and Other By-Products. CONTINENTAL NUT COMPANY, Seattle, Wash. Published March 12, 1928.

34,368.—*Title:* EDMONDSON'S ORIGINAL CURATONE OINTMENT. For Ointment. D. C. EDMONDSON, Little River, Fla. Published November 1, 1927.

34,369.—*Title:* ODEURS—GO. For Deodorant. ROY E. FLAGLER, doing business as Ritzie Products Company, Tampa, Fla. Published November 9, 1927.

34,370.—*Title:* CIRCULAR HANDLES. For Circular Handles for Umbrellas, Flagstaffs, Canes, Toys, Etc. MANUEL C. GARDINE, St. Louis, Mo. Published November 12, 1927.

34,371.—*Title:* COUNTRY CANDY HAM. For Candy. C. E. GHEENS, doing business as Bradas & Gheens, Louisville, Ky. Published April 28, 1928.

34,372.—*Title:* SILVITOL VOLATILE OIL. For Preparation for the Relief of Muscular Pains, Insect Bites, Etc. DR. W. D. HAMMOND, doing business as Silvitol Laboratory, Minneapolis, Minn. Published May 28, 1928.

34,373.—*Title:* PRESCRIPTION NO. 77. For Medicinal Tablet. HOME DRUG COMPANY, Minneapolis, Minn. Published May 1, 1928.

34,374.—*Title:* HOVENA CLEANSING. For a Cleaning Preparation for Clothing, Draperies, Upholsteries, Etc. C. F. HOVEY COMPANY, Boston, Mass. Published October 13, 1927.

34,375.—*Title:* OLD KWONG. For Tonic. CHIN LAIN, doing business as Kwong Quong Chiy Co., Canton, China, and as Quong Chong Co., San Francisco, Calif. Published May 10, 1928.

34,376.—*Title:* SILVER-FLASH. For a Dirt and Grease Remover or a General Cleaner. SAMUEL RILEY LESTER, Sheds, N. Y. Published November 17, 1925.

34,377.—*Title:* AIRTITE TUBE PATCH. For Tire Patches. MILLER MOTOR SPECIALTIES, INC., Dallas, Tex. Published April 24, 1928.

34,378.—*Title:* SIPPEL'S KREME WHIPT HONEY. For Honey. MOUNTAIN STATES HONEY PRODUCERS ASSOCIATION, Boise, Idaho. Published May 15, 1928.

34,379.—*Title:* FACEL CLEANSING TISSUES. For Cleansing Tissues. NATIONAL CELLULOSE CORPORATION, New York, N. Y. Published February 6, 1928.

34,380.—*Title:* SANEEN. For Pads for Sanitary Napkins. NATIONAL CELLULOSE CORPORATION, New York, N. Y. Published February 6, 1928.

34,381.—*Title:* WIOLA BREATH GUM. For Chewing Gum. PETER PASARICK, Chicago, Ill. Published April 14, 1928.

34,382.—*Title:* ST. PATRICK. For Candy. THE PURITAN CHOCOLATE COMPANY, doing business as Jenny Lind Candy Shops, Cincinnati, Ohio. Published February 28, 1928.

34,383.—*Title:* PURITY CAKE. For Cake. PURITY CAKE COMPANY, Chicago, Ill. Published August 1, 1927.

34,384.—*Title:* FAITH. For Pillowcases and Sheets. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va. Published January 15, 1928.

34,385.—*Title:* HOZ-AID. For Powdered Alum. ROBERTS PRODUCTS COMPANY, Springfield, Ohio. Published November 1, 1927.

34,386.—*Title:* IMPROVED 0 6 6, SYSTEM TONIC. For Medicinal Preparation. THE ROTHENBERG DRUG CO., Cleveland, Ohio. Published June 7, 1928.

34,387.—*Title:* PROSPERITY. For Malt Syrup. HYMAN SADUR, Chicago, Ill. Published June 24, 1928.

34,388.—*Title:* LA BELLE. For Hairpins. THE STERLING PIN CO., Derby, Conn. Published June 4, 1928.

34,389.—*Title:* MERIT-MELLO-FIT. For Hats. TRADE LITHOGRAPH & PRINTING COMPANY, INC., doing business as Trade Litho Co., Inc., New York, N. Y. Published October 1, 1927.

34,390.—*Title:* STA-STRATE. For Article of Men's Furnishing Goods. AMOS DENISON WILLIAMS, Middletown, Ohio. Published May 25, 1928.

PRINTS

REGISTERED JULY 31, 1928.

11,123.—*Title:* ELIZABETH ARDEN IS PERSONALLY INTERESTED IN YOU. For Venetian Toilet Preparations. ELIZABETH ARDEN, INC., New York, N. Y. Published June 25, 1928.

11,124.—*Title:* IN LOOSE-FITTING B. V. D. UNION SUITS. For Athletic Underwear. The B. V. D. COMPANY, INC., New York, N. Y. Published May 1, 1928.

11,125.—*Title:* DO A HAND-SPRING. For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published June 25, 1928.

11,126.—*Title:* PEASANT ART INDUSTRY MADE IN CZECHOSLOVAKIA. For Examples of Peasant Art. CZECHO PEASANT ART CO., INC., New York, N. Y. Published June 18, 1928.

11,127.—*Title:* SWAGGERBONDS. For Hats. DELRAY HAT, INC., New York, N. Y. Published June 26, 1928.

11,128.—*Title:* ODEURS—GO. For Deodorant. ROY E. FLAGLER, doing business as Ritzie Products Company, Tampa, Fla. Published November 9, 1927.

11,129.—*Title:* WHEN YOU TRAVEL LIGHT TRAVEL RIGHT. For Wardrobe Hand Luggage. HARTMANN TRUNK COMPANY, Racine, Wis. Published June 13, 1928.

11,130.—*Title:* FROZEN PEANUT BAR. For Ice-Cream Bar. HENRY W., INC., Chicago, Ill. Published May 5, 1928.

11,131.—*Title:* 4 MILLION DOLLAR CLOTHING PLAN. For Men's and Boys' Clothing. MOE LEVY & SON, New York, N. Y. Published April 20, 1928.

11,132.—*Title:* EAT IT IN DELICIOUS MUFFINS. For Post's Bran Flakes. POSTUM COMPANY, INCORPORATED, New York, N. Y. Published February 20, 1928.

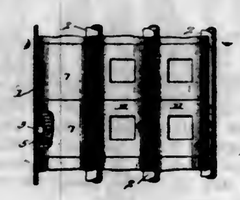
11,133.—*Title:* THE CAVERN. For Lunches. GEORGIA S. O'CONNOR, Minneapolis, Minn. Published January 15, 1928.

11,134.—*Title:* HOW EASY IT IS TO SHAVE WHEN YOU CONTROL HYDROLYSIS. For Shaving Cream. E. R. SQUIBB & SONS, doing business as Squibb's, New York, N. Y. Published March 11, 1928.

REISSUES

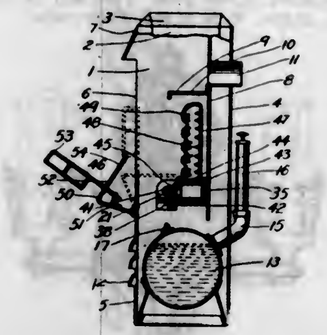
JULY 31, 1928.

17,052. SIDE ARCH BRICK. EDWARD M. CARROLL, Sanford, Fla., assignor, by direct and mesne assignments, to Carroll Corporation, Atlanta, Ga., a Corporation of Georgia. Filed Aug. 20, 1925. Serial No. 51,531. Original No. 1,487,146, dated Mar. 18, 1924, Serial No. 626,902, filed Mar. 22, 1923. 5 Claims. (Cl. 110—87.)



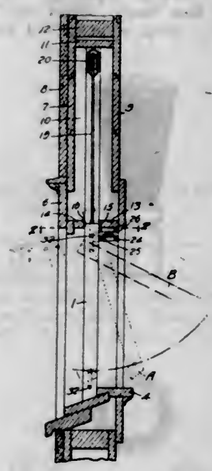
1. A side brick for locomotive arches, curved throughout its upper surface and curved substantially throughout its lower surface, the brick being provided with a depending flange on one side, which flange is at right angles to the body of the brick, the outer surface of this flange being flat to form a relatively wide contracting area, and this flange being provided with a depression to receive a supporting means, and the opposite side of the brick being undercut to form a supporting ledge.

17,053. OIL STOVE. WILLIAM KENT KISE, Kansas City, Mo., assignor to The Everbrite Stove Company, Kansas City, Mo., a Corporation of Missouri. Filed Oct. 30, 1926. Serial No. 145,333. Original No. 1,514,773, dated Nov. 11, 1924. Serial No. 523,303, filed Dec. 19, 1921. 3 Claims. (Cl. 126—93.)



1. An oil stove comprising a casing having an opening across the front thereof, a burner across the casing at the lower edge of the opening and having fuel openings in its upper face, and a guard hinged to the front of the casing at the lower edge of the opening and having an inwardly projecting fender-supporting shelf forming a part thereof.

17,054. WINDOW. CLAUDE A. LEWIS, Houston, Tex., assignor to American Window Company, a Corporation of Delaware. Filed Dec. 24, 1927. Serial No. 242,465. Original No. 1,641,390, dated Sept. 6, 1927, Serial No. 120,600, filed July 6, 1926. 10 Claims. (Cl. 20—49.)



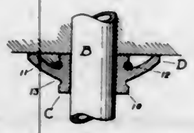
1. A window including a casing and a sash, slideways in the sides of said casing, riders in said slideways, said riders having upper and lower grooves therein, upper and lower pins on said sash fitting within said grooves, said pins being removable from said grooves at both ends thereof whereby said sash may be removed from the riders.

17,055. [WITHDRAWN.]

17,056. FLOOR AND CEILING PLATE. EDWARD L. RIDLER, St. Paul, Minn. Filed Dec. 30, 1926. Serial No. 158,122. Original No. 1,533,141, dated Apr. 14, 1925, Serial No. 543,809, filed Mar. 14, 1922. 4 Claims. (Cl. 126—317.)

1. A plate divided segmentally and including a sleeve and a dished flange thereon, said sleeve being grooved

circumferentially and cupped at one end thereof by said flange, the segments of the plate being designed to be assembled around a pipe, and a flexible retaining mem-



ber adapted to be coupled at its ends around the sleeve and within said groove for yieldingly, slidably gripping the plate segments in assembled relation upon said pipe.

17,057. VALVE CONSTRUCTION FOR INFLATABLE ARTICLES. WILLIAM J. VOIT, Los Angeles, Calif., assignor to W. J. Voit Rubber Co., Los Angeles, Calif., a Corporation of California. Filed Apr. 5, 1928. Serial No. 267,766. Original No. 1,644,096, dated Oct. 4, 1927, Serial No. 186,023, filed Apr. 23, 1927. 10 Claims. (Cl. 152—12.)



1. An inflatable article having a slit therein, a member secured to an inner wall of the article beneath said slit, and a tube secured in said member and adapted to be folded in the space between said inner wall and member.

DESIGNS

JULY 31, 1928.

75,892. LATHER BRUSH OR SIMILAR ARTICLE. ANDREW ALBRIGHT, Jr., Miami, Fla., assignor to Rubber and Celluloid Products Company, Newark, N. J., a Corporation of New Jersey. Filed Oct. 16, 1926. Serial No. 19,387. Term of patent 14 years.



The ornamental design for a lather brush or similar article, as shown.

75,893. UPRIGHT FOR AN ANDIRON. OSCAR B. BACH, New York, N. Y. Filed Dec. 11, 1926. Serial No. 20,021. Term of patent 3½ years.



The ornamental design for an upright for an andiron as shown.

75,894. FRONT PLATE FOR AN ELECTRIC WALL BRACKET OR SIMILAR ARTICLE. JOHN A. BOEHRINGER, Springfield, N. N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed May 22, 1928. Serial No. 26,798. Term of patent 3½ years.



The ornamental design for a front plate for an electric wall bracket or similar article, as shown.

75,895. ELECTRIC WALL BRACKET OR SIMILAR ARTICLE. JOHN A. BOEHRINGER, Springfield, N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed May 22, 1928. Serial No. 26,799. Term of patent 3½ years.



The ornamental design for an electric wall bracket or similar article, as shown.

75,896. CHANDELIER OR SIMILAR ARTICLE. JOHN A. BOEHRINGER, Springfield, N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed May 22, 1928. Serial No. 26,800. Term of patent 3½ years.



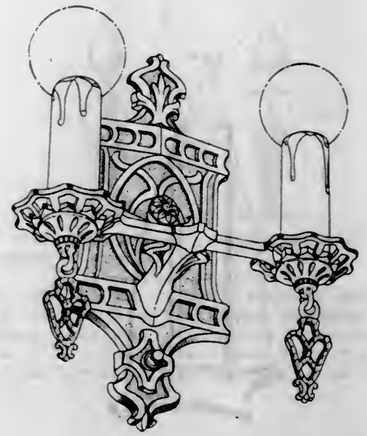
The ornamental design for a chandelier or similar article, as shown.

75,897. COMBINED STRAP AND ARM FOR LIGHTING FIXTURES OR SIMILAR ARTICLES. JOHN A. BOEHRINGER, Springfield, N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed May 23, 1928. Serial No. 26,819. Term of patent 3½ years.



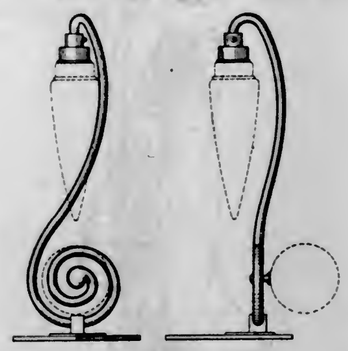
The ornamental design for a combined strap and arm for lighting fixtures or similar articles, as shown.

75,898. ELECTRIC WALL BRACKET OR SIMILAR ARTICLE. JOHN A. BOEHRINGER, Springfield, N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed May 23, 1928. Serial No. 26,820. Term of patent 3½ years.



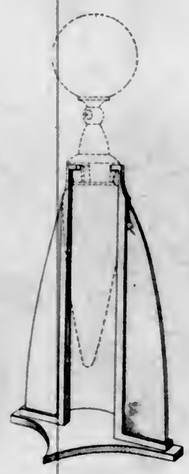
The ornamental design for an electric wall bracket or similar article, as shown.

75,899. ATOMIZER. THOMAS A. DE VILBISS, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 7, 1928. Serial No. 26,181. Term of patent 7 years.



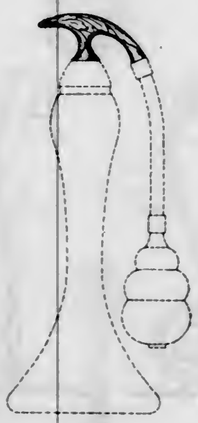
The ornamental design for an atomiser, substantially as shown.

75,900. ATOMIZER SUPPORT. THOMAS A. DE VILBISS, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 7, 1928. Serial No. 26,184. Term of patent 7 years.



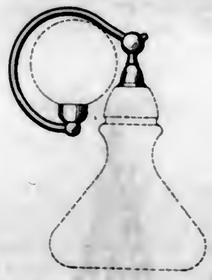
The ornamental design for an atomizer support, substantially as shown.

75,901. ATOMIZER TOP. THOMAS A. DE VILBISS, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 7, 1928. Serial No. 26,187. Term of patent 7 years.



The ornamental design for an atomizer top, substantially as shown.

75,902. ATOMIZER TOP. THOMAS A. DE VILBISS, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 7, 1928. Serial No. 26,188. Term of patent 7 years.



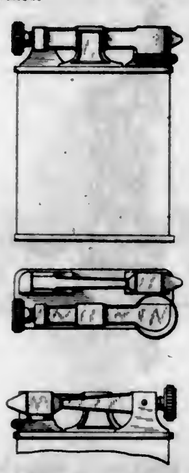
The ornamental design for an atomizer top, substantially as shown.

75,903. BOTTLE. HENRY A. DUPIRCH, St. Louis, Mo. Filed May 11, 1928. Serial No. 26,627. Term of patent 7 years.



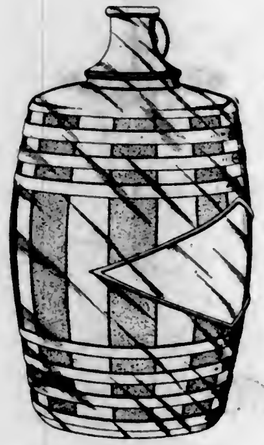
The ornamental design for a bottle, as shown.

75,904. CIGAR LIGHTER. HARRY ESTEROW, New York, N. Y. Filed May 11, 1928. Serial No. 26,637. Term of patent 14 years.



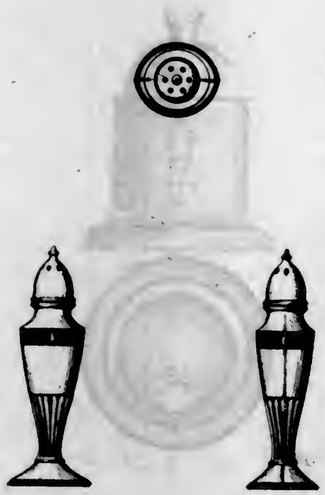
The ornamental design for a cigar lighter, as shown.

75,905. JUG. ANTHONY R. FIORITA, Moberly, Mo., assignor to The Wine-Dip Company, Moberly, Mo., a Corporation of Missouri. Filed Mar. 31, 1928. Serial No. 26,083. Term of patent 14 years.



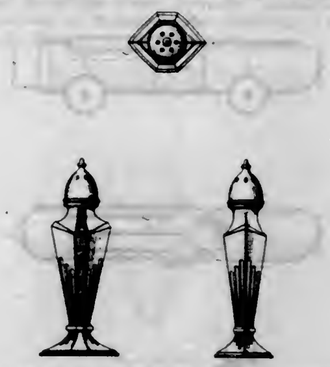
The ornamental design for a jug as shown.

75,906. SALT AND PEPPER SHAKER. ALFRED J. FLAUDER, Bridgeport, Conn. Filed May 26, 1928. Serial No. 26,868. Term of patent 7 years.



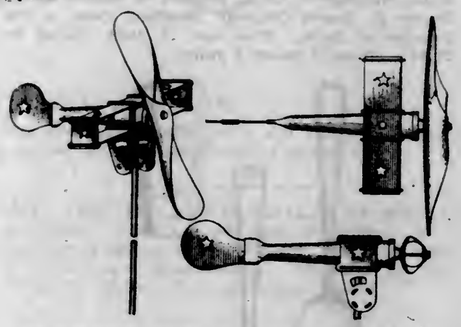
The ornamental design for a salt and pepper shaker substantially as shown.

75,907. SALT AND PEPPER SHAKER. ALFRED J. FLAUDER, Bridgeport, Conn. Filed May 28, 1928. Serial No. 26,891. Term of patent 7 years.



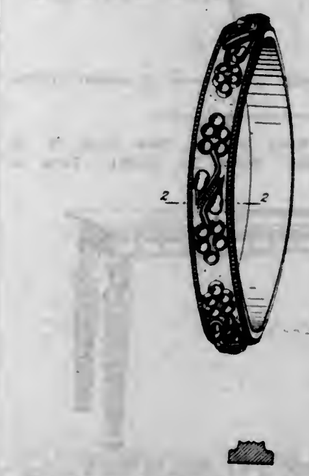
The ornamental design for a salt and pepper shaker substantially as shown.

75,908. PIN WHEEL. JOHN S. FRIDOLPH, New York, N. Y., and JEAN B. A. DUCHESNEAU, Leominster, Mass., assignors to De-Lite-Us Spring Clasp Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1928. Serial No. 25,876. Term of patent 3½ years.



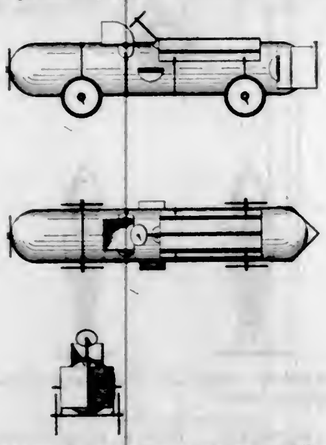
The ornamental design for a pin wheel, as shown.

75,909. WEDDING RING. ALBERT J. FRIEDMAN, Chicago, Ill. Filed Mar. 17, 1927. Serial No. 21,174. Term of patent 14 years.



The ornamental design for a pin wheel, as shown.

75,910. TOY AUTOMOBILE. SAMUEL GORDON, Brooklyn, N. Y. Filed Feb. 18, 1927. Serial No. 20,804. Term of patent 7 years.



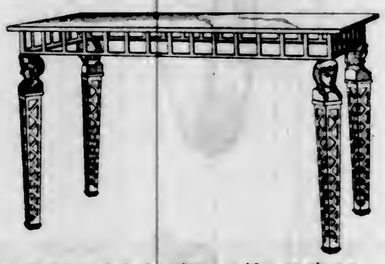
The ornamental design for a toy automobile, substantially as shown.

75,911. SPOON OR SIMILAR ARTICLE. EDWIN W. HALL, Wallingford, Conn., assignor to Simeon L. and George H. Rogers Company, Hartford, Conn., a Corporation of Maine. Filed Apr. 24, 1928. Serial No. 26,441. Term of patent 7 years.



The ornamental design for a spoon or similar article, as shown.

75,912. TABLE. EMIL HAUSER, New York, N. Y. Filed Feb. 27, 1928. Serial No. 25,601. Term of patent 3½ years.



The ornamental design for a table, as shown.

75,913. CANDLESTICK. ARTHUR E. HOBSON, Meriden, Conn. Filed May 14, 1928. Serial No. 26,673. Term of patent 14 years.



The ornamental design for a candlestick as shown.

75,914. COMBINED PENHOLDER AND CALENDAR. CARL HORIX, Chicago, Ill. Filed Feb. 19, 1927. Serial No. 20,815. Term of patent 7 years.



The ornamental design for a combined penholder and calendar, as shown.

75,915. SALT AND PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Apr. 9, 1928. Serial No. 26,205. Term of patent 7 years.



The ornamental design for a salt and pepper shaker or similar article substantially as shown.

75,916. SALT AND PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Mar. 19, 1928. Serial No. 25,907. Term of patent 7 years.



The ornamental design for a salt and pepper shaker or similar article substantially as shown.

75,917. SALT AND PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Mar. 19, 1928. Serial No. 25,908. Term of patent 7 years.



The ornamental design for a salt and pepper shaker or similar article substantially as shown.

75,918. SALT AND PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Mar. 19, 1928. Serial No. 25,909. Term of patent 7 years.



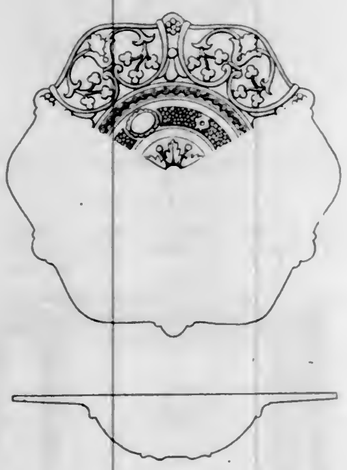
The ornamental design for a salt and pepper shaker or similar article substantially as shown.

75,919. SALT AND PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Mar. 19, 1928. Serial No. 25,910. Term of patent 7 years.



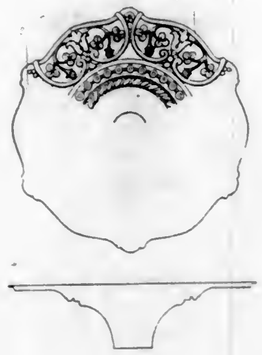
The ornamental design for a salt and pepper shaker or similar article substantially as shown.

75,920. ELECTRIC CEILING FIXTURE. ALFRED E. LARSEN, Chicago, Ill., assignor to Unique Lamp & Casting Company, a Copartnership consisting of Alfred E. Larsen and Lawrence Larsen, Chicago, Ill. Filed May 10, 1928. Serial No. 26,618. Term of patent 3½ years.



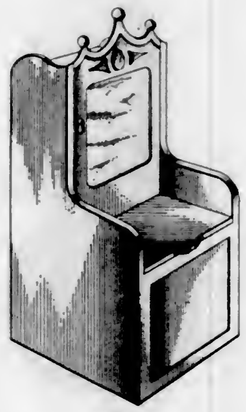
The ornamental design for an electric ceiling fixture as shown.

75,921. ELECTRIC CEILING FIXTURE. ALFRED E. LARSEN, Chicago, Ill., assignor to Unique Lamp & Casting Company, Chicago, Ill., a Copartnership consisting of Alfred E. Larsen and Lawrence Larsen. Filed May 10, 1928. Serial No. 26,619. Term of patent 3½ years.



The ornamental design for an electric ceiling fixture as shown.

75,922. COVER FOR TOILETS. ALICE LITTLE, Santa Cruz, Calif. Filed Apr. 11, 1928. Serial No. 26,273. Term of patent 7 years.



The ornamental design for a cover for toilets substantially as shown.

75,923. BRACKET FOR DRAPERY POLE OR ROD. GUNNAR MADVIG, Oakland, Calif. Filed Mar. 13, 1928. Serial No. 25,829. Term of patent 3½ years.



The ornamental design for a bracket for drapery pole or rod substantially as shown.

75,924. BRACKET FOR DRAPERY POLE OR ROD. GUNNAR MADVIG, Oakland, Calif. Filed Mar. 13, 1928. Serial No. 25,830. Term of patent 3½ years.



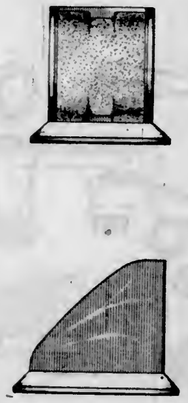
The ornamental design for a bracket for drapery pole or rod substantially as shown.

75,925. BRACKET FOR DRAPERY POLE OR ROD. GUNNAR MADVIG, Oakland, Calif. Filed Mar. 13, 1928. Serial No. 25,831. Term of patent 3½ years.



The ornamental design for a bracket for drapery pole or rod substantially as shown.

75,926. JEWELRY BOX OR SIMILAR ARTICLE. JAMES S. MCKEEBY, Framingham, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a Corporation of Massachusetts. Filed Feb. 23, 1928. Serial No. 25,547. Term of patent 7 years.



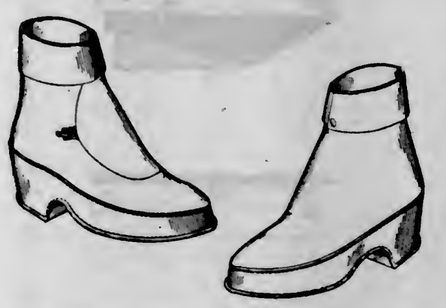
The ornamental design for a jewelry box or similar article, substantially as shown and described.

75,927. CHAIR. BARNET W. MCLEAN, Philadelphia, Pa. Filed July 29, 1927. Serial No. 22,944. Term of patent 3½ years.



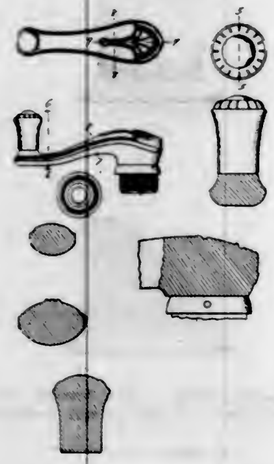
The ornamental design for a chair substantially as shown.

75,928. OVERSHOE OR SIMILAR ARTICLE. LEAH G. MILKES, Chicago, Ill. Filed Feb. 3, 1928. Serial No. 25,155. Term of patent 14 years.



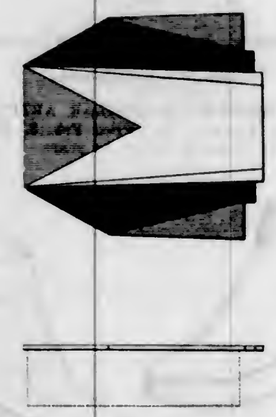
The ornamental design for an overshoe or similar article, substantially as shown.

75,929. DOOR-WINDOW-REGULATOR HANDLE. JOHN J. PUNKE, Detroit, Mich., assignor to Hupp Motor Car Corporation, Detroit, Mich., a Corporation of Michigan. Filed May 21, 1828. Serial No. 26,795. Term of patent 7 years.



The ornamental design for a door window regulator handle, substantially as shown.

75,930. BOX OR SIMILAR ARTICLE. LOUIS W. RICE, New York, N. Y., assignor to Bernard Rice's Sons, Inc., New York, N. Y., a Corporation of New York. Filed May 18, 1928. Serial No. 26,753. Term of patent 7 years.



The ornamental design for a box or similar article, substantially as shown and described.

75,931. WATCHCASE. VICTOR RITSCHARD, Riverton, N. J., assignor to Keystone Watch Case Corporation, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 5, 1928. Serial No. 26,584. Term of patent 7 years.



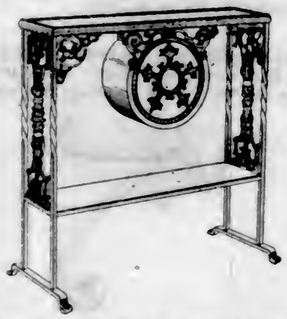
The ornamental design for a watchcase, as shown.

75,932. SIGNAL LAMP FOR VEHICLES. WASHINGTON I. SCHRYVER, Prophetstown, Ill. Filed Oct. 10, 1927. Serial No. 23,697. Term of patent 14 years.



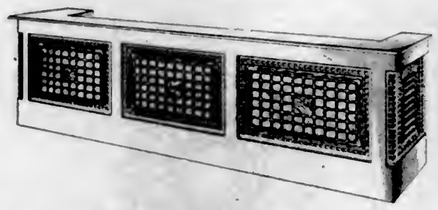
The ornamental design for a signal lamp for vehicles, as shown.

75,933. COMBINED RADIOTABLE AND LOUD-SPEAKER CASING. FREDERICK SCHWARTZ, Brooklyn, N. Y., assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Mar. 5, 1928. Serial No. 25,711. Term of patent 7 years.



The ornamental design for a combined radio table and loud speaker casing, as shown.

75,934. SODA FOUNTAIN. FRANK SOHN, Chicago, LOUIS G. MARMION, Villa Park, and ERIC H. GIBIAN, Chicago, Ill., assignors to the Vitrolite Company, a Corporation of West Virginia. Filed Oct. 13, 1927. Serial No. 23,747. Term of patent 7 years.



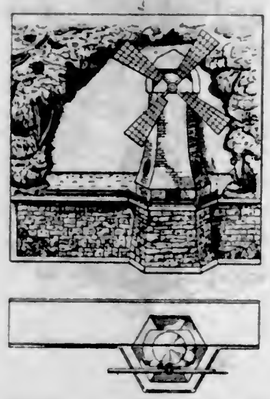
The ornamental design for a soda fountain, as shown.

75,935. RADIATOR CAP. KYLE E. STANT, Connersville, Ind. Filed May 19, 1928. Serial No. 26,768. Term of patent 3½ years.



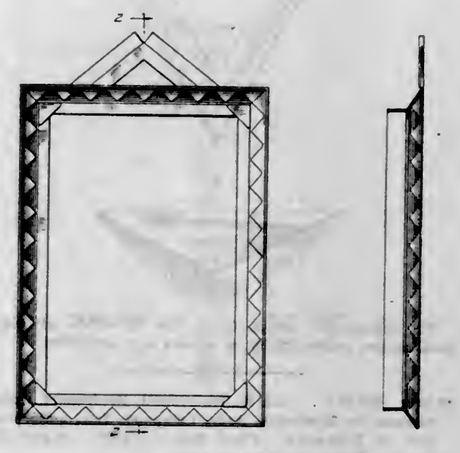
The ornamental design for a radiator cap, as shown.

75,936. SCENIC SETTING FOR STORE DISPLAY. BARNET L. STEIN, Glencoe, and FRANK KAPLIN, Evanston, Ill. Filed July 30, 1927. Serial No. 22,965. Term of patent 14 years.



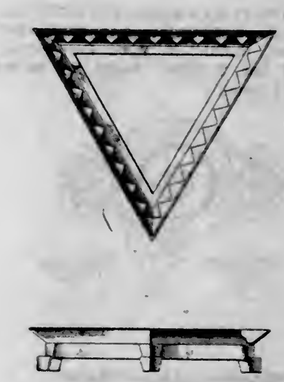
The ornamental design for a scenic setting for store display, as shown.

75,937. FRAME FOR TRAYS OR THE LIKE. ELSA TENNHARDT, New York, N. Y., assignor to E. & J. Bass, Inc., a Corporation of New York. Filed May 23, 1928. Serial No. 26,828. Term of patent 3½ years.



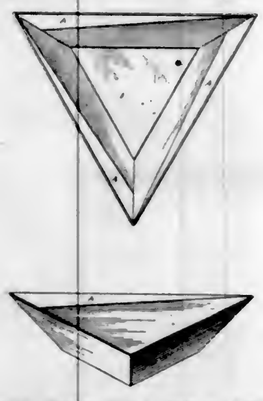
The ornamental design for a frame for trays or the like substantially as shown.

75,938. FRAME FOR TRAYS OR THE LIKE. ELSA TENNHARDT, New York, N. Y., assignor to E. & J. Bass, Inc., a Corporation of New York. Filed May 23, 1928. Serial No. 26,829. Term of patent 3½ years.



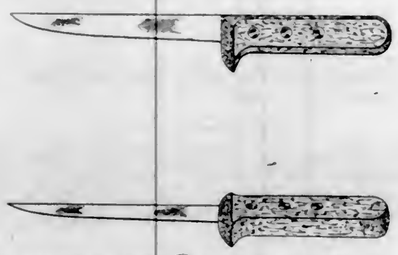
The ornamental design for a frame for trays or the like substantially as shown.

75,939. DISH OR ARTICLE OF ANALOGOUS NATURE. ELSA TENNHARDT, New York, N. Y., assignor to E. & J. Bass, Inc., a Corporation of New York. Filed May 23, 1928. Serial No. 26,830. Term of patent 3½ years.



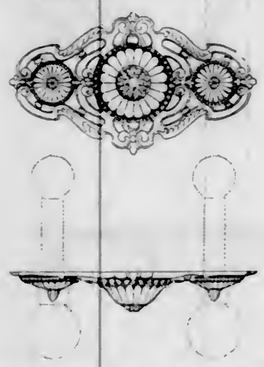
The ornamental design for a disk or article of analogous nature substantially as shown and described.

75,940. KNIFE. CARL W. TILLMANNS, Bridgeport, Conn., assignor to Remington Arms Company, Inc., a Corporation of Delaware. Filed May 3, 1927. Serial No. 21,847. Term of patent 14 years.



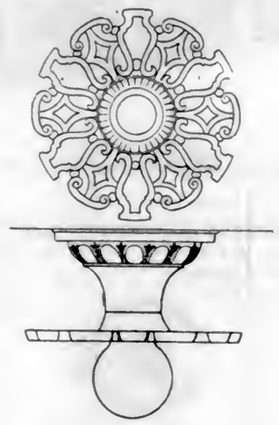
The ornamental design for a knife, as shown.

75,941. CEILING-PLATE ELECTRIC FIXTURE. FRANK YOKEL, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y., a Corporation of New York. Filed Apr. 2, 1928. Serial No. 26,104. Term of patent 3½ years.



The ornamental design for a ceiling plate electric fixture, as shown.

75,942. FIXTURE FOR CEILING LIGHTS. FRANK YOKEL, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y., a Corporation of New York. Filed Apr. 2, 1928. Serial No. 26,105. Term of patent 3½ years.



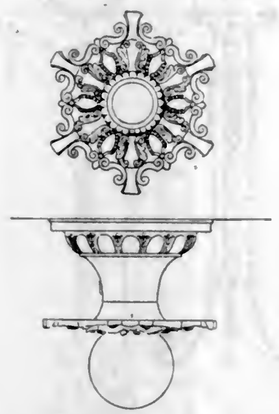
The ornamental design for a fixture for ceiling lights, as shown.

75,943. CHANDELIER. FRANK YOKEL, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y., a Corporation of New York. Filed Apr. 2, 1928. Serial No. 26,106. Term of patent 3½ years.



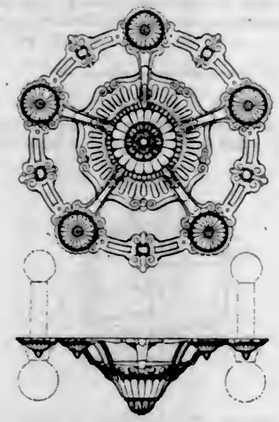
The ornamental design for a chandelier, as shown.

75,944. FIXTURE FOR CEILING LIGHTS. FRANK YOKEL, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y., a Corporation of New York. Filed Apr. 2, 1928. Serial No. 26,107. Term of patent 3½ years.



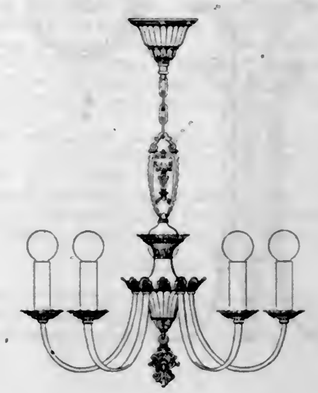
The ornamental design for a fixture for ceiling lights, as shown.

75,945. CHANDELIER PLATE. FRANK YOKEL, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y., a Corporation of New York. Filed Apr. 2, 1928. Serial No. 26,108. Term of patent 3½ years.



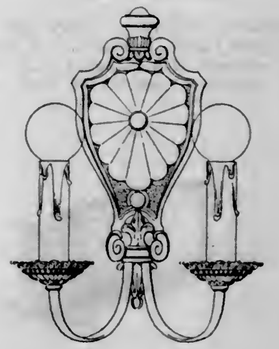
The ornamental design for a chandelier plate, as shown.

75,946. CHANDELIER. FRANK YOKEL, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y., a Corporation of New York. Filed Apr. 2, 1928. Serial No. 26,109. Term of patent 3½ years.



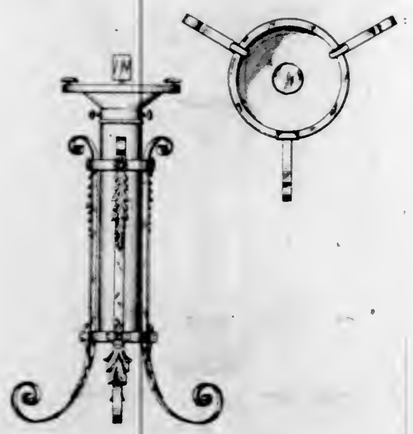
The ornamental design for a chandelier, as shown.

75,947. WALL-BRACKET ELECTRIC FIXTURE. FRANK YOKEL, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y., a Corporation of New York. Filed Apr. 2, 1928. Serial No. 26,110. Term of patent 3½ years.



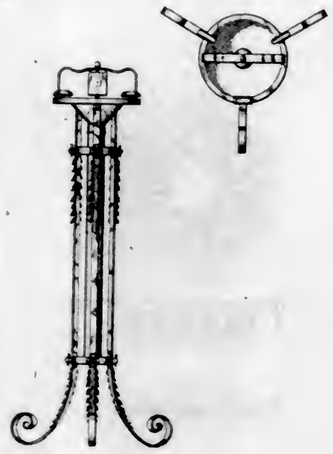
The ornamental design for a wall bracket electric fixture, as shown.

75,948. SMOKING STAND. SAMUEL YOUNG, San Francisco, Calif. Filed Apr. 18, 1928. Serial No. 26,370. Term of patent 7 years



The ornamental design for a smoking stand substantially as shown.

75,949. SMOKING STAND. SAMUEL YOUNG, San Francisco, Calif. Filed Apr. 18, 1928. Serial No. 26,371. Term of patent 7 years.

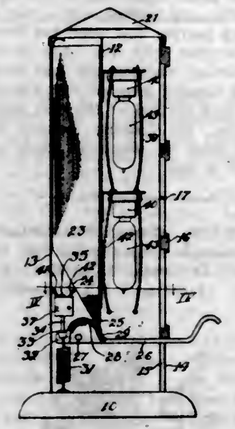


The ornamental design for a smoking stand substantially as shown.

PATENTS

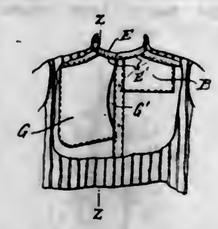
GRANTED JULY 31, 1928.

1,678,628. DISPENSING APPARATUS. CARL I. ANDERSON, Chicago, Ill. Filed Jan. 26, 1927. Serial No. 163,589. 2 Claims. (Cl. 312—84.)



1. An article vending machine comprising a pivoted lever having a cam-like curved surface merging into a tangential surface with a groove near the merging point, said groove being adapted to receive one article at a time, an article receptacle having an inwardly tapered back, the bottom edge of which rides on the cam-like surface of the lever, and a flat spring stop forming a movable closure for the front of said article receptacle, the bottom edge of said spring stop also riding on the lever surface in such a position that the groove in said lever passes back and forth under the stop during the lever movement, said cam like surface causing movement of both the receptacle and the stop to facilitate the rearrangement and feeding of the articles therein.

1,678,629. SHIRT FOR MEN'S WEAR. ALICE RUBY BENZ and FRANK M. ASHLEY, Brooklyn, N. Y. Filed Sept. 25, 1924. Serial No. 739,829. 1 Claim. (Cl. 2—122.)



A shirt having a bosom of soft material open at its front and having a front pleat, a neckband seam and a shoulder seam, a pocket of flexible material stitched along its top to the shirt by the shoulder seam and the neckband seam, said pocket being a substantially rectangular, elongated body open at its inner side and stitched at its upper and lower portions to the front pleat.

1,678,630. METHOD OF CONVERTING HYDROGEN SULPHIDE INTO SULPHUR DIOXIDE. HANS BÄHR, Chicago, Ill., assignor to I. G. Farbenindustria Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed May 4, 1925, Serial No. 28,018, and in Germany May 6, 1924. 7 Claims. (Cl. 23—177.)

1. The method of converting hydrogen sulphide of gases into sulphur dioxide for the purpose of purifying the gases by the employment of contact elements necessary for the oxidation, one of said elements embodying a mixture of metals having the property of binding sulphur, and an element embodying metals transmitting oxygen.

1,678,631. VEHICLE TIRE. JOHN BARKER, London, England. Filed July 15, 1927, Serial No. 205,905, and in Great Britain July 12, 1926. 1 Claim. (Cl. 152—1.)



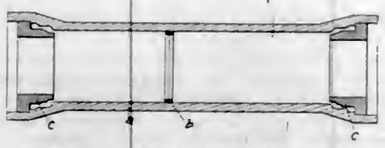
A solid tire for vehicles, provided with two series of transversely extending openings, the openings of one series being disposed alternately with those of the other series in a line passing through the tire concentrically with its axis of rotation, each opening of one series being of polygonal configuration and having oppositely disposed inwardly extending ribs and each opening of the other series having bays in opposite side walls thereof extending toward the ribs of the other series.

1,678,632. SCRAPPLE PACKAGE. FREDERICK BRIGGS, Washington, D. C., assignor to Briggs Packing Co., Washington, D. C., a Corporation of Delaware. Filed Oct. 11, 1926. Serial No. 140,932. 3 Claims. (Cl. 99—8.)



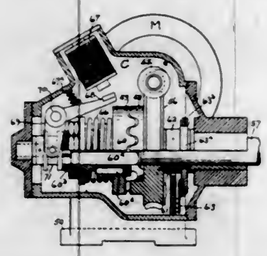
2. A new process for producing scrapple packages, consisting in stuffing the scrapple, while hot, in porous textile bags, the steam or vapor being permitted to escape, thus quickly cooling the scrapple, and then subsequently applying to the exterior surface of the bag a coating of air-impervious material.

1,678,633. CASTING PIPE. HEINRICH BURCHARTZ, Gelsenkirchen, Germany, assignor, by mesne assignments, to Centrifugal Pipe Corporation, a Corporation of Delaware. Filed Dec. 10, 1924, Serial No. 755,106, and in Germany Dec. 17, 1923. 3 Claims. (Cl. 22—65.)



1. A mold for centrifugally casting two bell-ended pipes in the same casting operation comprising a body, a bell cavity and core at each end of the body and a partition ring within the body intermediate its ends for dividing the two castings.

1,678,634. REMOTE-CONTROL SYSTEM. EDWARD F. CHANDLER, Brooklyn, N. Y. Filed June 21, 1923. Serial No. 646,749. 21 Claims. (Cl. 172—240.)



1. In a reversible device for operating valves and other apparatus, an operating shaft, a motor for driving said shaft, means connecting the shaft and motor and adapted to permit rotation of the motor when the said shaft has been driven to its limit of travel in either direction so as to avoid an undue strain on the motor and its associated parts, means for setting the device into operation in opposite directions and control means operable upon the starting of the motor for positively connecting the motor and shaft regardless of the direction of operation, to initiate rotation of the shaft positively.

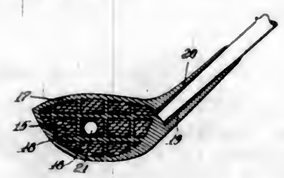
1,678,635. PLASTIC COMPOSITION AND METHOD OF PRODUCTION THEREOF. OSCAR A. CHERRY and CLETUS F. CHOSA, Milwaukee, Wis., assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed July 8, 1922. Serial No. 573,732. 6 Claims. (Cl. 106—22.)

1. The method of treating a molding composition comprising a relatively inert filler material impregnated with a binder, which comprises incorporation in said composition of small quantities of a halogen derivative of sulphur and a phenolic body adapted under the imposed conditions to react therewith for formation of additional binder material in situ.

1,678,636. METHOD OF TESTING NICOTINE SOLUTIONS. EDWIN COX, Richmond, Va., assignor to Tobacco By-Products and Chemical Corporation, Louisville, Ky., a Corporation of Delaware. Filed Jan. 30, 1925. Serial No. 5,901. 6 Claims. (Cl. 23—230.)

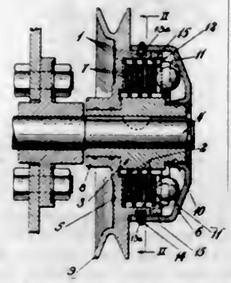
1. The process of determining the nicotine content of a solution containing nicotine and organic impurities such as occur in dipping baths which consists in acidifying the solution, adding tungsten trioxide in amount not less than sufficent to combine with all the said organic impurities and then directly titrating the said solution with silico-tungstic acid.

1,678,637. GOLF CLUB. CARL B. DREVITSON, Somerville, Mass. Filed June 30, 1927. Serial No. 202,607. 8 Claims. (Cl. 273—77.)



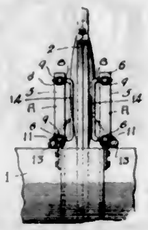
1. A golf-club head comprising a forming member having matrices within its surface, and a cast metal member including a body portion cast upon the forming member, ramifications integral with the body portion and cast within the matrices, whereby the cast member is interlocked with the forming member, and a shaft socket integral with the body portion of the cast member and projecting therefrom, the forming member being provided with a hooked tenon on which the inner end portion of the shaft socket is cast.

1,678,638. CLUTCH. GEORGE W. DUNHAM, Utica, N. Y., assignor to Savage Arms Corporation, Utica, N. Y., a Corporation of Delaware. Filed Nov. 14, 1924. Serial No. 749,869. 14 Claims. (Cl. 192—105.)



1. A clutch comprising sets of inter-registering driving and driven clutch discs, centrifugal clutch operating means, a pulley member and a cover, a hub member on which said pulley member, discs, clutch operating means and cover are adapted to be assembled manually to form therewith a self contained unit, the pulley member and cover housing the discs and clutch operating means.

1,678,639. SCRAPER FOR ROTARY FILTERS. ALBERT L. GENTER, Salt Lake City, Utah, assignor to United Filters Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 9, 1920. Serial No. 350,486. 3 Claims. (Cl. 210—201.)



1. In a rotary continuous filter, the combination of a filter element, of scraping means therefor comprising a support, a plurality of diagonally arranged scraping wires

attached to said support and conforming to the surface of the filter element, said wires being spaced apart and arranged in parallel relation and positioned to engage and remove the cake from the filter element.

1,678,640. FITTING FOR AIRCRAFT AND THE LIKE. CHARLES WARD HALL, Larchmont, N. Y. Filed July 2, 1924. Serial No. 723,672. 4 Claims. (Cl. 287—109.)



3. A structural joint of the character described comprising a thin-walled tube, an inner member fitted within the tube which has formed in its outer surface a circumferential depression with filleted edges providing thereat a bearing surface substantially polygonal in cross section, and an outer annulus which, after being slipped upon the tube and centered over the depression, has been compressed to deform both the annulus and the tube wall to the shape of the polygonal bearing surface of the inner member and thereby to hold the tube securely seated thereon.

1,678,641. PROCESS OF AND APPARATUS FOR CENTRIFUGAL CASTING. JOHANN HOLTHAUS, Gelsenkirchen, Germany, assignor, by mesne assignments, to Centrifugal Pipe Corporation, a Corporation of Delaware. Filed Aug. 25, 1925, Serial No. 52,385, and in Germany Oct. 22, 1924. 9 Claims. (Cl. 22—65.)

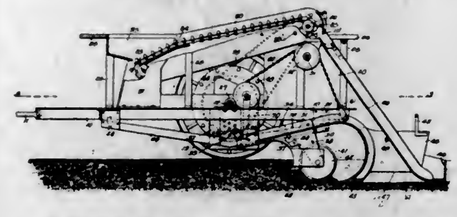
7. Apparatus for centrifugally casting hollow metal bodies, comprising a movable mold, a pouring spout extending into the mold, and a runway for the mold, the runway being shaped so as to reduce the angle of inclination of the mold as the latter is moved longitudinally from the spout.

1,678,642. CONTAINER FOR LEADS. CHARLES J. JOHNSON, Chicago, Ill., assignor to Swanberg Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 20, 1925. Serial No. 16,883. 1 Claim. (Cl. 206—44.)



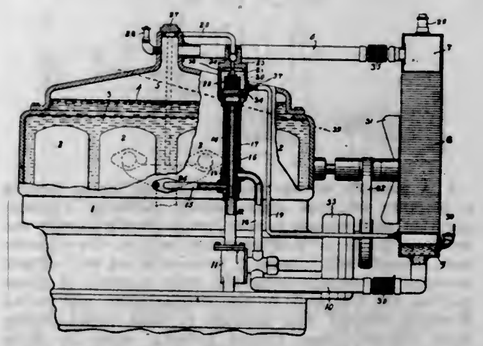
A container for leads consisting of a transparent holder open at one end thereof to receive and discharge leads, a casing around said holder having a slot through which the leads within the holder may be viewed without removing the holder from the casing, the said holder and casing being of cylindrical form permitting rotation of the holder within the casing, and a removable closure associated with the open end of the holder, said closure projecting substantially beyond the respective end of the casing and forming a handle for rotating a holder within the casing.

1,678,643. SUGAR-CANE PLANTER. WILLIAM KASSEBEER, Lihue, Territory of Hawaii. Filed Dec. 20, 1923. Serial No. 681,817. 1 Claim. (Cl. 111—5.)



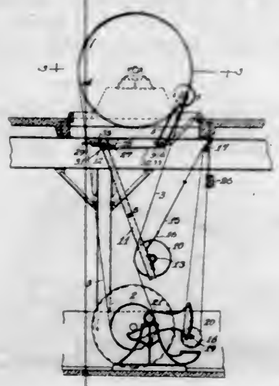
In a machine for planting sugar cane, furrow opening means, a conveyor upon which lengths of sugar cane stalks are adapted to be received in transverse relation thereto, a tiltable chute having a curved bottom at its lower end and straight walls into which said conveyor discharges said lengths of cane stalks, said chute having a rearwardly turned horizontal lower end adapted to be dragged in the base of the furrow, and resilient means contacting with said conveyor located at the point of discharge of said conveyor and adapted to engage the cane stalks whereby said cane stalks are caused to assume a position in longitudinal relation to the chute in which position the cane stalks are deposited in the open furrow.

1,678,644. COOLING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. HARRY C. MALLORY, Long Island City, N. Y.; Sue R. Mallory administratrix of said Harry C. Mallory, deceased. Filed Apr. 15, 1919. Serial No. 290,257. 19 Claims. (Cl. 123—174.)



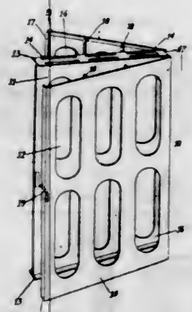
1. A circulating system for cooling an internal combustion engine, comprising a liquid containing cooling receptacle having a free vapor space above the liquid therein, a condensing space receiving vapor from said vapor space, a reservoir space into which liquid of condensation passes by gravity from said condensing space, a pump passing liquid from said reservoir space to said receptacle and a by-pass overflow connection about said pump for returning to the inlet side of the pump liquid passing through the latter in excess of that required to maintain a predetermined height of liquid level in said receptacle.

1,678,645. BELT TIGHTENER. HORACE C. MCEWEN, Iroquois Falls, Ontario, Canada. Filed Jan. 14, 1926. Serial No. 81,213. 7 Claims. (Cl. 64—5.)



1. The combination with a pulley and a belt for driving the pulley, of a belt tightener adapted to tension the belt, and a pivotal support for the tightener movable parallel with the axis of the pulley and also movable transversely with respect both to the axis of the pulley and the belt surface engaged by the tightener.

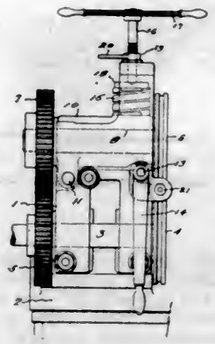
1,678,646. PORTABLE SAVINGS BANK. GORDON MILLER, New York, N. Y., assignor to Philip Florin, Woodmere, N. Y. Filed Jan. 8, 1927. Serial No. 159,777. 2 Claims. (Cl. 232—4.)



1. A portable savings bank comprising means forming a plurality of coin compartments including a single partition wall common to said compartments, unitary end members joined to said partition wall at the opposite ends thereof, each forming a transverse end wall of said plurality of compartments, side doors forming, in closed position, the side walls of said compartments and having inwardly directed wall portions at right angles thereto along opposite edges thereof forming, when the doors are in closed position, longitudinal end walls of said compartments, and means hingedly connecting said side doors to said partition wall.

1,678,647. ROLL FEED FOR METAL-HEADING MACHINES. JOHN E. PRACNY, Waterbury, Conn., assignor to The E. J. Manville Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed Apr. 6, 1927. Serial No. 181,341. 1 Claim. (Cl. 78—97.)

A roll feed mechanism comprising a bracket, a shaft having an attached feed roll and rotating gear mounted in the bracket, a pillow block pivotally attached to the bracket and carrying a shaft having an attached feed roll and rotating gear, a spring thrusting against the upper face of the pillow block adjacent to the feed roll carried thereby, a screw arranged to tension the spring

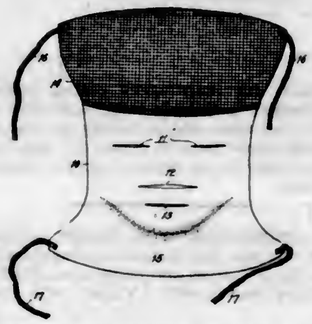


against the pillow block, a cam adapted to engage the under face of the pillow block adjacent to said feed roll, and a manually operated lever for turning the cam into and out of engagement with the pillow block.

1,678,648. EDIBLE-DYE COMPOSITION. HARRY H. REPLOGLE, Upper Montclair, N. J., assignor of one-half to John Young, Caldwell, N. J. Filed Jan. 8, 1923. Serial No. 611,514. 3 Claims. (Cl. 8—6.)

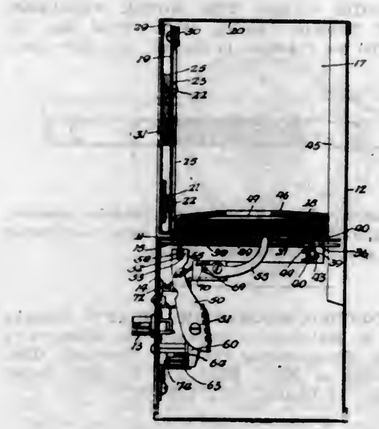
3. A method for coloring a food product which comprises admixing said food product with a coloring composition consisting of an edible organic coloring material dissolved in ethylene glycol.

1,678,649. FACE MASK. ANITA M. RENAULT, Chicago, Ill. Filed June 22, 1925. Serial No. 38,899. 1 Claim. (Cl. 128—163.)



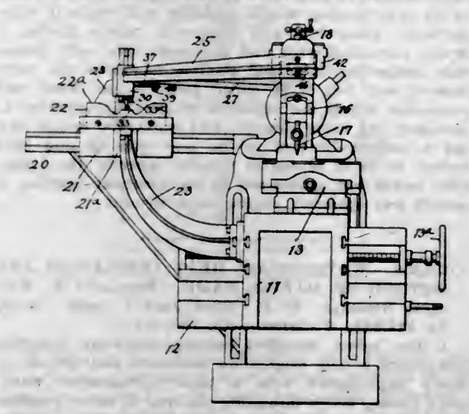
A face mask of the character described comprising a head portion of fabric wider at its top edge than at its bottom edge, a base member of water proof material wider at its lower edge than at its top edge, the top edge of said base member being attached to the lower edge of the head portion so that in use the head portion will extend over the forepart of the top of the head, said base member having slits therein positioned to register with the eyes, nose and mouth of the wearer and also having a bulging portion shaped to conform to the contour of the chin and neck of the wearer, downwardly extended ties secured to the upper corners of the head portion, and rearwardly extending ties secured to the lower corners of the base member, so that when the device is tied to the head of the wearer an equally distributed and regulated pressure is applied to the face, neck, throat and forehead of said wearer.

1,678,650. VENDING MACHINE. MYRON H. RICHARDSON and ALFRED D. ANTOINE, Chicago, Ill., assignors to Advance Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 19, 1926. Serial No. 102,882. 16 Claims. (Cl. 312—51.)



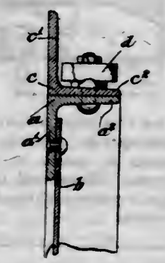
1. In a vending machine, a magazine for articles to be vended, said machine having a delivery opening, a plurality of loosely mounted members spaced from each other in directions lengthwise of and projecting across said opening and freely and separately movable transversely thereof, a support for the said members, means for adjusting the support, and means for ejecting an article through the said delivery opening and beneath the said members.

1,678,651. PROFILING ATTACHMENT FOR MACHINE TOOLS. JOHN M. RIORDAN, East Cleveland, Ohio, assignor to The Cleveland Hardware Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 22, 1922. Serial No. 545,637. 17 Claims. (Cl. 90—38.)



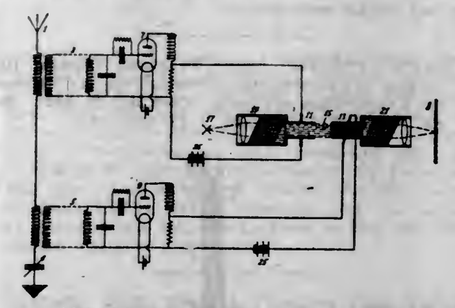
1. In combination with a machine tool having relatively movable work and tool holders and means for imparting travel to one holder in a definite path with respect to the other, a profiling attachment comprising a templet and a tracer cooperating therewith, means for constraining the templet and tracer, one to movements in a single plane and the other to movements in the same plane, means for imparting to the holders two relative feed movements in directions angular to each other and to said path of travel and for moving the templet and tracer, and means for maintaining said feed movements proportional, one to the movements of the templet, and the other to the movements of the tracer.

1,678,652. FIREPROOF ELEVATOR DOOR. PAUL R. SAURER, New York, N. Y., assignor to The Peelle Company, Brooklyn, N. Y., a Corporation of New York. Filed June 30, 1926. Serial No. 119,637. 4 Claims. (Cl. 189—46.)



1. A fireproof elevator door, embodying therein a door section having a metal panel in an angle metal frame, and means for preventing the top of the door from moving away from adjacent the lintel of a door opening in the event of a sudden lowering of the temperature of the door following its subjection to a high temperature, including therein an angle metal reinforcing bar, one flange of which is connected with the horizontal flange of the angle metal of the top bar of the frame to form a unitary top bar structure, and another flange of which extends at right angles to the said flange of the angle of the top bar of the frame

1,678,653. SYSTEM FOR REDUCING STATIC DISTURBANCES. FRITZ SCHRÖTER, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed May 13, 1926, Serial No. 108,910, and in Germany May 23, 1925. 6 Claims. (Cl. 250—20.)

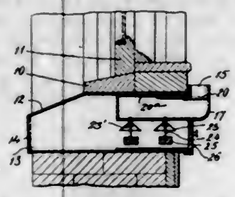


1. A high frequency receiving system comprising an input having two detector circuits coupled thereto, a source of light, a light responsive means, a pair of light affecting devices comprising a polarizer and an analyzer between said light source and said light responsive means and a pair of Kerr cells serially arranged between said light affecting devices each of said Kerr cells being connected to one of said detector circuits.

1,678,654. VENTILATING DEVICE. GEORGE R. SIEFKEN, New York, N. Y. Filed June 3, 1926. Serial No. 113,436. 2 Claims. (Cl. 98—95.)

1. A ventilator for admitting air into a room comprising a chamber having an opening for admitting air from outside the room, a diffusion chamber having sub-

stantially horizontal and vertical connecting passageways, the vertical passageway opening into the room, the lower wall of the horizontal passageway having an opening through which air from the first named chamber may be admitted to said diffusion chamber, automatic means for controlling the flow of air through said opening, said



opening being located at a point beneath the upper wall of the horizontal passageway whereby the air passing through said opening is caused to impinge upon said upper wall and become diffused and have its direction of travel changed before passing through the vertical passageway into the room.

1,678,655. PRODUCTION OF IRON CASTINGS. KARL SIPP, Mannheim, Germany, assignor, by mesne assignments, to Heinrich Lanz Aktiengesellschaft, Mannheim, Baden, Germany, a Corporation of Germany. Filed Nov. 3, 1925, Serial No. 66,462, and in Germany Nov. 30, 1924. 2 Claims. (Cl. 22—200.)



1. The method of producing gray iron castings in shapes of widely varying sections having a substantially uniform structure and hardness throughout, which consists in casting with a mixture adjusted to produce under normal cooling conditions a workable gray iron in one of its thick sections and in retarding the cooling of the metal in the thinner sections and hastening its cooling in any thicker sections.

1,678,656. PENCIL. JULIUS SWANBERG, Chicago, Ill., assignor to Swanberg Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 23, 1921. Serial No. 471,537. 1 Claim. (Cl. 120—18.)



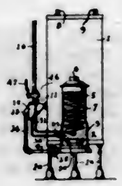
A pencil, comprising an outer casing having a conical tip and a slotted internally beaded top, a lead guiding tube extending the length of said casing and swivelly held against relative axial movement in the conical tip thereof and a closure member resiliently held for relative rotation by said internally beaded top and in frictional non-rotative engagement with the end of said lead guiding tube.

1,678,657. SIDE GUARD FOR MOTOR VEHICLES. HORACE T. THOMAS, Lansing, Mich. Filed May 19, 1924. Serial No. 714,507. 11 Claims. (Cl. 280—164.)



1. In a motor vehicle, a resiliently yieldable member, including a plurality of resilient curved bars, constituting a combined running board and bumper.

1,678,658. CONTROL MECHANISM. MILEY W. THOMAS and PAUL H. HAMILTON, Cleveland, Ohio, assignors to The Sands Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 6, 1925. Serial No. 21,164. 14 Claims. (Cl. 236—21.)



1. In apparatus of the class described, the combination with a heating means having a supply pipe for its combustion medium, of a cut off valve in said supply pipe, a pilot burner for igniting said heating means, a thermostat mechanism operatively connected with the valve element of said valve and having an element affected by said heating means, whereby said valve is automatically controlled, and expansible means having a device associated with and arranged when said expansible means are in normal position to engage the valve element and lock it in closed position, but when said expansible means are expanded to abnormal position to disengage the valve element, said expansible means having a portion disposed in the heat zone of said pilot burner so as to be heated thereby, whereby the expansible means are maintained in an abnormal position to permit free operation of the valve element.

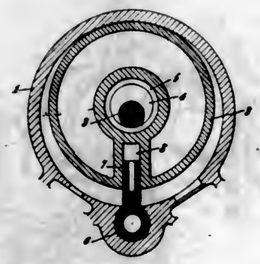
1,678,659. WATERPROOF HEAT INSULATION AND METHOD OF MAKING SAME. BENJAMIN F. WALLACE, Brooklyn, N. Y. Filed June 7, 1924. Serial No. 718,553. 7 Claims. (Cl. 106—18.)

1. The herein described heating insulating materials comprising porous magnesium carbonate and fibrous asbestos impregnated with a highly penetrative waterproof grease, which insulating material is water repellent and will readily float on water.

1,678,660. ROTARY COMPRESSOR. HERMANN WEBER, Spiez, Switzerland. Filed Apr. 6, 1927, Serial No. 181,389, and in Switzerland Nov. 23, 1926. 1 Claim. (Cl. 230—147.)

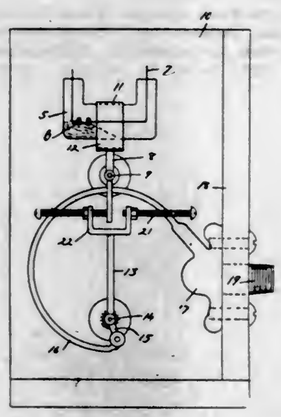
A rotary compressor comprising in combination a cylindrical housing, a cylindrical piston having a radial recess rotatably mounted eccentrically therein, whereby

a working chamber is provided between the housing and piston, a cylindrical boss journaled parallel with the longitudinal axis of the housing, in the wall of the latter, which boss has in its periphery a dovetailed groove extending in the direction of its length, and



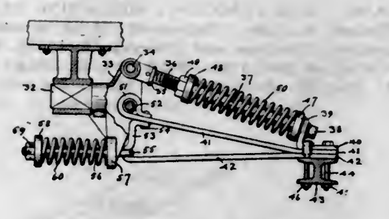
a sliding abutment that extends fluid-tight at one end into said recess and has at its other end a tongue that fits fluid-tight in said groove, which abutment divides said working chamber into a compression space and a suction space, which spaces are provided each with a port in the wall of the housing.

1,678,661. ELECTRICAL MERCURY CONTROL FOR REFRIGERATION PUMPS. THOMAS C. WHITEHEAD, Detroit, Mich. Filed Oct. 22, 1923. Serial No. 670,217. 2 Claims. (Cl. 200—81.)



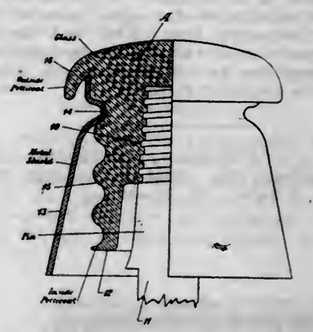
1. In a device of the character described, the combination of a support, a lever pivotally mounted on said support, one end of the said lever being bifurcated, a flexible tube secured to the other end of the said lever, the said tube constituting a pressure responsive device for actuating the said lever, a second lever, pivoted to said support, one end of the said second lever extending between the furcations of the said first mentioned lever, a resilient clip on the other end of the said second lever, a container carried by said clip, electric terminals within the said container, and a liquid within the said container adapted to electrically connect or disconnect the said terminals upon a predetermined movement of said pressure responsive tube.

1,678,662. VEHICLE SPRING. EDGARTON B. WILSON, Peterboro, Ontario, Canada, and SUMNER S. SHEARS, Brooklyn, N. Y.; said Wilson assignor to said Shears. Filed June 1, 1922. Serial No. 565,100. 12 Claims. (Cl. 267—20.)



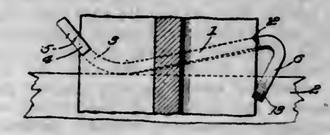
1. Vehicle spring arrangements of the class described comprising bell-crank levers pivotally fulcrumed on the vehicle frame, flexibly secured rods, brackets depending from the frame and coil springs adjustably applied on said rods in such manner as to provide a substantial leverage ratio against the coils.

1,678,663. INSULATOR. LEON T. WILSON, East Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 1, 1925. Serial No. 40,917. 2 Claims. (Cl. 173—28.)



1. An insulator comprising a body of dielectric material having an inner opening into which a supporting pin may be inserted, a petticoat extending downwardly from said body and surrounding the supporting pin, the outer surfaces of said dielectric body and petticoat being screw-threaded, an outer conductive shell constricted at its upper portion so that it may be screwed into place over said screw threads, said shell having its lower part extending outwardly from the surface of said dielectric body and petticoat so that said outer surface will form a dry path.

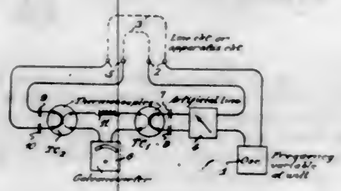
1,678,664. RAIL ANCHOR. CHARLES FIELD YARDLEY, Larchmont, N. Y. Filed Apr. 20, 1927. Serial No. 185,084. 15 Claims. (Cl. 238—330.)



14. A rail anchor comprising a bar and jaws thereon adapted to engage the flanges at the opposite sides of a rail and adapted for gripping the rail flange under

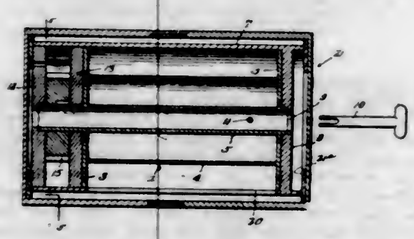
resilient torsional deflection of the bar, said bar having a portion thereof deformed to limit the resilient deflection to a reduced length of the bar body, substantially as described.

1,678,665. HIGH-FREQUENCY MEASURING SYSTEM. HERMAN A. AFFEL, Maplewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 21, 1924. Serial No. 751,405. 3 Claims. (Cl. 179—175.)



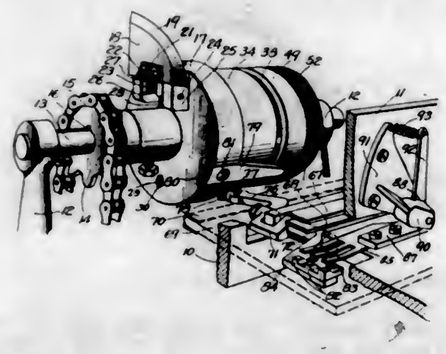
1. In a gain measuring system, the combination with an amplifier of a source of high frequency current, means to control the magnitude of the current supplied to the said amplifier, thermo-couples connected with the input and the output sides of the said amplifier, the direct current sides of the said couples being connected in polar opposition in a circuit having a current indicating device connected therewith.

1,678,666. AUTOMOBILE ABSTRACT. CLIFFTON BIAD, Hardesty, Okla. Filed Dec. 14, 1926. Serial No. 154,747. 1 Claim. (Cl. 40—19.)



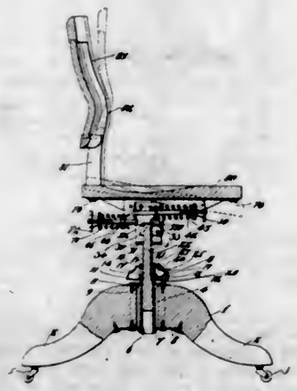
As a new article of manufacture, an automobile abstract of the class described, comprising a hollow cylindrical casing open at one end, the opposite end of the casing being provided with a central bearing opening, a drum mounted for rotation in said casing and including a pair of disk like heads, connected together by a hollow central shaft having its ends extending beyond the heads, one extending end being journaled for rotation in the aforesaid bearing openings, a pawl and ratchet mechanism fitted into the open end of the casing and embodying spaced parallel circular plates connected together and provided at their centers with bearings receiving the remaining extended portions of said shaft, the ratchet wheel carried by said last- extended end portion of the shaft being located between said plates, a spring pressed pawl associated with said plates, and engageable with said ratchet wheel, and a sectional housing enclosing said casing and ratchet mechanism.

1,678,667. CUT-OFF MECHANISM FOR STRIPPING MACHINES. EDWARD M. BRACKETT and FRED M. BRACKETT, Topeka, Kans. Filed May 20, 1926. Serial No. 110,578. 13 Claims. (Cl. 164—60.)



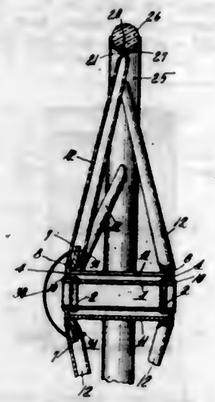
7. In a machine of the character described, bearing members, a shaft mounted thereon, a cutter member rotatably mounted thereon and means for adjusting said cutter member relatively to the work comprising a member secured in fixed position on said shaft and connected with said cutter member and adjustable means on one of said bearings engaging said last mentioned member to move said shaft axially in its bearings.

1,678,668. TILTING CHAIR. DAVID R. COLLIER, Gardner, Mass., assignor to Collier-Keyworth Company, Gardner, Mass., a Corporation of Massachusetts. Filed June 2, 1923. Serial No. 642,900. 13 Claims. (Cl. 155—77.)



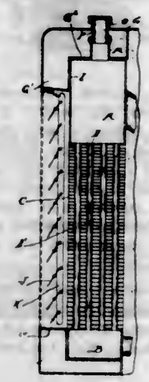
1. A chair having a seat, a spindle for supporting said seat, and pivoted about a pair of axes thereto, means permitting said seat to be tilted forwardly from a central portion about one of said pivots only, and means for permitting said seat to be tilted rearwardly about the other of said pivots only.

1,678,669. WHEEL. DAVID R. COLLIER, Gardner, Mass., assignor to Collier-Keyworth Company, Gardner, Mass., a Corporation of Massachusetts. Filed Dec. 14, 1923. Serial No. 680,626. 7 Claims. (Cl. 301—5.)



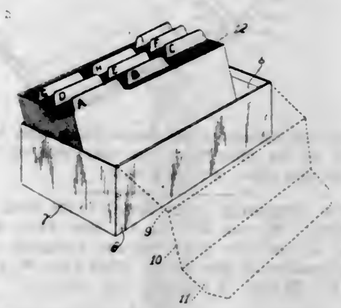
1. A wheel comprising a hub plate consisting of a disk having a series of radially extending ears thereon, and spokes comprising tubular members having their inner ends engageable over said ears.

1,678,670. RADIATOR ATTACHMENT. HOWARD H. CRAWFORD, Detroit, Mich., assignor to Detroit Motor Appliance Company, Detroit, Mich., a Corporation of Michigan. Filed July 3, 1916, Serial No. 107,421. Renewed Apr. 11, 1928. 2 Claims. (Cl. 257—125.)



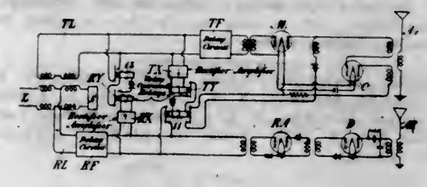
2. In heat radiating means for the water cooling system of an automobile engine the combination of an inlet header and inlet pipe connection therefor communicating with said header at a substantial distance below the top thereof, a discharge header spaced from said inlet header, heat radiating water passages of relatively small cross section directly connecting said inlet and discharge headers, an upper chamber above and in communication with said inlet and discharge headers, the said upper chamber communicating with said discharge header entirely independently of said radiating water passages, a discharge connection communicating with said discharge header at a point adjacent the bottom of said heat radiating means, and a filler tube extending upwardly from said upper chamber.

1,678,671. COMBINATION CARD CONTAINER AND TRAY. DAVID W. DUFFIELD, Rochester, N. Y., assignor to Yawman & Erbe Manufacturing Co., Rochester, N. Y., a Corporation of New York. Filed May 29, 1926. Serial No. 112,440. 4 Claims. (Cl. 129—16.)



4. In combination a structure adapted to be used as a card container or a tray, cards adapted to be carried by said container or held in said tray, and means including hinged sections for alternately serving as a cover for the box or as bottom and end supports for the card tray.

1,678,672. TWO-WAY RADIO TELEPHONE SYSTEM. LLOYD ESPENSCHIED, Hollis, HERMAN A. AFFEL, Brooklyn, and CLIFFORD N. ANDERSON, New York, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 19, 1924, Serial No. 707,720. Renewed Sept. 2, 1926. 20 Claims. (Cl. 250—9.)

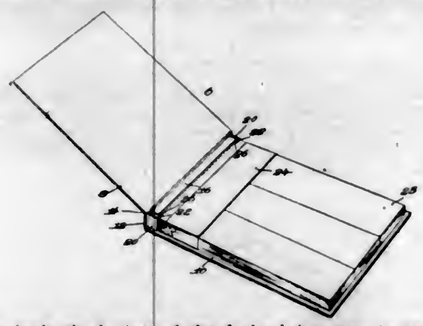


1. In a radio system, a radio transmitting channel and a radio receiving channel, radio transmitting apparatus in said transmitting channel and radio receiving apparatus in said receiving channel, said receiving channel being normally operatively conditioned to function for receiving purposes, a transmitting antenna normally conditioned to have signal modulated energy applied thereto by said transmitting channel, a voice responsive relay associated with said transmitting channel and responsive to voice currents to disable said receiving channel, and a delay circuit interposed between said voice responsive relay and said radio transmitting apparatus to enable said relay to perform its function before the voice currents are impressed upon said transmitting apparatus.

1,678,673. BOOK. JOHN A. DYKEMAN, Boston, Mass. Filed May 13, 1926. Serial No. 108,804. 4 Claims. (Cl. 281—19.)

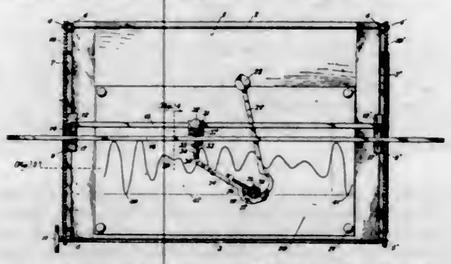
4. A cover for replaceable fillers having a back, and front and rear cover portions hinged thereto, a filler-retaining device secured to the back of the cover, said de-

vice comprising means engaging the edges and top of the filler to prevent removal of the same from the front of



the book, the bottom of the device being open to permit removal of the filler from the rear side of the book when the rear cover is turned back.

1,678,674. METHOD AND APPARATUS FOR COMPUTATION. WALTER KOENIG, Jr., New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 30, 1925. Serial No. 78,470. 3 Claims. (Cl. 235—61.)



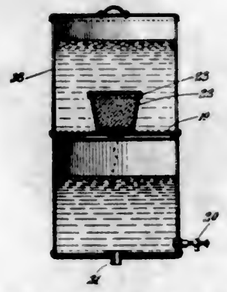
1. A harmonic analyzer comprising a board adapted to receive an impression of the curve to be analyzed, a planimeter on the board, a bar across the board parallel with the curve axis, means to move the bar transversely of its length, and a slider on the bar engaging the planimeter tracing stylus.

1,678,675. MARKING-TICKET STRIP. FREDERICK W. LAENCHER, Elmhurst, N. Y., assignor to A. Kimball Company, New York, N. Y., a Corporation of New York. Filed Sept. 8, 1927. Serial No. 218,330. 4 Claims. (Cl. 40—2.)



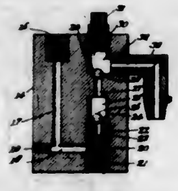
1. An integral marking ticket strip comprising a plurality of similar ticket sections progressively and uniformly offset laterally with the connected transverse edge portions of the successive sections materially shorter than the transverse edges of the said sections.

1,678,676. PURIFICATION OF LIQUIDS. GEORGE CHARLES LEWIS, New Dorp, N. Y., assignor to Darco Sales Corporation, New York, N. Y., a Corporation of Delaware. Original application filed May 5, 1925, Serial No. 28,047. Divided and this application filed May 13, 1926. Serial No. 108,770. 2 Claims. (Cl. 210—205.)



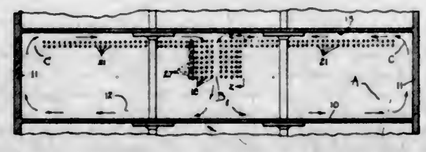
1. A process of making a filtering medium which consists in forming a container of ceramic material, filling the same with an organic char, and burning the container with said char therein to render the wall porous and simultaneously increase the activity of the char.

1,678,677. ATTACHMENT FOR HYDRAULIC BRAKE SYSTEMS. MARK H. MASSUERE, Hollywood, Calif. Filed Mar. 5, 1927. Serial No. 173,188. 5 Claims. (Cl. 303—48.)



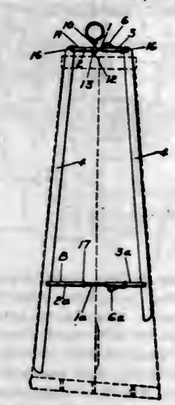
1. A fluid braking system replenishing attachment to be interposed between the source of fluid supply and the brake system including a body having a continuous passage for the conduct of the replenishing fluid, such passage being formed of substantially U-shape, companion check valves disposed in the rising leg of the U-shaped passage, one above another and opening freely upward and automatically closing downward, a large valve chamber above the upper check valve, and an air drain means for said valve chamber.

1,678,678. REFRIGERATING AND AIR-CIRCULATING SYSTEM. CHARLES A. MOORE, Edina, Minn. Filed May 1, 1926. Serial No. 106,143. 4 Claims. (Cl. 62—99.)



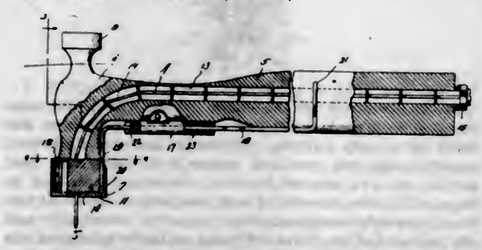
1. The combination with a chamber, of main stringers hung from the ceiling and traversing said chamber, an assembly of hangers depending from said main stringer in arrangement medially and longitudinally of the chamber, a relatively deep assembly of banked reaches of pipe, the upper reaches of said banks being supported on said main stringer, the lower reaches thereof being supported by said hangers, sub-stringers hung from the main stringer at either side of said pipe assembly, a relatively shallow assembly of banked reaches of pipe at either side of the deep assembly, each shallow assembly including upper reaches of pipe supported by said main stringer and lower reaches of pipe supported by said sub-stringers, each shallow assembly of pipes falling short at its outer extremity of the adjacent side wall of the chamber, and means for conducting a refrigerant to and from said pipe assemblies.

1,678,679. TROUSERS HANGER. CARL G. NELSON, Pittsburgh, Pa.; Hulda C. Nelson executrix of said Carl G. Nelson, deceased. Filed July 15, 1925. Serial No. 43,800. 1 Claim. (Cl. 223—19.)



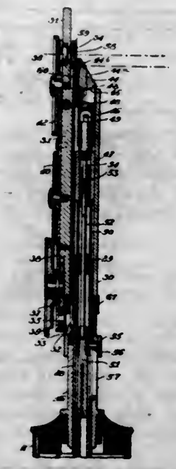
In a trousers hanger, a pair of vertically extending side members, upper and lower cross members, each cross member comprising end sections and an intermediate section adjustably telescoped at opposite ends in the end sections, means pivotally connecting the end sections to the side members, a locking member carried by an end section of each cross member to adjustably secure the intermediate sections therein, and connecting members for the remaining end members and intermediate members, the connecting member of the uppermost cross member constituting a suspending means.

1,678,680. MAGAZINE HAMMER. GEORGE PATTON, Bicknell, Ind. Filed Aug. 8, 1927. Serial No. 211,508. 3 Claims. (Cl. 1—45.)



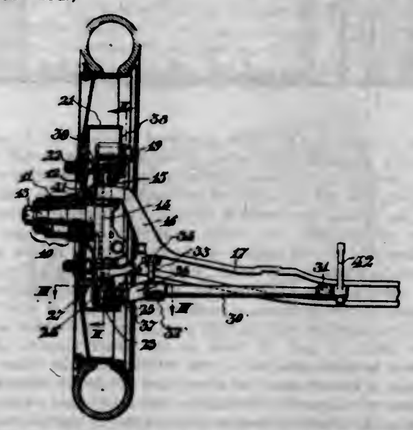
2. In a magazine hammer of the character described, a handle, a head arranged upon one end of the handle, a short slot in one end of the head, a block slidable within said slot, said handle and head being provided with communicating bores, the said bore terminating at the top of said slot and said handle bore extending throughout the length of the handle and through which the nails or tacks are to be fed, said block having an opening extending vertically thru the same and adapted to register with the head bore when the same is slid to one position within the slot, means for detachably securing one nail or tack to the head directly beneath the block when the same is in opposite position so that said nail or tack may be driven into the work, said securing means being of such a construction, as to shake loose from the tacks under the impact of the hammer against the work.

1,678,681. OPHTHALMOSCOPE. MAX POSER, Rochester, N. Y., assignor to Bausch & Lomb Optical Co., Rochester, N. Y., a Corporation of New York. Filed June 20, 1923. Serial No. 646,578. 3 Claims. (Cl. 88—20.)



3. In an ophthalmoscope, a holder, a plate upon the holder having a viewing aperture therein, a source of white light upon the holder, means for condensing and projecting the light upon the retina of the eye, and a light filter for absorbing red light rays mounted upon the holder to occupy a position between the aperture and the eye under observation whereby the latter may be illuminated with a white light and at the same time viewed through a red absorbing light filter.

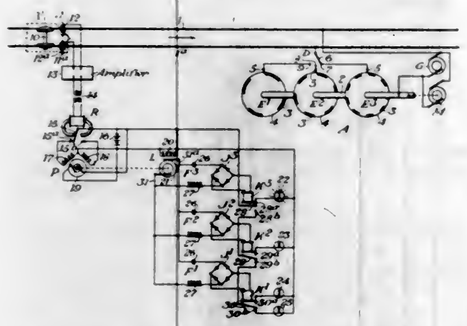
1,678,682. BRAKE MECHANISM. JOHN W. SMITH, Philadelphia, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 26, 1922. Serial No. 590,565. 16 Claims. (Cl. 188—194.)



1. In combination, a steering knuckle, axle and brake mechanism, a pair of relatively rotatable members movable in unison relative to the axis of oscillation of the steering

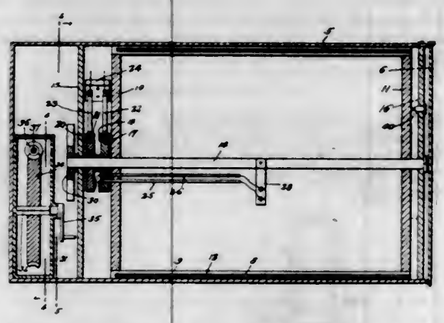
knuckle, means operating upon one member to effect floating movement thereof, and means operable by the other member to apply the brake mechanism.

1,678,683. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. CLARENCE S. SNAVELY, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Apr. 8, 1927. Serial No. 181,987. 15 Claims. Cl. 246—63.)



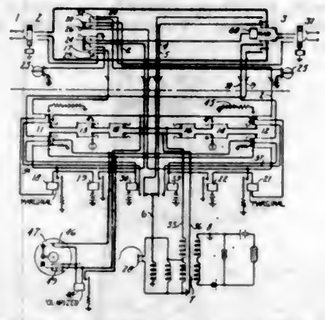
1. In combination, a source of current, means for periodically interrupting such current, means responsive to such interruptions for crating an alternating current the frequency of which is different from, but proportional to, the frequency of such interruptions, and means selectively responsive to the frequency of such alternating current.

1,678,684. CHANGEABLE SIGN. MARION R. THROWER, Tuckerman, Ark., assignor to D. R. Parrott, Tuckerman, Ark. Filed Apr. 18, 1927. Serial No. 184,650. 1 Claim. (Cl. 40—77.)



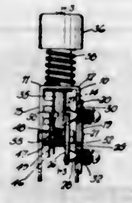
A device of the class described comprising a casing having a closed end and an open end, and provided with an opening in the side wall thereof, a closure removably engaged on the open end of the casing, partitions disposed in the casing transversely thereof, one relatively close to the closure and the other relatively remote from the closed end of the casing, a shaft journaled in the partitions, a drum on the shaft, said drum having a plurality of openings, a plurality of signs bearing transparent panels in the openings, a bracket on the shaft in the drum, an incandescent electric bulb carried by the bracket within the drum, a pair of discs on the shaft outside of the drum between one end of the drum and said other partition, a continuous conductor band on one of the discs, a plurality of spaced contacts on the other disc electrically connected together, means for electrically connecting the conductors on the discs with the incandescent bulb, brushes engageable with the conductors, a star wheel on the shaft between said closed end of the casing and said other partition, a housing within the casing at said closed end thereof, a rotatable shaft journaled in the housing, and a crank on the last mentioned shaft engageable with the star wheel for imparting an intermittent rotation to the first shaft and the drum thereon when the second shaft is in operation.

1,678,685. TELEPHONE SIGNAL SYSTEM. JOHN F. TOOMEY, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 13, 1925. Serial No. 22,821. 6 Claims. (Cl. 179—27.)



1. In a telephone system, lines, a plurality of cord circuits each including a talking key, an operator's telephone set and means common to said cord circuits for testing for the idle or busy condition of any one of said lines from either plug of any one of said cord circuits, means for appropriating said common testing means for the use of a cord circuit on the operation of the corresponding talking key, and means for connecting the operator's telephone set to said cord when the common testing means has been appropriated by said cord responsive to the connection of the cord with an idle line.

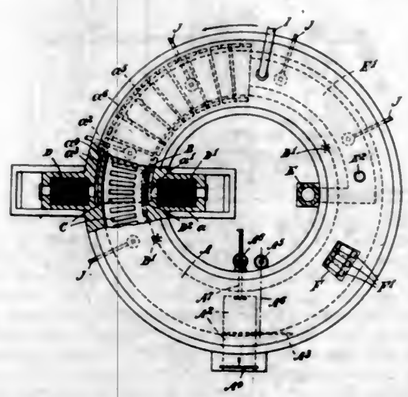
1,678,686. LIGHT-DIMMING SWITCH. ROBERT K. WINNING, Wauwatosa, Wis., assignor to Clum Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed May 19, 1927. Serial No. 192,519. 13 Claims. (Cl. 200—160.)



12. In a device of the character described, the combination with a contactor movable between successive stations in a step by step movement and provided with spaced projecting contacts mutually in electrical connection, of two sets of terminal contacts adapted to be engaged by the contacts of said contactor, one set of terminal contacts being mutually connected electrically and the contacts of the other set being mutually insulated and so positioned that one or the other thereof is alternatively in circuit with the terminal contacts of said first mentioned set at each stationary position of said contactor.

1,678,687. APPARATUS FOR CARBONIZATION. CHARLES BURTON WINZER, Balham, London, England. Filed Dec. 21, 1925, Serial No. 76,757, and in Great Britain Jan. 14, 1925. 3 Claims. (Cl. 202—9.)

1. In a carbonizing apparatus, a closed, horizontally elongated chamber having a pathway therethrough for material to be carbonized; said chamber being provided with a flue system comprising a plurality of U-shaped flues, each of which has its middle portion formed in the bottom wall of the chamber and its limbs formed vertically in the opposite side walls of said chamber respectively, said flues being connected in series; and a furnace for supplying hot gases of combustion to said flue system at one end thereof so as to travel in series therethrough.



2. Carbonizing apparatus, comprising a closed annular chamber having a vertical axis, the floor of said chamber having an aperture therethrough extending across the same; means for heating said chamber; an annular horizontal platform rotatably disposed within said chamber and spaced above the floor thereof; and a succession of vertically-elongated carriers mounted in said platform to contain material to be carbonized, said carries projecting below the platform and having hinged closures at their lower ends provided with supporting rollers which are adapted to travel along the floor of the chamber and thereby hold said closures in closed position and which allow each closure to open automatically when the same is above said aperture so as to discharge the carbonized contents of the respective carriers.

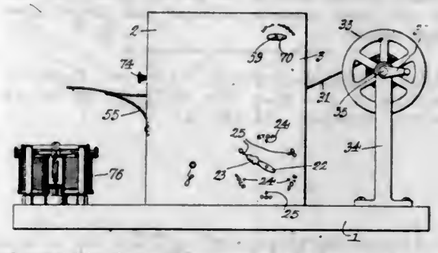
1,678,688. WINDSHIELD WIPER. LOUIS ZAIGER, Lynn, Mass. Filed Mar. 12, 1928. Serial No. 261,017. 3 Claims. (Cl. 15—255.)



1. A windshield wiper comprising a U-shaped backing member, flexible wiping strips mounted in said member and projecting beyond the edges thereof, a flexible spacer interposed between said wiping strips and spacing them from each other, said spacer projecting beyond the edges of said backing member and terminating short of the edges of said wiping strips, said spacer being of a sufficient thickness to maintain independence between said wiping strips whereby an advancing wiping strip will perform the main wiping operation while the following wiping strip will bear lightly against the windshield to perform a final wiping operation.

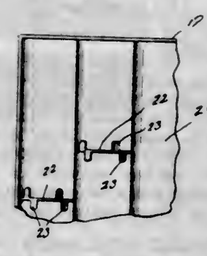
1,678,689. INSTRUCTING DEVICE. MARCELLO CENTORRINO, New York, N. Y. Filed May 2, 1927. Serial No. 188,190. 6 Claims. (Cl. 178—115.)

1. In a device of the class described, a record having telegraphic code signals thereon; a feeding mechanism for the record; a driving mechanism operatively connected with the said feeding mechanism; a governor for controlling the speed of the driving mechanism, said governor comprising a pivoted frame, a shaft journaled therein, a pinion mounted on the shaft so as to be rotated by the driving mechanism and a fan secured to the said shaft



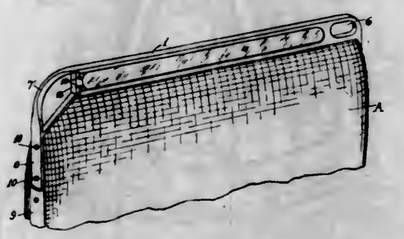
and rotatable therewith to control the speed thereof; a pivoted stop lever engaged at one end by a pin on the pivoted governor frame and by an abutment on the driving mechanism at its other end when the said pivoted frame is rotated and means for reproducing telegraphic code signals.

1,678,690. BAKING DEVICE. JAMES FRANCIS CONNELL, Lincoln, Nebr. Filed June 24, 1927. Serial No. 201,165. 1 Claim. (Cl. 53—10.)



In a structure of the class described, a base, a baking device hingedly mounted on said base, said baking device being composed of duplicate hingedly connected superimposed sections, said sections being formed with removable baking units, said baking units being grooved to provide individual compartments, together with individual partition elements receivable in said grooves for making objects of different sizes.

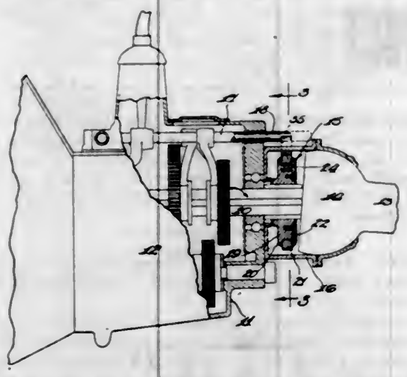
1,678,691. ADVERTISEMENT HOLDER. FRANCISCO DE LA CUESTA, MANUEL MARIA DE LA CUESTA, JUSTO PARAPAR, and SANTIAGO FALS, Habana, Cuba. Filed Feb. 26, 1927, Serial No. 171,256, and in Cuba Feb. 12, 1927. 1 Claim. (Cl. 40—125.)



A device of the character described comprising an advertising attachment for seat backs, a frame including upper and lower parallel spaced elongated members, the upper member having its end portions turned downwardly and laterally thereto, the lower member being shaped to conform to the top edge of the seat back, and having one end portion thereof turned downwardly for a distance

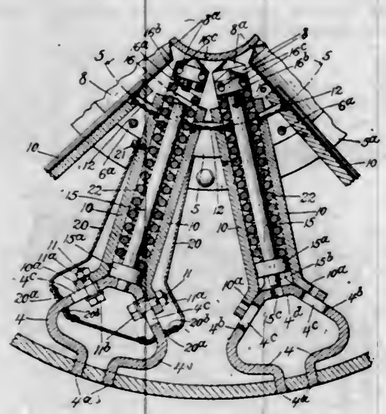
and spaced from the downwardly turned portion of the upper member, but having its extremity connected thereto, the frame members having inwardly directed flanges on their parallel portions forming channels for embracing the sides and ends of an advertising card, and a block detachably secured between the parallel portions of said upper and lower members adjacent said turned down portions thereof.

1,678,692. BRAKE DEVICE. ANTHONY DOMENICO, Brooklyn, N. Y. Filed July 18, 1927. Serial No. 206,754. 3 Claims. (Cl. 192—4.)



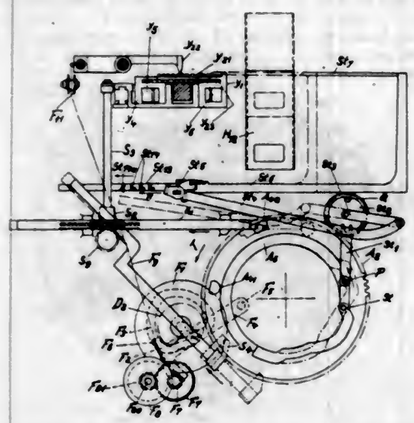
2. In combination with a rotatable part, a rotor keyed thereto, a ring freely encircling said rotor, a shoe engageable with said ring, manually operated means for holding said shoe in engagement with said ring, locking means carried by said shoe and engaging said ring for locking the latter against rotation in one direction, and automatic locking means between said rotor and said ring for locking the former against rotation in the same direction.

1,678,693. SPRING WHEEL. JOHN R. EAID, Chicago, Ill., assignor to The Peoples Trust and Savings Bank of Chicago, trustee. Filed June 11, 1923. Serial No. 644,578. 10 Claims. (Cl. 152—48.)



1. A wheel comprising a hub and a rim, a series of spoke members intermediate said rim and hub, a spring surrounding each said spoke member and adapted to be compressed by the movement of the hub toward the portion of the rim adjacent said spoke members, and a flexible guide about said spring connecting at one end with said hub.

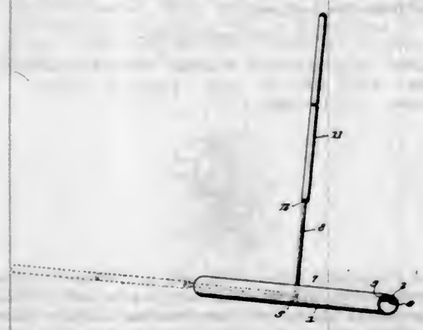
1,678,694. METHOD AND APPARATUS FOR THE ALIGNING OF TYPE CARRIERS. ARNOLD AUGUST EGLI, Hamburg, Germany, assignor to Chocolat Tobler Holding Co. Aktiengesellschaft, Schaffhausen, Switzerland. Filed Mar. 25, 1926, Serial No. 97,302, and in Germany Apr. 2, 1925. 17 Claims. (Cl. 101—93.)



1. The art of aligning type carriers, which comprises restricting the movability, aligning the type carriers while so restricted and then locking the carriers after they have been aligned.

3. In a type setting machine, type carriers forming a line of type, means compressing the carriers to restrict their movability, means for aligning the carriers and means for locking the carriers after they have been aligned.

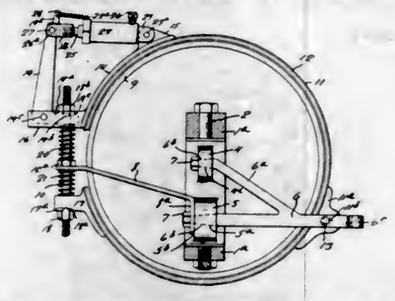
1,678,695. SAND-GREEN SCRAPER. JOSEPH W. FERGUSON, Pawhuska, Okla. Filed Aug. 4, 1927. Serial No. 210,690. 5 Claims. (Cl. 55—10.)



1. A sand green scraper comprising a hollow tubular member provided with an opening extending from end to end along one side thereof, and a handle attached to the scraper and adapted to fold through the opening in the scraper and lie in the same plane therewith.

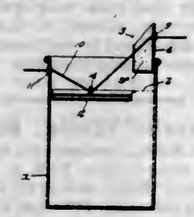
5. A sand green scraper comprising a hollow tubular member split from end to end at one side thereof and having sand retaining flanges thereon at the edges adjacent the opening, a stud secured to the scraping member and extending toward and in alignment with the said opening, a handle extending through said opening and pivotally engaging said stud, whereby the handle may be swung to folded position, and a sleeve slidable on the handle and adapted to slide into the tube and over the pivotal joint between the stud and the handle to maintain the handle in its operative position.

1,678,696. BRAKE SUPPORTING AND OPERATING MECHANISM. ALVIN S. FISHEL, Cleveland, Ohio. Filed Dec. 5, 1923. Serial No. 678,664. 16 Claims. (Cl. 188—152.)



1. The combination, with a brake drum and a brake band arranged to cooperate therewith, the said band having brackets at opposed ends thereof, of an angular brake band lever pivoted to one of said brackets, a bolt connected with said lever and extending through the said brackets, an anchored arm having a portion intermediate said brackets through which said bolt extends, a spring interposed between the said arm and the said lever, a fluid pressure cylinder pivotally mounted on said brake band, a piston rod extending from said cylinder, and an operative connection between the brake band lever and the said piston rod.

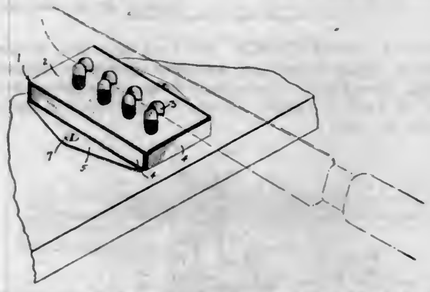
1,678,697. THREAD MOISTENER. CHARLES H. GIEBELER, Plainfield, N. J. Filed May 11, 1927. Serial No. 190,571. 3 Claims. (Cl. 91—46.)



1. A thread moistener comprising a receptacle designed to contain a moistening liquid, a felt support arranged on the receptacle and having an upright plate with an aperture therein and also having shelves reaching from said plate and spaced apart at a point in the same plane as said aperture and provided with upstanding flanges spaced from the plate, sections of felt arranged on said shelves with their confronting ends coincident with the said aperture, a float arranged in the receptacle and having a channel and also having a thimble in said channel; the receptacle being provided in its wall remote from the felt support with an aperture in the same vertical plane as the aperture in the thimble of the float and the aperture in the upright plate of the felt support, said apertures being for the passage of a thread through the aperture of the receptacle, the aperture in the thimble of the float and the aperture in the upright plate of the felt support, in the order named.

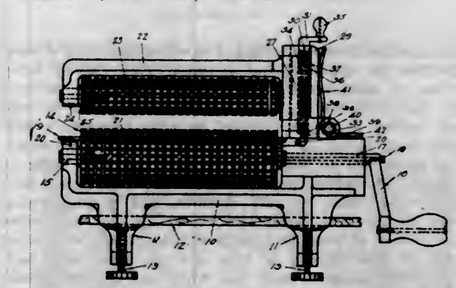
1,678,698. KNIFE SHARPENER. GEORGE A. GRAVES, Newton Center, Mass. Filed May 24, 1926. Serial No. 111,276. 4 Claims. (Cl. 76—86.)

1. A knife sharpener adapted for domestic use comprising overlapping rows of fixed projecting sharpening members arranged substantially parallel with each other and each having a single cutting edge adapted to present between said rows a series of aligned sharpening apertures to the opposite sides of a knife drawn between the aligned working edges of each of said rows, each of said edges being formed by the intersection of planes



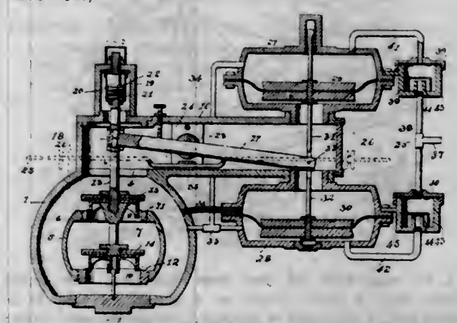
oblique to the line of the sharpening apertures, and a base member adapted to hold said members in fixed relation.

1,678,699. MEAT TENDERER. HERMAN S. JOHNS, Ada, Okla. Filed May 12, 1926. Serial No. 108,544. 9 Claims. (Cl. 17—25.)



1. In a machine of the character described, a pair of spaced parallel rollers, means supporting said rollers for rotation, means for rotating one of said rollers, means for adjusting the other roller toward and away from the first mentioned roller to vary the distance between said rollers, said supporting structure for the last mentioned roller being mounted for pivotal movement, and resilient means exerting a downward pressure on said structure and its roller, and permitting pivotal yielding movements at one end thereof for the purpose described.

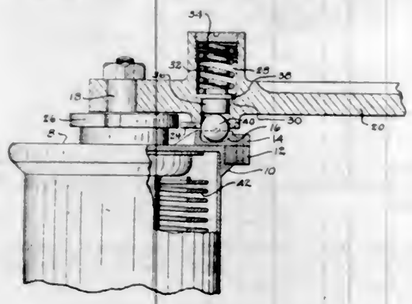
1,678,700. COMBINED VACUUM AND PRESSURE RELIEF VALVE FOR RECEIVING AND STORAGE TANKS. ANDREW J. MCEWAN, Tulsa, Okla. Filed Sept. 30, 1926. Serial No. 138,783. 14 Claims. (Cl. 137—53.)



5. In a pressure and vacuum relief valve, a valve member, counter-balanced diaphragms for respectively opening the valve member for pressure and vacuum

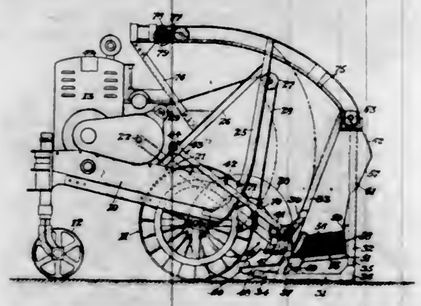
relief actions, and means for influencing the diaphragms respectively upon increase of pressure or reduction of pressure on one or the other of said diaphragms.

1,678,701. DOOR CLOSER. WALLACE F. MOORE, Meriden, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed June 17, 1927. Serial No. 199,514. 3 Claims. (Cl. 16—49.)



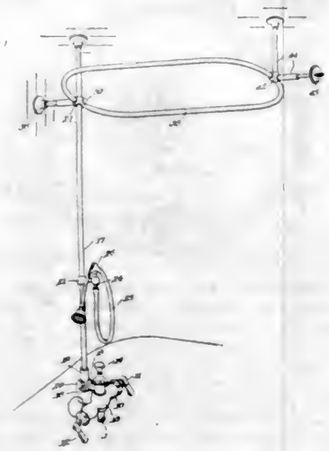
1. In a door closer having a member carrying a stop fixed thereto and a spring actuated door closing lever carried by said member and movable relatively to said stop, the improvement which consists in a recess in said lever having a mouth opposed to said member, a ball within said mouth of smaller diameter than said mouth so as to be free to pass therethrough, said ball being at all times in rolling contact with said member and held within said recess by said member, and a compression spring within said recess compressed by said ball when passing said stop so that pressure due to the expanding action of said spring is then exerted upon said ball, but uncompressed by said ball when out of engagement with said stop so that said ball is then free from such pressure, the ball and the end of the recess constituting abutments for said spring when the ball is passing said stop, one of said abutments being spaced away from said spring when the ball is not in engagement with said stop.

1,678,702. SAND CUTTING, SCREENING, AND PILING MACHINE. VERNE E. MINICH, Scarsdale, N. Y., assignor to The American Foundry Equipment Company, New York, N. Y., a Corporation of Ohio. Filed Oct. 15, 1926. Serial No. 141,711. 29 Claims. (Cl. 259—144.)



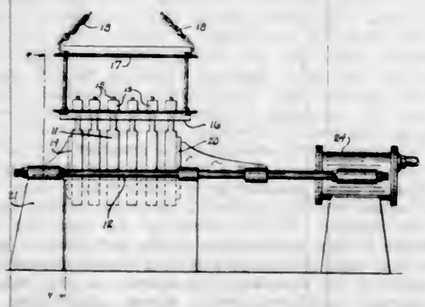
1. In apparatus of the class described, the combination with a sand cutter of a screen adapted to be raised out of the path of the sand ejected by said cutter, a support for said screen, a trackway above said machine, and means on the support engaging said trackway to guide the screen into non-operative position.

1,678,703. BATH AND SHOWER COMBINATION. PHILIP MUELLER, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed Oct. 19, 1925. Serial No. 63,022. 13 Claims. (Cl. 4—148.)



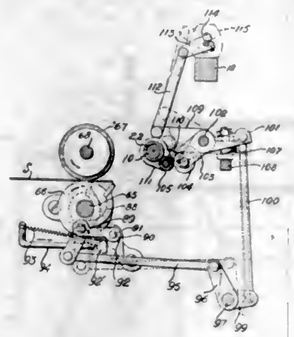
1. A faucet and shower combination comprising the combination with hot and cold water valves and connections therefor, of a mixing chamber structure between said valves, a supply spout leading from said chamber, a rigid shower column leading upwardly from said chamber, a switch valve in said chamber for controlling the discharge through said spout and shower column, and means connecting said column to said chamber structure permitting adjustment of said column about a horizontal axis relative to said chamber.

1,678,704. FILTERING DEVICE. WILLIAM M. MORRISON, Tacoma, Wash., assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 17, 1927. Serial No. 168,872. 5 Claims. (Cl. 210—188.)



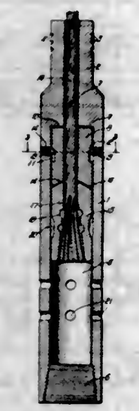
1. A filter comprising a container having a solution to be filtered therein, a plurality of filter-plates, each of said plates comprising a pair of filter surfaces separated to form a closure, means for applying a vacuum to said closure while said plates are immersed in said solution, whereby a cake may be formed in the spaces between adjacent plates, means for raising said plates from said solution, and means for applying mechanical pressure to said assembly in raised position while maintaining said vacuum, whereby a substantially dry, solid cake may be obtained.

1,678,705. PRINTING MECHANISM. WILLIAM F. MULLER, Brooklyn, N. Y., assignor to The International Postal Supply Company of New York, Brooklyn, N. Y., a Corporation of New York. Filed July 28, 1922. Serial No. 578,272. 1 Claim. (Cl. 101—236.)



In a printing mechanism, a pair of feed rolls for receiving and advancing paper strips, a printing couple disposed beyond the feed rolls for receiving said strips and having a die roll disposed at one side of the path of the strip, a shaft connected to the die roll of the printing couple, means for frictionally driving the shaft, said shaft having an arm thereon, a pivoted stop normally engaging the arm to hold the shaft from turning, a strip engaging lever having an end extending into the path of the strip adjacent to one of the feed rolls and at the opposite side of the path of the strip from that of the die roll, a yieldable pivoted support for said strip engaging lever, a link extending substantially in the direction of the path of the strip from the other end of said strip engaging lever, a second link extending transversely of the plane of the path of the strip from the pivoted stop, and a shaft and rocker arm structure connected between the links for transmitting movements between the strip engaging lever and the pivoted stop.

1,678,706. SWIVEL ROPE SOCKET. ALBERT H. NEILSON, Tulsa, Okla. Filed June 27, 1927. Serial No. 201,856. 7 Claims. (Cl. 24—123.)



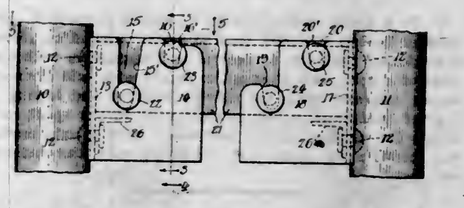
1. A device of the character described including a body having a socket opening through one end thereof and having a rope channel leading from the base of the socket, a rope anchor block in the socket and a bushing interposed between the anchor block and the base of the socket with its upper bearing face terminating flush with the base of the socket.

1,678,707. CLASP FOR BRACELETS. ALMYR L. NEWMAN, Warwick, R. I. Filed Mar. 2, 1928. Serial No. 258,605. 6 Claims. (Cl. 24—230.)



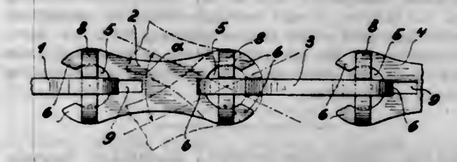
1. In a clasping-device for bracelets or the like, the combination of a link having a cross-member at its end, a second link having a hook at its end adapted to hook around one side of the cross-member, and a pivoted clasp on one link provided with a latch adapted to slide across and engage with the cross-member on the opposite side from the hook.

1,678,708. CORNER LOCK FOR BEDSTEADS. HENRY RICHARDSON, Chicago, Ill. Filed Nov. 27, 1925. Serial No. 71,562. 2 Claims. (Cl. 5—294.)



1. In a bedstead structure, the combination of a cooperating pair of brackets adapted to be secured to oppositely facing corner posts of a bed, each of said brackets having a post plate and a side wall formed with upper and lower rail locking elements comprising two horizontally spaced notches, the notches constituting the upper rail locking elements being the inner notch in the side wall of one of said brackets and the outer notch in the side wall of the other bracket, and a side rail having its end portions each provided with upper and lower rail locking members adapted to engage with the said spaced notches and removably lock said side rail to said bracket.

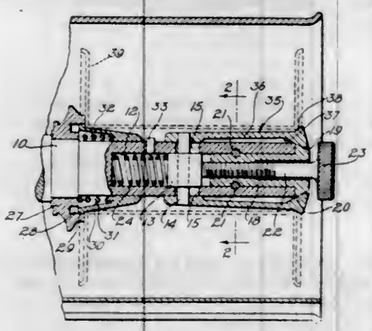
1,678,709. SECTIONAL OR LINK SHAFT. WALTER SCHÜRMANN, Dusseldorf, Germany. Filed July 27, 1926, Serial No. 125,227, and in Germany Oct. 1, 1925. 4 Claims. (Cl. 64—30.)



1. A flexible shaft or coupling comprising at least two flat link plates having forked end portions and a nearly circular opening between the arms of the forks, and a flat disk within the openings of the forked ends of the

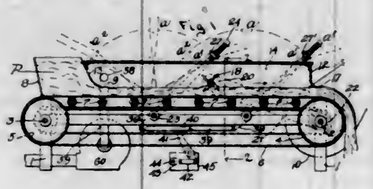
link plates and having transverse notches in its periphery arranged in working pairs; one pair of notches receiving the fork arms of one link plate and the other pair of notches receiving the fork arms of the other link plate.

1,678,710. MATERIAL-SPOOLING MECHANISM. JOHN NILSEN SELVIG, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corportation of New York. Original application filed July 12, 1924, Serial No. 725,660. Divided and this application filed Jan. 2, 1926. Serial No. 78,841. 9 Claims. (Cl. 242—68.)



1. In a spool locking device, a driving element, a cam member having an offset tapered surface extending across a portion of the outer surface of and engageable with one head of a spool and arranged to rotate with said element, means rotatable with the driving element and having a tapered surface engaging another head of the spool, and means for causing relative movement between said means and member to clamp the heads between the tapered surfaces.

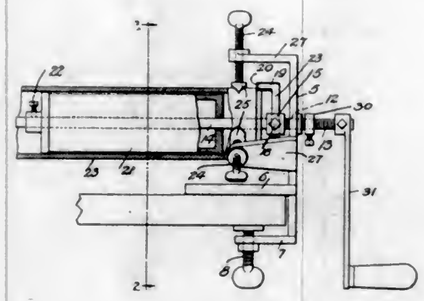
1,678,711. SOLAR-HEAT DRIER. LEWIS H. SHIPMAN, Boston, Mass. Filed May 6, 1925. Serial No. 28,400. 4 Claims. (Cl. 34—12.)



1. A solar heat drier for peat and the like having, in combination, an endless traveling conveyer belt on to which the peat or the like is delivered; a housing through which the peat or the like is transported by said conveyer, said housing inclosing the peat on all sides and having a transparent top; an air outlet communicating with the interior of said housing; means for exhausting air through said outlet and substituting fresh air therefor, and means for directing a beam of condensed solar rays on to the peat upon the conveyer while moving through said housing.

1,678,712. PIPE-SEAT-CUTTING MACHINE. LEANDER DOW SMITH, Los Angeles, Calif. Filed Nov. 3, 1926. Serial No. 145,961. 3 Claims. (Cl. 82—4.)

1. A pipe seat cutting machine comprising a vertically disposed frame adapted to be clamped to a support, an operating shaft mounted in said frame for rotation and reciprocation, a mandrel detachably mounted on said shaft, a plurality of clamps mounted on said frame and adapted to engage the exterior surface of the pipe to clamp the same in rigid relation to the mandrel, an adjustable cutting tool mounted transversely on said

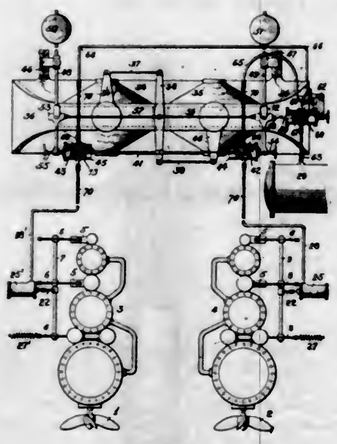


shaft for forming interior or exterior seats on the end of the pipe, a collar threadingly mounted on the outer end of the said shaft for regulating the depth of the seat cuts, and means to rotate and reciprocate the operating shaft.

1,678,713. MOLDING COMPOUND. HARRY STIRLING SNELL, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 8, 1924. Serial No. 748,525. 15 Claims. (Cl. 260—9.)

1. As a new article of manufacture, a compound formed by the condensation of an insoluble proteinate and furfural.

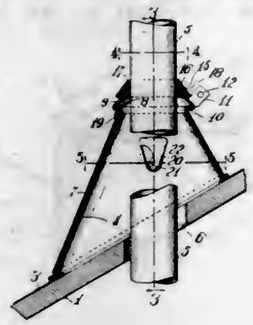
1,678,714. MEANS FOR PREVENTING RACING OF SHIPS' ENGINES. ELMER A. SPERRY, Brooklyn, N. Y. Filed Jan. 8, 1921. Serial No. 435,837. 16 Claims. (Cl. 115—43.)



1. In combination with a ship's propellers located on opposite sides of the longitudinal axis of the ship, separate sources of power for driving said propellers, means

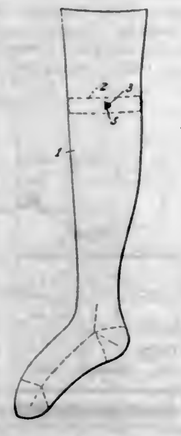
responsive to pitching of the ship in a given direction for braking said sources of power, and means responsive to rolling of the ship for preventing the braking of one of said sources.

1,678,715. ROOF FLASHING. ROBERT J. STEPHENSON, Chicago, Ill. Filed Nov. 5, 1926. Serial No. 146,411. 6 Claims. (Cl. 283—31.)



3. A roof flashing comprising a tapered sleeve the smaller end of which is adapted to loosely surround a pipe, and is formed with an outturned flange, and a split collar adapted to engage about this flange, the collar comprising means for adjustably drawing the split ends together, and a soft metal ring on the collar adapted to snugly engage the pipe.

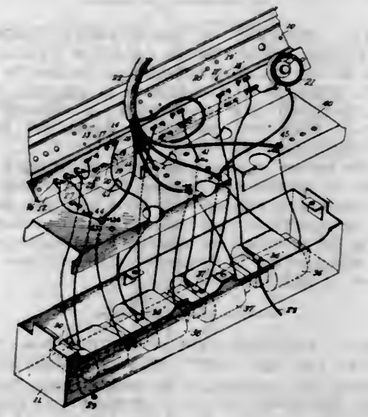
1,678,716. HOSIERY. WILLIAM L. THORNE, New York, N. Y. Filed June 29, 1926. Serial No. 119,288. 4 Claims. (Cl. 2—240.)



1. In combination, a hose and a garter for said hose, said garter comprising a leg-encircling band separate from said hose and inside the leg opening of said hose, said band looped back and forth in the body of the hose.

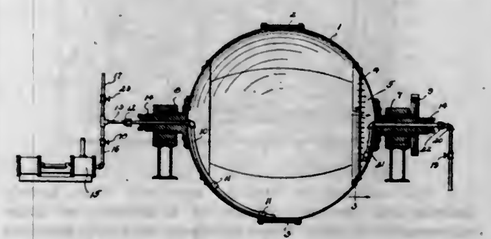
1,678,717. ELECTRICAL APPARATUS. MILTON ALDEN, Springfield, Mass., assignor to Alden Manufacturing Company, Brockton, Mass., a Corporation of Massachusetts. Filed Jan. 17, 1927. Serial No. 161,619. 6 Claims. (Cl. 179—171.)

1. An amplifier set comprising a casing, a coupling device mounted therein, a cover member secured thereto and including a socket having contacts for a vacuum tube, an insulating conductor positioning plate between said coupling device and said socket, a cable having



conductors riveted to said plate, some of said contacts being connected to the rivets and other wires connecting other contacts with the coupling device.

1,678,718. METHOD OF WASHING COOKED STRAW. DE WITT C. AMERINE, Vincennes, Ind. Filed June 9, 1926. Serial No. 114,700. 5 Claims. (Cl. 92—9.)



1. The method of treating straw for straw boards or papers by first rotating same in a closed vessel with a lime sulphur in the presence of steam under pressure and thereafter continuing the rotation of said rotary with a restricted outlet in said vessel, and applying water against the pressure of the steam held in said vessel, whereby the water will flow through said vessel, reducing the pressure of the steam and removing from the vessel a portion of the said solution.

1,678,719. METHOD OF MAKING ESTERS. GEORGE BARSKY, New York, N. Y., assignor to American Cyanamid Company, New York, N. Y., a Corporation of Maine. Filed Apr. 13, 1927. Serial No. 183,612. 9 Claims. (Cl. 260—106.)

1. A method of making esters which comprises heating a mixture of an organic acid, the nitrile corresponding to said acid, and an alcohol, in the presence of a mineral acid.

1,678,720. SIZING FIBERS. HUBERT L. BECHER, Trenton, N. J., assignor to The Agasote Millboard Company, Ewing Township, N. J., a Corporation of New Jersey. Filed Apr. 22, 1926. Serial No. 103,986. 1 Claim. (Cl. 92—21.)

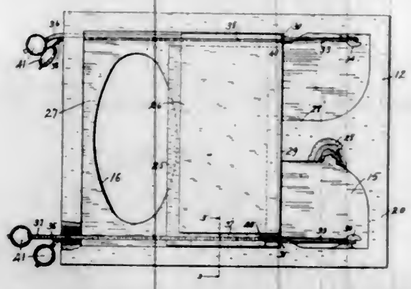
The process of treating fibers as a preliminary step to shaping the same which comprises adding water.

tannic acid and a soluble metallic soap to the fiber, beating the fiber and then precipitating the soap onto the fiber by means of a metallic salt.

1,678,721. PROCESS OF RECOVERING COMBINED NITROGEN FROM CRUDE CALCIUM CYANAMIDE. GUY H. BUCHANAN, Westfield, and PALMER W. GRIFFITH, Elizabeth, N. J., assignors to American Cyanamid Company, New York, N. Y., a Corporation of Maine. Filed Feb. 29, 1924. Serial No. 696,070. 10 Claims. (Cl. 23—190.)

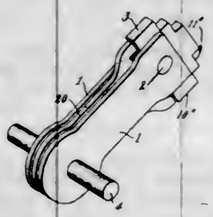
1. The process of recovering combined nitrogen which consists in providing a mixture of lime nitrogen and water containing between 100 parts and 400 parts of water by weight to each 100 parts of lime nitrogen; filtering the solution thus obtained; and subjecting the solids separated out to the action of an autoclave in the presence of additional water.

1,678,722. PICTURE-DISPLAY DEVICE FOR CANDY BOXES OR THE LIKE. WALTER C. CARLSON, Milwaukee, Wis., assignor to Milwaukee Paper Box Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 4, 1926. Serial No. 146,189. 13 Claims. (Cl. 40—65.)



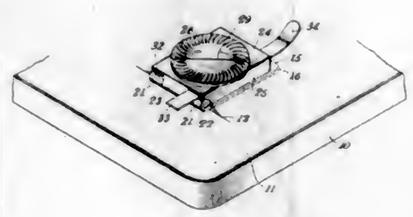
1. The combination with an apertured frame having interior side bearing surfaces, of a plurality of slides reciprocable in said frame between retracted positions and advanced positions in registry with said aperture, said slides being of less length than the interior width of said frame and being positioned therein in staggered relation with their respective ends abutting bearing surfaces on opposite sides of the frame, and actuating means for each slide connected thereto at the end thereof which abuts a frame bearing surface.

1,678,723. ROTARY-HAMMER GRINDING MILL. WALTER J. CLEMENT, Utica, N. Y., assignor to The Bossert Corporation, Utica, N. Y., a Corporation of New York. Filed Oct. 20, 1925. Serial No. 63,608. 5 Claims. (Cl. 83—73.)



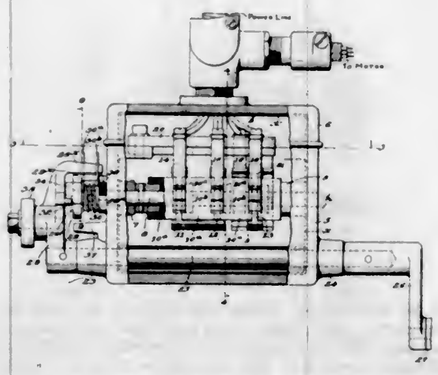
1. A hammer of the class described, comprising a pair of spaced members, a hammer head having a plurality of striking faces pivoted between said members, and an element positioned between said members for holding said head against turning on its pivot with any selected face in operative position.

1,678,724. PRINTING-PRESS GAUGE. GENNARO DE PAMPHILIS, New York, N. Y. Filed Nov. 14, 1927. Serial No. 233,186. 4 Claims. (Cl. 101—415.)



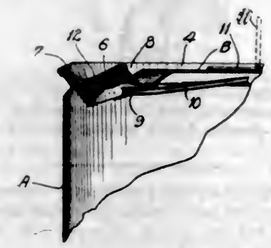
1. A gauge for use in combination with a tympan sheet comprising a base plate to pass through a slit in said sheet, said plate having an apertured recess, a frame hinged to said plate to rest over said sheet, means in said frame to adjustably carry one or more guide strips, a manually operable head rotatably mounted in said frame, and cam means actuated by said head to engage in the base recess and clamp said frame to the base.

1,678,725. SNAP SWITCH FOR MOTOR CONTROL. ROBERT M. GALLOWAY, Richmond, Ind., and PAUL C. BURTON, Clarendon Hills, Ill., assignors to The National Automatic Tool Company, Richmond, Ind., a Corporation of Indiana. Original application filed Sept. 23, 1923, Serial No. 661,447. Divided and this application filed Apr. 7, 1925. Serial No. 21,375. 5 Claims. (Cl. 200—70.)



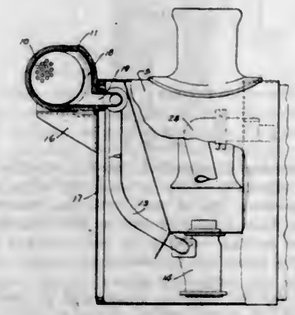
1. An electric switch comprising a housing; a plurality of fixed contacts in said housing; a first oscillatory shaft journaled in said housing; a contact member carried by said shaft and adapted upon oscillation of the shaft selectively to connect said contacts; a second oscillatory shaft journaled in said housing parallel with said first shaft; manual means to oscillate said second shaft including an actuating crank secured to one end of said shaft; a lever secured upon the opposite end of said shaft; a rocker secured to said first shaft adjacent said lever; an operative connection between said lever and said rocker to transmit oscillatory movement from the second shaft to said first shaft; and a roller carried by said lever and adapted to be acted upon by power means to shift said lever thereby to oscillate said first shaft and the contact member carried thereby.

1,678,726. CONTAINER. WALTER S. GRANT, St. Louis, Mo. Filed May 19, 1927. Serial No. 192,544. 5 Claims. (Cl. 221—28.)



1. A container comprising a body having a projecting chime at its top; a pouring lip formed in said chime; a pouring nozzle mounted in the head of the container in proximity to said pouring lip; and an annular oil-receiving channel formed adjacent to said chime.

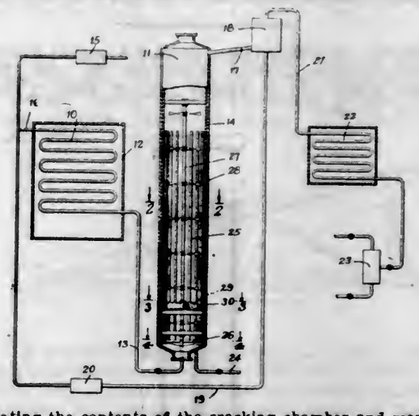
1,678,727. LOCOMOTIVE SMOKE-BOX ARRANGEMENT. JOSEPH F. GRIFFIN, Teaneck, N. J., assignor to The Superheater Company, New York, N. Y. Filed June 20, 1925. Serial No. 38,506. 3 Claims. (Cl. 122—441.)



1. In apparatus of the class described, a locomotive smokebox having a front end sheet and the usual engine exhaust pipe therein, a feed water heater located forward of said end sheet and having a flanged steam inlet adapted to be secured to said end sheet around an opening therein, and a steam pipe leading upwardly through said smokebox near the periphery thereof and connecting said exhoust pipe with said inlet.

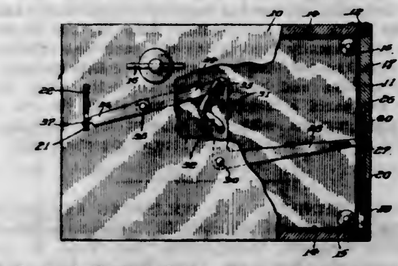
1,678,728. TREATING HYDROCARBON OILS. WILLIAM S. HADAWAY, Jr., New Rochelle, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 15, 1923. Serial No. 662,821. 3 Claims. (Cl. 196—48.)

1. Apparatus for converting higher boiling hydrocarbons into lower boiling ones comprising a vertical cracking chamber, a multi-tubular exchanger disposed longitudinally within the cracking chamber and formed with outlets at the upper end thereof, means for introducing oil into the bottom of the exchanger, mechanical means for



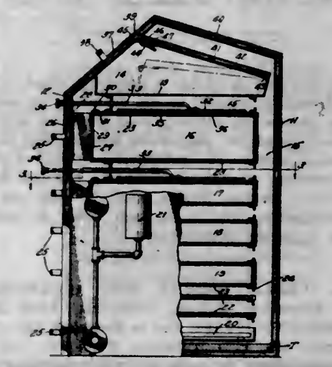
agitating the contents of the cracking chamber and means for drawing off liquid from the bottom of the cracking chamber.

1,678,729. EXPOSURE-INDICATING DEVICE FOR CAMERAS. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed June 1, 1921, Serial No. 474,146. Renewed Dec. 2, 1927. 10 Claims. (Cl. 95—31.)



1. In an indicating device, the combination of a camera having an opening through which film digits may be observed, means for indicating in said opening when an exposure has been made by said camera, and means in continual frictional engagement with the film surface and actuated by movement of the film for restoring said indicating means immediately upon movement of the film.

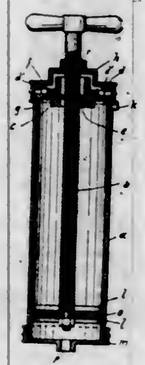
1,678,730. FOOD-PRESERVING CABINET. JOHN H. JOHNSON, Santa Barbara, Calif. Filed Sept. 25, 1924. Serial No. 739,957. 6 Claims. (Cl. 126—37.)



1. A food preserving cabinet comprising insulating walls, a lower section with drawers spaced from the sides

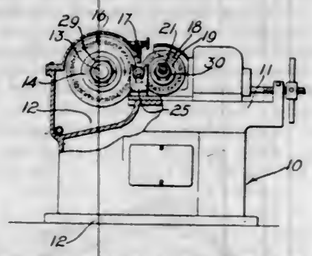
to form air-circulation flues, a slidable cover for each drawer, a transverse partition forming a display section above the drawer section, and a heater within the cabniet.

1,678,731. LUBRICATOR. NIKOLAI KASTBERG KLAUSET, Christiansand, Norway. Filed Feb. 26, 1925, Serial No. 11,856, and in Norway Aug. 25, 1924. 1 Claim. (Cl. 74—40.)



A device of the character described including a support, a threaded rod arranged through the support, a split nut mounted on the support for association with the threaded rod and including two parts, pin and slot connections between the nut parts and the support for positively guiding the nut parts and for holding them on the support, means for normally holding the nut parts out of engagement with the rod, and consisting of coiled springs arranged between and having their respective ends fitted in the nut parts, a member arranged about the rod and adjustably engaged with the support and including a ring for forcing the nut parts into engagement with the rod.

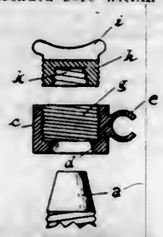
1,678,732. GRINDING AND POLISHING APPARATUS. PETER JOHN KNAUS, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 13, 1925. Serial No. 15,228. 2 Claims. (Cl. 51—88.)



2. In a grinding machine, a grinding wheel, a feeding wheel peripherally opposed to the periphery of said grinding wheel, means for rotating said grinding and feeding wheels, and means for supporting and guiding an article to be ground between the peripheries of said wheels, the forward portions of said wheels being profiled to abrade said article at graded depths, and the rear portions of said wheels being parallel to each other to polish said article as it passes therebetween.

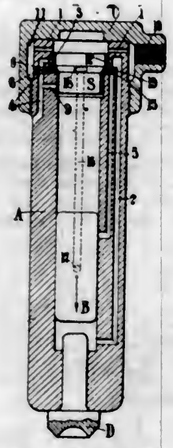
1,678,733. CABLE SOCKET FOR ACCUMULATORS. EINAR KROMANN, Odense, Denmark. Filed May 26, 1927, Serial No. 194,492, and in Denmark Jan. 31, 1927. 3 Claims. (Cl. 173—259.1.)

1. A cable socket for accumulators comprising in combination a box member having an upper screwed bore and a lower bore suitable for fitting over the pole pin of the accumulator, an externally threaded plug to engage the upper screwed bore of the box, means for revolving the plug and a screw-threaded bore within the plug which is



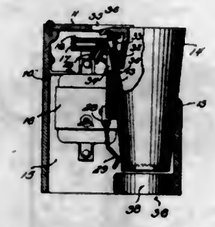
adapted to simultaneously cut a thread on the pole pin when same is screwed into the upper end of the screwed box member, thereby firmly holding the box against the pole pin.

1,678,734. FLUID-OPERATED TOOL. WILHELM KÜHN, Frankfort-on-the-Main, Germany. Filed Mar. 10, 1927, Serial No. 174,346, and in Germany Feb. 25, 1925. 6 Claims. (Cl. 121—26.)



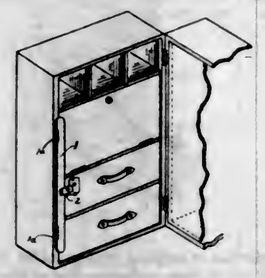
1. In a pressure-air operated tool the combination of: a cylinder, a piston working in said cylinder, means for supplying pressure air to said cylinder, means for discharging air from said cylinder, a distributing valve in said cylinder having both of its ends stepped and being adapted at the upper end to control the supply of air from said pressure air supplying means to the upper end of the cylinder for the working stroke and at the lower end to control the discharge of air through said discharging means from the upper end of the cylinder, a conduit associated with the valve which is open to the pressure air supply and to the cylinder during a part of the working stroke of the piston and is adapted to be closed by the piston before the end of the working stroke for the purpose of increasing the pressure in said conduit and thereby starting the reverse movement of the valve, a second conduit adapted to be rendered operative by the valve shortly after the reverse movement of the valve has started, for completing the reverse movement of the valve, said second conduit communicating at one end with the pressure air supply and at the other end with the front end of the cylinder, and a third conduit likewise adapted to be rendered operative by the valve shortly after the reverse movement of the valve has started, for the purpose of allowing of the passage of additional pressure air past the lower end of the valve into the cylinder, said third conduit communicating at one end with the lower end of the valve and at the other end with the front end of the cylinder, substantially as described.

1,678,735. MIXING MACHINE. VICTOR P. LARSON, Racine, Wis. Filed Aug. 7, 1926. Serial No. 127,757. 13 Claims. (Cl. 259—131.)



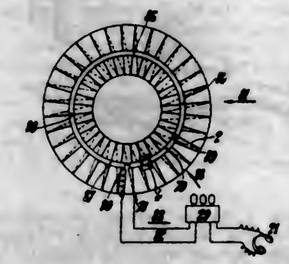
1. In a mixing machine the combination of a body portion having means for removably receiving a plurality of mixing cups, a plurality of cups, a stirring mechanism carried by each cup, a motor supported by said body portion, means actuated by said motor for driving said stirring mechanisms, and means responsive to the application of a cup to any of said receiving means for rendering said motor and driving means active.

1,678,736. TRUNK LOCK. CHARLES LEDIN, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Sept. 29, 1927. Serial No. 222,887. 6 Claims. (Cl. 45—94.)



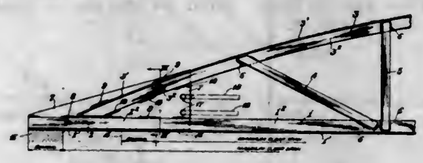
1. A trunk comprising a series of drawers, a locking bar provided to prevent opening of said drawers, a latch bolt mounted on one of said drawers, a bolt mounted on the locking bar and spring pressed relatively thereto and having means adapted to cooperate with the latch bolt, said spring pressed bolt being adapted to be pushed against the pressure of the spring into cooperation with the latch bolt to lock the locking bar in position.

1,678,737. SYSTEM OF RADIOGONIOMETRY. WILLIAM ARTHUR LOTH, Paris, France, assignor to Société Industrielle des Procedes W. A. Loth, Paris, France. Filed Apr. 14, 1924, Serial No. 706,592, and in France Apr. 23, 1923. 5 Claims. (Cl. 250—11.)



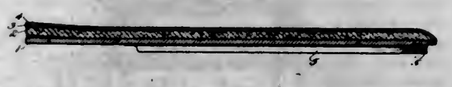
1. In an electromagnetic direction finding device, a plurality of serially connected turns, means for short circuiting some of said turns, a current indicating device, means for connecting said current indicating device to the non-short circuited turns, said short circuiting means being included in the circuit of the indicating device.

1,678,738. STRUCTURAL ELEMENT. STANLEY MACOMBER, Massillon, Ohio, assignor to The Macomber Steel Company, Canton, Ohio, a Corporation of Ohio. Filed Jan. 6, 1926. Serial No. 79,531. 5 Claims. (Cl. 108—23.)



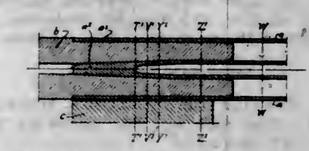
1. A structural element comprising an angle bar forming a base chord, a curved second angle bar forming a top chord, web members secured to the vertical flanges of said bars, the ends of the horizontal flanges of the top chord being disposed adjacent the edges of the vertical flanges of the base chord and a substantial distance from the respective ends of the latter, vertical longitudinal tie plates secured to the vertical flanges of said chords and extending inwardly substantially beyond the ends of the top chord, and complementary flanged bars welded to the bottom of the opposite faces of said tie plates to complete a plain balanced base for the element, whereby the element may be adjusted to varying distances between supports within the maximum limit of the length of the base chord and the minimum limit of somewhat more than the distance between the inner edges of the tie plates.

1,678,739. BOOT AND SHOE. LAURIE S. MACDONALD and JOSEPH E. SMALL, Brockton, Mass. Filed Dec. 22, 1925. Serial No. 76,986. 2 Claims. (Cl. 36—44.)



1. An inner sole comprising a leather sole-shaped body member; a sole shaped top member of soft flexible sheet material; a sole-shaped felt cushion member between the top and body members; a sole-shaped waterproof member of flexible sheet material between the top and cushion members, and marginal stitches fastening all of said members together throughout their shank and fore-part portions only, all of said members being of the same size and shape and said stitches being cast around the edges thereof and holding the edges of the top member, waterproof member and body member together so as to enclose the felt member.

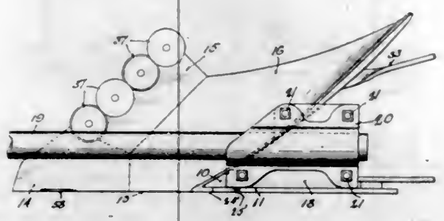
1,678,740. METHOD FOR JOINING PIPES. AUGUSTE ADELIN GUSTAVE MAGIS, Paris, France, assignor to The Super-Heater Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 23, 1924, Serial No. 688,001, and in France Mar. 21, 1923. 4 Claims. (Cl. 29—157.6.)



1. The method of making a structure of the kind referred to comprising the steps of holding a plurality of pipes in parallel relation in the relative position they are

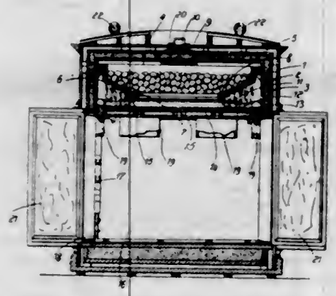
to occupy in the finished structure, heating the portions of the pipes to be joined to a suitable temperature, pressing portions of the wall of each pipe against the adjacent portions of two neighboring pipes thereby welding the walls together, and thereafter splitting the welded walls so that the interior of each pipe opens into the interior of the adjacent pipes.

1,678,741. PLOW. MATTHEW MARES, Racine, Wis. Filed Apr. 20, 1923. Serial No. 633,430. 7 Claims. (Cl. 97—129.)



1. A plow having a plow share provided with a plurality of disks constituting the cutting edge thereof, said disks lying in the plane of the share.

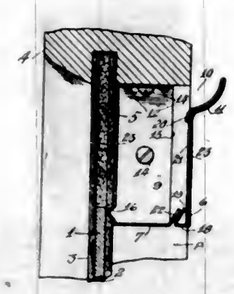
1,678,742. CONSTRUCTION OF REFRIGERATOR CHAMBERS. JEAN GEORGES MEYNIEU, Bordeaux, France. Filed July 23, 1924, Serial No. 727,815, and in France July 27, 1923. 1 Claim. (Cl. 62—54.)



A refrigerator including a body composed of side, top, and bottom walls, a partition arranged in the interior of the body dividing the latter into upper and lower chambers, said partition being hollow to provide an internal space for the passage of air and having openings in the lower portion thereof permitting the passage of warm air from the upper part of the lower chamber into said hollow space, flues for conducting air from said space to the top of the upper chamber extending adjacent to the top of said chamber, and flues for conducting air from the lower part of the upper chamber to the lower chamber.

1,678,743. VENTILATOR. WILLIAM S. MILLER, Rochester, N. Y. Filed Sept. 29, 1925. Serial No. 59,317. 9 Claims. (Cl. 98—2.)

1. The combination with a frame and a window slidable therein, of a ventilator extending across the top of the opening in the frame and including a perforated outer plate member secured to the frame within said opening, an inner plate member also secured to the frame and being independent of the outer plate, a bottom wall carried by one of said plate members, and a deflected portion formed on said inner plate for deflecting the air currents upwardly from under the top face of the frame opening.

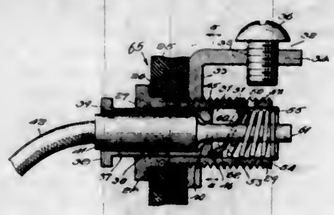


1,678,744. METHOD OF MAKING PIPE ELBOWS. JULIUS C. OLSEN, Racine, Wis., assignor to Western Metal Special Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed May 21, 1927. Serial No. 193,315. 2 Claims. (Cl. 29—157.)



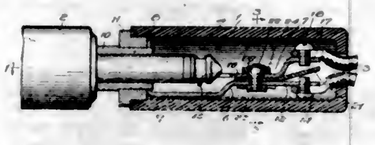
1. The method of making elbows which consists of shaping a pair of curved complementary sheet-metal blanks into semicircular form in cross-section, uniting said shaped members with their adjacent edges overlapped and welded to form a unitary curved tubular member, securing threaded cast ring members within both end portions of the tubular member, and securing a cast flanged ring member externally to one end portion of the tubular member.

1,678,745. TERMINAL. NEWTON C. SCHELLENGER, Elkhart, Ind., assignor to Chicago Telephone Supply Co., Elkhart, Ind., a Corporation of Delaware. Filed Aug. 5, 1925. Serial No. 48,265. 7 Claims. (Cl. 173—259.)



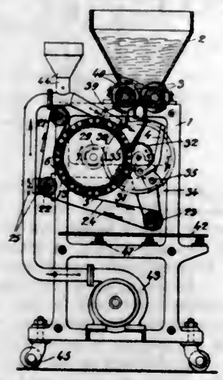
1. In a jack, a tubular member for receiving a conductor, and binding means including a relatively thin ring-like element through which the conductor is adapted to extend, arranged to tightly grip a portion of said conductor to prevent the removal of the conductor from the jack.

1,678,746. JACK. NEWTON C. SCHELLENGER, Elkhart, Ind., assignor to Chicago Telephone Supply Co., Elkhart, Ind., a Corporation of Delaware. Filed Sept. 5, 1925. Serial No. 54,594. 8 Claims. (Cl. 173—328.)



1. In combination, a sleeve, a plug in one end thereof, and a resilient frame mounted on said plug and within said sleeve.

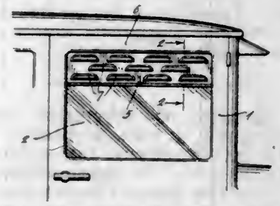
1,678,747. DOUGH-KNEADING MACHINE FOR THE PRODUCTION OF DOUGH PORTIONS READY FOR BAKING. RICHARD SCHOLZ, Berlin, Germany, assignor to the Firm: W. Marx & Co., Halle-on-the-Saale, Germany. Filed Jan. 25, 1927. Serial No. 163,444, and in Germany Mar. 16, 1925. 6 Claims. (Cl. 107—9.)



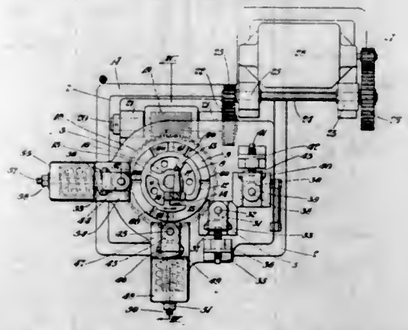
6. A dough cutting, kneading and shaping machine, comprising in combination a horizontal hollow cylinder having apertures in its circumference which are displaced the one with regard to the other, a cylinder in said hollow cylinder designed to cover said apertures from the inner side, fingers on said inner cylinder engaging each into one of the apertures of said hollow cylinder, means for slowly rotating said hollow cylinder, and means for communicating to said inner cylinder which rotates with said hollow cylinder a rapid reciprocating movement so that said fingers circulate in said apertures and knead and shape the dough portions held in said apertures, an endless band enclosing said hollow cylinder, guide pulleys for guiding said endless band so that it covers that portion of the circumference of said hollow cylinder which begins to descend at the rotation of said cylinder so that the dough portions are securely held in the apertures of said hollow cylinder, and a stretching device on that guide pulley which stands opposite the portion of said conveying band which is in contact with said cylinder so that an elastic contact is ensured.

1,678,748. VENTILATOR FOR CLOSED CARS. LEON RANSOM SMITH, Englewood, Colo. Filed Oct. 17, 1927. Serial No. 226,805. 4 Claims. (Cl. 98—2.)

1. In a member having a window opening provided with grooves along the sides and top, a felt lining strip for each side of the groove and a glass slidable in the grooves, a ventilator consisting of two sheet metal plates having each a plurality of openings, one of said sheets being located on each side of the groove between the side of the groove and the adjacent felt strip whereby the two metal strips are spaced apart so as to permit the glass to be inserted into the space between them.

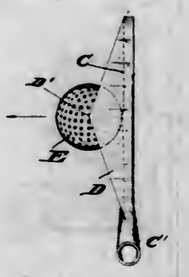


1,678,749. COILING MACHINE. THOMAS W. SMITH, Irvington, N. J. Filed Apr. 13, 1927. Serial No. 183,556. 2 Claims. (Cl. 242—82.)



1. A universal coiling machine for coiling square, round, and flat metal pieces, comprising a base, a spindle rotatably mounted on said base, a plurality of spring pressed holding rollers slidably mounted on said base and movable toward and away from said spindle, said rollers being spaced around said spindle, a pair of guide rollers slidably mounted on said base, said rollers being arranged right and left-hand so as to engage the opposite sides of the work-piece being coiled, individual screw means for adjusting each of said rollers to vary the distance between their faces, said spindle having a work-piece engaging slot, means movable into said slot for locking the end of the work-piece in said slot and power means for rotating said spindle.

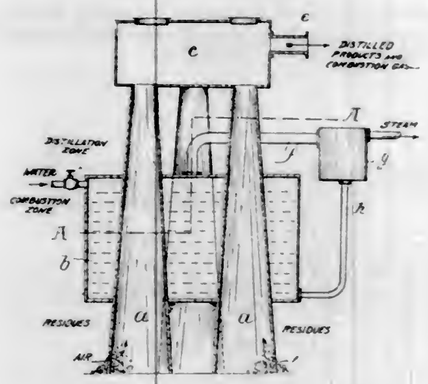
1,678,750. GOLF CLUB. DONALD SWAN, Grosse Ile, Mich. Filed Mar. 14, 1928. Serial No. 261,427. 1 Claim. (Cl. 273—77.)



In a golf club, a flat metal blade, an integral flange of substantially triangular shape formed on the upper edge of said blade and overhanging the striking face of

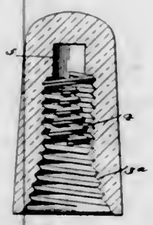
the latter, said triangular overhanging flange being in a plane substantially at right angles to the plane of said blade and having its apex in a vertical plane substantially midway between the ends of said blade, said apex being at such distance from the striking face of said blade as to register substantially with a spot in the median plane of a ball to be struck.

1,678,751. METHOD OF DISTILLING OIL SHALE AND PROVIDING A RAW MATERIAL SUITABLE FOR THE MANUFACTURE OF HYDRAULIC CEMENT. OSKAR TETENS, Oerlinghausen-Lippe, Germany, assignor to the Firm Record Cement-Industrie G. m. b. H., Frankfort-on-the-Main, Germany. Filed Sept. 19, 1924, Serial No. 738,729, and in Germany July 14, 1924. 4 Claims. (Cl. 202—16.)



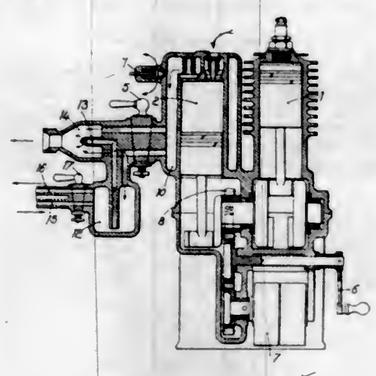
1. The method of distilling oil shale and producing a raw material suitable for the manufacture of hydraulic cement, which comprises burning the shale mixed with the non-combustible calcareous material, cooling the combustion zone by a confined body of water surrounding the same and simultaneously producing steam therefrom, and maintaining a column of said mixture above and in contact with said zone, and obtaining oil from such column by the hot gases ascending from the zone, and discharging from the zone a raw material suitable for the manufacture of hydraulic cement.

1,678,752. INSULATING CAP FOR THE JOINTS OF ELECTRICAL CONDUCTORS. FREDERIK MARINUS VAN GELDEREN, Enschede, Netherlands. Filed Oct. 18, 1927. Serial No. 226,974. 5 Claims. (Cl. 173—263.)



1. An insulating cap of the type including a body of insulating material having a cavity therein, and a metallic insert in said cavity, said insert having an internally threaded tapered passage therethrough for receving and binding the bare ends of electrical conductors when the cap is applied thereto and rotated, characterized by the fact that said body of insulating material is provided with a well below said cavity for receiving the ends of conductors which protrude beyond said cavity and the metallic insert therein.

1,678,753. AUTOMATIC STARTING DEVICE FOR INTERNAL-COMBUSTION ENGINES. PAUL VIET, Billancourt, France. Filed Mar. 23, 1926, Serial No. 96,795, and in France Apr. 4, 1925. 3 Claims. (Cl. 123—179.)



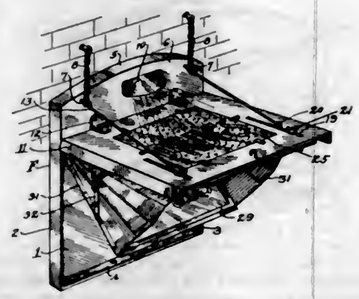
1. An automatic starting device for internal combustion engines comprising, a fuel feeding device connecting with the engine, an air supply, an air compressor in connection with the air supply, a conduit establishing communication between said compressor and the fuel feeding device, a fuel supply, a fuel sprayer connected with said fuel supply interposed in the conduit and responsive to the air of the compressor, an auxiliary motor for driving said compressor, a magneto associated with said compressor, and starting means associated with said magneto and the crank shaft of said auxiliary motor adapted upon movement in one direction to actuate both the magneto and the auxiliary motor and upon movement in the other direction to actuate only the magneto.

1,678,754. COMBINATION CIGARETTE HOLDER AND PIPE. WILLIAM WALKER, Sawtelle, Calif. Filed Mar. 3, 1927. Serial No. 172,342. 3 Claims. (Cl. 131—12.)



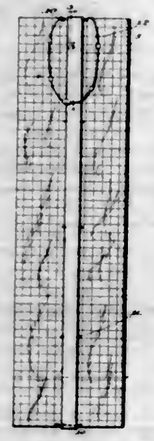
1. In a smoker's appliance of the class described, a smoke conducting and treating member adapted for disposition between a mouth-piece and a source of smoke production, said member embodying a pair of centrally bored couplings fitted into the ends of a hollow connecting member and forming a smoke-conducting and treating chamber, separate tubes carried by said couplings and having their inner ends projecting into said chamber, purifying sponges located in said chamber, and means for detachably connecting said sponges with the inner ends of said tubes.

1,678,755. ILLUMINATED SIGN. JOHN W. WHISENANT, Los Gatos, Calif. Filed Dec. 29, 1927. Serial No. 243,334. 5 Claims. (Cl. 40—130.)



1. A sign comprising a support having a frame hinged thereto, a transparent plate in said frame, a stencil on one face of said plate, a mirror adjustable angularly relative to said frame, and means for holding said frame in its angularly adjusted position.

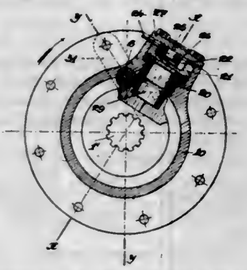
1,678,756. CLOTH PATTERN. WILLIAM J. ZIMMERMAN, Knoxville, Tenn. Filed June 9, 1927. Serial No. 197,755. 10 Claims. (Cl. 35—17.)



1. As a new article of manufacture, a cloth pattern comprising a folded piece of material, and a removable panel extending longitudinally of the pattern and disposed thereon.

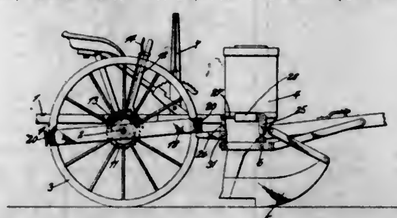
1,678,757. POWER-TRANSMISSION MECHANISM FOR THE DRIVING WHEELS OF MOTOR VEHICLES. ALEXANDER ABRAMSON, Prague, Czechoslovakia. Filed Apr. 18, 1927, Serial No. 184,799, and in Czechoslovakia Sept. 18, 1926. 8 Claims. (Cl. 74—7.)

1. A transmission and differential mechanism comprising a casing rotatably mounted and having a driving gear mounted thereon to rotate therewith; half axles associated with said casing; a driving member on the end of each axle and arranged adjacent each other in said casing, each driving member having an angular recess therein; a spring-controlled pin rotatably mounted in said casing and having a semi-circular lower end which projects into the recess in the driving members; and a



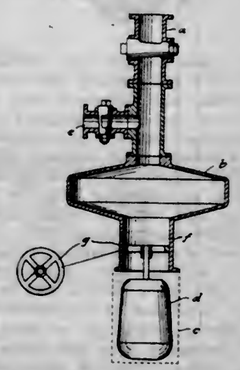
driving pin mounted in said casing against which the driving members are adapted to abut to drive the casing and gear by means of the axles.

1,678,758. ATTACHMENT FOR CHECKROW PLANTERS. WILLIAM J. BARCLAY, Springfield, Mo., assignor of one-half to W. A. King, Springfield, Mo. Filed Feb. 24, 1925. Serial No. 11,267. 1 Claim. (Cl. 111—16.)



In a planter having a rotary axle, a ground wheel selectively connected to said axle and a seed valve rock shaft; an attachment for turning the seed valve rock shaft in one direction comprising a lever attached to said shaft; a bell crank lever; an elastic connection for operating said first lever by said bell crank lever; comprising a tube pivoted to the lever, a rod connected to the bell crank lever and projecting into the tube, and a spring retarding the withdrawal of the rod from the tube and a marker rigid on said axle and arranged to operate said bell crank lever when said axle is rotated by said ground wheel.

1,678,759. MANUFACTURE OF HOLLOW BODIES FROM FIBROUS MATERIAL PULP. FRIEDRICH WILHELM BAUMGÄRTNER, Berlin-Schoneberg, Germany, assignor to F. A. Baumgartner, Dr. Katz & Co. G. m. b. H., Eiswerder-Spandau, Germany. Filed Apr. 21, 1923, Serial No. 633,660, and in Germany Nov. 16, 1922. 2 Claims. (Cl. 92—54.)



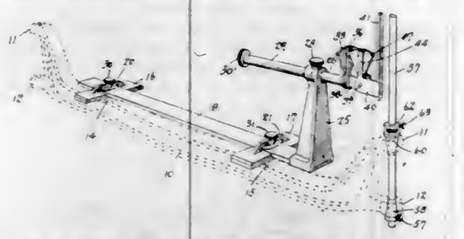
1. Apparatus for molding hollow pulp bodies having smooth interior surfaces comprising a lower, permeable

mold, an upper container, a body disposed in the mold to diminish the space within the mold, and means for introducing gas under pressure into the container.

1,678,760. PROCESS FOR THE PREPARATION OF ARSENIC COMPOUNDS. ARTHUR BINZ, Berlin, and CURT RÄTH, Rangsdorf, Germany. Filed July 13, 1926, Serial No. 122,266, and in Germany July 22, 1925. 4 Claims. (Cl. 260—15.)

1. Process for the preparation of arsenic compounds containing the group —As=As— which comprises reducing an organic arsonic acid in the presence of an organic arsine containing the group $-AsH_2$ by means of a reducing agent.

1,678,761. AXLE GAUGE. ROY P. BERNHARDT and VICTOR D. BLACK, Jr., Livermore, Calif. Filed Dec. 8, 1926. Serial No. 153,412. 3 Claims. (Cl. 33—193.)



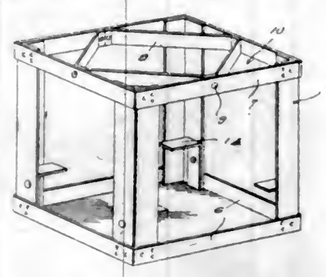
1. In a gauge of the character described, a supported member having a sector mounted transversely at one end thereof, a second member mounted co-axially with and revolvable relative to the first member and having a pointer movable over said sector and a second sector co-planar with the second member and a third member pivoted to the second member having a pointer movable over the second sector and having a gauge element associated therewith.

1,678,762. GOLF REGISTER. BERNHARD M. BESKOW, New Haven, Conn. Filed June 13, 1923. Serial No. 645,093. 6 Claims. (Cl. 235—122.)



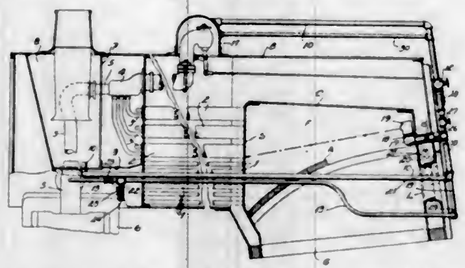
1. In a golf stroke register, the combination with a suitable casing, of a dial pivotally mounted within said casing and provided with numerals, said casing comprising a face plate having an opening through which said numerals may successively become visible as said dial is rotated, a ratchet wheel rotatable with said dial, a returning spring connected with said dial, a lever within said casing, an operating pawl for said ratchet wheel carried by said lever, a detent pawl normally preventing backward movement of said ratchet wheel under the influence of said returning spring, means for yieldingly holding said pawls in engagement with said ratchet wheel, a slide-bar connected with said lever and with both of said pawls and by the movements of which slide bar said ratchet wheel may be operated and the detent pawl be disengaged from said ratchet wheel, and a double-acting, normally-balanced spring engaging said slide bar.

1,678,763. CHEMICAL CAN RACK FOR ICE-CREAM CABINETS. THOMAS P. BOLGER, Gloucester, Mass. Filed Aug. 17, 1927. Serial No. 213,569. 1 Claim. (Cl. 220—1.)



A can supporting rack for ice cream cabinets comprising a substantially square shaped frame composed of a plurality of vertically disposed angle iron corner posts, a pair of strips of strap iron arranged in spaced relation about the outer edges of said corner posts, whereby to form continuously extending upper and lower horizontal frame members, an inner horizontal, substantially square shaped frame member formed of a strip of strap iron having its corners attached to the inner side of said upper horizontal frame member approximately midway of the corner posts, whereby to form substantially triangular shaped compartments between said inner and outer upper frame members and adapted to receive a triangular shaped container within each of said compartments, the area defined by the inner upper frame member being adapted to vertically support an ice cream can, and a supporting bracket carried by each of said corner posts above the lower end thereof, and extending inwardly of said compartment.

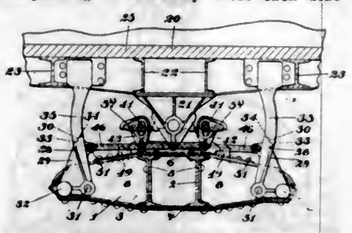
1,678,764. SMOKE CONSUMER AND SOOT BLOWER. WILLIAM D. BOYCE, New York, N. Y. Filed Mar. 6, 1926. Serial No. 92,883. 4 Claims. (Cl. 110—80.)



1. In combination with a locomotive boiler and firebox, the latter being bounded on the top by a crown-sheet, on the rear by a water-leg and on the front by a flue-sheet, suitable openings in the water-leg for admitting atmospheric air to the fire-box, a jet nozzle disposed in said fire-box above the arch and in close proximity to the crown-sheet, said nozzle being arranged to direct a jet of steam toward the flue-sheet, means for adjusting said nozzles to any position in three planes to vary the line of steam projection, and suitable connections between said nozzle and locomotive steam pipe for supplying steam to the nozzle.

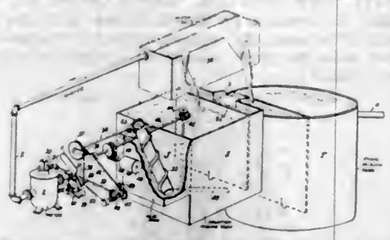
1,678,765. DUMP CAR. WILLIAM L. BURNER, Koppel, Pa., and OSCAR E. KANTENWEIN, Oak Park, Ill., assignors to Koppel Industrial Car and Equipment Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 21, 1925. Serial No. 51,582. 22 Claims. (Cl. 105—271.)

1. In a dump car, an underframe, a body mounted on said underframe and tiltable toward one side or the other thereof, pressure operated means on each side of the longitudinal center line of the car for operating said body, each of said means comprising a pressure cylinder, a member depending downwardly from each side of said



body, one of said members being adapted to be engaged by one of said means for tilting said body toward one side, and the other of said members being adapted to enter the cylinder of the other of said means when the body is being tilted.

1,678,766. PROCESS OF AND APPARATUS FOR TREATING WATER. GEORGE CAWLEY, Montclair, N. J., assignor to The Permutit Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 7, 1926. Serial No. 153,147. 9 Claims. (Cl. 210—29.)

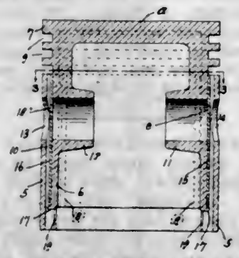


1. The process of adding accurately proportioned amounts of acid to water which comprises measuring a continuously flowing body of water, dividing the flow into a major portion and a minor portion, adding to and mixing with the minor portion a regulated amount of acid proportionate to the flow of water, and then uniting the acid-treated minor portion with the major portion of the water.

1,678,767. PROCESS OF MAKING ALKALI-METAL HYDROXIDES. LEO P. CURTIN, Freehold, N. J. Filed Apr. 24, 1926, Serial No. 104,481. Renewed Jan. 17, 1928. 2 Claims. (Cl. 23—185.)

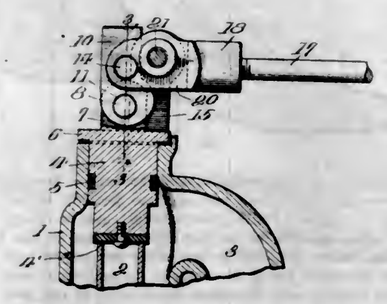
1. Process of making alkali-metal hydroxides comprising agitating an aqueous suspension of lead monoxid while adding an alkali-metal sulfid, and regulating the rate of supply of sulfid to avoid substantial accumulation of sulfid ions in solution.

1,678,768. PISTON. LEWIS R. DAVIS, San Francisco, Calif. Filed May 3, 1926. Serial No. 106,503. 5 Claims. (Cl. 74—108.)



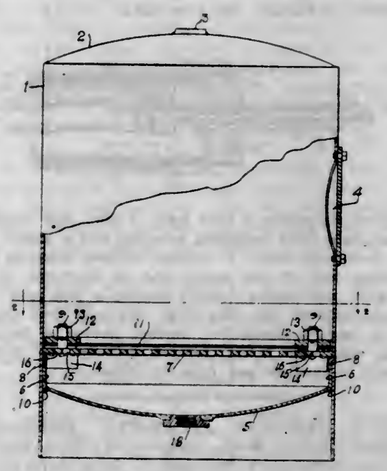
1. A piston comprising a head having an integral reduced lower end portion constituting an inner skirt, an outer skirt conforming in cross-sectional area to the head and surrounding the inner skirt and disposed in spaced relation thereto, a rib disposed in the space between the outer and inner skirts and rigidly secured thereto for supporting the outer skirt and operating to conduct heat from the inner to the outer skirt, the said inner skirt being interiorly provided with oppositely disposed open-ended wrist pin bearings and the outer skirt having wrist pin openings alining with said bearings, and plates disposed in the space between said outer and inner skirts and arranged over the outer ends of said bearings.

1,678,769. FLOAT VALVE. EDWARD L. DELANY, Brooklyn, N. Y. Filed Apr. 11, 1927. Serial No. 182,918. 12 Claims. (Cl. 137—104.)



4. A float valve comprising a casing, a cast valve therein having an upwardly extending reduced portion provided with cast trunnions, a cast compensating link adapted to receive said trunnions, and having trunnions cast therewith, a cast float lever pivotally connected to the casing, and adapted to receive the trunnions carried by the compensating link.

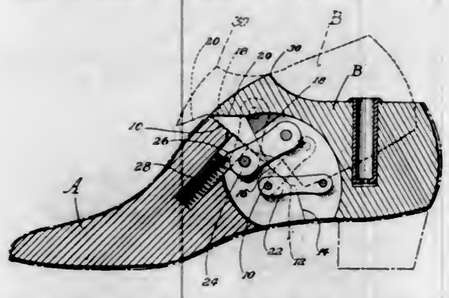
1,678,770. TANK. CHARLES P. EISENHAUER, Dayton, Ohio, assignor to The Duro Company, Dayton, Ohio, a Corporation of Ohio. Filed Oct. 12, 1925. Serial No. 61,994. 4 Claims. (Cl. 210—149.)



1. In a method of manufacturing tanks, attaching a grating to the inside flange of the end of a tank, inserting the grating and end within one end of the tank, attaching the end to the tank, galvanizing the tank and end,

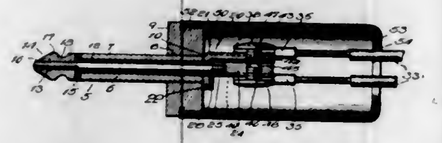
inserting a screen through a hand hole in the side of a tank, placing the screen upon said grating so as to cover substantially the entire area thereof and removably fastening the screen to said grating.

1,678,771. LAST. GUY B. FITZ, Auburn, Me., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed May 14, 1925. Serial No. 30,209. 1 Claim. (Cl. 12—136.)



A hinge last comprising a heel part and a forepart relatively constructed and arranged to provide a full cone having a substantially continuous surface along the front upper portion of the last from the ball to the tip of the cone when the last is extended, the upper rear face of the forepart being in a plane intersecting said continuous surface and the upper front face of the heel part being in two intersecting planes forming a recess in said face, and bonding mechanism comprising two links, one above the other, each pivoted in both last parts, and constructed and arranged to effect relative movement of the heel part and the forepart, so arranged as to bring the upper rear face of the forepart substantially into the lower of the planes forming the recess while the upper rear edge of the forepart is substantially grazed by the portion of the front surface of the heel part in the upper of the two planes forming the recess.

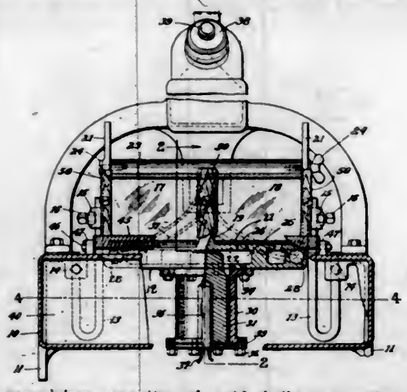
1,678,772. TELEPHONE PLUG. HERBERT H. FROST, Chicago, Ill., assignor, by mesne assignments, to Chicago Telephone Supply Company, Elkhart, Ind., a Corporation of Delaware. Filed Dec. 1, 1924. Serial No. 753,031. 1 Claim. (Cl. 173—361.)



A plug comprising a plub body, a plug post extending through said body including a needle and a sleeve insulated from each other, a terminal bracket threaded upon the inner end of the needle and in electrical contact therewith, an angular bracket having a base and a leg clamped between the plug body and said first bracket, and an angular insulating bracket having a base and a leg, said base being clamped between the terminal brackets to insulate one from the other.

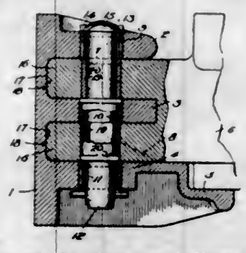
1,678,773. TREATING APPARATUS. FREDERICK M. FURBER, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 8, 1923. Serial No. 661,683. 19 Claims. (Cl. 12—1).

1. A treating apparatus comprising a flash-boiler and a water reservoir both open to the atmosphere and in communication with each other and arranged to hold the water in equilibrium when the boiler is not functioning,



the vaporizing capacity of said boiler exceeding the maximum rate of flow of water from the reservoir to the boiler.

1,678,774. CAR COUPLER. ENOCH GEORGE, Jr., Pittsburgh, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 29, 1926. Serial No. 119,393. 3 Claims. (Cl. 213—6.)



1. In a device of the character indicated, the combination with a coupler pocket having a plurality of pivot lugs disposed with relation to each other so as to provide a plurality of intervening spaces for receiving corresponding portions of the shank of a car coupler, of a car coupler having spaced pivot lugs meshing with said lugs of the coupler pocket, bushings respectively associated with said pivot lugs, said bushings and lugs having shouldered engagement, and a pin extending through said lugs and bushings for pivotally connecting the coupler pocket and car coupler, said spaces between the lugs of the coupler pocket being of greater height than the vertical thickness of the pivot lug intervening between said spaces.

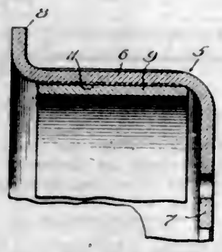
1,678,775. STORAGE AND TRANSPORTATION OF ACID MIXTURES IN STEEL DRUMS. JAMES H. GRAVELL, Elkins Park, Pa. Filed Dec. 11, 1925. Serial No. 74,898. 8 Claims. (Cl. 23—5.)

5. A composition of matter for preventing the action of acid solutions on steel drums comprising an admixture of a metal below iron and above mercury in the electromotive series and an acid regulator.

1,678,776. METAL PICKLING. JAMES H. GRAVELL and ALFRED DOUTY, Elkins Park, Pa.; said Douty assignor to said Gravell. Filed Nov. 12, 1926. Serial No. 148,093. 14 Claims. (Cl. 148—8.)

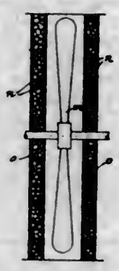
1. An acid pickling bath for metal containing stannous tin in limited quantity substantially as described sufficient to selectively control the bath and insufficient to cause the bath to dissolve scale.

1,678,777. BRAKE DRUM AND LINER. FREDERICK D. HANSEN and HERBERT W. TINKER, Milwaukee, Wis., assignors to Federal Pressed Steel Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 15, 1927. Serial No. 219,635. 13 Claims. (Cl. 188—218.)



1. A brake drum provided with a flange having a high coefficient of expansion and a liner having a relatively low coefficient of expansion and partially insulated from said flange so that the liner and flange expand and contact together substantially the same extents.

1,678,778. APPARATUS FOR CARRYING OUT CHEMICAL REACTIONS BETWEEN GASES OR VAPORS, OR GASES AND VAPORS. HANS HARTER, Wurzburg, Germany. Filed July 27, 1926, Serial No. 125,306, and in Germany Mar. 5, 1925. 2 Claims. (Cl. 23—288.)



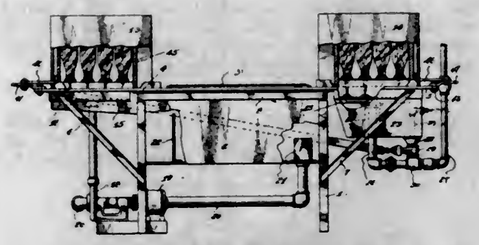
1. Apparatus for carrying out reactions between gases or vapors or gases and vapors comprising a propeller carrying a catalytic material and adapted to aspirate, subdivide and mix the said gases and vapors, means for supplying gases or vapors to the said propeller, and means for conducting away the reaction products.

1,678,779. DENTIAL BRIDGE. CLIFFORD S. KILE, Hutchinson, Kans. Filed Dec. 31, 1925. Serial No. 78,599. 10 Claims. (Cl. 32—9.)



1. A dental bridge having an artificial-tooth retaining-shell open only at its outer side and its gum side, said shell having an inner wall portion, a pair of opposed side walls divering outwardly from said inner wall portion, and an inclined wall portion extending outwardly from and at an obtuse angle to said inner wall portion, said side walls having ribs on their inner faces spaced from and substantially parallel with said inclined wall portion, said ribs increasing in height from their outer to their inner ends; and an artificial tooth whose body portion is fitted snugly into said shell and is provided with tapered grooves receiving said ribs, said tooth projecting beyond the shell for engagement with the gum, the portion of the tooth thus projecting being of substantially the same cross-sectional size as the corresponding portion of the natural tooth which it replaces, said shell having an occlusal portion covering and protecting the occlusal or biting end of the artificial tooth, the latter having vertical edge portions extending across the outer edges of said side walls.

1,678,780. BOTTLE WASHING, RINSING, AND STERILIZING APPARATUS. JOHN W. LADD and CARL C. JORDAN, Detroit, Mich., assignors to John W. Ladd Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 18, 1927. Serial No. 176,316. 12 Claims. (Cl. 141—7.)

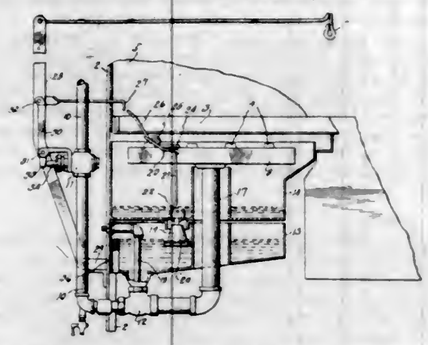


1. In apparatus of the character described, a header having a plurality of nozzles, a support for a bottle case thereabove, an open ended hood into which a case of bottles may be introduced, a steam line connected with the said header, a valve in the steam line, a tank enclosing the header, said tank being provided with an overflow whereby it may contain only a limited volume of water, a discharge conduit in the bottom of the tank, a valve therein, an ejector in the steam line with which the discharge conduit discharges, a cold water inlet discharging into the said tank outlet, means whereby the positioning of a bottle case over the header automatically opens the steam valve whereby when the outlet valve is open the ejector continuously discharges the water of the tank and steam into and about the said bottles and on closing of the valve of the discharge conduit causes the water to cease to flow and steam only is discharged into and about the bottles, and means for ejecting the case from position over the sterilizing header and simultaneously closing the steam valve.

1,678,781. BOTTLE-WASHING MACHINE. JOHN W. LADD, HENRY B. WILLIAMS, and CARL C. JORDAN, Detroit, Mich., assignors to John W. Ladd Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 18, 1927. Serial No. 176,350. 11 Claims. (Cl. 141—7.)

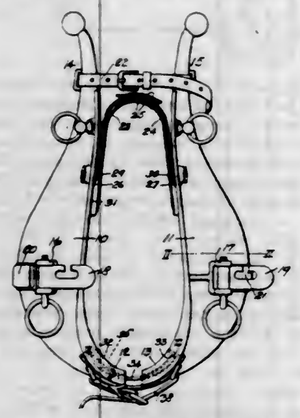
1. In a bottle washing machine, an upper reservoir, a lower reservoir adapted to contain a definite amount of water, a track over the upper reservoir by means of which a case containing bottles in inverted position may be moved over the upper reservoir, a spray-head having a multiplicity of jets corresponding to the number of bottles in the case and adapted to discharge into the bottles, a steam operated ejector adapted to withdraw the water from the lower reservoir and discharge it through the jets of the spray head, a valve for controlling flow of steam to the ejector, a control member for the said valve adapted to be actuated by the case to open the valve as the case is moved into position over the spray head, the upper reservoir providing a recepta-

cle for the water falling from the bottles and having an outlet discharging into the lower reservoir, a valve controlling the said outlet and an actuating member for the said valve adapted to be engaged by the bottle case,



the arrangement being such that as the case is moved to position over the spray head the steam valve is opened and the outlet valve is closed and upon withdrawal of the case the outlet valve is opened.

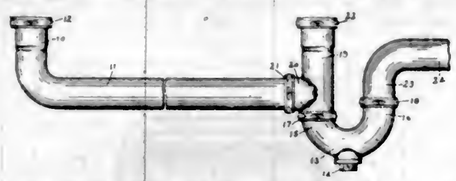
1,678,782. COMBINATION COLLAR AND HAME. JOHN D. MCMURRY, Memphis, Tenn. Filed July 25, 1927. Serial No. 208,202. 6 Claims. (Cl. 54—18.)



1. In a combination collar and hame, two oppositely disposed halves of rigid material, each having the lower portion shaped to conform to an animal's neck and shoulder, top and bottom draft fastenings for the said halves, and a support comprising oppositely disposed flexible bands of substantial width, means joining said bands at the top, a metal plate attached to each of the said bands and a pivot extending through each of the said plates to attach the same to one of said halves.

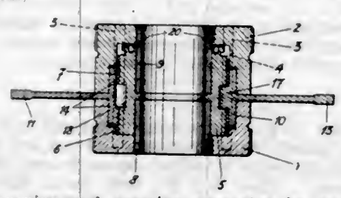
1,678,783. WASTE CONNECTION. ERASTUS G. OAKLEY, Southport, Conn., assignor to Bridgeport Brass Company, Bridgeport, Conn. Filed Mar. 22, 1927. Serial No. 177,330. 1 Claim. (Cl. 182—18.)

A combined sink and tray waste comprising a T member having a vertically disposed inlet for connection with the outlet of a sink or tray and a horizontally disposed inlet for connection to the outlet of the other of said members, a U shaped trap member, a swivel connecting one end of the U shaped member to the outlet of the T member, said swivel being carried closely adjacent the horizontally disposed inlet, an L shaped outlet member, a second swivel connecting the other end of the U member to said L shaped outlet, said second named swivel being carried above the first named swivel, whereby when standard types of L fittings are secured



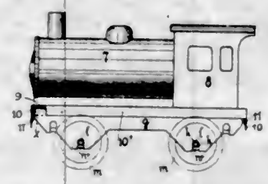
to said second named swivel the outlet portion of the L member will be above the horizontal inlet of the T member, whereby the latter may be sealed by the water in the trap.

1,678,784. TONGUING AND GROOVING APPARATUS. WILHELM OHNO, Seebach-Zurich, Switzerland. Filed July 9, 1927. Serial No. 204,609. 5 Claims. (Cl 144—233.)



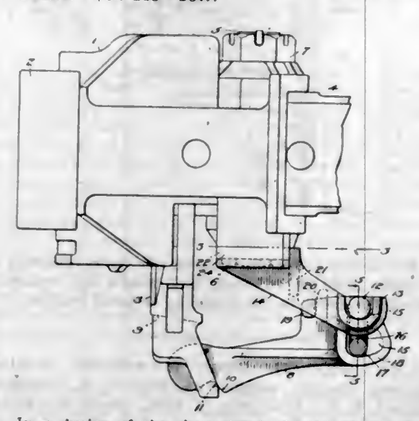
1. A tonguing and grooving apparatus by means of which grooves and tongues of different widths can be produced accurately and cleanly, comprising in combination a threaded cylinder having left-handed and right-handed threads and a circular groove between said threads, a casing in which said cylinder is rotatably mounted, a milling blade composed of three parts, one of said parts engaging with the left-handed thread, another of said parts engaging with the right-handed thread, a projection on the inner surface of the parts and guided in said circular groove of said threaded cylinder so that by rotating said cylinder said parts of the milling blade are moved towards and away the one from the other in the axial direction according to whether narrower or wider tongues and grooves have to be cut.

1,678,785. TOY VEHICLE. HANS PFAFFENBERGER, Nuremberg, Germany. Filed Mar. 31, 1927, Serial No. 179,976, and in Germany Apr. 10, 1926. 3 Claims. (Cl. 46—48.)



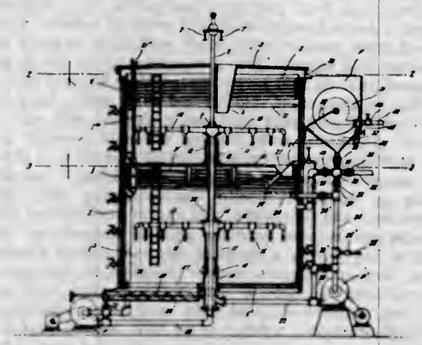
1. An under-frame for toy vehicles running on roads and for toy vehicles running on rails, a downwardly directed flange on each long side of said under-frame said flange having two pairs of slots upwardly extending from the lower edge of said flange and forming at the upper end one half of an axle bearing the slots of the one pair being spaced at other distance and being of other height than the slots of the other pair, a slidable plate on said under-frame, a downwardly directed flange on each long side of said plate said flanges having each two pairs of angular slots open at the lower end each slot composed of a vertical arm and of an upper horizontal arm forming together a locking nose the vertical arms of said slots being spaced at the same distance and being of the same height as the vertical arm of the corresponding slots in said flanges of said under-frame, said under-frame and slidable plate adapted to combine selectively with either one of a plurality of sets of wheels to represent the wheel sets for vehicles running on roads or on rails said sets of wheels being locked in position by the noses of the corresponding slots, and with either one of a plurality of carriage bodies to represent any kind of vehicles running on roads or on rails, and means for securely holding a carriage body on said under-frame.

1,678,786. COUPLER RELEASE RIGGING. WILLIAM J. REGAN, Wilkinsburg, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 24, 1925. Serial No. 45,909. 7 Claims. (Cl. 213—167.)



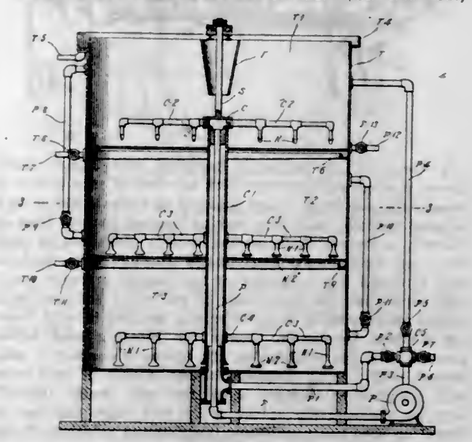
1. In a device of the character indicated, the combination with a car coupler involving a head, a knuckle and means for locking said knuckle in closed position, of mechanism for moving said knuckle locking means to unlocked position, said mechanism including a pivoted member which engages and is adapted to actuate said means, and means forming a stop for cooperating with said pivoted member to prevent said knuckle locking means for accidentally assuming unlocked position, said knuckle locking means being movable with respect to said stop means and the latter being adapted to cooperatingly engage said pivoted member at a point intervening between the pivot of said member and its point of engagement with said knuckle locking means.

1,678,787. LEACHING APPARATUS. WALTER L. REMICK, Philadelphia, Pa. Filed Sept. 17, 1925. Serial No. 56,916. 3 Claims. (Cl. 23—268.)



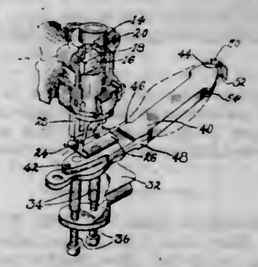
1. In an apparatus for the removal of soluble constituents of solids, the combination of means for passing the solids through a solution in two successive stages; means for filtering the solution; means for re-introducing the filtered solids into the unfiltered solution at a point at which the solids are passing through said solution in the secondary stage; and means for re-introducing the filtered solution into the unfiltered solution at a point at which the solids are passing through said solution in the primary stage.

1,678,788. PROCESS OF AND APPARATUS FOR THE TREATMENT OF SOLID-BEARING LIQUIDS. WALTER L. REMICK, New York, N. Y. Filed May 10, 1926. Serial No. 108,042. 4 Claims. (Cl. 210—55.)



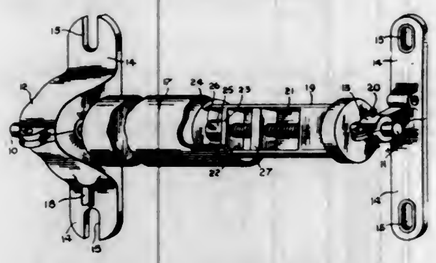
1. A process for the treatment of solid bearing liquids which consists in circulating the liquid in a receptacle by withdrawing a portion of the liquid from the upper part of the receptacle and discharging it into the lower part of the receptacle; allowing the solids in the liquid to settle upon the bottom of the receptacle; withdrawing a portion of the liquid from the receptacle and discharging it into the lower part of a second receptacle; allowing the solids in the liquid in the second receptacle to settle upon the bottom of the second receptacle; withdrawing the settled solids from the bottom of the second receptacle; commingling the solids withdrawn from the second receptacle with the settled solids in the first receptacle; and withdrawing the commingled solids from the first receptacle.

1,678,789. WORK LOCATING AND PUNCHING APPARATUS. ERNEST E. SABIN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 22, 1922. Serial No. 608,573. 8 Claims. (Cl. 164—90.)



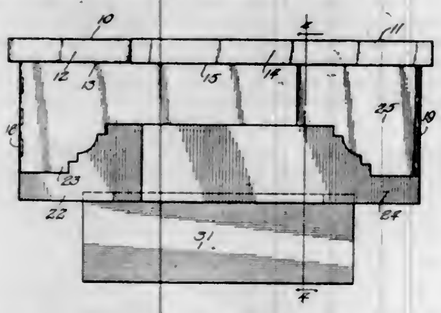
1. In apparatus of the character described, a punch, a sole positioning member arranged in predetermined relation to the punch and having an outside contour coinciding at one or more places with the inside contour of the rib of an insole, and means for reciprocating the punch to form a locating hole in an insole positioned by said member.

1,678,790. AWNING-ROLLER AUTOMATIC STOP. JOSEPH T. SALESSE, Ottawa, Ontario, Canada. Filed Feb. 2, 1926. Serial No. 85,461. 1 Claim. (Cl. 156—44.)



A device of the character described including a roller sleeve, a shaft section rigid with one end of said sleeve, a removable core fitted in the opposite end of said sleeve and secured thereto, said core having spaced pockets formed therein, a second shaft section loosely journaled in said core and extending longitudinally through said pockets and threaded for a portion of its length, brackets bearings supporting the outer ends of said shaft sections, said second shaft section being normally secured in said bearing against movement, means for rotating said roller sleeve and a nut working on the threaded portion of said second shaft, being disposed in one pocket of said core and adapted to contact with the side walls thereof, whereby the rotation of the roller will cause the nut to travel on said shaft, said nut limiting the rotation of the roller upon contact with the end walls of said pocket, said second shaft being releasable from its bracket bearing to permit adjustment of said nut on said shaft.

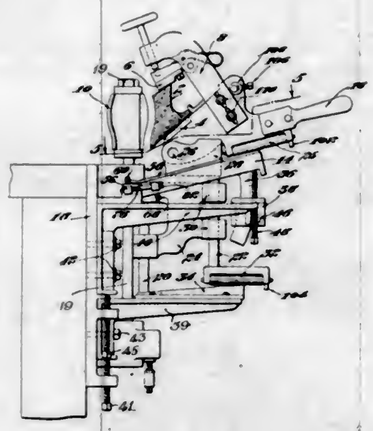
1,678,791. COLLAPSIBLE RADIATOR COVER. LESTER J. SCHRAM, Chicago, Ill. Filed Aug. 4, 1927. Serial No. 210,614. 3 Claims. (Cl. 237—79.)



1. In a radiator cover, the combination of a telescoping top member, telescoping front and back members, end members hinged to the front and back members, and means for detachably securing the end members to the top members.

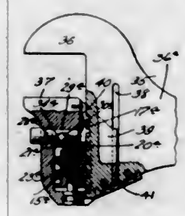
1,678,792. MACHINE FOR TURNING WOOD HEELS. WESLEY J. SHAW, Haverhill, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 28, 1923. Serial No. 628,200. 14 Claims. (Cl. 12—87.)

1. A machine of the class described having, in combination, a frame, a cutter, a jack adapted to swing vertically and horizontally about the cutter to present different portions of an article clamped thereby to the cutter, a cam track for controlling the vertical swinging movement of the jack, along which cam track the jack is adapted to swing, removably mounted upon the frame,



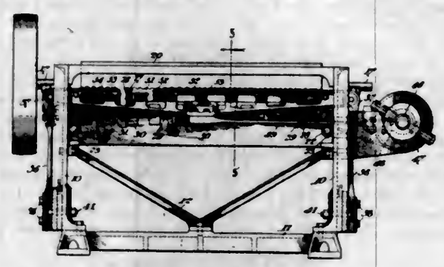
means whereby the inclination of the track relatively to the frame may be adjusted, and means for releasably securing the track to the frame in adjusted position.

1,678,793. WRENCH. HENRY W. SWITZER, Hamilton, Ontario, Canada, assignor to William H. Heimbach, Snyder, N. Y. Filed Mar. 4, 1926. Serial No. 92,142. 3 Claims. (Cl. 81—165.)



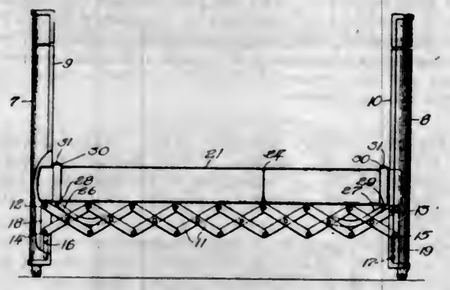
1. In a wrench having a member provided with a fixed jaw, and a movable member having a jaw shiftable toward and from said fixed jaw, the combination of a threaded operating screw journelled on said movable member, teeth on said other member with which said screw engages for actuating said movable jaw, a tapered seat on the latter, a tapered part on said screw engageable with said seat, a flat face on the end of said tapered part, means for yieldingly holding said part frictionally against said seat to prevent said screw from turning and said movable jaw from shifting when pressure is applied thereto in a direction away from said fixed jaw, said movable member having an aperture therein communicating with said tapered seat and into which said end of said tapered part projects, an endwise movable plunger disposed in said aperture and having a recess in one side thereof forming a cam face, a rotatable member disposed in said recess and engaging the side of said tapered screw part and said cam respectively, and said cam being adapted to move said cotatable member along said tapered part and upon said end face thereof to move said part away from said tapered seat upon endwise movement of said plunger, whereby said movable jaw may be moved away from said fixed jaw.

1,678,794. COTTON GIN. GUS ELLIS TALLEY, Phoenix, Ariz., assignor of one-half to William Alanzo Bennett, Phoenix, Ariz. Filed Dec. 7, 1926. Serial No. 153,163. 9 Claims. (Cl. 19—51.)



1. In a cotton gin of the character set forth, the conbination with a rotatable gin roller and means for rotating it in a predetermined direction, of a stationary upstanding knife member having its upper edge located along the downwardly moving face of the roller, an upstanding longitudinally movable stripper blade located alongside the knife member, means for reciprocating the stripper blade, a feed table for delivering seed cottom to the downwardly moving face of the roller over the upper edges of the knife and stripper blade, said table being movable with the stripper blade, said downwardly moving face of the roller acting to draw the fiber downwardly over the upper edges of the knife member and stripper blade, and means for mounting the table and knife in spaced relation to permit the seed to pass between them.

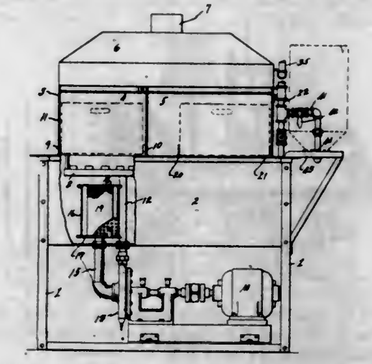
1,678,795. BED. MINIFRED DAWES THOMAS, Chicago, Ill. Filed June 9, 1927. Serial No. 197,631. 7 Claims. (Cl. 5—182.)



1. The combination with the head and foot of a bed, of side members comprising lazy tongs, means for connecting the lazy tongs with the head and foot to permit the head and foot to be moved toward and away from each other, a series of transverse slats carried by said side members, a hinged mattress adapted to be supported in horizontal position by said slats and means operatively connected to the side members for raising the ends of the mattress when the head and foot are moved toward each other.

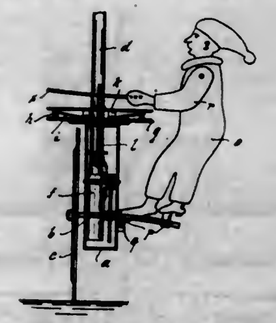
1,678,796. BOTTLE-WASHING MACHINE. HENRY B. WILLIAMS, Detroit, Mich., assignor to John W. Ladd Co., Detroit, Mich., a Corporation of Michigan. Filed July 26, 1926. Serial No. 124,844. 10 Claims. (Cl. 141—7.)

1. A milk bottle washing machine consisting of a tank for cleansing solution, a hood mounted thereabove at about the upper surface thereof and at the rear side providing space in front of the hood for access to the tank, the said hood being provided with a partition dividing it in two chambers each open at the bottom and at the front side, guideways therein for bottle cases, spray heads beneath each guideway, the spray head under the first guideway being for a cleansing solution, means for circulating fluid from the tank and discharging it through the head from which it may fall again into the tank and a sterilizing head beneath the other section, a steam line



connected therewith, and means operable by contact with a bottom case positioned under the hood for opening the steam line.

1,678,797. SPARK-PRODUCING FIGURE WHEELED TOY. CARL ARNOLD, Nuremberg, Germany. Filed Sept. 29, 1927. Serial No. 222,907. 2 Claims. (Cl. 46—45.)

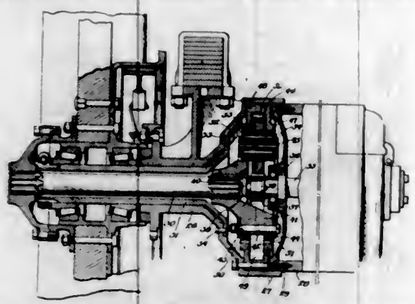


1. A toy consisting of a trundle hoop, comprising in combination with the hoop, a casing, a horizontal shaft journaled in said casing projecting at both ends from said casing carrying said hoop on one end and bent at the other projecting end, a driving mechanism in said casing comprising a vertical driven shaft projecting from the top end of said casing, a spark-producing mechanism above said driving mechanism consisting of a disk fixed on the top end of said casing, of a disk fixed on the projecting end of said vertical shaft, oscillatable levers attached to the lower side of said rotatable disk, a cerium stone at the outer end of each lever resting upon said emery disk, coloured transparent panes in said rotatable disk, a toy-figure on the bent projecting portion of said horizontal shaft, and a driving rod adapted to trundle said hoop and to operate said driving mechanism and said spark-producing mechanism and to impart to said toy-figure on said bent portion of the driving shaft up and down and backward and forward movements.

1,678,798. ART OF AND MEANS FOR EFFECTING POWER TRANSMISSION. AXEL HJ. ASPROOTH, Baltimore, Md., and ALFONSO M. LEONI, Philadelphia, Pa., assignors to Electro-Motive Devices, Inc., Philadelphia, Pa., a Corporation of New Jersey. Filed Feb. 27, 1923. Serial No. 621,581. 2 Claims. (Cl. 74—7.)

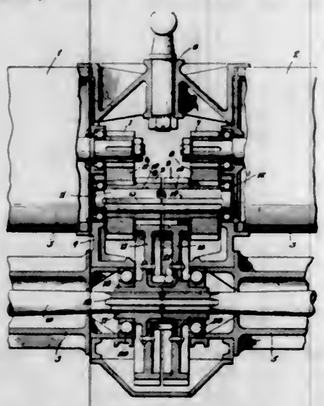
1. A vehicle drive embodying a centered driving shaft, a centered driven shaft, a standard hub, a motor casing, an intermediate housing having a shoulder opposite the motor casing, a bell shaped stiffening core or spindle for the

housing, an internal gear rigidly secured between said shoulder and the motor casing, a driving spider splined to the driven shaft, compound planets journaled in the



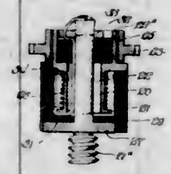
spider in operative relation with the internal gear, a driving pinion, and a bushing for centering the pinion to maintain uniformity of pitch line contact.

1,678,799. TWO-MOTOR DRIVE FOR VEHICLES. AXEL HJ. ASPROOTH, Baltimore, Md., and ALFONSO M. LEONI, Philadelphia, Pa., assignors to Electro-Motive Devices, Inc., Philadelphia, Pa., a Corporation of New Jersey. Filed Apr. 12, 1923. Serial No. 631,566. 6 Claims. (Cl. 74—7.)



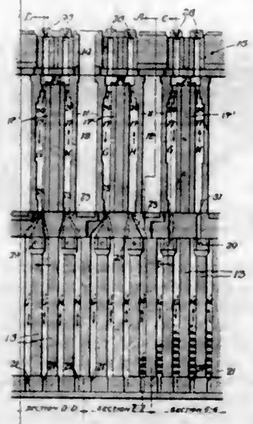
1. In a two-motor drive for vehicles, motor pinions, an axle, final drive gears cooperating with the axle, and intermediate gearing including a rotatable countershaft, independent gear sets, and means for coupling one of the gear sets relatively to the countershaft.

1,678,800. HEAT COIL. JOHN S. BAKER, Chicago, Ill., assignor to The Cook Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 27, 1922. Serial No. 590,788. 16 Claims. (Cl. 200—124.)



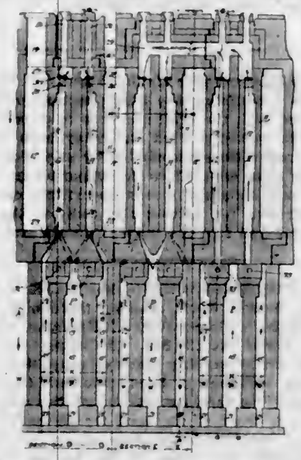
1. A heat coil comprising a main supporting member, a second member surrounding said main member and thermally insulated therefrom, heat producing means upon said second member, an actuator, a fusible material securing said actuator to said second member whereby, when the fusible material is softened, the said actuator may move relatively to said second member.

1,678,801. COKING RETORT OVEN. JOSEPH BECKER, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 28, 1921. Serial No. 440,645. 19 Claims. (Cl. 202—9.)



1. In a coking retort oven, in combination: a plurality of parallel coking chambers; heating walls between and contiguous to such coking chambers and respectively constituted of two parallel series of vertical combustion flues, the individual combustion flues of one series being individually connected with the individual combustion flues of the other series of the same heating wall; individually regulable and reversible regenerators parallel with the coking chambers and the heating walls, such regenerators being communicably connected in pairs with each series of such combustion flues, the pairs of such regenerators being individual to the series of combustion flues with which they are connected; and means for separately controlling the individual flow through individual regenerators and their connected series of combustion flues; substantially as specified.

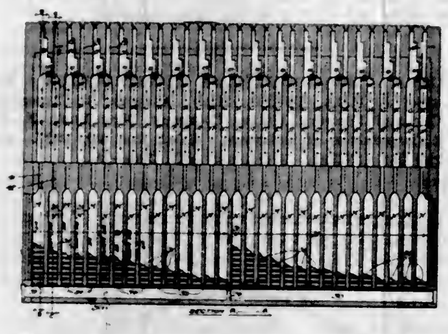
1,678,802. COKING RETORT OVEN. JOSEPH BECKER, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 14, 1921. Serial No. 452,238. 28 Claims. (Cl. 202—9.)



1. In a coking retort oven, in combination: a plurality of coking chambers; heating walls contiguous to such coking chambers and respectively constituted of two

parallel series of vertical combustion flues; tapered horizontal flues in each heating wall and respectively connecting a plurality of the combustion flues of each series of their respective heating walls; the horizontal flues of both series of each heating wall being also communicably connected with the corresponding horizontal flues of an adjacent heating wall; individually regulable and individually reversible and crosswise-extending regenerators parallel lengthwise with the coking chamber and the heating walls, such regenerators being divided into groups of three regenerators each, two regenerators of each group being respectively communicably connected one with the flues of one series and the other with the flues of the other series of an adjacent heating wall, and the other regenerator of each group being connected with both flue-series of the adjacent heating wall; substantially as specified.

1,678,803. COKING RETORT OVEN. JOSEPH VAN ACKEREN, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 16, 1921. Serial No. 469,994. 16 Claims. (Cl. 202—9.)



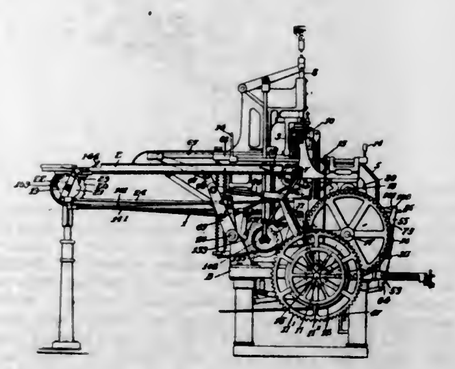
1. In a coking retort oven, in combination: a plurality of coking chambers; heating walls contiguous to such coking chambers and respectively constituted of vertical combustion flues disposed into two groups, the flues of one group alternating with the flues of the other and one group of such flues operating for inflow while the other group operates for outflow; and a regenerative system embodying two series of regenerators, one series of such regenerators being communicably connected with groups of such flues and the other series of regenerators being individual to and communicably connected with individual flues, the two series of regenerators being jointly operable for conveying air to the flues or separately operable for conveying to the said flues air and an extraneously derived gas; substantially as specified.

1,678,804. SHINGLE HOLDER. CORTLANDT F. AMES, Jr., Mount Vernon, N. Y., assignor to The Barrett Company, a Corporation of New Jersey. Filed Jan. 31, 1924. Serial No. 689,703. 12 Claims. (Cl. 108—7.5.)



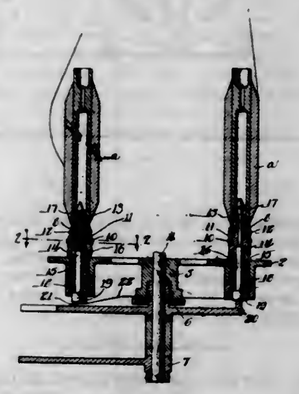
1. In a device for holding shingles, a metallic element having an intermediate portion adapted to lie on the top side of a shingle and aligned portions to lie on the bottom side of said shingle and having strap-like projections extending therefrom.

1,678,805. PACKAGE-LABELING MACHINE. JAMES A. BUTLER, Needham, Mass., assignor to Pneumatic Scale Corporation, Ltd., Norfolk Downs, Mass., a Corporation of Massachusetts. Filed Apr. 27, 1923. Serial No. 635,169. 69 Claims. (Cl. 216—54.)



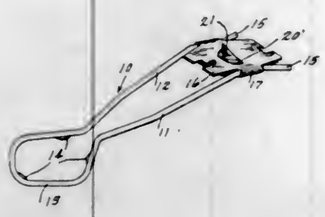
1. In a labeling machine, the combination with a glue drum, a label feeder, a label presser, and mechanism for operating said elements in timed relation to each other, of means for automatically preventing operation of the label presser upon a failure of label placement on the glue drum.

1,678,806. BOBBIN SKEWER. HOWARD D. COLMAN, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Original application filed Jan. 4, 1917, Serial No. 140,561. Divided and this application filed Nov. 19, 1926. Serial No. 149,346. 3 Claims. (Cl. 242—130.)



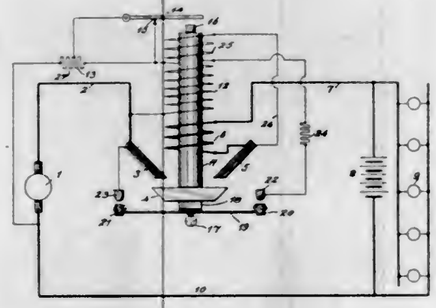
1. A skewer for supporting a yarn carrier and adapted to enter only the lower end of the carrier, said skewer having, in combination, a plurality of longitudinal segments, a contractile ring encircling the segments, and means for separating the segments to expand the skewer into clamping engagement with the carrier at two longitudinally separated points.

1,678,807. COMBINATION TOOL. ROY D. COOPER, Oakland, Calif. Filed Aug. 3, 1927. Serial No. 210,268. 7 Claims. (Cl. 7—1.)



1. A combination tool comprising a resilient member having substantially parallel arms, a holding plate attached to said arms, said holding plate having a central aperture therein, a punch extending through said aperture, and a sharpening plate overlying said holding plate and punch for maintaining said punch in place, said sharpening plate being frictionally held on said holding plate.

1,678,808. ELECTRIC SYSTEM. JOHN L. CREVELING, near Tucson, Ariz., assignor, by mesne assignments, to Simplex Equipment Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 7, 1925, Serial No. 73,538. Renewed May 9, 1928. 5 Claims. (Cl. 171—313.)

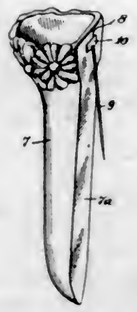


1. The combination with a generator, a storage battery charged thereby, means for connecting and disconnecting the generator and battery and operating means for said connecting means, of means for determining the point of operation of said connecting means functionally adjusted by said operating means.

1,678,809. METHOD OF PREPARING SMOKED JOINT MEATS. ARTHUR W. CUSHMAN, Winnetka, Ill., assignor to Allied Packers, Inc., Chicago, Ill., a Corporation of Delaware. Filed June 30, 1926. Serial No. 119,754. 5 Claims. (Cl. 99—11.)

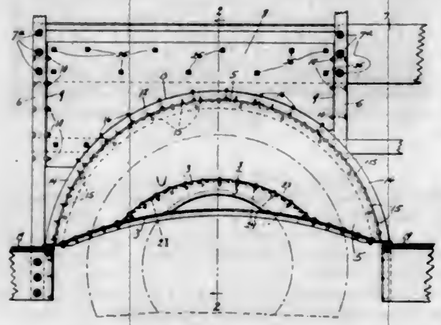
1. A method of preparing smoked meats, which consists in smoking the meat while uncovered, then encasing the meat while still hot and plastic as a result of the smoking operation in a jacket of flexible material, and then suspending the meat in the jacket and permitting it to cool and harden under the shaping pressure exerted thereagainst by the jacket.

1,678,810. RECEPTACLE. WILLIAM H. FULPER, Flemington, N. J. Filed Oct. 22, 1926. Serial No. 143,456. 8 Claims. (Cl. 24—6.)



1. The combination of a receptacle having a recess, a prong element having a depending piercing length and an upper end portion shaped to fit loosely in said recess, and an anchoring means wedged in the recess and about the upper end portion of the prong element.

1,678,811. BUS-BODY-FRAME CONSTRUCTION. ELBERT J. HALL, Detroit, Mich., assignor to American Car and Foundry Motors Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 29, 1927. Serial No. 187,591. 5 Claims. (Cl. 296—28.)



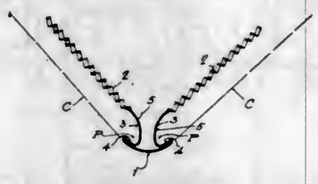
1. In combination, a wheel housing, a pair of vertical body posts adjacent the housing, a semi-circular rail attached to the upper face of the housing, a plate extending to and attached to the posts and having a flange resting upon and attached to the rail.

1,678,812. MOLD FOR COMPOSITE ARTICLES. FRED R. HORNIG, Milwaukee, Wis. Filed Mar. 7, 1927. Serial No. 173,311. 5 Claims. (Cl. 18—36.)



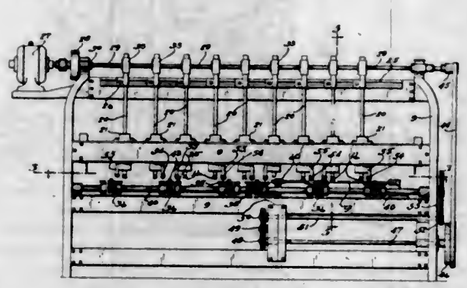
1. In a mold for plastic material, the combination with a hollow fixture provided with corrugated walls and adapted to be permanently embedded in the plastic material, of a jack for releasably positioning said fixture and provided with a resilient protuberance for registry with the corrugations in the wall of the fixture.

1,678,813. CORNER BEAD. EDMUND H. JONES, Milwaukee, Wis., assignor to Milwaukee Corrugating Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 28, 1927. Serial No. 187,139. 1 Claim. (Cl. 72,121.)



A device of the character described comprising a broad rounded body plate of substantially arcuate form in cross section and constituted of imperforate metal, diverging wings of expanded metal, and connecting portions of unexpanded metal integral with the wings and with the body plate, each connecting portion including an inturned section extending from one margin of the body plate beneath the body plate and positioned close up against the under-face of the body plate although just slightly spaced therefrom, each connecting portion also including a reversely bent and curved section between the inturned section and the associated wing, the connecting portions being spaced from each other whereby clearance is afforded to permit the connecting portions to flex and take up shocks and strains, said connecting portions defining pockets adapted to interlock with the plaster, said pockets terminating at the exposed edges of the body plate.

1,678,814. ROUTING MACHINE. JOHN E. KALGREN, Minneapolis, Minn., assignor to The J. R. Clark Company Minneapolis, Minn., a Corporation of Minnesota. Filed Sept. 17, 1927. Serial No. 220,274. 10 Claims. (Cl. 144—133.)

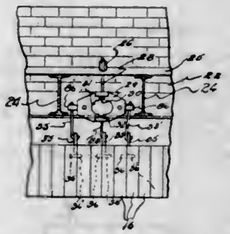


1. A routing machine comprising a router, a feeding device for moving a piece of work having a gauge surface to the router, and a device arranged to be engaged by said surface to cause the work to move transversely of the movement imparted thereto by the feeding device.

1,678,815. LIQUID CLEANING COMPOUND. YOSHITARO KATAYAMA, San Bernardino, Calif. Filed July 7, 1927. Serial No. 204,147. 1 Claim. (Cl. 87—5.)

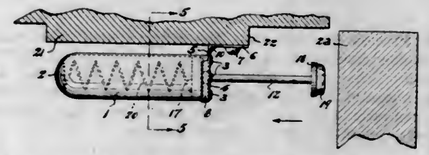
A composition of matter consisting of wild rhubarb root solution, 95%; cedar oil, 1%; and alum solution 4%.

1,678,816. REFLECTOR ARCH FOR FURNACES. JAMES B. KINAHAN, Detroit, Mich. Filed June 6, 1925. Serial No. 35,269. 3 Claims. (Cl. 110—99.)



1. In a furnace arch of the class described, a hanger comprising a main body having a central opening formed therein and provided with diametrically opposite outwardly extending passages, each leading to an opening; and an outwardly projecting hanger arm secured in each of said openings.

1,678,817. DOORCHECK. RUSSELL B. KINGMAN, Orange, N. J., assignor to Useful Products Company, West Orange, N. J., a Corporation of New Jersey. Filed Sept. 7, 1927. Serial No. 217,896. 2 Claims. (Cl. 16—84.)



1. A pneumatic door-check comprising a sheet metal cylinder having an integral closed rear end, a combined sheet metal cylinder-head and supporting bracket, the open end of said cylinder having clinching lugs projecting through and engaged on the external side of said cylinder-head, a piston-member slidable within said cylinder, a piston stem projecting exteriorly through said cylinder-head with its outer extremity adapted to extend beyond a door stop of a door-frame and in the path of movement of a door toward said stop, and a compression spring intermediate the closed rearward end of said cylinder and said piston-member, said combined cylinder-head and supporting bracket being provided in connection with the latter portion with an integral base of predetermined forward extension to act as a gauge in locating the device on a door frame and in proper relation to the door stop thereof.

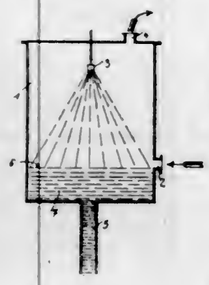
1,678,818. CORSET. JOSEPH J. KISPERT, Branford, Conn., assignor to I. Newman & Sons, Inc., New Haven, Conn. Filed Aug. 9, 1923. Serial No. 656,533. 11 Claims. (Cl. 2—27.)



2. A corset of the character described comprising a body portion having the usual opening, a two-part supplemental vest section, each part of said vest section being

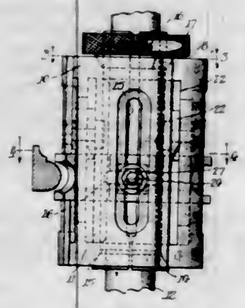
provided with laterally extending tapes secured thereto at both ends, and eyelets arranged interiorly of the body portion of the corset to receive said tapes between said secured ends to slidably connect the vest sections thereto.

1,678,819. PROCESS FOR REMOVING HYDROCHLORIC ACID FROM SUGAR SOLUTIONS. FRITZ KOCH, Geneva, Switzerland, assignor to The International Sugar and Alcohol Company, Limited, London, England. Filed May 9, 1925, Serial No. 29,262, and in Germany May 15, 1924. 7 Claims. (Cl. 127—46.)



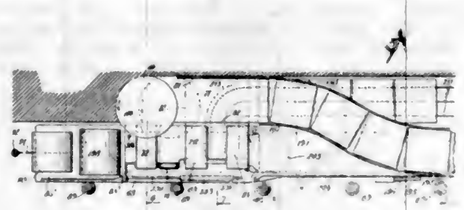
1. Process for removing hydrochloric acid from sugar solutions consisting in heating a fluid heating carrier, spraying the sugar solution, containing the acid, into said nonsolid heating carrier drawing off the volatilized hydrochloric acid and carrying away the fluid heating carrier together with the sugar solution.

1,678,820. CUTTER HEAD. LOUIS T. MEDHOLDT, Rockford, Ill., assignor to Mattison Machine Works, Rockford, Ill., a Corporation of Illinois. Filed Mar. 20, 1925. Serial No. 16,902. 7 Claims. (Cl. 144—230.)



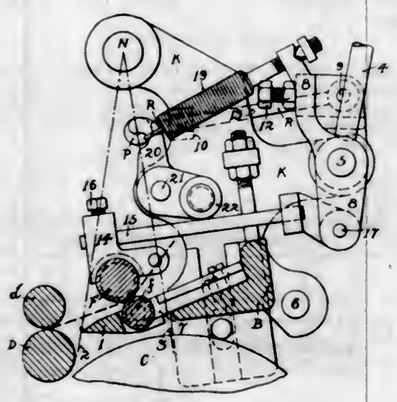
1. A high speed cutter head comprising, in combination, a hollow body having rigid end and side walls and adapted to be mounted upon a supporting spindle, the interior dimensions of said body being substantially greater than the diameter of the spindle, cutting blades having their inner ends lying within the body and their outer ends projecting therefrom, there being openings in the body to permit said blades to pass therethrough, and radial clamping bolts entered perpendicularly through said blades and the side walls of the body for clamping the blades rigidly upon the inner faces of said side walls, the heads of said bolts being disposed between the spindle and the blades upon the inner faces of the body so that the spindle limits inward movement of the bolt.

1,678,821. METHOD AND APPARATUS FOR MINING COAL. EDMUND C. MORGAN, New York, N. Y.; Olive Eugenie Morgan executrix of said Edmund C. Morgan, deceased. Filed Feb. 17, 1923. Serial No. 619,588. 45 Claims. (Cl. 262—9.)



1. In a mining and loading machine, the combination with mining mechanism, of loading apparatus comprising an extensible belt conveyer connected to said mining mechanism to be extended by the feeding movements thereof, a deflector for directing dislodged material from the mining mechanism to said extensible belt conveyer, and means for operating said mining mechanism while moving said deflector along a mine wall and extending said belt conveyer.

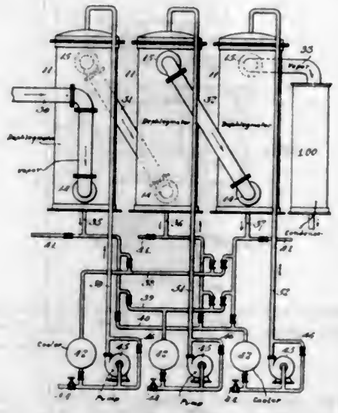
1,678,822. COMBING MACHINE. JOHN WILLIAM NASMITH, Heaton Mersey, Manchester, England. Filed Aug. 9, 1927, Serial No. 211,828, and in Great Britain Mar. 1, 1927. 8 Claims. (Cl. 19—120.)



1. In a combing machine, a swinging nipper plate and a pair of feed rollers adapted to swing with the said plate, the nip of the roller pair being substantially flush with the upper surface of the said plate, and means for imparting rotary motion to the said rollers.

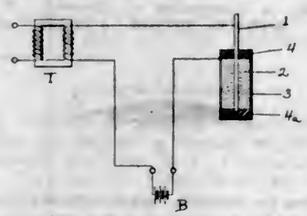
1,678,823. CIRCULATING DEPHLEGMATOR. DANIEL PYZEL, Oakland, Calif., assignor to Simplex Refining Company, San Francisco, Calif., a Corporation of California. Filed Nov. 6, 1919. Serial No. 336,158. 2 Claims. (Cl. 196—140.)

1. In an oil refining system, the combination of: a series of dephlegmators; means for passing oil vapors successively through said dephlegmators; means in said dephlegmators for bringing said vapors into intimate contact with a flowing stream of condensate; means



for withdrawing said condensate from one of said dephlegmators; and means for introducing said condensate into the top of another dephlegmator.

1,678,824. ELECTRIC-CURRENT RECTIFIER. SAMUEL RUBEN, New York, N. Y., assignor to Ruben Rectifier Corporation of Delaware. Filed Apr. 16, 1925. Serial No. 23,582. 7 Claims. (Cl. 175—318.)

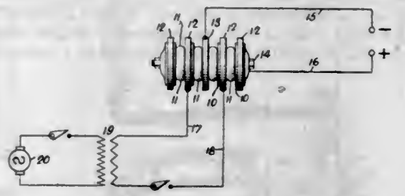


1. In dry surface contact rectifying devices and the like, an asymmetric couple comprising an electro-positive electrode element formed of a metallic body of the fifth periodic group having a relatively high atomic weight, and an electro-negative electrode element formed of a metallic oxide arranged to coperate in the production of an inverse current blocking film and adapted to be disposed in intimate contact with said electro-positive electrode element.

3. In dry surface contact rectifying devices and the like, an asymmetric couple comprising an electro-positive electrode element formed of metallic tantalum and an electro-negative electrode element formed of lead peroxide, said electro-negative electrode being in pulverulent form arranged to cooperate in the production of an inverse current blocking film and disposed in intimate contact with said electro-positive electrode element.

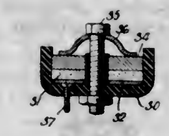
1,678,825. ELECTRIC-CURRENT RECTIFIER. SAMUEL RUBEN, New York, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J., a Corporation of Delaware. Filed Mar. 30, 1927. Serial No. 179,479. 7 Claims. (Cl. 175—318.)

2. In electric current rectifiers and the like, of the dry surface-contact variety, an asymmetric couple having relatively electro-positive and electronegative electrode elements adapted for the electrochemical formation and maintenance at their contacting surfaces of an inverse



current-blocking film, said electronegative electrode element comprising a metallic sulphide and a compound of chromium, alloyed therewith.

1,678,826. ELECTRIC-CURRENT RECTIFIER. SAMUEL RUBEN, New York, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J., a Corporation of Delaware. Filed Apr. 26, 1927. Serial No. 186,606. 8 Claims. (Cl. 175—318.)



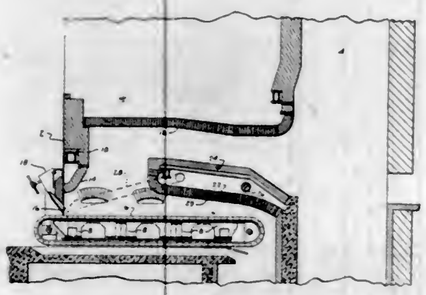
1. In dry surface-contact rectifying devices and the like, an asymmetric couple having an electronegative electrode element comprising a metallic compound of the sixth periodic group, having substantially maximum crystal density, an electropositive electrode element comprising highly electropositive metallic material in powder form, and means for retaining said electrode elements in contact under pressure sufficient to prevent the disruption of the inverse current-blocking film which forms at the contacting surfaces of said electrodes.

8. In dry surface contact rectifying devices and the like, an asymmetric couple comprising a pair of electrode elements, one in powdered form, the other in solid form, a cup adapted to contain said electrode elements disposed in operative contact, insulating means associated with said cup and adapted to maintain the edges of said elements in proper insulated relation, means consisting of a freely-moving member for closing said cup, and clamping means adapted to bear on said closing means arranged to maintain said electrode elements in contact under pressure sufficient to prevent a disruption of the inverse current-blocking film which forms at the contacting surfaces of said electrodes.

1,678,827. BOILER FURNACE. CHRISTIAN SCHILLINGER, Scranton, Pa. Filed July 14, 1926. Serial No. 122,298. 1 Claim. (Cl. 110—40.)

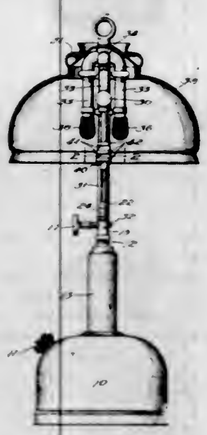
A furnace of the class described having, in combination, a traveling grate, a boiler chamber at the rear of said grate, a front wall, a top wall arranged substantially horizontally and extending substantially over the length of the grate, and a rear arch extending over substantially one-half of the length of the grate and arranged in proximity thereto, the forward end of said arch being spaced a distance from said front wall to provide an expansion space, and the top side of said rear arch together with the opposed portion of said top wall providing a restricted passage leading from said expansion space to the boiler chamber, said arch being made up of two walls arranged

one above the other and spaced a distance apart with the spaces between their ends closed, means for admitting air under pressure to said space between said walls of



the arch, and means for discharging the air after passing through said space beneath the upper run of the grate to support combustion.

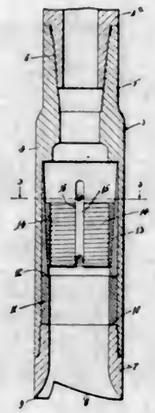
1,678,828. VAPOR BURNER. EDWARD SCHULTZ, Chicago, Ill., assignor to The Nagel-Chase Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 4, 1926. Serial No. 126,983. 2 Claims. (Cl. 67—50.)



1. In a vapor burner, the combination with a source of fuel supply having a valved outlet therefrom, of a generating tube detachably connected with said outlet and including in its structure an outwardly turned flange at the lower tube end, a cup shaped disk associated with the tube, the disk edges lying adjacent the tube flange and the cup portion being upturned to lie within the tube end, there being an aperture of small size through the disk such as to restrict the fuel flow therethrough, and a packing material within said generating tube and retained by said disk.

1,678,829. PACKER SLIP SOCKET. GLENN A. SCOTT and JAMES M. COCHRAN, Ventura, Calif. Filed June 29, 1927. Serial No. 202,242. 2 Claims. (Cl. 294—102.)

1. In a device of the class described, the combination of a tubular body having a circumferential shoulder at its upper end forming an abutment, a bell collar secured to the lower end thereof and providing a circumferential shoulder at its upper end, a packing sleeve mounted within the body and resting on the shoulder, a sleeve slidably



mounted within the body in position to engage the upper edge of the packing sleeve and the shoulder at the upper end of the tubular body, and slips mounted in the slidably mounted sleeve.

1,678,830. CASING FOR FOOTBALLS, BASKET BALLS, AND THE LIKE. MASON SCUDDER, St. Louis, Mo., assignor to Rawlings Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 21, 1927. Serial No. 177,046. 5 Claims. (Cl. 273—35.)

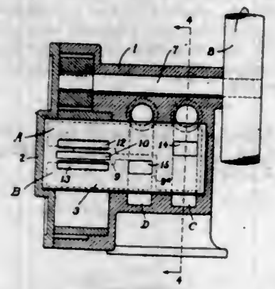


4. A casing for footballs, basket balls and the like provided with a slit, a concealed lacing comprising numerous portions disposed crosswise of said slit, and reinforcing devices on the inner side of the casing attached to the portions of the casing at the opposite sides of said slit and provided with channels for receiving said lacing, said reinforcing devices being of greater thickness than said lacing.

1,678,831. PUMP AND MOTOR. MARTIN AUGUST SEAHOLM, Chicago, Ill. Filed Dec. 9, 1925. Serial No. 74,204. Renewed Dec. 27, 1927. 15 Claims. (Cl. 121—57.)

11. In a fluid pressure engine, a stationary closed casing internally chambered to provide a cylindrical ring seat having extended parallel side faces, a cylindrical ring seated in said chamber, a cylindrical rotor of lesser diameter than the inner diameter of said ring and contacting its inner face, the ends of the rotor extending beyond the planes of the side faces of the ring and being journaled in rotor seats extending oppositely from said extended side faces of the ring chamber, a slide of the same width as the ring and pivoted thereto slidingly mounted in a slot in the rotor extending longitudinally thereof, said slide being arranged to slidingly contact the side extended faces of the ring seat and divide the chamber enclosed by the ring and rotor and extended side faces of the ring seat into inlet and outlet

spaces, and said casing being provided with inlet and outlet passages communicating respectively with said inlet and outlet spaces of said chamber, and a power



shaft journaled in said casing and on the inside thereof operatively connected with one of the interconnected rotatable members.

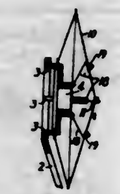
1,678,832. PHOTOGRAPHIC LIGHT-SENSITIVE MATERIAL AND PROCESS OF MAKING THE SAME. SAMUEL E. SHEPPARD, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed June 6, 1927. Serial No. 196,992. 9 Claims. (Cl. 95—7.)

1. A photographic emulsion comprising a colloid, particles of photographic silver salts suspended therein, and an added compound therein upon which at least part of the light-sensitiveness of the emulsion depends, said compound being a disulfide of the type

$$R-C-S-S-C-R$$
$$\quad\;\; X \qquad\quad Y$$

in which R is any organic radical and X and Y are selected from the group of oxygen, imid-nitrogen, sulfur, double bonded carbon.

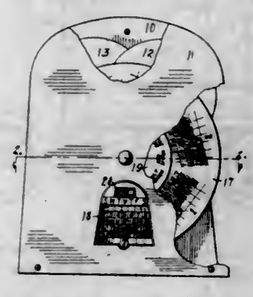
1,678,833. ACOUSTIC DEVICE. EDWIN H. SMYTHE, Evanston, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 24, 1926. Serial No. 90,297. 13 Claims. (Cl. 181—31.)



1. An acoustic device comprising a large, direct acting diaphragm, a support means for attaching said diaphragm to said support at a plurality of points removed from the outer edge of said diaphragm so as to leave the outer edge of said diaphragm free and permit the diaphragm to execute torsional vibrations about said points of support.

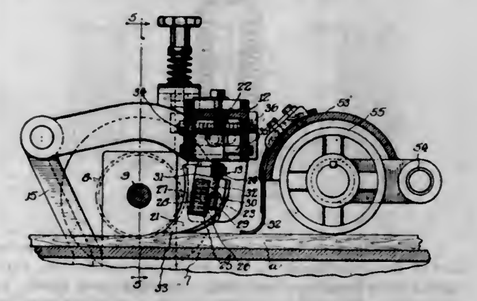
1,678,834. PERPETUAL CALENDAR. GALEN TILDEN, Ames, Iowa. Filed June 5, 1926. Serial No. 114,017. 5 Claims. (Cl. 40—113.)

1. In a calendar of the character described, a support, a member movably mounted relative to said support and bearing ninety-nine characters successively arranged to indicate ninety-nine years of a century and arranged in rows and columns, each of said columns also including index characters applicable to various units of a quarcentenary group, a second member movably mounted relative to the support and bearing columns of characters indicating monthly calendars, each of the last named columns also including one of the index characters of the first movable member characters on said support indicating a quarcentenary group with which the index characters of



the columns of the first movable member may be brought selectively into juxtaposition, a column of characters on said support representing the months of the year with which the columns of the second named movable member may be brought selectively into juxtaposition to designate the appropriate monthly calendar to be used as indicated by the associated index character, and a group of monthly calendars carried by said support and each bearing an index character corresponding to one of the characters carried by the second movable member.

1,678,835. CHIP BREAKER FOR MOLDING MACHINES AND THE LIKE. WILLIAM O. VIVARTTAS, Rockford, Ill., assignor to Mattison Machine Works, Rockford, Ill., a Corporation of Illinois. Filed Mar. 24, 1924. Serial No. 701,278. 14 Claims. (Cl. 144—244.)

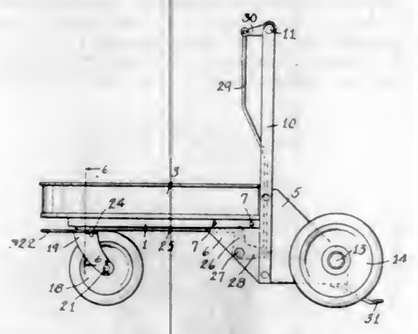


1. In a molding machine or the like, the combination with a cutter, of a chip breaker comprising a cross head located at one side of the axis of the cutter and mounted to swing on an axis located on the other side of the cutter axis, yieldable means for holding the head in operative position, and a plurality of two-part chip breaker units carried by the head for individual adjustment toward and from the axis of the cutter, the lower parts of said units being adapted to yield independently of each other in accordance with the varying thicknesses of the work transversely thereof.

1,678,836. CHILD'S WAGON. ERIC S. WESSBORG, Saginaw, Mich. Filed July 25, 1924. Serial No. 728,211. 2 Claims. (Cl. 280—87.5.)

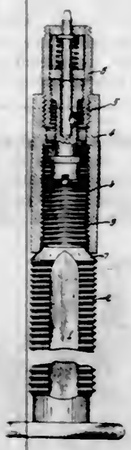
1. In a structure of the class described, the combination of a frame including a platform at the rear, uprights disposed at the front ends of said platform, a rod connecting

the upper ends of said uprights, a hand piece rotatably mounted on said rod, rear wheels disposed at the sides of said platform, a brake shoe projecting downwardly and



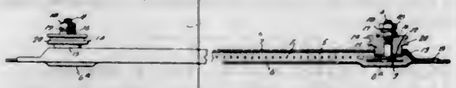
rearwardly from said platform, a steering wheel, and operating connections from said hand piece to said steering wheel.

1,678,837. VALVE CAP. ARDEN D. WHIPPLE, Oakland, Calif. Filed May 16, 1927. Serial No. 191,736. 4 Claims. (Cl. 152—12.)



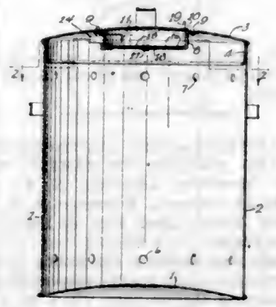
1. A pneumatic valve cap comprising a sleeve having means for attachment to the usual pneumatic tire valve stem, valve housing threadedly engaging said sleeve, an auxiliary valve within said housing, a valve controlling member connected to said housing and adapted to be advanced therewith by the threading of said housing into the sleeve so as to unseat the usual pneumatic tire valve.

1,678,838. HEAVY-DUTY ELECTRIC HEATER. EDWIN L. WIEGAND, Dormont Borough, Pa. Filed July 31, 1925. Serial No. 47,223. 10 Claims. (Cl. 201—64.)



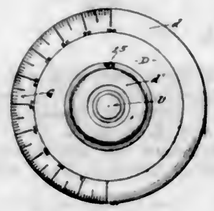
1. In an electric heater, the combination of a resistor, a terminal comprising a body portion to which the resistor is connected, a body of refractory, electrical insulating, heat conducting material enveloping said resistor and the body portion of the terminal, and a thin metal sheath encasing said body of material and having opposed walls one of which is provided with a relatively large opening through which a part of the terminal is exposed, while the other wall has a depressed portion to accommodate the refractory material underlying the body portion of the terminal, said body of material having a recess surrounding the terminal and registering with the aforesaid opening.

1,678,839. SANITARY GARBAGE CAN. WILLIAM WILKINS, Oakland, Calif. Filed Aug. 17, 1926. Serial No. 129,728. 2 Claims. (Cl. 220—87.)



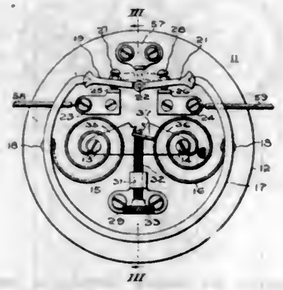
1. The combination with a garbage can of a removable top, said top having a cup-shaped container depending from the bottom face thereof, a slot in the side of said container for allowing the fumes of the contents of said container to penetrate the interior of the said can, a slide disposed in said slot, and means on said slide for selectively causing the same to cover or uncover said slot, and a rotary cutout member pivoted to the bottom of said container having apertures therethru adapted to register with apertures on the bottom of said container, and having a handle attached thereto extending thru said cover, as and for the purpose specified.

1,678,840. VARIABLE CONDENSER. ROBERT T. WILLIAMS, Los Angeles, Calif. Filed Aug. 11, 1926. Serial No. 128,572. 5 Claims. (Cl. 175—41.5.)



1. A variable condenser including a series of stationary plates, a supporting panel therefor, spaced supporting plates, a shaft fixedly mounted on and insulated from said supporting plates, a hollow shaft rotatably and reciprocably mounted on said fixed shaft and extended from said panel, a plurality of movable plates fixed to said hollow shaft and alternating with said stationary plates, a dial externally of said panel attached to the end of said hollow shaft for rotatably adjusting said movable plates with respect to said stationary plates, and means connected with said fixed shaft centrally of said dial for maintaining a desired longitudinal adjustment of said movable plates.

1,678,841. THERMAL RELAY. CHRISTIAN AALBORG, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 23, 1925. Serial No. 38,963. 3 Claims. (Cl. 200—138.)



1. In a thermal relay, the combination with a bimetallic member, of a spring member of substantially U-shape supported and actuated thereby, and means extending between the ends of said spring member and actuated thereby with a snap action only.

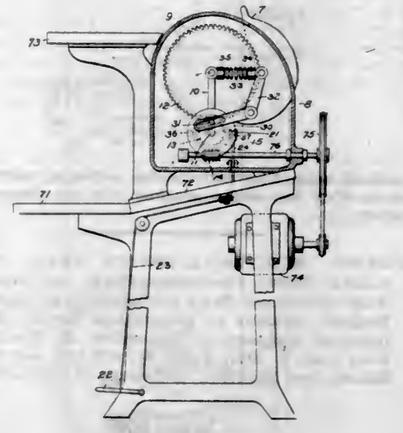
1,678,842. MICROPHONE. JOSEPH E. AIKEN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 17, 1924. Serial No. 720,477. 5 Claims. (Cl. 179—188.)



1. In combination, a microphone and sound-shielding means therefor comprising a sound-reflecting cylinder having a side aperture, a sound-absorbing lining therefor, and sound-absorbent closures for the ends of said cylinder, said microphone being adjustably supported within said cylinder.

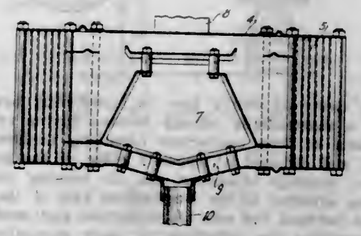
1,678,843. IRONING MACHINE. EDWIN E. ARNOLD, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 23, 1921. Serial No. 524,532. 3 Claims. (Cl. 68—9.)

2. In an ironing machine, the combination with a shoe and a roll to be moved to or from the shoe, of a shaft for the roll, a second shaft extending parallel to the roll, a support for each end of the roll shaft pivotally mounted on the second shaft, and means operated by the



second shaft for impressing a displacing force upon the roll shaft to move the roll about the pivot points of the roll shaft supports.

1,678,844. FLUID SEPARATOR. GRANT D. BRADSHAW, Pittsburgh, Pa., assignor, by mesne assignments, to Blaw-Knox Company, Blawnox, Pa., a Corporation of New Jersey. Filed May 31, 1924. Serial No. 716,915. 13 Claims. (Cl. 183—75.)

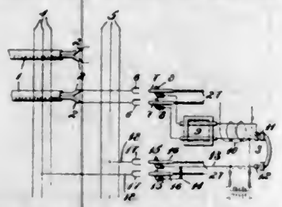


1. In a gas purifying apparatus a plurality of baffles the transverse sections of which are U-shaped, the baffles being spaced apart and arranged in rows, the baffles of one row being staggered with reference to those of the adjacent rows, and the outer edge of one side of each baffle substantially abutting against a baffle in the preceding row.

1,678,845. ELECTRICAL SWITCH GEAR. WILLIAM ANSELM COATES, Chorlton-cum-Hardy, and DAVID REGINALD DAVIES, Stretford, Manchester, England, assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 18, 1921, Serial No. 478,575, and in Great Britain June 22, 1920. 10 Claims. (Cl. 175—298.)

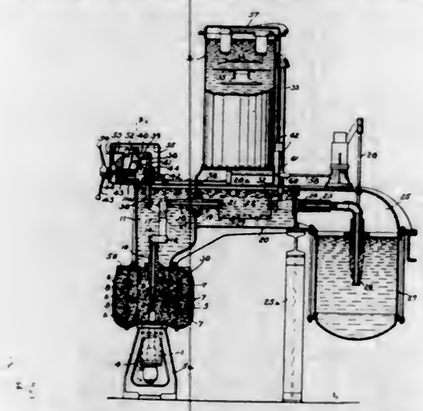
7. Electrical switch gear comprising a housing for feed conductors, a disconnecting switch, a housing for the disconnecting switch disposed substantially normal to the housing for the feed conductors and communicating therewith, a tank suspended beneath the housing for the

disconnecting switch for containing oil and electrical apparatus and terminals projecting from the housing for the disconnecting switch into the said tank, the said



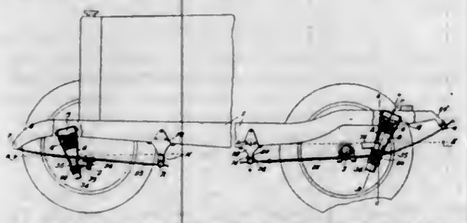
housings being filled with molded insulating material for surrounding the said conductors and the disconnecting switch.

1,678,846. ELECTRICAL SWITCH GEAR. WILLIAM ANSELM COATES, Chorlton-cum-Hardy, and GEORGE EDWARD GITTINS and DAVID REGINALD DAVIES, Manchester, England, assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 1, 1921, Serial No. 478,594, and in Great Britain June 22, 1920. 4 Claims. (Cl. 175—298.)



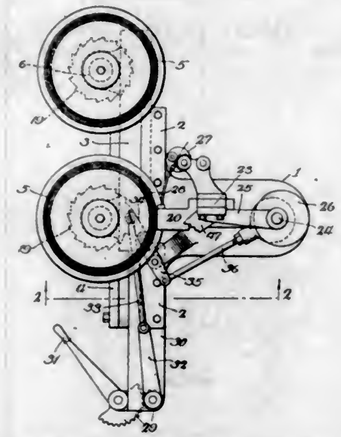
3. In electrical switch gear, a distributing box comprising a substantially tubular housing having two separate sets of feed conductors extending longitudinally thereof and disposed at opposite sides of the housing, terminal bushings extending into the housing and terminating adjacent to the longitudinal axis of the housing and between the sets of conductors and conductors for connecting the terminals to their respective feed conductors.

1,678,847. VEHICLE SUSPENSION. STEPHEN L. C. COLEMAN, Fredericton, New Brunswick, Canada, assignor to Coleman Auto Spring Suspension Company, Limited. Filed June 21, 1923. Serial No. 646,977. 28 Claims. (Cl. 267—54.)



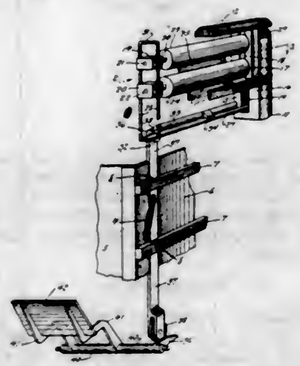
1. In a vehicle suspension, the combination with a frame and running gear, of front and rear transverse springs, means for yieldably connecting said springs to the frame and running gear, and means for preventing lateral movements and excessive rolling of said frame on the running gear.

1,678,848. MACHINE FOR MAKING BASKETS. EDWARD CRAIG, St. Joseph, Mich., assignor to Saranac Automatic Machine Corporation, Benton Harbor, Mich., a Corporation of Delaware. Filed Mar. 26, 1924. Serial No. 701,912. 17 Claims. (Cl. 1—13.6.)



1. In a machine for making receptacles, the combination of a plurality of forms upon which the receptacles are made, fastener driving mechanism to insert fasteners into each receptacle, instrumentalities having rotary actuating means for operating said mechanism and for causing step by step rotation of said forms, and devices for causing straight line relative movement between said forms and said fastener driving mechanism, whereby said mechanism and each form may be brought into operative relation to each other, with said mechanism disposed between said line and said instrumentalities, and whereby one form may be loaded while another form is cooperating with said mechanism, said mechanism being disposed between said straight line and the axis of said rotary actuating means.

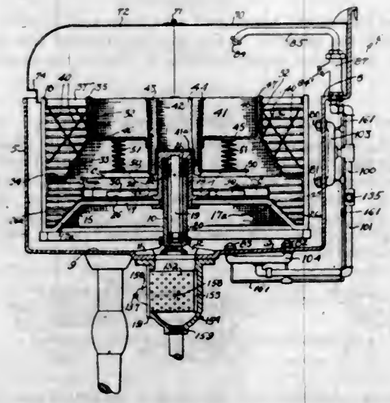
1,678,849. PRESSURE-CONTROLLING MEANS FOR WRINGER ROLLS. THOMAS C. DAVIS, Greeley, Colo. Filed Mar. 31, 1927. Serial No. 179,982. 6 Claims. (Cl. 68—32.)



1. In a wringer embodying an upper roll having supporting means for vertical play relatively to the lower roll, the combination of hanger elements depending from

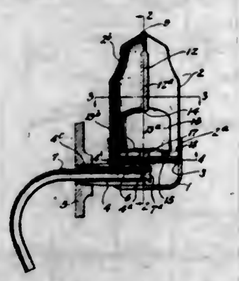
said supporting means, a bar spring freely mounted at its ends for limited sliding motions upon the lower ends of said hanger elements, and with said spring extending longitudinally below said lower roll, a lever, and means interposed between said lever and bar spring to respectively cause the downward bowing of said spring, for placing said spring under tension, and to relieve the downward bow thereof, upon the respective actuating and retractive movements of said lever.

1,678,850. ROTARY CLEANSER. WILLIAM L. DEMING, Salem, Ohio. Filed July 27, 1925. Serial No. 46,240. 4 Claims. (Cl. 141—9.)



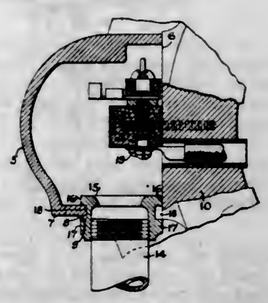
1. In a cleansing machine in combination, a casing having an inwardly sloping bottom portion, an upwardly extending member rigidly and centrally supported by the casing, a rotary container adapted to support articles to be cleansed, a shaft rigid with the container, upper and lower bearings for the container shaft supported by the upwardly extending member, the base of said member comprising webs joined with the bottom of the container and the said bottom having an opening below the webs whereby central drainage from the casing may be had.

1,678,851. AIR-VENT VALVE FOR RADIATORS. LEWIS W. EGGLESTON, Buffalo, N. Y., assignor to American Radiator Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 25, 1921. Serial No. 510,239. 9 Claims. (Cl. 236—63.)



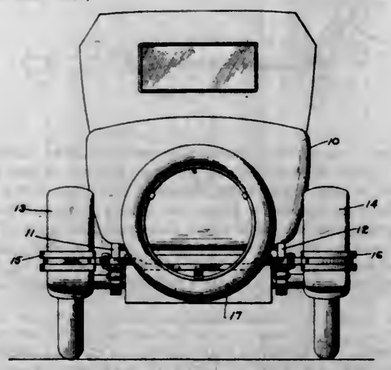
1. An air relief valve for radiators comprising a casing having a substantially cylindrical body portion, and a port connection adapted to communicate with a radiator and said casing having a conical upper end wall provided with a vent opening at its apex, a closed thermostatic float member arranged in the lower portion of said cylindrical body portion and containing a volatile liquid, said float member having a flexible lower wall, a valve stem connected to said thermostatic float member and extending through said cylindrical portion and provided at its upper end with a valve part to cooperate with said vent opening to open and close the same, the side wall of said thermostatic float member being spaced from the wall of said casing a distance sufficient to preclude holding of water by capillary attraction between said float member and casing wall, and the interior of the cylindrical and conical portions of the casing above said float member being of sufficient height and volume to constitute a separating chamber, and a guide member for said float arranged beneath the float and having spaced guide members extending upwardly between the side wall of the float and the casing.

1,678,852. TERMINAL COVER. RALPH EHRENFELD, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 2, 1922. Serial No. 604,572. 3 Claims. (Cl. 247—1.)



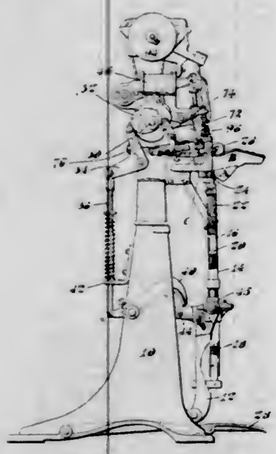
1. The combination with a terminal cover having an open side and having means whereby the open side may be secured to a support for enclosing a terminal thereon and having a slot in a side wall thereof extending inwardly from the open side of the cover, of a conduit bushing having flanges thereon for engaging the edge portions of the slot when the cover is in operative position for preventing longitudinal displacement of the bushing with respect to the cover.

1,678,853. BUMPER TIP. ROLLIE B. FAGEOL, Los Angeles, Calif., assignor to American Chain Company, Inc., Bridgeport, Conn., a Corporation of New York. Filed June 10, 1925. Serial No. 36,099. 5 Claims. (Cl. 293—55.)



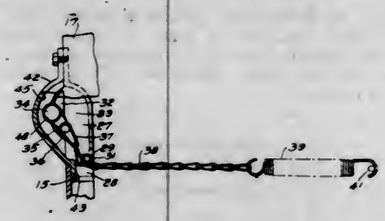
3. A bumper tip for automobiles comprising an impact member disposed transversely of an automobile frame and overhanging the sides thereof to protect the fender, mounting means carried by the vehicle frame, separate and looped resilient means supporting said impact member upon the mounting means and in substantially the same horizontal plane therewith.

1,678,854. MACHINE FOR USE IN THE MANUFACTURE OF SHOES. JOSEPH FAUSSE, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 14, 1926 Serial No. 115,915. 41 Claims. (Cl. 12—19.2.)



1. In a machine for operating on a shoe having its upper lasted round its heel seat and having a sole unattached at its heel end, means for gripping the heel end of the sole and pulling it rearwardly to position it upon the lasted heel seat of the shoe, and means for securing the heel end of the sole to the heel seat of the shoe while thus positioned.

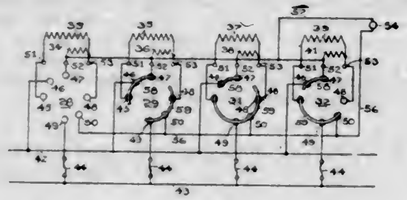
1,678,855. COUNTERBALANCE FOR OVEN DOORS. FRANK F. FORSHEE, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 31, 1927. Serial No. 195,182. 3 Claims. (Cl. 126—191.)



1. In a range, the combination with an oven casing, a front frame therefor having a recess therein in the front thereof, a base band at the bottom of the oven, and a door for the oven having a hinge pin fitting into said recess, of a hinge cap having a lower end extending back of said base band to hold the lower end of the cap, and a single screw extending through the upper end of the cap and into the oven frame to hold the hinge pin in said recess.

1,678,856. CURRENT-INDICATING AND ILLUMINATING MEANS FOR ELECTRIC RANGES. FRANK F. FORSHEE, Flint, Mich., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 10, 1922. Serial No. 542,617. 8 Claims. (Cl. 177—311.)

1. In combination, supply mains, a plurality of sets of translating devices connected in multiple across said mains, a corresponding plurality of multiposition switches each connecting the translating devices of its respective set in different relations, a pilot lamp, and connections



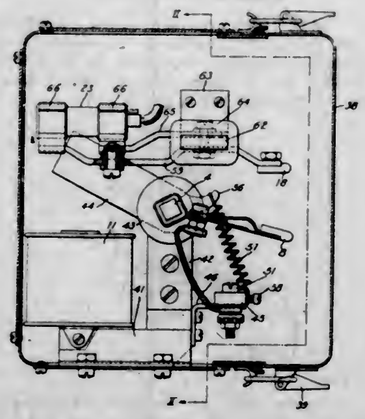
between one of the mains and said lamp and between the lamp and the switches in multiple for lighting said lamp in any one of the closed positions of any of the switches.

1,678,857. CONTROL APPARATUS. ARTHUR JOHN HALL, Gloucestershire, England, and PAUL L. MARDIS, Swissvale, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Original application filed July 15, 1919, Serial No. 311,025. Divided and this application filed July 1, 1924. Serial No. 723,599. 4 Claims. (Cl. 74—83.)



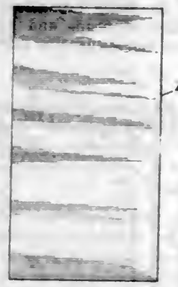
1. In a controller, the combination with a handle member having a transverse slot, of a stationary member normally adapted to freely slide in said slot, and means for barring access to said slot at will.

1,678,858. SWITCH MECHANISM. CHARLES H. HODGKINS, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 11, 1922. Serial No. 551,608. 4 Claims. (Cl. 200—88.)



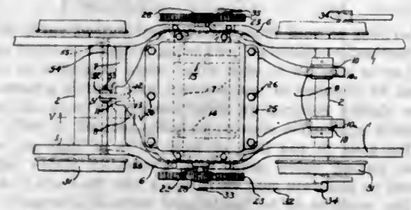
1. Switch mechanism comprising a movable switch member, a support, a pair of superimposed conductors mounted upon the support and insulated from one another, receptacles mounted on and supported by adjacent ends of the conductors for receiving a circuit-interrupting device and a contact member for engaging the switch member mounted on and supported by one of the conductors.

1,678,859. PRINTING-PLATE BLANK AND METHOD OF MAKING. ROBERT C. ISAKSEN, Flushing, N. Y., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 2, 1926. Serial No. 126,443. 6 Claims. (Cl. 101—369.)



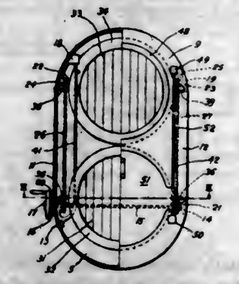
2. A printing plate blank having a plurality of dovetailed projections at opposite edges thereof and spaced apart between its ends.

1,678,860. FLEXIBLE CRADLE MOUNTING. HERBERT G. JUNGK, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 16, 1922. Serial No. 588,521. 10 Claims. (Cl. 105—121.)



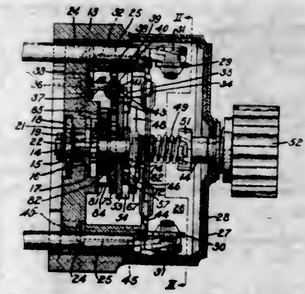
1. An electric-locomotive drive mechanism comprising a motor cradle disposed between the side frames of the cab support and pivotally supported on one of the driving axles thereof and having its free end yieldingly supported, a jack-shaft rotatably mounted in said cradle and having a drive gear secured at both ends thereof, and a motor mounted in said cradle having pinions secured to the ends of its armature shaft in co-operative relation to said drive gears.

1,678,861. SEARCHLIGHT. FRIEDRICH KALKNER, Mogeldorf, near Nuremburg, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 5, 1927, Serial No. 166,129, and in Germany Feb. 6, 1926. 5 Claims. (Cl. 240—41.)



1. The combination with a projector having a light aperture therein, of means for alternately locating a plurality of lenses in front of said light aperture, the lens-locating means being adapted to move the lenses in parallel planes in opposite directions at the same time.

1,678,862. SWITCH MECHANISM. JULIAN H. KENDIG, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 7, 1921. Serial No. 520,563. 32 Claims. (Cl. 200—124.)

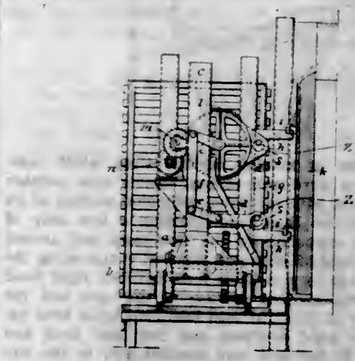


6. The combination with a contact member, a progressively movable switch member and means for arresting movement of the switch member in predetermined positions with respect to the contact member, of a fusible element for controlling the said arresting means.

1,678,863. METHOD FOR THE PREBURNING PREPARATION OF FUELS. JOSEPH MOSES WARD KITCHEN, East Orange, N. J. Filed Oct. 5, 1926. Serial No. 139,760. 14 Claims. (Cl. 44—1.)

1. The method which consists in mixing coke of relatively large sized particles, high-volatile bituminous coal particles of relatively smaller size, and anthracite dust, subjecting the mixture to a bituminous-coal-melting temperature, and cooling the product of the process.

1,678,864. COKE-OVEN-DOOR-OPERATING APPARATUS. HEINRICH KOPPERS, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 31, 1921, Serial No. 497,370, and in Germany Nov. 19, 1920. Renewed Oct. 29, 1927. 9 Claims. (Cl. 254—84.)

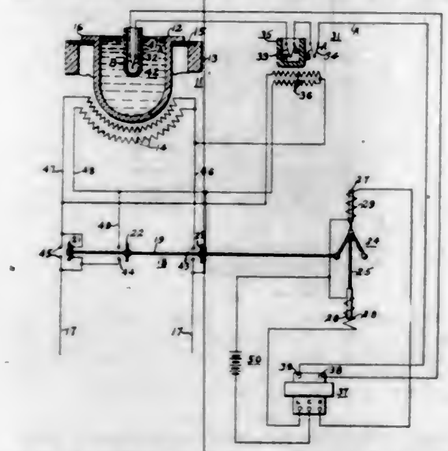


1. A device for operating the doors of coke ovens having in combination: a supporting member; spaced arms thereon for engaging said doors; means for swinging said supporting member; spaced members associated with said support for rotatably bearing in said swinging means.

1,678,865. TEMPERATURE-CONTROL SYSTEM. ROLLO B. LINCOLN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 21, 1927. Serial No. 176,886. 9 Claims. (Cl. 219—20.)

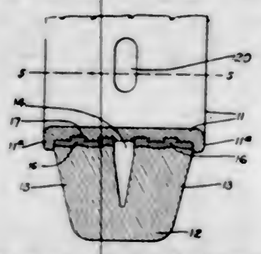
9. In a temperature-control system for a body to be heated provided with heating means, in combination, temperature-responsive means for controlling the energization of the heating means comprising a thermo-couple re-

sponsive to the temperature of said body, an auxiliary body, means for heating said auxiliary body, a thermocouple responsive to the temperature of a region adjacent to said auxiliary-body-heating means, a thermo-



couple responsive to the temperature of the auxiliary body, and means for so connecting the thermo-couples that the last-named thermo-couple opposes the electromotive force of the first named thermo-couples.

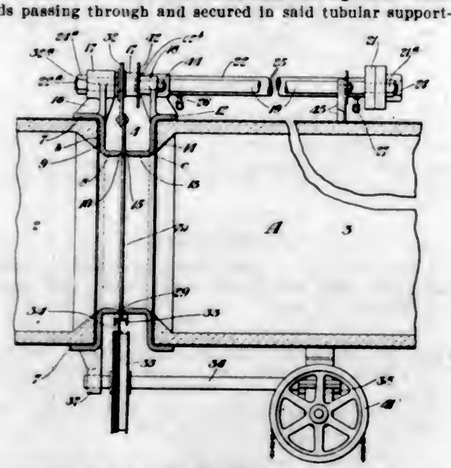
1,678,866. PROCESS FOR MAKING VEHICLE TIRES. CHARLES M. MANLY, Richmond Hill, N. Y., assignor to Overman Cushion Tire Company, Inc., a Corporation of New York. Filed Feb. 28, 1923, Serial No. 621,784. Renewed July 23, 1925. 10 Claims. (Cl. 18—55.)



1. The process of making cushion tires which comprises molding a hard and strong, fusible core member into fused contact with the outer peripheral surface of an endless metallic tire base band, building a tire body of uncured rubber compound on the base band and around the exposed surface of said core member, compressing the uncured tire body to a definite form between rigid mold members and the exposed surface of the core and the outer periphery of the tire base band, applying heat externally to the mold members and the base band and through them to the said core member and to the tire body, while the latter is thus compressed, to vulcanize and permanently unite it to the base band and to melt the said core during the vulcanization of the tire body.

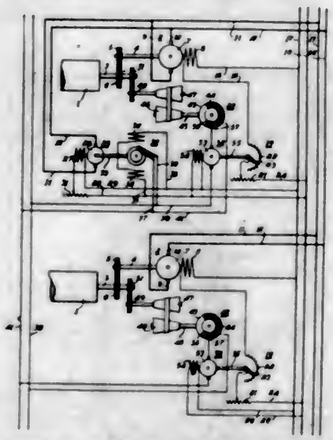
1,678,867. VALVE. FRANK R. MCGEE, Steubenville, Ohio. Filed Apr. 22, 1927. Serial No. 185,717. 3 Claims. (Cl. 251—51.)

1. The combination with a pipe line comprising at least two sections which are spaced apart to form a valve-way, a valve seat rigidly secured to one of said sections, a second valve seat rigidly secured to the other of said sections, said first named valve seat being provided at three spaced points with integral outwardly extending lugs having horizontally extending tubular supporting portions, said second named valve seat being provided at three spaced points with pairs of circumferentially spaced outwardly extending lugs, a plate valve pivotally mounted on the tubular supporting portion of one of said lugs on said first named valve seat and movable in said valve-way, a plurality of pairs of pull rods secured at one end to said pairs of lugs on said second named valve seat, cross-heads secured to the other ends of each of said pairs of pull rods, thermally expansible rods having one end secured to said cross-heads and having their other ends passing through and secured in said tubular support-



ing portions of said lugs on said first named valve seat, said thermally expansible rods being adapted to move said valve seats relative to each other when expanded or contracted by changes in temperature, and flexible alinement plates rigidly secured at their centers to each of said thermally expansible rods and rigidly secured at their respective ends to the lugs of said pairs of lugs on said second named valve seat, said alinement plates being adapted to maintain said valve seats and the ends of said pipe line sections in horizontal and vertical alinement.

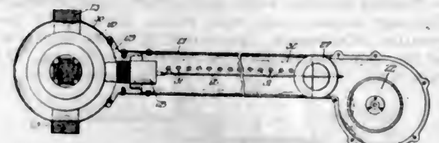
1,678,868. REGULATOR SYSTEM. WILLIAM E. MENZIES, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 14, 1923. Serial No. 645,278. 14 Claims. (Cl. 172—293.)



1. In a regulator system, a motor to be regulated, pilot motor means for varying the excitation of said motor, and means for energizing said pilot motor means comprising an alternating-current generator and rotary contactor means actuated in accordance with the speed of said motor, said generator and said rotary contactor means cooperating to energize said pilot motor means upon a

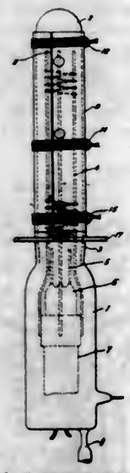
variation in the speed of said motor from normal, and to control the direction of rotation of said pilot motor means in accordance with the direction of said variation from normal.

1,678,869. STATIC DISSIPATOR. MONTFORD MORRISON, Chicago, Ill. Filed Dec. 1, 1922. Serial No. 604,140. 3 Claims. (Cl. 175—264.)



1. Apparatus for the dissipation of static electricity comprising a conductor, a source of high-tension electricity connected to said conductor and to a second conductor enclosing the first conductor, an air gap between said conductors, openings in said second conductor whereby air passing through said air gap may pass from said gap into contact with the material to be treated, and a non-conducting lining in said second conductor, said lining having openings of less area than the openings in the conductor and aligned therewith.

1,678,870. VACUUM-TUBE DEVICE. ILIA EMMANUEL MOUROMTSEFF, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 28, 1925. Serial No. 26,338. 5 Claims. (Cl. 250—27.5.)



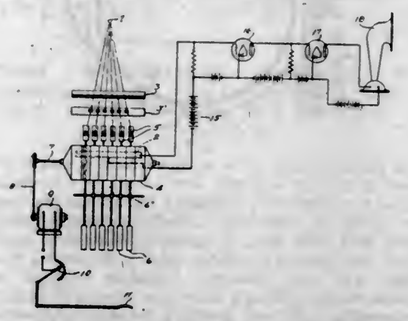
1. A space-current device, comprising a plurality of electrodes, and a container therefor, comprising a metal portion and a glass portion, and means for preventing the collapse of said metal portion thereof during evacuation comprising a metal reinforcing jacket therearound.

1,678,871. CENTER BEARING. JOHN F. O'CONNOR, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed June 25, 1923. Serial No. 647,436. 2 Claims. (Cl. 308—223.)



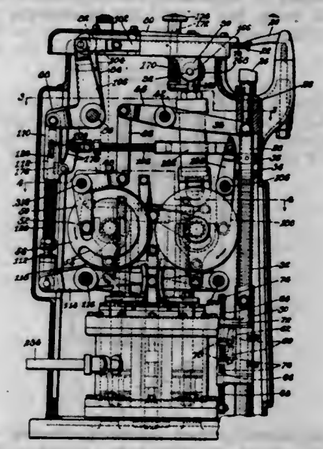
1. In car construction, the combination with a truck bolster; of a center bearing plate rigidly secured to the truck bolster, said plate being provided with an upstanding flange; a body bolster; a center bearing plate rigidly secured to the body bolster, said plate being provided with a downwardly projecting portion adapted to bear on said truck bolster plate and having a horizontally disposed annular flange; a plurality of vertically removable blocks interlocked with said upstanding flange and overlying said annular flange for detachably connecting said plates; and means for maintaining said blocks in interlocking engagement.

1,678,872. METHOD AND APPARATUS FOR PRODUCING MUSICAL SOUNDS. RALPH K. POTTER, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 2, 1926. Serial No. 78,733. 26 Claims. (Cl 84—1.)



9. In a musical instrument in which the sound producing mechanism comprises a light sensitive cell, a source of light therefor, a screen interposed between the cell and the light source such that when said screen is moved across the light beam from said source, the light of said beam will be intercepted in regular sequence so as to produce a current in said cell corresponding to a note having fundamental pitch, means for translating said current into sound, means for varying the sound of said note comprising means for varying the intensity of said light source.

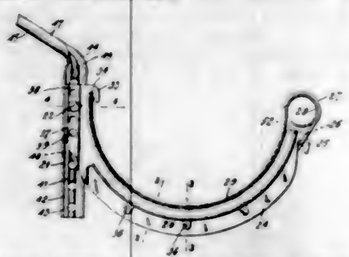
1,678,873. UPPER-SHAPING MACHINE. ARTHUR F. PYM, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 26, 1925. Serial No. 4,810. 56 Claims. (Cl. 12—14.)



1. A machine for shaping upper materials over a form having, in combination, upper shaping mechanism,

power-driven means for effecting relative movement of said upper shaping mechanism and the form to shape the upper materials, and controlling means for bringing the machine to a stop at any point in the relative movement of said upper shaping mechanism and the form comprising a manually operated member adapted to determine variably by the extent of its movement the stopping position of the machine.

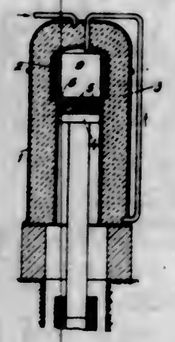
1,678,874. GUTTER HANGER. MAX RACHLIN, New York, N. Y. Filed July 9, 1927. Serial No. 204,513. 2 Claims. (Cl. 108—29.)



1. A gutter hanger circle stamped from a single strip of sheet metal bent edgewise into an arc of a circle and including a vertical web extending throughout the length of the circle, an outwardly extending horizontal portion merging with said web, an upwardly extending portion merging with said horizontal portion, a horizontal flange merging into said upwardly extending portion, said horizontal flange forming a gutter seat, and a plurality of ribs formed on said web extending substantially radially in relation to said horizontal flange.

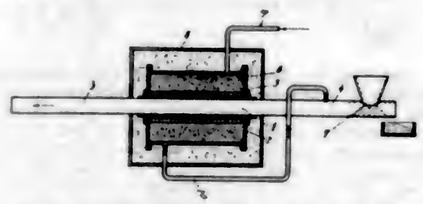
2. A gutter hanger shank stamped from a single strip of sheet metal to channel-shape and comprising a vertically extending stem apertured substantially throughout its length, a roof attaching portion extending at an angle to said stem and twisted in relation to the latter, and a rib formed at the juncture of said stem and roof attaching portion, the sides of the channel structure being drawn throughout the length of said strengthening rib so that, after the twisting operation, the free edges of the drawn portions are flush with the free edges of the undrawn portions of said sides.

1,678,875. ELECTRIC BRIGHT ANNEALING FURNACE. WILHELM ROHN, Hanau-on-the-Main, Germany, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Oct. 23, 1925, Serial No. 64,349, and in Germany Dec. 15, 1924. 4 Claims. (Cl. 266—1.5.)



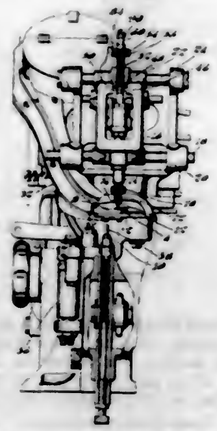
1. In an electric bright annealing furnace, in combination, an elongated airtight furnace shell closed at the top and open at the bottom and filled with a protective gas during the annealing operation, a refractory lining within said shell, electric heating means in the upper portion only of said shell, and means for introducing the goods to be annealed into said shell from the bottom.

1,678,876. ELECTRIC BRIGHT-ANNEALING FURNACE FOR CONTINUOUSLY BRIGHT ANNEALING. WILHELM ROHN, Hanau-on-the-Main, Germany, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Oct. 23, 1925, Serial No. 64,351, and in Germany Nov. 1, 1924. 8 Claims. (Cl. 266—1.5.)



1. In an electric bright annealing furnace, the combination of a metal container forming the annealing chamber proper, an airtight shell surrounding said chamber, electric resistor members located in the space between said container and said shell and means for supplying a protective gas to the space between said container and said shell and to the interior of said container, a plurality of such systems being located side by side and the goods traversing adjacent systems in opposite direction, for the purpose of effecting a heat recovery during the annealing and cooling process.

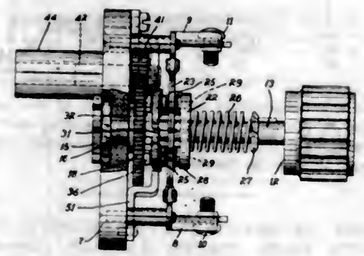
1,678,877. FASTENER-INSERTING MACHINE. FRED A. RUMNEY, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 20, 1926. Serial No. 123,787. 27 Claims. (Cl. 218—14.1)



1. A fastener-inserting machine having a punch, and a plunger housed within the punch having its end portion shaped to constitute with the cutting portion of the punch a fastener-clenching surface.

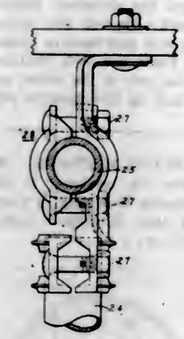
1,678,878. SWITCH MECHANISM. MAURITS J. SANDIN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 22, 1922. Serial No. 583,607. 13 Claims. (Cl. 200—124.)

4. The combination with a rotatable switch member and a tension member therefor, means for storing energy in said tension member, a carrier for said member, a stop member supported on the carrier, a gear wheel provided with stop members in position to be engaged by the first named stop member at predetermined positions of the said switch member, a second gear wheel



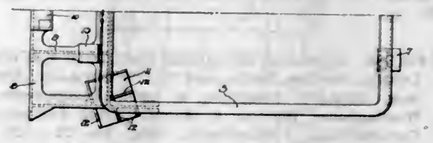
meshing with the first named gear wheel, a fusible member for normally maintaining the second gear wheel against movement, and a heating element in series with the switch for softening the fusible element to permit movement of the gear wheels.

1,678,879. FITTING FOR TUBULAR SWITCHBOARDS. HOWARD A. SELAH, Homewood, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 23, 1925. Serial No. 64,479. 2 Claims. (Cl. 24—135.)



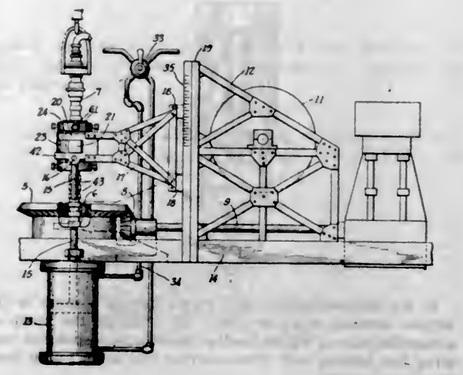
1. A frame-work fitting comprising a pair of clamping members having arcuate-clamping surfaces for substantially encircling a cylindrical member, each clamping member being provided with perforate bolt-receiving flanges constituting a part of the clamping surface and having compression lugs extending beyond the adjacent faces of the flanges and disposed in spaced relation on each flange for engaging the surface of the cylindrical member at a point between the flanges.

1,678,880. LOCOMOTIVE MUD RING. WILLIAM M. SHEEHAN, St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill., a Corporation of New Jersey. Filed Dec. 16, 1926. Serial No. 155,323. 14 Claims. (Cl. 105—46.)



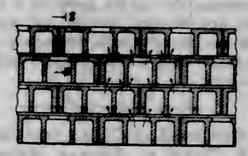
1. As a new article of manufacture, a locomotive mud ring having a deck plate formed therewith.

1,678,881. WELL-DRILLING APPARATUS. WALDO SHELDON, Greenwich, Conn. Filed Oct. 11, 1923. Serial No. 667,946. 10 Claims. (Cl. 255—22.)



1. In well drilling apparatus, a rotary table supported for rotation in a fixed plane and having a passage for the drill stem, a chuck having a body to be secured to and rotate with the drill stem and a non-rotating thrust transmitting member with projecting arms and power mechanism detachably connected with said arms for raising the chuck or for lowering the same into supported position upon the table.

1,678,882. BUILDING BLOCKS. DAVID F. SHOPE, Portland, Oreg., assignor of one-half to Glen Shope Pickens, Fort Sheridan, Ill., and one-half to Birdie Shope Snyder, Duluth, Minn. Filed Nov. 27, 1925. Serial No. 71,638. 1 Claim. (Cl. 72—41.)



A wall of building blocks, each of the blocks having hollows therein, and each having openings near its longitudinal central portion extending entirely through the

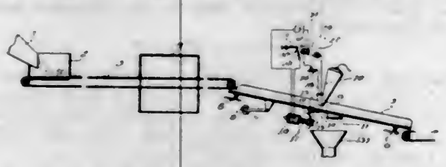
block from one side to the other, said blocks in one row being laid staggered with reference to and spaced from the blocks in the adjacent rows, and with the hollow sides downward, and cementitious material positioned between the exterior wall edges of each block and the adjacent underlying blocks, whereby air can circulate through the blocks, and between the adjacent interior side portions of the blocks, from the bottom of the wall to the top.

1,678,883. TOTALLY-INCLOSED ELECTRIC MACHINE. LUDWIG STEINER, Berlin, and VICTOR GUTMANN, Nuremberg, Germany, assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 22, 1926, Serial No. 83,144, and in Germany Apr. 27, 1925. 9 Claims. (Cl. 172—36.)



3. An inclosed submersible motor having a sump in the bottom thereof, a sump pump for draining the sump of accumulations of liquid, and a liquid-level-responsive coupling for driving and disconnecting the sump pump from the motor shaft.

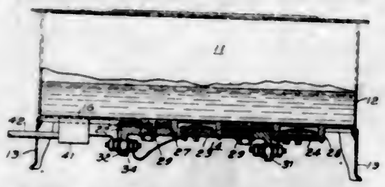
1,678,884. METALLURGICAL SEPARATOR. ANDREW T. SWEET, Houghton, Mich., assignor of one-fourth to William G. Rice and one-fourth to Herman Gundlach, Houghton, Mich., and one-tenth to Philip B. Woodworth, Chicago, Ill. Filed Oct. 21, 1926. Serial No. 143,132. 6 Claims. (Cl. 209—111.)



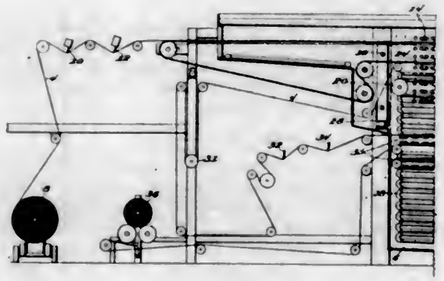
1. A process for separating minerals from ore which consists in causing the ore to move in a stream across a beam of light and dividing out of said stream fractional masses of the ore according to variation of light reflecting values between said divided masses and the remainder of the ore stream.

1,678,885. THERMOSTATICALLY-CONTROLLED HEATING UNIT. IRVIN G. THOMAS, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 10, 1927. Serial No. 174,147. 6 Claims. (Cl. 219—43.)

2. The combination with a container, a heating unit therefor, and a thermostatic device responsive to the temperature of material heated in said container for intermittently decreasing and increasing the energization of said heating unit, of a second thermostatic device responsive to the temperature of that portion of the container disposed in thermal contact with the heating unit for de-energizing said heating unit when a relatively high temperature obtains in the heating unit.

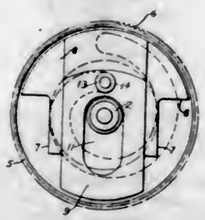


1,678,886. APPARATUS FOR THE RECOVERY OF SOLVENTS FROM COATED FABRICS. HERBERT S. THOMPSON, Peekskill, N. Y. Filed Feb. 17, 1927. Serial No. 169,119. 11 Claims. (Cl. 34—48.)



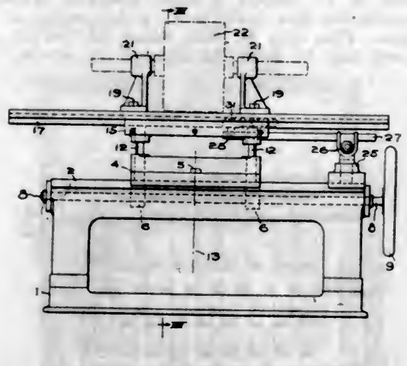
1. Apparatus for recovering solvents from coated fabrics, comprising a closed chamber, means for leading a coated web through the chamber, means for heating the web, and condensers adjacent the walls of the chamber at the sides of the web arranged to create a circulation of the vapor driven from the web coating across the web from one side of the web to the other and down one side, across the bottom and up the opposite side of the chamber.

1,678,887. BALANCING MACHINE. WILLIAM E. TRUMPLER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 2, 1926. Serial No. 91,769. 9 Claims. (Cl. 73—51.)



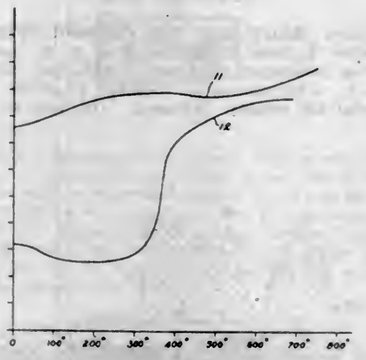
1. In a balancing machine, a counterbalance device comprising a movable weight, a plate having radial guide means for said weight, and a disk rotatable with respect to said plate and having spiral guide means for adjusting said weight along said radial guide means.

1,678,888. BALANCING MACHINE. WILLIAM E. TRUMBLER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 27, 1926. Serial No. 11,924. 9 Claims. (Cl. 73—51.)



1. In a balancing machine, the combination with a supporting base, of a plurality of leaf springs mounted perpendicular to said base in planes that intersect at a common axis, and a vibrating bed mounted on the leaf springs.

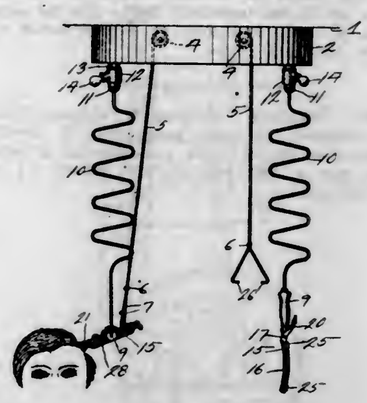
1,678,889. THERMOSTATIC MATERIAL. VICTOR G. VAUGHAN, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 12, 1925. Serial No. 55,890. 10 Claims. (Cl. 297—15.)



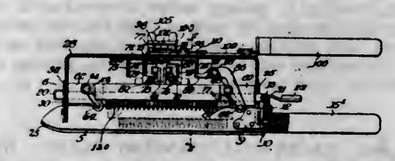
1. A heat responsive device comprising metallic elements, one of said elements being an alloy comprising cobalt and iron, and the other element being nickel steel.

1,678,890. MARCELLING AND PERMANENT-WAVE IRONS. KATHERINE WALL, Omaha, Nebr. Filed Sept. 13, 1927. Serial No. 219,827. 4 Claims. (Cl. 132—36.)

1. A marcelling iron comprising a handle member, a fork carried by said handle member and having a plurality of arms, means for heating said fork, a corrugated plate pivotally mounted on the fork and positioned whereby the plurality of arms will be received between the corrugations thereof, a protecting plate for the under side of said iron, said protecting plate being provided with means whereby when it is positioned said plate will be held against displacement by members overlying the corrugated plate.

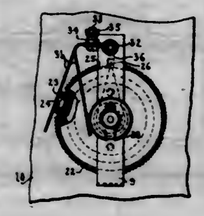


1,678,891. HAIR WAVER. ARTHUR E. WALSH, Chicago, Ill. Filed May 10, 1924. Serial No. 712,192. 19 Claims. (Cl. 132—32.)



1. In a device of the class described, the combination with a waving unit of a plurality of independent heating and waving units movable separately and successively into cooperation therewith.

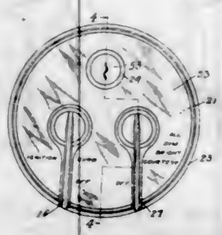
1,678,892. RESISTANCE-CONTROL DEVICE. HENRY J. WIEGAND, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed May 15, 1922. Serial No. 561,136. 16 Claims. (Cl. 201—55.)



1. In resistance control apparatus, the combination with a rigid metallic frame, of a plurality of independently operable sets of resistance varying elements carried

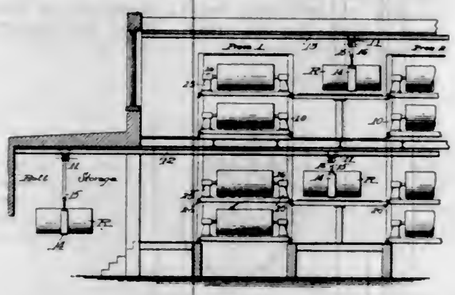
by said frame, such elements of each set comprising a resistor and a directly engaging contactor and operating means for said individual sets of elements comprising independently rotatable concentric shafts carried by said frame and means for securing certain of the elements of each set to the individual shafts and for adjusting said shafts axially and angularly with reference to said elements and said frame.

1,678,893. SWITCH. CHARLES E. WILSON, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed May 6, 1922. Serial No. 558,852. 1 Claim. (Cl. 200—44.)



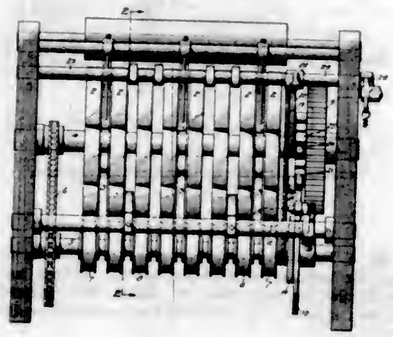
In an automobile, in combination, an electric switch having a battery circuit terminal, an ignition circuit terminal and a parking light circuit terminal, and a lock controlled switch member movable when in unlocked condition to connect battery terminal with either the ignition terminal or parking light terminal or to off position, and movable when in locked condition to connect the battery terminal only with the parking light terminal or to off position.

1,678,894. PAPER-ROLL-CHANGING PLANT. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Original application filed Sept. 9, 1918, Serial No. 253,314, Patent No. 1,464,463, dated Aug. 7, 1923. Divided and this application filed Mar. 2, 1923, Serial No. 622,368. Renewed Jan. 5, 1928. 5 Claims. (Cl. 101—1.)



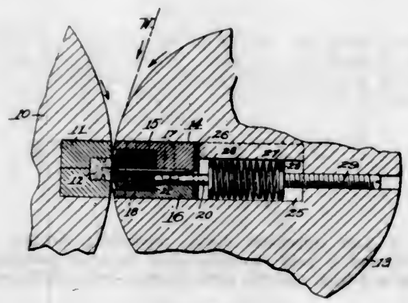
1. The combination with a series of printing presses, of a support for a plurality of web rolls spaced from the end thereof to permit new web rolls to be moved along transversely between the support and printing presses while the latter are running, said support also having a space beyond it for a similar purpose.

1,678,895. THROW-OUT MECHANISM FOR PRINTING-PRESS DELIVERY. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed May 18, 1923, Serial No. 639,858. Renewed Jan. 10, 1928. 23 Claims. (Cl. 93—93.)



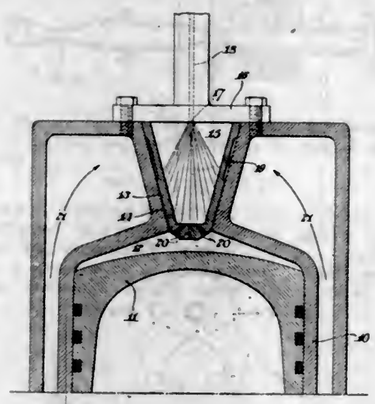
1. A delivery mechanism for printed products adapted to deliver a bundle of products and throw out one for inspection and provided with means for rectifying the count, so that each bundle will contain the full number of products desired in one bundle.

1,678,896. KNIFE BOX FOR CUTTING CYLINDERS. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Oct. 3, 1923. Serial No. 666,364. 6 Claims. (Cl. 164—67.)



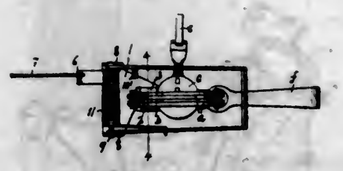
3. The combination with a cutting cylinder for a web folding machine, of a saw toothed cutting blade smooth on one side and having teeth perpendicular on one edge to the length of the blade and slanting on the other edge so as to come to a sharp perforating point and beveled on the slanting edge.

1,678,897. INTERNAL-COMBUSTION ENGINE. EDWARD T. ADAMS, Phoenix, Ariz., assignor to Fairbanks, Morse & Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 15, 1923. Serial No. 625,185. 9 Claims. (Cl. 123—33.)



1. In an internal combustion engine, a frusto-conical pre-combustion chamber comprising a liner and having walls of substantially uniform thickness, adapted to be closely surrounded by a cooling fluid, and a closure means for said chamber.

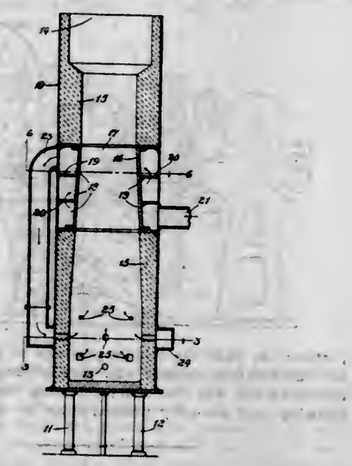
1,678,898. STRIKER ATTACHMENT FOR ANIMAL TRAPS. ARTHUR N. ARMSTRONG, Norwich, N. Y., assignor of one-half to Herman J. Sommers, Norwich, N. Y. Filed Dec. 10, 1926. Serial No. 153,894. 4 Claims. (Cl. 43—90.)



1. A striker attachment for animal traps of the twin jaw type, comprising a plate having at one end a loop open at one side for receiving a portion of the trap frame, movable means on the loop for locking it immovably to said frame, a spring-actuated striker pivoted to the plate, and means on the plate adapted to be controlled by one of the trap jaws for holding the striker against the action of its spring.

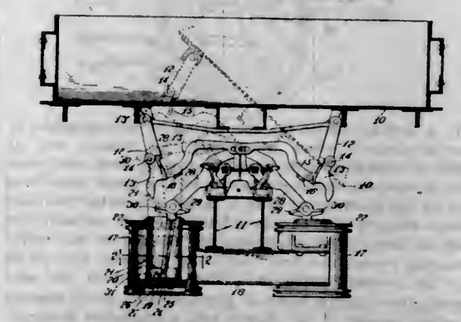
1,678,899. CUPOLA. ALPHONSE EDWARD BAILLOT, Hull, Quebec, Canada, assignor of fifty-one one-hundredths to Archibald Harold Coplan, Ottawa, Ontario, Canada, and forty-nine one-hundredths to Archibald Hymen Coplan, Hull, Quebec, Canada. Filed Mar. 5, 1926. Serial No. 92,619. 2 Claims. (Cl. 266—14.)

1. In a cupola furnace of the character described a built-in tubular metal member replacing sections of the refractory lining of the furnace and in spaced relationship to the wall of the furnace to form a heating chamber encircling the interior of the furnace, a plurality of superimposed spaced partitions in said chamber forming annular air passageways, said passageways communicating with one another through suitable non-aligning openings arranged to cause the air to travel the full extent of each passageway before entering the adjoining passageway and to reverse the direction of the air flow as it passes from one air passageway to another, an air blast intake at one end of the chamber and a preheated air discharge outlet at the other end of the chamber, a plurality of spaced substantially cone-shaped



tuyères in the furnace wall, an adjustable air belt communicating with the tuyères, and a conduit without the furnace connecting the air belt with the preheated air discharge outlet.

1,678,900. FLUID-PRESSURE-OPERATED MECHANISM FOR DUMP CARS. JAMES D. BENBOW, Aurora, Ill., assignor to Western Wheeled Scraper Company, Aurora, Ill., a Corporation of Illinois. Original application filed Feb. 7, 1924, Serial No. 691,188. Divided and this application filed Jan. 28, 1926. Serial No. 84,295. 9 Claims. (Cl. 74—108.)



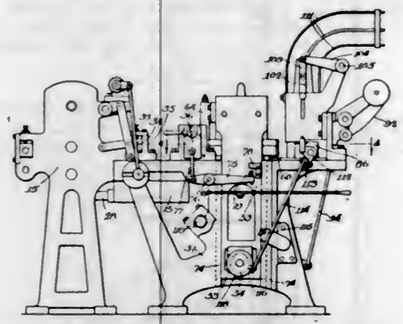
1. The combination with a cylinder and piston, of a plunger bar having a bearing surface at its lower end seated on the piston, and oppositely disposed hooks carried by the piston adapted to engage opposite side portions of the bar to hold said bar in operative relation to the piston

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1,678,901. MACHINERY FOR CONVERTING SHEET MATERIAL INTO RECEPTACLES. EDWARD CRAIG, St. Joseph, Mich., assignor to Saranac Automatic Machine Corporation, Benton Harbor, Mich., a Corporation of Delaware. Filed Aug. 18, 1924. Serial No. 732,682. 33 Claims. (Cl. 93—42.)

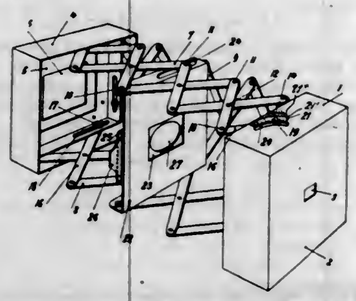
1. The method of making a receptacle from sheet material, comprising the blanking of the sheet material in the desired manner, preparatory to the folding thereof, thereafter folding the sheet material along predetermined lines formed on the blank, thereby forming overlapping

portions at opposite sides of the receptacle, so that a substantially rectangular receptacle will be formed with four outwardly inclined sides, temporarily pressing inwardly the two opposite sides having said overlapping



portions, so that the middle portions of these two sides are substantially upright and parallel during the fastening operation, and thereafter releasing the receptacle and allowing said inwardly pressed sides to spring outward.

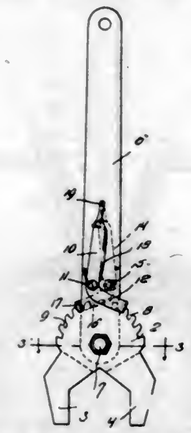
1,678,902. CAMERA VIEW FINDER. ANDRÉ LÉON VICTOR CLEMENT DEBRIE, Paris, France. Filed Sept. 20, 1926, Serial No. 136,667, and in France Dec. 7, 1925. 3 Claims. (Cl. 33—64.)



1. A finding device for the taking of photographic or cinematographic views, comprising two frames one of which is provided with a sight aperture and the other with an opening the size of which is in a given ratio with that of the plate to be used, a series of parallel motions, means whereby the two last links of each extremity of each of these parallel motions are secured to the corresponding frame, the first link being pivotally secured to and the second sliding in a slot provided in the said frame, there being a scale graduated in focal lengths provided on one of the frames and a projection borne by one end link of one parallel motion giving on said scale the focal length of the objective to be used for obtaining the field seen through the two frames, which focal length is proportional to the distance between the two frames.

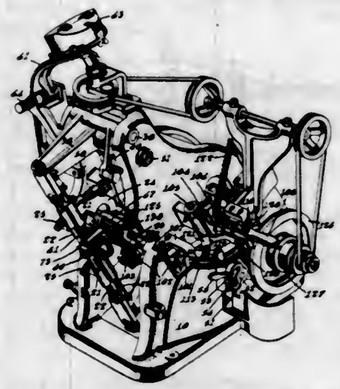
1,678,903. RATCHET WRENCH. LOUIS M. GIBSON, Niangua, Mo. Filed Mar. 29, 1927. Serial No. 179,377. 1 Claim. (Cl. 81—59.)

In a ratchet wrench of the class described, a handle, a head, the inner end portion thereof being slotted to receive the inner end of the handle, a pivot extending through the slotted head and said handle, a pair of co-acting jaws on the outer edge portion of the head, ratchet teeth formed on the inner edges of the slotted head; certain of the ratchet teeth on each edge being disposed in one direction, the remaining teeth in each edge being disposed in the opposite direction, a pair of ratchet levers pivoted on the opposite sides of the handle, the pivoted ends of the levers being disposed laterally and thence inwardly in opposite directions to provide a pair of opposed pawls ex-



tending across the respective side edges of the handle, said pawls adapted for engagement with the respective series of teeth, and said resilient means for holding the pawls in engagement with the ratchet teeth.

1,678,904. FASTENER-INSERTING MACHINE. PERLEY R. GLASS, Wayland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 7, 1924. Serial No. 697,553. 33 Claims. (Cl. 218—15.2.)

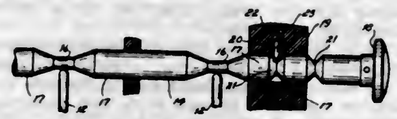


1. A fastener-inserting machine comprising punching mechanism including a laterally movable punching couple, fastener-inserting mechanism including a laterally movable fastener-inserting and clenching couple separate from said punching couple, and mechanism for feeding the work relatively to said couples, said couples being movable alternately to a common working position from positions at opposite sides of said working position.

1,678,905. PRESSURE-RELIEF MEANS. MORRIS J. GOLDBERG, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 1, 1927. Serial No. 180,292. 3 Claims. (Cl. 230—24.)

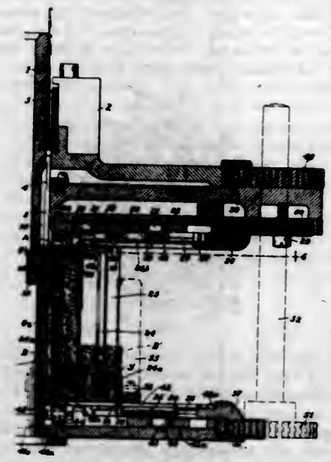
1. In an unloading device for an air compressor having a cylinder and a valve in the cylinder, a shaft having a plurality of portions of reduced diameter and arranged to

be moved transversely to the path of travel of said valve; a portion of the valve normally operating adjacent one of the reduced portions of the shaft, and a shaft positioning



means adapted to coact with other of said reduced portions to position the shaft definitely in each of several positions.

1,678,906. NEEDLE-SELECTOR MECHANISM FOR KNITTING MACHINES. KENNETH HOWIE, Norristown, Pa., assignor to Wildman Mfg. Co., Norristown, Pa., a Corporation of Pennsylvania. Filed May 19, 1926. Serial No. 110,184. 43 Claims. (Cl. 66—50.)



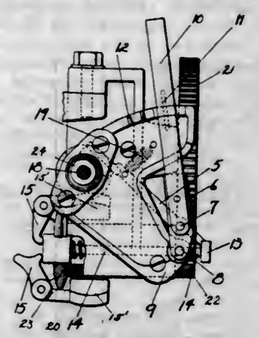
1. Needle selector mechanism for knitting machines for producing designs in the fabric comprising a series of needle selector plates stacked one upon another having edge teeth to control the needles, means for advancing said plates to select the needles and for withdrawing them after selecting the needles, and means for operating the needles, each of said toothed plates extending along a section of the needle bed to control a group of needles, substantially as described.

1,678,907. TRICK WHEEL FOR KNITTING MACHINES. KENNETH HOWIE, Norristown, Pa., assignor to Wildman Mfg. Co., Norristown, Pa., a Corporation of Pennsylvania. Filed May 21, 1927. Serial No. 193,280. 5 Claims. (Cl. 66—50.)



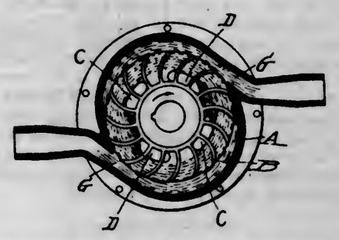
1. A trick wheel for knitting machines having insert pieces mounted therein and spaced apart from each other, some of said insert pieces having flanges extending across the spaces between the said pieces to provide shoulders for engaging the needle butts, others of said insert pieces having no flanges to leave adjoining spaces free to receive the needle butts, substantially as described.

1,678,908. GOVERNOR CONTROL FOR INTERNAL-COMBUSTION ENGINES. CHARLES B. JAHNKE, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 9, 1924. Serial No. 742,631. 9 Claims. (Cl. 123—113.)



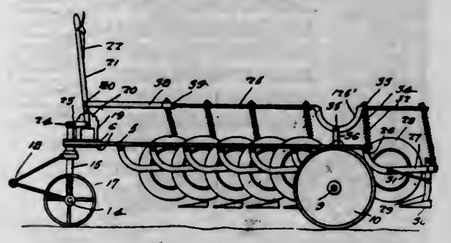
1. In an internal combustion engine, in combination with a valve, a push-rod therefor, a pivoted lever adapted to control said valve, an adjustable fulcrum for said lever, means for imparting an arcuate movement to said fulcrum, and a governor controlling said member, a portion of said pivoted member being adapted for operative connection directly with the said governor, and another portion thereof being adapted as an abutment for said push-rod.

1,678,909. PUMPING APPARATUS FOR HANDLING GASES AND LIQUIDS. IRVING C. JENNINGS, South Norwalk, Conn. Filed Sept. 6, 1927. Serial No. 217,669. 6 Claims. (Cl. 230—79.)



1. In a pump, employing liquid as the pumping medium a rotor having displacement chambers, a casing arranged eccentrically to the rotor, a gas inlet and outlet, and a liquid outlet or port arranged at a point in the casing where the operating liquid tends to exert a compression effect.

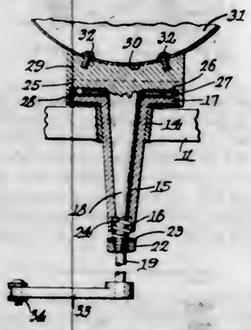
1,678,910. AGRICULTURAL IMPLEMENT. LEE L. KELLER, Wellington, Colo. Filed Apr. 13, 1927. Serial No. 183,484. 1 Claim. (Cl. 97—287.)



An apparatus of the class described, including a main V-shaped frame, a rear axle on the frame, wheels on the rear axle, a front axle, wheels on the front axle, a

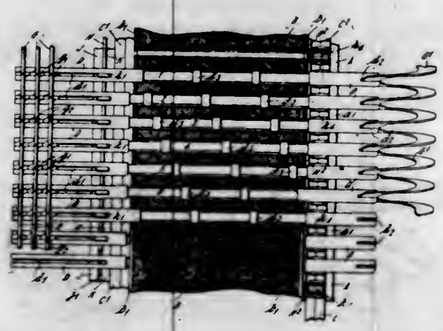
standard rising from the front axle through an opening in the apex of the main frame, a bracket, a lever mounted on the bracket, an arm extending from the lever, a pin and slot connection between the arm and the standard whereby the forward end of the main frame may be raised and lowered by swinging the lever, arms pivoted to the main frame, implements on the last mentioned arms, links connected to the last mentioned arms, an auxiliary V-shaped frame, arms swingably mounted on the rear axle and pivotally connected to the intermediate portions of the auxiliary V-shaped frame, and springs on the links between the frame and the second mentioned arm.

1,678,911. DIRIGIBLE HEADLIGHT. MARION S. KELLEY, South Bend, Wash. Filed Oct. 25, 1926. Serial No. 144,114. 1 Claim. (Cl. 240—62.)



In a device of the class described, a substantially horizontal support having a conical hub, a conical bearing seated in the hub and provided at its upper end with a disk-like head extended beyond the hub, a conical shaft journaled in the bearing and provided with a top piece in the form of a solid block having a recess in its bottom, the head of the bearing being received in the recess, anti-friction elements housed in the recess and located between the top piece and the head, a lamp, securing elements connecting the lamp to the top piece, spring means for moving the shaft endwise to hold the top piece engaged with the anti-friction elements, and means for rotating the shaft from the steering mechanism of a vehicle.

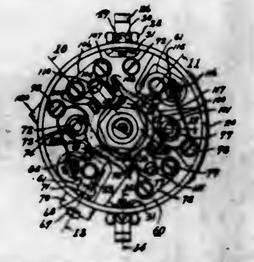
1,678,912. ELECTRIC MOTOR. ROBERT STAFFORD MCLEOD, Manchester, GEORGE ERIC MASON, Hale, and WILLIAM STANSFIELD, Chorlton-cum-Hardy, England. Filed Mar. 5, 1925. Serial No. 13,310, and in Great Britain Mar. 5, 1924. 8 Claims. (Cl. 172—120.)



1. The improvement in electric motors of the squirrel cage rotor type which consists in providing a number of separate bearing surfaces between the rotor bars and the holes or channels in the core discs in which they are located, the peripheries of the bars between the said bearing surfaces being clear of the walls of the channels, the said bearing surfaces in adjacent bars being located at differing distances axially from the end of the rotor; substantially as described.

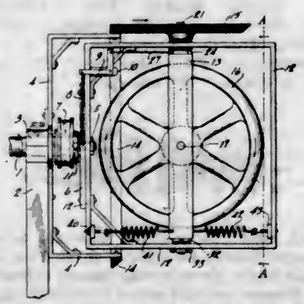
2. In a squirrel cage rotor for an electric motor in combination:—a magnetic core; a series of rotor bars for the said core having radial slots in the ends thereof; conductors connecting the ends of the bars consisting of a metallic strip wound on edge so as to form a cylindrical spiral, said spiral being then bent so that its axis forms a circle, the adjacent ends of the strip being connected together and the convolutions of the spiral being secured in position in slots in the ends of the bars; end connections for the bars having comparatively low ohmic resistance and ferruginous material located in contact with the last mentioned end connections and adapted to increase the inductance of the said connections; substantially as described.

1,678,913. IGNITION TIMER DISTRIBUTOR. LESLIE O. PARKER, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 6, 1925. Serial No. 20,949. 4 Claims. (Cl. 200—21.)



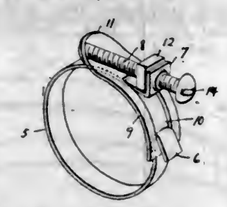
2. An ignition device comprising in combination, a housing; a cam located centrally of said housing; a stationary bracket mounted in said housing; a plate adjustably secured to said bracket and in electrical engagement therewith; a bridging conductor extending across the bracket and insulatingly secured at both its ends to said bracket; an interrupter arm movably supported on, but insulated from said bracket; means for connecting the said arm to the bridging conductor; a second movable contact arm secured to, but insulated from, the plate; means connecting the second contact arm to the bridging conductor; and stationary contacts carried on the bracket and plate adapted to be engaged by the first and second mentioned conductor arms respectively.

1,678,914. SPEED GOVERNOR. RODNEY G. RICHARDSON, Chicago, Ill. Filed Apr. 9, 1923. Serial No. 630,705. 18 Claims. (Cl. 264—1.)



1. In a shaft governor, a frame rigidly attached to the engine shaft, a second frame pivotally supported on said first frame, a flywheel rotatably supported on said second frame, a shaft for driving said flywheel disposed perpendicular to its axis of rotation and extending through one of the supporting pivots for said second frame, means for rotating said last mentioned shaft when the frames are rotated by the engine shaft, means for communicating movement of the second frame about its pivots to the engine control equipment, and an adjustable spring opposing such movement.

1,678,915. HOSE CLAMP. GEORGE W. RIDDLE, Chillicothe, Mo. Filed Sept. 8, 1927. Serial No. 218,240. 1 Claim. (Cl. 24—19.)



In a hose coupling of the character described, a metallic band, the ends of which are normally separated, a curved plate for engagement at the ends of the band, a detachable connection between one end of the plate and one end of the band, a sliding connection between the opposite end of the band and the plate adjacent its opposite end, a sliding connection between the opposite end of the band and the plate adjacent its opposite end and means between said ends of the band and plate whereby the ends may be forcibly separated to cause the compression of said band, said means consisting of a tangentially extending pin threaded to the band and a pocket at the adjacent end of said plate within which the end of said pin engages.

1,678,916. BUMPER. FREDERICK C. ROBIE, Cleveland, Ohio, assignor to The Eaton Axle & Spring Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 8, 1926. Serial No. 86,730. 2 Claims. (Cl. 293—55.)



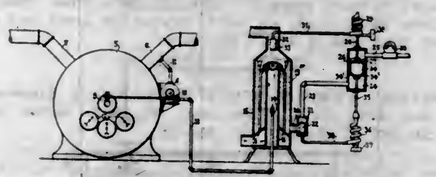
1. In an automobile bumper, the combination of two parallel impact receiving bars spaced apart vertically and joined at the ends of the bumper and having extensions from said joints meeting at the middle of the bumper between the impact bars and substantially in the same plane therewith, a clamp comprising a plate bridging the forward sides of said impact bars and a plate bridging the rear sides of the impact bars, and a bolt joining said plates and adapted to clamp them tightly upon said impact bars, said meeting ends being attached to one of said clamping plates and spaced slightly from the other plate.

1,678,917. FOLDING MACHINE. CLARENCE P. ROUSH, Spokane, Wash. Filed May 25, 1927. Serial No. 194,106. 3 Claims. (Cl. 270—61.)



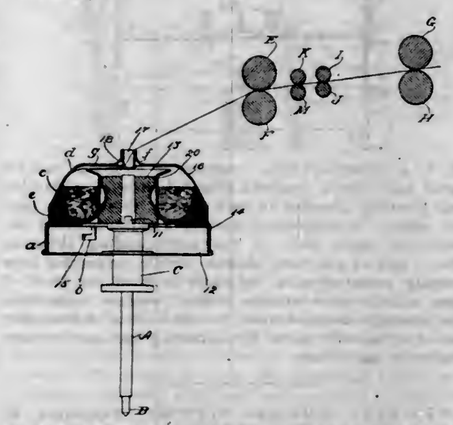
1. In a folding machine the combination with a table having a spaced folding plate and an adjustable stop bar between the table and plate, of a pivoted folding bar adjacent the free edge of the plate, and said bar having a bearing face for co-action with the free edge of the plate in folding a sheet.

1,678,918. APPARATUS FOR DETERMINING AND ALSO INDICATING THE TOTAL HEATING VALUE OF FLOWING COMBUSTIBLE FLUID. EDWIN X. SCHMIDT, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 30, 1926. Serial No. 105,666. 6 Claims. (Cl. 73—184.)



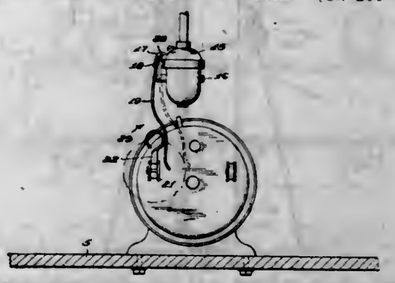
1. Apparatus for determining the total number of heat units in a flow of combustible fluid, which comprises a pair of positive displacement pumps or respectively proportioning the main flow of said fluid and the flow of a continuous sample thereof, and calorimetric means for determining the total number of heat units in said sample, said means being calibrated to indicate directly the total number of heat units in said main flow of fluid.

1,678,919. METHOD OF AND APPARATUS FOR SPINNING YARN. DAVID S. SEAMAN, Providence, R. I. Filed Feb. 8, 1927. Serial No. 166,770. 10 Claims. (Cl. 118—49.)



1. The method of spinning yarn which consists in rolling it by centrifugal force on a concave surface while it is being twisted.

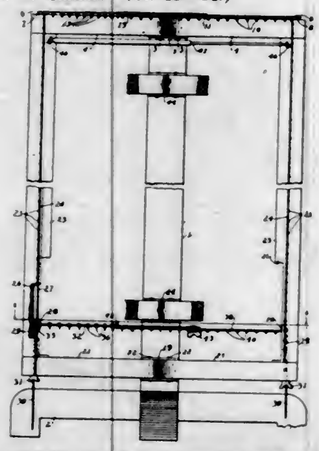
1,678,920. BEDROOM LAMP STAND AND CIRCUIT-CONTROLLING MECHANISM THEREFOR. SAMUEL B. SHIFFLETT, Del Ray, Alexandria, Va. Filed Dec. 3, 1927. Serial No. 237,502. 2 Claims. (Cl. 200—35.)



1. In a device of the character described, the combination with an alarm clock, a switch disposed rearwardly of the alarm clock, a keeper fixed upon the exterior of

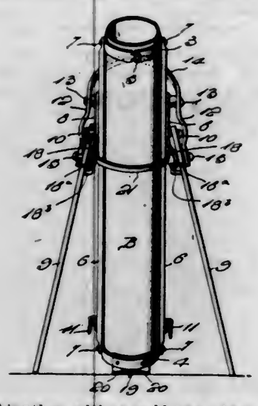
said switch, a lever biasedly mounted beneath said keeper, said keeper projecting downwardly over said lever far enough to limit the movement of the lever away from the switch, a laterally movable push button constituting a part of said switch, said push button acting upon the lever when said button is moved to "off" position to thrust said lever outwardly against said keeper, and a tappet of crank formation upon the alarm wind element of the alarm clock, shaped to engage the lower end of said lever with a wiping movement.

1,678,921. CURTAIN STRETCHER. JOHN J. SIMMONS, San Jose, Calif. Filed Nov. 8, 1927. Serial No. 231,883. 7 Claims. (Cl. 45—24.)



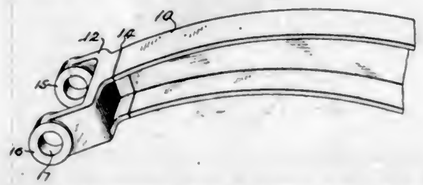
3. In a curtain stretcher, supporting means, a pair of spaced and aligned brackets mounted thereon, a pair of arms pivotally mounted in each bracket to swing in parallel planes, a connecting member rigidly inserted between the outer ends of the corresponding swinging arms, a pair of relatively slidable curtain supporting bars pivotally mounted upon the outer ends of one pair of arms, a pair of relatively slidable curtain supporting bars pivotally mounted upon the outer ends of the other pair of arms and means for adjusting one pair of bars relative to the other.

1,678,922. GOLF-BAG SUPPORT. FREDERICK M. SINGER, Racine, Wis. Filed Sept. 12, 1927. Serial No. 218,965. 13 Claims. (Cl. 150—1.5.)



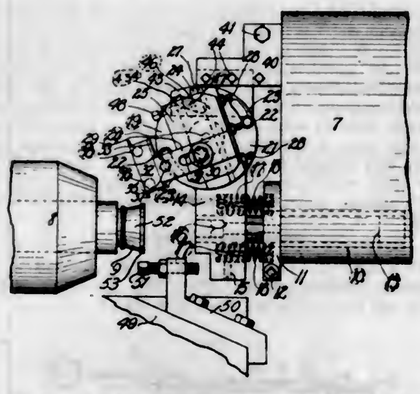
1. In combination with a golf bag; two legs normally lying in retracted positions at opposite sides of said bag, means pivotally mounting said legs, two substantially vertical levers fulcrumed at said opposite sides of the bag for movement substantially in the same directions as said legs, said levers being provided with a handle by means of which they may be swung, and means connecting said levers with said legs at points spaced substantially vertically from the pivots of the latter, whereby swinging of the levers will swing the legs away from the bag to operative positions.

1,678,923. PRODUCTION OF INTEGRAL SIDE BARS AND SPRING HANGERS BY ELECTRIC WELDING. CHARLES S. SMITH, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Feb. 8, 1924. Serial No. 691,337. 3 Claims. (Cl. 267—54.)



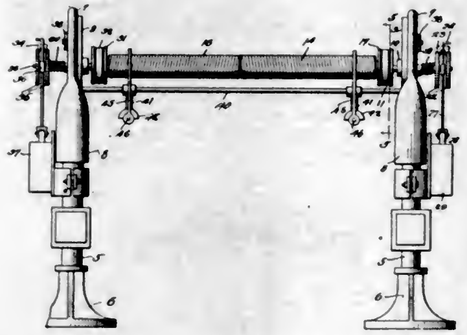
1. In an automobile frame, a channel side bar having an open end, and a spring hanger having forwardly extending spaced parallel ears for receiving between them the eye-end of a vehicle spring, the said spring hanger being provided back of said ears with a transverse partition which serves to brace the ears in spaced relation, and being formed at its end in the rear of said partition with a channel coinciding with the adjacent end of the side bar, rear wall extensions of the hanger aligned with and butt-welded to the ends of the walls of the channel side bar, the said partition serving to close the space defined by the rear wall extensions of the hanger and the walls of the channel side bar in alignment therewith, except one side which is left open.

1,678,924. UNDERCUTTING ATTACHMENT FOR SCREW MACHINES. RICHARD STRINDBERG, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Apr. 27, 1925. Serial No. 25,999. 5 Claims. (Cl. 29—57.)



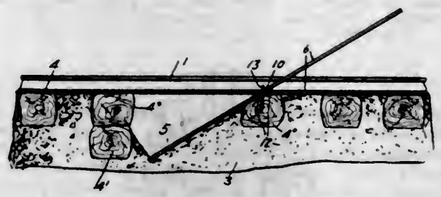
1. In a metal working machine comprising a rotating work spindle and a reciprocating tool turret movable longitudinally thereof, the combination with an undercutting tool comprising a spring-pressed bracket slidably mounted on said turret for movement longitudinally thereof, a member swiveled to said bracket, a slide block mounted on the swivel member for sliding movement in a plane disposed at an oblique angle with relation to the spindle axis, a tool holder adjustably secured to said slide block, a cutting tool adjustably secured to said tool holder, and means carried by the tool turret and operatively engaging said slide block for moving the cutting tool into and out of engagement with the work.

1,678,925. GUIDER. ROBERT DANIEL TACKABERRY, Lewiston, Me. Filed Feb. 18, 1925. Serial No. 10,064. 2 Claims. (Cl. 271—2.6.)



1. A cloth guiding machine including a support, shafts mounted on the support, rolls mounted on the shafts and having spirally formed grooves with which cloth contacts to rotate the rolls when the cloth passes through the machine, braking means at the ends of the rolls for stopping the rolls, pivoted upstanding fingers supported at opposite edges of the cloth passing through the machine and adapted to be engaged by cloth moving laterally over the rolls, contact members carried by the fingers and adapted to complete a circuit for operating the braking mechanism, when the fingers are moved laterally by the action of the cloth, and means for normally returning the arms to their normal positions.

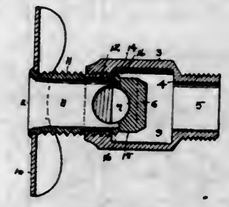
1,678,926. CATTLE GUARD. FREDERICK STANLEY WALTON and JOHN MCKENZIE, Smithers, British Columbia, Canada. Filed Apr. 30, 1926. Serial No. 105,841. 2 Claims. (Cl. 256—15.)



1. In a cattle guard, the combination with the rails of a trackway and the ties extending thereunder with an excavation formed between two of such ties, of a plurality of parallel slats each having a pair of orifices in the centre portion thereof, and a staple bridging that portion of the slat between the orifices thereof, and a vertical portion of the staple extending part way through each orifice into the underlying tie.

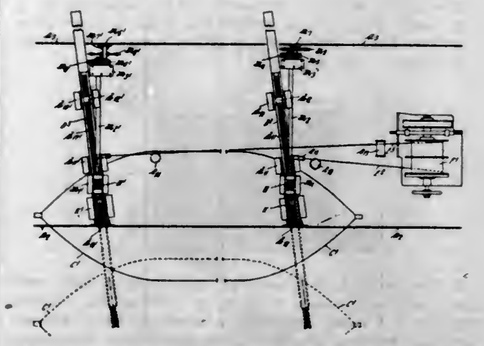
1,678,927. DRAIN COCK OR VALVE. ALBERT J. WEATHERHEAD, Jr., Cleveland, Ohio. Filed Apr. 13, 1927. Serial No. 183,370. 6 Claims. (Cl. 251—8.)

4. A drain cock or valve, comprising a body having an intake passage at one end and a screw-threaded opening at its opposite end, a valve member adapted to close said passage having a screw-thread portion adapted to operate within said screw-threaded opening, said member having an opening in its side at its inner end and a longitudinal passage extending therefrom to its outer end, the inner end of said member being of slightly reduced diameter as



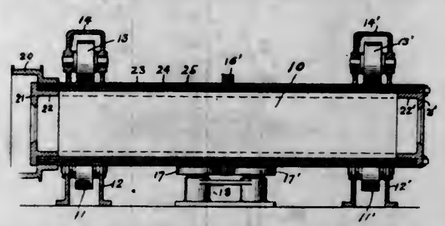
compared with its threaded portion and formed with an annular rib externally thereof adapted to prevent ready removal of said member from said body.

1,678,928. APPARATUS FOR LAUNCHING, LOWERING, AND RAISING BOATS. ARTHUR ROBERT THOMAS WOODS, London, England. Filed Mar. 4, 1927, Serial No. 172,793, and in Great Britain Mar. 6, 1926. 6 Claims. (Cl. 9—22.)



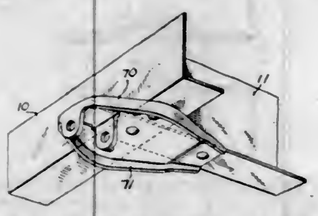
1. In apparatus of the type referred to for launching, lowering and raising ships' boats, in combination; launching beams for the boats, a rack on each launching beam; a worm engaging with each rack; athwart-ship shafts carrying said worms; operating gear connected to the athwart-ship shafts to move the launching beams in an inbord or outboard direction; substantially as described.

1,678,929. LOW-CONDUCTIVITY MOLD FOR CENTRIFUGAL CASTING MACHINES. LUCIEN I. YEOMANS, Chicago, Ill., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed July 17, 1924. Serial No. 726,446. 4 Claims. (Cl. 22—65.)



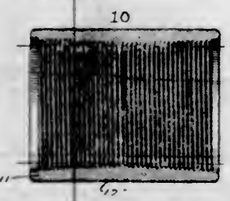
1. A rotatable, balanced mold for metal casting comprising a plurality of circular tubes of different diameters and concentrically assembled one within another to form a unitary structure, and held together by the frictional engagement of the outer surface of one tube with the inner surface of the next larger tube.

1,678,930. SPRING HANGER AND GUSSET FOR AUTOMOBILE FRAMES. BIRGER TORVALD ANDREN, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed June 28, 1926. Serial No. 119,014. 7 Claims. (Cl. 267—54.)



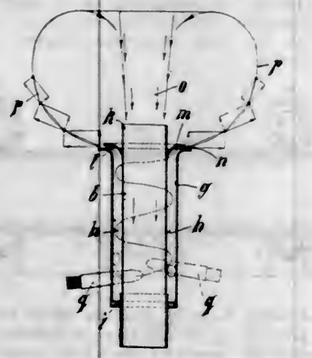
1. A spring hanger formed integrally with a laterally widened gusset plate, the said spring hanger being composed of two portions of the gusset plate extending perpendicularly to the plane of the plate and parallel to each other.

1,678,931. PRODUCTION OF PIPE COUPLINGS BY CENTRIFUGAL CASTING. HARRY BLUMBERG and MARTIN A. MIKESH, Milwaukee, Wis., assignors to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed May 3, 1924. Serial No. 710,728. 5 Claims. (Cl. 22—202.)



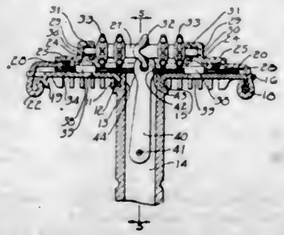
1. The method of producing centrifugally cast steel pipe couplings, which consists in coating the interior surfaces of a metal mold with a substance which will retard the freezing of the molten metal first introduced into the mold and form an alloy with such metal, rotating the mold, and introducing the molten metal thereinto, whereby there is created in the pipe coupling an exterior surface having a structure which differs from that of the body of the pipe coupling and is free from surface cracks.

1,678,932. SUCTION APPARATUS. GEORG BÜHLER, Steinenkirch, near Geislingen-on-the-Steige, Germany. Filed Apr. 20, 1926. Serial No. 103,315. and in Germany Feb. 19, 1925. 5 Claims. (Cl. 183—37.)



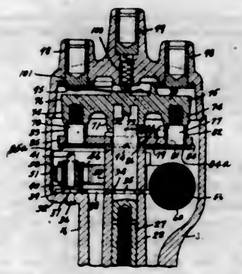
5. Suction and purifying apparatus for air, comprising a suction tube provided with a mouth-piece; a pressure tube concentrically surrounding the suction tube and spaced from the same to form an intermediate passage, said pressure tube having its rear end closed and its front end widened and turned laterally outward; a ring adjacent the front end of the suction tube and coacting with the out-turned end of the pressure tube to form a funnel-shaped outlet nozzle; a blower; and a filter intermediate the suction tube and the suction side of the blower and connected thereto, the pressure side of said blower being connected to the air passage to supply air under pressure to said passage to escape from the nozzle in the form of an annular mantle which concentrically surrounds the suction zone extending from said mouthpiece.

1,678,933. SAFETY RAZOR. EARL C. BUNNELL, Stratford, Conn., assignor to John J. King, New York, N. Y. Filed Mar. 15, 1927. Serial No. 175,479. 5 Claims. (Cl. 30—12.)



1. In a safety razor, a razor blade supporting plate, a retaining plate for the razor blade, a hollow handle upon said supporting plate, means upon said supporting plate adapted to enter longitudinal slots in said blade to guide the same, and mechanism associated with said retaining plate and said handle and directly associated with said blade for imparting reciprocatory longitudinal movements to said blade, said mechanism including a cam upon said retaining plate, and a lever pivoted in said handle and adapted to pass through an opening in said blade and be operatively associated with said cam.

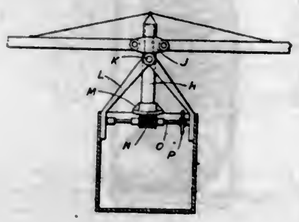
1,678,934. IGNITION APPARATUS. WILLIAM A. CHRYST, Dayton, Ohio, assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed May 23, 1922. Serial No. 563,145. 7 Claims. (Cl. 200—22.)



1. Ignition apparatus comprising a housing providing a bearing, a shaft journalled in the bearing and extending beyond the bearing into the housing, a cam located between the shaft end and the bearing and journalled loosely on the shaft extension, a circuit interrupter operated by the cam, a sub-assembly structure for drivingly connecting the shaft with the cam and for varying the angular relation of the cam to the shaft in response to variations in shaft speed, said structure being removable as a unit from the shaft without disturbing the cam or interrupter, and said structure comprising

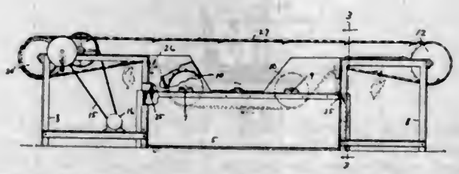
a support mounted upon said shaft end and driven thereby, weights movably connected with the support and located between the support and cam, and springs for restraining the weights, said weights and cam having cooperating provisions by which these members are connected by movement of the sub-assembly toward the cam axially of the shaft.

1,678,935. AIRCRAFT WITH ROTATIVE WINGS. JUAN DE LA CIERVA, Madrid, Spain. Filed Nov. 10, 1926, Serial No. 147,570, and in Great Britain Nov. 24, 1925. 6 Claims. (Cl. 244—19.)



1. In aircraft, a plurality of freely rotative wings adapted to be driven by the air flow across them in flight, a central hub member to which said wings are hinge-jointed, a shaft carrying said hub member and tiltably mounted in the body of the air craft so as to be capable of variable lateral inclination.

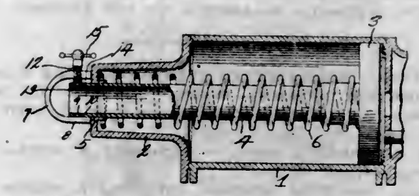
1,678,936. POULTRY-SCALDING MEANS. ALFRED G. EGBERT, Pleasanton, Kans. Filed Nov. 15, 1927. Serial 233,476. 3 Claims. (Cl. 17—11.)



1. In a poultry scalding machine of the character described, a scalding tank, an endless member associated with the tank and having one run thereof engageable through said tank, means for operating said endless member, means whereby poultry may be readily secured to and removed from said endless member, said means consisting of blocks secured to the member, a pin longitudinally slidable through each block, a hook at one end of the pin between which and the adjacent end of the block the legs of the fowl are to be arranged, means for securing the pin at a position within the block whereby the hooked end of the pin is arranged adjacent the block, and cooperative construction between each clamp and the machine and the far end of the tank whereby the said pins are automatically released after the same have passed from said scalding tank.

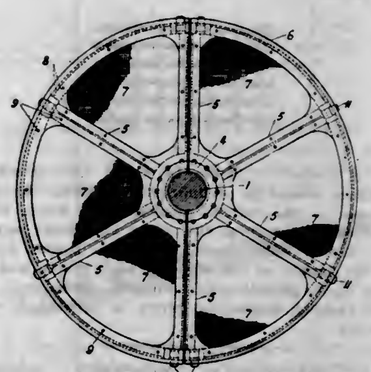
1,678,937. AIR-BRAKE-PISTON CLAMP. LOUIS H. DOUSE, Toledo, Ohio. Filed May 17, 1926. Serial No. 109,809. 3 Claims. (Cl. 29—87.1.)

1. An air brake piston clamp comprising a U-shaped body member adapted to arch the end of a piston rod with its arms on opposite sides of the rod, said arms at spaced points from the ends thereof having members extending towards each other and adapted to be received in recesses in a piston rod, whereby upon pivotal



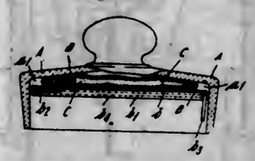
movement of the U-shaped member, the arms will engage a cylinder head and hold the piston rod against inward movement.

1,678,938. HYDRO-EXTRACTOR OR CENTRIFUGAL MACHINE. ALEXANDER FRASER DUNSMORE, Glasgow, Scotland. Filed Feb. 16, 1927, Serial No. 168,760, and in Great Britain Dec. 30, 1926. 4 Claims. (Cl. 210—63.)



1. In a hydro-extractor, in combination with a rotary spindle, a basket rotatable with said spindle, a socket held to said spindle, and a panelled frame to form a cover for said basket, said frame having a bush engageable with the socket, the panels of said frame being removable and composed of filtering medium.

1,678,939. MOISTURE-ABSORBING DEVICE FOR STOPPERED CONTAINING VESSELS. ERIC L. FURBER, Liverpool, England. Filed Dec. 27, 1923, Serial No. 683,008, and in Great Britain Dec. 27, 1922. 4 Claims. (Cl. 215—48.)



1. In a moisture absorbing device for containing vessels, in combination;—a stopper having in its under side a recess with cylindrical walls; a perforated retaining plate; spring gripping means consisting of an open ended spring hoop of radius greater than that of the cylindrical wall of the recess, attached at a point intermediate its ends to the retaining plate and adapted when

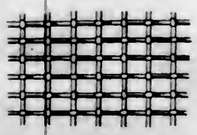
the retaining plate is inserted in the recess to follow the contour of and frictionally grip the wall of the recess; a container having a porous wall and adapted to be supported by the retaining plate in the recess; and a hygroscopic substance in the said container.

1,678,940. ROOT-FILLING SUBSTANCE. ERIK GUSTAV HEDSTRÖM, Stockholm, Sweden. Filed Nov. 13, 1926, Serial No. 148,316, and in Sweden Sept. 27, 1926. 8 Claims. (Cl. 106—6.)

1. A root-filling substance comprising a solution of natural asphalt.

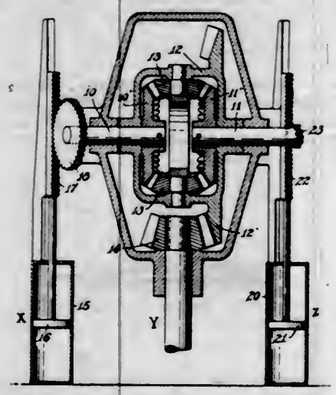
8. A root-filling substance comprising a solution of Syrian asphalt in benzole and a substance which is practically impervious to Röntgen rays.

1,678,941. METHOD OF MAKING WOVEN-WIRE SCREENS. AUGUST E. HELMAN, Cleveland, Ohio, assignor to The W. S. Tyler Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed June 9, 1927, Serial No. 197,643. Divided and this application filed June 20, 1928. Serial No. 286,999. 3 Claims. (Cl. 140—1.)



3. In a method of making a woven wire screen, the steps which consist in preliminarily crimping the transverse wires to the contour required in a woven screen, simultaneously flattening the upper and lower surfaces at the crest of each of such crimps to harden and increase the rigidity of the wires at such points, and then weaving said preliminarily crimped transverse wires through parallel longtudinal wires to produce a woven wire screen.

1,678,942. MECHANICAL MOVEMENT. MINOT K. HOLMES, Muncie, Ind., assignor to Hemingray Glass Company, Muncie, Ind., a Corporation of Kentucky. Original application filed Dec. 1, 1924, Serial No. 753,220. Divided and this application filed May 26, 1926. Serial No. 111,689. 1 Claim. (Cl. 74—34.)



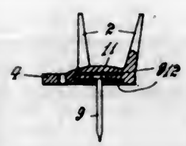
A mechanical movement comprising a differential gearing, a power delivery shaft geared to the middle of said differential, and two power applying units having a rack and gear connection respectively with the ends of said differential at effectively different power values.

1,678,943. BOTTLE BRUSH. BENJAMIN B. JACKSON, Delphi, Ind. Filed Sept. 3, 1927. Serial No. 217,385. 3 Claims. (Cl. 15—164.)



1. A cleaning brush comprising a plurality of deformable cleaning members carried by a supporting member adapted to be inserted longitudinally in the neck of a bottle and conically spiralled to bring certain of said cleaning members into simultaneous engagement with the wall, bottom and bottom corner of the bottle.

1,678,944. GOLF TEE. NORMAN REGINALD JACOBSEN, Wellington, New Zealand. Filed Jan. 13, 1928, Serial No. 246,547, and in New Zealand Feb. 11, 1927. 5 Claims. (Cl. 273—33.)

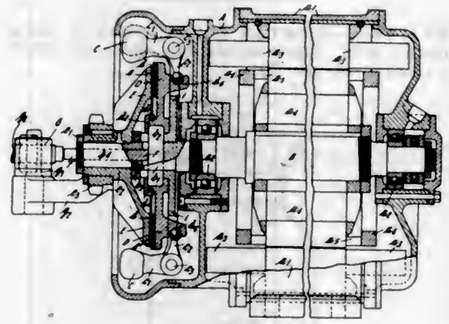


1. A golf tee consisting of a disc of rubber or similar flexible material, flexible projections extending upwards from the disc at or near the circumference thereof, upon which projections the golf ball is placed, and a shank projecting from the underside of the disc for insertion into the ground, discs of material embedded in said rubber disc to which the head of said shank is connected in such a manner that the joint between the shank and the discs of material is flexible, substantially as described.

1,678,945. FRICTIONAL DRIVING MECHANISM FOR MACHINES HAVING STOP MOTIONS. CHARLES EDWARD JONES, Bradford, England. Filed Feb. 6, 1925, Serial No. 7,313, and in Great Britain Feb. 9, 1924. 16 Claims. (Cl. 192—02.)

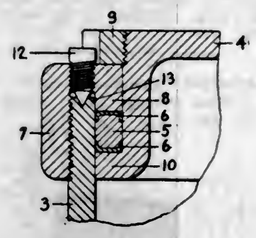
2. In driving, starting and stopping means for machines, in combination;—a motor; a friction clutch, one element of which is driven by the motor and the other element of which is adapted to drive the machine; rotating weights driven by the motor and, when free, adapted to be moved outwardly by centrifugal force and to cause frictional engagement between the two clutch elements; and controlling means connected to the rotating weights and a part of the machine to which movement is given when the machine has to be stopped and started, move-

ment of the said controlling means being adapted to determine the extent to which the weights are permitted to move outwardly under centrifugal force, and so de-



termine the magnitude of engaging pressure between the frictional surfaces of the clutch caused by the said outward movement of the weights; substantially as described.

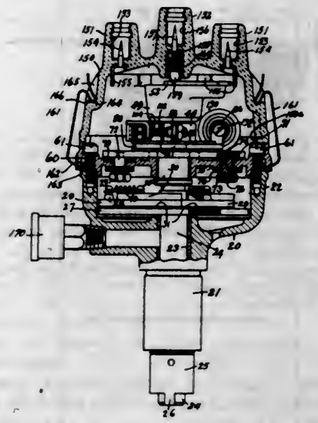
1,678,946. CYLINDER HEAD AND PACKING. BRYAN P. JOYCE, Davenport, Iowa. Filed July 18, 1927. Serial No. 206,567. 8 Claims. (Cl. 74—108.)



1. In a cylinder head packing assembly, a cylinder, separable means to reinforce the cylinder at the packing and to seat the packing, a packing ring cooperating therewith, a cylinder head associated with the end of the cylinder, and means to secure the head in position, said head having a projecting part engaging the packing ring and adapted to transmit pressure over a portion of its area to the packing.

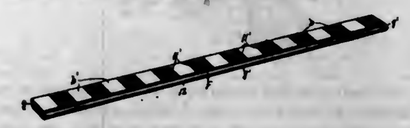
1,678,947. IGNITION TIMER. FREDERICK C. KROEGER, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Nov. 6, 1922, Serial No. 599,238. Renewed Feb. 3, 1927. 13 Claims. (Cl. 200—21.)

3. In an ignition distributor, the combination with timer contacts; of a cam for separating the contacts; a stop pin; provisions for attaching the pin to the cam in two positions relative to the cam; a drive shaft; means for connecting the shaft with cam and for angularly adjusting the cam from a normal position with respect to the shaft in response to increase in speed; spring means for returning the cam to normal position; and a member connected to the drive shaft and provided with spaced apertures each for receiving the stop pin in one of its positions of attachment to the cam, said apertures being larger than the pin and so disposed that when the pin is in one of its positions of attachment to the cam and extends into one aperture said pin cooperates with the apertured member to provide a stop limiting the movement of the cam in one direction from normal, and when the pin is in the other position of attachment to the cam and extends into the other aperture said pin co-



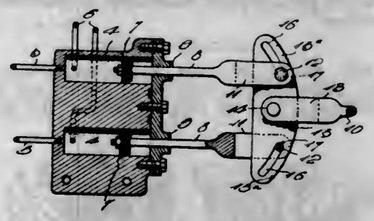
operates with the apertured member to provide a stop limiting the movement of the cam in the opposite direction from normal with respect to the drive shaft.

1,678,948. RUBBER-COMPOSITION FLOORING. JOHN B. LOSEY and WALTER R. STONE, Syracuse, N. Y. Filed Feb. 21, 1927, Serial No. 169,892, and in Great Britain Aug. 19, 1926. 2 Claims. (Cl. 154—49.)



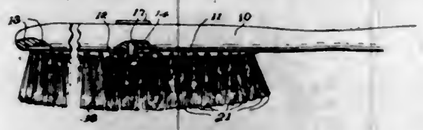
1. A flooring or siding comprising a base section of relatively soft rubber composition and a plurality of surface sections of relatively harder rubber composition vulcanized to one surface of the base section and provided with a tongue and a groove along its opposite edge, both in the plane of the vulcanized surfaces, the meeting edges of the surface sections being in abutting relation but not united.

1,678,949. HYDRAULIC BRAKE-OPERATING MEANS. ARTHUR MOSER, Northampton, Pa. Filed Nov. 3, 1927. Serial No. 230,773. 6 Claims. (Cl. 188—204.)



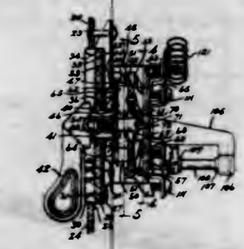
1. In a hydraulic brake operating means, two parallel piston rods, a transverse equalizing lever extending transversely between the outer ends of said piston rods, two combined pivotal and slidable connections connecting said equalizing lever with said rods and permitting swinging of said lever in either direction about the pivots of said connections and also allowing sliding of said lever transversely of the rods incident to such swinging, and an operating member having a pivotal connection with the central portion of said lever.

1,678,950. BRUSH CONSTRUCTION. FREEMAN NILSSON, Troy, N. Y. Filed Apr. 26, 1927. Serial No. 186,708. 3 Claims. (Cl. 15—176.)



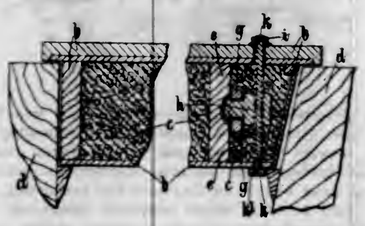
1. In a brush of the character described, a case recessed to receive a head, a head insertable in the recess, a head-retaining member reciprocably mounted in the body of the case comprising a pin having a head exposed on the back of the case and a part projected into the said recess of the case, a spring confined by the head of the pin operative to yieldingly hold the pin retracted and inter-engaging elements on the brush head and pin inoperative when the pin is depressed.

1,678,951. ELECTRIC SWITCH. HARRY E. NORVIEL, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 14, 1925. Serial No. 22,977. 11 Claims. (Cl. 200—6.)



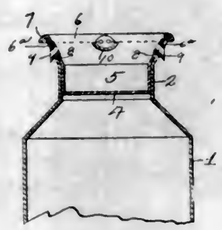
6. An electric switch comprising, in combination, a case having parallel end walls, one of which carries stationary contacts, and the other has a central aperture, an operating shaft extending through said aperture, a metal plate connected with the shaft and rotatable within the case adjacent the apertured wall and having tangs extending from the outer edge of the plate toward the other end wall, a non-conducting plate connected through said tangs with the first plate and held by said tangs in spaced relation to said first plate, a movable contact attached to the nonconducting plate, an indexing plate located between the first and second plates and driven through said tangs which are received by notches in the indexing plate, and a spring for urging the indexing plate toward the apertured end wall of the case, said apertured end wall and the index plate having co-operating locating provisions which are yieldingly maintained in engagement by said springs.

1,678,952. DOOR. WILLIAM PATTINSON, Derby, England. Filed Aug. 28, 1926. Serial No. 132,185, and in Great Britain Sept. 28, 1925. 3 Claims. (Cl. 20—38.)



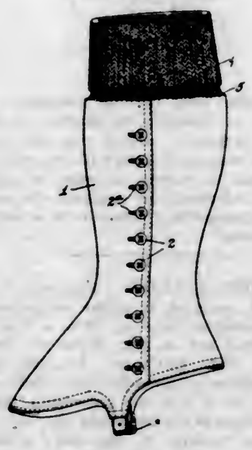
1. In means for adjusting or trueing the plane of doors of the kind referred to, a bar having a revolvably mounted part at substantially each end through each of which passes a bolt having a head at one end and a nut securely fixed thereon at the other, said bar being secured to a member of the door framing at substantially its longitudinal centre, substantially as described.

1,678,953. MILK-CAN COVER. PETER F. RAUEN, Omaha, Nebr. Filed June 29, 1926. Serial No. 119,351. 1 Claim. (Cl. 220—24.)



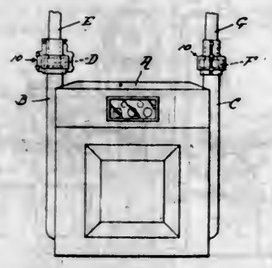
The combination with a milk can cover disposed within the neck of a can and having a chamber therein, an upwardly and outwardly flared annular flange carried by said cover, of downwardly and outwardly extending discharge pipes carried by said flange and extending through apertures in the neck and terminating beyond sides of the neck and forming means whereby water above a predetermined level within the chamber of the cover will be discharged beyond the side of the neck, said cover being axially movable from the neck of the can.

1,678,954. LEGGING. HERBERT SAMUEL RAUH, New York, N. Y. Filed Dec. 30, 1926. Serial No. 157,933. 1 Claim. (Cl. 36—2.)



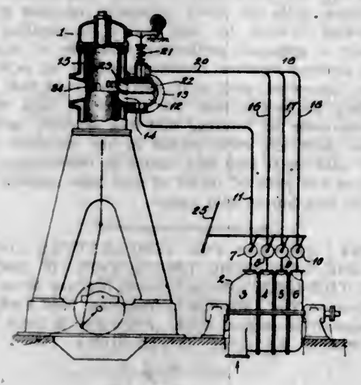
A close fitting knee-length legging comprising a body portion having an opening at one side extending upwardly from the bottom edge and terminating adjacent the upper edge of the body, said opening being defined by edge portions, fastening means for detachably uniting said edge portions, and an endless elastic cuff attached to the upper edge of the body adapted to fit about the leg of the wearer above the calf and adjust itself to the contour thereof.

1,678,955. TAMPERING-INDICATING DEVICE FOR GAS METERS. OTTO ROCKENBAUER, Westville, N. J. Filed Nov. 23, 1926. Serial No. 150,257. 4 Claims. (Cl. 70—122.)



1. A pipe union protector comprising a pair of members of similar form adapted for disposition about a union and the pipes adjacent thereto to form an enclosure therefor, and frangible means for holding said members together comprising lugs on each adapted to be clinchingly engaged with the other.

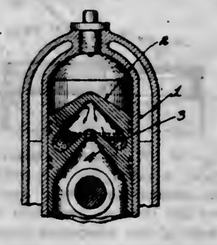
1,678,956. INTERNAL-COMBUSTION ENGINE. CHARLES SCHAER, Langenthal, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 9, 1925, Serial No. 55,232, and in Germany Sept. 23, 1924. 3 Claims. (Cl. 123—65.)



1. The combination with a two-cycle injection engine having means for admitting scavenging and auxiliary air thereto, of a multi-stage rotary compressor for supplying such air, the lower stage of such compressor serving to supply the scavenging air and the higher stages thereof serving to supply super-charging air at variably selected pressures.

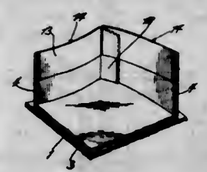
1,678,957. PISTON COOLING. OTTO PHILIPP, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 22, 1926. Serial No. 82,947, and in Germany Jan. 29, 1925. 1 Claim. (Cl. 123—176.)

An engine piston formed with a heat-transfer chamber adjacent its head wall, said chamber being of greater diameter than axial length and containing a mobile heat-carrying medium adapted to be thrown back and forth therein, the interior wall of said chamber presenting an



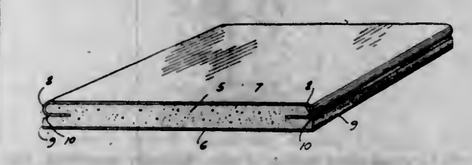
imperforate surface and the major portion thereof being inclined to the direction of piston movement to control the movement of the medium as described.

1,678,958. BOX. FRANK J. SCHLEICHER, St. Louis, Mo. Filed July 15, 1927. Serial No. 205,909. 2 Claims. (Cl. 229—45.)



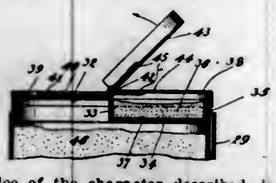
1. A box comprising an inside bottom forming sheet having an inwardly curving recess in one edge, and its remaining edge curving continuously from intersection with the ends of said recess and being of greater diameter in any direction than the width of said recess, and forming sharp corners at the intersection with said recess; and a side for said box comprising an elongated strip having notches in one edge, and tongues extending from said notches bent inwardly against the outer side of said bottom sheet, one end of said strip being at one of said corners and the body of said strip being bent around the curved edge of said sheet and against the edge of said sheet in said recess, and having its other end overlapping the inner side of said first end and secured thereto for a distance above the curved edge of said sheet, an infolded portion along the upper edge and throughout the extent of said wall and overlapping the overlapping portion of said wall, and an outside bottom forming sheet of the same shape as the inside bottom forming sheet secured to said tongues and having its edges extending beyond said wall.

1,678,959. EDGE-PROTECTED BOARD. JOHN SCHUMACHER, Los Angeles, Calif. Filed June 9, 1926. Serial No. 114,614. 2 Claims. (Cl. 154—45.9.)



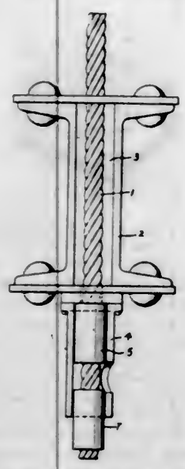
1. A plaster board comprising a cementitious core, a cover sheet therefor having a margin extended over the edge in bead form so as to partially cover the edge, an inset being formed at the juncture of the marginal edge and core.

1,678,960. CONTAINER. FREDERICK A. SCHWANNECKE, New Rochelle, N. Y. Filed Apr. 28, 1927. Serial No. 187,130. 5 Claims. (Cl. 132—83.)



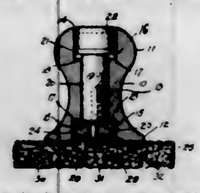
2. In a device of the character described, in combination, a receptacle, a cover for the receptacle having an opening therein, means for closing said opening, a plurality of hinged lids closable over said cover, an exterior recess in one side of the receptacle capable of holding a powder-puff and a hinged door carried by the receptacle capable of closure over said recess.

1,678,961. ATTACHMENT FOR WIRE ROPE. RUMSEY W. SCOTT, Montclair, N. J., assignor to American Cable Company, Inc., a Corporation of Delaware. Filed Apr. 9, 1927. Serial No. 182,289. 2 Claims. (Cl. 24—123.)



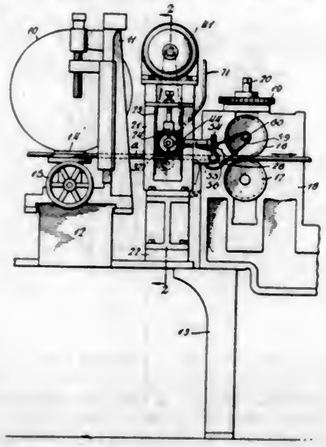
1. In combination, a stranded wire structure provided with a metal attaching sleeve retained thereon by compression, and a connector for said sleeve comprising a container provided with a seat and with a bore of a diameter which is a measure of the sufficiency of the reduction of the diameter of the sleeve to produce a predetermined compression.

1,678,962. SCOURING DEVICE. NATHAN I. STARK and JOSEPH SAUER, Philadelphia, Pa. Filed May 24, 1927. Serial No. 193,790. 45 Claims. (Cl. 15—209.)



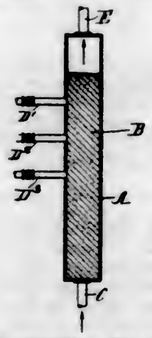
1. In a scouring device of the character described, the combination of a holder having a cavity at one end to retain a soluble cleansing medium, a refill wool pad removably carried by the holder over the end having the cavity, and means in the holder to project the wool pad from the holder to give access to the cavity.

1,678,963. MECHANISM FOR REMOVING BURRS FROM TUBES. MAXWELL H. SUSSMAN, Kew Gardens, N. Y., assignor to The Elyria Iron and Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 12, 1927. Serial No. 212,541. 4 Claims. (Cl. 90—14.)



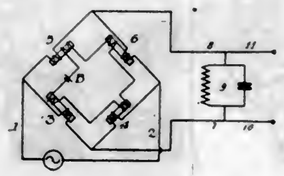
1. In a machine for removing burrs from tubes, the combination of means for supporting a travelling tube having an external burr extending lengthwise thereof, bearings located in spaced axial alignment with each other, a sprocket-wheel rotatably mounted on one of said bearings and fixed thereon against movement in axial directions, said sprocket-wheel being connected with a source of power, a cutter-shaft journalled in said bearings and axially slidable therein relatively to said sprocket-wheel, means whereby said sprocket-wheel and cutter-shaft are connected to move in unison without interference with the axial slidability of said shaft, a cutter-wheel carried by said shaft for cutting away said burr, a guide-pin projecting from one of said bearings, a grooved member slidably mounted on said guide-pin and connected with said shaft, a crank-disk having a bushing projecting into the groove of said member, and mechanism for rotating said disk whereby said member and shaft are reciprocated in the direction of the axis of said shaft and said cutter is reciprocated transversely of the path of travel of said tube simultaneously with the rotation of said cutter.

1,678,964. PROCESS FOR TEMPERATURE CONTROL IN THE SYNTHETIC PRODUCTION OF AMMONIA AND THE LIKE. HANS SVANOE, Niagara Falls, N. Y., assignor to The Ammonia Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 3, 1926. Serial No. 99,488. 6 Claims. (Cl. 23—198.)



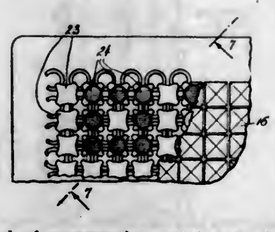
5. The method of controlling the temperature and reaction of an ammonia gas synthesis which comprises initially introducing to reaction in the presence of a catalyst a gas mixture which comprises an excess of hydrogen whereby high heat conductivity and a controlled reaction is secured and in subsequently introducing to reaction in the presence of a catalyst other gas containing supplemental nitrogen to modify the nitrogen content of the gas mixture whereby a relatively lower heat conductivity and further and more active reaction is secured.

1,678,965. FREQUENCY MULTIPLIER. OTTO VON BRONK, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Sept. 3, 1921, Serial No. 498,422, and in Germany Aug. 26, 1913. 4 Claims. (Cl. 172—281.)



1. A circuit arrangement for increasing the frequency of alternating currents comprising a circuit arrangement in the form of a Wheatstone bridge, a winding in each branch of said bridge, a magnetic core in each winding, means for substantially saturating said cores with direct current flux, the windings and cores being so related that the direct current flux aids the flux due to the windings in two of the branches and opposes the flux due to the windings in the other two branches, whereby a plurality of harmonics are produced, a source of alternating current connected to opposite points of said bridge, output terminals connected to the other diagonally opposite points of said bridge and means connected across said output terminals for short-circuiting all of the harmonics except the one at the desired frequency.

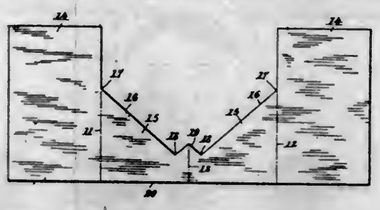
1,678,966. METHOD OF PRODUCING ORNAMENTAL MESH FABRIC. CHARLES A. WHITING, Franklin, Mass., assignor to Whiting & Davis Company, a Corporation of Massachusetts. Filed Aug. 13, 1927. Serial No. 212,823. 16 Claims. (Cl. 101—129.)



2. A method of ornamenting metal mesh fabric which comprises supporting the fabric and anchoring a plurality of links throughout the fabric against relative movement, including links in portions of the fabric which are to receive ornamentation, masking all but selected portions of the fabric thus anchored, and subjecting the unmasked portions to a coloring treatment.

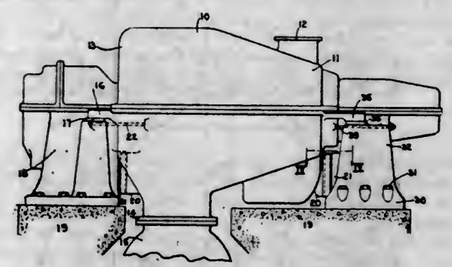
1,678,967. DISPLAY DEVICE. THOMAS H. WILKINSON, Cranford, N. J., assignor to Gustav H. Frommann, Concord, N. Y. Filed Mar. 2, 1926. Serial No. 91,656. 3 Claims. (Cl. 211—157.)

1. A device of the character described comprising a blank having a straight lower edge foldable along three defined vertical lines to provide outer portions and intermediate portions; said intermediate portions being of reduced height relative to said outer portions and, when said blank is adjusted to operative position, converging forwardly from said outer portions to form a V-shaped support having upper edges extending forwardly and



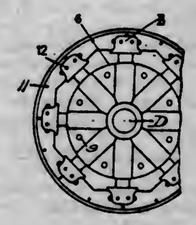
downwardly from intermediate points on said outer portions and providing recesses adapted to receive an article to be displayed; said outer portions projecting laterally at the rear of said intermediate portions transversely of said upper edges to form angles with said intermediate portions, substantially as specified.

1,678,968. TURBINE-CYLINDER SUPPORT. ROBERT C. ALLEN, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvinia. Filed Mar. 1, 1927. Serial No. 171,904. 8 Claims. (Cl. 253—39.)



1. Means for supporting a sliding end of an elastic fluid machine comprising a rigid support, a machine casing, a bearing pedestal slidingly mounted on the rigid support, means for slidingly supporting said sliding end of the machine casing upon the rigid support independently of the bearing pedestal, and means for tying the bearing pedestal to the machine casing to slide therewith.

1,678,969. RESILIENT VEHICLE WHEEL. PEDRO ALTUNA, San Sebastian, Spain. Filed Sept. 15, 1925, Serial No. 56,464. Renewed June 5, 1928. 2 Claims. (Cl. 152—48.)



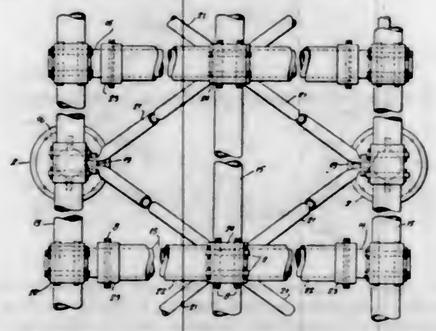
1. A vehicle wheel embodying a rim, a flange upon the interior of the rim having angularly related edge portions and provided with a slot parallel with each edge portion, and resilient spokes equal in number to said angularly related edge portions of the flange, said spokes having forked ends straddling the flange and slidably engaging the slots and angularly related edge portions.

1,678,970. FACIAL BANDAGE. OLGA LOUISE ARLEN, New York, N. Y. Filed Nov. 5, 1926. Serial No. 146,381. 7 Claims. (Cl. 128—164.)



1. A facial bandage comprising means to support the bandage on the head, two flaps adapted to engage the opposite cheeks of the wearer, said flaps overlapping each other over the mouth, and means to secure said flaps in their overlapping position.

1,678,971. PORTABLE METAL STRUCTURE. JOHN BERGESEN, Sr., Brooklyn, N. Y. Filed Apr. 4, 1927. Serial No. 180,774. 7 Claims. (Cl. 189—1.)



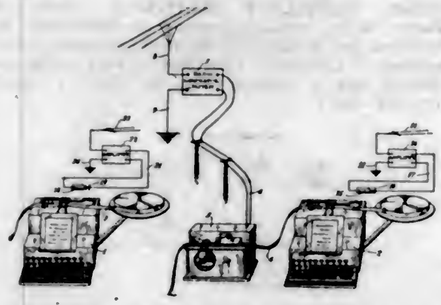
1. In a portable metal structure, a plurality of adjustable columns, each of which embodies telescoping sections longitudinally perforated to permit of the passage of locking bolts through alined perforations in the respective sections for the purpose of positively locking the sections in the desired adjustment, a coping fixture detachably secured to the top of each column and provided with an opening through which a spacer may be passed, tubular spacers passed through the coping fixtures of the respective columns and having longitudinally spaced perforations through which locking pins may be passed to lock the spacers against longitudinal movement, fixtures embracing at least some of the spacers and also perforated to receive locking pins adapted to be passed through the fixtures and the spacers, and braces adapted to extend between fixtures and embodying relatively adjustable parts whereby the length of the braces may be regulated.

1,678,972. AIR CUSHION. FRANK BRONBERGER, Northport, N. Y. Filed May 28, 1927. Serial No. 194,890. 1 Claim. (Cl. 208—26.)



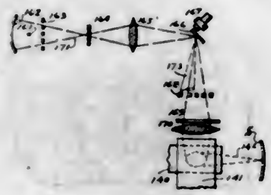
An air cushion for vehicle foot supports comprising a rigid plate, a rubber pad fixed on said plate, a cushion on said pad, said cushion having a single air chamber and a corrugated upper surface, and a valve fixed in said chamber to control the flow of air thereto, said valve passing through said pad and said plate.

1,678,973. SIGNAL-MONITORING SYSTEM. VINCENT H. BROWN, Ozone Park, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Jan. 25, 1926. Serial No. 83,436. 2 Claims. (Cl. 250—8.)



1. A radio transmitting system comprising a code sending machine, a transmitting antenna system located at a point geographically remote therefrom, a land line connecting said code sending machine and said antenna system, a second antenna system located at a point adjacent said code sending machine, said second named antenna system being tuned to the frequency of said first named antenna system and adapted to receive signal energy therefrom, and means associated with said second named antenna system for giving a visual signal indication of the signal energy transmitted from said code sending machine by said first named antenna system, said visual indicating means being located adjacent said code sending machine and within the immediate field of vision of the operator, whereby an exact reproduction of the transmitted code is at all times visible to the said operator.

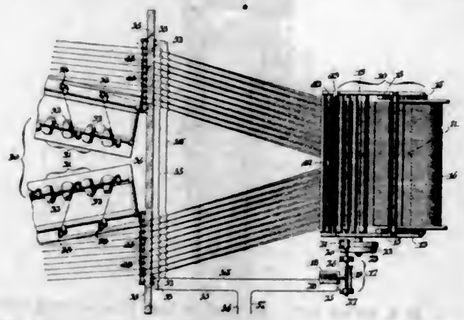
1,678,974. ELECTRICAL PHOTO-TELESCOPIC APPARATUS. PAUL L. CLARK, Brooklyn, N. Y. Filed May 23, 1924. Serial No. 715,350. 13 Claims. (Cl. 178—6.)



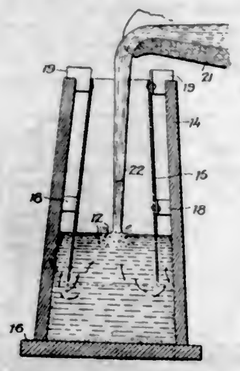
1. An apparatus for receiving photo-electric impulses and projecting the light values of said impulses to juxtaposed areas of a projection screen, comprising a light source, means for intercepting rays from said source proportional to the strength of said impulses and directing means for directing the said rays after interception to traverse a plurality of juxtaposed bands of substantially equal length on a curved screen of radius equal to the distance between the screen and the said directing means.

1,678,975. YARN-WINDING APPARATUS. GEORGE B. COCKER, Gastonia, N. C. Filed Nov. 23, 1926. Serial No. 150,185. 10 Claims. (Cl. 28—32.)

1. The combination in yarn winding apparatus embodying a beam warper with electrically-controlled automatic stop mechanism, and a creel to support a multiplicity of individual yarn supply packages in vertically-spaced horizontal rows; of a board of insulate-material interposed transversely of the apparatus in a spatial interval between the warper and the creel, said board being equipped with horizontal lines of yarn guide eyes at levels corresponding to the elevations of the horizontal rows of yarn packages in the creel, and, in association with each line of guide eyes, a set of serially-grouped yarn-engaging stop control instrumentalities pivotally engaging a common axis on a fulcrum bracket plate for capacity, when released through yarn breakage, to electrically bridge the bracket plate and a contiguous cooperating contact plate, the two groups of plates being respectively connected in parallel in the circuit through the stop mechanism aforesaid.



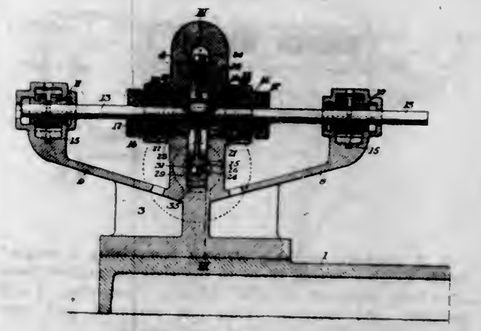
1,678,976. METHOD OF AND APPARATUS FOR CASTING INGOTS. JOSEPH A. DURFEE, Steubenville, Ohio. Filed Nov. 20, 1926. Serial No. 149,692. 15 Claims. (Cl. 22—139.)



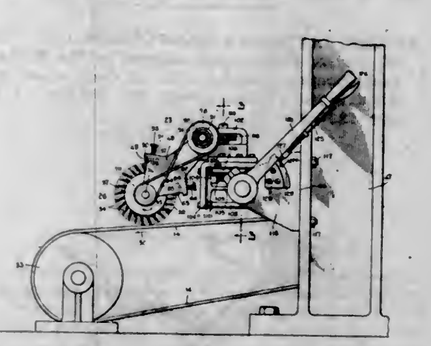
1. The process of casting ingots in a mold which consists in placing a partition within the mold for dividing the mold into an inner and outer compartment, and in pouring molten metal into the inner compartment whereby it is caused to flow under a submerged portion of the partition to the outer compartment.

1,678,977. PUMP. MATTHEW J. FINN, Pittsburgh, Pa. Filed Jan. 25, 1922. Serial No. 531,619. 2 Claims. (Cl. 103—96.)

1. A pump, comprising an impeller having vanes on the periphery thereof, means extending laterally from each side of said impeller near the base of said vanes for throwing the fluid outwardly, a shaft for the impeller, a casing having a chamber in which said impeller rotates and being divided horizontally along a plane passing through the shaft, said casing being provided with an inlet to and an outlet from said chamber, said inlet and outlet being in line with each other, means separating said inlet from said outlet and free from contact with the impeller and having a channel through which said vanes move and said casing being in close proximity to the edges of said laterally extending means to form a substantially closed channel enclosing said vanes, and means whereby said separating means may be adjusted radially towards and from said impeller.

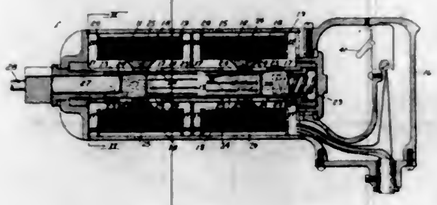


1,678,978. APPARATUS FOR RECONDITIONING FELTS OF PAPER-MAKING MACHINES. MORTIMER F. FLYNN, West New Brighton, N. Y., assignor to New Nap Systems, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 11, 1925. Serial No. 49,676. 12 Claims. (Cl. 92—50.)



1. The combination with a paper making machine having a conveyer of felt, rollers for supporting, guiding and driving said felt conveyer and a frame for rotatively supporting said rollers, of a track secured fixedly relative to said frame, a napping cylinder having a width less than the width of said felt conveyer, means for supporting said napping cylinder from said track to locate the ends of the bristles of said napping cylinder within the woven structure of said felt conveyer, and gearing means for moving said napping cylinder along said track transversely of said felt conveyer upon the longitudinal movement of said felt conveyer and the engagement of the bristles of said napping cylinder with said felt conveyer.

1,678,979. ELECTRIC PERCUSSIVE TOOL. HAROLD E. FOX, Pittsburgh, Pa., assignor to Syntron Company, a Corporation of Delaware. Filed Nov. 21, 1923. Serial No. 676,043. 6 Claims. (Cl. 172—126.)



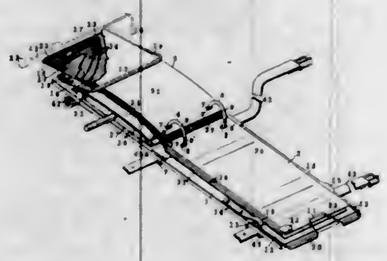
6. A magnetic striking element comprising a magnetizable member having fused to the striking surface thereof a thin layer of material different from that of said member, said material being less magnetic and more impact-resisting than that of said member.

1,678,980. PROTECTIVE COATING FOR METAL AND THE LIKE. JOHN B. W. GARDINER, New York, N. Y. Filed Oct. 12, 1926. Serial No. 141,241. 4 Claims. (Cl. 91—68.)

2. The method of coating materials which comprises the steps of applying to the surface of a material a layer of bituminous emulsion formed without the use of soap and covering such bituminous emulsion with a layer of dry cement while the emulsion is still wet, whereby water is drawn from the emulsion and the cement is hydrated to form a protective coating for the bituminous material and the surface of the bituminous material and the cement are caused to intimately unite and cohere.

4. A product as specified in claim 3, in which said base is metal.

1,678,981. AVIATOR'S MANIFOLDING LOG. CHARLES W. GILLER, Shelby, Ohio, assignor to The Shelby Salesbook Company, Shelby, Ohio, a Corporation of Ohio. Filed Sept. 7, 1922. Serial No. 586,588. 7 Claims. (Cl. 282—8.)



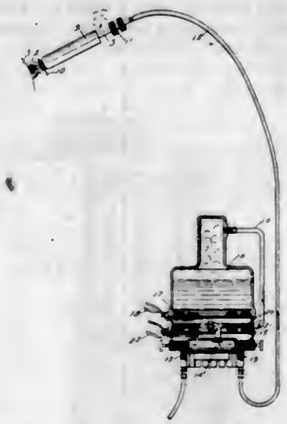
1. A recording device including, in combination, a plurality of sets of superposed record leaves and material for transferring inscription on an upper leaf of a set to the underlying leaves thereof, each of said sets including a sheet folded to provide superposed leaves, and means adapted to secure the free ends of said leaves to each other.

1,678,982. SPRING BOLT. JAMES C. GRIFFIN, Erie, Pa., assignor to Griffin Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed Dec. 13, 1926. Serial No. 154,454. 3 Claims. (Cl. 292—171.)



1. In a spring bolt, the combination of a backing plate having an upturned end perforated to receive the bolt and a return bend on the upturned end; a bolt in the perforation in the upturned end, said bolt being reversible, having a beveled end slidable on the return bend with the bolt in one reversed position; and a spring operating the bolt.

1,678,983. METHOD OF AND APPARATUS FOR FORMING PERMANENT WAVES. EDWARD NELSON HALL, Meadville, Pa. Filed July 13, 1927. Serial No. 205,490. 11 Claims. (Cl. 132—33.)

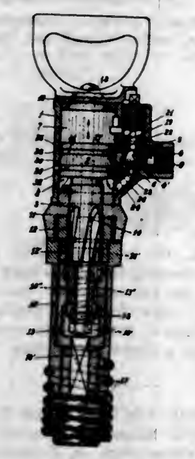


1. The method of forming permanent waves in attached hair which consists in confining and enclosing the hair in a wave-producing formation; generating the vapor at a point remote from the hair; superheating the vapor and conveying the superheated vapor into the enclosed hair.

1,678,984. PROCESS FOR REFINING PETROLEUM OILS WITH DOCTOR SOLUTION. ROBERT L. HALLETT, Brooklyn, N. Y., assignor to National Lead Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 17, 1926. Serial No. 88,927. 2 Claims. (Cl. 196—33.)

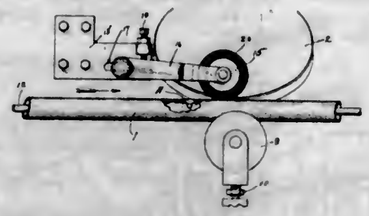
1. The improvement in the purification of petroleum products which consists in dissolving lead chloride in a caustic soda solution and treating said products with the resulting solution to remove the sulphur therefrom.

1,678,985. ROCK DRILL. JOSEF KÖHLEN, Herne, Germany. Filed Jan. 20, 1923, Serial No. 613,889, and in France Nov. 17, 1922. 2 Claims. (Cl. 121—18.)



1. A pneumatic tool comprising a cylinder, a piston slidably mounted therein, means for admitting motive fluid to opposite end spaces of said cylinder so as to be alternately effective upon opposite faces of said piston to reciprocate the same in said cylinder, said piston being provided with two annular, peripheral channels, each located in spaced proximity to the contiguous end of said piston, said cylinder being provided with a pair of exhaust ports in spaced relation to each other and further having by-pass channels each having its two ends terminating at the inner surface of said cylinder for establishing connection between said opposite end spaces of the cylinder, an annular channel of the piston and an exhaust port, the distance between the two ends of each by-pass channel being no greater than the distance between an end face of the piston and the contiguous annular channel thereof.

1,678,986. ELECTRIC WELDING. JOHN F. LAWSON, Brooklyn, N. Y. Filed June 10, 1924, Serial No. 719,028. Renewed Apr. 6, 1926. 13 Claims. (Cl. 219—6.)

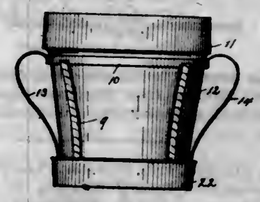


9. The method of progressively electric welding a long seam which consists in passing current into and from the work through comparatively short lengths of the work at opposite sides of the seam, exerting welding pressure locally on the seam adjacent the zone of said current, passing the seam lengthwise through the zones of said current and said pressure to weld the same progressively, and working on the seam edges to cause the seam edges to be brought together at an added distance in advance of the point where the welding is done.

1,678,987. HYPOCHLORITE COMPOSITION. JAMES DOUGLAS MACMAHON, Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, New York, N. Y., a Corporation of Virginia. Filed May 20, 1927. Serial No. 193,065. 3 Claims. (Cl. 23—248.)

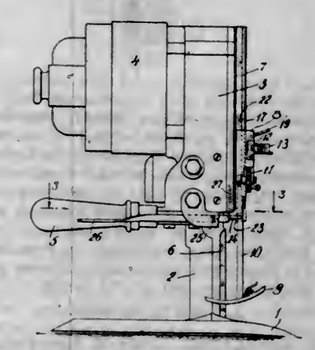
1. A composition comprising a substantially dry mixture containing anhydrous sodium sulphate and calcium hypochlorite.

1,678,988. FLOWERPOT HOLDER. CHARLES MAIER, New York, N. Y. Filed Jan. 21, 1927. Serial No. 162,449. 4 Claims. (Cl. 47—34.)



1. A flower pot holder of the class described comprising an open frame shaped to conform to the contour of a flower pot and provided with a top and bottom rim and an open bottom, said top rim supporting the flower pot, handles connected to the top and bottom rim and a removable water receptacle detachably connected to the said open bottom.

1,678,989. CLOTH-CUTTING MACHINE. HYMAN MAIMIN, New York, N. Y., assignor to H. Maimin Company Incorporated, New York, N. Y., a Corporation of New York. Filed July 23, 1925. Serial No. 45,447. 7 Claims. (Cl. 164—75.)

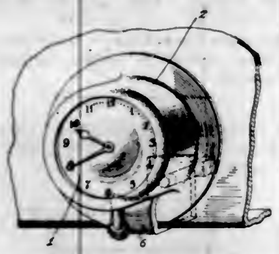


1. A cloth-cutting machine comprising the combination of a supporting frame, a vertically adjustable presser foot, a rack on the frame, a pawl movable with the presser foot designed to engage the rack and hold the presser foot in adjusted position, and means for moving the rack transversely to disengage the pawl and permit the presser foot to fall by gravity.

1,678,990. MOTOR CLOCK MOUNTING. JAMES F. MANSFIELD, Floral Park, N. Y. Filed Mar. 18, 1927. Serial No. 176,384. 1 Claim. (Cl. 244—29.)

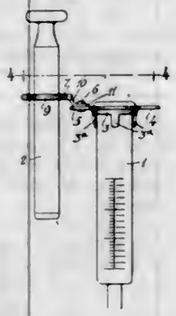
An instrument provided with a frame adapted to bear against the face of an instrument board, a substantially U-shaped substantially rigid bracket, one leg of which is secured to the lower portion of the frame and which bracket is adapted to extend beneath the lower edge of the instrument board with the other leg of the bracket extending upwardly behind the instrument board and at a substantial distance therefrom, and a screw threaded

through the latter leg of the bracket in such a manner as to occupy a downwardly inclined position when screwed into engagement with the instrument board and



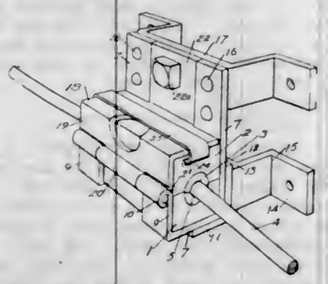
at the same time have its engaging end positioned at a substantial distance from the lower edge of the instrument board, said screw having a biting end.

1,678,991. PLUNGER CLIP FOR SYRINGES. ALEXANDER MARSCHALEK, East Rutherford, N. J., assignor to Becton, Dickinson & Co., Rutherford, N. J., a Corporation of New Jersey. Filed Nov. 2, 1927. Serial No. 230,405. 10 Claims. (Cl. 128—218.)



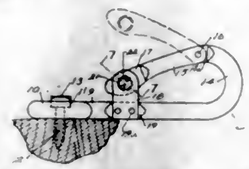
1. The combination with a syringe provided with a plunger and barrel, of means for holding the plunger against accidental movement while in the barrel or holding the plunger out of the barrel but adjacent thereto, said means including a pair of gripping arms, and means for pivotally mounting said arms on said barrel so that it may swing at a right angle to the barrel whereby the arms may be swung to grip the plunger while in the barrel and swung to a different position to grip the plunger when out of the barrel.

1,678,992. INSULATOR. JOHN R. MARSHALL, McKean, Pa. Filed Sept. 10, 1927. Serial No. 218,675. 3 Claims. (Cl. 173—314.)



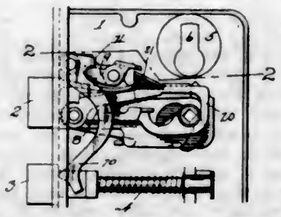
1. In an insulator, the combination of an insulator block formed of top and bottom halves, said halves having opposing faces forming a wire-receiving perforation with the blocks assembled; a support for the bottom half comprising hook plates in which the half is mounted; a top plate hinged to the hook plates and carrying the top half; and means locking the top plate to the hook plates.

1,678,993. HOOK. JOHN R. MARSHALL, McKean, Pa. Filed Jan. 18, 1928. Serial No. 247,689. 8 Claims. (Cl. 24—241.)



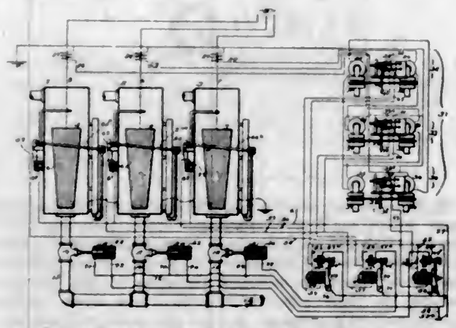
1. In a hook, the combination of a shank having a screw-threaded opening therein; a hook end on the shank; a bar pivoted on the hook end closing the hook, said bar having a screw-threaded opening adapted to be brought into register with the screw-threaded opening in the shank; and a screw connection between the shank and the bar.

1,678,994. DOOR LOCK. GEORGE N. MASON, Reading, Pa., assignor to Reading Hardware Corporation, Reading, Pa., a Corporation of Pennsylvania. Filed May 12, 1927. Serial No. 190,698. 1 Claim. (Cl. 70—29.)



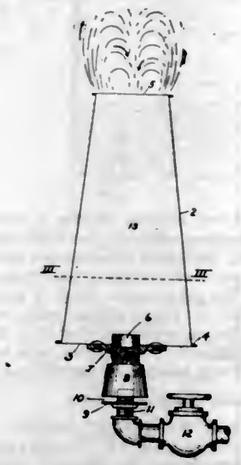
In a door lock having a dead bolt, a spring-backed latch bolt, and levers carried by the dead bolt through which the latch bolt may be actuated; a spring backed lever, pivoted on and carried by the dead bolt, a bolt actuating cam, said spring backed lever having a heel on its inner or free end which heel forms one of the walls of the cam engaging throat of the dead bolt and which heel is capable of being depressed whereby the cam may enter said throat at all points of projection of said bolt.

1,678,995. MECHANISM FOR THE CONTROL OF ELECTRIC STEAM GENERATORS. WILLIAM D. MAXIM and EVERETT A. MAHANNAH, New York, N. Y., assignors to International Paper Company, a Corporation of New York. Filed Dec. 14, 1926. Serial No. 154,840. 10 Claims. (Cl. 219—20.)



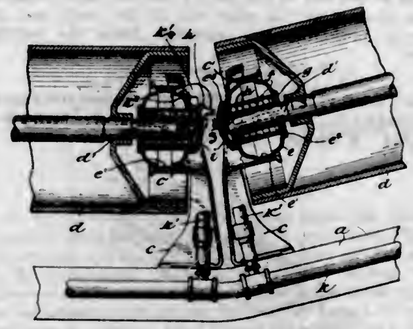
1. In combination with a plurality of electric steam generating tanks, means for supplying the same with electric current to heat the water therein, a feed water supply for each tank, an electrically operated means for each feed water supply, said several electrically operated means being supplied with current from a common source, and an electrically operated controlling device for each of said electrically operated means supplied with current from said common source, and being adapted, by an excess of current in one tank over that in another tank, to shut off the supply of feed water to the tank in which the excess of current occurs.

1,678,996. BURNER. HENRY MCKINNIE, Pittsburgh, Pa. Filed Jan. 23, 1926. Serial No. 83,269. 1 Claim. (Cl. 158—99.)



In a fuel mixing burner, the combination of an upwardly tapering frusto-conical sheet metal casing having its maximum diameter bottom portion provided with a flat transverse closed bottom wall, a gas and air mixture pipe secured to and extending upwardly through the central portion of the bottom wall and slightly above its inner surface, a gas supply pipe leading thereto with an intervening adjustable air supply mixer, and a circular flat perforate outlet top cover extending across the minimum diameter delivery end of the burner.

1,678,997. IDLER FOR BELT CONVEYERS. GEORGE E. MELLIN, New York, N. Y. Filed Aug. 24, 1922. Serial No. 584,013. 2 Claims. (Cl. 308—20.)

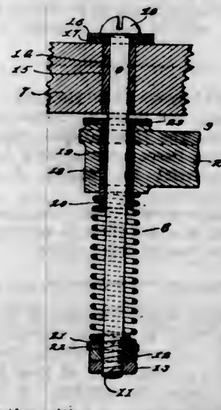


1. A pressed metal bearing box for an idler roll having an open end to receive the bearing, a shoulder at the opposite end on which the bearing seats, a bearing plate resting in the box at the last named end and engaged with the bearing and a closing plate pressed in the open end of the box to close the same, said box being provided with an opening at its opposite end back of the said bearing plate for the introduction of a knock-out punch.

1,678,998. PROCESS OF TANNING HIDES. KURT H. MEYER and HERMANN SCHÜTTE, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Oct. 27, 1924. Serial No. 746,248, and in Germany Nov. 14, 1923. 7 Claims. (Cl. 149—5.)

1. The process of tanning which consists in treating hides with a slightly acid solution containing a sulfonation product of an aliphatic tar.

1,678,999. MOTOR MOUNTING. HENRY H. MURRAY, Riverton, N. J., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed Nov. 15, 1923. Serial No. 674,907. 1 Claim. (Cl. 248—16.)

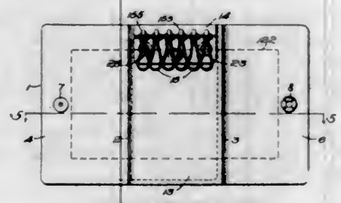


The combination with a motor-support and a motor comprising a rigid motor-frame, of a plurality of rigid rods mounted on said support and projecting therefrom, metallic compression springs supported at their lower ends by said rods and surrounding but spaced from said rods and upon the upper ends of which said motor-frame rests and by which the weight of said motor is balanced, said frame being provided with a plurality of openings through which said rods respectively pass, yielding, sound-insulating material between said rods and said support to prevent any actual contact of said rods with said support and to permit said rods to yield slightly with respect to said support, and bushings of yielding, sound-insulating material fitted into said openings in said motor, frame, each bushing having a bore therethrough of a diameter substantially larger than the diameter of the rod passing therethrough and projecting beyond said motor-frame into the space between a spring and a rod whereby said motor frame is free to slightly move and vibrate in any direction with respect to said rods and with respect to said support unrestrained except by the resiliency of said springs and gravity.

1,679,000. RUBBER SOFTENING AND COMPOUNDING INGREDIENT. CLAYTON OLIN NORTH, Tallmadge Township, Summit County, Ohio, assignor to The Rubber Service Laboratories Co., Akron, Ohio, a Corporation of Ohio. Filed Oct. 2, 1924. Serial No. 741,278. 3 Claims. (Cl. 106—23.)

3. A composition of matter for use as a softening and filling ingredient in the manufacture of a vulcanized rubber product, said composition comprising a mixture of 1000 gallons of a mineral lubricating oil having a viscosity of not over 120 seconds Saybolt at 100° F., and not more than 450 pounds of cotton seed oil.

1,679,001. KEY CASE. PATRICK W. PENTA, Medford, Mass., assignor to Wilson Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 12, 1927. Serial No. 160,624. 4 Claims. (Cl. 150—40.)



1. A key case comprising a back member with a plurality of sections, one of which carries a pocket forming member with a window therein for carrying and displaying papers, a key carrying panel with a key plate hinged to the pocket forming member to provide a swinging attachment of the key carrying member to the back member.

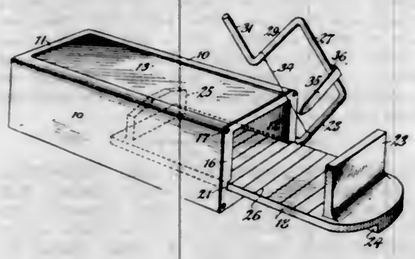
1,679,002. WELDING ELECTRODES. NORMAN B. PILLING, Elizabeth, and JOHN G. SCHOENER, Bayonne, N. J., assignors to The International Nickel Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 19, 1925. Serial No. 63,555. 5 Claims. Cl. 219—8.)

2. An arc welding electrode comprising a normal nickel alloy, and a coating in which there is approximately 19% titanium, and approximately 6% calcium.

1,679,003. WELDING ROD. NORMAN B. PILLING, Elizabeth, and JOHN GEO. SCHOENER, Bayonne, N. J., assignors to The International Nickel Company, Inc., New York, N. Y., a Corporation of New Jersey. Filed Dec. 5, 1927. Serial No. 237,979. 5 Claims. (Cl. 219—8.)

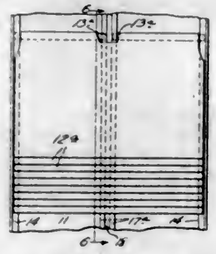
1. A welding electrode comprising a metallic nickelous matrix malleableized by an alkaline-earth metal, and an associated coating including a titanium alloy and a calcium alloy, titanium aggregating from 0.1 to 10%, and calcium from 0.1 to 8% of the weight of the electrode, respectively.

1,679,004. APPARATUS FOR STORING AND CUTTING BLOCK MATERIAL. ALBERT F. PINKEL and MATTHEW J. BRUNNER, Buffalo, N. Y.; said Brunner assignor of his entire right to Gotthold P. Berner, Buffalo, N. Y. Filed Feb. 13, 1923. Serial No. 618,842. Renewed Nov. 10, 1927. 2 Claims. (Cl. 107—20.)



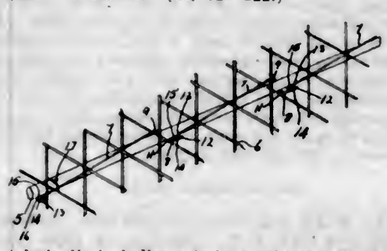
1. An apparatus of the character described comprising a casing having an opening at its front end and upper and lower longitudinal grooves on the upper and lower parts of the inner surface of its sides, a transparent plate engaging its longitudinal edges with said upper grooves and forming the top of said casing, a frame secured to the front end of said casing around said opening, and a shelf slidable with its longitudinal edges in said lower grooves and provided on its front part with a shutter for closing said opening.

1,679,005. INDEX DEVICE. JAMES H. RAND, Jr., Tonawanda, N. Y., assignor, by mesne assignments, to Remington Rand, Inc., New York, N. Y., a Corporation of Delaware. Filed July 31, 1924. Serial No. 729,276. 8 Claims. (Cl. 129—16.)



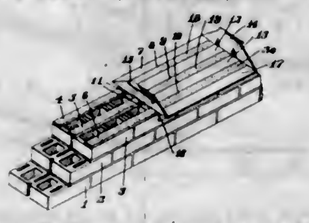
1. A record-displaying member having a plurality of coplanar retaining tongues adjacent one edge thereof, one of said tongues being positioned adjacent one side edge of said displaying member, and another of said tongues being positioned adjacent the opposite side edge of said displaying member, a pair of said tongues being oppositely directed and positioned intermediately of said side edges, and a support having parts for engaging said tongues to maintain said displaying member on said support.

1,679,006. CLIP FOR FASTENING METAL LATHS. JOHN S. RAYNOR, Philadelphia, Pa. Original application filed Mar. 17, 1925, Serial No. 16,098. Divided and this application filed Sept. 23, 1926. Serial No. 137,231. 4 Claims. (Cl. 72—122.)



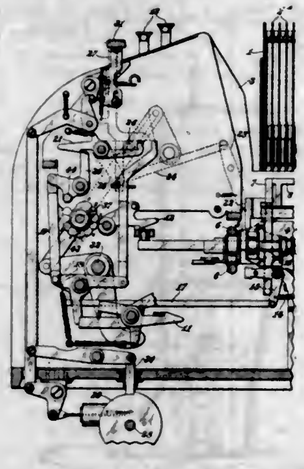
4. A lath clip including a body, a substantially L-shaped stay leg at one end of the body, a substantially U-shaped locking element at the other end of the body, and an outwardly projecting toe extending from the locking element.

1,679,007. MORTAR DISTRIBUTOR. GEORGE D. REAGAN, Oklahoma City, Okla. Filed June 21, 1927. Serial No. 200,464. 3 Claims. (Cl. 72—128.)



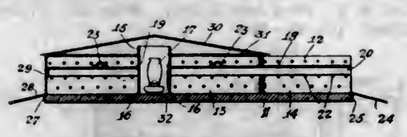
1. A mortar distributor of the kind described, having a plurality of channels of predetermined width therein, said channels being open at their ends to permit sliding of said distributor along a wall without disturbing the mortar course laid thereby, flanges of predetermined height depending from said distributor at the sides of said channels and adapted to rest on a wall, a guiding flange on the under surface of said distributor and adapted to engage one face of a wall, hand holds at opposite ends of said distributor, and webs between said channels to block the voids in hollow wall structure, said first named flanges, said hand holds and said webs being formed of a single piece of material.

1,679,008. ACCOUNT-FINDING MACHINE. EDWIN L. KELLER and VICTOR R. A. STROH, St. Louis, Mo., assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Nov. 8, 1920. Serial No. 422,659. 18 Claims. (Cl. 129—16.1.)



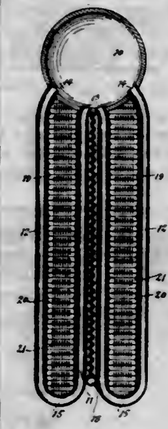
1. In an account finding machine, selecting means, a series of controlling elements therefor, actuating means for concurrently setting a plurality of said elements for cooperation with said selecting means, and means adapted to restore the set elements in succession.

1,679,009. BROODER FOR CHICKENS. VINCENT R. ROSTEK, Philadelphia, Pa. Filed July 22, 1927. Serial No. 207,710. 2 Claims. (Cl. 119—32.)



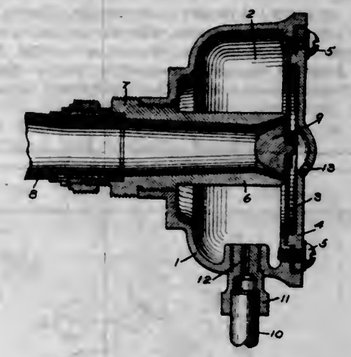
1. In a brooder, a base; a casing supported upon said base; a lamp housing projecting upward from the base within said casing, said housing having an opening covered with transparent material; a runway leading to the interior of the brooder in line with said covered opening; an adjustable cover having an opening therein for passing over the housing; a hood spaced from the upper edge of the casing causing the heated air issuing from the housing to heat the cover; and gangways for facilitating ingress to and egress from the interior of the brooder and also for shutting off access thereto.

1,679,010. COOLING UNIT FOR REFRIGERATORS. FRANKLIN G. SLAGEL, Buffalo, N. Y., assignor to Fedders Manufacturing Company Inc., Buffalo, N. Y., a Corporation of New York. Filed Apr. 23, 1927. Serial No. 186,027. 3 Claims. (Cl. 62—95.)



2. A cooling unit for refrigerators comprising a vaporizing chamber, a plurality of longitudinal rows of transverse refrigerant loops connected at their upper ends with said chamber, and a row of longitudinal loops arranged lengthwise between said rows of transverse loops and connected at their upper ends with said chamber.

1,679,011. SIGNAL DEVICE. ROBERT G. WIDMYER, Irwin, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed June 5, 1926. Serial No. 113,884. 5 Claims. (Cl. 116—142.)

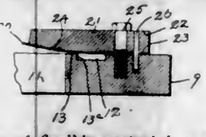


3. A sound producing device comprising a casing having a chamber adapted to be supplied with fluid under pressure, a tube open to the atmosphere and extending into said chamber, a flexible diaphragm normally seating without pressure against the end of said tube and controlling communication from said chamber to said tube, and a weight attached to said diaphragm for regulating the vibratory action of the diaphragm.

1,679,012. VALVE. EDWARD WILSON, St. Louis, Mo., assignor to National Pump and Compressor Company, St. Louis, Mo., a Corporation of Delaware. Filed Dec. 26, 1925. Serial No. 77,689. 4 Claims. (Cl. 251—119.)

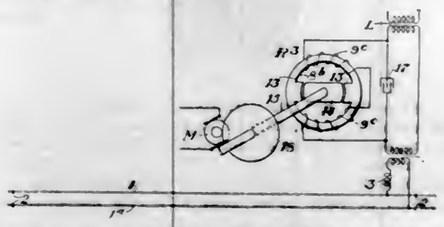
1. A valve comprising a block, a seat formed on one face of said block, an elongated port formed through said block and seat, a laterally extending channel formed

through said seat adjacent the one end of said port, a strip of flexible material resting on said seat and extending over said channel and port, means having a portion thereof upwardly curved for limiting the upward move-



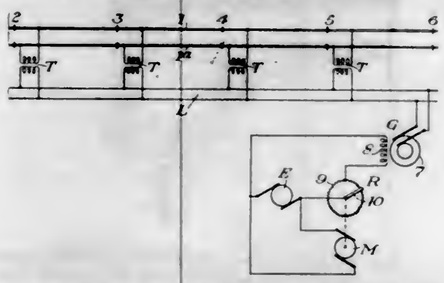
ment of said strip of flexible material, means for securing said strip of flexible material and limiting means to said block and adjacent said channel and means for restraining said strip and limiting means against lateral shifting.

1,679,013. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. CONRAD H. ZIERDT, Penn Township, Allegheny County, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 23, 1926. Serial No. 143,618. 11 Claims. (Cl. 246—34.)



11. In combination with the rails of a railway track and a source of alternating current connected therewith, a reactor interposed in said connection, and movable means for periodically varying the impedance of said reactor.

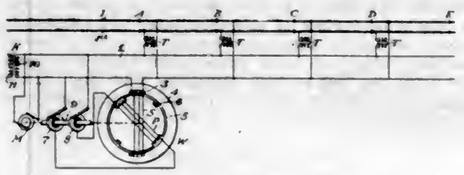
1,679,014. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. ROBERT M. GILSON, Pittsburgh, and ANDREW A. SKENE, Wilkinsburg, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Dec. 11, 1926. Serial No. 154,103. 5 Claims. (Cl. 246—34.)



4. In combination, a railway track, a generator for supplying alternating current to said track, a rheostat in the field circuit for said generator, and means for constantly operating said rheostat to continuously vary the voltage applied to said track by said generator.

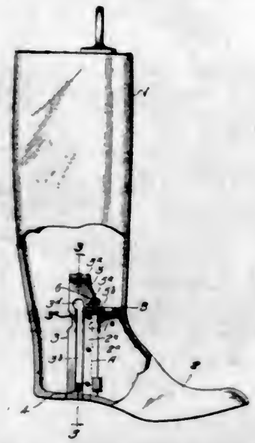
1,679,015. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. CHARLES R. BEALL, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Jan. 4, 1927. Serial No. 158,842. 6 Claims. (Cl. 246—34.)

4. In combination, a pair of conductors, a source of alternating current connected to said conductors, a first winding connected in series with one of said conductors, a second winding connected in multiple with said source



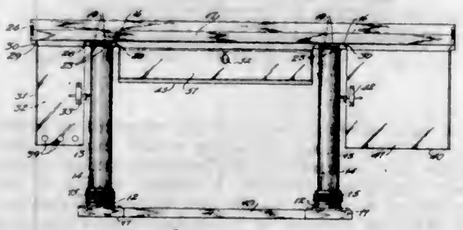
and inductively related to said first winding, and means for continuously rotating one of said windings.

1,679,016. BOOT-TREE OR LAST. WILLIAM S. ASHTON, Watertown, Mass., assignor to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed Feb. 17, 1927. Serial No. 168,984. 6 Claims. (Cl. 18—46.)



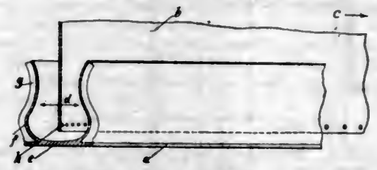
1. A boot tree or last comprising a leg section and a toe section having faces abutting along intersecting planes, interengaging means effecting a limited sliding connection between said parts along one of said intersecting planes, including means for permitting the toe section to have a swinging movement about an axis parallel to said intersecting planes at the extremity of its sliding movement in one direction.

1,679,017. SERVICE TABLE. JOHN M. ATHANS, New York, N. Y. Filed June 9, 1927. Serial No. 197,694. 7 Claims. (Cl. 45—17.)



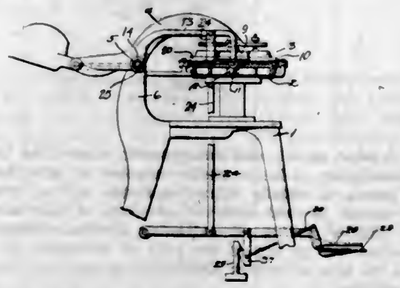
2. In a service table, a base, a top, means to support the top for movement toward and from the base, and a series of telescopic article carriers having sliding connection with the underside of said top.

1,679,018. GAS-TIGHT SEAL FOR RELATIVELY-MOVING PARTS OF OVENS. FRIEDRICH BARTLING, Munich, Germany. Filed May 16, 1927, Serial No. 191,913, and in Germany Jan. 15, 1927. 4 Claims. (Cl. 263—28.)



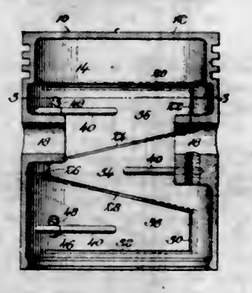
1. A gas tight closure or seal for interposition between relatively movable members of ovens and the like, comprising a sand channel mounted on one of said members, the walls of said channel converging toward each other at the top so the channel has a substantially pear-shaped cross-section, sand in said channel, and a web connected to the other member and dipping into the sand, so that during relative movements of said web and channel at a right angle to the direction of the relative movement of the members, the converging walls of the channel prevent the web from forcing sand from the channel.

1,679,019. PRESSING MACHINE. PHILIP N. BRAUN, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Oct. 13, 1925. Serial No. 62,258. 13 Claims. (Cl. 68—9.)



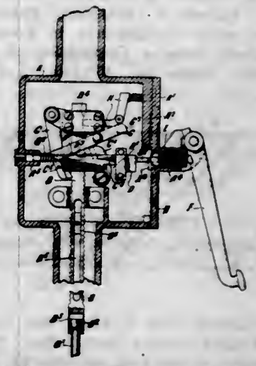
1. In a pressing machine, the combination of a buck, a head mounted to move toward and from the buck, an intermediate member mounted to coact with the buck to hold a garment thereon, the intermediate member being movably relatively to the buck and the head and means for detachably coupling said intermediate member to the head.

1,679,020. PISTON. GEORGE F. BRENT, Eugene, Oreg. Filed Aug. 6, 1926. Serial No. 127,604. 3 Claims. (Cl. 74—108.)



1. A piston including a skirt slotted to produce a flexible tongue, a split rib formed on the inner face of said skirt partly on said rib and partly on the body portion proper of the skirt, and screw means between adjacent edges of said rib formed by said split operable to spread the two portions of said rib with respect to one another thereby to adjust said tongue outwardly with respect to the axis of the skirt.

1,679,021. PETROL AND OTHER MEASURED-QUANTITY DELIVERY PUMP. WILLIAM EDWARD BRYAN, Kegworth, Derby, England, assignor to Slack & Parr Limited, Kegworth, Derby, England. Filed Mar. 25, 1927, Serial No. 178,379, and in Great Britain Nov. 3, 1926. 7 Claims. (Cl. 194—60.)



1. Apparatus for controlling the operation of petrol and other measuring quantity delivery pumps, comprising a casing attached to the pump frame, bearings in the casing suitable for carrying a slide, a slide carried on such bearings, coin freed means for traversing such slide, two oppositely directed pawls fulcrumed in the casing, abutments on the slide located so as to engage the said pawls, a rack having oppositely directed teeth located between the pawls, lost motion means connecting the rack to the pump permitting the said pump to operate only after the lost motion is taken up, means on the slide for rocking both pawls to engage one pawl or the other pawl with the rack when the slide is traversed, means to return the slide to its initial position when released, means on the slide to hold it at the end of its traverse, means on the rack to release the slide when the said rack has arrived at the end of its stroke, thereby reversing the pawls and permitting the rack to return to its initial position and the pumps to be ready to commence a new measuring operation.

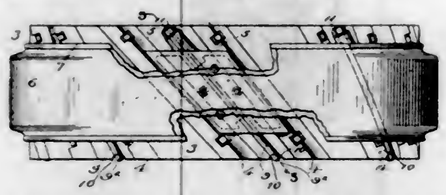
1,679,022. CUTTER. OTTO H. CALDWELL, Houston, Tex. Filed Oct. 3, 1927. Serial No. 223,613. 6 Claims. (Cl. 30—17.)



1. An implement of the character described including confronting blades connected together and having pivoted

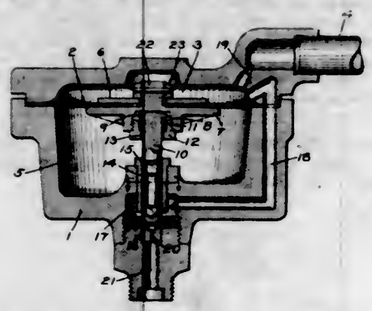
movement relative to each other, said blades having confronting cutting edges, at one end and whose other ends are extended, forming shanks, a jaw having an extended arm to which one of said shanks is pivoted, an interiorly threaded sleeve pivoted to said arm, a shaft threaded through said sleeve and connected to the other shank, and handles, one connected to said shaft, and the other connected to said jaw.

1,679,023. TIRE MOUNTING FOR TRACTION WHEELS. ERNEST E. EINFELDT, Davenport, Iowa, assignor, by mesne assignments, to French & Hecht, Inc., Davenport, Iowa, a Corporation of Iowa. Filed Jan. 4, 1927. Serial No. 158,740. 5 Claims. (Cl. 301—39.)



5. In combination with a wheel rim, traction cleats thereon converging toward each other to form side wedging surfaces, a tire ring surrounding said rim and covering the traction cleats, wedging members on the tire ring formed with converging sides to cooperate with the side wedging surfaces of the traction cleats in wedging the tire ring on the rim, fastening bolts carried by the wedging members and engaged at one end with the edge of the rim at that side, and nuts on the opposite ends of the bolts engaging the wedging members at that side.

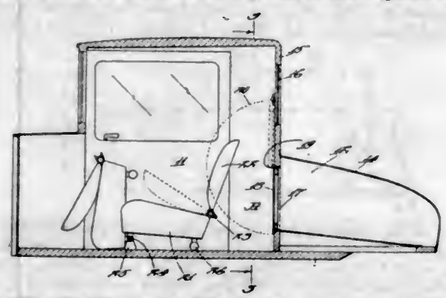
1,679,024. SIGNAL-VALVE DEVICE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Dec. 21, 1926. Serial No. 156,139. 7 Claims. (Cl. 116—55.)



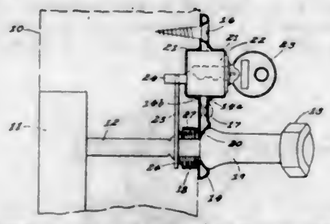
2. A signal valve device comprising a casing, a flexible diaphragm in said casing, a diaphragm plate carried by said diaphragm and having a chamber, a valve, a valve stem for said valve provided with a head mounted in said chamber, means for holding said head in said chamber and adapted to permit movement of the head and stem relative to the diaphragm, and means in said casing for guiding said valve stem for axial movement.

1,679,025. BODY FOR AUTOMOBILES. STEPHEN I. FEKETE and MILLARD H. TONCRAY, Detroit, Mich., assignors to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 2, 1925. Serial No. 97. 2 Claims. (Cl. 296—24.)

1. A coupé body for automobiles having a driver's compartment and a rear deck compartment constituting the entire rear portion of the body and permanently closed to the outside, a door controlling communication between the driver's compartment and rear deck compartment, and a seat in said driver's compartment spaced forwardly of said door and having a portion movable out of the path of movement of said door in opening and closing.

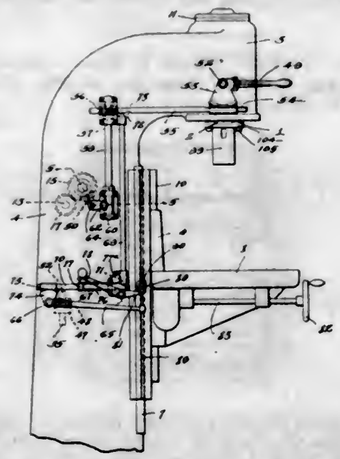


1,679,026. LATCH SPINDLE AND LOCK ASSEMBLY. STEPHEN I. FEKETE, Detroit, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 26, 1926. Serial No. 83,963. 2 Claims. (Cl. 70—29.)



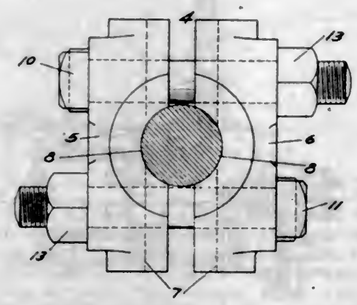
1. A latch spindle and lock assembly comprising an escutcheon plate, a latch spindle mounted to turn therein and having a radially extending finger, and a cylinder lock carried by said plate at one side of said spindle, said cylinder having an extending portion adapted to be moved into or out of the path of movement of said finger to lock or unlock said latch spindle by turning the cylinder.

1,679,027. DRILLING MACHINE. CARL GABRIELSON and ALEXANDER MELDRUM, Syracuse, N. Y. Filed June 16, 1925. Serial No. 37,500. 6 Claims. (Cl. 77—5.)



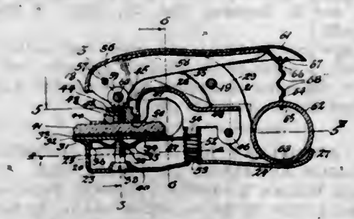
1. In a machine tool, the combination of a rotatable tool spindle, a work carriage movable toward and from the spindle, mechanism for actuating the spindle and the carriage, comprising a shiftable member for controlling the actuation of the spindle and a second shiftable member for controlling the actuation of the carriage, means for operating said members, and an interlocking connection between the operating means for said members to prevent the shifting of the second member into operative position when the first member is out of its operative position, substantially as and for the purpose described.

1,679,028. POLISHED ROD CLAMP. CHARLES E. GALLMAN, Tulsa, Okla., assignor to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 11, 1926. Serial No. 108,281. 2 Claims. (Cl. 24—243.)



1. A polished rod clamp including two similar separable clamp members and having two polished rod receiving openings extending centrally therethrough, one opening being disposed at right angles with and bisecting the other, and means for securing the clamp members together including two pairs of horizontally extending bolts passed through openings in the clamp members, each bolt having an adjusting nut thereon with the nuts of each pair located on opposite sides of the clamp.

1,679,029. SEAL PRESS. CALDER C. GIBSON, Buffalo, N. Y. Filed Sept. 4, 1925. Serial No. 54,424. 12 Claims. (Cl. 101—3.)



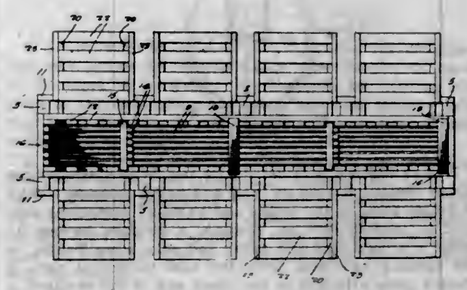
1. A seal press having a frame provided with a base and an arm projecting from the rear part of said base upwardly and forwardly, said base having a horizontal bottom and a wall rising from the edge of the base and said arm having two sections rising from the rear parts of the wall of said base, the front part of said base being wide and of circular form and the rear part of the same being comparatively narrow, and the front part of said wall being of cylindrical form and the rear parts thereof substantially parallel, and each of said arm sections having an outwardly offset front web which is arranged in the same plane as the rear wall part on the corresponding side of the base and an inwardly offset rear web which is arranged inwardly from the companion front web and a cheek arranged at the front ends of said webs and offset outwardly from both of said webs.

1,679,030. SPRING-PAD CONSTRUCTION. LOUIS S. HALLOWELL, Syracuse, N. Y., assignor to The Presperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Feb. 20, 1926. Serial No. 89,785. 6 Claims. (Cl. 68—9.)



1. A spring pad comprising upper and lower plates, a base member resting on the lower plate and formed with holes therein which holes constitute sockets and coiled springs seated in the sockets and resting at their lower ends on the base plate, the springs projecting above the base member, the top plate resting on the upper ends of the springs.

1,679,031. VEGETABLE AND FRUIT DISPLAY APPARATUS. JAMES THOS. HENLEY, Inverness, Miss. Filed Jan. 12, 1927. Serial No. 160,657. 4 Claims. (Cl. 211—126.)

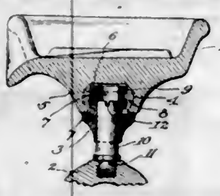


4. A device of the class described including a plurality of legs arranged in pairs, the lengths of the legs of the pairs gradually increasing from the front end of the device to the rear end thereof, inclined side rails fixed to the legs and extending longitudinally of the device, two side rails on each side of the device being disposed in parallel spaced relation to each other, brace rails on the outer sides of the legs, said brace rails being disposed substantially alongside the lower side rails and below the upper side rails, a plurality of trays each comprising supporting bars having notches in which the respective brace rail is disposed, the extremities of the supporting bars being disposed between the side rails, the supporting bars having their upper edges cut away, rails disposed on the cut away portion, a plurality of pickets attached to the side rails to extend vertically, said pickets being disposed in spaced relation to one another, a plurality of partitions each including a plurality of pickets attached to a pair of cross pieces, the ends of which are disposed between the pickets of the side rails, and cross pieces between the legs of each pair, longitudinally extending rails supported on the cross pieces to form an inclined bottom on which the partitions rest.

1,679,032. SOAP-DISH SUPPORT. OTTO G. HITCHCOCK, Erie, Pa., assignor to Hays Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed June 3, 1925. Serial No. 34,749. 1 Claim. (Cl. 45—28.)

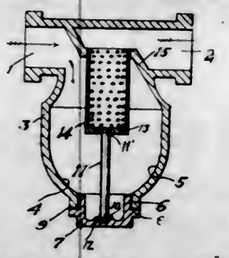
The combination with a soap dish and a socket member secured in a recess in the underside thereof, said socket member having a tapered opening therethrough, of an up-

standing plug fixed to a support and tapered to correspond with the taper of said socket member opening, whereby to enter and engage said socket member, the weight of the



dish maintaining the socket member in light frictional engagement with the plug, ready for instantaneous removal of the dish.

1,679,033. STRAINER. FREDERICK M. HOLMES, Springfield, Mass., assignor to Tryco Products, Inc., Westfield, Mass., a Corporation of Massachusetts. Filed Nov. 5, 1923. Serial No. 672,803. 3 Claims. (Cl. 210—165.)

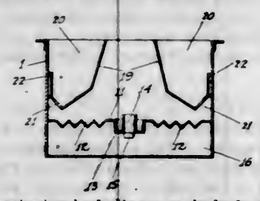


1. A cylindrical strainer device for fluids comprising a casing member having an inlet and outlet passage, a wall or bridge piece in the casing and having a horizontal part that is formed with an opening, a strainer having its upper end open and said upper end only being located in the opening and flush with the said horizontal part, a closure plate attached to the lower end of the strainer, a closure cap for the lower end of the casing, a rod secured to the cap and to the said plate on the lower end of the strainer at its upper end for removing the strainer when the cap is removed, the construction and arrangement being such that the incoming fluid passes from the outside through the openings in the side of the strainer to the inside of the strainer and to the open outer end of the strainer and outlet passage whereby the entire outer surface of the strainer is thereby utilized.

1,679,034. STENCIL SHEET. SHINJIRO HORII, Tokyo, Japan. Filed Dec. 17, 1927. Serial No. 240,940. 5 Claims. (Cl. 41—38.6.)

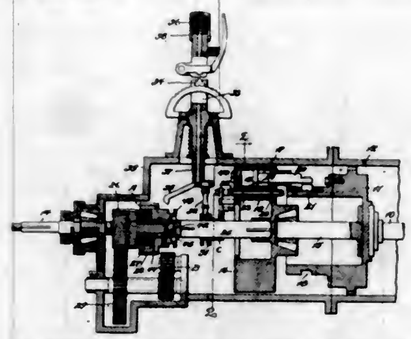
1. A stencil sheet adapted for stencilizing by pressure, consisting of a base of fibrous material including esters of polysaccharides and squalene.

1,679,035. CONCENTRATOR. WILLIAM A. HUELSDONK, Merced Falls, Calif. Filed Aug. 16, 1926. Serial No. 129,310. 5 Claims. (Cl. 209—441.)



1. A concentrator including a main body member, a floor in said member having longitudinally extending riffle grooves therein, a chamber at the rear end of the member and into which the grooves lead, means for discharging water and the material to be treated onto and from said floor in a manner to cause a flow of water and material to take place across the riffles whereby precious metal particles in said material will be caught and deposited in the riffles, means for shaking said member longitudinally to cause said particles to advance along the grooves toward and into the chamber, and means for maintaining a supply of water in the chamber at a level higher than that of the grooves whereby to set up a forward flow of water along the grooves from the chamber into the member ahead of said chamber.

1,679,036. TRANSMISSION. SAMUEL C. IGOU, St. Louis, Mo. Filed Oct. 6, 1924. Serial No. 741,933. 2 Claims. (Cl. 192—59.)

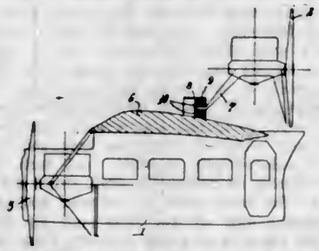


1. A transmission comprising a driving shaft, a driven shaft, a block connected for rotating the driven shaft, a dash-pot carried by the block, a stress bar bearing a piston operating in the dash-pot, an element connected for rotation by the driving shaft, cams carried by said element for the movements of said stress bar, ports for said dash-pot, a tubular valve having ports of greater lengths than the ports of the dash-pot, and means for operating the tubular valve.

1,679,037. BOILER COMPOSITION AND METHOD OF MAKING SAME. HANS KARPLUS, Frankfort-on-the-Main, and WILHELM BACHMANN, Seelze, near Hanover, Germany, assignors to Firm E. de Haen A.-G., Seelze, near Hanover, Germany. Filed May 8, 1926, Serial No. 107,825, and in Germany Nov. 20, 1922. 3 Claims. (Cl. 87—27.)

1. As a new product for use as a boiler composition and disincrustant, a mixture of colloidal graphite and sulphite liquor, the colloidal graphite present in the mixture being aprpoximately one-sixth by weight.

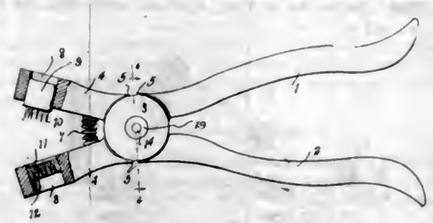
1,679,038. AEROPLANE WITH THREE CENTERS OF PROPULSION ARRANGED IN A TRIANGLE. SYTSE FREDERICK WILLEM KOOLHOVEN, Rijswijk, Netherlands. Filed Mar. 4, 1926, Serial No. 92,294, and in the Netherlands Sept. 5, 1924. 1 Claim. (Cl. 244—14.)



A monoplane comprising a body, a single wing positioned at the upper side of the body, and only three centers of propulsion arranged in a triangle, one of said

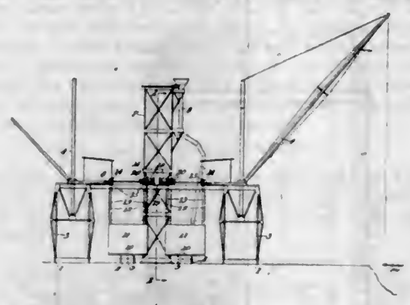
centers of propulsion only, interposed between the other two centers of propulsion, being located above the body of the aeroplane above and behind the wing, the other two centers of propulsion being located underneath, and in front of the wing one on each side of the body, the propeller corresponding to said first center of propulsion being made and arranged in such a way that in normal flying position the area, bounded by the circle of rotation of the said propeller is not more than 30% overlapped by the vertical projection of the body .

1,679,039. TOOL. GEORGE KUCERA, Grand Island, Nebr. Filed May 27, 1927. Serial No. 194,810. 1 Claim. (Cl. 164—120.)



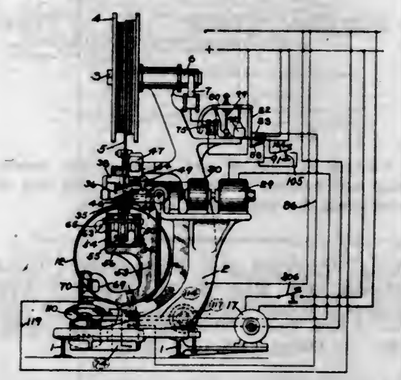
A tool of the plier type comprising handle members, circular hinging elements formed integral with the handle members, jaws integral with and projecting from the hinging elements out of alinement with the handle members, dies carried by the free ends of the jaws, a pivot inserted centrally through the jaws, and a nut engaged with the pivot and retaining it in the hinging elements, one of said hinging elements being provided on its inner face with a circular outwardly tapered rib concentric with the pivot opening and the other hinging element being constructed with a central boss seating within said rib, and an annular groove receiving the rib, the retaining nut being tapered and seating in a tapered recess in the outer face of the first-mentioned hinging element.

1,679,040. CONCRETE-BUILDING CONSTRUCTION. SIMON LAKE, Milford, Conn. Filed Sept. 10, 1920. Serial No. 409,370. 4 Claims. (Cl. 25—131.)



1. In concrete building construction, a truck adapted to movably support a preformed concrete floor structure, forms adapted to be assembled upon said floor structure to form wall molds, a tower provided with means for receiving concrete mix, chutes running from said means to said forms for supplying the mix thereto, and hoisting means for raising said forms out of contact with said floor structure to permit of said truck with the floor structure and the walls formed thereon being moved from beneath said forms or said forms to be moved from over said poured structure.

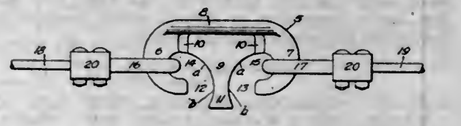
1,679,041. ELECTRIC WELDING MACHINE. JAMES A. LEEPER, Wilkinsburg, and ROBERT J. STRONG, Oakmont, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Nov. 23, 1925. Serial No. 70,745. 18 Claims. (Cl. 219—6.)



1. In an electric seam welding machine, the combination with means for feeding a metal electrode to the seam of the work to be welded, of feed rolls for feeding the work to the electrode, an electric motor for driving said feed rolls, and means for automatically energising said motor upon energisation of said electrode.

4. In an electric seam welding machine, the combination with means for electrically welding the seam of the work to be welded, of means for automatically feeding the work as the seam is welded, mechanism for shifting the work out of the line of feed, and means operated upon cessation of flow of welding current for operating said mechanism.

1,679,042. LINK. JOHN D. LEMEX, Tulsa, Okla. Filed Nov. 8, 1927. Serial No. 231,861. 5 Claims. (Cl. 230—5.)

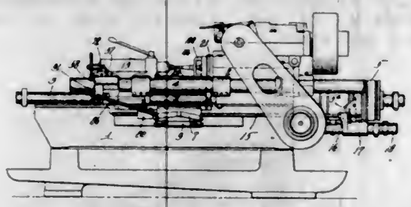


1. A link comprising a body provided with hook end portions and a member interposed between the said portions and forming therewith spaced apart openings, said member having a relatively wide portion adjacent the body and a relatively narrow portion projected beyond the free ends of the hook portions to form with said portions entering and exit slots disposed at an angle with the said openings and formed with curved engaging faces to facilitate the application and removal of looped members.

1,679,043. AUXILIARY GROOVING OR FACING ATTACHMENT FOR FAY LATHES. JOHN E. LOVELY, Springfield, Vt., assignor to Jones & Lamson Machine Company, Springfield, Vt., a Corporation of Vermont Filed Mar. 21, 1924. Serial No. 700,819. 10 Claims. (Cl. 82—2.)

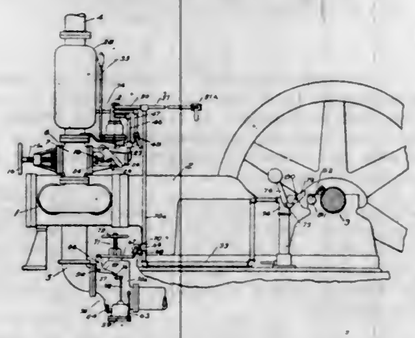
1. The combination with a lathe having a headstock and a tailstock, a rockable and axially movable tool bar, and a cam drum having cam means for controlling the

axial position of said tool bar, of an auxiliary tool bar journaled for rocking movement in one of said stocks, a cam carrier slidable on said first mentioned tool bar, a



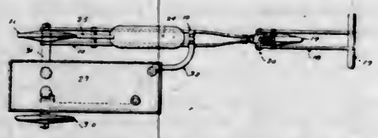
cam follower carried by said auxiliary bar, means for holding said follower against said cam, and cam means on said drum for sliding said cam carrier.

1,679,044. CONTROLLING MECHANISM. OSCAR H. LUDEMAN, Glen Ridge, N. J., assignor to Ludeman Brothers, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 26, 1925. Serial No. 4,881. 13 Claims. (Cl. 137—139.)



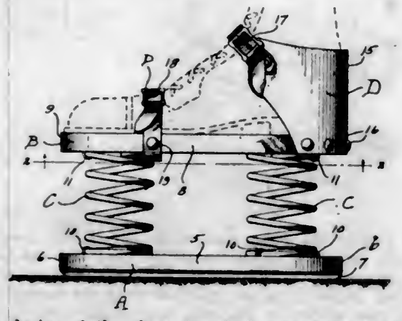
1. In a controlling mechanism, the combination of a steam engine; a steam supply passage leading to the engine; an inlet closure valve in the passage; closing mechanism for said valve; water and speed sensitive devices controlling said mechanism; and water level sensitive means responsive to exhaust water accumulations controlling said water sensitive device.

1,679,045. COMBINED SCOOTER, SIDE CAR, AND WAGON. ROY J. MANDERY, Lincoln, Nebr. Filed Aug. 18, 1925. Serial No. 50,987. 1 Claim. (Cl. 280—87.5.)



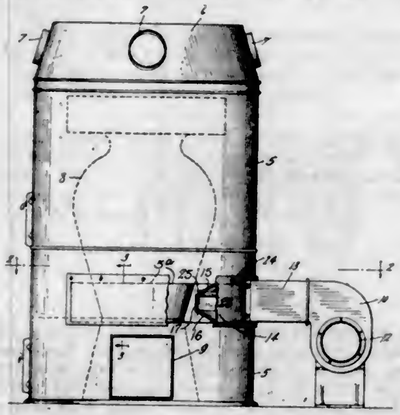
A scooter having a narrow elongated frame consisting of a pair of spaced apart beams, said beams being horizontally positioned and parallel throughout the major portion thereof and being converging and upwardly and forwardly inclined in their forward portions, a front wheel support pivotally secured to said beams at their forward extremities, said wheel support being forked and having a supporting wheel journalled therein, a handle member pivotally secured to said wheel support at the upper extremity thereof, means for releasably latching said handle member in substantially vertical position, a foot rest secured to said beams, a rear supporting wheel journalled to said beams at the rear extremities thereof, and a side car for said scooter, said side car including a box, an axle secured to said box and projecting beyond both sides thereof, said axle being adapted to be passed through the hub of said rear supporting wheel of said scooter, a supporting wheel journalled on said axle at the outer extremity thereof, and a reinforcing member on the under side of said box and extending forwardly from said axle and then inwardly and having a clip member adapted to straddle both of said beams forward of said foot rest to be releasably secured to said beams.

1,679,046. SPRING-SHOE AMUSEMENT DEVICE. ELMER MENEFEE, Zanesville, Ohio, assignor of one-half to Allen Henry Stanley, Zanesville, Ohio. Filed Mar. 2, 1926. Serial No. 91,794. 1 Claim. (Cl. 272—70.)



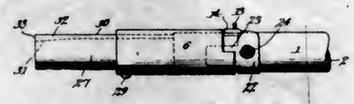
A device of the class described comprising a pair of superposed plates, the uppermost plate being provided with parallel side walls and arcuate end walls of equal radius, coil springs disposed between the plates and disposed equi-distant inwardly from each end of the plates, a flexible heel counter detachably connected at its lower portion with one arcuate end wall of the upper plate and interchangeable to the opposite arcuate end wall, an adjustable ankle strap carried by the heel counter, and a toe strap extending transversely beneath the upper plate and secured to the side walls thereof.

1,679,047. AIR CIRCULATOR FOR FURNACES. RUDOLPH W. MENK, Joliet, Ill. Filed Aug. 13, 1926. Serial No. 128,993. 11 Claims. (Cl. 126—99.)



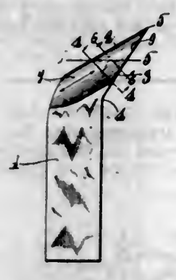
1. An air circulator for furnaces comprising a segmental shaped walled passageway formed with an outer wall, upper and lower walls extended inwardly from said outer wall, the upper wall being of less width than the lower wall, and an inner wall projecting from the inner edge of the lower wall the upper edge of which terminates adjacent and spaced from the inner edge of the upper wall whereby to provide a discharge outlet in the upper portion of the structure.

1,679,048. DETACHABLE CHOKE PIECE. RANSE WRIGHT MILLER, Dublin, Ga. Filed Feb. 4, 1927. Serial No. 165,967. 8 Claims. (Cl. 42—79.)



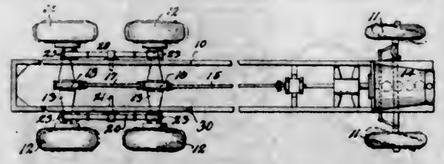
2. In combination, a shot-gun barrel, a sleeve slidable onto the end of the barrel, coacting means on the barrel and sleeve for preventing relative longitudinal movement of the sleeve and barrel, and means coacting with the first-named means to prevent rotative movement of the sleeve relative to the barrel.

1,679,049. CUTTING TOOL. SVEN T. NELSON, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 5, 1922. Serial No. 549,858. 8 Claims. (Cl. 262—33.)



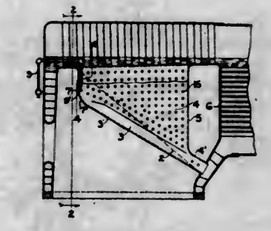
1. As an article of manufacture, a coal mining machine cutter bit comprising a single homogeneous piece of material affording a shank terminating in a cutting portion having a cutting face, the material supporting said face presenting bounding surfaces whose traces on a plane parallel to the path of instantaneous travel of the bit but perpendicular to its plane of instantaneous movement recede from one or the other of two parallel lines lying in said first mentioned plane and passing adjacent the sides of the cutting face, and also having traces, at least a portion of which are the same, on any two planes having the same relation with respect to said surfaces, said surfaces being symmetrically disposed with respect to the longitudinal axis of said shank.

1,679,050. SPRING SUSPENSION FOR MOTOR VEHICLES. LEWIS NEWMAN, Cleveland, Ohio. Filed Feb. 16, 1927. Serial No. 168,593. 7 Claims. (Cl. 280—106.5.)



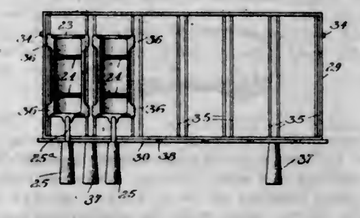
1. A spring suspension including a supporting frame, a spring member pivoted thereon for movement in a vertical plane, and dual axles pivotally connected at the free ends of said spring and both being free for transverse movement toward and from each other caused by expansion of said spring.

1,679,051. THERMIC SIPHON FOR LOCOMOTIVES. JOHN L. NICHOLSON, Chicago, Ill., assignor to Locomotive Firebox Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 21, 1922. Serial No. 538,411. 9 Claims. (Cl. 122—68.)



1. A thermic siphon having an angularly disposed bottom portion and a substantially upright front end, the rear end of said siphon being truncated to extend substantially parallel with said front end and merging into said angularly disposed bottom portion in a curve of a desired radius.

1,679,052. APPARATUS FOR BAKING FOOD PRODUCTS. GEORGE E. PAGE, Rochester, N. Y., assignor, by mesne assignments, to Paul S. Paulson, Rochester, N. Y. Filed Oct. 7, 1924. Serial No. 742,221. 6 Claims. (Cl. 107—56.)



6. In combination, a stove having a heating compartment, spaced supports mounted therein, a frame within the compartment comprising front and rear plates connected by side members slidably disposed upon the supports, a plurality of sets of rods extending between the front and rear plates and cooking utensils depending between the several sets of rods and having projecting portions resting upon the rods whereby the utensils are suspended within the frame.

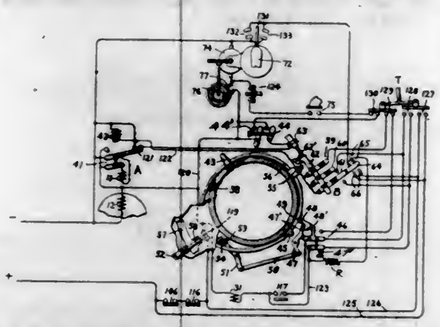
1,679,053. 1-ALKOXYMETHYL-3.7-DIMETHYLXANTHINES. KARL SCHRANZ, Elberfeld, and CLEMENS LUTTER, Barmen-Langenfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Filed Feb. 19, 1926. Serial No. 89,413, and in Germany May 23, 1925. 4 Claims. (Cl. 260—34.)

1. The process of producing 1-alkoxymethyl-3.7-dimethylxanthines, which process consists in treating a theobromine salt with chloroalkylether having most probably the formula: $ClCH_2—OR$, R standing for an alkyl group containing two or more carbon atoms, substantially as described.

1,679,054. AUTOMATIC PHONOGRAPH. FRANK J. SEABOLT, Schenectady, N. Y., assignor, by direct and meane assignments, to The Phonograph Company, a Corporation of Delaware. Filed Nov. 12, 1921, Serial No. 514,448. Renewed Sept. 8, 1925. 4 Claims. (Cl. 274—15.)

1. The combination with an electrically driven phonograph motor of means for reversing the same, a turntable and a tone arm provided with a needle, mechanism for

lifting the needle and returning the tone arm, and connections between the motor, the phonograph table and said mechanism whereby when the motor runs in one



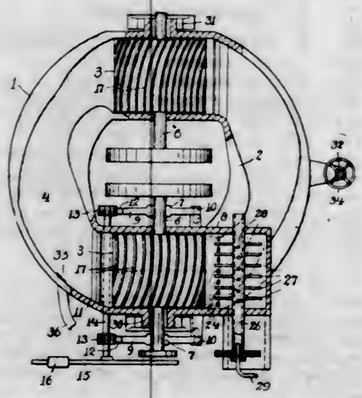
direction it drives the table but not the mechanism and when it is driven in the opposite direction it drives the mechanism but not the table.

1,679,055. CRYSTALLIZATION APPARATUS. WALTER SEIDEL, Leverkusen, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed May 16, 1927, Serial No. 191,860, and in Germany June 29, 1926. 4 Claims. (Cl. 23—273.)



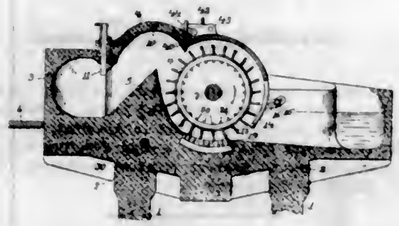
1. Crystallization apparatus, comprising a vessel adapted to have a rocking movement imparted thereto, means dividing said vessel into two lateral chambers, said means being disposed so as to permit drainage of substantially all the liquid from the higher chamber to the lower chamber in each extreme rocked position of the vessel and to prevent the movement of the bulk of the crystals from one chamber to the other.

1,679,056. BEATING ENGINE. LEO SHLICK, Montreal, Quebec, Canada. Filed Feb. 17, 1921. Serial No. 445,737. 25 Claims. (Cl. 92—24.)



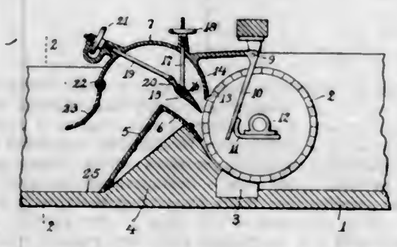
1. A beating engine comprising a tub, a midfeather, a bed-plate, a beater roll having a supporting shaft, levers each pivotally supported at one end of each and having a rack at its other end, a shaft having pinions meshing with said racks, and a weighted lever rigid with the last-named shaft, whereby the pressure of the said roll upon the bed-plate can be varied at will.

1,679,057. BEATING ENGINE. LEO SHLICK, Boston, Mass. Filed Jan. 19, 1927. Serial No. 162,191. 9 Claims. (Cl. 92—24.)



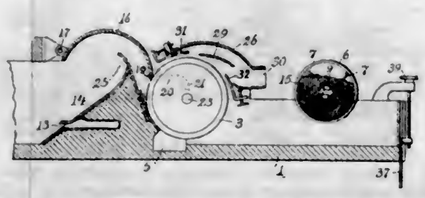
1. A beating engine comprising a tub having a midfeather, a beater roll, a bed-plate and a back-fall, the back-fall rising to a point above the level of the axis of the beater roll, a hood located above the back-fall, and a gate depending from said hood to a point below the level of the crest of the back-fall.

1,679,058. BEATING ENGINE. LEO SHLICK, Boston, Mass. Original application filed Feb. 17, 1921, Serial No. 445,736. Divided and this application filed Feb. 1, 1927. Serial No. 165,250. 13 Claims. (Cl. 92—24.)



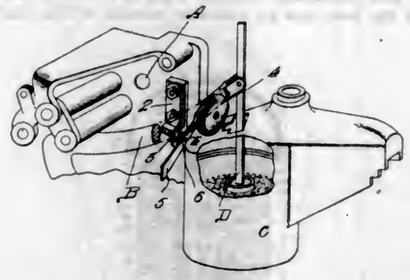
1. A beating engine comprising a tub, a beater roll, a back-fall, a hood located above the back-fall, and a deflector located between the back-fall and hood for dividing the stock into upper and lower streams as it issues from the beater roll.

1,679,059. BEATING ENGINE. LEO SHLICK, Boston, Mass. Original application filed Feb. 17, 1921, Serial No. 445,736. Divided and this application filed Feb. 1, 1927. Serial No. 165,251. 22 Claims. (Cl. 92—24.)



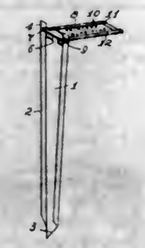
1. A beating engine comprising a beater, roll, bed-plate, back-fall, and means for separating part of the stock from that approaching the beater roll, and delivering it beyond the back-fall.

1,679,060. LOW-LEVEL SIGNAL. EDMUND B. SIBSON, Pasco, Wash. Filed Sept. 20, 1926. Serial No. 136,607. 4 Claims. (Cl. 22—70.)



4. In combination with a metal pot and pump having a pump arm, a bell arm pivotally supported intermediate its ends and having a tapper on one end thereof, the opposite end being adapted to be brought into the path of said pump arm when the metal in the pot has been lowered to a predetermined level.

1,679,061. PLANT MARKER. TROY D. SMEDLEY, Waterloo, Iowa. Filed Aug. 12, 1927. Serial No. 212,474. 3 Claims. (Cl. 40—10.)



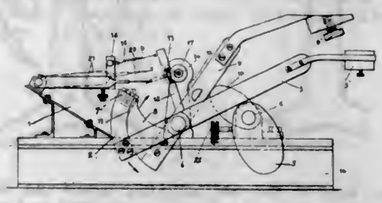
1. A device of the character described, comprising a stake diminished downwardly and having longitudinal edge flanges, and a flap hinged inclinedly to and between the upper parts of said flanges to swing vertically and wide enough to span and ride upon said flanges in an inclined position relative to the stake, said flap having card holding means on its under inclined face.

1,679,062. DISHWASHER. GEORGE SMITH, Mullen, Nebr., assignor to Alice B. Payne. Filed Mar. 23, 1927. Serial No. 177,738. 3 Claims. (Cl. 141—9.)



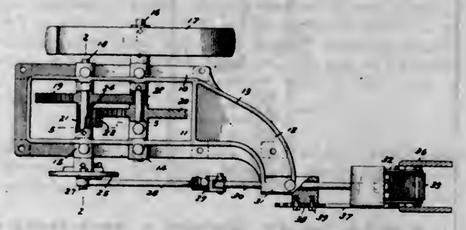
1. In a dish washer, the combination with a cabinet and a partition therein forming upper and lower compartments and depressed intermediate its longitudinal edges, of a supplemental partition secured to the before mentioned partition and having its medial portion raised to provide adjacent troughs, a slosh wheel for each of the troughs and means for imparting a reverse rotation to the slosh wheels.

1,679,063. MACHINE FOR SLOTTING THE HEADS OF SCREWS AND THE LIKE. EDWIN SPENGLER, Pontoise, France. Filed Sept. 8, 1925, Serial No. 55,091, and in France Sept. 12, 1924. 7 Claims. (Cl. 10—5.)



1. A machine for slotting the heads of screws comprising a charger, said charger containing in haphazard order a store of screws to be worked, a feeding arm reciprocable in a vertical plane, said arm being adapted to move in said charger among the mass of screws a conveying arm reciprocable in a vertical plane, said conveying arm being adapted to receive the screws in turn from said feeding arm, a movable member having a positioning orifice, a slot-cutting tool, said conveying arm being adapted to place the screws by their heads in said positioning orifice in order to bring them into contact with said tool.

1,679,064. SAMPLING APPARATUS. SAMUEL E. STEPHENSON, Atlanta, Ga. Filed Mar. 26, 1927. Serial No. 178,802. 4 Claims. (Cl. 73—21.)

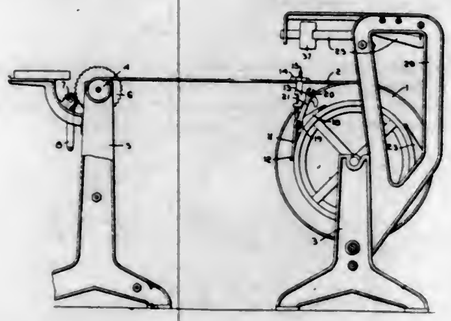


1. In a machine of the character described, a bed having a lateral offset guide arm, a reciprocating plunger working in the arm, a bucket eccentrically pivoted with the outer end of the plunger for dumping action, means on the arm for controlling the period of dumping of said bucket, and means supported by the bed for intermittently moving the plunger.

1,679,065. FILLET DRUM AND STAND. HENRY J. STEVENSON, North Andover, Mass., assignor to Davis & Furber Machine Co., North Andover, Mass., a Corporation of Massachusetts. Filed Apr. 1, 1926. Serial No. 98,957. 4 Claims. (Cl. 265—24.)

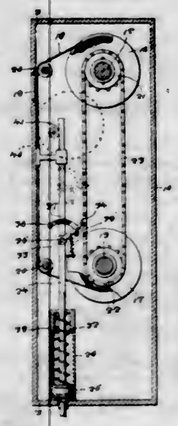
1. An apparatus for applying fillet material under tension to a roll comprising a support for the roll, means mounted upon the support adapted to rotate the roll, a fillet drum upon which is wound fillet material and from which it is unwound by the rotation of the roll, a friction drum rigid with the fillet drum, a friction band surrounding the friction drum, means for varying the

frictional pressure between the friction band and the friction drum, indicating means and a compression member adapted to transmit the force tending to rotate the



friction band to the said indicating means and thereby cause it to indicate the tension in the fillet material as it is wound on the roll.

1,679,066. STATION INDICATOR. FRANK STUMP and ARTHUR A. JOHNSTON, Morgantown, W. Va. Filed Apr. 2, 1926. Serial No. 99,360. 3 Claims. (Cl. 40—87.)



1. A station indicator comprising a casing having a sight opening therein, spaced rolls, an indicator strip having indicia thereon and adapted to be wound upon the rolls behind the sight opening, a chain and sprocket drive for the rolls, a longitudinally movable rod, normally disengaged pivotally mounted means carried by the rod and engageable with the sprocket chain when the rod is moved in one direction to drive said chain and rotate the rolls, means to actuate the rod, a stop located in the path of the chain engaging means to hold the latter disengaged from said chain when the rod is in normal position, a spring to move the chain engaging means into active position and means to limit pivotal movement of the chain engaging means when the latter is in active position.

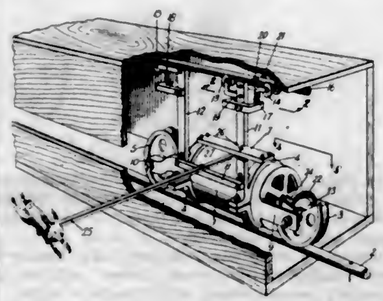
1,679,067. ELECTRICAL CONNECTER. ALBENUS B. WISEMAN, Grand Rapids, Mich. Filed Sept. 12, 1925. Serial No. 56,011. 4 Claims. (Cl. 173—328.)

1. An electrical connecter comprising a socket, and a plug, the socket including a body of insulating material having a bore to receive the plug, said bore having open sided recesses in its wall, a plurality of contacts supported by the body and arranged within the recesses, a plurality of contacts upon the plug for engagement with the first mentioned contacts when the plug is inserted into the bore, and an insulator movable within the bore



and normally occupying a position for closing the open sides of the recesses for shielding the first mentioned contacts and displaceable by the plug upon its insertion into the bore, said plug and insulator having intimate sliding engagement with the wall of the bore.

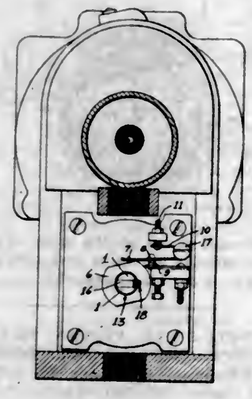
1,679,068. ELECTRIC CAR. JAMES B. ALLEN, Shidler, Okla., and ERNEST O. HAMILTON, Columbus, Ohio. Filed Jan. 15, 1927. Serial No. 161,450. 1 Claim. (Cl. 105—147.)



In animal racing apparatus, a lure conveyer constructed to travel on a single rail comprising a suitable frame and carrier wheels, a motor mounted on said frame and operatively connected to the carrier wheels by gearing, a rail for carrying the lure conveyer, a rigid electrically-energized overhead member, a spring-pressed means mounted on said conveyer that cooperates with said rigid overhead member to hold said lure conveyer on said track and provide a means for transmitting electric current from said overhead member to said motor, an outwardly extending arm carried by said conveyer and a lure mounted thereon.

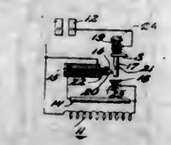
1,679,069. MAGNETO-ELECTRIC MACHINE. AVERY E. BROWN, Pittsfield, Mass., assignor to Berkshire Magneto Co., Pittsfield, Mass., a Corporation of Massachusetts. Filed Jan. 19, 1920. Serial No. 352,498. 7 Claims. (Cl. 200—30.)

1. In a machine of the class described a current interrupter-member, and an actuating member engageable with said current-interrupter member by metal-to-metal contact, one of said members being movable relatively to the other, to obtain current interrupting actuation of said current-interrupter member, one of said members being electrically insulated from other parts of the machine



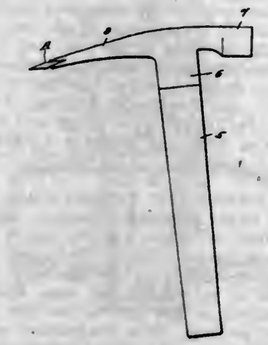
which are in electrical connection with the other of said members, and a connection between said other member and the ground.

1,679,070. THERMOSTATIC DEVICE. JOHN L. BROWN, Catonsville, Md. Filed July 14, 1925. Serial No. 43,587. 2 Claims. (Cl. 219—25.)



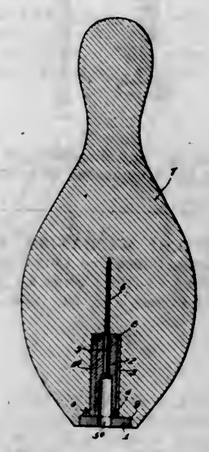
1. A device of the class described comprising an electric circuit including an element, solid in form which is substantially non-conductive at room temperatures and which is conductive at elevated temperatures, said element maintaining its solid form at all temperatures, a translating device and a source of electrical energy in said circuit, said translating device being constructed to respond to a flow of current corresponding to a predetermined elevated temperature of said element.

1,679,071. BRICK HAMMER. JAMES CAMPBELL, Montrose, Calif. Filed July 8, 1926. Serial No. 120,335. 1 Claim. (Cl. 306—42.)



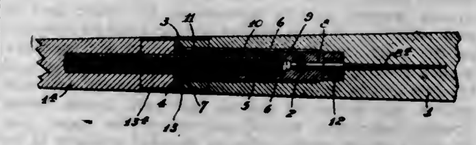
In combination, a hammer provided with a blade, the end of the blade being provided with a V-shaped pocket, the V-shaped pocket bifurcating the end of the blade, the furcations being provided with V-shaped notches, and an auxiliary blade having a pair of wedge-shaped terminals and a wedge-shaped block extending laterally from one of the terminals, said one of the terminals being receivable in the pocket and the block being receivable in one of the notches the V-shaped formation of the pocket and the notches and the wedge shaped formation of the terminals and the block being the sole means for retaining the auxiliary blade in the end of the first mentioned blade.

1,679,072. BOWLING PIN. JOHN R. CARMICHAEL, Dormont, Pa. Filed Aug. 16, 1927. Serial No. 213,251. 8 Claims. (Cl. 273—82.)



1. The combination with a bowling pin, of a shoe member disposed in the base thereof, comprising a circular shoe portion, a shank integral therewith, and provided with a central longitudinal bore adapted to receive a retaining screw, said member positively resisting relative rotary movement between itself and the pin, and adapted to prevent breakage and reduce wear of the base of said pin.

1,679,073. BILLIARD CUE. JOHN R. CARMICHAEL, Dormont, Pa. Fied Aug. 16, 1927. Serial No. 213,252. 4 Claims. (Cl. 273—68.)



1. A jointed billiard cue comprising two sections, a jointing screw permanently disposed in one section and a screw-receiving jointing member positioned in the other section, said member comprising a circular base, a shank integral therewith, and a threaded bore formed in said base and shank to engage the threads of said jointing screw, said member having a driven fit in said section to resist relative rotary movements therebetween.

1,679,074. TEMPLATE FOR GUIDING ROUTERS. RAY L. CARTER, Phoenix, N. Y. Filed June 6, 1927. Serial No. 196,829. 8 Claims. (Cl. 145—129.)

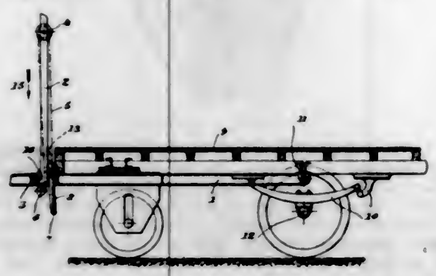
1. A template for guiding a routing tool while cutting a recess in the edge of a door, comprising a frame having an opening for the play of the tool adapted to coincide.

with the mouth of the lock mortise, means for clamping said frame to the door, adjustable means carried by said



frame for gauging the long dimension of the recess, and adjustable means for gauging the short dimension of the recess.

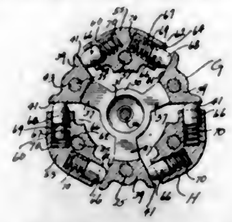
1,679,075. HOISTING MECHANISM FOR DUMPING TRUCKS. JOSEPH CODER and LOUIS CODER, St.-Marcelles-Marseille, France. Filed June 25, 1926, Serial No. 118,574, and in France Apr. 26, 1926. 1 Claim. (Cl. 298—19.)



In a hoisting mechanism for dumping trucks, the combination with an auxiliary chassis, of a main chassis hinged to said auxiliary chassis, means for swinging said main chassis on its hinges, said means comprising a winding drum pivotally mounted on said auxiliary chassis, upright members pivoted at the front end of the auxiliary chassis, grooved pulleys mounted at the upper part of said members, downwardly projecting brackets mounted on the main chassis in front of the upright members, flexible hoisting means connected to the lower part of said brackets and to said winding drum and passing over said pulleys, and means for guiding said main chassis during tipping, comprising rollers mounted on the upper part of said brackets, guiding flanges disposed laterally in regard to said rollers on the upright members, said rollers and flanges cooperating to guide the main chassis, until the rollers leave the upright members, whereupon the brackets come in contact with the grooved pulleys, to act as guides for the main chassis.

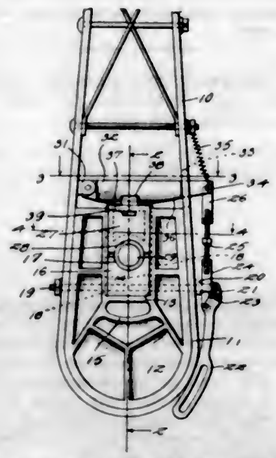
1,679,076. UNIVERSAL JOINT. EDWARD K. DEGENER, Huntington Park, Calif., assignor to Degener Cushion Universal Corporation, Los Angeles, Calif., a Corporation of California. Filed May 15, 1926. Serial No. 109,437. 5 Claims. (Cl. 64—96.)

1. In a universal joint the combination of a pair of members, means pivotally connecting said members centrally with a ball and socket joint to permit but limited degree of movement with respect to each other, each of said members having spaced arms, with the arms of the members alternating with each other, the arms of one of said members having plane surfaces facing the arms of the



other member, and means on the arms of the last mentioned member slidably operating over said plane surfaces free of positive connection therewith.

1,679,077. WELL-DRILL PITMAN BEARING. WILLIAM H. FENNEMAN, Taft, Calif., assignor to Mary Katherine Fenneman. Filed Apr. 16, 1927. Serial No. 184,371. 1 Claim. (Cl. 287—93.)



A pitman including a yoke, a block seated in the bight of the yoke and having an angular recess, a lower bearing block seated in the recess, a bolt disposed transversely through the yoke, the block and the bearing block, an upper bearing block disposed in the recess and having upwardly extending opposing L-shaped lugs on its upper end, the inner faces of the transverse portions of said lugs being inclined transversely of the lugs, a lever disposed through the arms of the yoke and having longitudinally extending tapered ribs engaged beneath the inclined portions of said L-shaped lugs, and means mounted on said bolts and operatively connected with the said lever for moving the latter to engage and disengage the movable bearing block with respect to a crank pin.

1,679,078. METHOD OF DRYING COAL AND LIKE FUELS. HANS FLEISSNER, Leoben, Austria. Filed Apr. 25, 1927, Serial No. 186,594, and in Austria May 14, 1926. 4 Claims. (Cl. 34—24.)

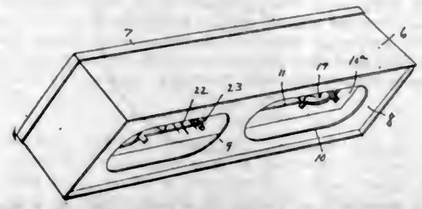
1. Method of drying coal and like fuels of a colloidal character so as to prevent the same from falling to pieces, consisting in first heating the fuel in saturated steam under pressure, to a temperature which is considerably higher than the drying temperature, and subsequently drying by reducing the partial pressure of the steam in order to prevent the fuel from falling to pieces and provide for a quick drying.

1,679,079. SIGN. FRANCIS P. GSTALDER, Cleveland, Ohio. Filed Mar. 8, 1927. Serial No. 172,452. 9 Claims. (Cl. 40—140.)



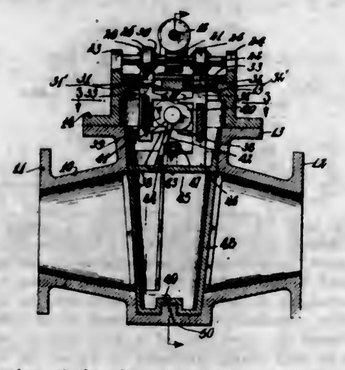
1. A holder for sign characters having a marginal flange at one edge thereof, comprising a rack provided at one edge with a base flange upon which the flange of the sign character rests, a locking bar pivotally connected at one end to one end of the rack for clamping of the sign character flange to the base flange of the rack, and means connecting the opposite end of the locking bar to the rack for preventing withdrawal of the sign character from the rack.

1,679,080. MILK-BOTTLE LOCK. DAYTON S. HALLOWAY, Albany, Oreg. Filed Aug. 23, 1927. Serial No. 214,868. 4 Claims. (Cl. 232—41.)



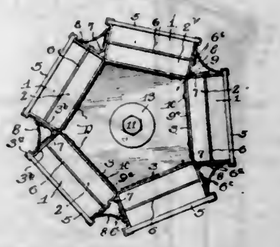
1. In a milk bottle lock and holder of the class described, a box having a bottom provided with elongated openings for passage of a milk bottle, a partition plate in said box disposed in spaced parallelism with said bottom and formed with key-hole shaped slots in vertical alinement with said openings to permit a milk bottle to be inserted through the openings and passed upwardly and into the enlarged end portions of the slots and then shifted longitudinally into the restricted portions of the slots whereby it is suspended, and a longitudinally shiftable retaining device on said partition plate cooperable with said slots, said device being provided with holes for passage of the bottle neck.

1,679,081. VALVE. HUGO HANEBERG, New York, N. Y. Filed May 4, 1927. Serial No. 188,637. 2 Claims. (Cl. 251—97.)



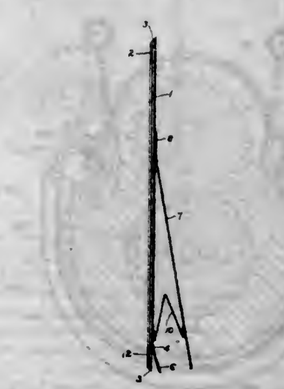
1. A valve of the class described comprising a valve body, a valve head rotatively and slidably mounted therein, a pair of key members slidably supported on the valve body, an extension projecting from one of the keys, the valve head being rotatably connected to the extension, upper and lower extended elements projecting from the said key members, cam elements engaging between the upper and lower extended elements, a stub shaft projecting from the cam elements, a finger projecting from the shaft, the valve head being formed with a face cam engageable by the finger, and means for sliding said key members so that the extension projecting from one of the key members raises or lowers the valve head and the upper and lower extended elements projecting from the key members move the engaged cams, the stub shaft, and the finger, so that the finger engages the face cam of the valve head and rotates the valve head in one direction or the other.

1,679,082. DISPLAY STAND. AUGIE L. HANSEN, Chicago, Ill., assignor to A. L. Hansen Manufacturing Company, Cook County, Ill., a Corporation of Illinois. Filed July 12, 1924. Serial No. 725,551. 4 Claims. (Cl. 312—42.)



1. A display stand comprising a plurality of upright package dispensing units arranged symmetrically about a vertical central axis in polygonal formation with their inner vertical edges in substantial abutting contact and forming outwardly opening V-shaped recesses therebetween, unit connecting members located in said V-shaped spaces and resilient panel strips adapted to be bowed transversely and inserted edgewise forward between the adjacent forward edges of said units.

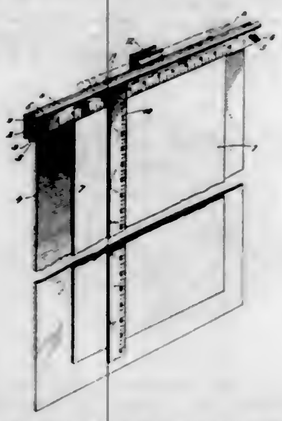
1,679,083. PICTURE HOLDER. WILLIAM J. HELMQUEST, San Francisco, Calif., assignor to California Card Manufacturing Company, San Francisco, Calif., a Corporation of California. Filed Apr. 6, 1925. Serial No. 20,889. 1 Claim. (Cl. 40—159.)



A picture holder comprising an open-faced front board or frame, a spacer strip secured on the rear face of the open-faced front board adjacent the edges thereof, a back

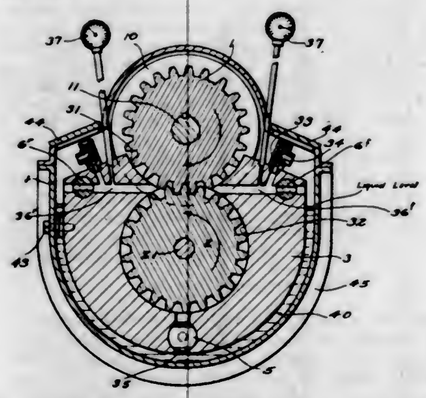
board secured around three marginal edges to said stripe, the configuration and dimensions of the back board being the same as the front board, the unsecured edge of the back board being creased in parallelism with the edge at a distance from the edge, said free edge being slitted inwardly short of the sides and the end portions secured to the stripe to form a closure flap at said free edge of the back board of a length slightly greater than the width of the opening in the front board whereby a picture may be inserted within the frame, the marginal edges of the assembled front board strip and back board being beveled.

1,679,084. PAD HOLDER AND RULER. REBECCA E. HOOPER, Half Moon Bay, Calif. Filed Oct. 3, 1927. Serial No. 223,586. 2 Claims. (Cl. 33—76.)



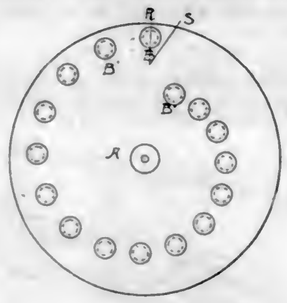
1. A device of the character described comprising an upper and a lower bar, clamping means cooperating therewith to retain and secure a pad between the bars, a slotted tubular shaped guide member on the upper bar and extending substantially from end to end thereof, and a T-square having a head member formed thereon which is slidable in the slotted guide to permit transverse movement of the T-square with relation to the pad.

1,679,085. HYDRAULIC RESISTANCE CONTROL APPARATUS. LUTHER J. HULL, Seattle, Wash. Filed Mar. 6, 1925. Serial No. 13,479. 10 Claims. (Cl. 188—92.)



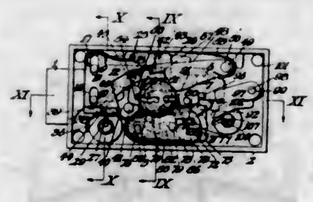
1. The combination with a fluid pump having an inlet and an outlet, and including gears continuously rotatable to build up pressure upon fluid passing through the pump, of valve means for controlling the fluid discharged from said pump to resist rotation of said gears, other valve means operable to admit fluid while said first valve means controls the discharge of fluid and to prevent admission of fluid while said first valve means is in open position, additional valve means for controlling the fluid discharged from said pump when operating in a reverse direction, thereby to resist rotation of said gears, and means connecting the three control valves for simultaneous actuation, said actuating means being movable in the same direction for control of the valves to effect braking in either forward or reverse directions.

1,679,086. SPIRAL-MOUNTED LENS DISK. CHARLES FRANCIS JENKINS, Washington, D. C. Filed Jan. 2, 1925. Serial No. 222. 2 Claims. (Cl. 178—6.)



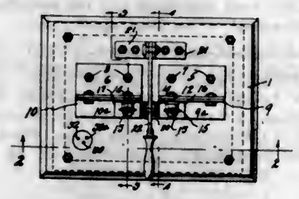
1. In combination, a stationary picture surface, a stationary light translating element, a rotatable disk interposed between said surface and said element, said disk being provided with a plurality of apertures of large dimensions as compared with an elementary area of the picture surface, and a spherical lens mounted in each aperture for imaging the picture surface and the light translating element each upon the other, said apertures and lenses being so arranged that upon rotation of the disk the lenses pass successively between said surface and said element, and successive images of the light translating element traverse the picture surface by adjacent parallel paths.

1,679,087. CHANGEABLE-COMBINATION KEY LOCK. FRANK W. JOHNSON, Philadelphia, Pa. Filed Nov. 8, 1926. Serial No. 146,948. 28 Claims. (Cl. 70—70.)



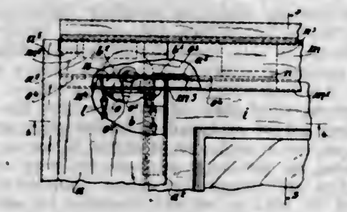
1. In a lock, the combination with a casing; of a movable locking bolt in said casing; a series of reciprocatory fences, in said casing, arranged to be set in different relative positions by key controlled means; setting means arranged to retain said fences set for a given combination, constructed and arranged to be immovable until released by operation of a key; and a series of tumblers in said casing arranged to be set in different relative positions by key controlled means; whereby said bolt is held against movement except when said tumblers are set to cooperate with said fences.

1,679,088. ELECTRIC BRAZING MACHINE. ALBERT T. KOEHLER, Pontiac, Mich. Filed June 10, 1927. Serial No. 197,801. 3 Claims. (Cl. 219—12.)



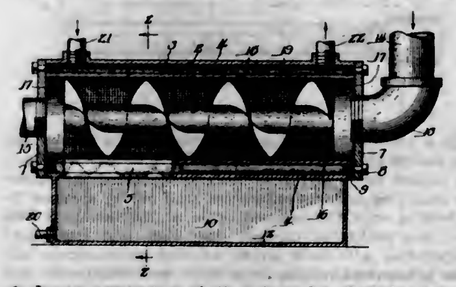
1. A device of the character described comprising a table having brackets thereon, said brackets being insulated from one another, a supporting flange on each of said brackets, said flanges being substantially in line with one another, clamping plates vertically movable over said flanges and supported by said brackets, a fixed block between the adjacent ends of said flanges having its upper surface substantially level with said flanges and insulated from them, a lever pivotally mounted on said table, and a pressure plate on said lever adapted to bear down on said fixed block, in combination with an electric circuit having a wire connected to each of said brackets so that said circuit is adapted to be closed by pieces of conducting material extending inwards from said supporting flanges and coming in contact with one another over said block.

1,679,089. METAL WINDOW. MICHAEL KOHUT, Elmhurst, N. Y., assignor to S. H. Pomeroy Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 3, 1927. Serial No. 230,754. 9 Claims. (Cl. 189—75.)



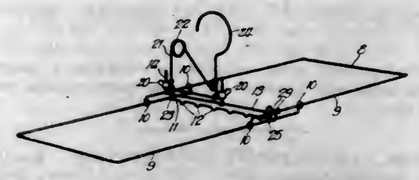
1. In a metal window the combination of a sheet metal jamb, a sheet metal frame head, means to secure together the jamb and the frame head, a horizontal heavy metal reinforcing plate fitted within the frame head at its end and extended across the jamb near its upper end and fitted into the same, and means to secure the jamb to said plate.

1,679,090. FLUID SEPARATOR AND HEATER. FERDINAND ERNST LAMMERT, Chicago, Ill. Filed Feb. 18, 1926. Serial No. 89,246. 3 Claims. (Cl. 157—233.)



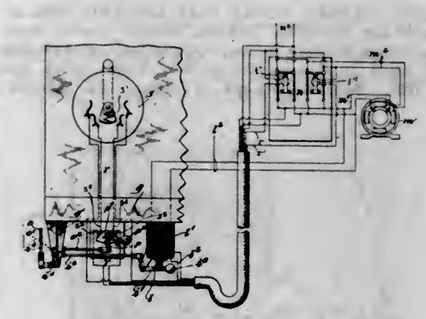
1. In an apparatus of the class described having a cylindrical horizontally arranged shell lined with a wire netting within which there is a spiral air deflector having a cylindrical core forming a spiral passageway for a fluid to be cooled, an aperture in the lower side of the said shell for the escape of a separated liquid, in combination with a jacket about the said cylinder in which there may be passed a medium adapted to absorb the heat.

1,679,091. GARMENT BAG AND HANGER. MICHAEL LUERY, Chicago, Ill. Filed Apr. 1, 1926. Serial No. 99,117. 4 Claims. (Cl. 312—6.)



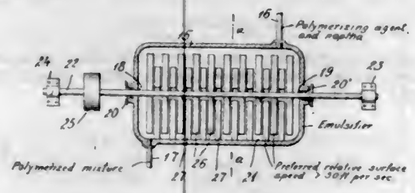
1. A suspension frame for flexible garment containers including a pair of slidably connected frame sections normally extended and capable of being telescoped to arrange them in superimposed relation, a transverse garment hanger hook engaging bar carried by one of the sections, a transverse notched bar for supporting a plurality of garment hangers connected to the other section, and a stop adapted to engage both of said transverse bars to prevent accidental longitudinal movement of the sections.

1,679,092. ELEVATOR. HAROLD V. MCCORMICK, Long Beach, N. Y., assignor, by mesne assignments, to Shur Loc Elevator Safety Corporation, Newark, N. J., a Corporation of New Jersey. Filed Jan. 29, 1927. Serial No. 164,415. 10 Claims. (Cl. 187—50.)



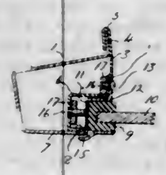
5. In an elevator having a shaft door, a car, a motor to operate the car, a car controller on the car and means to supply power to the motor under the control of the controller, a locking device normally preventing effective opening movement of the door, means to operate the locking device to release the door, means carried by the car for cooperation with said last named means to effect release of the locking device when the car is positioned with respect to the door, said last mentioned means being movable out of operative position, and devices interconnected with the motor controlling means to withdrawn said movable means from operative position when power is supplied to the motor.

1,679,093. POLYMERIZATION AND PURIFICATION OF HYDROCARBONS. STUART P. MILLER and JOSEPH BENNETT HILL, Philadelphia, Pa., assignors to The Barrett Company, a Corporation of New Jersey. Filed Aug. 5, 1926. Serial No. 127,226. 17 Claims. (Cl. 260—7.)



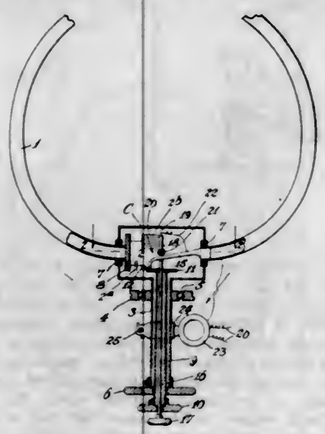
1. The process which comprises emulsifying a polymerizing agent and naphtha containing polymerizable constituents.

1,679,094. VEHICLE-BODY CONSTRUCTION. MARVIN W. MOESTA, Detroit, Mich., assignor to Murray Body Corporation, Detroit, Mich., a Corporation of Michigan. Filed Nov. 23, 1925. Serial No. 70,849. 6 Claims. (Cl. 296—28.)



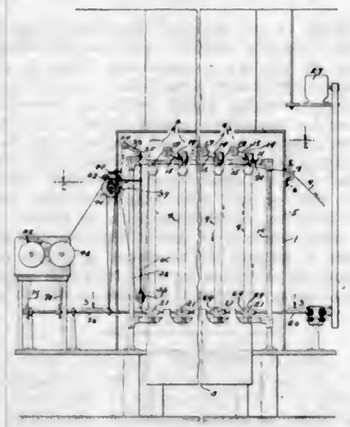
1. In combination, a pillar having an outwardly opening, longitudinally extending channel-shaped portion with the base of the channel substantially parallel to the inner wall of the pillar, and a glass run holder upon the inner side of said pillar having a base substantially parallel to the base of said channel portion, and securing means for said holder including an element extending through said parallel bases.

1,679,095. CLOSED TUNED COIL OR LOOP AERIAL. GREENLEAF WHITTIER PICKARD, Newton Center, Mass., assignor to Wireless Specialty Apparatus Company, Boston, Mass., a Corporation of New York. Filed June 30, 1921. Serial No. 481,498. 4 Claims. (Cl. 250—33.)



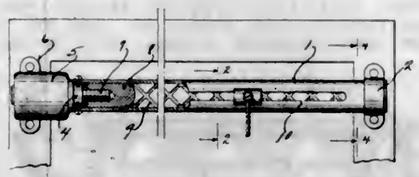
1. In a radio apparatus of the character described, a closed loop aerial having a condenser connectibly in series therewith, means for rotating said aerial, local operating apparatus, means extending along the axis of rotation of said aerial for adjusting said condenser, and a circuit inductively associated with the loop as a transformer secondary to the loop as a primary; the loop being insulated from the local apparatus and the secondary being electrically connected to the local apparatus.

1,679,096. FILM-TREATING APPARATUS. GEORGES POURFILLET, Leonia, and EGISTO GIOVANNONI, Fort Lee, N. J., assignors to Universal Pictures Corporation, New York, N. Y., a Corporation of New York. Filed May 25, 1927. Serial No. 194,042. 15 Claims. (Cl. 34—48.)



1. Film treating apparatus including mechanism for imparting motion to the film, comprising a plurality of shafts arranged in pairs the shafts of each pair being disposed in superposed relation, idler rollers carried by one shaft of each pair, idler rollers and a driven roller carried by the other shaft of each pair, the film being trained over all of said rollers substantially helically from end to end of each pair of shafts, a take-up roller for receiving the film as it is discharged from the apparatus, and tension-controlling means intermediate said rollers and the wind-up reel and dependent for operation upon the length of film between the rollers adjacent the take-up roller and the take-up roller for controlling the operation of the take-up roller.

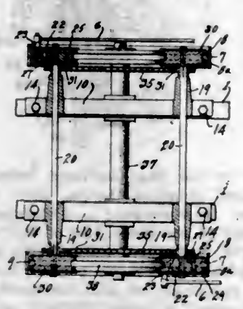
1,679,097. WINDSHIELD WIPER. CHARLES SCHULTZ, North Milwaukee, Wis. Filed July 14, 1927. Serial No. 205,623. 1 Claim. (Cl. 15—253.)



In a windshield wiper, the combination of a tubular casing having an elongated slot provided with bevelled edges, an endless screw fitting within and supported throughout its length by said casing, a cross head having portions interlocking with the bevelled edges of the casing at said slot and projecting through such slot, said cross head cooperating with said screw, whereby reciprocatory motion is imparted to said cross head upon rotation of said screw, said cross head being adapted to carry a cleaning element, an electric motor having a casing fitting within

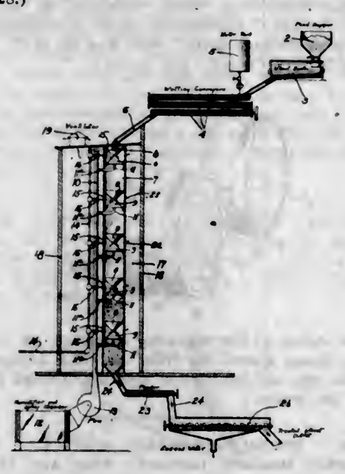
and secured to one end of said first mentioned casing, said electric motor having a driving shaft directly operatively coupled to said screw, and a support for the other end of said first mentioned casing.

1,679,098. DIFFERENTIAL DRIVING ARRANGEMENT. AHMAD N. SHAHPAR, Highland Park, Mich. Filed July 1, 1927. Serial No. 202,785. 5 Claims. (Cl. 180—10.)



1. An arrangement of the character described comprising annular driving wheels having internal gears therein, cross shafts extending through both of said wheels, gears on each cross shaft meshing with said internal gears, a differential drive on each cross shaft so that the speed of rotation of the gears on the opposite ends of said shafts may vary, stub-shafts, an idler gear on each stub shaft meshing with one of said internal gears, means for imparting power to said idler gears so that both the gears and the idler gear cooperating with each internal gear all impart an equal amount of power thereto, an axle, carrying wheels on said axle, internal annular flanges in said driving wheels against which said carrying wheels are adapted to turn, and separate means for operating each differential drive.

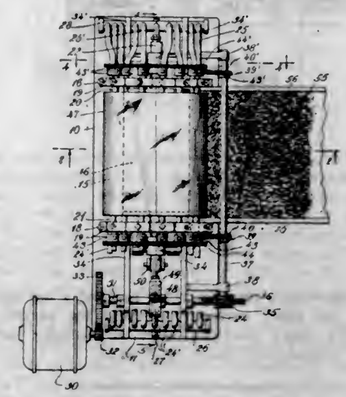
1,679,099. METHOD OF AND APPARATUS FOR TREATING WHEAT. LOUIS E. SMITH, Minneapolis, Minn., assignor to International Milling Company, Minneapolis, Minn., a Corporation of Delaware. Filed May 28, 1925. Serial No. 33,475. 16 Claims. (Cl. 83—28.)



1. The method of treating wheat to increase the acidity and volume of soluble carbohydrates and decrease the starch and dry gluten content, which consists in subjecting the wheat berries while moving in a thin sheet and in a closed chamber to the action of independently regulated currents of moist air.

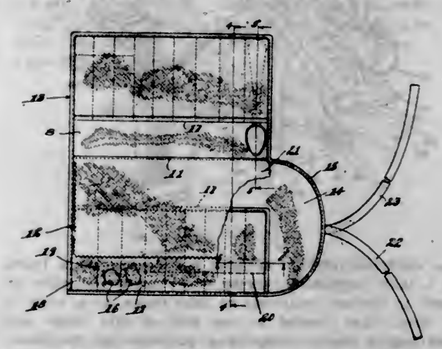
10. Apparatus for treating grain comprising an upright tank, a series of hopper cones, each having a discharge opening, and arranged at intervals in said tank and dividing the same into compartments, a perforated distributor arranged beneath each hopper cone and over which the grain passes in a thin sheet from said hopper, an air pipe arranged beneath each distributor, and means for forcing air through said pipe and through said distributor and into contact with the passing grain.

1,679,100. ROTARY FELTING MACHINE. FREDERICK C. STURGIS, Newark, N. J. Filed Sept. 15, 1927. Serial No. 219,653. 14 Claims. (Cl. 28—6.)



1. In a rotary felting machine, the combination of a cylinder, a plurality of pressure rolls engaging the surface of the cylinder, means for driving said rolls at the same speed, said cylinder being driven by friction by the rolls, and means for imparting a reciprocating axial movement to said cylinder.

1,679,101. SILVERWARE CONTAINER. FELIX STERNTHAL, Chicago, Ill. Filed May 25, 1926. Serial No. 111,553. 1 Claim. (Cl. 150—52.)



A container for silverware comprising two pliable sheets consisting of a backing sheet and a wrapping sheet having the same outline and area and sewed together along their marginal edges and foldable along a folding line to provide right and left-hand sections; a holding sheet on each section having one marginal edge corresponding with and sewed to the marginal edge of the backing and wrapping sheets and extending over

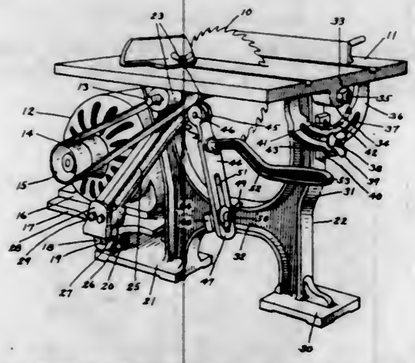
the wrapping sheet a given distance but terminating short of the folding line; intervally spaced lines of stitching connecting the wrapping sheet and holding sheets and defining a series of elongated spaces bounded by the walls of the wrapping sheet and holding sheets; a pliable covering attached to the wrapping sheet and placeable to provide a partition between the wrapping and holding sheets of the right and left-hand sections; extending portions extending from said backing and wrapping sheets at one end of one section and adapted to overlie the backing sheet when the sections are folded; and tie members extending from the extending portions for securing the sections in folded condition, substantially as described.

1,679,102. VENTILATED GARMENT. FULLER W. THOMPSON, Arcadia, Calif. Filed Sept. 7, 1926. Serial No. 133,776. 1 Claim. (Cl. 2—228.)



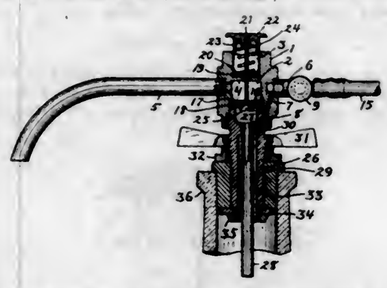
In knickerbocker trousers, a leg portion, a leg encircling band at the lower extremity of said leg portion; said leg portion being provided with an annular series of aertures immediately above said band.

1,679,103. ELECTRICALLY-DRIVEN CIRCULAR SAW. WILLIAM S. THOMSON, Plantsville, Conn., assignor to The Tobrin Tool Company, Plantsville, Conn., a Corporation. Filed Mar. 9, 1927. Serial No. 174,037. 1 Claim. (Cl. 143—35.)



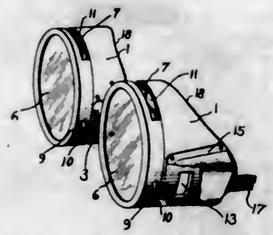
An electrically-driven circular saw comprising a frame and a table supported thereby, a swinging structure arranged to operate relatively to said frame as a lever of the third class pivoted at one side of said frame and comprising a motor supporting platform at the lower pivoted end, a bearing for the saw shaft at the upper end to project the saw through the table at about the middle thereof, and a supporting adjusting arm pivoted to said lever intermediate said platform and shaft and adjustably engaging the frame, and a handle for manipulating said structure projecting from said arm to the other side of the table for manipulation from the operator's position.

1,679,104. BEVERAGE PUMP. FRANK J. TRAUTMAN, Fort Wayne, Ind. Filed Aug. 19, 1927. Serial No. 214,029. 1 Claim. (Cl. 225—22.)



An appliance of the class described including a head having two alined chambers therein, there being a perforated partition therebetween; a perforated sustaining disc in said head at the lower end of the lowermost of said chambers; a perforated rubber valve seat beneath and bearing against said disc; a packing member in the bottom of the uppermost of said chambers including a rubber disc therefor; a valve disposed with its head bearing upwardly against said valve seat and with its stem extending upwardly through said seat, sustaining disc, partition, and packing member; a spring pressed push button secured on the top of the stem of said valve and having a sleeve extending into and closing said uppermost chamber; a discharge spout secured to said head and having communication with said lowermost chamber therein; a tubular post having a valve chamber in its top, the upper end of said post being secured in the lower end of said head and clamping said valve seat in place; a discharge pipe extending upwardly into said post with its upper end secured therein and having communication with the valve chamber therein, there being an annular space in said post surrounding said tube beneath the upper portion thereof; a valve controlled air supply means in connection with said head and having communication with said annular space in said post, there being a passage-way in said head and in said post affording communication therebetween; and a stopper fixture on said post for mounting the appliance upon a vessel.

1,679,105. GOGGLES. GEORGE L. TULLY and SOLOMON LACASSE, Southbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed May 16, 1927. Serial No. 191,732. 6 Claims. (Cl. 2—14.)



1. In a device of the character described, an eye cup, a pair of lenses spaced one from the other adjacent one end of the cup, and ventilation openings through the cup between the lenses.

1,679,106. SOUND-PRODUCING DEVICE. ALFRED WEINSTEIN, Hamburg, Germany. Filed Apr. 21, 1927. Serial No. 185,439. 5 Claims. (Cl. 84—379.)

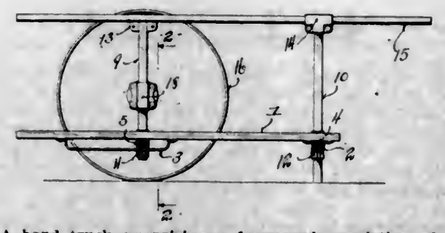
4. A card formed of a pair of sheets secured together along their edges, a sound producing device for producing a plurality of tones mounted between said sheets

along the edges thereof to receive air from the mouth of the user, one of said sheets having a plurality of spaced openings to permit the escape of air after passing



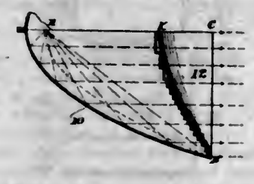
through the device, said openings having passageways communicating with different tone portions of the device whereby the tones may be controlled by obstruction of the openings.

1,679,107. HAND TRUCK. HENRY WOLDT, Brillion, Wis. Filed June 6, 1927. Serial No. 196,848. 1 Claim. (Cl. 280—53.)



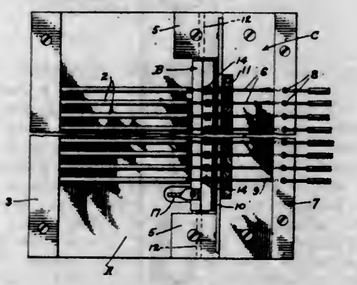
A hand truck comprising a framework consisting of a bottom, a pair of upper bars, uprights adjustably joining said bottom and said upper bars, a pair of transverse bars positioned beneath said bottom and joining certain of said uprights, a pair of supporting wheels, axles for said wheels, said axles having brackets rigid therewith and slidably mounted upon certain of said uprights, means for adjustably clamping said brackets to their corresponding uprights, said bottom and said upper bars being adjustable forwardly or rearwardly with respect to the uprights which carry the said axles, whereby the relation of the load to the axis of the axles may be varied, as desired, said transverse bars being telescopic and each having a pair of sleeves and a rod carried by the sleeves, and means for adjustably locking said sleeves and said rods together.

1,679,108. CONDENSING REFLECTOR. WILLIAM G. WOOD, San Francisco, Calif., assignor to American Woodlite Corporation, San Francisco, Calif., a Corporation of California. Filed Nov. 3, 1925. Serial No. 66,450. 5 Claims. (Cl. 240—41.)



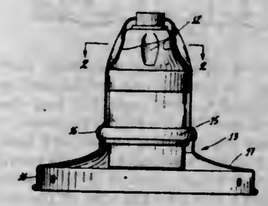
1. A secondary reflector for re-reflecting light rays, whose exterior surface is parabolic on all parallel horizontal planes, which surface intersected by a pencil of planes with axis coincident with the locus of the foci of said parallel horizontal parabolas form steps having corresponding points lying on a vertical parabolic arc.

1,679,109. SWITCHING DEVICE. WILLIAM D. WOOD, San Francisco, Calif. Filed May 31, 1927. Serial No. 195,257. 4 Claims. (Cl. 200—6.)



4. In a switch of the character described a base plate, a plurality of interspaced rods extending cross-wise of the base plate; means whereby opposite ends of the rods are secured; a secondary base plate disposed above the first named base plate; a plurality of interspaced flexible wire rods supported by said secondary base plate, said flexible wire rods being placed in alignment with the first named rods; means securing one end of the flexible wire rods with relation to the secondary base; means whereby the opposite ends of the flexible wire rods are guided; a rocker arm pivotally mounted between the first and last named wire rods and extending substantially from end to end of the base plate; means for imparting pivotal movement to said rocker arm, said rocker arm having a plurality of slots formed therein, one slot for each pair of aligned wire rods; a circuit closing bar reciprocally mounted in each slot and guided thereby, said circuit closing bars being in constant contact with the first named wire rods and being movable to and away from the flexible wire rods during pivotal movement of the rocker member; said circuit closing bars being rounded at their opposite ends so as to be guided with relation to the first and second named wire rods.

1,679,110. COMBINED ELECTRIC-LIGHT SOCKET AND COVER. GEORGE AINSWORTH, Great Neck, N. Y. Filed Mar. 6, 1925. Serial No. 13,435. 3 Claims. (Cl. 173—362.)



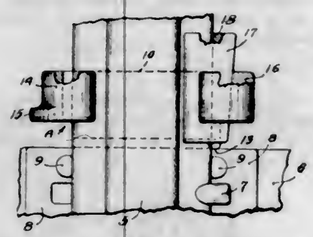
1. The combination with an electric light socket having a plurality of indentations at its upper end and a shoulder formed on said socket, of a cover therefor formed on said socket, said cover having indentations fitted to the indentations at the upper end of said socket, an annular corrugation adjacent the lower end of said cover which fits the shoulder on said socket, whereby said socket may snap into said corrugation when the socket is pushed up into the cover.

1,679,111. PNEUMATIC PUMP. CHARLES B. ALYEA, Downers Grove, Ill. Filed Nov. 26, 1924. Serial No. 752,414. 14 Claims. (Cl. 103—248.)



1. A pump comprising a casing having air inlet and outlet ports and water inlet and outlet openings, valves controlling the air inlet and outlet ports and water openings, a pair of pivotally mounted levers adapted to open and close the air valves, the said levers co-acting to form arches above and below the piotal mountings, connections between said levers and the air valves and means operated by the water whereby a pulling force is exerted on said levers when in arched position thereby opening and closing the air inlet and outlet ports.

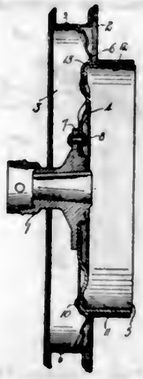
1,679,112. RAIL ANCHOR. CHARLES W. BALDRIDGE, Chicago, Ill. Filed Sept. 21, 1927. Serial No. 220,933. 2 Claims. (Cl. 238—324.)



2. A rail anchor comprising a member having a rail engaging portion, an arm at one end of said portion projecting first upwardly, then inwardly and then slightly downwardly, said arm being adapted to overlie the base of a rail and to bear against the top of said base, a second arm projecting first upwardly and then diagonally upwardly and inwardly, a wedge adapted to be inserted between said last mentioned arm and the side of the rail to clamp the rail against the downwardly projecting portion of said first mentioned arm under resilient tension and a tie bearing surface below said engaging portion and forwardly offset therefrom.

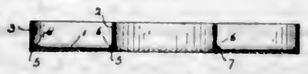
1,679,113. VEHICLE WHEEL. WILLIAM N. BOOTH, Detroit, Mich. Filed May 11, 1925. Serial No. 29,609. 4 Claims. (Cl. 301—63.)

2. In a disk wheel, the combination with a brake drum having a brake flange for engagement by a brake element and a web, of a web member mounted upon said brake drum and forming with the web thereof the wheel web,



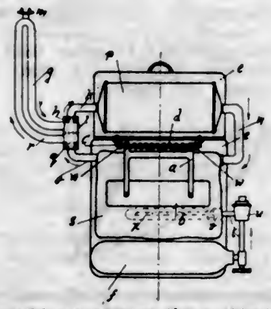
one of said wheel web members having an aperture therein for the passage of an instrument therethrough and between the brake flange and brake element.

1,679,114. VULCANIZING PAN. JACK CHURCHWARD, New Haven, Conn. Filed Sept. 22, 1925. Serial No. 57,845. 1 Claim. (Cl. 18—2.)



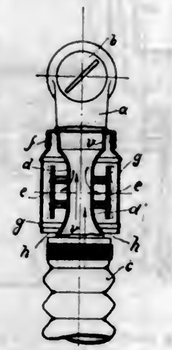
In construction for vulcanizing pans for rubber-covered wire or the like, in combination, a circular outer side wall of sheet metal, a circular inner side wall of sheet metal, an annular sheet metal bottom member extending between said side walls, the bottom edge portions of said side walls projecting below the level of said bottom member, the edges of said bottom member being secured to said side walls by welding on the bottom of the pan in the angle between the under surface of said bottom member and the inner sides of said downwardly projecting portions of the side walls and by welding also on the inner side of the pan in the angle between the upper surface of said bottom member and the inner surfaces of said side walls, said outer welding providing downwardly projecting ridges adapted to support the pan and hold said bottom member away from a surface upon which the pan rests, said inner welding providing smooth fillets on the interior of the pan bottom.

1,679,115. SPRING CLAMP FOR BREATHING BAGS. ALEXANDER BERNHARD DRÄGER, Lubeck, Germany; Elfriede Dräger, née Stange, executrix of said Alexander Bernhard Dräger, deceased. Filed Oct. 2, 1924, Serial No. 741,237, and in Germany Nov. 9, 1923. 2 Claims. (Cl. 128—191.)



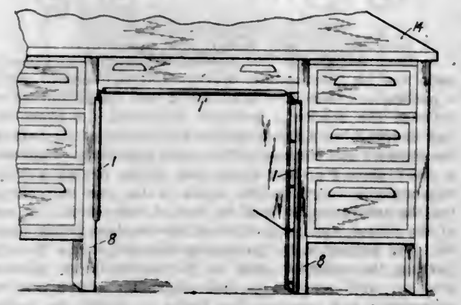
1. In a breathing apparatus, the combination of a supporting frame, a breathing bag mounted thereon, and a clamping device pivotally suspended from said frame independently of said bag and having free ends adapted to exert a resilient compression on opposite faces of said bag.

1,679,116. BREATHING TUBE FOR SELF-RESCUE APPARATUS. ALEXANDER BERNHARD DRÄGER, Lubeck, Germany; Elfriede Dräger, née Stange, executrix of said Alexander Bernhard Dräger, deceased. Filed Oct. 29, 1925, Serial No. 65,692, and in Germany Nov. 6, 1924. 3 Claims. (Cl. 128—140.)



1. In a breathing apparatus, a breathing valve comprising an open ended tubular casing contracted at its intermediate portion and provided with a valve opening in its wall at said contracted portion, one end of said casing being adapted for connection with a breathing tube, and a protective sleeve enclosing said valve and valve opening and having its one end in screwthreaded connection with said casing and its other end defining an annular outlet between itself and said casing, the inner diameter of said sleeve being greater than the outer diameter of said breathing tube whereby said sleeve may be disconnected from said casing and slidably shifted lengthwise of said tube to expose said valve and valve opening.

1,679,117. FURNITURE FENDER. CLAYTON D. DYE, Denver, Colo. Filed Feb. 26, 1927. Serial No. 171,218. 3 Claims. (Cl. 45—137.)



1. A furniture fender adapted to cover an edge formed by two faces on an article of furniture and composed of a strip of sheet material, the two longitudinal edges of which are adapted to contact with the two faces, the fender formed to have a second contact with one of said faces parallel to and spaced from its longitudinal edge and having a series of mounting screw holes therebetween, and formed to an arc extending from said second contact clearing the furniture edge and terminating in the other longitudinal edge of the fender.

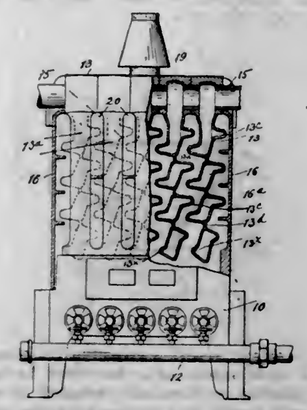
1,679,118. MARL-DIGGING MACHINE. ALBERT J. ELKINS, Coral, Mich. Filed July 26, 1926. Serial No. 125,049. 7 Claims. (Cl. 37—117.)



6. In combination, spaced apart posts one higher than the other, a trolley cable fastened at one end to the lower post, a pulley attached to the upper end of the higher post over which the trolley cable passes, an anchor post around which the end of the trolley cable is adjustably fastened, a digging device including a frame and a digging scoop pivotally mounted at one end on said frame, said digging device being mounted on said trolley cable, means for moving the digging device in opposite directions on said trolley cable, latching means on said digging device automatically connecting with the scoop to hold it parallel to the frame on movement of said digging device toward the shorter post, a trip block on the trolley cable near said higher post, means connected with the latching means adapted to engage said trip block and move the latching means from engagement with the scoop for dumping its contents when the digging device is moved towards said higher post, a depth gauge pivotally mounted on the same in front of the front end of the scoop, said depth gauge moving towards the front end of the scoop when the digging device is drawn towards the higher post, said depth gauge extending transversely across the front end of the scoop so as to ride on the upper surface of the material to be dug, and means for limiting the movement of said depth gauge towards the front end of the scoop.

1,679,119. [WITHDRAWN.]

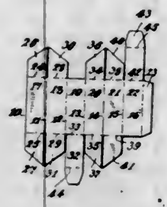
1,679,120. WATER HEATER. OTTO FOX, Lakewood, Ohio, assignor to The Bryant Heater and Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 28, 1925. Serial No. 18,967. 7 Claims. (Cl. 122—210.)



1. A boiler or water heater composed of a series of sections arranged side by side, each section having front and rear conduit portions and spaced transverse ducts

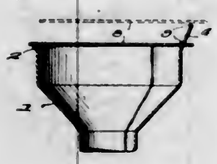
communicating at their ends with the conduit portions, the walls of the ducts between their ends being joined one to another and the ducts having on opposite sides of a vertical section lengitudinally disposed lateral extensions, those on one side being formed on the upper portions of the ducts and those on the other side being formed on the lower portions of the ducts, the ducts of the adjacent sections being spaced to provide passageways for heated gases.

1,679,121. BOX. WILLIAM M. FREEDMAN, Brooklyn, N. Y., assignor to Sell-Best Novelty Candy Co. Inc., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 28, 1925. Serial No. 53,012. 2 Claims. (Cl. 229—38.)



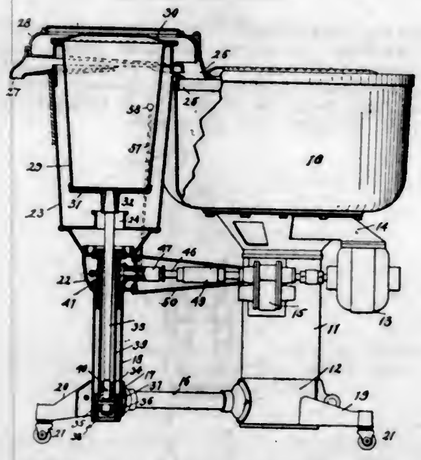
1. A box for candy and the like, comprising oppositely disposed pairs of side walls, oppositely placed side walls intermediate of the said pairs of side walls, end flaps extending from the end of each pair of side walls, the said flaps being tapered from one side to the other forming a point at the extremity of the long side thereof with the long side of each of the said flaps substantially equal to the distance between oppositely disposed side members of the box so that when folded to place the points of the flaps first folded to position fit into corners between adjacent side members to shape the box and form an end wall for the box, an extension from one of the said intermediate walls adapted to overlie the said flaps to retain the same in place, and a flap at the extremity of the said extension adapted to be tucked within the oppositely disposed intermediate wall to secure the said extension in position.

1,679,122. MILK STRAINER. HORACE S. FRIES, Madison, Wis. Filed May 14, 1926. Serial No. 109,151. 2 Claims. (Cl. 220—31.)



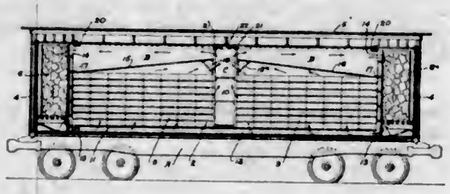
1. The combination with a utensil of the class described having an open mouth, of a flat cover having smooth straight unbroken surfaces only adapted to engage the edges of said mouth in a horizontal plane only, and a straight piece having plane surfaces only projecting from one of the walls of said utensil and engaging and extending through a straight edged opening in said cover to prevent lateral displacement thereof in any direction.

1,679,123. WASHING MACHINE. LEE B. GREEN, Lakewood, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed Oct. 8, 1927. Serial No. 224,785. 5 Claims. (Cl. 210—71.)



1. In a washing machine, a centrifugal drier comprising a clothes basket, an upstanding wand upon the upper end of which said basket is supported, a sleeve surrounding and spaced from said wand and attached thereto at their lower ends, and means for rotating said sleeve.

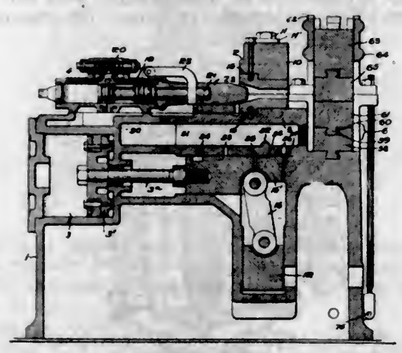
1,679,124. AIR-CIRCULATING DEVICE FOR REFRIGERATOR CARS. FRED E. GREENE, Berkeley, Calif., assignor to A. B. Humphrey Company, Escalon, Calif., a Corporation of California. Filed Apr. 27, 1927. Serial No. 186,894. 2 Claims. (Cl. 62—19.)



1. In a refrigerator car having ice bunkers at opposite ends and an intermediate storage compartment in which a perishable commodity is loaded in two stacks and braced between the stacks, a portable apparatus for promoting and maintaining a thermosiphon circulation of air through the bunkers and the commodity, said apparatus comprising a cover plate for each stack, said plates having a width substantially equal to the width of the car and having lengths substantially equal to that of each stack, the ends of the plates which are adjacent the bunkers being adapted to be supported by the commodity and means for supporting the opposite ends of the plates in an elevated position with relation to the commodity and means for supporting and securing the plates in under the ceiling of the car.

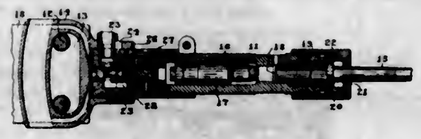
1,679,125. FORGING MACHINE. WADE H. WINEMAN, Chicago, Ill., assignor to Sullivan Machinery Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 17, 1916. Serial No. 84,960. 133 Claims. (Cl. 76—5.)

133. In a drill sharpening apparatus, the combination with relatively movable work clamping dies, of a motor for effecting relative movement therebetween, a fluid actuated dollying hammer for the work clamped by the dies, a valve chest common to the motor and hammer and provided with a motive fluid supply receiving port, an outlet supply port in communication with the dollying hammer and a second outlet supply port in communication with the motor, a rectilinearly reciprocatory valve device in the valve chest, said motive fluid supply port and one of said outlet supply ports lying to one side of the path of reciprocatory movement of the valve device and the other of said outlet supply ports lying to the



opposite side of the path of said valve device whereby said valve device is movable between certain of said ports, and said valve device being movable to a position in which it cuts off communication between the supply receiving port and the other two ports, and on movement in one direction from said position being operative to uncover successively to communication with the receiving port, the outlet supply port to the motor and the outlet supply port to the dollying hammer, and on movement in the opposite direction to interrupt the communication with said outlet supply ports in reverse order.

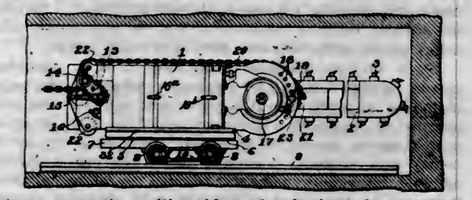
1,679,126. FORGING MACHINE. DANIEL J. O'ROURKE, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed July 9, 1917. Serial No. 179,535. 8 Claims. (Cl. 76—5.)



1. A bore opening mechanism for hollow drill steels comprising the combination of a support, an elongated bore opening pin mounted thereon, holding means permitting relative movement axially between said pin and support, a hammering device on said support comprising means for imparting a series of impacts directly on said pin, said holding means permitting said pin to remain lodged in the drill steel bore while permitting relative movement between said pin and support.

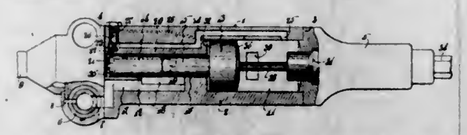
1,679,127. MINING MACHINE. CHARLES BRAND OFFICER, Winnetka, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 5, 1917. Serial No. 205,648. Renewed Oct. 10, 1925. 79 Claims. (Cl. 262—28.)

1. In a mining machine, a wheeled truck, cutting mechanism thereon including a cutter bar having cutting elements circulating in a vertical plane pivoted directly on a horizontal pivot at the front end of said truck, feeding mechanism operatively connected with said bar for swinging the same about its pivot, and truck driving mecha-



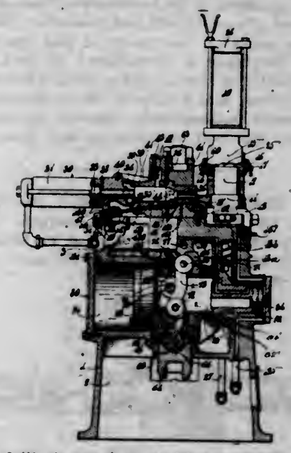
nism cooperating with said truck wheels and operatively connectable with said feeding mechanism for moving said truck in either direction.

1,679,128. FLUID-PRESSURE MOTOR. ELMER G. GARTIN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Feb. 20, 1920. Serial No. 360,137. 26 Claims. (Cl. 121—18.)



1. A fluid pressure percussive motor comprising a cylinder, a piston reciprocable therein having a reduced shank, and fluid distribution means including ports and passages for supplying motive fluid to the ends of said cylinder to act on both sides of the piston for effecting reciprocation of said piston one of said passages having only a single mouth or supply port alternately opened and closed by said shank and operative to conduct motive fluid to one side of said piston to effect a rearward stroke of the latter, and means normally tending to open by pressure and held closed by the motive fluid at the other side of said piston to maintain said passage closed during a substantial portion of the forward piston stroke.

1,679,129. FORGING MACHINE. FRANK A. HALLECK, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed July 30, 1920. Serial No. 400,121. 47 Claims. (Cl. 76—5.)



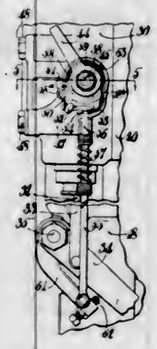
1. In a drill sharpening machine, a stationary jaw, a movable jaw, said jaws constituting a vise, and cooperating gaging dies mounted on said jaws and operated upon relative movement therebetween.

18. A forging machine having clamping means, relatively movable cooperating piston and cylinder elements

for producing movement of the same to clamping position and return movement to separated position, and means for limiting movement thereof including a further piston and cylinder adapted to act as a dashpot, said latter piston being movable with said other piston.

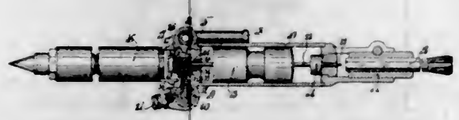
20. A forging machine comprising a base, clamping means carried thereby and means for actuating the same including relatively movable piston and cylinder elements adapted to remain in a predetermined fixed position when said clamping means is operative, and means for lubricating said elements including means having relatively movable oil supply passages adapted to allow oil flow from one to the other only while said elements occupy said predetermined position.

1,679,130. PERCUSSIVE TOOL. HENRY H. MERCER, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 13, 1921. Serial No. 477,040. 20 Claims. (Cl. 121—16.)



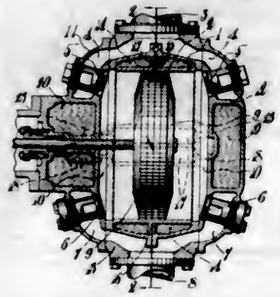
1. The combination with a percussive mechanism including relatively reciprocable cylinder and piston elements, a tool actuated thereby, and fluid distribution means for the normal operation of said elements, of means controlled by an element of said distribution means for automatically checking an abnormal movement of said piston when a decreasing resistance is encountered by said tool, said element of said distribution means being adapted to effect a striking action, said automatic checking means including an element automatically released by said striking element upon abnormal movement of said piston.

1,679,131. CLEANSING MEANS FOR ROCK DRILLS. JAMES G. GRAHAM, Butte, Mont., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed July 25, 1921. Serial No. 487,442. 13 Claims. (Cl. 121—8.)



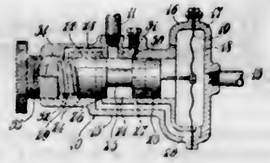
1. In a drilling mechanism, the combination with means for detachably holding a hollow drill steel and means for operating upon said steel, of a longitudinally disposed tube normally adapted to be telescopically received freely into the bore of said steel for supplying cleansing fluid to the latter, a head block, and a gland carried by said head block and in which the rear end of said tube is supported for longitudinal movement in the event of endwise engagement of the tube by a steel.

1,679,132. VACUUM PUMP. FRED D. HOLDSWORTH, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 19, 1921. Serial No. 508,858. 13 Claims. (Cl. 230—188.)



1. In a pump, a cylinder, a piston therein, a plural chambered jacket surrounding said cylinder, coaxial chambers in the heads of said cylinder, and means for establishing a flow of cooling medium through said jacket and chambers including connections between one part of said jacket and said chambers and from said chambers to the other part of said jacket, and a branch passage leading from said chambers into one of the parts of said jacket.

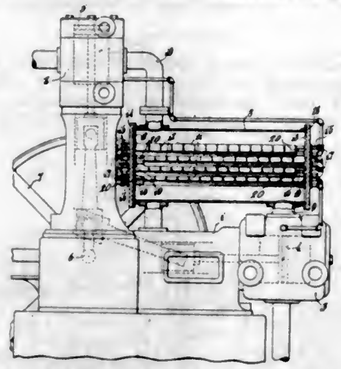
1,679,133. COMPRESSOR-CONTROLLING MECHANISM. LOUIS A. MAXSON, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Jan. 6, 1922. Serial No. 527,514. 28 Claims. (Cl. 137—153.)



1. In a compressor controlling mechanism, a member movable in opposite directions respectively to effect loading and unloading of a compressor, compressor discharge pressure controlled means for moving it in one direction, and means adapted to be supplied with pressure fluid for accelerating a portion of one of its movements, said supply being cut off during the whole of the other movement.

1,679,134. HEAT-EXCHANGE DEVICE. SVEN THEODOR NELSON, Oak Park, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 27, 1922. Serial No. 571,158. 9 Claims. (Cl. 257—240.)

1. An intercooler comprising a casing and a plurality of removable flat rectangular cooling fluid containing members arranged in parallel relation and connected in series, said members dividing the interior of said casing into a plurality of parallel spaces, successive spaces being con-



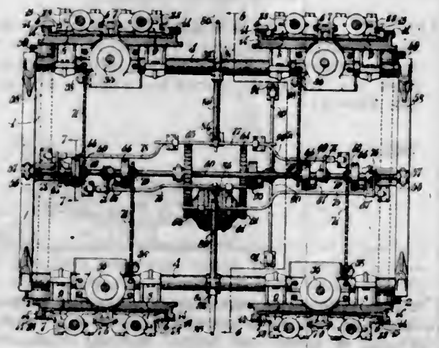
nected at opposite ends, and means including detachable end supports for said cooling members for permitting the removal of said members longitudinally from said casing.

1,679,135. CUTTER CHAIN. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 15, 1922. Serial No. 607,257. 8 Claims. (Cl. 262—33.)



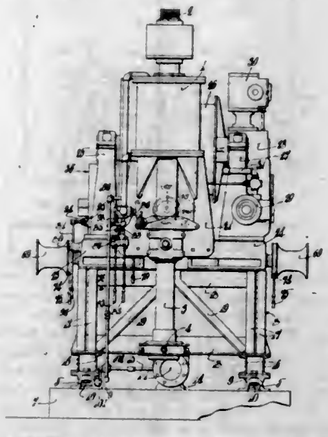
1. A cutter link having a bit receiving passage and bit securing means adapted to act upon a bit including a bit pivot engaging one edge of the bit, a cooperating bit abutment engaging the opposite edge thereof, and a bit holding means on the opposite side of said pivot from said abutment engaging the same edge engaging said abutment and spaced from said pivot by a greater distance than the distance between said pivot and abutment, said pivot comprising a rounded surface, said abutment a flat surface, and said holding means a set screw.

1,679,136. CHANNELER MECHANISM. HENRY H. MERCER, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Feb. 7, 1923. Serial No. 617,582. 12 Claims. (Cl. 262—18.)



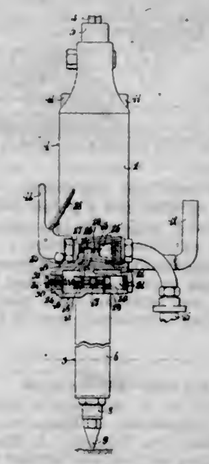
1. In a channeling mechanism, a truck, a plurality of channeling mechanisms thereon, a arranged one at each corner of said truck, a single motor disposed substantially centrally of said truck, and connections with said motor for feeding said truck and for causing feed of any of said channeling mechanisms toward the work while said channeling mechanisms are operative.

1,679,137. DRILLING APPARATUS. FRANK A. HALLECK, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Feb. 19, 1923. Serial No. 619,835. 76 Claims. (Cl. 255—22.)



1. In a drilling apparatus, a supporting base having a substantially horizontal guideway, a frame slidably guided on said base, hole drilling mechanism carried on said frame and including drill rod rotating mechanism and power operated feeding mechanism for axially feeding the drill rod, and means actuated from the same power source as said feeding mechanism for adjusting said frame and drilling mechanism bodily laterally relative to the guideway on said base and transversely relative to the drill hole.

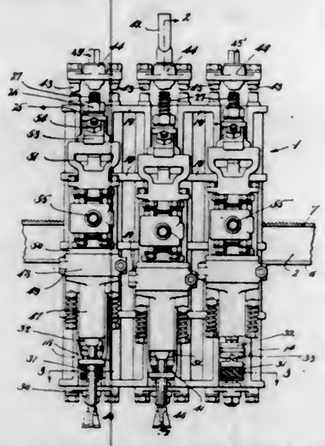
1,679,138. FEEDING MECHANISM. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed May 24, 1923. Serial No. 641,094. 14 Claims. (Cl. 121—9.)



1. In a drilling apparatus, the combination with a drilling motor, pressure fluid actuated feeding means therefor, and means for supplying pressure fluid to the

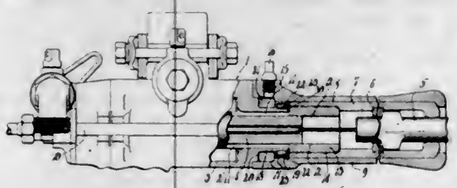
latter, of pressure fluid controlled means controlled by pressure variations in said feeding means for automatically arresting an abnormal rate of feeding movement when the resistance on said feeding means is decreased.

1,679,139. DRILLING MECHANISM. ELMER G. GARTIN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar. 24, 1924. Serial No. 701,368. 6 Claims. (Cl. 255—45.)



1. A rock drilling mechanism comprising a plurality of unitary percussive tools adapted to use drill steels of different length, and means for positively feeding said tools toward the work including means operative to adjust the relative position of the tools whereby the same may drill holes of uniform depth and including feeding means having an operating element common to all of said tools.

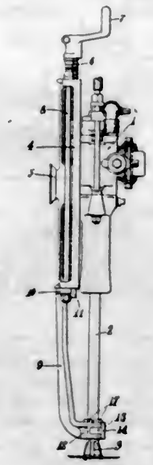
1,679,140. DRILLING MECHANISM. JAMES G. GRAHAM, Butte, Mont., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed May 7, 1924. Serial No. 711,530. 11 Claims. (Cl. 121—13.)



1. In a rock drill, the combination with an impact motor having a cylinder, and a piston reciprocable therein having a forwardly projecting extension, of lubricating means for said extension comprising a lubricant reservoir formed in said cylinder at the forward end thereof, a passage formed in said cylinder and connecting said reservoir with said extension, and means comprising a valve for providing intermittent flow of lubricant through said passage.

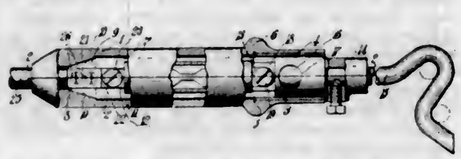
1,679,141. DRILLING MECHANISM. ELMER G. GARTIN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 27, 1924. Serial No. 746,243. 6 Claims. (Cl. 255—51.)

1. In a drilling mechanism, the combination with a support on which the drill is longitudinally movable, said support including side rods to hold the parts thereof in operative assembled relation, and a drill steel carried by the drill, of guiding means for the drill steel including an elongated supporting arm secured to the



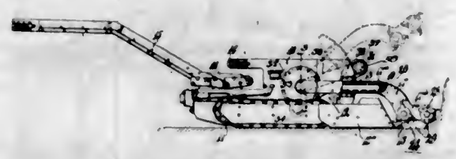
forward end of said support by said side rods out of the path of movement of the drill whereby the forward end of the latter may be moved a substantial distance in advance of said support.

1,679,142. ELECTRICAL APPARATUS. CHARLES W. WYMAN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 29, 1924. Serial No. 758,755. 9 Claims. (Cl. 200—115.5.)



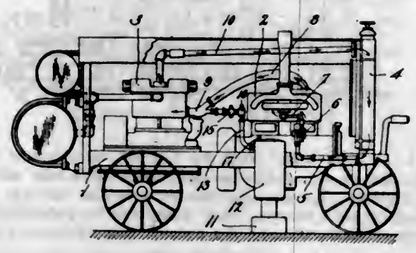
1. A combined trolley clip handle and fuse container having a fuse chamber therein provided with an opening leading therefrom, and substantially flat diverging walls extending in the same general transverse direction connecting the walls of said opening and chamber.

1,679,143. LOADING MECHANISM. WADE H. WINEMAN, Michigan, City, Ind., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Jan. 23, 1926. Serial No. 83,367. 11 Claims. (Cl. 198—9.)



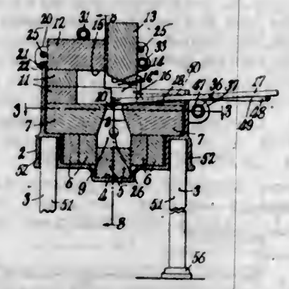
1. The combination with loading mechanism comprising a body and a conveyor thereon having a material receiving end, of means for feeding material towards said end comprising a plurality of cooperating rotary material engaging devices movable about separate axes disposed transversely of the receiving end, said devices being connected to the body by means providing for vertical movement thereof, one of said devices receiving material brought back by the other device and moving the material onto the receiving end of said conveyor.

1,679,144. COOLING SYSTEM. FRED D. HOLDSWORTH, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Aug. 20, 1926. Serial No. 130,526. 12 Claims. (Cl. 123—174.)



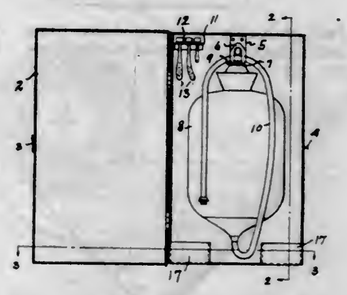
1. In a portable compressor outfit, the combination with a gasoline engine, an air compressor driven thereby, and a cooling system for said engine and compressor including a fluid connection extending between the same, of auxiliary heating means for the fluid in said system including means interposed in said fluid connection for introducing heat into said fluid from an auxiliary source.

1,679,145. FURNACE. WADE H. WINEMAN, Michigan City, Ind., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 1, 1927. Serial No. 180,254. 13 Claims. (Cl. 263—9.)



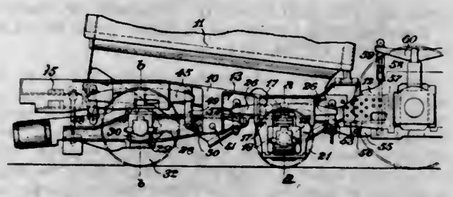
1. In a furnace, an elongated combustion chamber having a relatively restricted slotted top opening, an elongated heating chamber of uniform cross section directly above and substantially coextensive with said combustion chamber with which said restricted opening communicates, and a laterally located flue formed in one side of said heating chamber through which the articles to be heated are insertible and which constitutes the sole vent from the heating chamber.

1,679,146. DOUCHE CASE. GRADY S. APPLING, El Campo, Tex., assignor of one-half to Nadine Rivers Appling, Hollywood, Calif. Filed Sept. 23, 1925. Serial No. 58,061. 1 Claim. (Cl. 206—69.)



A douche case including a box like body, a cover hinged thereto, releasable interlocking means carried by the body and the free edge of the cover for securing the cover in closed position, a wide metal strap secured to the inside wall of the back of the body at its top whose free end is upturned forming a hook, the central part of the strap being formed with a tong whose lower end is free and upturned forming a hook, a rack secured to the wall of said body adjacent said strap said rack being provided with a plurality of deep notches, the central part of the top and bottom of the body being perforated and a receptacle on each side of the perforations of said bottom.

1,679,147. LOCOMOTIVE TRAILING TRUCK. GEORGE B. ASHWORTH, Amsterdam, N. Y. Filed Aug. 18, 1926. Serial No. 129,916. 17 Claims. (Cl. 105—174.)



1. In a locomotive, the combination of a main frame; a cradle secured thereto; a pair of idler wheels, mounted on an axle rotating in bearings in the cradle; means for permitting lateral movement of said idler wheels on curves; and a trailing truck connected to said cradle.

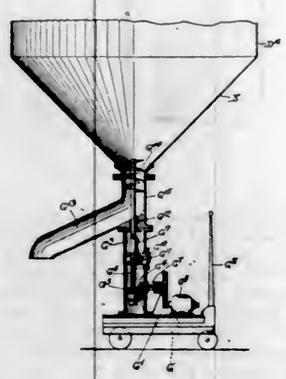
1,679,148. TROUSERS. BENJAMIN BASSKIN, St. Louis, Mo. Filed Mar. 12, 1925. Serial No. 14,879. 4 Claims. (Cl. 2—234.)



4. In the art of making trousers, the process comprising placing a piece of cloth and lining containing buttonholes against the outer face of the trousers cloth with the lining outside and with the edges of the piece and lining

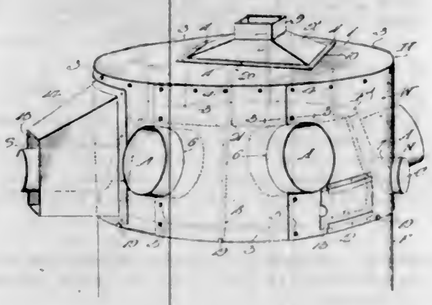
along the edge of the trousers opening, placing another piece of lining against the inner face of the trousers cloth and along the trousers opening, stitching along the alined edges of the pieces of cloth and lining and trousers, turning the attached piece and its lining along the seam against the other lining piece and securing the same.

1,679,149. PROCESS OF HYDRATING LIME. CHRISTIAN P. BERG, Chicago, Ill. Filed Feb. 8, 1926. Serial No. 86,700. 11 Claims. (Cl. 23—188.)



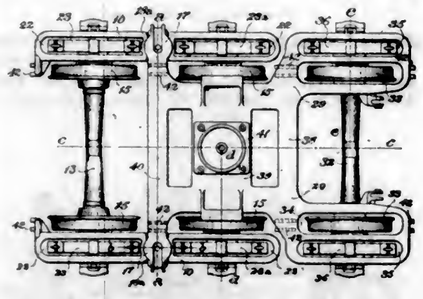
2. The method of hydrating lime which includes mixing lime and water, holding the mixture so formed in a curing zone, draining from the mixture a substantial proportion of the water therein contained and passing through the mixture additional volumes of water, and taking off the putty so cured.

1,679,150. FURNACE HOOD. NICHOLAS W. BETZOLD, Brainerd, Minn. Filed Apr. 6, 1925. Serial No. 21,148. 3 Claims. (Cl. 126—114.)



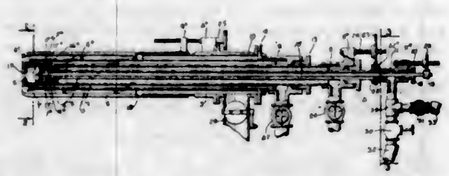
1. A furnace hood adapted to extend over and to surround the upper end portion of a furnace, said hood having a hot air outlet and a cool air inlet, and a plurality of hangers within said hood for supporting the same, each hanger being connected at its lower end to the hood, and having a hook portion to rest on the upper end of the furnace and having a portion projecting upwardly from said hook portion into contact with the top of the hood to prevent sagging of the latter.

1,679,151. TRUCK FOR RAILROAD VEHICLES. JAMES G. BLUNT, Schenectady, N. Y. Filed Feb. 15, 1927. Serial No. 168,286. 12 Claims. (Cl. 105—195.)



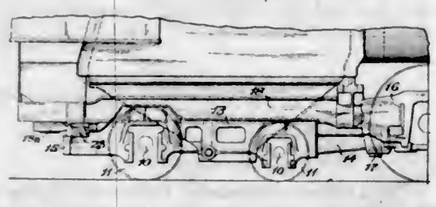
1. In a six wheel truck for railroad vehicles, the combination of a two axle section; and a one axle section, articulated thereto, the two axle section having independent side frames, each formed with pedestals and pockets for housing spring equalizing mechanism.

1,679,152. HYDROCARBON BURNER. GEORGE W. BOWEN, San Diego, Calif. Filed Aug. 11, 1926. Serial No. 128,673. 8 Claims. (Cl. 158—74.)



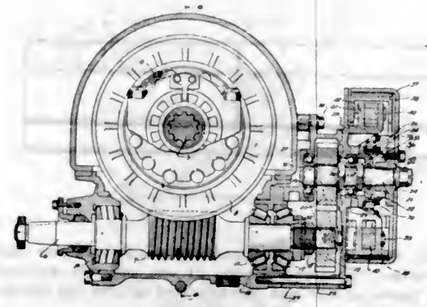
1. In a hydrocarbon burner, oil, steam and air conductors positioned concentrically with respect to each other, a mixing chamber positioned at the coincident ends of said oil and steam conductors, a nozzle positioned at one end of said mixing chamber, a cylinder steam valve reciprocally mounted in said mixing chamber adapted to cover and uncover orifices in said steam conductor and provided with oil ports therein and with a valve seat at its forward end, and an oil valve member reciprocally mounted in said mixing chamber adapted to engage the seat at the forward end of said steam valve.

1,679,153. LOCOMOTIVE TRUCK. ALFRED W. BRUCE, New York, N. Y. Filed Oct. 15, 1926. Serial No. 141,811. 13 Claims. (Cl. 105—174.)



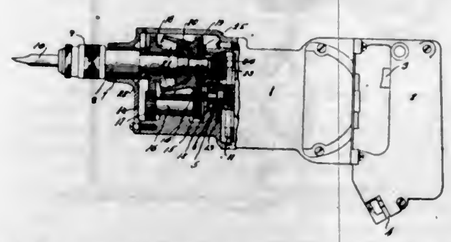
1. In a centering device for railroad vehicles, the combination of means for carrying, on curved track, a portion of the load of the vehicle; and means for carrying, on tangent track, a portion of the load borne by said first mentioned means on curved track, said last mentioned means also functioning, when carrying the load, to resist lateral vibrations of the vehicle.

1,679,154. TRANSMISSION BRAKE MECHANISM. NIELS A. CHRISTENSEN, Cleveland, Ohio. Filed Apr. 24, 1926. Serial No. 104,323. 4 Claims. (Cl. 188—76.)



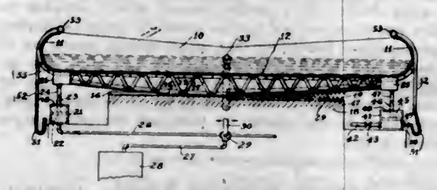
1. In brake mechanism for vehicles, the combination with the rear axle, the pinion shaft and the gearing connection between said shaft and axle, of a brake shaft having a transmission connection with said pinion shaft separate from said gearing connection, and brake mechanism associated with said brake shaft.

1,679,155. POWER HAND TOOL. EDWIN L. CONNELL, Cleveland, Ohio, assignor to The Van Dorn Electric Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 26, 1926. Serial No. 125,002. 4 Claims. (Cl. 144—32.)



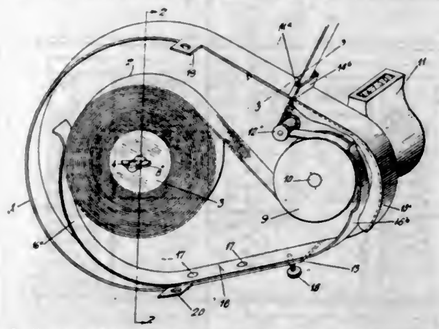
1. In a tool of the class described, motor means, a pair of members having driving surfaces, driving connections between said motor means and said members whereby said members are driven at differing speeds, a tool carrying member, and planetary elements engageable between said driving surfaces and having driving connection with said tool carrying member.

1,679,156. ARTIFICIAL-SURF BATHING POOL. WILLIAM FISCH, Atlanta, Ga. Filed Nov. 22, 1926. Serial No. 150,108. 19 Claims. (Cl. 4—178.)



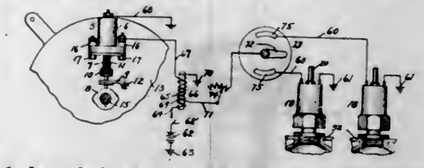
1. A bathing pool comprising an elongated tank, longitudinally extending truss rockers disposed beneath the tank, power means to impart a rocking motion to the tank to displace water therein, means to convert the rush of displaced water into a breaking wave, and means to control the movement of the tank.

1,679,157. MEASURING DEVICE. MAX GILBERT, Bronx, N. Y., assignor to Gilbert Bindometer Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 4, 1926. Serial No. 139,285. 7 Claims. (Cl. 33—134.)



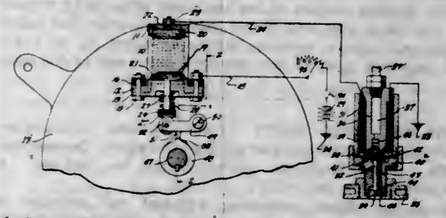
1. In a device of the character described, a normally closed and locked casing provided with an outlet mouth, means for supporting within the casing a roll of braid for rotation, a measuring indicator mounted on the exterior of the casing and having an operating shaft extending into the interior thereof, a measuring wheel secured to the indicator shaft and positioned within the casing, said wheel being positioned so that braid extending from the roll to the outlet mouth will be looped about the measuring wheel, means for holding the braid firmly against the circumference of the measuring wheel to preclude slipping of the braid with respect to said wheel, and means for braking the roll of braid.

1,679,158. FUEL-INJECTION SYSTEM. LOUIS O. FRENCH, Milwaukee, Wis. Filed Apr. 21, 1926. Serial No. 103,561. 6 Claims. (Cl. 123—32.)



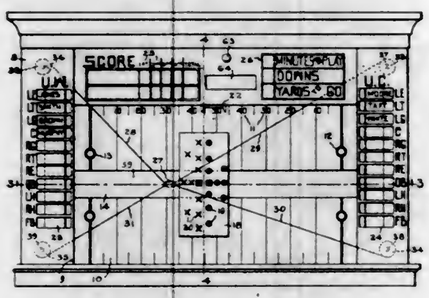
1. In a fuel injection system for internal combustion engines, the combination of a primary control circuit including a variable resistance, a secondary circuit inductively associated with said primary circuit and periodically influenced thereby in cyclic synchronism with the engine, an electromagnetically controlled fuel-metering device controlling the amount of fuel delivered to the engine and having its control electromagnet included in said secondary circuit, and means for varying said resistance to vary the action of said control electromagnet and thus cause said metering device to vary the amount of fuel charges delivered to the engine.

1,679,159. CIRCUIT-CONTROL MECHANISM FOR INTERNAL-COMBUSTION ENGINES. LOUIS O. FRENCH, Milwaukee, Wis. Filed Feb. 23, 1927. Serial No. 170,328. 15 Claims. (Cl. 123—32.)



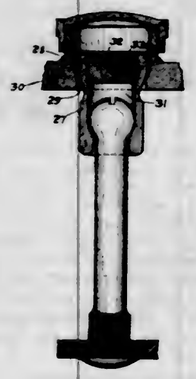
1. In a timer for internal combustion engines, the combination of a variable resistance, and engine-controlled means for periodically varying said resistance.

1,679,160. FOOTBALL-GAME-REPORTING DEVICE. NYMAN E. HELLAND, CLIFFORD C. HARRISON, and OTTO A. BIERBRAUER, Seattle, Wash. Filed Apr. 9, 1925. Serial No. 21,965. 10 Claims. (Cl. 116—120.)



9. A football game reporting device embodying a board having a football field illustrated thereon; a slot extending longitudinally of said board; a "field of play" mounting means operatively disposed in said slot; a "field of play" means pivotally mounted upon and releasably fixedly disposed upon said mounting means; a slot closing curtain secured to said "field of play" mounting means, whereby said slot may be maintained closed; a "line-man" means slidably disposed upon a upper edge of said board; and a symbol of a football movable over the face of said board.

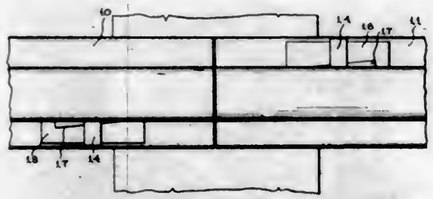
1,679,161. FLEXIBLE STAY BOLT. JULIUS KINDERVATER, Richmond, Va. Filed June 10, 1926. Serial No. 115,029. 6 Claims. (Cl. 85—15.)



1. In a boiler staybolt structure, a bolt adapted to be attached at its inner end to the fire box wall and having a spherical outer end, and a sleeve member having an exterior bearing surface at its outer end spherically formed to provide a ball and socket connection with the boiler shell, said sleeve member having a socket at its other end in which is fitted the spherical outer end of the bolt.

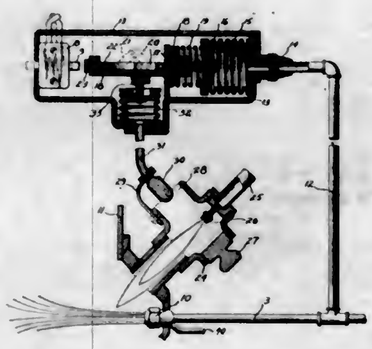
1,679,162. RAIL JOINT. OSB LOCKARD, Commodore, Pa., assignor of one-half to Max Crawford, Commodore, Pa. Filed Sept. 29, 1926. Serial No. 138,465. 2 Claims. (Cl. 238—230.)

1. A rail joint comprising adjacent rail sections of which the web portions are provided with longitudinally extending tongues, the tongue of one section overlapping the web of the adjacent section, the tongues being formed with lateral extensions projecting through slots in the rail webs, said extensions having slots, and keys insertable



in the slots in the extensions and notched on one edge to engage the extension slots at one end and provided with lateral projections opposite said notches for engagement with the slots in the rail webs.

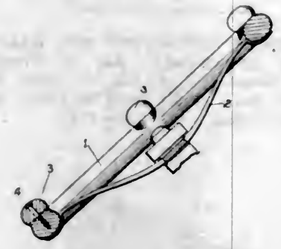
1,679,163. AUTOMATIC CUT-OFF DEVICE FOR FUEL-OIL BURNERS. DORR R. MARTIN, Detroit, Mich. Filed Apr. 22, 1926. Serial No. 103,832. 6 Claims. (Cl. 158—42.4.)



1. The combination with a furnace, of a fuel oil burner having a fuel nozzle discharging into the furnace, electrically controlled means for discharging oil through the said nozzle, a switch in the circuit for the said electrically controlled means, a pressure actuated device caused to operate upon operation of the electrically controlled means to discharge the oil into the furnace, the said pressure actuated device being arranged to open the switch at a certain time period subsequent to discharge of oil into the furnace, a conduit open to the furnace, a pilot flame extending through the conduit and adapted to ignite the oil when discharged, a device sensitive to change in temperature positioned adjacent the pilot flame and when heated to a predetermined extent adapted to prevent switch actuation by the pressure actuated device, the arrangement providing that, upon normal operation of the device and ignition of the fuel by the pilot, the increase of pressure within the furnace at the time of ignition causes heat of the pilot flame to be forced backwardly through the conduit to influence the temperature sensitive device.

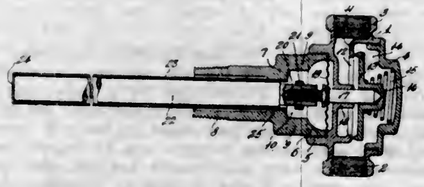
1,679,164. VEHICLE STEERING WHEEL. ARTHUR C. MCBRIDE, San Diego, Calif. Filed June 2, 1925. Serial No. 34,315. 3 Claims. (Cl. 74—33.)

1. A vehicle steering wheel provided at its one side with a relatively flat rounded knob adapted to conform with and extend into the palm of the hand of the person operating the wheel, the distance from the outer end of the knob to the back side of the wheel being such as to



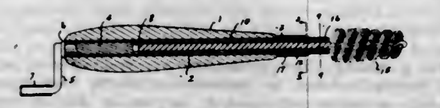
permit the fingers to grip the back side of the wheel while the palm of the hand rests on the outer end of the knob.

1,679,165. THERMOSTATIC VALVE. CLARENCE H. MORROW, Cleveland, Ohio, assignor to The Hotstream Heater Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 10, 1925. Serial No. 49,384. 3 Claims. (Cl. 236—102.)



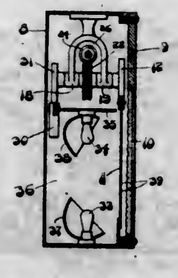
1. Thermostatic mechanism comprising a valve body having a partition dividing it into inlet and discharge chambers, said partition being provided with a gas opening and valve seat and said casing being provided with an opening in axial alignment with said valve seat, a skirt surrounding said casing opening and providing a diaphragm seat, a supporting structure comprising a sleeve, a skirt ring and connecting webs therebetween, said ring being adapted for securement to said skirt, a diaphragm located between said ring and said skirt diaphragm seat, a gas valve within said body, a thermostat mounted in the sleeve of the support and adapted for axial movement with respect to said sleeve portion, an actuating member between said thermostat and said gas valve and comprising a rod engaging the gas valve and sealed through said diaphragm, and adjustable means carried by said rod and arranged between it and said thermostatic element.

1,679,166. ROTARY TOOTHBRUSH. WALTER S. MURDOCK, Houston, Tex. Filed Nov. 22, 1924. Serial No. 751,658. 13 Claims. (Cl. 15—25.)



1. An implement of the character described including a handle having a longitudinal bore, a metallic lining in the bore forming a bearing, a shaft in said bearing, means for rotating the shaft, a brush carried by and detachable from the shaft, said bearing being extended, at one end, beyond the handle, a lip piece fixed to the brush and fitting over said extended end.

1,679,167. SIGN. THADDENS A. NOLAN, Cincinnati, Ohio. Filed Nov. 15, 1926. Serial No. 148,580. 3 Claims. (Cl. 40—133.)



1. A sign comprising a rough surfaced light permeable sight portion, a perforated screen adjacent to and located to one side of the sight portion, a source of light located to throw light on the side of the screen opposite the sight portion, means adjacent to and covering the sight portion having characters permitting the passage of light conforming to the shape of the characters, one of said foregoing elements being capable of reciprocating movement, and means to impart said movement to said movable element.

1,679,168. ADJUSTABLE STILT. JAMES F. O'BRIEN, Seattle, Wash. Filed Feb. 15, 1926. Serial No. 88,200. 2 Claims. (Cl. 272—70.2.)

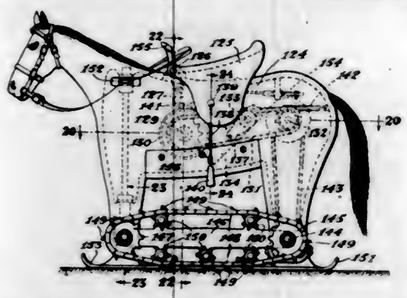


1. A step for an adjustable stilt stamped from a single piece of sheet metal and having an aperture formed therein adjacent one end thereof, to accommodate a pole and the like, one edge of said aperture having a series of pole engaging serrations, the material of the step being angularly and downwardly bent adjacent said aperture to form an arcuate foot engaging portion and the angularly bent portion return-bent to form a pole abutting heel thereat and a tread portion for said step extending outwardly therefrom, said pole abutting heel having a series of pole engaging serrations formed therein.

1,679,169. TOY VEHICLE. JAMES F. O'BRIEN, Seattle, Wash. Filed Mar. 15, 1926. Serial No. 94,745. 5 Claims. (Cl. 208—42.)

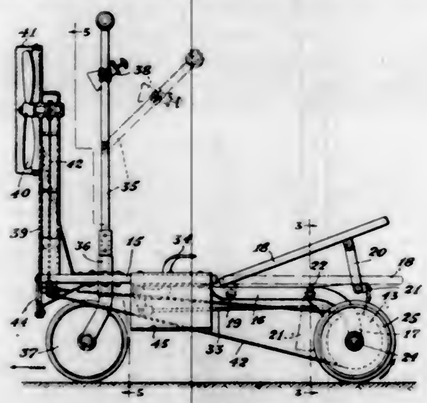
1. In a toy vehicle, in combination, a mobile body, a manually operable oscillative seat attached thereto.

spring retracted ratchet propelling mechanism for said body interconnected with said seat for actuation there-



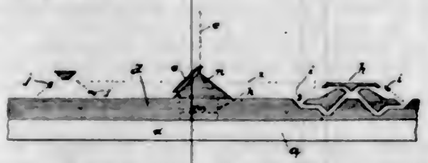
by, and manually operable flexible stirrups connected to said propelling mechanism for alternately actuating the same relative to the seat actuation thereof.

1,679,170. VELOCIPEDE. JAMES F. O'BRIEN, Seattle, Wash. Filed Mar. 25, 1926. Serial No. 97,199. 4 Claims. (Cl. 208—161.)



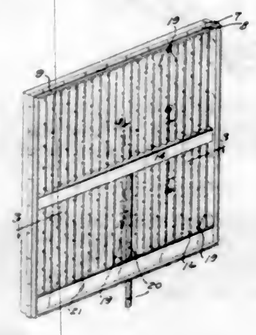
1. In a velocipede, in combination, a mobile body having front steering and rear driving wheels, a manually operable oscillative treadle attached to said body, mechanism interconnecting said rear driving wheels and treadle for actuation by the latter to propel the body in a forward direction, and a screw propeller rotatively mounted upon one end of said body for actuation by the mechanism thereof.

1,679,171. CLEANING ATTACHMENT FOR CIRCULAR-KNITTING MACHINES. THETUS D. PICKELL, New York, N. Y., assignor to A. V. Victorius & Company, New York, N. Y., a Corporation of New York. Filed Aug. 10, 1926. Serial No. 128,355. 4 Claims. (Cl. 66—168.)



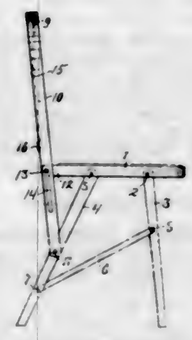
1. A cleaning attachment for circular knitting machines comprising, in combination, needles, knitting cams, picker cams adapted to lift certain of the needles to an inactive position and means adapted to lift all of the needles to a height not less than that to which certain of the needles are adapted to be lifted by the picker cams.

1,679,172. STEAM APPLICATOR FOR WALL-PAPER-REMOVING APPARATUS. RAY G. PIETERS, Chicago, Ill., assignor of one-half to Albert N. Terry, Minneapolis, Minn. Filed June 21, 1926. Serial No. 117,397. 5 Claims. (Cl. 126—271.1.)



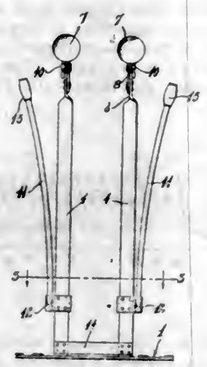
1. An applicator of the kind described comprising a casing, a hollow reinforcing rib affording a steam distributing chamber, a connection for a steam supply member on said chamber, a corrugated sheet in said casing having its corrugations closed by the back thereof to afford lateral steam conduits each having one end in communication with said chamber and the other end closed, said conduits having a plurality of orifices for the escape of steam.

1,679,173. FOLDING CHAIR. WILLIAM C. RABTETTEH, Fort Wayne, Ind. Filed Dec. 3, 1925. Serial No. 72,886. 3 Claims. (Cl. 155—139.)



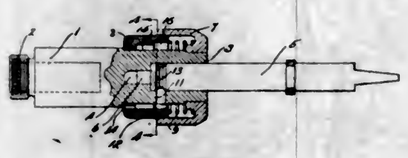
3. A folding chair comprising a seat frame; a pair of folding fore-legs in connection with the seat frame in the forward part thereof; a pair of folding rear legs in connection with the seat frame at a point therein spaced from the connection of the forelegs with said frame; a strut connecting each rear leg with the corresponding foreleg and a back member having pivotal connection with said rear legs and a connection with the rear end of the seat frame admitting of limited sliding movement therebetween.

1,679,174. BODY-PUNCH RESISTANCE DEVELOPER. EDWIN H. RICHARDS and FRANK A. RICHARDS, Pomona, Calif. Filed Mar. 12, 1927. Serial No. 174,777. 5 Claims. (Cl. 272—57.)



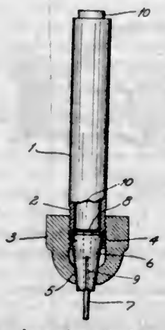
1. A body punch resistance developer comprising a platform, a spring arm rising from the platform, means on said spring arm operable by the user to flex said spring arm, and an impact block on said spring arm, and means to adjust said impact block on the spring arm.

1,679,175. CHUCK. FRANKLIN SCHNEIDER and EDWIN L. CONNELL, Cleveland, Ohio, assignors to The Van Dorn Electric Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 26, 1926. Serial No. 131,692. 4 Claims. (Cl. 279—74.)



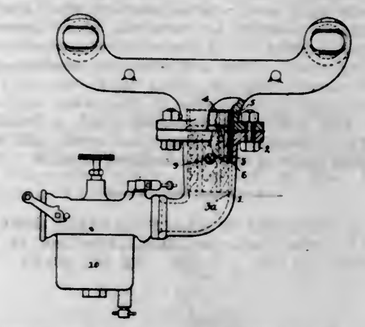
1. In a chuck, a spindle having an axial bit receiving bore, means for preventing rotation of a bit in said bore, said spindle being also provided with an abutment and a shoulder spaced therefrom, a sleeve movable upon said spindle between said abutment and said shoulder, a spring operative between said sleeve and said abutment to normally maintain said sleeve against said shoulder, said spindle being also provided with a radial opening, a headed bit retaining member arranged in said opening and adapted to project into said axial bore for engagement with a bit therein, said sleeve being provided with a longitudinal groove adapted to clear the head of said bit retaining member but to maintain said member projecting into said bore, said sleeve being also provided with an annular groove intersecting said longitudinal groove and adapted to allow relative rotation of said sleeve and said spindle subject to prior longitudinal movement of said sleeve against said spring, said sleeve being also provided with an arcuate groove circumferentially spaced from said longitudinal groove and communicating with said annular groove, said arcuate groove being of sufficient depth to allow said bit retaining member, when aligned therewith, to clear said axial bore.

1,679,176. PUNCH. PHILIPP SCHNEIDER, St. Louis, Mo. Filed Feb. 21, 1927. Serial No. 169,904. 1 Claim. (Cl. 164—94.)



A punch of the class described, comprising a hollow frusto-conical-shaped bit holder having its lower portion longitudinally slotted adapted to fit a conic opening in a nut, a screw-threaded, hollow, cylindrical portion adapted to be screwed into said nut thereby tending to force the said frusto-conical bit holder outwardly, a solid cylindrical anvil adapted to reciprocate in said hollow, screw-threaded, cylindrical portion when struck by a hammer thereby imparting energy to a bit enclosed in said frusto-conical bit holder, a bit having a flanged head, said bit being adapted to be rigidly held in said frusto-conical bit holder when said cylindrical body portion is screwed into said nut, a nut having its upper portion screw-threaded adapted to engage the screw-threaded portion of the said cylindrical portion, and an opening in its lower portion having sloping walls adapted to fit the periphery of the said frusto-cone-shaped, slotted bit holder and adapted to rigidly hold a bit when said cylindrical portion is tightly screwed into said nut.

1,679,177. MIXING DEVICE. WILLIAM SEYMOUR, Paterson, N. J. Filed Feb. 10, 1926. Serial No. 87,225. 1 Claim. (Cl. 48—180.)

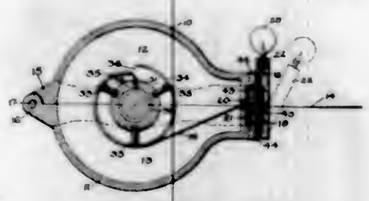


A gaseous fuel mixing device adapted to be positioned in the intake manifold of an internal combustion engine comprising, in combination, a body having a rough-surfaced bore therethrough, a spiral-ribbed element occupying and having its ribs at their outer edges in contact with the rough surface of the bore, said ribs and the roughened surface of the bore forming a spiral passage one side of which is constituted by said surface.

1,679,178. TAPE CASING. NATHAN H. SHILLMAN, Baltimore, Md. Filed Jan. 29, 1926. Serial No. 84,563. 7 Claims. (Cl. 242—84.8.)

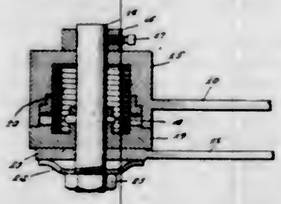
1. A tape holding device comprising a pair of diametrically opposed substantially similar members adapted when fitted together to form a housing for a tape, integral

bearing bosses of unequal diameters disposed centrally of said members and a rotating element carried by said bear-



ings on journals seated in said bearings, the inner walls of said bearings being provided with grooves for receiving a lubricant.

1,679,179. REBOUND DAMPER. WILLIAM CARLETON STARKEY, Indianapolis, Ind., assignor to L. G. S. Devices Corporation, Indianapolis, Ind., a Corporation of Indiana. Filed June 6, 1925. Serial No. 35,281. 2 Claims. (Cl. 188—130.)



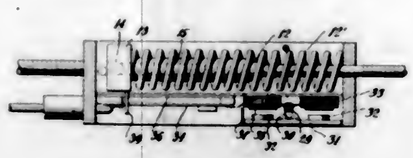
1. A rebound check for automobiles, comprising two friction brake members, a third member rotatable relatively to said brake members, means for connecting said third member and one of said brake members respectively with two parts of an automobile which separate on rebound whereby said brake member and said third member will rotate relatively to each other when said two automobile parts move relatively to each other, that one of said brake members not connected to an automobile part being provided with a central circular recess, and a coil spring located within said recess and bearing against the wall thereof, said coil spring being operatively connected to said third member so that when said third member and said recessed member tend to rotate on rebound in a direction to unwind said spring said spring will expand and lock said two members together.

1,679,180. PROCESS OF MANUFACTURING JEWELRY. JOHN P. STERK, Dollar Bay, Mich. Filed Jan. 18, 1927. Serial No. 161,851. 2 Claims. (Cl. 29—160.6.)



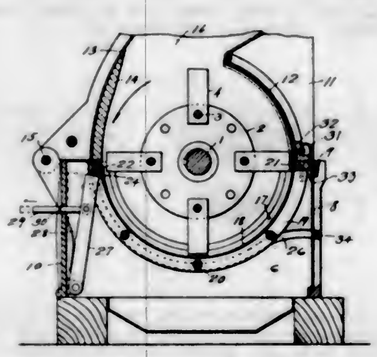
1. A process of forming articles of jewelry consisting of first forming segments from plates of different metals so that the segments may be placed in edge to edge relationship, then placing a drop of solder on one face of the assembled segments and simultaneously imbedding the head of a supporting element in the drop of solder.

1,679,181. SPRING CONTROL. KARL O. SCHAUMAN, STIRLING R. YANCEY, and JOSE L. MIFSUD, New York, N. Y., assignors to Sure-Guard Corporation, New York, N. Y., a Corporation of New York. Filed June 23, 1927. Serial No. 200,800. 10 Claims. (Cl. 188—167.)



5. A spring control comprising a casing having means for attachment to a support, a slide rod in the casing, a tension spring in the casing acting against an abutment on the slide rod, a trigger mechanism for locking the spring in retracted position, electromagnetic means for releasing the trigger mechanism, an electric circuit and means for opening and closing said circuit by the movement of the spring.

1,679,182. GRINDER. HARRY J. SHELTON, University City, Mo. Filed Nov. 7, 1927. Serial No. 231,547. 6 Claims. (Cl. 82—11.)

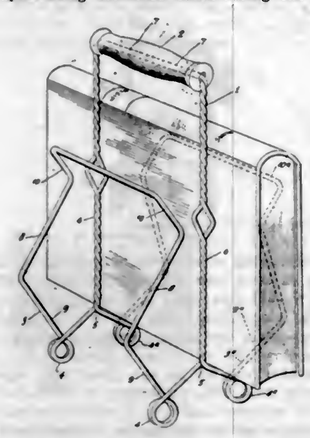


1. A grinder of the class described comprising rotary hammers, a casing having an end door and side casing grooves adjacent to the hammers, an arcuate screen and supporting frame detachably mounted in the casing adjacent to the hammers—one end of said frame having side projections engaging the side casing grooves and forming a sliding pivotal engagement with the casing allowing withdrawal through the end opening—and means to secure the screen and frame in operative position.

1,679,183. BOOK CARRIER. IGNATZ SIDON, Astoria, N. Y. Filed Mar. 18, 1927. Serial No. 176,356. 2 Claims. (Cl. 224—45.)

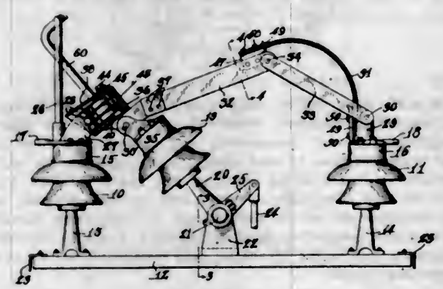
1. In a book holder, a pair of wire loops constituting opposed clamping jaws, the wires from which said loops are formed being provided at the bases of the loops with

spring coils and the wires of the two loops being extended from said coils toward one another and twisted together to form upstanding members constituting the side mem-



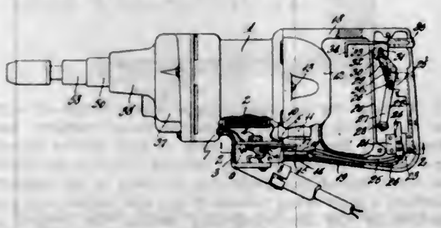
bers of a bail, the upper portions of said side members being bent toward one another and secured together to form a handle to the bail.

1,679,184. DISCONNECTING SWITCH. ROBERT R. STEVENSON, Philadelphia, Pa., assignor to Electrical Development & Machine Company, Philadelphia, Pa., a Corporation of Delaware. Filed Sept. 20, 1923. Serial No. 663,767. 16 Claims. (Cl. 200—48.)



16. In an electric switch, a sectional contact arm, a contact mounted at the free end of a section of said arm, a hood housing said contact, and a member jointed to said section to flex the latter downward in open circuit position.

1,679,185. SCREW DRIVER. BURTON W. SWEET, Cleveland, Ohio, assignor to The Van Dorn Electric Tool Company, Cleveland, Ohio. Filed July 3, 1925. Serial No. 41,453. 2 Claims. (Cl. 172—36.)

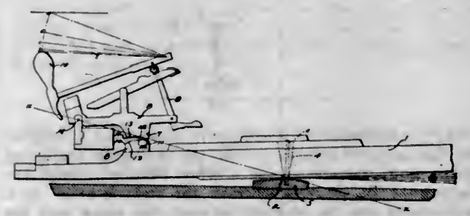


1. In a motor hand tool, a main casing, a motor therein, a work spindle driven thereby, a suitable cable connection for the supply cable leading to the tool, a junction block for the motor terminals and the cable connection, and including switch contacts, and a combined end cap and handle removably secured to the casing and provided with a controlling switch and suitable contacts adapted to cooperate with the contacts of the junction block whereby the end cap and handle may be removed without disturbing the electrical connections to the motor.

1,679,186. PROCESS FOR PRODUCING CITRIC ACID BY MEANS OF FERMENTATION. JOSEF SZÜCS, Vienna, Austria, assignor to Montan- und Industrialwerke vormals Joh. Dav. Starck, Prague, Czechoslovakia, a Company of Czechoslovakia. Filed Dec. 4, 1924, Serial No. 753,803, and in Austria Dec. 19, 1923. 6 Claims. (Cl. 260—120.)

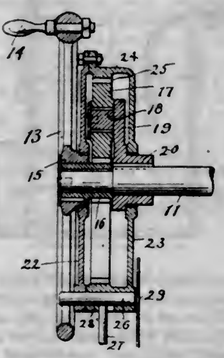
1. Process for producing citric acid by fermentation, which process consists in cultivating citric acid producers on molasses at a temperature between the limits of 15° and 30° C., selecting cultures adapted for conducting the citric acid fermentation without production of oxalic acid and growing the selected cultures—which cannot be distinguished on morphological grounds from other strains of the same species—upon a culture medium made up from molasses.

1,679,187. PIANO. PAUL H. TAYLOR, Wakefield, Mass. Filed Feb. 28, 1927. Serial No. 171,425. 9 Claims. (Cl. 84—239.)



8. A piano action comprising a key, a wippen, contacting surfaces on each, the parts engaging each other when in action along a concave and a convex surface, every point of contact being in the plane of a straight line passing through the fulcra of the key and wippen, and producing accelerated speed of the hammer according to an approximately logarithmic ratio.

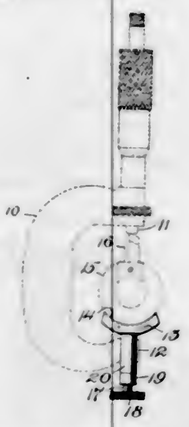
1,679,188. DOOR-EXTRACTOR-OPERATING MECHANISM. IVOR D. THOMAS, Palmyra, Ohio, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 15, 1925. Serial No. 23,224. 4 Claims. (Cl. 74—84.)



1. In a device of the character described, a supporting frame, a shaft mounted on the frame, a hand wheel rotatably mounted on the shaft, a planetary gear casing

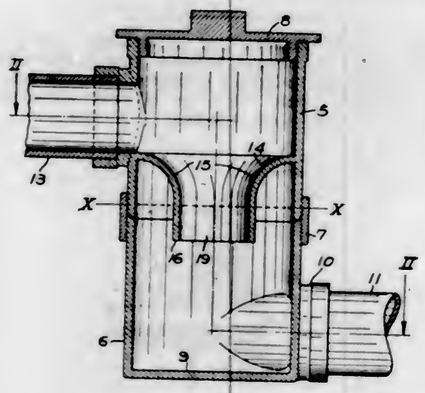
rotatably mounted upon the shaft alongside the hand wheel, said hand wheel having a hub projecting into the casing, a gear fixed to the hub within the casing, an internal gear fixed to said casing, an arm fixed to said shaft and extending within said casing, a gear carried by said arm and meshing with said internal gear and with the gear on the hub and means carried by said casing for locking the same to the hand wheel or to the frame.

1,679,189. MICROMETER ATTACHMENT FOR ADJUSTING TOOLS. ALBERT H. WADELL, Newark, N. J. Filed Apr. 6, 1927. Serial No. 181,287. 1 Claim. (Cl. 33—167.)



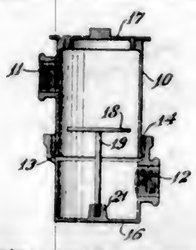
An attachment for micrometers comprising a member having an arcuate plate at the top, a stirrup projecting downwardly therefrom, and a screw passing through the bottom of the stirrup whereby the fixed contact of a micrometer can be clamped between the screw and the bottom of the plate.

1,679,190. WASTE TRAP. ROBERT G. WESTBROOK, Birmingham, Ala. Filed Sept. 16, 1926. Serial No. 135,965. 7 Claims. (Cl. 182—7.)



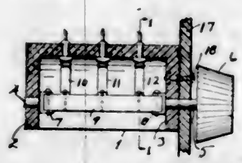
1. In a waste trap, a cylindrical body having a lower inlet and an upper outlet, both said inlet and said outlet being in the side wall of the body, and means interposed between the inlet and outlet forming an inverted annular chamber of such dimensions as to hold sufficient liquid to seal the inlet, said inlet having such form and arrangement that the inflowing fluid is given a swirling movement within the trap.

1,679,191. REVERSIBLE WASTE TRAP. ROBERT G. WESTBROOK, Birmingham, Ala. Filed Sept. 19, 1927. Serial No. 220,498. 8 Claims. (Cl. 182—7.)



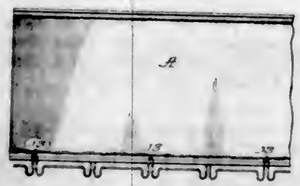
1. A non-siphoning waste trap comprising a cylindrical body having an inlet near the bottom and an outlet near the top, both said inlet and said outlet being disposed normal to the longitudinal axis of the body, a detachable cover for one end of the body, a stem extending from one end of the body to the mid portion thereof, and a circular flat disk member carried by the stem, and rigidly supported thereby, said disk permitting a restricted flow of liquid thereby whereby said trap is reversible end for end to locate said cover at the upper or the lower end of said trap when in use.

1,679,192. RADIO WAVE SWITCH. JESSE S. WHEELAND, San Francisco, Calif. Filed Jan. 4, 1926. Serial No. 79,175. 1 Claim. (Cl. 200—8.)



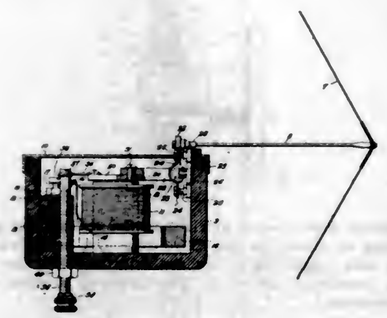
A radio wave switch comprising a semi-cylindrical shell of insulating material, electrical contacts, spaced apart longitudinally and transversely and arranged in rows on the inside surface of said shell, contact springs for each transverse row adapted to span the space between any two of said longitudinal rows, said springs adapted to be mounted on an insulating bar, an operating handle having side projecting bearing members, bearings for said members, means for attaching said insulating bar to said operating handle.

1,679,193. CAGING. WILLIAM E. WHITE, Chicago, Ill., assignor to Kalman Steel Company, Chicago, Ill., a Corporation of Delaware. Filed Jan. 3, 1927. Serial No. 158,625. 3 Claims. (Cl. 72—109.)



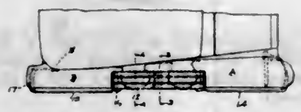
1. A beam caging, comprising a single length of wire bent to provide a series of spaced flange-engaging and form-spacing devices therein, each of said devices including a loop projecting laterally from the wire in one direction and a second loop projecting laterally in the opposite direction, a hook being formed in the last named loop and constituting the flange-engaging means, the length of wire occupying a position midway between the extremities of the two loops and spaced away from the face of the beam.

1,679,194. RADIO RECEIVING APPARATUS. EUGENE A. WIDMANN, Brooklyn, N. Y., and FRANK D. LEWIS, West Orange, N. J., assignors, by mesne assignments, to Pathe Phonograph & Radio Corporation, a Corporation of New York. Filed June 20, 1922, Serial No. 569,692. Renewed July 7, 1927. 4 Claims. (Cl. 179—108.)



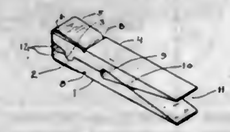
3. A loud-speaker for radio-receiving sets, comprising a watch-case telephone receiver embodying a cup, a cover therefor, and an electro-magnet and an armature for the same disposed within the cup; a large conical amplifying diaphragm disposed external to the telephone receiver; a vibration-transmission element connected at one end with the armature and leading through the cup directly to the apex of the conical diaphragm to vibrate the latter in accordance with the movements of the armature; and an adjusting screw extending through the cup and connected to move the armature toward or from the pole-piece or pieces of the magnet to regulate its normal position with respect thereto, said screw having a manipulating portion external to the cup.

1,679,195. AUTOMOBILE SIDE BUMPER. CARL WILLIAMS, San Francisco, Calif. Filed Aug. 30, 1926. Serial No. 132,347. 2 Claims. (Cl. 280—164.)



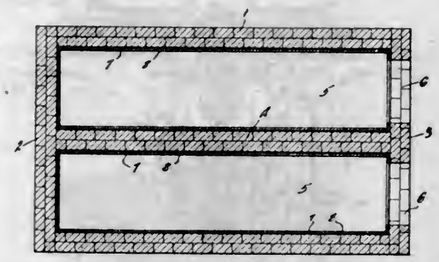
1. The combination with an automobile, of running-boards extending along the sides of the automobile and substantially horizontally disposed resilient brackets constituting the sole means of connecting the running-boards with and supporting the same on the sides of the automobile, and which bracket yields laterally incident to encounter of the running-board with an obstruction.

1,679,196. CLOTHESPIN. HENRY C. ZIEBURTZ, Cleveland Heights, Ohio. Filed Feb. 7, 1928. Serial No. 252,523. 1 Claim. (Cl. 24—137.)



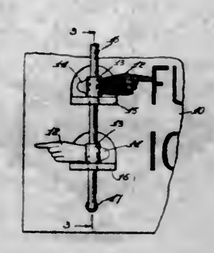
A clothes pin comprising a pair of wooden jaws one of which has a cross groove in the inner side thereof and the other of which has a cross rib fitting in said groove and forming a pivot, each jaw having a rear end beveled on the inner side behind the pivot to limit the extent of opening of the jaws, and a flat spring bent around and enclosing the rear ends of both jaws and having its ends engaged with the outer sides of the jaws in advance of the pivot.

1,679,197. SETTING STRUCTURE FOR LUMBER KILNS AND THE LIKE. JACOB M. AARONS, Cleveland Heights, Ohio. Filed Feb. 16, 1924. Serial No. 693,282. 2 Claims. (Cl. 72—16.)



1. A setting structure for lumber kilns wherein considerable heat and moisture are encountered, comprising a setting of porous material and a heat insulating and moisture proof coating applied to the inner surface thereof, said coating comprising a primer coat of gilsonite and pine oil and a finishing coat of asbestos fibres, gilsonite, and pine oil.

1,679,198. REMINDER. FRANK ALLEGREZZA, Chicago, Ill. Filed Sept. 8, 1927. Serial No. 218,215. 3 Claims. (Cl. 116—134.)

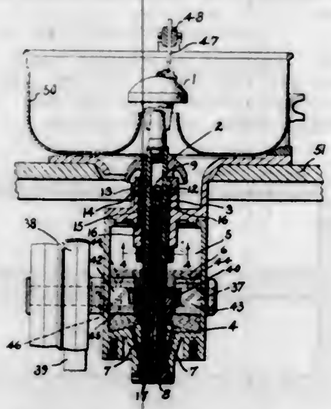


2. In a reminder device of the character described comprising a metallic mounting plate provided on its face with a list of itemized information, flat substantially horizontally projecting perforated lugs struck out of said plate adjacent each of the items of the list, a common pivot extending upwardly through all of said lugs in spaced relation to the mounting plate, an indicator aligned with each item, said indicator being formed adjacent one end with a loop for loosely mounting on the common pivot, and slidably supported on the flat upper surface of the lug adjacent the aligned item whereby to permit free movement of indicators into reminding and non-reminding positions relative to the items aligned therewith.

1,679,199. MACHINE LUBRICATION. NELSON M. BAKER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Mar. 8, 1926. Serial No. 93,157. 5 Claims. (Cl. 308—170.)

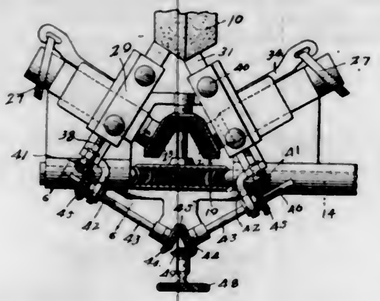
1. In a device of the character described, a hollow shaft, bearings for the shaft, a rod within the hollow shaft having a longitudinal slot for the length of the

rod on the outside thereof, a spiral member in the bore of the shaft and secured thereto, an oil well communicating with the spiral member, and means for rotating



the shaft whereby the spiral member will drive the oil from the oil well along the longitudinal slot in the rod to the bearings.

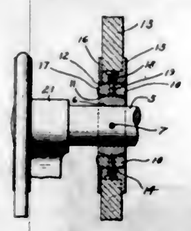
1,679,200. GRINDSTONE HONING DEVICE. NELSON M. BAKER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Aug. 6, 1923. Serial No. 656,009. 4 Claims. (Cl. 125—11.)



1. In combination with a grinding machine including a rotary stone, a housing arranged in front of the stone, a sleeve carried by the housing, a shaft arranged within the sleeve, a hone carriage associated with the sleeve, a cam carried by the shaft, means to connect said hone carriage and cam, and means to rotate said shaft whereby the hone carriage is reciprocated in the path of the stone face.

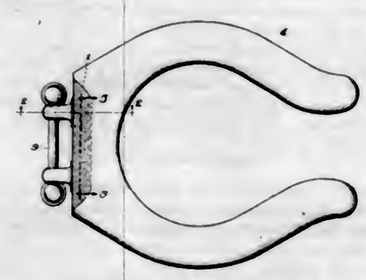
1,679,201. UNIVERSAL STONE MOUNTING. NELSON M. BAKER and GEORGE L. LJUNGLOF, Southbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Nov. 16, 1923. Serial No. 675,069. 2 Claims. (Cl. 51—168.)

1. A grindstone mounting of the character described comprising a shaft, a ring member on the shaft having a spherical peripheral surface, an annular ring enclosing the spherical surface of the first ring and a third ring enclosing the second ring, an annular grindstone member, means securing the third ring to the annular grindstone member, a pin extending through the shaft and the first ring and into the second ring on opposite sides thereof in a plane which lies centrally between the bounding rotational planes of the grinding surface of the grindstone, the extensions of the pin into the second ring acting as pivots for said ring, and pivot members extending from the third ring into the second ring on



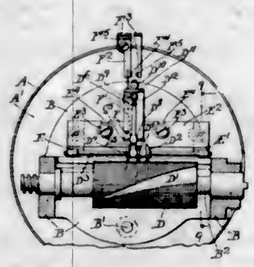
opposite sides thereof at right angles to the first pin and acting as pivots for the third ring and being located in the said plane which lies centrally between the bounding rotational planes of the grinding surface of the grindstone.

1,679,202. TOILET-SEAT HINGE. JOSEPH W. BISHOP, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Nov. 1, 1926. Serial No. 145,557 8 Claims. (Cl. 4—237.)



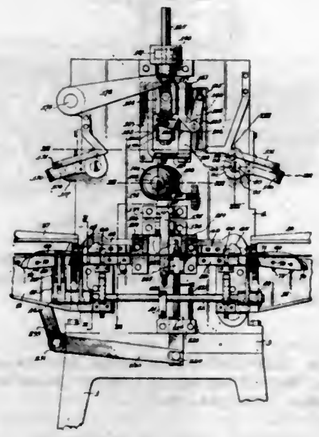
1. The combination of a toilet seat, a flat metallic insert embedded therein and having a corrugated surface for preventing displacement thereof, and a hinge secured to said insert.

1,679,203. SPEEDOMETER. GUY W. BLACKBURN, Elgin, Ill. Filed Apr. 9, 1924. Serial No. 705,235. 25 Claims. (Cl. 264—21.)



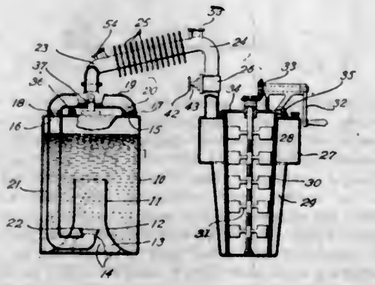
1. In a speed indicator, a rotatably mounted visual indicating drum, mechanical means for rotating it through a predetermined angle in response to speed variations and yielding means for resisting the rotation of the drum, said means comprising a receptacle containing an oil bath in which the edge of the drum only is immersed.

1,679,204. WIREWORKING MACHINE. JAMES D. CONEY and BERNT GARLLUS, Detroit, Mich., assignors to Star Service Hanger Co., Detroit, Mich., a Corporation of Michigan. Filed Jan. 2, 1924. Serial No. 683,954. 16 Claims. (Cl. 140—71.)



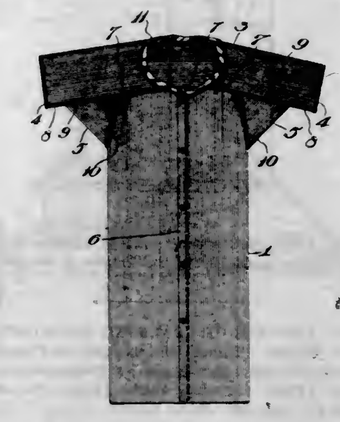
1. In a wire working machine for forming a blank piece of wire into a garment hanger having coat arms, a shank and hook:—wire blank holders, swingable shoulder forming dies adapted to place the ends of the wire blank together, an anvil, a cam actuated clamping member adapted to cooperate with said anvil in temporarily holding the ends of said arms together, wire twisting means adapted to be lowered over the ends of said arms to twist said arms and form a shank, and hook forming means adapted to operate on the hanger shank while said hanger is held by said blank holders and said clamping means.

1,679,205. REFRIGERATION. FERNAN O. CONILL, Marseille, France. Filed Jan. 16, 1923. Serial No. 612,885. 5 Claims. (Cl. 62—120.)



1. In refrigerating apparatus, in combination, a receptacle adapted to receive a liquid having dissolved therein a condensible gas which may be released from said liquid upon heating thereof in one stage of operation of the apparatus, a second receptacle connected to receive and have condensed therein the gas driven out of solution from the liquid in the first receptacle upon the heating of the latter, said first receptacle being adapted to be submerged in a cooling liquid during another stage of operation of the apparatus to cause the re-absorption of said gas within the liquid therein, a signal adapted to be operated by vapor pressure, and means associated with said first receptacle and forming a reservoir adapted to be filled with cooling liquid upon the submerging of said first receptacle, said reservoir-forming means being in thermal contact with said first receptacle and adapted upon a subsequent heating of the latter to supply vapor for operating said signal upon the attainment of a predetermined abnormal pressure of gas within said first receptacle.

1,679,206. UNDERGARMENT. JAMES H. CROSSINGHAM, Germantown, Pa. Filed Jan. 19, 1925. Serial No 3,336. 1 Claim. (Cl. 2—113.)

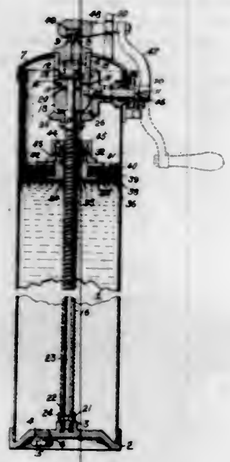


A knitted garment comprising a one piece body provided with vertical wales, which body extends upwardly to the neck-opening at the garment front and nearly to the neck-opening at the garment back, a narrow, transverse seamless yoke the wales of which are horizontally extended, said yoke being shaped to fit the neck-opening and arranged between the upper ends of the body and secured thereto by lines of stitches, said yoke being extended across the garment at the rear of the neck-opening, said yoke being extended to form integral sleeve portions, and seamless arm pit gussets each substantially of the configuration of an isosceles trapezium, the wales of which gussets are arranged at an inclination to both the wales of the body and the wales of the yoke, said yoke being connected to said body and said gussets at the front and rear by lines of stitches, the stitches at the garment front extending from the neck-opening to the sleeve ends, and the stitches at the back extending entirely across the back to the sleeve ends, said gussets being connected by lines of stitches extending vertically from points below the body top to said yoke, and horizontally across the gusset top to said yoke, from points short of the sleeve ends to said vertical lines of stitches.

1,679,207. FIRE EXTINGUISHER. EDWARD F. DELFOE, Brooklyn, N. Y. Filed Oct. 28, 1922. Serial No. 597,492. 9 Claims. (Cl. 299—93.)

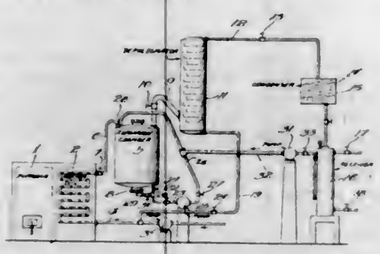
1. In a fire extinguisher comprising a cylindrical body, the combination of a threaded hollow shaft therein, the interior of which communicates with the interior of the cylinder, a handle operatively associated with the shaft for rotating the same, a piston mounted on said shaft, and comprising a liquid proof cup held between metallic plates having yieldable outer edges and a triangular pack-

ing ring, said piston adapted to move on said shaft by a rotary movement of the handle to cause liquid to be forced through the shaft, a nozzle communicating with



the hollow shaft, and means in said handle for closing and sealing the nozzle when the handle is in inoperative position.

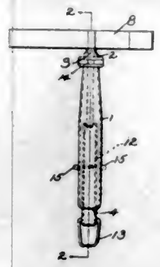
1,679,208. PROCESS OF CRACKING PETROLEUM OIL. GUSTAV EGLOFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Oct. 22, 1923. Serial No. 669,931. 2 Claims. (Cl. 196—66.)



2. A continuous process of oil conversion comprising subjecting an advancing stream of oil to a cracking temperature in a heating zone, passing heated oil from said stream into an enlarged reaction chamber wherein a body of liquid oil accumulates and substantial vaporization occurs, dephlegmating the evolved vapors, continuously withdrawing unvaporized residual oil from said reaction zone, isolating predetermined portions of such residual oil from the system, uniting with the remaining portions of the residual oil uncondensable gases produced in the process, returning such portion of the unvaporized oil and the uncondensable gases united therewith directly and without passage through said heating zone to the vapor space of said reaction chamber for further treatment.

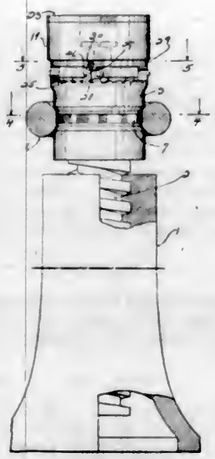
1,679,209. CIGARETTE HOLDER. EDWARD EKSERGIAN, St. Louis, Mo., and WALFRID WALLENTHIN, Attleboro, Mass.; said Wallenthin assignor to said Eksergian. Filed Aug. 27, 1921. Serial No. 496,068. 2 Claims. (Cl. 131—10.)

2. In a cigarette holder, a tubular handle, a V-shaped flat spring slidingly mounted in one end of said handle, a rigid member slidingly mounted in the other end of said handle and engaging the bottom of said spring, a spring seat secured to said handle, a coil spring compressed be-



tween said seat and the outer end of said member, and opposed finger and thumb gripping surfaces on said handle and member.

1,679,210. LIFTING JACK. ALVA RAY ESMOND, Union Grove, Wis. Filed Mar. 25, 1927. Serial No. 178,467. 3 Claims. (Cl. 254—100.)

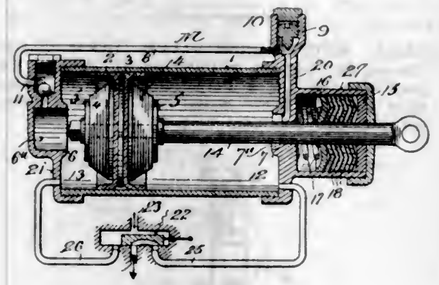


1. A lifting jack comprising a body portion having a vertical aperture therethrough provided with internal threads, a lifting screw cooperating with the internally threaded aperture and provided with an enlarged head having a peripheral channel and having ratchet teeth, a pair of curved arms embracing said head and fitting within sid channel, one of said arms being provided with a pawl cooperating with said ratchet teeth, and a handle for operating said arms, said head having an upwardly projecting stub shaft, and a shoe revolubly mounted upon said stub shaft.

1,679,211. MEHOD OF SULPHONATION. HENRY B. FABER, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed July 2, 1921. Serial No. 482,140. 7 Claims. (Cl. 260—67.)

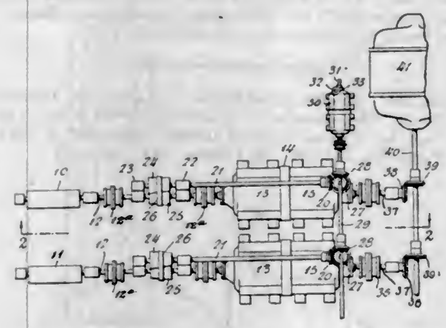
6. The method of sulphonating alcohol soluble organic coloring matters which comprises subjecting the same in a solid state to the action of gaseous sulfur trioxide.

1,679,212. PRESSURE-ACTUATED MOTOR FOR OPERATING DOORS OR THE LIKE. PARIS R. FORMAN, Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed Sept. 29, 1923. Serial No. 665,680. 3 Claims. (Cl. 121—44.)



1. In a pressure actuated motor for operating doors, a cylinder, a piston operating therein, and a piston rod for connection to the door to be operated and pressure supply and exhaust connections to piston ends of the cylinder, in combination with a by pass connecting opposite ends of said cylinder, means for adjusting the area of communication between said by pass and one end of said cylinder, and a check valve controlling the communication between the by pass and the other end of said cylinder said piston acting at each end of its stroke to cut off communication between the cylinder and the by-pass to prevent any exhaust of fluid pressure to the atmosphere.

1,679,213. POWER-TRANSMITTING DEVICE. HARRY P. FOWLER, Waterbury, Conn., assignor to The Waterbury Tool Company, Waterbury, Conn., a Corporation of Connecticut. Filed June 9, 1927. Serial No. 197,555. 7 Claims. (Cl. 74—7.)

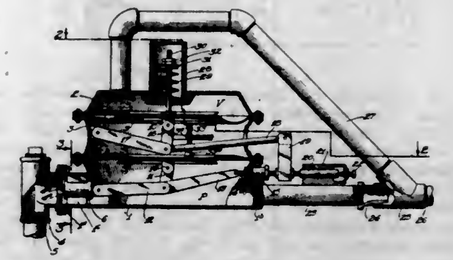


1. The combination with a plurality of machine units adapted to perform successive steps of a continuous operation upon material treated by such units, of a plurality of driving units for each of said machine units, characterized by each of said driving units consisting of a hydraulic variable speed gear having a control shaft adapted to be rotated to vary the driving speed of said speed gear, a master control shaft for simultaneously actuating all of said control shafts, and means driven by the driving shaft of each respective speed gear for counteracting the adjustment of its respective control shaft produced by rotation of the master shaft, said means including an adjustable device for varying its effect.

1,679,214. PROCESS FOR PRODUCING RESIN BY POLYMERIZATION. WESLEY REIFF GERGES, Philadelphia, Pa., assignor to The Barrett Company, a Corporation of New Jersey. Filed Nov. 6, 1924. Serial No. 748,121. 12 Claims. (Cl. 260—7.)

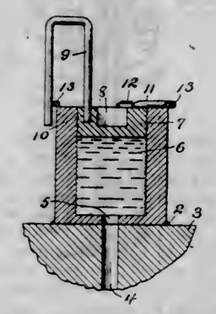
1. The process which comprises polymerizing solvents containing polymerizable constituents of the coumarone and indene classes and before all the polymerizable constituents have been polymerized diluting the mixture with a sufficient amount of a non-neutralizing diluent for the polymerizing agent to arrest polymerization.

1,679,215. FLUID REGULATOR. OTTO B. GOLDKAMP, San Diego, Calif., assignor of one-half to San Diego Consolidated Gas and Electric Company, San Diego, Calif., a Corporation of California, and one-fourth to Selmar R. Siebert, San Diego, Calif. Filed May 19, 1924. Serial No. 714,382. 8 Claims. (Cl. 50—10.)



1. In a fluid regulator, a fluid conducting means, a valve member shiftably mounted therein, a Venturi means positioned in said fluid conducting means, a vacuum chamber member provided on one side with a diaphragm whose axis is disposed at right angles to the axis of said valve member, the interior of said chamber member communicating with said fluid conducting means at said Venturi means, lever and link means operatively connecting said diaphragm with said valve member, a pressure chamber member communicating with said fluid conducting means between said valve member and said Venturi means and provided on one side with a diaphragm in spaced parallel relation with said first diaparagm, and a link means connecting said last mentioned diaphragm with said lever and link means.

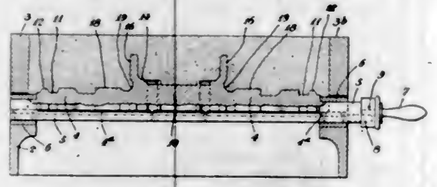
1,679,216. GREASE CUP. MARION J. HENRY, Kansas City, Kans. Filed Aug. 6, 1927. Serial No. 211,170. 3 Claims. (Cl. 184—48.)



1. A grease cup having a discharge opening, a rotary plug fitted in and having threaded connection with said cup, a U shaped member having one arm fastened to

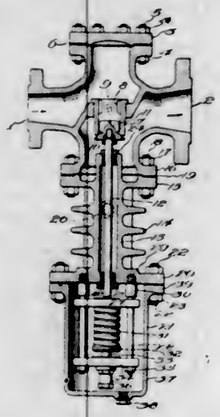
and movable with said plug and having its other arm revoluble around and movable lengthwise of said cup with said plug, and means on said cup adapted to be yieldingly engaged by said other arm for releasably limiting the rotation of said plug.

1,679,217. MANUFACTURE OF CYLINDRICAL CASTINGS AND THE LIKE. ALBERT JOHN HOAGLIND, Villa Park, Ill., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 16, 1924. Serial No. 693,176. 5 Claims. (Cl. 22—24.)



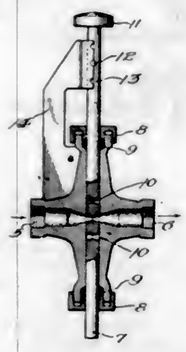
1. Apparatus for forming cylindrical impressions in sand, which comprises a bed plate having a shaft extending longitudinally therethrough, pattern parts of cylindrical shape arranged along the shaft, the bed plate having an aperture conforming to the longitudinal cross sectional shape of the patterns, a pattern part immovable with regard to the plate carrying marking characters arranged to impart marking impressions to the sand, a flask mounted on the plate, the pattern parts on the shaft arranged on actuation by the shaft to be rotated out of the flask and below the face of the bed plate to free the pattern from the corresponding impressions in the sand formed by the patterns and the plate carrying marking characters being freed from its impressions by a movement of translation.

1,679,218. SAFETY OR AUTOMATIC RELEASE VALVE. LYMAN C. HUFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Feb. 5, 1925. Serial No. 6,940. 2 Claims. (Cl. 137—53.)



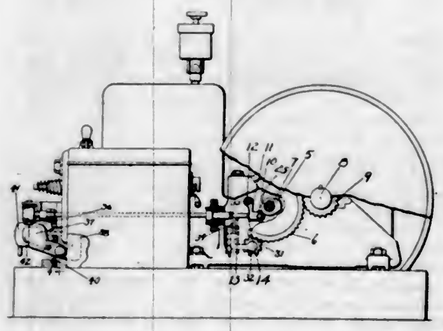
1. In an unloading valve having inlet and outlet, the combination with a vertically movable valve normally contacting with a valve seat, a stem depending vertically below the valve and connected therewith, a cooling chamber, having an inlet for the introduction of cooling liquid enclosing said stem, an adjustable tension coil spring depending below the stem, a cooling chamber enclosing said spring, and means for admitting a cooling liquid thereto, the valve and stem being adapted to compress the spring when the pressure exerted on the valve overcomes the predetermined adjusted tension of the spring.

1,679,219. MULTIORIFICE VALVE. LYMAN C. HUFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Feb. 11, 1925. Serial No. 8,350. 2 Claims. (Cl. 251—51.)



1. In valves, the combination with a chamber having an inlet and an outlet each converging to a common diameter, of a slidable stem in said chamber, a plurality of orifices of different sizes in said stem, each of said orifices being so formed that the edges of each orifice will coincide with the inlet and outlet whereby no shoulder is presented at the juncture of the inlet and outlet with the orifices, said inlet and outlet tapering inwardly adjacent said orifices to present an unbroken smooth surface, and means for locking said stem in any adjusted position, comprising a notched bracket on said valve chamber for receiving projections on said slidable stem.

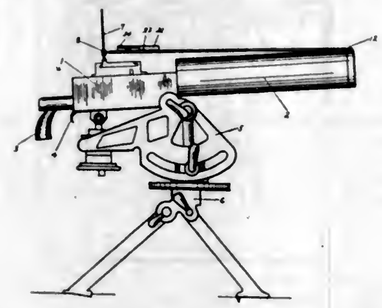
1,679,220. IGNITION SYSTEM. CHARLES B. JAHNKE, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 9, 1924. Serial No. 742,630. 10 Claims. (Cl. 123—152.)



1. In an ignition system, a valve-operating device having a rod, electrical contacts about said rod, one of said contacts being carried by a bearing element for said rod

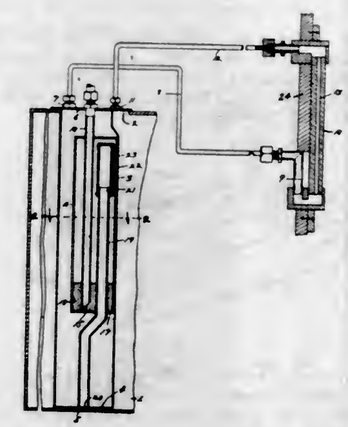
and adapted to serve as a motion-limiting means therefor, and means operated by said valve-operating device for periodically making electrical connection between said contacts.

1,679,221. SIGHTING ATTACHMENT FOR GUNS. RICHARD W. KELM, Binghamton, N. Y. Filed Nov. 21, 1927. Serial No. 234,714. 3 Claims. (Cl. 33—53.)



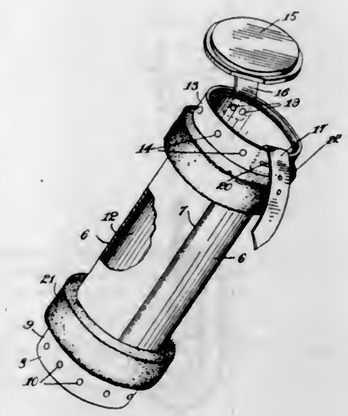
1. In combination with the front sight and a vertically adjustable rear sight of a gun, a sighting attachment extending between such sights and attachable thereto for adjustment with said rear sight, and a level for indicating the horizontal position of said attachment.

1,679,222. DEPTH-INDICATING DEVICE. HORACE W. KING, Ann Arbor, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a Corporation of Michigan. Filed Aug. 30, 1919. Serial No. 230,799. Renewed Feb. 10, 1922. Serial No. 535,619. 6 Claims. (Cl. 73—54.)



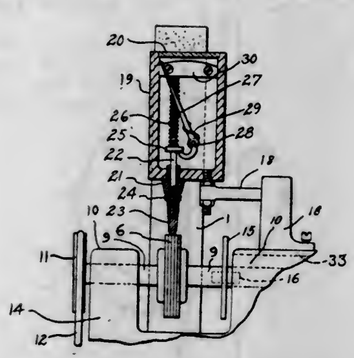
1. In a depth indicating device for liquids, the combination with a closed tank containing a liquid, of a tube extending into the liquid and communicating therewith at the full depth to be mensured, a second tube adapted for the passage of air under pressure and extending into said first-mentioned tube, means communicating with the interior of said first mentioned tube and containing a liquid at the lower end of said second tube for closing the same, and means connected to said first mentioned tube and said tank above the level of the liquid contained therein for indicating the differences in air pressures in said first mentioned tube and in said tank above the level of the liquid contained therein.

1,679,223. PNEUMATIC DISPATCH CARRIER. DANIEL J. MACMILLAN, Brooklyn, N. Y. Filed May 2, 1927. Serial No. 188,071. 15 Claims. (Cl. 243—35.)



1. A pneumatic dispatch carrier comprising a cylinder formed of leather, a closure for one end of the carrier that is secured to the leather cylinder, an inner tube composed of a cylinder of comparatively rigid fiber secured to the leather cylinder, and a closure for the open end of the carrier.

1,679,224. EDGING MACHINE. ALBERT E. MAYNARD, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Oct. 16, 1919. Serial No. 331,058. 2 Claims. (Cl. 33—172.)



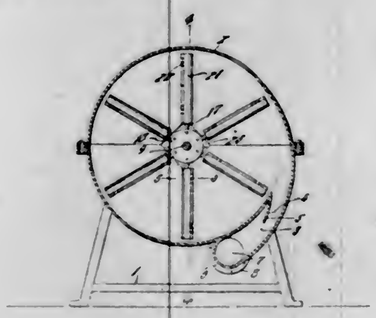
1. In a device of the character described, lens clamps, means for rotating the lens clamps, a reciprocating rod adapted to engage the edge of a lens held in the lens clamps, a spring encircling the reciprocating rod, adapted to hold the rod against the edge of the lens, an extension on the reciprocating rod, a pivoted bell crank pointer member having a portion engaging the extension on the rod, an arm extending from the pivot on the side opposite from the portion engaging the rod, and a pointer point offset at right angles to the arm, an arcuate scale plate centered about the pivot of the pointer member and underlying the offset pointer, and indications on the scale under the pointer to indicate the movement of the pointer point when the rod is reciprocated.

1,679,225. PIPE CUTTER. JOHN D. MERRIFIELD, Erie, Pa., assignor to Reed Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed Feb. 19, 1923. Serial No. 619,882. 1 Claim. (Cl. 81—192.)



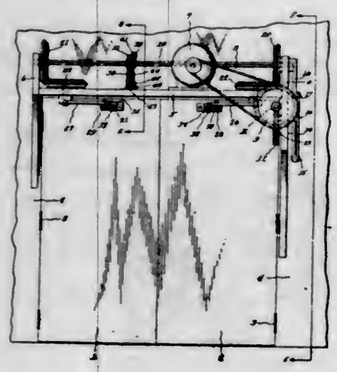
In a pipe cutter, the combination of a shank of rectangular cross-section having integral top, bottom and side walls with a longitudinal cavity within the walls"; a cutter head slidingly mounted on the shank; a nose extending from the shank and having a slot opening on the inner surface of the nose, said slot communicating with the opening in the shank and forming a means of communication to the opening through which a core forming the opening may be supported; and cutter wheels arranged in the slot and mounted in the nose.

1,679,226. AIR COMPRESSOR. JOHN R. MITRO, Kincaid, Ill. Filed July 24, 1925. Serial No. 45,878. 1 Claim. (Cl. 230—133.)



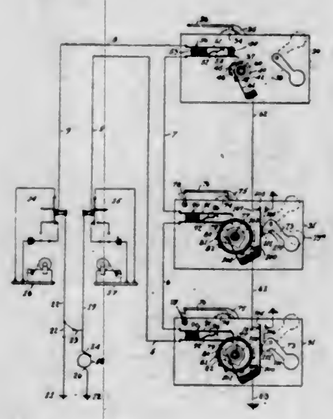
A casing of cylindrical formation for a centrifugal air compressor, said casing having an offset side merging into a duct at the air outlet of the casing, and the inner wall provided by the opening having an angle flange extending into the duct, the end wall of the duct being rounded and merging into the casing and having an outlet at one side thereof, and a nozzle connected to the outlet and whereby the air forced by the compressor into the duct will contact with the end wall thereof, the backward rush of air will be resisted by the flange into the duct to prevent the reentrance thereof into the casing and the air caussd to circulate in the duct will be forcibly ejected through the nozzle.

1,679,227. DOOR-HANDLING MECHANISM. JOSEPH S. NEFCZESAUSKAS, Cleveland, Ohio. Filed Jan. 25, 1922. Serial No. 531,756. 1 Claim. (Cl. 268—63.)



Door opening and closing mechanism, comprising bracket means arranged in close proximity to the door opening and extending across the top and along the sides of the same, an operating motor mounted on the top portion of said bracket means, crank arms extending along and mounted in one side portion of said bracket means, operative connections between said motor and crank arms, a shaft mounted in the side portions of said bracket means and extending across the top portion thereof, and crank arms for the door having operative connections through the top portion of said bracket means with said operating shaft, said parts being so constructed and arranged as to effect opening and closing of the door by operation of the motor in the same direction.

1,679,228. METHOD AND APPARATUS FOR TESTING SIGNALING SYSTEMS. JAMES G. NOLEN, New York, N. Y., assignor to Robert L. McElroy, Charlottesville, Va. Filed Dec. 11, 1924. Serial No. 755,214. 12 Claims. (Cl. 177—367.)



1. In combination, a main line; a signal receiving device and a generator in said line; a master transmitter and normally wound individual transmitters interposed in said line; a secondary line passing said individual transmitters; said master transmitter including means adapted to connect the main line with the secondary line and to send testing signal current through the latter; and a switch in each individual transmitter for completing the secondary line when the transmitter is wound and breaking the secondary line when the transmitter is unwound.

1,679,229. LOCKING SAFETY PIN. PEDRO RIOSECO, New York, N. Y. Filed Mar. 19, 1927. Serial No. 176,777. 3 Claims. (Cl. 24—156.)

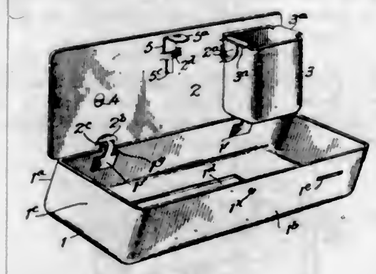


1. An article of the character described comprising, a pin portion and a guard, said pin portion being crimped adjacent its point, and said guard including a channel portion, part of which channel portion is bent at angles more acute than those of the crimped pin portion so as not to substantially conform thereto.

1,679,230. PURIFICATION OF INDANTHRENE. DONALD G. ROGERS, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 8, 1923. Serial No. 623,732. 9 Claims. (Cl. 260—31.)

1. In the process of making N-dihydro-1,2-1',2'-anthraquinonazine by subjecting 2-aminoanthraquinone to the action of molten caustic potash wherein a fused reaction-mass is obtained, the steps which comprise dissolving said fused mass in water and crystallizing the alkali metal salt of the leuco dye from the resulting solution.

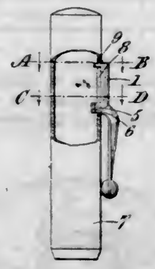
1,679,231. COMBINATION HOLDER FOR RAZOR BLADES AND PAPER. HOWARD B. SHERMAN and DONALD P. ORDWAY, Battle Creek, Mich., assignors to American Stamping Co., Battle Creek, Mich., a Corporation of Michigan. Filed Sept. 17, 1925. Serial No. 56,944. 4 Claims. (Cl. 206—1.)



1. A holder for used razor blades comprising a hollow casing closed at top, bottom, each end and one side, and open at the other side, and having a slot in its wall for the entry of used blades; a plate forming a closure for the open side of the casing, and a blade receiver detachably attached to the said closure plate and positioned beneath the said blade receiving slot when the closure plate is attached to the casing.

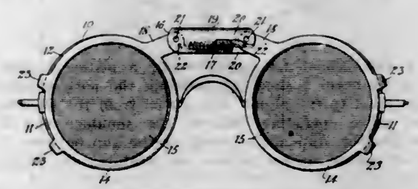
1,679,232. FOUNTAIN-PEN AND PENCIL CLIP. JULIUS SHUBE, Chingford, England. Filed Dec. 21, 1926. Serial No. 156,179, and in Great Britain Dec. 30, 1925. 4 Claims. (Cl. 24—11.)

1. In a fountain pen, the combination with a pen cap having a slot through its wall, of a clip formed with portions extending inwardly toward each other from opposite edges of the clip and then bent outwardly away from each other to form hooks, said hooks adapted to be inserted through the slot in the pen with the clip at



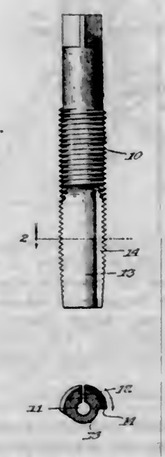
right angles to the longitudinal axis of the cap, and said hooks engaged under the edges of the slot with the clip turned to normal position on the cap.

1,679,233. ATTACHMENT FOR OPHTHALMIC MOUNTINGS. LEO STRAUSS, Far Rockaway, N. Y. Filed Feb. 24, 1927. Serial No. 170,589. 6 Claims. (Cl. 88—41.)



1. An ophthalmic device comprising a pair of lens frames, a bridge member, means connecting the bridge member with said lens frames so as to permit the frames to be moved with respect to each other to be juxtaposed side by side, or edge to edge in the same plane, and means connected with the frames and having a normal tendency to urge the frames to the side by-side relationship.

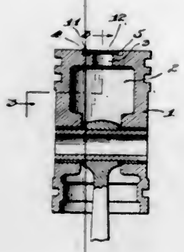
1,679,234. THREAD-CUTTING TAP. OLOF A. A. TENOW, Chicago, Ill., assignor of one-half to Justus P. Seeburg. Filed Aug. 13, 1926. Serial No. 128,976. 5 Claims. (Cl.10—141.)



1. A thread-cutting tap having a thread-cutting portion with a portion thereof at one side of its axis extending lengthwise of the tap cut away to provide cutting edges.

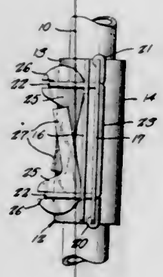
said tap being slotted lengthwise thereof at the other side of its axis, with the slot so disposed that the cutting edge portions of the tap move toward the axis thereof when encountering the resistance of relatively hard portions of the work.

1,679,235. VALVE CONSTRUCTION. HARRY E. THOMPSON, Detroit, Mich., assignor to Universal Cooler Corporation, Detroit, Mich., a Corporation of Michigan. Filed Oct. 13, 1927. Serial No. 225,880. 6 Claims. (Cl. 230—221.)



1. A valve construction comprising a piston having a port in its head, a shoulder bounding the port, a bridge member fixed to the piston and spaced from the shoulder, a disk valve operating between the shoulder and the bridge member, and means bridging the gap between the shoulder and the bridge member for retaining and guiding the valve.

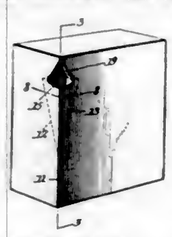
1,679,236. PIPE PATCH. JAMES L. WILSON and THOMAS GARRARD VICARS, Pineville, Ky. Filed Aug. 24, 1927. Serial No. 215,198. 2 Claims. (Cl. 24—19.)



1. In a device of the character described, a pair of semi-cylindrical members hinged together at one edge, radial flanges extending from the opposite edges, loops extending from one of said flanges and adapted to be received in apertures in the other flange adapted to receive said loops projecting therethrough, and cam members on said loops adapted to draw the flanges together.

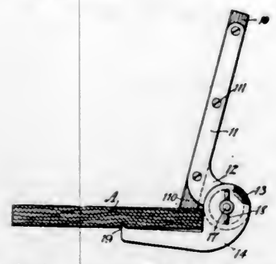
1,679,237. DISPENSING DEVICE. HARRY A. BIRNBAUM, Troy, N. Y., assignor of one-half to Alan S. Cobden, Troy, N. Y. Filed June 23, 1827. Serial No. 200,897. 12 Claims. (Cl. 229—17.)

2. A container of the class described having a corner section, a trough associated with the inner face of said section, and arranged to receive a certain quantity of the material in said container, the outer face of said



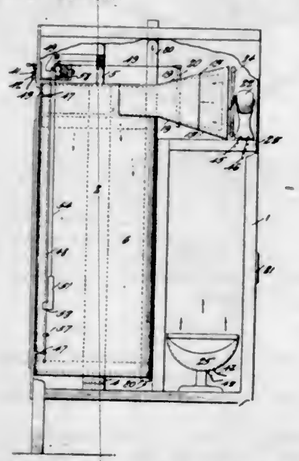
section having a normally closed cut-out portion adapted when forced inwardly to form a communicating opening with said trough.

1,679,238. SEAT BACK. HENRY A. BOIES, Middlebury, Vt. Filed Apr. 4, 1927. Serial No. 180,819. 2 Claims. (Cl. 155—133.)



1. A seat back, comprising a back member, a pair of end members secured to said back member at the side edges thereof, said side members having rearward extensions at their lower ends, a clamp for each of said side members extending forwardly, and means adjustably connecting said extensions to said clamps, the lower portion of said back member below said elements thereon being adapted to bind against the top of a seat board to which the seat back is secured so as to coact with the clamps in holding the seat back in position on the seat board.

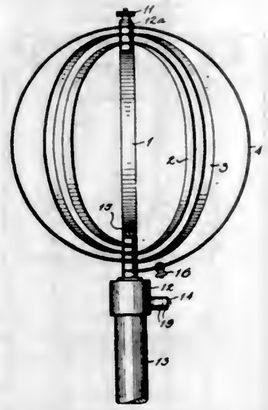
1,679,239. PHOTOGRAPHIC-FILM DRIER. HENRI CASSEREAU, Mexico City, Mexico. Filed Sept. 3, 1927, Serial No. 217,380, and in Mexico Sept. 29, 1926. 15 Claims. (Cl. 34—26.)



1. In a film drier, a reversely-rotatable film carrier, gaseous pressure means for rotating said carrier, means

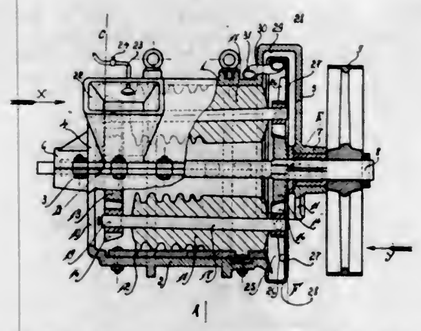
for directing such gas under pressure over the films as a drying medium, and means controlled by the rotation of the carrier for governing the direction of rotation.

1,679,240. ANTENNA. HENRY CSANYI, New York, N. Y. Filed Nov. 16, 1926. Serial No. 148,655. 6 Claims. (Cl. 250—33.)



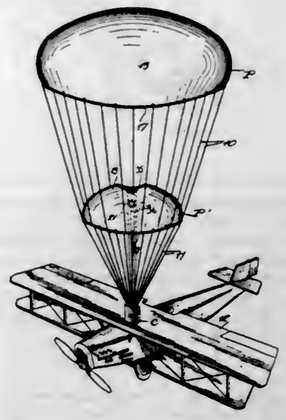
1. An antenna comprising a plurality of similar helical convolutions in series conductivity and pivoted together to swing into a common plane or into a plurality of intersecting planes.

1,679,241. GRINDING AND MIXING APPARATUS. MICHEL DAVID, Jemeppe sur Meuse, Belgium. Filed Sept. 28, 1925, Serial No. 59,202, and in Belgium Oct. 2, 1924. 8 Claims. (Cl. 83—9.)



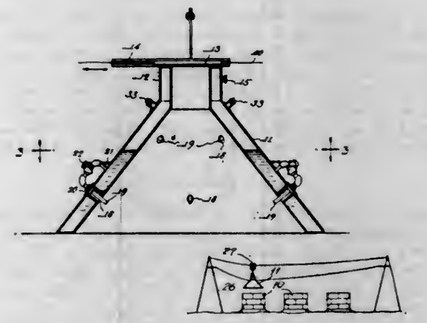
1. In an apparatus for the purpose set forth, the combination comprising a stationary cylindrical jacket, means for supplying material to be treated thereto, means for discharging treated material therefrom, and means cooperating with said jacket, said means comprising a plurality of rollers, one of said rollers having a helical groove extending from its feed end toward its discharge end and decreasing in depth from feed end toward discharge end and having a portion adjacent the discharge end of smooth conical shape, another of said rollers being of similar construction but its grooved and smooth portions being reversed in position and the direction of its helical groove the reverse of that of the first mentioned roller so that the action of the one in the axial movement of the material being treated will be opposed by the action of the other, and another roller having an annularly grooved portion and a smooth conical portion, its grooved portion being adjacent the feed end of the jacket and formed with a plurality of annular grooves decreasing in depth toward the smooth portion, said grooved portion serving to progressively crush the material being treated without moving it axially.

1,679,242. PARACHUTE. FRIEDRICH WILHELM DENDA, Cleveland, Ohio. Filed Nov. 20, 1926. Serial No. 149,608. Renewed Mar. 30, 1928. 7 Claims. (Cl. 244—21.)



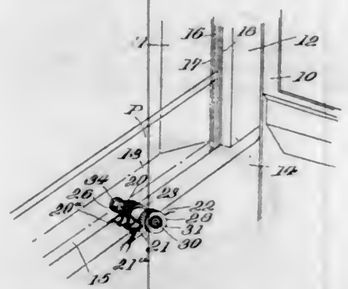
1. In combination, a container, a plurality of flexibly connected parachutes adapted to be stowed in superimposed relation within the container when collapsed, a spring associated with each parachute for projecting it out of the container, and means engageable with the uppermost parachute for releasably retaining said parachutes within the container against the action of their projecting springs.

1,679,243. FIRE EXTINGUISHER. DOMINICK FASUL, New York, N. Y. Filed June 11, 1927. Serial No. 198,099. 10 Claims. (Cl. 169—4.)



1. An apparatus of the class described including a generally frusto conical cap including spaced conical walls, the space between the walls being adapted to serve as a steam and water chamber, said chamber being closed at its top and bottom, steam pipes tapping the chamber and steam nozzles connected to the steam pipes and discharging interiorly of the cap, the pipes tapping the outer wall of the cap, and the cap having passageways therein extending through said walls and space through which the nozzles project.

1,679,244. ANTIRATTLER. PATRICK J. FITZGERALD, Torrington, Conn., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn., a Corporation of Connecticut. Filed Nov. 8, 1926. Serial No. 147,033. 7 Claims. (Cl. 292—75.)



1. In a quick detachable anti-rattler for sliding panes movable into and out of a pocket casing, a friction member to engage the pane, means to resiliently force said member and therewith the pane toward one wall of said pocket, clamping devices to detachably engage the faces of the other wall of the pocket to support said member and means, and adjustment means to permit regulation of the distance from said clamping devices to the contact portion of said friction member.

1,679,245. APPARATUS FOR PREVENTING DISTURBANCES OF THE STATE OF HEALTH DUE TO SEESAW AND ROTARY MOTIONS. GUSTAV GAERTNER, Vienna, Austria, assignor of one-half to the Firm Joh. Kremenezky, Vienna, Austria. Filed May 9, 1927, Serial No. 189,998, and in Austria July 29, 1926. 2 Claims. (Cl. 174—89.)



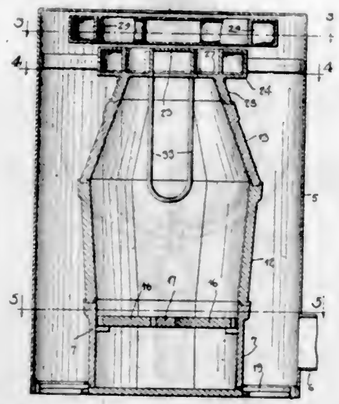
1. In apparatus for preventing mal de mer and dizziness from rotational motions and the like, a headset including a resilient frame, electrodes of similar polarity carried at the opposite sides thereof adapted to press against the sides of the head, and a third electrode of opposite polarity in circuit with the first-named electrodes, and with an electrical source, said third electrode being adapted also to make contact with some part of the body.

1,679,246. RECOVERY OF INSOLUBLE UREA FORMALDEHYDE RESINS. ALPHONSE GAMS and GUSTAV WIDMER, Basel, Switzerland, assignors to the Firm "Society of Chemical Industry in Basle," Basel, Switzerland. Filed Jan. 4, 1926, Serial No. 79,262, and in Switzerland Jan. 17, 1925. 4 Claims. (Cl. 260—3.)

1. A process of converting insoluble condensation products of urea and formaldehyde into a soluble form, by heating the product with aqueous formaldehyde under pressure.

1,679,247. HOT-AIR FURNACE. GABRIEL HATVANI, Medina, Ohio. Filed July 8, 1926. Serial No. 121,176. 2 Claims. (Cl. 126—99.)

1. In a hot air furnace, a casing, an inner shell spaced from the casing and forming an ash pit, a fire pot and a combustion chamber, means to facilitate supply of cold air into the bottom of the casing and the exit of hot air from the top of the casing about said shell, and a heat radiator in the top of the casing including a horizontal ring-like smoke conduit communicating with the top of the inner shell and adapted for connection with a chimney, an annular flange depending from the heat radiator and mounted on the upper edge of the wall of the combustion chamber for supporting the radiator in position, said heat radiator further comprising a central smoke dome arranged concentrically within the ring-like smoke conduit



and communicating at its rear side with the rear portion of said smoke conduit, a forward smoke box for the conduit, and a superposed horizontal smoke conduit communicating at its forward side with the upper portion of the smoke box and adapted for connection at its rear side, said upper smoke conduit comprising a horizontal ring-like smoke drum of larger diameter than the first named smoke conduit and spaced therefrom vertically and concentrically to permit the flow of air to be heated thereover.

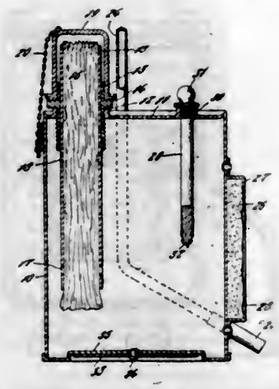
1,679,248. PROCESS OF MAKING CORNER BEADS AND NAIL SPACERS. CHARLES E. KEAS, Los Angeles, Calif., assignor, by direct and mesne assignments, to Economy Products Corporation, Los Angeles, Calif. Filed Oct. 2, 1925. Serial No. 59,991. 2 Claims. (Cl. 153—2.)



1. The process of making a corner bead which consists in stamping a strip of sheet metal to form two rows of openings therethrough, and bending the same longitudinally between said rows of openings to form a corner bead, the part cut out from each opening being designed to be folded into a nail spacer, said openings being of rectangular form with the corners extended slightly in the line of one of the sides to form spaced lugs on said part to be bridged by the head of a nail, substantially as shown and described.

1,679,249. SOLDERING TORCH. JOHN J. LAWLESS, Atlantic City, N. J. Filed Apr. 28, 1927. Serial No. 187,312. 1 Claim. (Cl. 158—35.)

In a torch of the character described, a casing serving as a fuel reservoir, a thimble detachably mounted within the top of the casing, a guide slidably mounted within the thimble, a wick within the guide, and a blow-tube mounted exteriorly upon the casing in longitudinal relation thereto and having one end closed and terminating

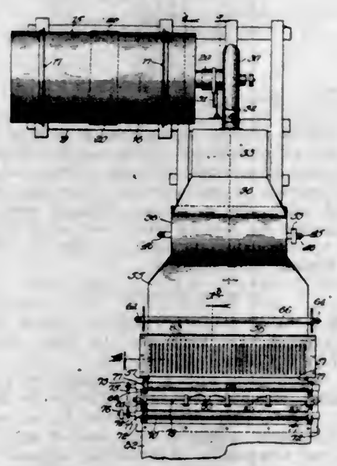


adjacent the wick, said tube being formed in its side toward the wick with an air discharge opening whereby a current of air may be forced transversely of the flame at the wick.

1,679,250. UREASE PREPARATION. OTTO LIND, Dusseldorf, Germany. Filed Sept. 3, 1927, Serial No. 217,527, and in Germany Sept. 15, 1926. 4 Claims. (Cl. 167—4.)

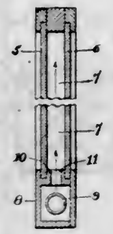
2. A method for making stable, easily soluble, light-colored, dry urease preparations which consists in extracting urease-containing vegetable with water, adding alkali-metal phosphates to the aqueous extract and atomizing such extract into a dry and heated gas stream to free it from water.

1,679,251. BODY FORMED OF SEPARATE FIBERS. HARVEY B. LINDSAY, Oakland, Calif., assignor to Dry Zero Corporation, Wilmington, Del., a Corporation of Delaware. Filed Jan. 22, 1925. Serial No. 4,018. 4 Claims. (Cl. 19—144.)



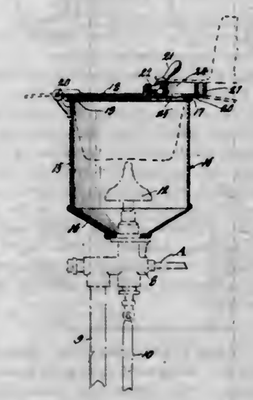
1. A body of thermal insulating material comprising kapok fibers with the greater portion thereof extending from end to end generally in the same direction.

1,679,252. WINDSHIELD FOR AUTOMOBILES. MARY A. LOCKWOOD, Margaretville, N. Y. Filed Apr. 5, 1926. Serial No. 99,996. 1 Claim. (Cl. 20—40.5.)



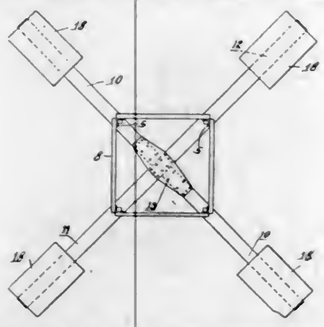
A device of the character described comprising, a frame embodying a base, a pair of side members and a top member, said base being hollow and having a detachable side, and being provided in its upper wall with a longitudinal groove, a longitudinal recess adjacent the detachable side and a longitudinal slot disposed between said groove and recess, said side members having reduced upper ends to form shoulders thereon and being formed with grooves corresponding to the first mentioned groove, transparent panes slidable in the grooves of the side members to seat in the groove and recess in said base, securing strips seated on said shoulders extending in parallel relation to said top member, and being formed with recesses to receive therein the upper edges of said panes, and a heating coil disposed in said base co-extensive with the slot in the upper wall thereof.

1,679,253. COMBINATION STEAM CHAMBER. SPIROS C. MARKATOS, New York, N. Y. Original application filed June 12, 1923, Serial No. 644,980. Divided and this application filed Oct. 21, 1925. Serial No. 64,052. 3 Claims. (Cl. 223—26.)



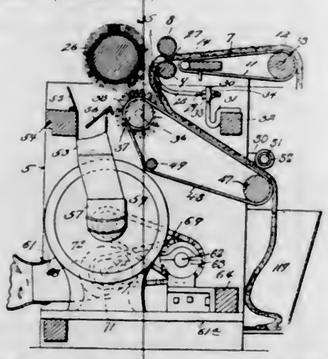
1. In a hat steaming apparatus, a steam chamber for receiving the crown of a hat to be steamed, a cover for closing the chamber after the crown has been steamed, and a laterally projecting brim steaming collar carried by the cover having communication with the chamber.

1,679,254. SUPPORT FOR THE PYLONS OF STAGING AND THE LIKE. CHARLES PIERRE MASSON, Nancy, France. Filed May 27, 1927, Serial No. 194,826, and in France June 10, 1926. 4 Claims. (Cl. 189—21.)



1. A supporting base for pylons, comprising a cruciform iron member resting directly on the ground and to the limbs of which the uprights of the pylon are bolted at points removed from the intersection of said limbs; and weighting devices resting on the ends of the limbs of the cruciform member to render the entire structure stable.

1,679,255. MACHINE FOR TREATING BLANKETS OR FABRICS. JOHN MCCREARY and EDWARD J. MCCREARY, Cohoes, N. Y. Filed Sept. 4, 1925. Serial No. 54,470. 10 Claims. (Cl. 26—37.)

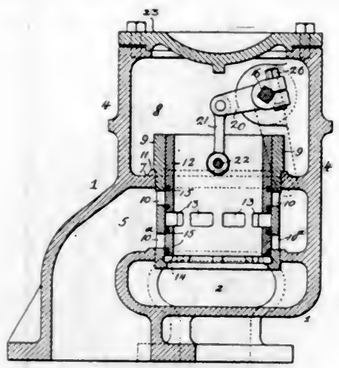


1. In a machine of the class specified, a brushing cylinder, means for feeding a fabric to and holding the fabric in close relation to the said cylinder for napping, delivery means for the treated fabric from the cylinder including downwardly inclined endless belts for moving the treated fabric towards and out through the front of the machine, and yieldingly mounted rollers disposed over and bearing on said belts near the transverse center of the fabric and exerting downward pressure on the fabric and the belts and acting as a holding means for the short length of fabric engaged thereby to maintain the full length of the fabric in regular engagement with the delivery means until relensed from the latter.

1,679,256. PURIFYING ORGANIC LIQUID. CARL MÜLLER, Mannheim, WALTER FRANKENBURGER, Ludwigshafen-on-the-Rhine, and FRIEDRICH GRASSNER, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Aug. 17, 1925, Serial No. 50,850, and in Germany Aug. 30, 1924. 3 Claims. (Cl. 260—156.)

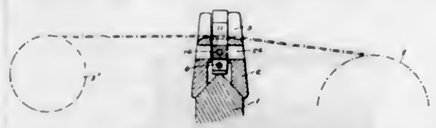
1. A process of removing metal carbonyl from organic liquids containing less than about 10 per cent thereof which consists in exposing the liquid to the action of ultra-violet rays.

1,679,257. THROTTLE VALVE. LAWRENCE L. NEEBE, Woodbury, N. J. Filed Aug. 10, 1926. Serial No. 128,444. 1 Claim. (Cl. 251—78.)



The combination in a smoke-box throttle-valve, of a valve-casing having a transverse passage at its lower end arranged to be coupled to a super-heater, and having a central extension in which is a passage leading to the cylinders, said two passages being separated by a horizontal partition; a chamber above the passage leading to the cylinders and separated from said chamber by a second partition; a bushing extending through both partitions and having two sets of ports therein, one set being above the other set; a cylindrical valve located in the bushing and having a single series of ports arranged to align with the upper series of ports in the bushing when the valve is raised, the lower end of the valve opening the lower series of ports; an operating shaft; an arm on said shaft; and a link connecting the arm with the valve.

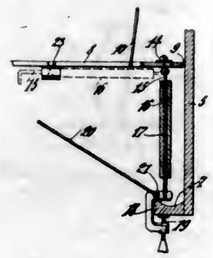
1,679,258. THREAD CLEANER. EUGENE C. NEU, Ridgefield, N. J., assignor to The Schwarzenbach-Huber Company, Union City, N. J., a Corporation of New Jersey. Filed Oct. 28, 1927. Serial No. 229,391. 4 Claims. (Cl. 28—70.)



1. A thread cleaner, comprising a pair of cleaning blades, one of said blades having a notch therein near one end, a spacing blade arranged between said blades, a block secured to said spacing blade and extending into said notch, and means for clamping said cleaning blades against the spacing blade, said notch being of a size to accommodate said block whereby the block will not be brought under tension.

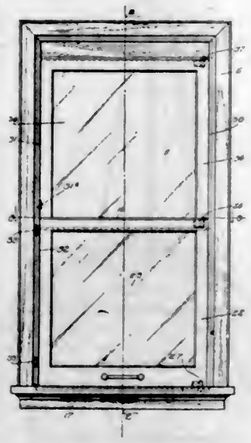
1,679,259. SUPPORTING DEVICE. HUGO NEWMAN, New York, N. Y. Filed Oct. 12, 1926. Serial No. 141,177. 5 Claims. (Cl. 45—51.)

2. In combination with a fixed structure, a supporting member, clamping devices adapted to be detachably engaged with a part of said structure, an adjustable means detachably connected with each of said clamping devices and attached to said member adjacent one end thereof, a bracing member pivotally connected with said clamping devices and means for adjustably pivoting said member to the supporting member adjacent the opposite end thereof, and an additional bracing member pivotally connected with the supporting member adjacent its first named end and adapted for detachable connection to another part of sad structure, sad adjustable means adapted to be detached from said clamping de-



vices to permit the supporting member to be pivotally moved relative to said bracing members to a collapsed position closely adjacent to said structure.

1,679,260. WINDOW STRUCTURE. NICCOLA NICOLAI, Chicago, Ill. Filed Apr. 12, 1926. Serial No. 101,369. 7 Claims. (Cl. 20—48.)



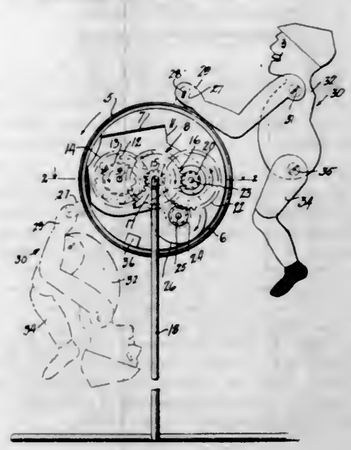
1. The combination of a window-frame, upper and lower frames movable up and down in said window-frame, guides on said window-frame for said upper and lower frames, window-sashes mounted in said upper and lower frames and movable relative thereto, and removable stops on said window-frame for said sashes for holding the latter against displacement in the frames in which they are mounted.

1,679,261. MULTIGRAPH TYPE. JOSEPH C. NORWOOD, San Francisco, Calif. Filed May 31, 1927. Serial No. 195,355. 1 Claim. (Cl. 101—396.)



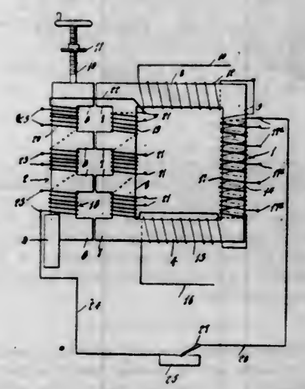
A type slug for use in a printing machine having a bed plate provided with transverse type-receiving slots, comprising a type bearing member, a web portion having its inner extremity flared outwardly and rearwardly to form cam surfaces, a connecting body portion adapted to be removed therefrom, said body portion having cam surfaces formed parallel to said first mentioned cam surfaces, and being cut away substantially half of its width to form a shoulder substantially parallel with the head of the type bearing member and a cam surface parallel with one of said first mentioned cam surfaces.

1,679,262. MECHANICAL CLOWN TOY. HARRY A. OKEL, Pleasanton, W. Va., assignor to The Ferdinand Strauss Corporation, New York, N. Y., a Corporation of New York. Filed June 21, 1927. Serial No. 200,317. 4 Claims. (Cl. 46—40.)



1. In a toy of the nature described, a support, a drum rotatably mounted thereon, a motor in the drum for rotating same about the support, and a jointed figure swingingly suspended from the drum adapted to perform acrobatic stunts substantially as described when the drum is rotated.

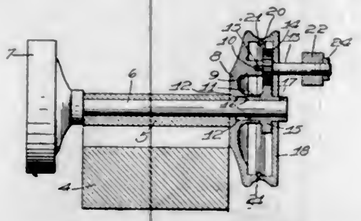
1,679,263. TRANSFORMER FOR ELECTRIC ARC CUTTING, REPAIRING, AND WELDING APPARATUS. FREDERICK C. OWEN, Fayetteville, N. C. Filed Apr. 19, 1927. Serial No. 185,010. 6 Claims. (Cl. 171—119.)



1. A transformer comprising a core embodying relatively fixed and adjustable sections, a primary winding, a secondary winding embodying main and auxiliary coils,

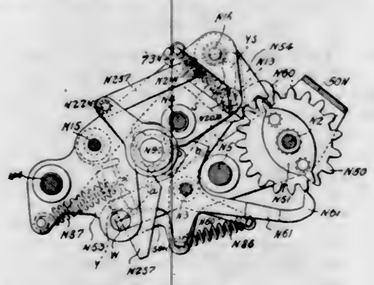
the auxiliary coil embodying sections of which one is mounted on the fixed and the other on the adjustable core section, and means for moving the adjustable core section with respect to the fixed core section.

1,679,264. TRANSMISSION GEARING. ROBERT C. PARKER, La Porte, Ind., assignor of forty one-hundredths to Wilbur D. Cram, La Porte, Ind. Filed Aug. 13, 1927. Serial No. 212,677. 5 Claims. (Cl. 74—34.)



1. A transmission gearing comprising a driven shaft, a casing member mounted on said shaft and revolvable with respect thereto, a stub shaft carried by the revolvable casing member and provided with a bore, a gear fixedly secured to said shaft, a second gear in mesh with said first gear, a crank pin rigidly secured to said second gear on one side thereof, a trunnion secured to said second-named gear on the opposite side thereof and arranged to enter the bore in said stub shaft, a second casing member secured to said first-named casing member for enclosing said gears, said second-named casing member being provided with an opening for the passage of the crank pin, and a connecting rod rigidly secured to said crank pin on the exterior of the casing.

1,679,265. ADDING AND SUBTRACTING ACCUMULATOR. NATHAN W. PERKINS, East Orange, and EMIL JOHN ENS, Newark, N. J., assignors to Ellis Adding Typewriter Company, Newark, N. J., a Corporation of New Jersey. Filed Oct. 19, 1926. Serial No. 142,580. 10 Claims. (Cl. 235—60.)



1. In an adding and subtracting mechanism, the combination with accumulator wheels, of a reciprocatory carrying device for each accumulator wheel, and a single, rockable adding and subtracting controlling mechanism for each wheel adapted to co-operate with the carrying device thereof to shift it in one direction or the other, whereby carrying may be effected either in an adding or a subtracting operation.

1,679,266. FASTENER. RION C. PLACE, Detroit, Mich., assignor of one-half to George E. Gagnier, Detroit, Mich. Filed Nov. 25, 1927. Serial No. 235,638. 11 Claims. (Cl. 24—106.)

1. A spring fastener complete in itself comprising a head, a pair of arms secured to said head, and a resilient holding element carried by each of said arms and extending away from said head, said holding elements being disposed in a plane normal to said head and arranged normally in divergent relation to each other but being



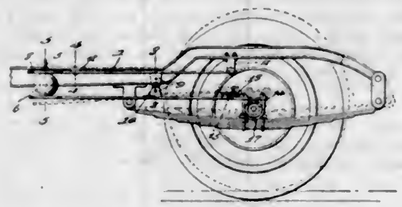
capable of being brought into approximate side by side arrangement in opposition to the torsion set up in said arms, whereby said torsion tends to firmly return said elements to their divergent position.

1,679,267. COMBINED WALKING STICK AND TRIPOD. CLARA RIEGER, Reutlingen, Germany. Filed Sept. 10, 1927. Serial No. 218,769, and in Germany Sept. 10, 1926. 6 Claims. (Cl. 248—44.)



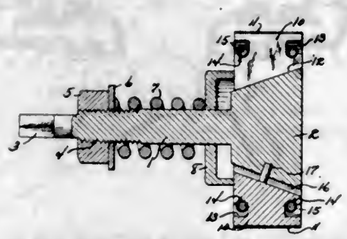
1. A triped stick comprising in combination an outer casing, a hollow semi-cylindrical tube adapted to slide therein, a head on said tube, and two telescopic legs articulated to said head, the said legs being exteriorily of semi-cylindrical shape and adapted to fit against the interior surface of said semi-cylindrical tube.

1,679,268. SHOCK ABSORBER. TOM A. RIGNEY, Laurel, Mont. Filed Jan. 19, 1927. Serial No. 162,094. 1 Claim. (Cl. 267—31.)



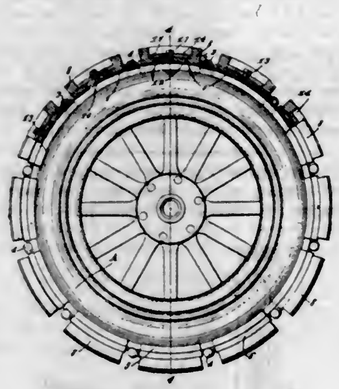
A shock absorber for a vehicle comprising a supporting bar, means for connecting the bar to a part of the vehicle, a pneumatic sphere carried by one end of the supporting bar, a lever pivoted to the supporting bar and having one end engaging the sphere, the other end of the lever having an elongated eye formed thereon, a plate, a pivot pin carried by the plate and passing through the eye and means for fastening the plate to an axle of the vehicle.

1,679,269. SECTIONAL ABRASIVE REAMER. RALPH S. RODGERS, Pittsburgh, Pa., assignor of one-fourth to James E. Harmon and one-fourth to Ike J. Nelson, Pittsburgh, Pa. Filed Jan. 27, 1926. Serial No. 84,229. 1 Claim. (Cl. 51—206.)



A reamer, comprising a cone carrying shank, a reamer head comprising a circular member having an abrasive face and made up of segments the inner faces of said segments being complemental to and resting against the cone, said segments having continuous sockets in their end faces spaced from the outer abrasive faces thereof, endless coiled springs received in said sockets, means holding the segments from circumferential movement on the cone, but permitting longitudinal movement thereof, a flanged collar on the shank contacting with the segments, a nut screwed on the shank, a helical spring on the shank, contacting with the collar and a washer engaged by the nut and contacted by the spring.

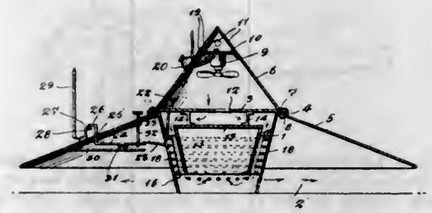
1,679,270. ANTISKID DEVICE FOR AUTOMOBILES. IGNATZ ROLKA, Gallitzin, Pa. Filed Sept. 12, 1927. Serial No. 219,142. 2 Claims. (Cl. 152—16.)



1. An anti-skid device of the character described comprising a plurality of sections hingedly secured together to encircle a vehicle tire, a base member included in each section, a recessed elastic block for each base member, projection carrying means arranged in the recesses of the blocks, and means for securing the projection carrying members and blocks respectively to the base members thereof.

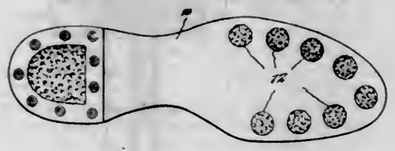
1,679,271. BROODER. WILLIAM CROCKER SANCTUARY and WENDELL ALBERT JONES, Amherst, Mass. Filed June 14, 1924. Serial No. 720,010. 3 Claims. (Cl. 119—33.)

1. A brooder comprising a frusto-conical heater drum disposed in inverted position, a cover plate for said heater drum, said cover plate extending at its marginal edge beyond said heater drum, a frusto-conical hover plate surrounding said heater drum and attached to the extending marginal portion of said cover plate, said cover plate having a central opening and said heater drum



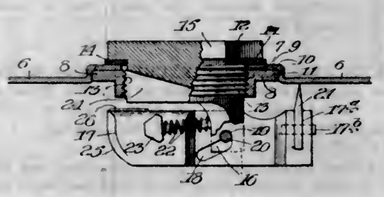
having an outlet adjacent to its lower end, a heating element disposed in said heater drum, and means disposed above said cover plate for forcing air through said central opening of the cover plate into and through said heater drum.

1,679,272. HEEL. FREDERICK A. SCHULTZ, Hasbrouck Heights, N. J. Filed Dec. 31, 1925. Serial No. 78,605. 1 Claim. (Cl. 36—59.)



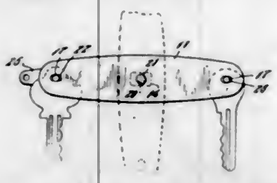
A heel tread section comprising a heel shaped body formed of yieldable material, and having an open pocket located therein, a pad of relatively softer yieldable material carried in said pocket, said body portion having a series of fastener receiving sockets formed therein and surrounding the pocket, a non-yielding element embedded in said body portion, completely surrounding the pocket, and having openings coinciding with the sockets in the body portion for the reception of said fasteners, whereby the body portion will be reinforced and said pad will be retained in said pocket.

1,679,273. CONTAINER. SAUL SCHWARTZ, Chicago, Ill., assignor to Henry Schwartz, Chicago, Ill. Filed June 11, 1927. Serial No. 198,241. 16 Claims. (Cl. 220—48.)



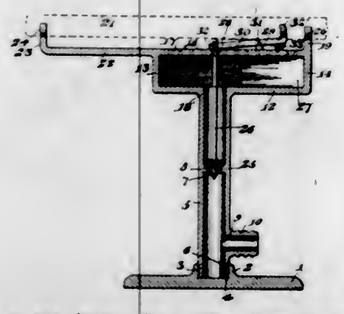
1. The combination with a container having a threaded opening, of a threaded closure-plug for said opening provided with means operating upon the unscrewing of said plug to mutilate the portion of the container in which said threaded opening is provided beyond the thread thereof.

1,679,274. KEY CONTAINER. DOUGLAS SETTLE, San Diego, Calif. Filed Aug. 10, 1927. Serial No. 212,037. 3 Claims. (Cl. 59—96.)



2. A key container comprising a pair of spring plates, a spacing member extending from and having one of its ends secured to one of said plates and its other end having a pivotal connection with the other plate, and key posts at opposite ends of and secured to one of said plates and having a detachable connection with the other of said plates.

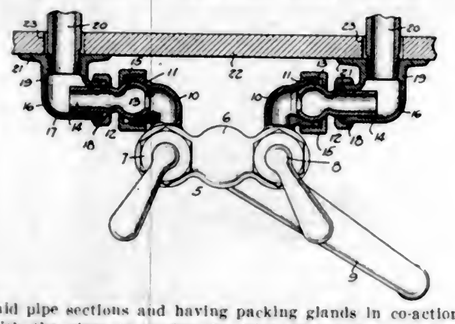
1,679,275. CURLING-IRON HEATER. JOHN T. SHOEMAKER, Flint, Mich., assignor, by direct and mesne assignments, to Flint Automatic Heater Company, a Corporation of Michigan. Filed Oct. 29, 1926. Serial No. 145,027. 2 Claims. (Cl. 126—238.)



1. In a gas heater for curling irons including a burner element formed with a gas receiving chamber having an opening in its top wall, a gas supply means opening into the chamber through the bottom wall thereof and provided with a valve seat, the combination of a valve stem extending through said opening and chamber and into said gas supply means and provided at its inner end with a valve coacting with said seat, a lever arranged over the top wall of said chamber, a pin and slot connection between the said lever and the outer end of said stem above said top wall, means for pivotally connecting said lever at a point between its transverse median and its outer end to said top wall, a tool engaging portion extending upwardly from the outer end of said lever and carried by the latter, and a controlling spring interposed between the outer end of said lever and said top wall.

1,679,276. PLUMBING FIXTURE. HENRY W. SLINING, Los Angeles, Calif., assignor to Republic Brass & Mfg. Co., Los Angeles, Calif., a Corporation of California. Filed Oct. 27, 1926. Serial No. 144,524. 1 Claim. (Cl. 277—52.)

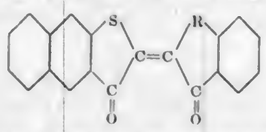
A fixture formed with a mixing chamber and provided with integral elbows having flared terminal seats opening, respectively, in opposite directions, each elbow formed with an external thread outwardly of its flared seat, coupling sleeves adjustable on the threads of said elbows, pipe sections extending through the sleeves and having apertured ball portions mounted in the respective sockets and adapted to be brought into water-tight frictional contact with the walls of the sockets when the coupling sleeves are adjusted in one direction, the pipe sections adapted to be tilted with respect to said elbows, and elbows mounted for longitudinal sliding movement on



said pipe sections and having packing glands in co-action with the pipes to render the joints therebetween water-tight.

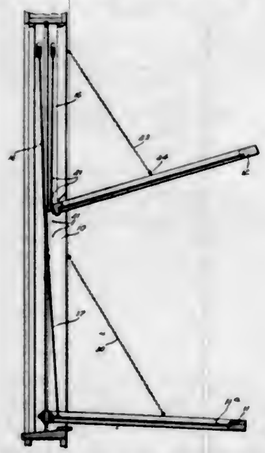
1,679,277. INDIGOID DYESTUFF. HERMANN STAUDINGER, Zurich, RICHARD TOBLER and ROBERT STOCKER, Basel, JAKOB MÜLLER, Munchenstein, near Basel, and ARMIN BUCHER, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Nov. 24, 1923, Serial No. 676,858, and in Switzerland Dec. 7, 1922. 9 Claims. (Cl. 260—53.)

3. As new products the unsymmetrical indigoid dyestuffs which are characterized by the atom grouping



wherein the naphthalene nucleus is halogenized, R standing for NH or S and in which the benzene nucleus may carry substituents, which dyestuffs form red-violet to brown-black and green-blue powders which dissolve in concentrated sulfuric acid with red-violet to blue and olive green color, yielding with hydrosulfite and caustic soda solution yellow to orange and brown vats which dye cotton fast red-violet to green-blue tints.

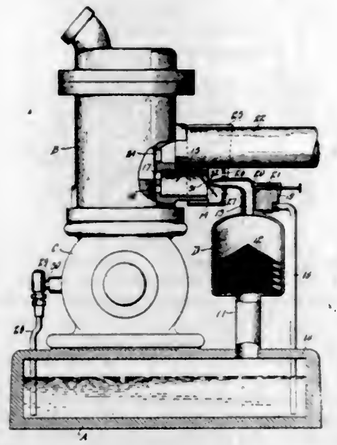
1,679,278. WINDOW CONSTRUCTION. JACOB SUTER, West New York, N. J. Filed Mar. 18, 1927. Serial No. 176,506. 2 Claims. (Cl. 20—43.)



1. A window including a frame, upper and lower sliding sashes therein, parting strips and moulding strips guiding

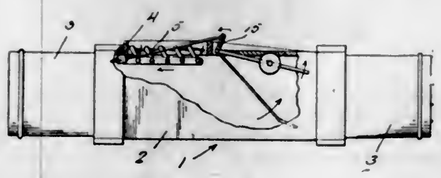
the sliding movement of the sashes and including lower removable sections to permit the sashes to be swung inwardly, means for holding the sashes in inwardly and upwardly swung position when the lower strip sections are removed, including levers pivoted to the inner face of the frame and swinging inwardly under the upwardly swung sashes in planes parallel to the planes of sliding movement of the sashes.

1,679,279. CHARGE-FORMING DEVICE. IRA T. SWARTZ, Indianapolis, Ind., assignor, by mesne assignments, to Ira T. Swartz, trustee, Indianapolis, Ind. Filed June 30, 1920. Serial No. 393,116. 8 Claims. (Cl. 123—134.)



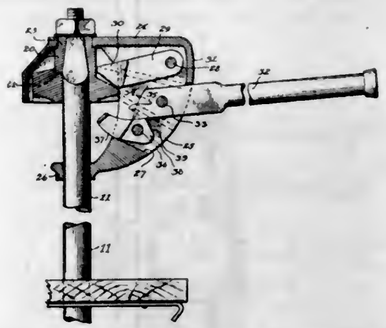
1. An apparatus for forming combustible gas comprising a liquid fuel tank, a crank-case and a motor disposed one above the other, means of communication between the cylinder of said motor and said crank-case and between said crank-case and said fuel tank, a gas-dome connected with the top of said tank, a nozzle leading from said gas-dome to a mixing chamber, a pipe leading to said nozzle from within the bottom of said fuel tank, and means for varying simultaneously the supply of fuel from said nozzle and the supply of air from the outside to said mixing chamber, substantially as set forth.

1,679,280. COTTON REGULATOR. EUGENE S. TOWNS, Pharr, Tex. Filed Aug. 4, 1927. Serial No. 210,577. 5 Claims. (Cl. 19—72.)



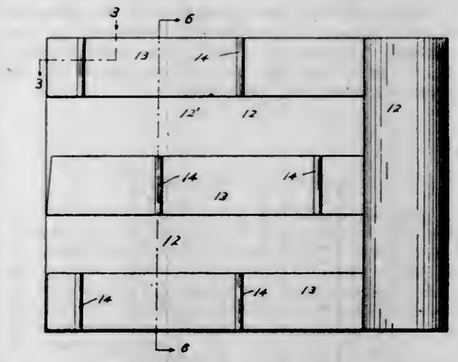
1. A cotton regulator for use in association with a cotton gin comprising a suction conduit thru which the cotton is adapted to flow, said conduit provided with an air inlet port for retaining a substantially constant mixture of air and cotton in these conduits, and means for producing said constant mixture embodying a control valve for said air port which is automatically operated by the amount of cotton passing through said conduit.

1,679,281. SAFETY REVERSE RATCHET BRAKE. GEORGE VAN BRIMER, HOMER A. MAGRATH, JOHN KLANCHER, and BURL SOOTS, Pueblo, Colo. Filed Jan. 23, 1926. Serial No. 83,333. 3 Claims. (Cl. 74—54.)



1. In a mechanism for the purpose described, a rotatable shaft, a bracket rotatably mounted on said shaft, right hand and left hand ratchets fixed on the shaft, a pawl pivoted to said bracket and movable into and out of engagement with the first ratchet, a second pawl also pivoted to the bracket and movable into and out of engagement with the second ratchet, and a lever pivoted between said pawls on said bracket to swing in a plane radially of the shaft, said lever having a short end which, in its lowered position, engages the under side of the first said pawl forward of its pivot to lift it out of engagement with the ratchet and bears laterally against the second pawl rearward of its pivot to swing it up into engagement with the ratchet, and said lever, when swung into its uppermost position, disengages both pawls, whereby the first pawl drops into engagement with its ratchet and the second pawl drops away from its ratchet.

1,679,282. WALL CONSTRUCTION. GEORGE F. VOIGHT, Oakland, Calif., assignor to Economy Products Corporation, a Corporation of California. Filed July 26, 1922. Serial No. 577,595. 3 Claims. (Cl. 72—120.)

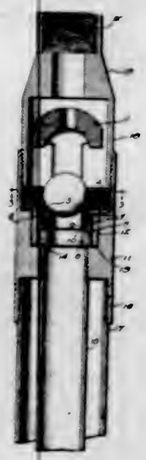


2. In means of the character described, a sheathing paper having an inner layer with an outer layer in separated strips, said strips being corrugated to form spacing ribs.

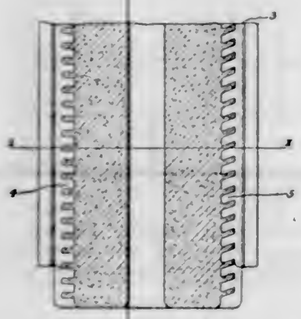
1,679,283. VALVE FOR OIL PUMPS. LOUIE F. WELLS and OLIVER C. WHITLING, Bryant, Okla. Filed May 10, 1924. Serial No. 712,482. 1 Claim. (Cl. 251—121.)

In a well pump, the combination with a collar having an internally threaded bore enlarged at its upper end defining a stop shoulder, of a standing valve including a

sleeve externally threaded in the enlarged portion of the bore and having its lower end seating against the shoulder and a cage above the sleeve, the sleeve being internally reduced at its upper end defining a stop shoulder and provided with internal threads below the shoulder, a removable valve seat including a ring and an outwardly extending rib at a point equidistant its ends fitted against the shoulder in the sleeve, a tubular retaining member threaded into the sleeve against the rib and having an enlarged opening at its upper end to snugly receive the portion of said ring below the rib, the lower end of said retaining member being seated on the shoulder of said collar, and a ball valve for the seat.

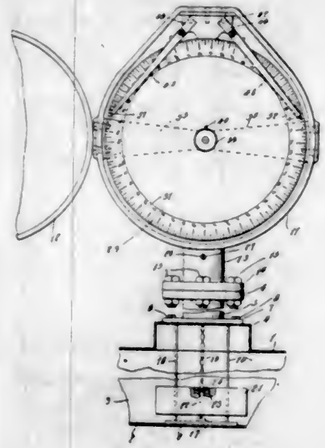


1,679,284. PROCESS FOR PRODUCTION OF SELF-BAKING ELECTRODES. JENS WESTLY, Christiansand, Norway, assignor to Det Norske Aktieselskab for Elektrokemisk Industri of Norway, Oslo, Norway. Filed Jan. 5, 1925, Serial No. 712, and in Norway Jan. 17, 1924. 9 Claims. (Cl. 266—1.6.)



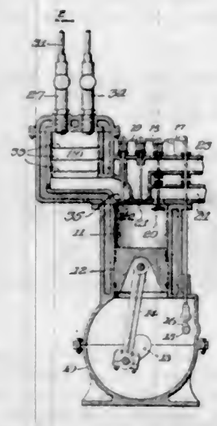
1. A selfbaking electrode having a mantle of one composition, non detrimental to the process in connection with which the electrode is being used, and internally projecting ribs of another composition attached to said mantle.

1,679,285. GAUGE AND RECORDER. HENRY F. WRIGHT, Huntington, Calif. Filed Apr. 14, 1927. Serial No. 183,737. 7 Claims. (Cl. 234—10.)



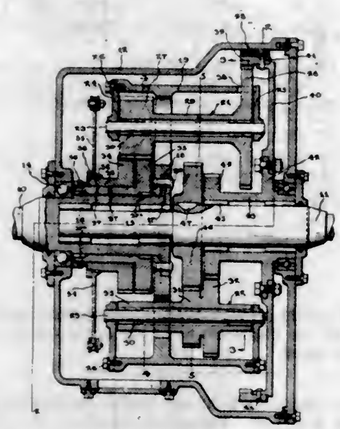
1. A device of the character set forth, comprising a support, a dial rotatably mounted on the support, a float, means establishing an operative connection between the dial and float, a chart carried by the dial, markers mounted for swinging movement with respect to the chart and for movement into and out of operative position with respect to the chart, means adapted during the movement of the dial in one direction to hold one of the markers in inoperative position and adapted during the movement of the dial in the opposite direction to hold the other marker in inoperative position and means for swinging the marker in operative position.

1,679,286. INTERNAL-COMBUSTION ENGINE. WLADIMIR M. ZAIKOWSKY, Pasadena, Calif., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Oct. 24, 1925. Serial No. 64,544. 5 Claims. (Cl. 123—1.)



1. The method of operating a reciprocating internal combustion engine having a cylinder comprising compressing the charge partly in the cylinder and partly in a chamber connected thereto, and feeding a liquid to be vaporized to said chamber whereby the vaporization of said liquid will cool the charge in said chamber, and causing said chamber to communicate with said cylinder on the compression stroke only, said chamber receiving a substantial portion of the charge.

1,679,287. TRANSMISSION. ZENO ALEXANDER, Kansas City, Mo. Filed Dec. 20, 1927. Serial No. 241,357. 10 Claims. (Cl. 74—34.)



1. A transmission comprising driving and driven members, a planet carrier operatively connected with the driving member, a rotary member, sets of planetary gears of which one set operatively connects the driven member and the rotary member and the other set is operatively connected with the rotary member, and a governor operatively connected with said other set to control the axial rotation of the same.

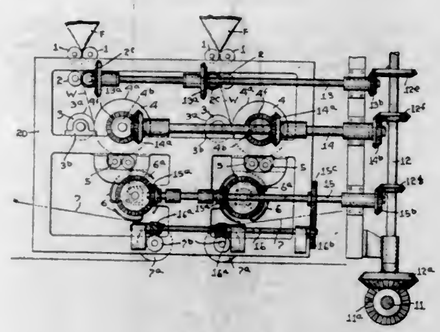
1,679,288. WEATHERPROOF SIGN. GEORGE H. ALLEN, Clinton, N. Y. Filed Nov. 19, 1926. Serial No. 149,489. 3 Claims. (Cl. 40—135.)



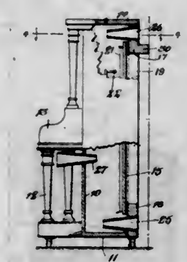
1. A weatherproof sign consisting of a translucent sheet and an opaque sign sheet having sign characters cut therefrom, the two sheets being superimposed and impregnated and coated with a waterproof coating which unites them.

1,679,289. CHANGEABLE ROTARY FOLDER. HENRY F. BECHMAN, Battle Creek, Mich., assignor to Duplex Printing Press Company, Battle Creek, Mich., a Corporation of Michigan. Filed Sept. 13, 1924, Serial No. 737,552. Renewed Feb. 9, 1928. 6 Claims. (Cl. 270—76.)

1. A rotary folder having cutting and folding cylinders interchangeable with like cutting and folding cylinders of different size in order to cut and fold different lengths of sheets; means for relatively adjusting the cylinders in the folder according to their size; second fold rolls adapted to receive the sheets from the folding cylinder; and means for adjusting the second fold rolls in accordance with the size of the folding cylinder.



1,679,290. UPRIGHT PIANO. VETAL BESSIER, Brooklyn, N. Y. Filed May 15, 1926. Serial No. 109,887. 9 Claims. (Cl. 84—189.)



3. An upright piano casing including a sounding board arranged at the rear portion thereof, and means providing passageways for the sound waves to escape from the space in the interior of the casing forwardly of the sounding board including amplifying horns extending through the back of the casing below and above the sounding board, and having their inner ends disposed in front of the sounding board.

1,679,291. CUSHIONING HANDLE FOR PNEUMATIC TOOLS. STANLEY BYERS, Bedford, Ind. Filed June 17, 1926. Serial No. 116,699. 1 Claim. (Cl. 121—36.)

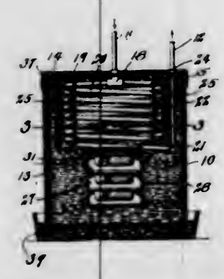
In combination with a pneumatic tool having a barrel, a piston reciprocable in the barrel and having an impact member at its forward end, said barrel having a socket, a bit having a portion of its shank receivable in the socket and adapted to be engaged with the impact member of the piston when pressed inwardly, a combined casing and handle enclosing the barrel and having a socket receiving a portion of the shank of the bit, releasable means co-operable with the bit for holding it in inoper-

ative position out of the field of action of the impact member of the hammer, and a spring engaging the barrel of the hammer and the bit to urge the bit outwardly out



of the field of operation of the impact member of the hammer until and unless the bit is pressed against the work.

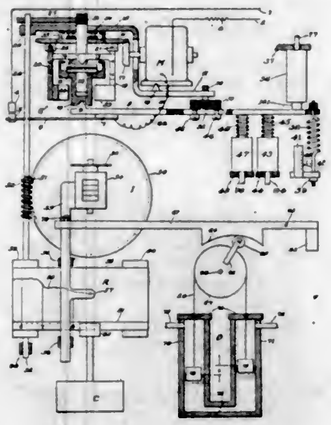
1,679,292. COOLING TANK. JOHN O. CARREY, St. Louis, Mo., assignor to Carrey-Morse Engineering Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 27, 1924. Serial No. 702,363. 1 Claims. (Cl. 62—95.)



1. A cooling tank for refrigerating systems comprising an open topped container, a removable cover therefor, an expansion coil secured to and extending from said cover into said container, an inlet and an outlet connection for said expansion coil, a horizontally disposed sump arranged below said coil and connected to the discharge end of said expansion coil and said outlet connection and a fibrous covering for said tank, said covering being kept saturated with a non-freezing medium to prevent formation of ice and snow on said tank.

1,679,293. METER. CLARENCE A. DAWLEY, Plainfield, N. J. Filed Nov. 13, 1923. Serial No. 674,531. 3 Claims. (Cl. 73—167.)

3. In a flow meter for variable density fluids, a displaceable member, means under the influence of the fluid density and tending to displace said member, a member displaceably opposed to said first named member, a motor, a centrifugal member driven by the motor and operatively

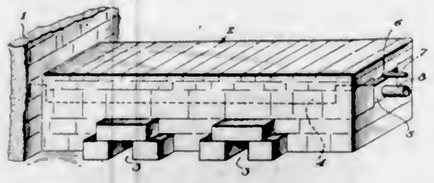


connected to said displaceably opposed member, and means governed by the displacement of the latter for controlling the motor speed.

1,679,294. TREATMENT OF ORES OF COPPER AND OTHER METALS. FERDINAND DIETZSCH, Kingston-on-Thames, England. Filed Oct. 31, 1927. Serial No. 230,170, and in Great Britain July 7, 1926. 4 Claims. (Cl. 75—18.)

4. A process for treating copper sulphide ores, which consists in mixing the ore with an alkali sulphate in proportion not exceeding 2 per cent of the weight of the ore, roasting the mixture, and finally extracting the values.

1,679,295. BRIDGE WALL FOR GLASS TANKS. ALFRED W. DODGE, Zanesville, Ohio, assignor to Hazel-Atlas Glass Co., Wheeling, W. Va., a Corporation of West Virginia. Filed Jan. 13, 1927. Serial No. 160 918. 14 Claims. (Cl. 49—54.)

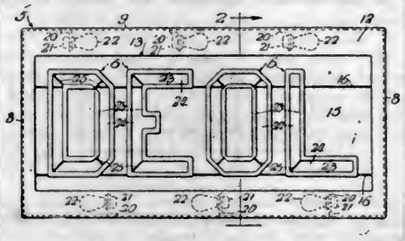


1. A bridge wall for glass tanks, having a trough in the interior thereof, the side walls and bottom of said trough formed of the refractory material of the bridge wall, and means for circulating cooling water in said trough in contact with the refractory material.

1,679,296. ILLUMINATED SIGN AND LETTER THEREFOR. CHARLES B. EHNBORN, Glen Ellyn, Ill., assignor to Thomas Cusack Company, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 24, 1924. Serial No. 708,618. 2 Claims. (Cl. 40—133.)

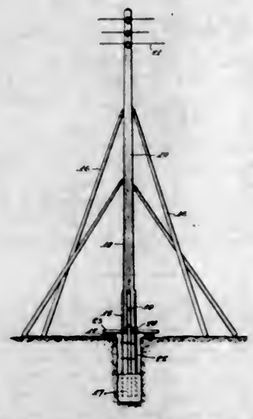
1. An illuminated sign comprising in combination, an open front casing having a light reflecting background, vertically spaced rods extending longitudinally of the open front of the casing, letter members re-

movably supported and longitudinally shiftable on said rods, each letter member including spaced strips defining



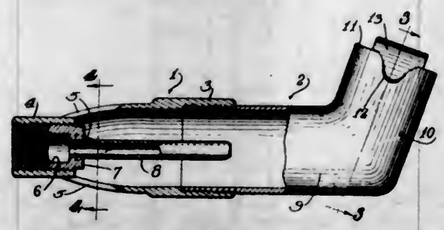
the out-line of a letter in contrast to said light reflecting back-ground, and concealed means in the casing for illuminating said light reflecting back-ground.

1,679,297. METHOD AND APPARATUS FOR PLACING POLES. ALBERT EHRLER, New York, N. Y. Filed Feb. 20, 1925. Serial No. 10,669. 3 Claims. (Cl. 72—83.)



1. The combination with a pole, of a concrete base for the pole, a plurality of channel bars having their lower ends embedded in the base, and their upper ends projecting from the base and secured to the pole, one of the upper end portions of said bars being in two sections, and means for securing the sections together above the ground, said means consisting of a plate in the channel of the sections and screws or bolts passing through the plate and sections into the pole.

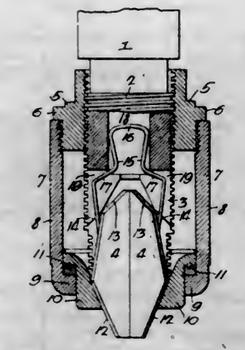
1,679,298. GAS BURNER. SILAS M. EVANS, Sand Springs, Okla. Filed Apr. 5, 1927. Serial No. 181,192. 4 Claims. (Cl. 158—99.)



1. In a burner of the character described, a burner body comprising a gas and air mixer section and a burner tip section, said mixer section having air inlet openings in its side wall, a gas nozzle inclosed therein, the burner tip section being in the form of an elbow

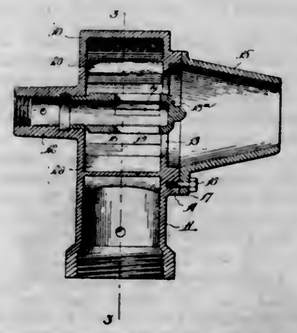
a pair of outwardly divergent plates at the outlet end of the burner tip, the wall of the burner tip at its outer end being cut away and underlying the divergent plates to cause lateral projections of the flame jet, and the inner adjacent ends of the plates being spaced to permit an axial flame projection.

1,679,299. CHUCK. THOMAS J. FEGLEY and GEORGE O. LEOPOLD, Philadelphia, Pa., assignors to North Bros. M'f'g. Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 31, 1923. Serial No. 660,358. 1 Claim. (Cl. 279—56.)



The combination in a chuck, of a body portion having an external screw-thread, and having a transverse slot at its outer end, the walls of the slot having inclined bearing portions, the body portion also having a central opening extending inwards from the slot; two jaws mounted in the slot, said jaws having beveled ends, the inner ends of the jaws arranged to slide on the inclined bearing portions of the body; a U-shaped spring having a reduced portion extending beyond the jaws and into the central opening, the arms of the spring having shoulders located in the inner portion of the transverse slot in the body and beyond the jaws and extending back of the jaws, said arms being connected to the jaws at their outer ends; a casing; a sleeve secured thereto, said sleeve being mounted on the threaded portion of the body; and a bearing carried by the casing and having a conical opening through which the beveled ends of the jaws extend.

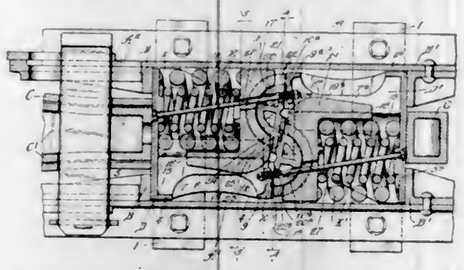
1,679,300. BURNER. CARL FISCHER, West Homestead, Pa., assignor to American Heat Economy Bureau, Pittsburgh, Pa., a Corporation of Delaware. Filed Mar. 24, 1927. Serial No. 178,047. 6 Claims. (Cl. 158—99.)



1. A burner comprising a body portion having a commingling chamber with fuel and air inlet openings leading into the same at right angles to each other and a

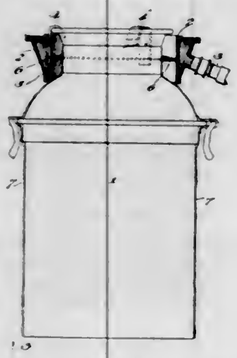
discharge opening in one side, a fuel discharging tube leading into the commingling chamber from the fuel inlet openings and having tangential discharge openings, a series of baffle-plates in the commingling chamber surrounding the fuel discharging tube, and a contracted nozzle attached to the body portion to receive the admixture of fuel and air from the discharge opening of the commingling chamber.

1,679,301. DRAFT GEAR. JOSEPH E. FORSYTH, Chicago, Ill., assignor to Forsyth Draft-Gear Corporation, a Corporation of Illinois. Filed Mar. 6, 1926. Serial No. 92,764. 4 Claims. (Cl. 213—27.)



1. In a draft-gear, the combination of a pair of opposed follower-blocks, each presenting an inner end bearing abutment and each carrying a coil-spring and a spring-cap, and a two-member rock-lever interposed between the spring-caps and the opposed bearing abutments of the follower-blocks.

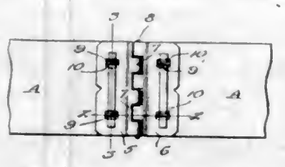
1,679,302. MILK-COOLING DEVICE. HERMAN J. FOSTER, Stowe, Vt. Filed Aug. 27, 1926. Serial No. 132,021. 2 Claims. (Cl. 257—189.)



2. A milk cooler comprising an annular reservoir including an inner wall and an outer wall through the latter of which water may be introduced, the inner wall provided with a circumferential row of perforations substantially midway its upper and lower edges whereby a continuous spray of water may be directed against and around the neck of a milk can, said inner wall also provided with clips to suspend the reservoir from the rim of the can neck and spaced from the said neck, said inner wall constituting a baffle to prevent entrance of the spray into the milk can.

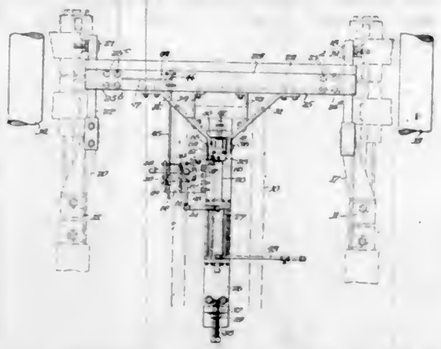
1,679,303. BELT COUPLING. PHILLIP FRUHOF, Norfolk, Nebr. Filed Aug. 29, 1927. Serial No. 216,249. 2 Claims. (Cl. 24—33.)

1. A belt coupling comprising a pair of members hingedly connected together, each member being formed with two limbs to receive a belt end between them, an eye forming member carried by one limb, the other limb having a slot therein to receive the eye forming member and the belt end also having a slot therein to receive



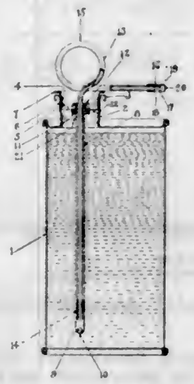
said member and a member adapted to be passed through the end of the eye forming member to hold the parts assembled.

1,679,304. LOOPING AND GUIDING DEVICE FOR ROLLING MILLS. RANDOLPH B. HANCOCK, Gary, Ind. Filed Aug. 9, 1923. Serial No. 656,548. 15 Claims. (Cl. 80—51.)



1. In combination a pair of roll stands, a guide extending between said roll stands, the guide comprising a pair of separable members one of said members having a channel therein and means controlled by the passage of the bar through the said channel whereby the member having the channel therein is pulled away from the other member, the members being separable in a horizontal direction whereby clearance is allowed to a bar passing between the roll stands.

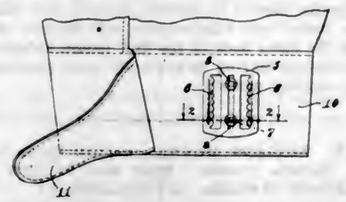
1,679,305. ATOMIZER. H. HOWARD HELLER, Sound Beach, Conn. Filed Aug. 23, 1921. Serial No. 494,535. 2 Claims. (Cl. 299—97.)



1. An atomizer for use with a container having a tapering nozzle comprising an air-vented recess-forming member adapted to be pushed into said nozzle and having

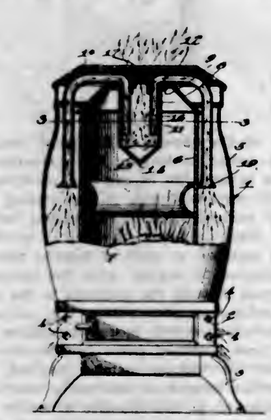
a rim to extend thereabove, an outer tube extending through said member, an inner tube adapted to reciprocate within the outer tube and provided with a piston at its lower end, separate devices exteriorly mounted on said outer tube fastening the same to said member one forming a guide for said outer tube, and means at the upper end of said inner tube for spraying liquid expelled therefrom by downward movement of the piston, said inner tube having a laterally projecting portion adapted to engage the rim of said member to limit such movement.

1,679,306. SLIDE BUCKLE. FRED HIRSH, New York, N. Y., assignor to Adjusta Company, New York, N. Y., a Corporation of New York. Filed Feb. 2, 1925. Serial No. 6,244. 3 Claims. (Cl. 24—169.)



3. A buckle of the type described comprising a body pierced to form a plurality of transverse bars and intermediate slots, the inner edges of the two outer bars being notched and upset to provide inturned lips with blunt teeth, and, as means for its attachment, two rivets fixed in transverse spaced relationship centrally thereof.

1,679,307. AIR CIRCULATOR FOR STOVES. WILLIAM G. HUTCHISON, Portsmouth, Ohio. Filed Nov. 28, 1927. Serial No. 236,215. 3 Claims. (Cl. 126—67.)

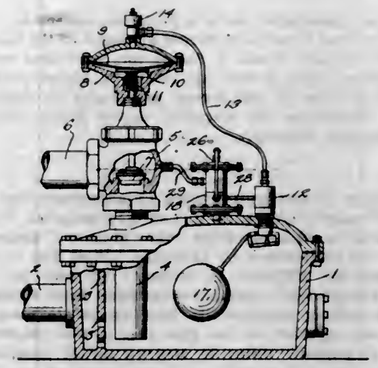


1. The combination with a stove having inner and outer spaced walls surrounding a fire box with an opening in its upper end; of a heated air circulator comprising a hollow body member, insertable through said opening and having means for supporting it therein, and a tubular arm associated with said body and having a free open end located in the space between the walls of the stove, said stove having air inlets between said walls.

1,679,308. METHOD OF PLATING METALS WITH ALUMINUM. FRANZ JORDAN, Wickede-on-the-Ruhr, Germany. Filed July 7, 1927, Serial No. 204,134, and in Germany Feb. 11, 1926. 1 Claim. (Cl. 29—189.)

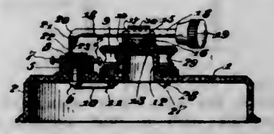
The method of coating metal plates comprising feeding through rolls upper and lower continuous aluminum strips unwound from reels, introducing heated plates successively between the strips whereby both strips and plates are subjected to the pressure of the rolls to effect intimate cohesion between plates and strips whereby a continuous strip of compound metal stock is formed and separating the stock at points between the plates to form individual pieces of coated metal.

1,679,309. STEAM TRAP. HENRY W. JUSTUS, Napanoch, N. Y. Filed Apr. 28, 1927. Serial No. 187,241. 3 Claims. (Cl. 137—103.)



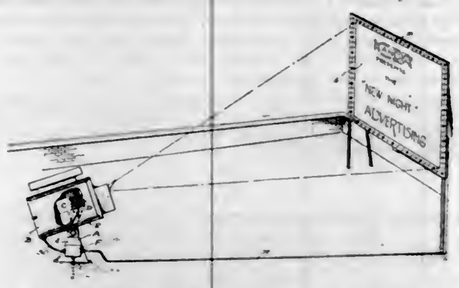
1. In combination with a steam trap and its controlling valve, means for normally holding the valve in open position, a diaphragm chamber associated with the valve, a diaphragm in the chamber, means for supplying steam to the diaphragm chamber from the trap to cause the diaphragm to close the valve, a float operated valve for controlling the supply of steam to the diaphragm chamber, a casing having an exhaust chamber and upper and lower diaphragm chambers therein and a passage connecting the exhaust chamber with the lower diaphragm chamber, a diaphragm in each diaphragm chamber, the lower chamber having its lower part in communication with the trap, means for placing the upper part of the top diaphragm chamber in communication with the passage, a valve for controlling communication between the passage and the exhaust chamber, stems on the valve engaging the upper and lower diaphragms and means for placing the passage in communication with the means for connecting the trap with the main diaphragm chamber above the float operated valve.

1,679,310. DETECTOR APPARATUS. ARTHUR ATWATER KENT, Ardmore, Pa. Filed May 28, 1923. Serial No. 641,835. 16 Claims. (Cl. 250—31.)



1. In a detector, a member rotatable in but one plane and having a groove in a face thereof, a rod disposed in said groove for longitudinal and rotative movement therein, and a detector element carried by said rod.

1,679,311. AUTOMATIC ADVERTISING PROJECTING AND DISPLAY APPARATUS. ADMIRAL S. KNOTT, Columbus, Ohio. Filed June 21, 1926. Serial No. 117,435. 5 Claims. (Cl. 88—24.)

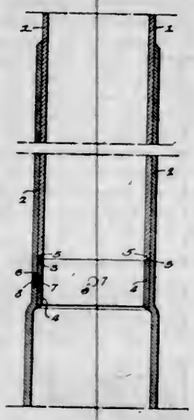


1. In combination with a projector screen, an incandescent lamp illuminated border arranged on the marginal surface of said screen, a flasher for controlling said incandescent lamp border, an automatic stereopticon projector focussed on said screen, and means for simultaneously controlling the operation of said flasher and said stereopticon projector.

1,679,312. SYNTHETIC RESIN AND METHOD OF MAKING SAME. GUSTAVE E. LANDT, Norristown, Pa., assignor to Diamond State Fibre Company, Bridgeport, Pa., a Corporation of Delaware. Filed Feb. 7, 1927. Serial No. 166,597. 12 Claims. (Cl. 260—4.)

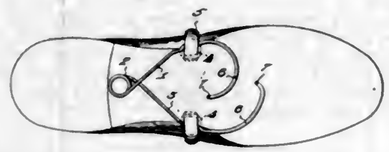
1. The process of making a synthetic resin which comprises causing substantially pure xylenol to react with a second reactant of the type that is used in preparation of phenolic resins to give an initial condensation product which is capable of being converted by further heating into a hard, infusible, insoluble resin.

1,679,313. FLAGPOLE CONSTRUCTION. ARCHIBALD E. LINGO, Collingswood, N. J. Filed Apr. 28, 1925. Serial No. 26,514. 3 Claims. (Cl. 189—26.)



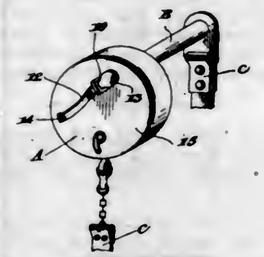
1. A sectional flag-pole construction, one section of which is provided with a ring adapted to form a shoulder, said ring and said section being recessed, and added metal in said recess welded to said ring and said section so as to rigidly secure the ring in position, another section of said pole being supported on said shoulder.

1,679,314. ANTISLIP DEVICE. JOHN B. LOCKER, St. Louis, Mo. Filed May 13, 1927. Serial No. 191,133. 1 Claim. (Cl. 36—59.)



An anti-slip device comprising a generally loop-shaped member having a pair of crossed spring arms and means thereon for engaging a shoe sole; said arms terminating at their forward ends in extensions curved forwardly and laterally inward in spaced relation and adapted to rest one under and adjacent the ball portion of a shoe sole and the other back of the first named extension, and both extensions having downwardly bent portions forming anti-slipping means.

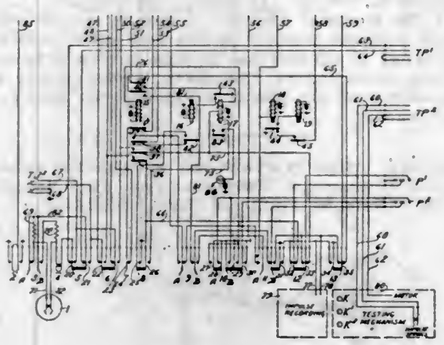
1,679,315. SEALING MEANS. ARCHIE EDGAR LOW, Ottawa, Ontario, Canada. Filed Mar. 22, 1927. Serial No. 177,419. 9 Claims. (Cl. 292—307.)



1. A device of the character described comprising in combination, a casing, a locking bolt extending through and protruding beyond the casing and provided with an opening therethrough, openings in the casing, a locking member rigidly mounted within the casing between said openings and communicating therewith, spring locking means in said member, a strip of flexible metal formed with a seal adapted to engage with the opening in the bolt and to extend through the openings in the casing and through the locking member within the casing, and to travel freely in one direction, means formed on said strip adapted at a predetermined point in the travel thereof to engage with the locking member to lock the strip and means further formed on said strip adapted on the strip being tensioned in the opposite direction to engage with the locking member at two different points simultaneously to double lock the strip.

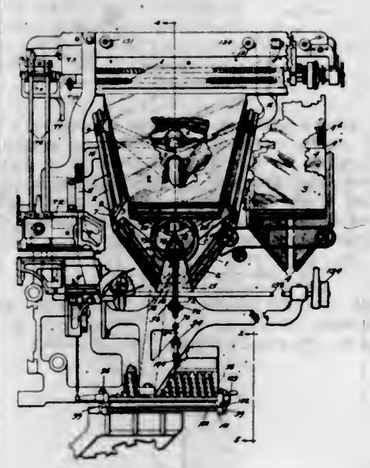
1,679,316. TESTING EQUIPMENT FOR AUTOMATIC TELEPHONE SYSTEMS. FRED T. MADSEN, Forest Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Oct. 15, 1924, Serial No. 743,660. Renewed May 28, 1927. 21 Claims. (Cl. 179—175.)

4. In a telephone exchange, a plurality of digit translating devices common to and controlled by a plurality of trunk circuits containing relays, a test mechanism, means for connecting said test mechanism to said translating



device in lieu of said trunk circuits, and means in said test mechanism for then controlling said translating device.

1,679,317. TYPOGRAPHICAL MACHINE. GEORGE E. MARLATT, Pasadena, Calif. Filed Mar. 24, 1922. Serial No. 546,383. 72 Claims. (Cl. 199—16.)



1. In a typographical machine, matrix magazines arranged in superposed groups about a common center, means for rotating the several groups about their center in order to render a selected group operative; a magazine-entrance channel-group movable to register with a selected magazine of a selected group, an assembler-entrance channel-group movable to register with a selected magazine of a selected group; means for moving said magazine-entrance channel-group and said assembler-entrance channel-group in unison for joint registry with a selected magazine; a vertical magazine mounted independently of said rotatable groups of magazines, means for further moving said assembler-entrance channel-group to register with said vertical magazines; escapements associated with each of said magazines, a group of key-controlled reeds for actuating said escapements, means for raising and lowering said group of reeds longitudinally to and from operative relation with the escapements of a selected magazine, other means for moving said group of reeds laterally to and from operative relation with the escapements of a selected magazine, and means for causing said lateral movement of the reeds to occur in unison with the movement of said assembler-entrance channel-group to and from registration with a selected magazine.

1,679,318. TYPOGRAPHICAL ASSEMBLING AND DISTRIBUTING MACHINE. GEORGE E. MARLATT, Pasadena, Calif. Filed Oct. 5, 1926. Serial No. 139,721. 23 Claims. (Cl. 199—20.)



1. In a typographical machine, in combination with a magazine having a series of channels in each of which matrices bearing a like character are stored in column arrangement for successive and intermittent release therefrom, and matrices therein having a short lug at their forward end and a relatively longer following lug on the same edge therewith, a perforation through the floor of each of said channels in which the short lug of each forward matrix in a column lodges and thus hinders the escape of said matrices from their channel, and means for releasing said matrices one at a time from lodgement in said perforation, said means acting from beneath and through said perforation to lift said matrix out of said perforation.

1,679,319. SHEET PILING. HORACE M. MARSHALL, Vicksburg, Miss. Filed Dec. 11, 1923. Serial No. 680,056. 4 Claims. (Cl. 61—58.)

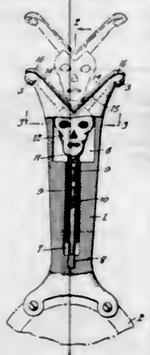


1. A wooden sheet piling comprising a plurality of sections, each section being built up wholly by flat boards and wooden pieces L-shaped in cross-section, each of said pieces consisting only of a web and a flange arranged at right angles and integrally united, the length of the flange of each piece being substantially equal to the thickness of said flat boards and to the thickness of the web, said elements being assembled and secured together with a flat board interposed between two reversely arranged opposed L-shaped pieces, the edges of said board being spaced from the flanges of said L-shaped pieces a distance equal to the thickness of said flanges, whereby each section is provided at its edges with a tongue and groove, the grooves and tongues of adjacent sections being constructed to interlock.

1,679,320. SPEED-WARNING DEVICE. JESSE MATTHEWS, Absecon, N. J. Filed June 25, 1927. Serial No. 201,407. 5 Claims. (Cl. 116—116.)

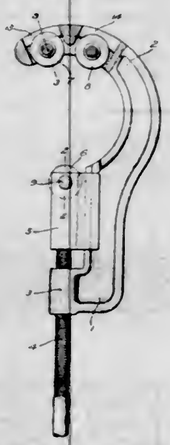
5. A device of the character described, including a post having a longitudinal bore, a pin fixed in said bore, rollers carried by said pin and projecting from the surface of the pin, a vertically movable member having a tubular lower end receiving the pin and engaged by the rollers, a figure constituting a part of the vertically mov-

able member and normally enclosed in the post, wings on the upper end of the vertically movable member above the post adapted to be engaged by the wind to cause the



member to elevate and expose the figure, and spring fingers on the lower end of the movable member limiting the downward and upward movements of said member.

1,679,321. PIPE CUTTER. RICHARD FREDRICK MCKAY, Brooklyn, N. Y. Filed Mar. 7, 1927. Serial No. 173,525. 1 Claim. (Cl. 81—192.)



A pipe cutter, comprising a body formed at its outer end with a pair of notches merging into slots and with a hollow internally threaded projection at its inner end, a slide mounted on said body adjacent said inner end, a handle having a threaded section extending through said threaded projection and positioned to adjust said slide, said slide having a notch merging into a slot, a cutter formed with a hub and blade positioned so that said hub will be in the notch in said slide while the blade will extend through the slot in the slide, a journal pin carried by said slide for rotatably supporting said cutter, a pair of cutters for the outer end of said body, said cutters being formed with hubs positioned in the respective notches in said outer end and with blades extending into the slots in said outer end, a journal pin for each of said last mentioned cutters carried by said outer end for rotatably supporting said last mentioned cutters, said last mentioned cutters being substantially in line with the cutter carried by said slide, the structure carrying the respective slots presenting walls frictionally engaging the sides of the respective blades for holding the blades in their correct operative positions.

1,679,322. SYNTHETIC RESIN AND METHOD OF MAKING SAME. JAMES MCINTOSH, Norristown, Pa., assignor to Diamond State Fibre Company, Elsmere, Del., a Corporation of Delaware. Filed Apr. 4, 1922. Serial No. 549,522. 14 Claims. (Cl. 260—2.)

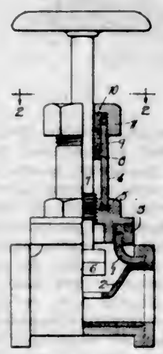
1. The process of forming a potentially reactive resin which comprises causing a phenolic body and an essential oil having an aldehyde base to react to form a fusible, soluble non-crystalline condensation product capable of transformation into a hard, infusible product upon further heating.

1,679,323. WINDOW-CLEANING APPARATUS. CLARENCE E. MORTLOCK, Wilmington, Del. Filed Mar. 30, 1927. Serial No. 179,618. 4 Claims. (Cl. 15—29.)



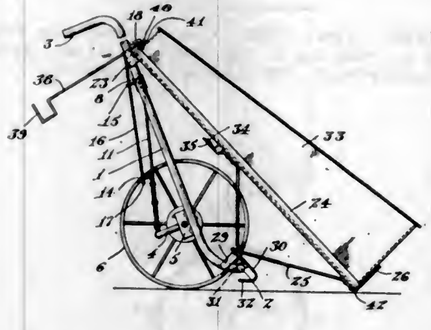
1. A window cleaning apparatus comprising a closed tank to contain cleansing fluid, means for supplying air under pressure to said tank, a brush, a fluid-actuated motor connected with said air supplying means for operating said brush, and a nozzle adjacent said brush and connected with said tank for directing a stream of cleansing fluid at the free end of said brush.

1,679,324. VALVE BONNET AND THE LIKE. THOMAS E. MURRAY, Brooklyn, N. Y. Filed July 19, 1924. Serial No. 726,903. 4 Claims. (Cl. 251—49.)



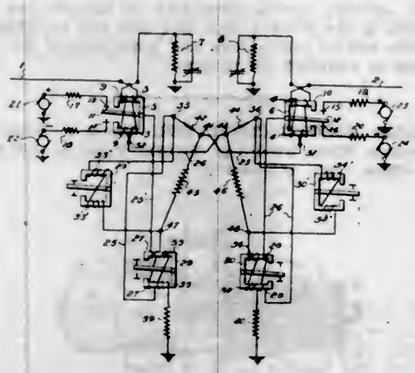
4. A valve bonnet having a tubular body, a base and an internal shoulder for holding the packing for the valve stem, the body being a separate piece from the base and shoulder and being welded to these parts.

1,679,325. CONVERTIBLE HAND TRUCK AND VEHICLE. NATHANIEL S. BLACK, Newtonville, Mass., assignor to The Casey Foster Co., Boston, Mass., a Corporation of Massachusetts. Filed May 26, 1927. Serial No. 194,472. 7 Claims. (Cl. 280—53.)



1. A device of the kind described, comprising a U-frame having its upper ends formed as handles, an axle, wheels on said axle, a frame detachably secured to said U-shaped frame at a plurality of points, said wheels and one end of said frame forming supports for the device.

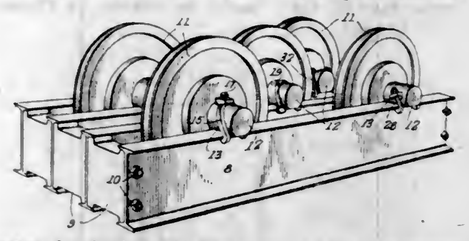
1,679,326. POTENTIAL-INDICATING SYSTEM. HERBERT W. DRAKE, East Orange, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Nov. 20, 1924. Serial No. 751,178. 7 Claims. (Cl. 178—69.)



1. A transmission system, comprising, a main line, a source of electrical energy adapted to be connected thereto, an indicating instrument electrically remote from and responsive to potential variations of said source, and compensating means for said instrument to compensate for the effect of disturbing potential variations other than the potential variations of said source, comprising a differential winding for said instrument connected in the main line.

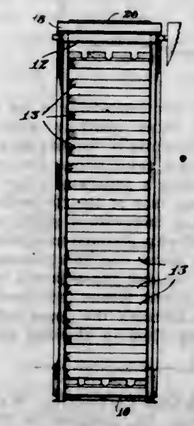
1,679,327. CROWN BLOCK. WILLIAM S. EVANS, Palisades Park, N. J., assignor to Lucey Manufacturing Corporation of Tennessee, Chattanooga, Tenn., a Corporation of Tennessee. Filed Aug. 11, 1927. Serial No. 212,213. 2 Claims. (Cl. 308—59.)

1. In a crown block, the combination of spaced parallel frame beams, a supporting shaft resting on said beams, a sheave rotatably mounted on said shaft, oppositely inclined yokes engaged over opposite end portions of said shaft, hooks on the ends of said yokes engaged beneath the outer flanges of the supporting beams and screw



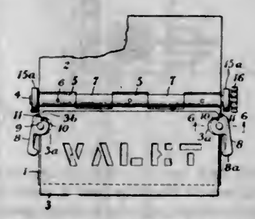
means for forcing said hooks into holding engagement with the flanges and the yoke structures gripped about the shaft.

1,679,328. CONTAINER. CLAUD E. FULLER, New York, N. Y., assignor to New York Brick Handling Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 19, 1927. Serial No. 227,233. 4 Claims. (Cl. 34—26.)



1. An improved container for open top dryers comprising a rectangular open framework, a plurality of ledges fomed thereon for acting as supports for a plurality of groups of superimposed pallets, and means forming part of the container for making a gas tight joint between the container and an open top dryer.

1,679,329. BLADE HOLDER. HENRY J. GAISMAN, New York, N. Y., assignor to Autostrop Patents Corporation, Dover, Del., a Corporation of Delaware. Original application filed June 24, 1924, Serial No. 721,972. Divided and this application filed Dec. 17, 1926. Serial No. 155,400. 1 Claim. (Cl. 30—12.)



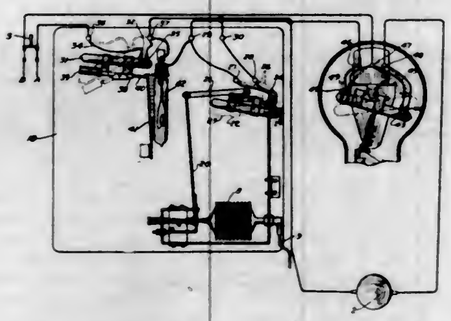
A safety razor including two shafts geared together, and two blade-holding plates mounted on one of said shafts, one of said plates being rotatable with respect to said shaft.

1,679,330. BOOT-TREE OR LAST. CARL SODERLUND, Belmont, Mass., assignor to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed Feb. 17, 1927. Serial No. 168,980. 5 Claims. (Cl. 18—46.)



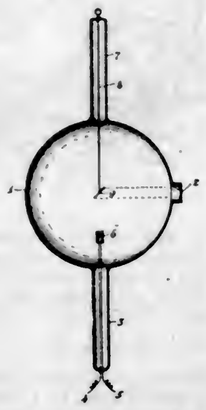
1 A boot tree or last comprising a leg section and a toe section having faces abutting along intersecting planes which are substantially lengthwise and transverse to the body of the last respectively, the lengthwise face of the leg section having a guideway, a bar secured at its ends to the lengthwise face of the toe section and spaced therefrom and forming therewith a guide, said guide projecting into said guideway, a transverse pin carried by the leg section near its lower end and passing through the space between said bar and the adjacent face of the toe section, and spring detent means interposed between the leg and toe sections adjacent the upper end of the latter for releasably holding them in abutting relation.

1,679,331. OIL-BURNER CONTROL. WALTER W. WILLIAMS, Bloomington, Ill., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill., a Corporation of Illinois. Filed Mar. 11, 1925. Serial No. 14,621. 6 Claims. (Cl. 158—28.)



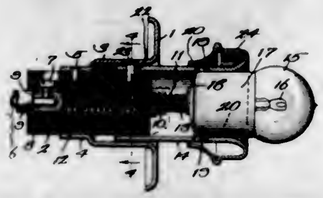
1. In a liquid fuel burner construction having an electrical operating means therefor and a room thermostat in circuit therewith controlling the normal operation thereof, in combination with a safety device in said circuit requiring a manual setting to close the circuit, means actuated by the passage of the current therethrough to hold the set position, and additional means in circuit with said holding means and operating circuit, independent of the thermostat, controlled by the heat generated by the burner flame and adapted to break said circuit upon failure of said flame, said thermostat having means operable upon breaking the operating circuit to simultaneously close the circuit through the safety device, and holding means.

1,679,332. X-RAY TUBE. GUSTAV BUCKY, New York, N. Y. Filed May 7, 1924, Serial No. 711,561, and in Germany May 8, 1923. 2 Claims. (Cl. 250—35.)



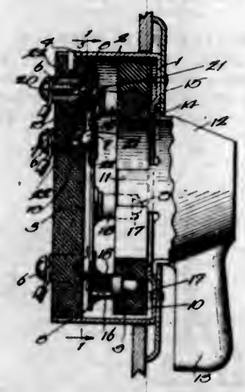
1. An X-ray tube of the heated cathode type for emitting X-rays of adjustable penetration, and having an X-ray emitting portion constituted of material non-absorptive of the softer X-rays, said tube also including a cathode and an anti-cathode and being adapted for operation at sustained low tensions.

1,679,333. CIRCUIT CONNECTER. HARRY A. DOUGLAS, Bronson, Mich. Filed Sept. 5, 1922. Serial No. 586,269. 1 Claim. (Cl. 173—349.)



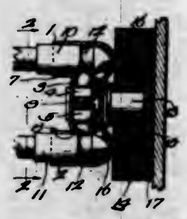
A circuit connecter comprising a mounting member provided with a tubular portion, a plug having a portion thereof fitted within the tubular portion in snug engagement therewith throughout its circumferential extent whereby it is held rigidly by said mounting member against tilting movement with respect thereto, means holding said plug against longitudinal movement with respect to said mounting member, a portion of said plug extending outwardly of the tubular portion of said mounting member, a rotatable and longitudinally movable sleeve engaged over the outwardly extending portion of said plug, a pin fixed with respect to said plug and mounting member passing through a diagonal slot in said sleeve whereby rotation of said sleeve results in its longitudinal movement with respect to said plug, and a contact carried by said plug for cooperation with a circuit continuing member mounted in the sleeve.

1,679,334. ELECTRIC SWITCH. HARRY A. DOUGLAS, Bronson, Mich. Filed Jan. 27, 1926. Serial No. 84,098. 1 Claim. (Cl. 200—166.)



In an electric switch, the combination with a contact carrier; of a contact upon said carrier; a second contact carrier; a contact upon the second carrier, the two carriers being relatively movable to bring the contacts into and out of contacting alignment, one of said contacts having a recess in its contacting face and the other contact having a ball projecting therefrom and rotatable upon the carrier for the first contact, said ball being receivable within said recess, the contact having the ball also having another portion engageable with the other contact and holding the ball out of engagement with said other contact when the contacts are in engagement.

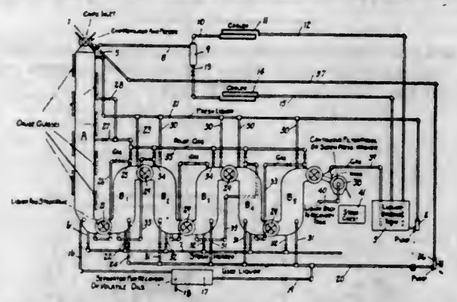
1,679,335. CIRCUIT CONTINUING DEVICE. HARRY A. DOUGLAS, Bronson, Mich. Filed Nov. 17, 1927. Serial No. 233,876. 8 Claims. (Cl. 173—328.)



1. In a circuit continuing device, the combination with a spring barrel having openings through its ends; of plunger contacts projecting through said openings; spring means within said spring barrel for pressing said plunger contacts outwardly to yieldingly maintain them in place; and a basket receiving said spring barrel and contacts lengthwise thereof and having an ear formation that laps and holds the barrel in place the ends of the basket being formed with plug receiving sockets that are angular to said spring barrel and into whose interiors the outer ends of the plunger contacts respectively adjacent thereto extend to be engageable by plugs inserted within said sockets.

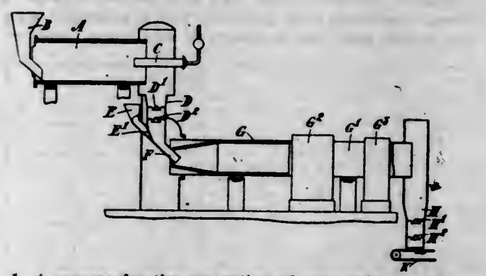
1,679,336. METHOD AND APPARATUS FOR CONTINUOUS COOKING OF FIBROUS MATERIAL. THOMAS L. DUNBAR, Watertown, N. Y., assignor, by mesne assignments, to Chemipulp Process, Inc., Watertown, N. Y., a Corporation of New York. Filed Oct. 25, 1926. Serial No. 143,993. 24 Claims. (Cl. 92—7.)

1. A method for the continuous cooking of fibrous material, consisting in feeding the material through a series of cooking chambers arranged end to end, cooking the material in each of said chambers by means of a heated chemical cooking liquor, subjecting the material in the first chamber of the series to hydrostatic pressure, and



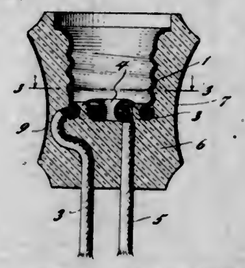
subjecting the material in succeeding chambers of the series to a higher temperature and super-atmospheric pressure.

1,679,337. HEAT TREATMENT AND CONCENTRATION OF COPPER ORES. JOHN COLLETT MOULDEN and BRUCE TAPLIN, London, England, assignors to Metals Production Company of North America Incorporated, New York, N. Y., a Corporation. Filed Sept. 14, 1925, Serial No. 56,228, and in Great Britain Oct. 29, 1924. 21 Claims. (Cl. 75—62.)



1. A process for the separation of copper from gangue in ores and like materials of the kind defined characterised by heating the ore in admixture with solid carbonaceous matter and in the presence of a haloid at a temperature lower than the melting point of copper and yet adequate to produce a reaction so that the copper is caused to come out of the ore particles which originally contained it and is found outside them in the metallic condition amongst the charge.

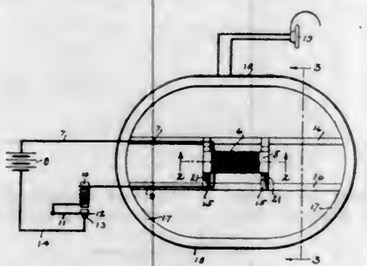
1,679,338. LAMP SOCKET. HARRY ROTHENBERG, West Norwood, N. J., and OTTO C. BRITSCH, Woodhaven, N. Y., assignors to Henry Hyman, Brooklyn, N. Y. Filed Apr. 23, 1926. Serial No. 104,029. 1 Claim. (Cl. 173—358.)



A lamp socket, consisting of a sheet metal socket member screw-threaded to receive a lamp base and having an end turned over around a conductor, a center con-

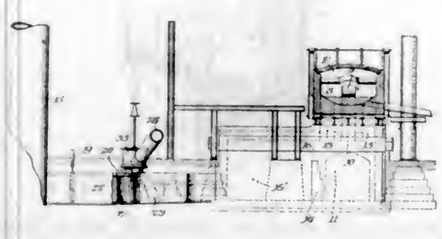
tact in the form of an eyelet folded around a conductor, said socket and eyelet being held in position by insulating compound molded in place around the same.

1,679,339. HIDDEN-METAL DETECTOR. SHIAL HERE, Crawfordsville, Ind. Filed Feb. 4, 1924. Serial No. 690,360. 4 Claims. (Cl. 175—182.)



1. In a metal detector, the combination with a source of electric current, an automatic vibrating contact breaker, and a telephone receiver, of a pole-piece, a primary winding on said pole-piece in electrical circuit with said source of electric current and said contact breaker, a frame supporting said pole-piece, and a secondary winding wound about the periphery of said frame, said secondary winding being at right angles to and being at a substantial distance from said primary winding and being in electrical circuit with said telephone receiver.

1,679,340. METALLURGICAL FURNACE. FRANK B. MCKUNE, Hamilton, Ontario, Canada, assignor, by mesne assignments, to Open Hearth Combustion Company, Chicago, Ill., a Corporation of Delaware. Filed May 5, 1922. Serial No. 558,756. 7 Claims. (Cl. 263—15.)



1. In combination with a reversible metallurgical furnace, air entrance passages, movable means whereby the entrance area for incoming air to the furnace chamber may be restricted, and fans for supplying forced air to said passages.

July 3, 1928

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Acme Company. (See Marsh, Halbert G.)
Adams Bros. Mfg. Co. Inc., Pittsburgh, Pa. Gas heaters and parts thereof. 243,959; July 3; Serial No 251,470; published Apr. 24, 1928. Class 34.
Adams-White Brush Company Boston, Mass. Cylindrical and flat industrial brushes and machine-operated brushes. 243,923; July 3; Serial No. 257,846; published Apr. 24, 1928. Class 29.
Air-Chrome Studios, Inc., The, Irvington, N. J. Radio loud speakers. 243,983; July 3; Serial No. 261,855; published Apr. 24, 1928. Class 21.
Allen Belting Company, Clifton Heights, Pa. Round leather belting. 243,900; July 3; Serial No. 263,062; published Apr. 24, 1928. Class 35.
Alligator Company, The, St. Louis, Mo. Hospital sheeting of waterproof fabric. 243,814; July 3; Serial No. 244,485; published Apr. 10, 1928. Class 44.
Alpha Delta Pi, Ames, Iowa. Fraternity badges, lapel buttons, pins, cuff links, clasps, etc. 243,817; July 3; Serial No. 244,341; published Apr. 17, 1928. Class 28.
Alpha Portland Cement Company, to Alpha Portland Cement Company, Easton, Pa., successor. Portland cement. 70,500; renewed Sept. 8, 1928.
Ament, Lucy C., New York, N. Y. Dolls. 243,848; July 3; Serial No. 261,473; published Apr. 17, 1928. Class 22.
American Chain Company, Inc., New York, N. Y., and Bridgeport, Conn. Telltale devices. 243,972; July 3; Serial No. 231,468; published Apr. 24, 1928. Class 19.
American Crayon Company, The, Sandusky, Ohio. Emulsion for wall covering. 243,833; July 3; Serial No. 260,482; published Apr. 17, 1928. Class 16.
American Pastry Products Corporation. (See Denaro, James, assignor.)
American Signs Corporation, Kalamazoo, Mich. Luminous electric signs. 243,845; July 3; Serial No. 261,601; published Apr. 17, 1928. Class 21.
American Solvents & Chemical Corporation, New York, N. Y. Alcoholic liquors. 243,815; July 3; Serial No. 244,383; published Apr. 24, 1928. Class 49.
American Stores Company, Philadelphia, Pa. Gelatine dessert. 243,886; July 3; Serial No. 262,012; published Apr. 17, 1928. Class 46.
American Woolen Company, Boston, Mass. Woolen piece goods. 243,907; July 3; Serial No. 263,063; published Apr. 24, 1928. Class 42.
Anderson & Kroener, New York, N. Y. Platinum bracelets. 243,999; July 3; Serial No. 262,438; published Apr. 24, 1928. Class 28.
Ansonia Clock Company The, Brooklyn, N. Y. Clocks. 244,058; July 3. Class 27.
Automatic Cone Company. (See Denaro, James.)
Axel Bros., New York, N. Y. Jewelry. 243,942; July 3; Serial No. 260,931; published Apr. 24, 1928. Class 28.
Barber Asphalt Company, The, Philadelphia, Pa. Asphalt shingles. 244,047; July 3. Class 12.
Bartles-Maguire Oil Company, The, Milwaukee, Wis. Gasoline, motor oil, and other lubricating oils and greases. 243,890; July 3; Serial No. 262,198; published Apr. 17, 1928. Class 15.
Baum Bros. & Mayer Neckwear Co., St. Louis, Mo. Men's and boys' neckties and cravats. 244,051; July 3. Class 39.
Beck Products Co., Spokane, Wash. Expander steel for piston rings. 244,055; July 3. Class 14.
Berger, Sigmund, New York, N. Y. Jewelry. 243,943; July 3; Serial No. 260,932; published Apr. 24, 1928. Class 28.
Berry, Dodge Company, Boston, Mass. Tea. 243,961; July 3; Serial No. 245,827; published Mar. 13, 1928. Class 46.
Bloom Manufacturing Company, Inc., The, Nashua, Iowa. Toy and souvenir banks. 243,843; July 3; Serial No. 261,734; published Apr. 10, 1928. Class 22.
Blue Ribbon Oil Company, Chicago, Ill. Oils and greases, kerosene, and gasoline. 243,869; July 3; Serial No. 246,883; published Aug. 2, 1927. Class 15.
Borden Company, The. (See Union Condensed Milk Company, assignor.)
Bowser, S. F., & Company, Inc., Fort Wayne, Ind. Pumps. 243,899; July 3; Serial No. 262,793; published Apr. 24, 1928. Class 23.
Bramhall Food Products Corporation, Washington, D. C. Mayonnaise, Thousand Island dressing, and relish. 243,965; July 3; Serial No. 248,670; published Nov. 29, 1927. Class 46.
Bright Star Battery Co., Hoboken, N. J., doing business as Unedilt Battery Co., New York, N. Y. Electric batteries. 243,937; July 3; Serial No. 260,552; published Apr. 24, 1928. Class 21.
Browning-Drake Corporation, Cambridge, Mass. Radio receiving sets and radio receiver construction kits and parts thereof. 243,872; July 3; Serial No. 254,790; published Apr. 17, 1928. Class 21.
Buescher Manufacturing Co., The, assignor, by mesne assignments, to Buescher Band Instrument Co., Elkhart Ind. Band instruments. 31,953; renewed Sept. 6, 1928.
Buford, Henry C., Sacramento, Calif. Fresh deciduous fruits and fresh grapes. 244,057; July 3.
Bull Dog Floor Clip Company. (See Krabiel, William C.)
Burnett, L. H., doing business as Burnett Bros., San Francisco, Calif. Watches. 243,974; July 3; Serial No. 228,224; published Apr. 24, 1928. Class 27.
Burton & Davis Co., New York, N. Y. Canned fruits and vegetables. 70,723; renewed Sept. 29, 1928.
California Petroleum Corporation, Los Angeles, Calif. Gasoline. 243,823; July 3; Serial No. 241,392; published Apr. 17, 1928. Class 15.
Cartier. (See Crane, Clarence A.)
Chemische Fabrik von Heyden Aktien-Gesellschaft, Radebeul, near Dresden, Germany, assignor, by mesne assignments to Heyden Chemical Corporation, Inc., New York, N. Y. Antiseptic silver salts. 66,947; renewed Jan. 7, 1928.
Chicago White Lead & Oil Co., Chicago, Ill. Paint enamel. 243,825; July 3; Serial No. 217,998; published Oct. 12, 1926. Class 16.
Clifton Manufacturing Company, Jamaica Plain, Boston, Mass. Rubberized textile fabrics. 244,039; July 3. Class 50.
Clusor, Incorporated, New York, N. Y. Binding machines. 243,863; July 3; Serial No. 258,621; published Apr. 24, 1928. Class 23.
Cohn, Leo R., doing business as Estes Hosiery Company, Denver, Colo. Hosiery. 244,061; July 3. Class 39.
Combined Buyers Limited, Wellington, New Zealand. Lubricating oils, greases, petrol, and kerosene. 243,920; July 3; Serial No. 256,335; published Apr. 24, 1928. Class 15.
Compagnie du Vin St. Raphael (Societe Anonyme), Valence, Drome, France. Still wine. 243,812; July 3; Serial No. 244,744; published July 12, 1927. Class 47.
Compagnie Métallurgique de la Campine Soc. An., Antwerp, Belgium. Antimony oxide. 243,906; July 3; Serial No. 262,954; published Apr. 24, 1928. Class 6.
Compania Frutera Transcontinental S. A., Mexico City, Mexico, and El Paso, Tex. Bananas. 243,901; July 3; Serial No. 262,649; published Apr. 24, 1928. Class 46.
Compania Frutera Transcontinental S. A., Mexico City, Mexico, and El Paso, Tex. Bananas. 243,950; July 3. Serial No. 262,648; published Apr. 24, 1928. Class 46.
Corinthian Pharmacy. (See Silberman, Joseph.)
Crane, Clarence A., doing business as Cartier, Cleveland, Ohio. Candy. 244,008; July 3; Serial No. 262,209; published Apr. 24, 1928. Class 46.
Creofloat Manufacturing Co., Inc., Seattle, Wash. Moth repellant. 243,991; July 3; Serial No. 261,306; published Apr. 24, 1928. Class 6.
Cron & Dehn, Inc., Seattle, Wash. Fresh fruit, canned fish, etc. 244,065; July 3; Serial No. 262,293; published Apr. 24, 1928. Class 46.
Crown Oil & Wax Co., Baltimore, Md. Lubricating oils and greases. 243,875; July 3; Serial No. 253,312; published Apr. 3, 1928. Class 15.
Crump, Edward B., Louisville, Ky. Hair restorer. 244,014; July 3; Serial No. 262,064; published Apr. 24, 1928. Class 6.
Davies, J. P., Company, The, to The Davies-Young Soap Company, Dayton, Ohio, successor. Soap. 70,548; renewed Sept. 15, 1928.
Davis & Lowe Company, Newark, N. J. Cuff buttons, belt buckles, hatpins, etc. 243,952; July 3; Serial No. 260,104; published Apr. 24, 1928. Class 28.
De Bar, Harold L., Los Angeles, Calif. Vaginal syringes and ointment applicators. 243,891; July 3; Serial No. 262,295; published Apr. 17, 1928. Class 44.
Denaro, James, doing business as Automatic Cone Company, assignor to American Pastry Products Corporation, Cambridge, Mass. Ice-cream molding and dispensing device. 243,842; July 3; Serial No. 261,739; published Apr. 24, 1928. Class 23.
Duncan Oil Company, The, Youngstown, Ohio. Storage batteries. 243,849; July 3; Serial No. 261,426; published Apr. 10, 1928. Class 21.
Eastern Lacquer Company, Lynn and Wakefield, Mass. Lacquer, lacquer enamels, stains, etc. 243,865; July 3; Serial No. 257,973; published Apr. 17, 1928. Class 16.
Egal Metal Products Company, The, Baltimore, Md. Aluminum alloys. 244,002; July 3; Serial No. 262,352; published Apr. 17, 1928. Class 14.
England, Klein & Levy, Incorporated, New York, N. Y. Finger rings and mountings, scarfpins, brooches, bar pins, pendants, and clasps. 243,840; July 3; Serial No. 260,006; published Apr. 17, 1928. Class 28.
Englund, August O., West Chester, Pa. Candies, fancy cakes, ice cream, etc. 243,818; July 3; Serial No. 244,006; published Apr. 17, 1928. Class 46.
Estes Hosiery Company. (See Cohn, Leo R.)
Excellent Mfg. Co. (See Nowak, Walter.)
Faber, Eberhard, New York, N. Y., assignor to Eberhard Faber Pencil Company, Brooklyn, N. Y. Lead and colored pencils. 71,436; renewed Nov. 24, 1928.
Fairmont Railway Motors, Inc., Fairmont, Minn. Roller bearings. 244,052-3; July 3. Class 23.

Finn, John, San Francisco, Calif. Movable automobile arm rests. 244,054; July 3. Class 19.
Fischer, Carl, Inc., New York, N. Y. Violins, violas, cellos, and bass viols. 244,037; July 3. Class 36.
Fischer, Philip. (See Mason, Jas. S., Co.)
Flemington Milling Co., Flemington, N. J. Graham and wheat flour. 244,049; July 3. Class 46.
Flickinger, J. H., Company, The, San Jose, Calif. Canned fruits. 71,302; renewed Nov. 17, 1928.
Fargo, Stephen, Cleveland, Ohio. Preparation. 243,924; July 3; Serial No. 258,806; published Apr. 24, 1928. Class 6.
Fastidious Company, The, San Francisco, Calif. Bidets. 243,874; July 3; Serial No. 253,322; published Apr. 17, 1928. Class 44.
Finnell System, Inc., Elkhart, Ind. Floor-treating machines, scrubbing machines, mop trucks, etc. 243,873; July 3; Serial No. 254,275; published Apr. 24, 1928. Class 23.
Frank, Edgar K., & Co., New York, N. Y. Linings in the piece. 243,933; July 3; Serial No. 260,172; published Apr. 3, 1928. Class 42.
Gabriel & Jos. Sedlmayr, Spaten-Franziskaner-Leistbräu A.-G., München, Munich, Germany. Malt syrups and malt extracts. 243,804; July 3; Serial No. 258,502; published Apr. 17, 1928. Class 46.
Gamewell Company, The, Newton Upper Falls, Mass. Electrical fire-alarm systems and parts thereof. 243,861; July 3; Serial No. 258,867; published Apr. 17, 1928. Class 21.
Gardner & Yates, Bellefonte, Pa. Aluminum solder. 243,922; July 3; Serial No. 257,540; published Apr. 24, 1928. Class 14.
Garfinkel, B. J., doing business as Good-Will Malt and Hops Supply Company, Harrisburg, Pa. Malt syrup. 243,895; July 3; Serial No. 262,398; published Apr. 17, 1928. Class 46.
Garson, Isaac, New York, N. Y. Finger rings, bar pins, scarfpins, and bracelets. 243,947; July 3; Serial No. 260,996; published Apr. 24, 1928. Class 28.
General Appliance Corporation, San Francisco, Calif. Electric-circuit interrupters or flashers. 243,819; July 3; Serial No. 243,852; published Apr. 17, 1928. Class 21.
General Phonograph Corporation, New York, N. Y. Talking-machine and phonograph records. 243,826; July 3; Serial No. 157,268; published Apr. 17, 1928. Class 36.
Gilbert, William L., Clock Company, Winsted, Conn. Clocks. 243,854; July 3; Serial No. 261,187; published Apr. 10, 1928. Class 27.
Glascote Company, The, Euclid, Ohio. Enameled tanks. 243,975; July 3; Serial No. 226,352; published Apr. 24, 1928. Class 2.
Glassman, Maurice H., Boston, Mass. Rotary dry-cleaning machines. 243,936; July 3; Serial No. 260,441; published Apr. 24, 1928. Class 24.
Goffin, S. S., Jacksonville, Fla. Canned oysters and canned fruit. 243,984; July 3; Serial No. 261,808; published Apr. 24, 1928. Class 46.
Good-Will Malt and Hops Supply Company. (See Garfinkel, B. J.)
Gould Storage Battery Co., Inc., Depew, N. Y. Storage batteries and parts thereof. 243,883; July 3; Serial No. 261,876; published Apr. 17, 1928. Class 21.
Great Atlantic & Pacific Tea Co., The, New York, N. Y. Canned peas. 244,042; July 3. Class 46.
Grinnell Company, Inc., Providence, R. I. Pipe fittings, valves, and cocks. 243,955; July 3; Serial No. 249,898; published Apr. 24, 1928. Class 13.
Gruber's, Charles J., Sons, Philadelphia, Pa. Maltless beverage. 243,898; July 3; Serial No. 262,656; published Apr. 24, 1928. Class 45.
Grunbacher, M., New York, N. Y. Artists' paints. 243,871; July 3; Serial No. 254,911; published Apr. 10, 1928. Class 16.
Guaranteed Parts Co., Inc., New York, N. Y. Replacement parts for ignition systems. 243,882; July 3; Serial No. 261,809; published Apr. 17, 1928. Class 21.
Haas, Baruch & Company, Los Angeles, Calif. Canned fish, fruits, vegetables, etc. 243,930; July 3; Serial No. 259,112; published Apr. 24, 1928. Class 46.
Haaxma, George G., doing business as M. Haaxma & Sons, Winthrop, Mass. Cigars. 243,878; July 3; Serial No. 261,113; published Apr. 24, 1928. Class 17.
Haines & Klein, Inc., New York, N. Y. Finger-ring mountings and settings, brooch mountings and settings, bracelets. 243,934; July 3; Serial No. 260,330; published Apr. 24, 1928. Class 28.
Hamilburg-Shaw Corporation, New York, N. Y. White-gold and platinum finger rings, bar pins, and bracelets. 243,838; July 3; Serial No. 260,121; published Apr. 17, 1928. Class 28.
Harber, W. J., Co., Inc., New York, N. Y. Finger rings, bar pins, brooches, pendants, etc. 244,016; July 3; Serial No. 262,030; published Apr. 24, 1928. Class 28.
Hart Silk Company, San Francisco, Calif. Silk, etc., piece goods. 243,908; July 3; Serial No. 263,212; published Apr. 24, 1928. Class 42.
Have A Heart Candy Co. (See Rose, William D.)
Heide, Henry, Incorporated, New York, N. Y. Candies and nuts of all kinds. 243,976; July 3; Serial No. 225,186; published Mar. 13, 1928. Class 46.
Heller, B., & Company, Chicago, Ill. Dessert powders, cocoa, spices, seasonings, etc. 243,969; July 3; Serial No. 243,490; published Apr. 24, 1928. Class 46.
Heller & Perrin, Pittsburgh, Pa. Evaporated milk. 243,948; July 3; Serial No. 262,564; published Apr. 24, 1928. Class 46.
Hemco Electric Manufacturing Company, Inc., Bridgeport, Conn. Wall plates for switch boxes. 243,964; July 3; Serial No. 249,225; published Apr. 24, 1928. Class 21.
Heyden Chemical Corporation, Inc. (See Chemische Fabrik von Heyden Aktien-Gesellschaft, assignor.)
Hipp, Didisheim Co., Inc., New York, N. Y. Watches, watchcases, watch movements, and parts thereof. 243,831; July 3; Serial No. 260,683; published Apr. 17, 1928. Class 27.
Hollywood Laboratory, The. (See Paul, Samuel.)
Hoof, John C., & Company, Chicago, Ill. Piston rings. 243,866; July 3; Serial No. 257,159; published Apr. 24, 1928. Class 35.
Horner, Peggy, Inc., Brooklyn, N. Y. Marmalade, relishes, jellies, etc. 244,059; July 3. Class 46.
Howey, W. J., Co., Howey-in-the-Hills, Fla. Fresh citrus fruits. 243,988; July 3; Serial No. 261,675; published Apr. 24, 1928. Class 46.
Illinois Glass Company, Alton, Ill. Glass jars and glasses. 243,989; July 3; Serial No. 261,632; published Apr. 24, 1928. Class 33.
Inland Manufacturing Company, Dayton, Ohio. Steering wheels. 243,941; July 3; Serial No. 260,890; published Apr. 24, 1928. Class 19.
International Resistance Company, Philadelphia, Pa. Electrical resistance devices. 243,807; July 3; Serial No. 253,150; published Apr. 17, 1928. Class 21.
Interstate Smelting & Refining Co., Inc., Newark, N. J. Finger rings. 243,986; July 3; Serial No. 261,755; published Apr. 24, 1928. Class 28.
Isaacson, John, Seattle, Wash. Stanchions, davits, stern frames, etc. 243,918; July 3; Serial No. 255,714; published Apr. 24, 1928. Class 19.
Italian Vineyard Co., Guasti and Los Angeles, Calif. Cooking sherry compounded with salt, wine, jelly, etc. 243,869; July 3; Serial No. 255,180; published Apr. 17, 1928. Class 46.
Jacobs, Louis N., New York, N. Y. Wedding rings. 243,847; July 3; Serial No. 261,513; published Apr. 10, 1928. Class 28.
Jobbers Service Incorporated, Coldwater, Mich. Coffee. 243,949; July 3; Serial No. 262,609; published Apr. 24, 1928. Class 46.
Johnson, Max, doing business as Johnson Bros., New York, N. Y. Finger rings. 243,996; July 3; Serial No. 261,009; published Apr. 24, 1928. Class 28.
Kaisafanas Coffee Company, Pittsburgh, Pa. Coffee. 243,998; July 3; Serial No. 262,463; published Apr. 24, 1928. Class 46.
Kedzie, Adam S., doing business as Polar Malt Company, Los Angeles, Calif. Frozen concentrate for making malted milk. 243,915; July 3; Serial No. 253,242; published Apr. 24, 1928. Class 46.
Klotter & Norton Co., Chicago, Ill. Canned sauerkraut, peas, etc. 244,013; July 3; Serial No. 262,090; published Apr. 24, 1928. Class 46.
Knobby Krafters, The. (See Nerney, Lester W.)
Kosbers, Samuel, New York, N. Y. Jewelry. 243,944; July 3; Serial No. 260,945; published Apr. 24, 1928. Class 28.
Krabiel, William C., doing business as Bull Dog Floor Clip Company, Winterset, Iowa. Metal clips. 243,979; July 3; Serial No. 261,962; published Apr. 24, 1928. Class 13.
Kroneberger, C. H., and Company, Baltimore, Md. Steel-cut and pulverized coffees. 243,927-8; July 3; Serial Nos. 258,949-50; published Apr. 24, 1928. Class 46.
Kruger & Gottlieb, New York, N. Y. Jewelry. 243,994; July 3; Serial No. 261,265; published Apr. 24, 1928. Class 28.
Lange, William L., New York, N. Y. Banjos, banjo ukuleles, guitars, etc. 243,852; July 3; Serial No. 261,367; published Apr. 17, 1928. Class 36.
Lazear, George A., Irvington, N. J. Penetrating graphite oil. 243,808; July 3; Serial No. 248,849; published Apr. 17, 1928. Class 15.
Leader Food Products Co., Chicago, Ill. Mayonnaise, Thousand Island dressing, and prepared mustard. 243,997; July 3; Serial Nos. 262,519-20; published Apr. 24, 1928. Class 46.
Lehne, John C., doing business as John C. Lehne Sales Co., New York, N. Y. Game. 243,859; July 3; Serial No. 259,246; published Apr. 10, 1928. Class 22.
Les Parfums de Rosine, Inc., New York, N. Y. Toilet articles. 244,018-36; July 3. Class 6.
Leveen, Hilda, doing business as Trinity Pharmacal Co., Boston, Mass. Ointments. 244,017; July 3; Serial No. 250,246; published Apr. 17, 1928. Class 6.
Levine, Samuel, and Abraham Fruchbaum, New York, N. Y. Jewelry. 243,993; July 3; Serial No. 261,270; published Apr. 24, 1928. Class 28.
Lincoln Wilder Co., Inc., St. Louis, Mo. Fresh potatoes. 244,004; July 3; Serial No. 262,314; published Apr. 24, 1928. Class 46.

Lineol Aktiengesellschaft, Brandenburg-on-the-Havel, Germany. Toy soldiers, animals, menageries, and farms. 243,839; July 3; Serial No. 260,029; published Apr. 17, 1928. Class 22.
Lipps, Frederick W., Co., The, Baltimore, Md. Candy. 243,951; July 3; Serial No. 259,962; published Apr. 24, 1928. Class 46.
Looboyle Refining Company, Tulsa, Okla., and Joplin, Mo. Gasoline and lubricating oils. 243,857; July 3; Serial No. 259,367; published Apr. 17, 1928. Class 15.
Lubrite Refining Company, St. Louis, Mo. Gasoline, 244,060; July 3. Class 15.
Lyons, Jay F., Los Angeles, Calif. Ice-cream powder. 243,821; July 3; Serial No. 243,382; published Apr. 17, 1928. Class 46.
Maas, Albert G., Indianapolis, Ind. Insecticide. 244,043; July 3. Class 6.
Maas, Albert G., Indianapolis, Ind. Preparation for exterminating rats and mice. 244,044; July 3. Class 6.
Mable, Todd & Co., New York, N. Y. Fountain pens. 71,236; renewed Nov. 10, 1928.
Macy, R. H., & Co., Inc., New York, N. Y. Canned salmon. 243,919; July 3; Serial No. 255,998; published Apr. 24, 1928. Class 46.
Madame Helena Rubenstein. (See Titus, Helena J.)
Madison, Dr. Rodney, doing business as Dr. Rodney Madison Laboratories, assignor to Dr. Rodney Madison Laboratories, Incorporated, Los Angeles, Calif. Electric or magnetic belts, solenoids, and bipolar applicators. 243,811; July 3; Serial No. 244,875; published Apr. 17, 1928. Class 44.
Malouf, Margaret, Brooklyn, N. Y. Combined sanitary napkin and belt. 243,887; July 3; Serial No. 262,104; published Apr. 10, 1928. Class 44.
Malt-Diastase Company, New York, N. Y. Concentrated liquid malt extracts. 243,995; July 3; Serial No. 261,199; published Apr. 24, 1928. Class 46.
Maltzyme Company, Inc., Long Island City, N. Y. Food product. 244,009; July 3; Serial No. 262,172; published Apr. 24, 1928. Class 46.
Marcus Brush Co. Inc., New York, N. Y. Paintbrushes. 243,945; July 3; Serial No. 260,952; published Apr. 17, 1928. Class 29.
Mark Jewelry Co., The, New York, N. Y. Finger rings. 243,851; July 3; Serial No. 261,370; published Apr. 10, 1928. Class 28.
Marsh, Halbert G., doing business as Acme Company, Birmingham, Ala. Electric smoothing irons. 243,966; July 3; Serial No. 247,903; published Apr. 24, 1928. Class 21.
Maryland Creamery Co., The, Baltimore, Md. Ice cream. 244,040; July 3. Class 46.
Mason, Jas. S., Co., to Philip Fischer, doing business as Jas. S. Mason & Co., Philadelphia, Pa., successor. Shoe, boot, and stove blackings and polishes. 69,426-7; renewed June 16, 1928.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Nose and throat spray and gargle. 243,902; July 3; Serial No. 262,732; published Apr. 24, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Nose and throat spray and gargle and mouth wash. 243,903; July 3; Serial No. 262,736; published Apr. 24, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Nose and throat spray and gargle. 243,910; July 3; Serial No. 262,757; published Apr. 24, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Magnesium hydroxide. 243,911; July 3; Serial No. 262,752; published Apr. 24, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Eyewash. 243,912; July 3; Serial No. 262,740; published Apr. 24, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Nose and throat spray and gargle. 243,913; July 3; Serial No. 262,739; published Apr. 24, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Cold and grippe tablets. 243,914; July 3; Serial No. 262,738; published Apr. 24, 1928. Class 6.
Meads Tobacco Co., The, Red Lion, Pa. Cigars, chewing and smoking tobacco. 243,867; July 3; Serial No. 256,735; published Apr. 24, 1928. Class 17.
Meagher, Matthew C., Bethlehem, Pa. Frozen confection. 243,810; July 3; Serial No. 246,042; published Apr. 17, 1928. Class 46.
Megson Piston Ring Co., Inc., Brooklyn, N. Y. Piston rings. 243,858; July 3; Serial No. 259,287; published Apr. 24, 1928. Class 35.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Laxative. 244,012; July 3; Serial No. 262,107; published Apr. 24, 1928. Class 6.
Meyers, Louis, & Son, assignor to Louis Meyers & Son, Inc., New York, N. Y. Leather gloves, gauntlets, and mittens. 71,306; renewed Nov. 17, 1928.
Mills Company, The, Cleveland, Ohio. Partitions, doors, and window and door frames. 244,048; July 3. Class 12.
Minnesota Macaroni Co., St. Paul, Minn. Alimentary pastes. 243,885; July 3; Serial No. 261,977; published Apr. 17, 1928. Class 46.
Modine Manufacturing Company, Racine, Wis. Heating apparatus and specialties. 243,978; July 3; Serial No. 229,189; published Apr. 24, 1928. Class 34.
Mohawk Electric Mfg. Co. (See Rollinson, Earl H.)
Mordt Company, The, Chicago, Ill. Lines and rope. 244,046; July 3. Class 7.

Motometer Company, Inc., The, Long Island City, N. Y. Tire gauges. 243,835; July 3; Serial No. 260,348; published Apr. 24, 1928. Class 26.
Mueller, H., Manufacturing Company, now by change of name to Mueller Co., Decatur, Ill. Enameled cast-iron bathtubs, lavatories, and basins. 70,303; renewed Aug. 18, 1928.
National Aniline & Chemical Company. (See Schoellkopf, Hartford & Hanna Company, assignor.)
Nerney, Lester W., doing business as The Knobby Krafters, Attleboro, Mass. Bracelets, brooches, lingerie fasteners, etc. 243,881; July 3; Serial No. 261,072; published Apr. 17, 1928. Class 28.
Neumann, Morton G., doing business as Valmor Chemical Laboratories, Chicago, Ill. Hair pomade. 243,921; July 3; Serial No. 256,477; published Apr. 24, 1928. Class 6.
New Haven Clock Company, The, New Haven, Conn. Watches and clocks. 243,987; July 3; Serial No. 261,716; published Apr. 24, 1928. Class 27.
Nichiro Gyogyo Kabushiki Kaisha, Tokyo, Japan. Canned fish, shellfish, beef, etc. No. 243,860; July 3; Serial No. 259,210; published Apr. 17, 1928. Class 46.
Nicomede, Joseph W., doing business as Nicomede Music Co., Altoona, Pa. Banjo and mandolin picks. 243,880; July 3; Serial No. 261,073; published Apr. 17, 1928. Class 36.
Nodashoyu-Kabushikikaisha, Noda-Machi, Higashikatsushika-Gun, Chiba-Ken, Japan. Soy, sauce, vinegar, soy extract, etc. 243,820; July 3; Serial No. 243,823; published Apr. 17, 1928. Class 46.
Nowak, Walter, doing business as Excellent Mfg. Co., Buffalo, N. Y. Furniture and piano polish. 243,862; Serial No. 258,647; published Apr. 17, 1928. Class 16.
Odorless Refrigeration Company, The, to Tennessee Furniture Corporation, Chattanooga, Tenn., successor. Refrigerators. 71,233; renewed Nov. 10, 1928.
O'Kay Products Corporation, Detroit, Mich. Lubricating oils and greases, motor oil, cup grease, and compounds. 243,935; July 3; Serial No. 260,344; published Apr. 3, 1928. Class 15.
O'Keefe & Merritt Co., Los Angeles, Calif. Gas ranges. 244,056; July 3. Class 34.
Oro Watch Co., New York, N. Y. Watches and watch movements. 243,896; July 3; Serial No. 262,479; published Apr. 17, 1928. Class 27.
Paraffine Companies, Inc., The, San Francisco, Calif. Paints, varnishes, paint enamels, and lacquers. 243,868; July 3; Serial No. 255,604; published Apr. 10, 1928. Class 16.
Paul, Samuel, doing business as The Hollywood Laboratory, Los Angeles, Calif. General tonic having a wine base. 243,978; July 3; Serial No. 261,982; published Apr. 24, 1928. Class 6.
Penn Battery Company, Lock Haven, Pa. Storage batteries. 243,834; July 3; Serial No. 260,468; published Apr. 17, 1928. Class 21.
Penn Petroleum and Supply Company, Philadelphia, Pa. Lubricating oil and grease. 244,007; July 3; Serial No. 262,257; published Apr. 24, 1928. Class 15.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Electric household irons. 243,980; July 3; Serial No. 261,925; published Apr. 24, 1928. Class 21.
Pennino, Oreste, doing business as Pennino Brothers, New York, N. Y. Jewelry. 243,870; July 3; Serial No. 255,045; published Apr. 17, 1928. Class 28.
Pennino, Oreste, doing business as Pennino Brothers, New York, N. Y. Jewelry. 243,917; July 3; Serial No. 255,463; published Apr. 24, 1928. Class 28.
Perfection Stove Company, Cleveland, Ohio. Gasoline or pressure-vapor stoves, parts thereof, and fuel-supply tanks for detachable connection to such stoves. 243,970; July 3; Serial No. 242,968; published Apr. 24, 1928. Class 34.
Philippeau, Juliette L., New York, N. Y. Food-flavoring preparation. 243,904; July 3; Serial No. 262,817; published Apr. 24, 1928. Class 46.
Pike, Frank A., Rochester, N. Y. Underground garbage containers. 243,982; July 3; Serial No. 261,905; published Apr. 24, 1928. Class 2.
Pilsener Brewing Co., The, Cleveland, Ohio. Malt syrup. 243,888; July 3; Serial No. 262,118; published Apr. 17, 1928. Class 46.
Pittsburgh Water Heater Company, Pittsburgh, Pa. Gas hot-water heaters. 243,968; July 3; Serial No. 243,880; published Apr. 3, 1928. Class 34.
Polar Malt Company. (See Kedzie, Adam S.)
Portable Self-Serving Store Company, Dover, Del., and Houston, Tex. Vending machines. 243,846; July 3; Serial No. 261,521; published Apr. 24, 1928. Class 23.
Preservaline Manufacturing Co., The, New York, to The Preservaline Manufacturing Company, Brooklyn, N. Y. Certain named preservatives. 32,041; renewed Oct. 11, 1928.
Pullman Car and Manufacturing Corporation, Chicago, Ill. Ferrous-metal castings. 243,990; July 3; Serial No. 261,587; published Apr. 17, 1928. Class 14.
Pure Oil Company, The, Chicago, Ill. Kerosene, benzine, distillate, and lubricating oils and greases. 243,822; July 3; Serial No. 242,208; published Apr. 17, 1928. Class 15.
Quality Jly. Co., New York, N. Y. Platinum jewelry. 243,877; July 3; Serial No. 261,144; published Apr. 17, 1928. Class 28.

Quicksheen Polish Co., Prospect Park, N. J. Liquid polish for automobiles and furniture. 243,856; July 3; Serial No. 259,874; published Apr. 17, 1928. Class 16.

Ransom, D., Son and Company, Buffalo, N. Y. Liniment. 70,519; renewed Sept. 8, 1928.

Reed & Carnrick, Jersey City, N. J. Medicinal preparations. 243,916; July 3; Serial No. 255,202; published Apr. 24, 1928. Class 6.

Reid, A. L., & Co., New York, N. Y. Lawn. 71,175; renewed Nov. 10, 1928.

Reiner & Berkow, Inc., New York, N. Y. Bracelets, brooches, bar pins, etc. 243,836; July 3; Serial No. 260,242; published Apr. 17, 1928. Class 28.

Reliance Gauge Company, The, assignor to The Reliance Gauge Column Company, Cleveland, Ohio. Boiler fittings and furnishings. 32,083; renewed Oct. 18, 1928.

Ritsy Products Co. (See Valet, Edward P.)

Roach, W. R. & Co., Grand Rapids, Mich. Canned fruits, fish, and vegetables, etc. 243,844; July 3; Serial No. 261,685; published Apr. 17, 1928. Class 46.

Roberts, G. G., Corporation, Whitman, Mass. Clinching nails. 243,931; July 3; Serial No. 259,877; published Apr. 24, 1928. Class 13.

Rock Island Brewing Company, Rock Island, Ill. Malt syrup for food purposes. 243,853; July 3; Serial No. 261,282; published Apr. 17, 1928. Class 46.

Rollinson, Earl H., doing business as Mohawk Electric Mfg. Co., Brooklyn, N. Y. Radio parts and accessories, etc. 243,960; July 3; Serial No. 245,924; published Dec. 20, 1927. Class 21.

Rose, William D., doing business as Have a Heart Candy Co., Portland, Oreg. Candy bars. 243,938; July 3; Serial No. 260,699; published Apr. 24, 1928. Class 46.

St. Louis Label Works, St. Louis, Mo. Paper boxes. 243,925; July 3; Serial No. 258,841; published Apr. 24, 1928. Class 2.

Samarotto, Louis, New York, N. Y. Olive oil. 243,889; July 3; Serial No. 262,124; published Apr. 17, 1928. Class 46.

Schoellkopf, Hartford & Hanna Company, Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Disinfectant, antiseptic, and deodorizing preparation. 69,529; renewed June 16, 1928.

Scholl Mfg. Co. Inc., Chicago, Ill. Arch supports. 243,827–9; July 3; Serial Nos. 260,915-17; published Apr. 17, 1928. Class 44.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Arch supports. 243,892; July 3; Serial No. 262,333; published Apr. 17, 1928. Class 44.

Schreiber Products Corporation, Buffalo, N. Y. Malt-extract powder. 243,939; July 3; Serial No. 260,853; published Apr. 24, 1928. Class 46.

Schwartz, Isidor, New York, N. Y. Motion-picture novelty films and trailers. 243,884; July 3; Serial No. 261,914; published Apr. 24, 9128. Class 26.

Sears, Roebuck and Co., Chicago, Ill. Electric-lighting fixtures and lamps. 243,985; July 3; Serial No. 261,773; published Apr. 24, 1928. Class 21.

Seidel, George W., Evanston, Ill. Bakery goods. 244,041; July 3. Class 46.

Shoten, Hiyama, Honolulu, Hawaii. Liquid sauce or flavoring known as soy. 243,967; July 3; Serial No. 247,616; published Apr. 24, 1928. Class 46.

Silberman, Joseph, doing business as Corinthian Pharmacy, Philadelphia, Pa. Medicinal liquid preparation. 243,929; July 3; Serial No. 258,960; published Apr. 24, 1928. Class 6.

Smith & Nichols, Incorporated, New York, N. Y. Candles. 243,813; July 3; Serial No. 244,578; published Apr. 17, 1928. Class 15.

Smith Premier Typewriter Company, The, Syracuse and New York, N. Y. Carbon paper. 244,015; July 3; Serial No. 262,042; published Apr. 24, 1928. Class 11.

Spitz, Arnstein & Co. Inc., New York, N. Y. Candies. 243,837; July 3; Serial No. 260,146; published Apr. 17, 1928. Class 46.

Standard Oil Company of New Jersey, Wilmington, Del. Oils and greases. 244,001; July 3; Serial No. 262,421; published Apr. 24, 1928. Class 15.

Standard Oil Company of New York, New York, N. Y. Refined petroleum. 69,676; renewed June 30, 1928.

Steinhardt & Co., New Orleans, La. Chemically-treated fuller's earth. 243,932; July 3; Serial No. 258,918; published Apr. 24, 1928. Class 6.

Straus, Leo R., & Co., New York, N. Y. Rings, brooches, pins, bracelets, etc. 243,940; July 3; Serial No. 260,859; published Apr. 24, 1928. Class 28.

Strauss & Strauss, New York, N. Y. Finger rings. 243,841; July 3; Serial No. 261,777; published Apr. 17, 1928. Class 28.

Synthetic Nitrogen Products Corporation, New York, N. Y. Fertilizer. 244,000; July 3; Serial No. 262,429; published Apr. 24, 1928. Class 10.

Tennessee Furniture Corporation. (See Odorless Refrigeration Company, The.)

Tinnerman, Albert H., doing business as Tinnerman Stove & Range Company, Cleveland, Ohio. Nuts. 244,038; July 3. Class 13.

Tiny Taters, Inc., Cleveland, Ohio. Potato chips. 243,905; July 3; Serial No. 262,943; published Apr. 24, 1928. Class 46.

Titus, Helena J., doing business as Madame Helena Rubenstein, New York, N. Y. Rouges and lip sticks. 243,957–8; July 3; Serial Nos. 251,588–9; published Apr. 17, 1928. Class 6.

Trinity Pharmacal Co. (See Leveen, Hilda.)

Tugwell & Wiseman, Inc., Modeltown, N. Y. Canned fruits and vegetables. 243,909; July 3; Serial No. 262,781; published Apr. 24, 1928. Class 46.

Turow, Charles, New York, N. Y. Jewelry. 243,992; July 3; Serial No. 261,291; published Apr. 24, 1928. Class 28.

Uneedit Battery Co. (See Bright Star Battery Co.)

Uniform Products Company, Lancaster, Pa. Fertilizers. 243,962; July 3; Serial No. 251,289; published Sept. 27, 1927. Class 10.

Union Condensed Milk Company, assignor, by mesne assignments, to The Borden Company, New York, N. Y. Foods. 71,080–1; renewed Oct. 27, 1928.

United Electric Company, The, Canton, Ohio. Electrically-operated vacuum cleaners. 243,855; July 3; Serial No. 251,694; published Sept. 6, 1927. Class 21.

United States Ozone Company, Chicago, Ill. Apparatus for ionizing air in connection with general ventilation. 243,830; July 3; Serial No. 260,781; published Apr. 17, 1928. Class 21.

Universal Food Products Co., Chicago, Ill. Malt syrup for food purposes. 243,824; July 3; Serial No. 239,835; published Apr. 17, 1928. Class 46.

Val Blatz Brewing Co., Milwaukee, Wis. Malt syrup. 243,897; July 3; Serial No. 262,495; published Apr. 17, 1928. Class 46.

Valmor Chemical Laboratories. (See Neumann, Morton G.)

Vejola Company, Inc., Philadelphia, Pa. Compound of vegetable fat. 243,981; July 3; Serial No. 261,920; published Apr. 24, 1928. Class 46.

Velat, Edward P., doing business as Ritsy Products Co., St. Paul, Minn. Egg noodles. 244,003; July 3; Serial No. 262,337; published Apr. 24, 1928. Class 46.

Virginia Dare Extract Company, Inc., Brooklyn, N. Y. Flavoring extracts for foods. 243,977; July 3; Serial No. 262,005; published Apr. 24, 1928. Class 46.

Vulcan Last Company, The, doing business as Vulcan Golf Company, Portsmouth, Ohio. Golf balls. 243,893–4; July 3; Serial Nos. 262,338–19; published Apr. 17, 1928. Class 22.

Wadsworth Watch Case Company, The, Dayton, Ky. Belt buckles, strap buckles, and metal wrist-watch straps. 243,816; July 3; Serial No. 244,376; published Apr. 17, 1928. Class 28.

Waldman, Mitchall, New York, N. Y. Jewelry. 243,946; July 3; Serial No. 260,968; published Apr. 24, 1928. Class 28.

Ward Cowman and Company, Mallard, Iowa. Device for supplying moisture in cigar cases and the like. 244,050; July 3. Class 8.

Warren Manufacturing Company, Warren, R. I. Cotton and silk piece goods, etc. 244,011; July 3; Serial No. 262,137; published Apr. 24, 1928. Class 42.

Waterous Fire Engine Works, Incorporated, St. Paul, Minn. Fire hydrants. 243,954; July 3; Serial No. 245,385; published Apr. 24, 1928. Class 13.

Webb Belting Co., Kansas City, Mo. Leather belting. 244,045; July 3. Class 35.

Weinman Bros. and Scher, New York, N. Y. Finger rings. 243,850; July 3; Serial No. 261,411; published Apr. 17, 1928. Class 28.

West Virginia Pulp and Paper Company, New York, N. Y. Fibre board for electrical insulation. 243,879; July 3; Serial No. 261,088; published Apr. 17, 1928. Class 21.

Western Envelope Corporation, Brooklyn, N. Y. Paper boxes, cartons, etc. 243,953; July 3; Serial No. 245,039; published Apr. 24, 1928. Class 2.

Whitlock, Magdalen S., Clarendon, Va. Hand cream. 244,010; July 3; Serial No. 262,139; published Apr. 17, 1928. Class 6.

Wolff Manufacturing Corporation, Chicago, Ill. Bathtubs, sinks, and lavatories. 243,956; July 3; Serial No. 252,872; published Apr. 24, 1928. Class 13.

Wright, S. B., doing business as Wright Products Co., Chicago, Ill. Preparation for stopping runs in hosiery and silk. 244,006; July 3; Serial No. 262,279; published Apr. 24, 1928. Class 6.

Wurm Brothers Company, Chicago, Ill. Canned fruits and vegetables, preserved and dried fruit, nuts, etc. 243,926; July 3; Serial No. 258,848; published Apr. 24, 1928. Class 46.

Yager Sheet Metal Company, Oakland, Calif. Galvanized-iron louver ventilators, leader pipes, leader heads, etc. 243,971; July 3; Serial No. 230,393; published Apr. 24, 1928. Class 34.

Yeager Furniture Company, The, Allentown, Pa. Tables. 243,832; July 3; Serial No. 260,664; published Apr. 24, 1928. Class 22.

York Heating & Ventilating Corporation, Bridgeport and Philadelphia, Pa. Heat-diffusing units. 243,963; July 3; Serial No. 250,588; published Sept. 27, 1927. Class 34.

Zesinger, William R., South Bend, Ind. Watch and clock balance wheels. 243,876; July 3; Serial No. 261,156; published Apr. 10, 1928. Class 27.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Alma-Vita. (See Chase, Alma C.)

American Broom & Brush Co., Amsterdam, N. Y. Manibu. For Brooms and Whisk Brooms. 34,226; July 3.

Arbenz, Carl H., doing business as Niagara Products Co., Glendale, Calif. Niagara Fire Stop Cartridge. For Portable Fire Extinguishers. 34,227; July 3.

Bismarck Malt Co., The, Baltimore, Md. Bismarck. For Malt Syrup. 34,228; July 3.

Chase, Alma C., doing business as Alma-Vita, Los Angeles, Calif. Magic Plastique Liquid Masque. For a Cosmetic. 34,229; July 3.

Chase, Alma C., doing business as Alma-Vita, Los Angeles, Calif. La Rejuvene Astringent. For a Cosmetic. 34,230; July 3.

Chase, Alma C., doing business as Alma-Vita, Los Angeles, Calif. Klen-Derma Cleanser. For a Cosmetic. 34,231; July 3.

Chase, Alma C., doing business as Alma-Vita, Los Angeles, Calif. Nu-Hair Hair Restorer. For a Cosmetic. 34,232; July 3.

Chula Vista Citrus Association, Chula Vista, Calif. Sir Galahad. For Lemons. 34,233; July 3.

Copperweld Steel Company, Glassport, Pa. Copperweld Glassport, Pa. For Wire Reels. 34,234; July 3.

Davis, Frazier L., Boston, Mass. Cleroglas. For Glass and Enamel and Cleaner. 34,235; July 3.

Expello Corporation, The, Dover, N. H. Expello. For Moth and Moth-Larvæ Killer. 34,236; July 3.

Frances Citrus Association, Tustin, Calif. Paul Jones. For Fresh Oranges. 34,237; July 3.

G-G Products Company. (See Grossman, George E.)

Grossman, George E., doing business as G-G Products Company, Cleveland Heights, Ohio. Minute Man's. For Polishing Compound for Automobiles, Furniture, Metal, and Woodwork. 34,238; July 3.

Heath, Mrs. R. L., Oconto, Wis. Horse Feathers. For Candy Bar. 34,239; July 3.

Hoague-Sprague Corporation, Lynn, Mass. The Bradley Shoe. For Boxes. 34,240; July 3.

Hoague-Sprague Corporation, Lynn, Mass. The Hannah Shoe. For Boxes. 34,241; July 3.

Hoague-Sprague Corporation, Lynn, Mass. Sterling Shoes. For Boxes. 34,242; July 3.

Hollister, Caroline, doing business as Wyne-Pak Distributors, Santa Rosa, Calif., and New York, N. Y. Wyne-Pak. For Jellies. 34,243; July 3.

Koh & Sons, Ltd., Bangkok, Siam. White Elephant Rice. For Rice. 34,244; July 3.

Los Angeles Brewing Co., Los Angeles, Calif. Eastside. For a Beverage. 34,245; July 3.

Maxstadt, William, Cincinnati, Ohio. Tomorrow's Orders. For Milk. 34,246; July 3.

Niagara Products Co. (See Arbenz, Carl H.)

Orange Mutual Citrus Association, Orange, Calif. Paul Revere. For Fresh Oranges. 34,247; July 3.

Oregon Milk Company, Portland, Oreg. Oregon Brand. For Evaporated Unsweetened Milk. 34,248; July 3.

Physicians & Hospitals Supply Co., Inc., Minneapolis, Minn. Guaiasul. For Medicinal Preparation for Relieving Coughs. 34,249; July 3.

Real Silk Hosiery Mills, Inc., Indianapolis, Ind. Real Silk Sheer Chiffon Hosiery. For Hosiery. 34,250; July 3.

Red Devil Chemical Works. (See Sadur, Hyman.)

Reich, Ernest, doing business as Ernest Reich & Company, Chicago, Ill. Magikitch'n. For Sifters. 34,251; July 3.

Roach-Appleton Manufacturing Company, Chicago, Ill. Raco. For Electrical Protecting Material. 34,252; July 3.

Rolland Products Company, Detroit, Mich. Everfresh. For Egg Preserver. 34,253; July 3.

Roth & Company, Orange, N. J. Twin 6. For Eggs. 34,254; July 3.

Sadur, Hyman, doing business as Red Devil Chemical Works, Chicago, Ill. Red Devil Insect Killer. For Insect Exterminator. 34,255; July 3.

Snow, Virginia, Elgin, Ill. Child's Embroidery Set. For Novelty Consisting of a Scarf, Pillow Top, Pair of Fiber Embroidery Hoops, Embroidery Floss, Thimble, and Needle. 34,256; July 3.

Snow, Virginia, Elgin, Ill. Playtime Embroidery Box. For Novelty Consisting of a Scarf, Pillow Top, Pair of Fiber Embroidery Hoops, Embroidery Floss, Thimble, and Needle. 34,257; July 3.

Snow, Virginia, Elgin, Ill. Child's Embroidery Set. For Novelty Consisting of a Quilt, Pair of Embroidery Hoops, Thimble, Needle and Embroidery Floss. 34,258; July 3.

Sterling Products Company, Evansville, Ind. Sterling. For Malt Extract. 34,259; July 3.

Sutherland Paper Company, Kalamazoo, Mich. Michigan Clover. For Butter. 34,260; July 3.

Tasty Nut Shops, Inc., Cleveland, Ohio. Tasty Nut Shops, Inc. For Nuts. 34,261; July 3.

Texas Bread Company, Houston, Tex. Tex Whole Wheat Bread. For Bread. 34,262; July 3.

Texas Bread Company, Houston, Tex. Holsum Bread. For Bread. 34,263; July 3.

Wheatsworth, Inc., New York, N. Y. Wheatsworth Graham Crackers. For Crackers. 34,264; July 3.

Wheatsworth, Inc., New York, N. Y. Individual Service Package Wheatsworth Graham Crackers. For Crackers. 34,265; July 3.

Wolock & Bauer, Chicago, Ill. Wolock & Bauer. For Shoes. 34,266; July 3

Wyne-Pak Distributors. (See Hollister, Caroline.)

Zuckerman, Roscoe C., Stockton, Calif. Superb Potatoes. For Sacked Potatoes. 34,267; July 3.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Stove Company, St. Louis, Mo., Chicago, Ill., and Cleveland and Lorain, Ohio. Temperature Chart. For Gas Ranges. 10,954; July 3.

Arden, Elizabeth, Inc., doing business as Elizabeth Arden, New York, N. Y. A Face like a Weary Old Shoe. For Venetian Toilet Preparations. 10,955; July 3.

B. V. D. Company, Inc., The, New York, N. Y. Why the Knowing Millions Say. For Athletic Underwear. 10,957; July 3.

B. V. D. Company, Inc., The, New York, N. Y. The Fit that's World-Famous. For Athletic Underwear. 10,958; July 3.

Black, Starr & Frost, New York, N. Y. How Exquisitely Beautiful are the Bracelet Watches of Today. For Jewelry. 10,956; July 3.

Collingbourne Mills, Inc., The, Elgin, Ill. Collingbourne's Sparkling Tinsel. For Tinsel Gift Cord. 10,959; July 3.

Coty, Inc., Wilmington, Del., and New York, N. Y. Colcreme Coty Cleansing—Nourishing—Beautifying. For Face Cream. 10,960; July 3.

Coty, Inc., Wilmington, Del., and New York, N. Y. Les Poudres Coty to be Freshly Lovely Throughout Summer Days. For Powders. 10,961; July 3.

Coty, Inc., Wilmington, Del., and New York, N. Y. Les Poudres Coty. For Face Powder. 10,962; July 3.

Coty, Inc., Wilmington, Del., and New York, N. Y. Double Compacte Coty. For Powder and Rouge Compact and Lip Stick. 10,963; July 3.

Coty, Inc., Wilmington, Del., and New York, N. Y. Le Talc Coty. For Talcum Powders. 10,964; July 3.

Cream of Wheat Co., Minneapolis, Minn. Too Big for the Nursery—not Big Enough for School. For Wheat Breakfast Food. 10,965; July 3.

Federal Rubber Company, The, Cudahy, Wis. Chesty Jim. For Tires. 10,966; July 3.

Goodyear Tire & Rubber Company Inc., The, Akron, Ohio. Good (Wingfoot) Year The World's Greatest Tire. For Tires Composed Wholly or in Part of Rubber. 10,967; July 3.

Hagerling, Fred J., St. Louis, Mo. Use Thunderbolt Tire Patch. For Tire Patches. 10,968; July 3.

Heinz, H. J., Company, doing business as Heinz, Pittsburgh, Pa. In Entertaining as in Opera Singing. For Heinz "57" Varieties. 10,969; July 3.

Herzog, Joseph L., & Co., New York, N. Y. White Rose Wedding Ring. For Wedding Rings. 10,970; July 3.

Italian Vineyard Co., Los Angeles and Guasti, Calif. California Sierra Tonic made with Port or Sherry Builds You up. For Wine Tonic. 10,971; July 3.

Italian Vineyard Co., Los Angeles and Guasti, Calif. Guasti Pure California Cooking Wines. For Wine Flavoring and Sauces. 10,972; July 3.

Italian Vineyard Co., Los Angeles and Guasti, Calif. Guasti Tonic. For Wine Tonic. 10,973; July 3.

Johnson, Charles Eneu, and Company, Philadelphia, Pa. The Roller. For Printing Inks. 10,974; July 3.

Johnson, Charles Eneu, and Company, Philadelphia, Pa. The Target. For Printing Inks. 10,975; July 3.

Johnson, Charles Eneu, and Company, Philadelphia, Pa. The Tempest of Colors. For Printing Inks. 10,976; July 3.

Johnson, Charles Eneu, and Company, Philadelphia, Pa. Photo Brown. For Printing Inks. 10,977; July 3.

Johnson, Charles Eneu, and Company, Philadelphia, Pa. Eneu Black. For Printing Inks. 10,978; July 3.

Johnson, Charles Eneu, and Company, Philadelphia, Pa. The Rainbow. For Printing Inks. 10,979; July 3.

King Coal and Supply Company, Inc., Baltimore, Md. King Coal. For Coal. 10,980; July 3.

Marinello Company, The, New York, N. Y. Your Skin Needs a Professional Treatment Once a Week. For Marinello Products. 10,981; July 3.

New Haven Clock Company, The, New Haven, Conn. Until You See Tip-Top You Will Never Know How Fine a Wrist-Watch $3.50 Can Buy. For Watches. 10,982; July 3.

New Haven Clock Company, The, New Haven, Conn. Try to Match Tip-Top's Features at Anywhere Near Its Price. For Watches. 10,983; July 3.

New Haven Clock Company, The, New Haven, Conn. Designed For Looks, Made for Service, Tip-Top Graces any Wrist. For Watches. 10,984; July 3.

New Haven Clock Company, The, New Haven, Conn. Clean-Cut, Trim and Fit, Tip-Top Looks Twice the Price in any Company. For Watches. 10,985; July 3.

New Haven Clock Company, The, New Haven, Conn. Tip-Top—The Finest Wrist-Watch $3.50 Ever Bought. For Watches. 10,986; July 3.

Red Bird Chilli Company, St. Joseph, Mo. R. B. C. For Concentrated Pure and Imitation Fruit-Flavored Drinks. 10,987; July 3.

Stein, A., & Company, Chicago, Ill. The Ounce of Protection. For Sanitary Belts, Sanitary Aprons, Step-Ins, and Bloomers. 10,988; July 3.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abbott, William T., doing business as William T. Abbott & Co., Boston, Mass. Tea. 266,180; July 3. Class 46.

Alcardi, James A., & Sons, Inc., Boston, Mass. Food preparations. 265,249; July 3. Class 46.

Alles, Clifton C., Los Angeles, Calif. Toy vehicles. 264,859; July 3. Class 22.

American Chicle Company, Long Island City, N. Y. Chewing gum and cachous. 259,667; July 3. Class 46.

American Laundry Machinery Company, The, Norwood Station, Cincinnati, Ohio. Monthly publication. 265,769; July 3. Class 38.

American Writing Paper Company, Inc., Holyoke, Mass. Color charts and pamphlets. 265,877; July 3. Class 38.

Appelbaum, Isaac, doing business as The Hangerette Company, New York, N. Y. Foldable cardboard containers for wearing apparel. 262,786; July 3. Class 2.

Arco Battery & Plate Co., The, Fort Wayne, Ind. Batteries and battery plates. 265,608; July 3. Class 21.

Atwood Grape Fruit Company, The, Manavista, Fla. Fresh grapefruit. 262,787; July 3. Class 46.

Automotive Manufacturing Company. (See Lafite, Roger G.)

Baker, A. T., & Co., Inc., Manayunk, Philadelphia, Pa. Pile fabrics in the piece. 235,540; July 3. Class 42.

Ballinger, W. A., doing business as W. A. Ballinger & Co., San Francisco, Calif. Mops and mop heads. 266,013; July 3. Class 29.

Bamberger, L., & Company, Newark, N. J. Millinery. 263,850; July 3. Class 39.

Bamberger-Reinthal Company, The, Cleveland, Ohio. Caps, scarfs, and sweaters. 256,710; July 3. Class 39.

Batt Brothers, New York, N. Y. Cigarettes. 255,047; July 3. Class 17.

Bauer, William E., doing business as Bauer & Bauer, Norristown, Pa. Household cleansing preparation. 259,706–7; July 3. Class 4.

Beardsley & Wolcott Mfg. Co., The, Hartford, Conn. Electric toasters. 265,940. July 3. Class 21.

Berry's, James B., Sons Company, Chicago, Ill. Solid-asphalt products. 262,441; July 3. Class 12.

Beveridge Paper Company, The, Indianapolis, Ind. Cover paper, bristol, and cardboard. 266,349; July 3. Class 37.

Be Vier and Co., Inc., New York, N. Y. Printed lists of household commodities. 259,709; July 3. Class 38.

Blake Manufacturing Co., Springfield, Mass. Flash lights. 262,646; July 3. Class 21.

Bower & Kaufmann, Philadelphia, Pa. Hosiery. 265,031; July 3. Class 39.

Bozeman Milling Company. (See Montana Flour Mills Company.)

Bradigan Tablet Concern, The, Jamestown, N. Y. Medicinal preparations. 235,360; July 3. Class 6.

Brauns, Vernon T., doing business as The Progress Press, Chicago, Ill. Radio call finder. 263,747; July 3. Class 38.

Brown, George W., Clinton, Iowa. Newspaper columns. 266 238; July 3. Class 38.

Brown, J. A., Collinsville, Okla. Bread. 266,788; July 3. Class 46.

Brown & Williamson Tobacco Corporation, Winston-Salem, N. C. Smoking and chewing tobacco. 264,669; July 3. Class 17.

Buchsbaum, S., & Co., Chicago, Ill. Finger rings, napkin rings, pearls to be strung on strings of pearls, and belt buckles. 261,857; July 3. Class 28.

Cahill, Thomas E., doing business as The Checkeroll Company, Ardmore, Pa. Modified checker game. 259,994; July 3. Class 22.

California Prune & Apricot Growers Association, San Jose, Calif. Prune paste. 263,457; July 3. Class 46.

Campbell, J. A., Long Beach, Calif. Pressure control and relief valves. 265,193; July 3. Class 13.

Carbonell y Co. Cordoba, Spain. Pure olive oil. 259,842; July 3. Class 46.

Carr Milling Company, The, Hamilton, Ohio. Self-rising flour. 264,635; July 3. Class 46.

Central Milling Co. of Tennessee, Memphis, Tenn., and Birmingham, Ala., assignor to Central Mills Corporation, Memphis, Tenn. Bread and wheat biscuit flour. 242,948; July 3. Class 46.

Chain Store Publishing Corporation, The, New York, N. Y. Periodical publication. 266,516; July 3. Class 38.

Chappel Bros., Inc., Rockford, Ill. Liver extract and hemoglobin compound. 253,938; July 3. Class 6.

Checkeroll Company, The. (See Cahill, Thomas E.)

Colson Company, The, Elyria, Ohio. Velocipedes. 264,144; July 3. Class 22.

Combustioner, Inc., Chicago, Ill. Coal-handling equipment. 261,943; July 3. Class 34.

Commander Milling Company, Minneapolis, Minn. Wheat flour. 266,648; July 3. Class 46.

Compagnie Belge Goliath, Brussels, Belgium. Pneumatic rock hammer drills, pneumatic brushing machines, etc. 263,643; July 3. Class 23.

Conquest Mill Engineering Company, Limited, London, England. Mills for grinding or pulverizing. 263,539–40; July 3. Class 23.

Cornstalk Products Company, Inc., New York, N. Y. Print, wrapping, writing, book, and tissue paper. 265,525; July 3. Class 37.

Delbon, Frank G., Brooklyn, N. Y. Metal shanks for shoes. 262,704; July 3. Class 13.

Denver Fire Clay Company, The, Denver, Colo. Graphite crucibles (melting type), assay clay goods, etc. 266,854; July 3. Class 26.

Derco Trunk Co., The, Los Angeles, Calif. Trunks and hand luggage. 261,950; July 3. Class 3.

Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Soaps including toilet soaps and shaving sticks. 242,048; July 3. Class 4.

Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Soaps including shavings sticks. 242,102; July 3. Class 4.

Disney, Walter E., Hollywood, Calif. Motion pictures reproduced in copies for sale. 266,717; July 3. Class 26.

Dolmatz, Sam, New York, N. Y. Ladies' frocks. 258,625; July 3. Class 39.

Dorland, John Paul, Inc., Philadelphia, Pa. Monthly magazine. 266,193; July 3. Class 38.

Doubleday, Doran & Company, Inc., Garden City, N. Y. Magazine. 266,919; July 3. Class 38.

Dubilier Condenser Corporation, New York, N. Y. Electrical condensers of constant capacity and devices. 240,070–1; July 3. Class 21.

Duplex Silk Mills, Inc., New York, N. Y. Silks in the piece. 264,971; July 3. Class 42.

Ehlers, Albert, Inc., New York, N. Y. Coffee. 266,721–2; July 3. Class 46.

Enterprise Manufacturing Company, The, Akron, Ohio. Artificial bait. 265,329; July 3. Class 22.

Eskimo Pie Corporation, Louisville, Ky. Ice-cream confections. 257,974; July 3. Class 46.

Espe Drug Co., The, Subsidiary of Model Drug Stores, Incorporated, Louisville, Ky. Medicine. 264,548; July 3. Class 6.

Farr Bros. Co., Allentown, Bethlehem, Reading, and Easton, Pa. Shoes. 265,372; July 3. Class 39.

Fawcett Publications, Inc., Robbinsdale, Minn. Magazines. 265,470; July 3. Class 38.

Federal Mail Order Corporation, New York, N. Y. Watches, watch movements, watchcases, and parts of watches. 264,974; July 3. Class 27.

Federal Washboard Company, The, Tiffin, Ohio. Ironing tables. 265,528; July 3. Class 24.

Ferguson Gear Company, Gastonia, N. C. Belting. 262,073; July 3. Class 35.

Fight Stories, Inc., New York, N. Y. Monthly magazine. 265,531; July 3. Class 38.

Fineart Foods, Inc., Tuckahoe, N. Y. Coffee and tea. 262,958; July 3. Class 46.

Fischer, J. A., Company, Philadelphia, Pa. Distributor and oil-pump gears. 261,953; July 3. Class 23.

Fits-U Cap Co., St. Louis, Mo. Headware. 264,029; July 3. Class 39.

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Florida Fruit Canners Inc., Frostproof, Fla. Canned grapefruit. 261,052; July 3. Class 46.

Follman, Louis, New York, N. Y. Ready-mixed paint. 264,370; July 3. Class 16.

Frei Bros., Santa Rosa and Sebastopol, Calif. Fresh apples. 264,976; July 3. Class 46.

Friction Products Company, Aberdeen, Wash. Friction blocks, edger pin stock, etc. 265,430; July 3. Class 35.

Gabriel, Oscar L., doing business as Happie-Easter Dye Company, Brooklyn, N. Y. Dyes. 256,772; July 3. Class 6.

Galveston Mills, Gretna, Va. Wheat flour. 252,244; July 3. Class 46.

Garst, Goodwin, doing business as Garst Manufacturing Co., Chicago, Ill. Scrapers. 261,751; July 3. Class 23.

Gehlert, R. S., & Co., Detroit, Mich. Coffee. 266,368; July 3. Class 46.

Gem-Daudy Garter Co., Madison, N. C. Garters, arm bands, and suspenders. 264,515; July 3. Class 39.

General Tire & Rubber Company, The, Akron, Ohio. Vehicle tires and tubes and patches. 239,408; July 3. Class 35.

Genting, A. H., Co., Inc., Philadelphia, Pa. Shoes. 235,681; July 3. Class 39.

Ginsberg, S., Sons, Baltimore, Md. Men's and boys' clothing. 264,819; July 3. Class 39.

Grant Oil Burner Corporation, New York, N, Y. Oil burners. 230,623; July 3. Class 34.

Grant, W. T., Company, Lynn, Mass., and New York, N. Y. Rayon underwear for women and children. 264,681; July 3. Class 39.

Gregory & Read Company, Lynn, Mass. Boots and shoes. 265,475; July 3. Class 39.

Gruber and Steinberg, St. Louis, Mo. Neckties. 262,456; July 3. Class 39.

Gunmaken Raw Silk Corporation of America, New York, N. Y. Raw silk. 263,603; July 3. Class 1.

H. & W. Company, The, Newark, N. J. Combination garments. 263,548; July 3. Class 39.

H. & W. Company, The, Newark, N. J. Bandeaux, girdles, and belts. 264,097; July 3. Class 39.

Hahne & Company, Newark, N. J. Suits, coats, trousers, etc. 264,231; July 3. Class 39.

Haight, A. S., & Company, New York, N. Y. Men's athletic underwear. 255,750; July 3. Class 39.

Hale-Halsell Company, McAlester, Okla. Coffee. 265,210; July 3. Class 46.

Hale-Halsell Company, McAlester, Okla. Coffee. 266,200; July 3. Class 46.

Halpern, Louis, Shoe Company, Inc., Boston, Mass. Shoes. 265,437; July 3. Class 39.

Handy Tire Gauge Manufacturing Company, Syracuse, N. Y. Tire gauges. 265,046; July 3. Class 26.

Hangerette Company, The. (See Applebaum, Isaac.)

Hanover Cordage Company, Hanover, Pa. White fibre twine. 266,807; July 3. Class 7.

Happie-Easter Dye Company. (See Gabriel, Oscar L.)

Harrison Lumber Company, Portland, Oreg. Lumber. 263,892; July 3. Class 12.

Heal-Ol Laboratories. (See Witte, E. B.)

Heine & Co., New York, N. Y. Natural and synthetic oils. 264,101; July 3. Class 6.

Hills Brothers Company, The, New York, N. Y. Fresh grapefruit. 266,320; July 3. Class 46.

Hirsch, Louis, Inc., Weehawken, N. J., and New York, N. Y. Hosiery-machine needles. 259,113; July 3. Class 23.

Holland Shoe Company, Holland, Mich. Leather shoes. 265,480; July 3. Class 39.

Hordes, Joseph, Inc., New York, N. Y. Slickers, necktles, pajamas, etc. 244,400; July 3. Class 39.

Howey, W. J., Co., Howey-In-The-Hills, Fla. Table water and fruit juices for beverage purposes. 261,674; July 3. Class 45.

Hudson Hat Manufacturing Co. Inc., Nutley, N. J. Men's hats. 248,410; July 3. Class 39.

Jacobsen Publishing Company, The, Chicago, Ill. Weekly magazine. 266,543; July 3. Class 38.

Jaden, Fred I., doing business as F. Jaden Manufacturing Co., Hastings, Nebr. Oil cans. 260,571; July 3. Class 2.

Janszen Company, The, Cincinnati, Ohio. Catchup, chile con carne, canned berries, etc. 259,495; July 3. Class 46.

Japan Paper Company, New York, N. Y. Italian handmade and handlaid writing and printing paper. 266,800; July 3. Class 37.

Kansas Mill & Elevator Company, The, Arkansas City, Kans. Wheat flour. 265,651; July 3. Class 46.

Kappa Phi Kappa, Hanover, N. H. Fraternity badges, lapel buttons, cuff links, etc. 261,260; July 3. Class 28.

Keith, Geo. E., Company, Brockton, Mass. Hosiery. 263,476; July 3. Class 39.

Kemp Brothers Packing Co., Frankfort, Ind. Bottled or canned tomato juice. 263,951; July 3. Class 46.

Kilborn & Bishop Co., The, New Haven, Conn. Traffic markers. 264,688; July 3. Class 14.

Kip, Frank C., Inc., Chicago, Ill. Untreated wiping-cloth material. 263,409; July 3. Class 42.

Knott, Archer F., Dinwiddie, Va. Hand rakes and hoes. 266,203; July 3. Class 23.

Kortlee Frock, Inc., New York, N. Y. Silk goods in the piece. 266,820–1; July 3. Class 42.

Lafite, Roger G., doing business as Automotive Manufacturing Company, Kansas City, Mo. Batteries. 264,760; July 3. Class 21.

Lahey, Walter S., New York, N. Y. Leather gloves. 264,587; July 3. Class 39.

Lefax, Philadelphia, Pa. Periodical pamphlets, data sheets, and printed books. 246,418; July 3. Class 38.

Levy, Harrison M., doing business as Zebest Products Co. of California, Los Angeles, Calif. Food flavors. 265,048; July 3. Class 46.

Lewis, Frank P., Cigar Co., Peoria, Ill. Cigars. 262,721; July 3. Class 17.

Lewis-Wise Co. Inc., New York, N. Y. Robes, dressing gowns, lounge suits, etc. 265,222; July 3. Class 39.

Licht, Harry, New York, N. Y. Hosiery. 261,319; July 3. Class 39.

Limoneira Company, Santa Paula, Calif. Fresh citrus fruit. 268,483; July 3. Class 46.

Linthicum, Geo. E., Baltimore, Md. Malt syrup. 266,207; July 3. Class 46.

Loeb, H., & Co., Inc., New York, N. Y. Underwear, bath suits, vests, etc. 243,161–2; July 3. Class 39.

Lowry Cartoon Corporation, Chicago, Ill. Series of cartoons. 265,485; July 3. Class 38.

Malda Electric Manufacturing Company, Chicago, Ill. Electric sadirons, percolators, toasters, etc. 256,951–4; July 3. Class 21.

Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Candies. 256,000; July 3. Class 46.

Matchett, James J., Co., New York, N. Y. Candy. 265,487; July 3. Class 46.

McCafferty, James A., & Sons Manufacturing Company, Inc., Brooklyn, N. Y. White lend, combination white leads, etc. 264,770; July 3. Class 16.

Mentholatum Company, The, Wichita, Kans., and Buffalo, N. Y. Shaving cream and soap shampoo. 257,808; July 3. Class 4.

Merchants' News Publishing Co. (See Meyer, August C.)

Meyer, August C., doing business as Merchants' News Publishing Co., Albany, N. Y. Weekly newspaper. 262,573; July 3. Class 38.

Middle West Hat Mfg. Company, The, Cleveland, Ohio. Men's hats. 263,963; July 3. Class 39.

Miller Rubber Company, The, Akron, Ohio. Bathing caps, household aprons, rubber gloves, slippers, etc. 262,671; July 3. Class 39.

Model Drug Stores, Incorporated. (See Espe Drug Co., The, Subsidiary.)

Mohawk Electric Manufacturing Co. (See Rollinson, Earl H.)

Montana Flour Mills Company, also doing business as Bozeman Milling Company, Great Falls, Mont. Wheat flour. 266,435; July 3. Class 46.

Musher and Company, Washington, D. C. Shortening. 265,840; July 3. Class 46.

Naamlooze Vennootschap E. Noack's Koninklijke Fijne Vleeschwaren- en Conservenfabrieken, Amersfoort, Netherlands. Meat and preserves. 257,593; July 3. Class 46.

National Industrial Conference Board, Inc., New York, N. Y. Monthly publication. 266,260; July 3. Class 38.

National Industrial Conference Board, Inc., New York, N. Y. Semimonthly publication. 266,261; July 3. Class 38.

Nevitt and Goodwin, Washington, D. C. Candies, cakes, and mayonnaise dressing. 257,612; July 3. Class 46.

Newtowne Manufacturing Company, Boston, Mass. Men's, women's, and children's raincoats. 264,999; July 3. Class 39.

New York Bakery, Fort Worth, Tex. Bread. 258,481; July 3. Class 46.

New York Times Company, The, New York, N. Y. Newspaper section. 266,214; July 3. Class 38.

Norm Manufacturing Co. (See Thurston, Walter R.)

Nyrayco Importing & Converting Corp., New York, N. Y. Rayon yarns and threads. 265,286; July 3. Class 43.

Ohio Malt Products Co., Toledo, Ohio. Malt syrup. 266,395; July 3. Class 46.

Okutani, Frank S., Los Angeles, Calif. Fresh vegetables. 266,825; July 3. Class 46.

Old Gold Combination White Lead and Color Corporation, New York, N. Y. Paints and painters' materials. 263,336; July 3. Class 16.

Onondaga Silk Company, Inc., Syracuse and New York, N. Y. Silk fabrics in the piece. 266,877; July 3. Class 42.

Orange Products Co., Orange, Tex. Canned pork and beans, canned figs and lima beans, etc. 254,470; July 3. Class 46.

Oshkosh Trunk Company, The, Oshkosh, Wis. Trunks and hand luggage. 229,979; July 3. Class 3.

Paper Supply Company, Inc., The, Minneapolis, Minn. School writing books and tablets. 250,758; July 3. Class 37.

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Paradise Koverite Co., New York, N. Y. Infants' carriage covers made of textile. 247,867; July 3. Class 42.

Paton, John G., Company, Inc., The, New York, N. Y. Honey. 265,926; July 3. Class 46.

Patsy's Candies, Inc., Colorado Springs, Colo. Candy, candied pop corn, etc. 263,512; July 3. Class 46.

Pendleton Woolen Mills, Portland, Oreg. Woolen blankets. 265,292; July 3. Class 42.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Shoulder-strap ribbon in the piece or bolt, tablecloths, etc. 261,926; July 3. Class 42.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Ladies' garters. 264,911; July 3. Class 39.

Pepperell Manufacturing Company, Boston, Mass. Crib blankets and crib sheets of textile material. 258,235; July 3. Class 42.

Pepperell Manufacturing Company, Boston, Mass. Blankets and bed and crib coverings. 266,091; July 3. Class 42.

Perkins Marine Lamp Corporation, Brooklyn, N. Y. Electric lamps and lanterns, searchlights, and signs. 264,325; July 3. Class 21.

Perky, Scott H., doing business as Perky Products, Batavia, N. Y. Cereal food product. 266,398; July 3. Class 46.

Perugia, André. Paris, France. Satchels, band bags, valises, etc. 260,134; July 3. Class 3.

Phelps Tire & Rubber Company, Garfield, N. J. Automobile tires and inner tubes. 263,346; July 3. Class 35.

Pittsburgh Reflector Company, Pittsburgh, Pa. Lamp reflectors of silvered glass, core lighting reflectors, etc. 264,532; July 3. Class 34.

Pohlmeyer, Inc., Wallington, N. J. Camel-hair, red and black sable, etc., paintbrushes. 259,871; July 3. Class 29.

Prina, Frank R., Corporation, The, New York, N. Y. Wheat mixed feed. 264,328; July 3. Class 46.

Progress Press, The. (See Brauns, Vernon T.)

Prosteel Company, Chicago, Ill. Steel cabinets and cupboards, kitchenette units, etc. 265,928; July 3. Class 32.

Pyro-Chex Company, St. Louis, Mo. Instrument for massaging the gums. 266,216; July 3. Class 44.

Rand Kardex Service Corporation, Tonawanda, assignor to Remington Rand Business Service Corporation, New York, N. Y. Blank and partially-printed cards and forms for indexes, etc. 255,821; July 3. Class 37.

Rau Fastener Company, Providence, R. I. Pin fasteners. 261,649; July 3. Class 40.

Reach, A. J., Company, Philadelphia, Pa. Baseball uniforms, shoes, football pants, etc. 264,656; July 3. Class 39.

Reckitt & Sons, Limited, Hull, England. Polishing and cleaning preparations for glass. 266,440; July 3. Class 4.

Reinau, Erich, Berlin-Steglitz, Germany. Fertilizing material. 266,099; July 3. Class 10.

Remington Rand Business Service Corporation. (See Rand Kardex Service Corporation.)

Roach, Tisdale & Co., Minneapolis, Minn. Candy bar. 253,684; July 3. Class 46.

Rollinson, Earl H., doing business as Mohawk Electric Manufacturing Co., Newark, N. J. Radio parts and equipments. 210,984; July 3. Class 21.

Ronzone, Michele, doing business as Sweetheart Baking Co., Elkhart, Ind. Bread. 257,762; July 3. Class 46.

Rowe, Howard A., Omaha, Nebr. Mineral water. 265,500; July 3. Class 45.

Rubie Blade Corporation, New York, N. Y. Razor blades. 261,458; July 3. Class 23.

Ryan, Edwin J., Chicago, Ill. Printed publication. 261,652; July 3. Class 38.

Sands Manufacturing Company, The, Cleveland, Ohio. Thermosiphon discharge fittings for fluid holding tanks. 263,429; July 3. Class 13.

San Juan Fishing & Packing Co., Seattle, Wash. Fresh, salt, and pickled fish. 256,544; July 3. Class 46.

Schicht, Georg., A. G., Aussig, Czechoslovakia. Margarine. 258,592; July 3. Class 46.

Scotch Malt Company. (See Silver, Jacob M.)

Scovill Manufacturing Company, Waterbury, Conn. Common and safety pins. 211,236; July 3. Class 40.

Scoville & Co., Inc. San Juan, P. R. Canned fruits. 264,737; July 3. Class 46.

Shainin, I., & Co., New York, N. Y. Base-metal bowls, candy dishes, flower holders, etc. 261,462; July 3, Class 13.

Shapiro, Ira J., New York, N. Y. Razor blades. 265,988; July 3. Class 23.

Shepard, Joseph C., Wilmington, N. C. Ready-mixed paints, varnishes, floor dressings, and fillers. 265,699; July 3. Class 16.

Sherwood Distilling & Distributing Company, The, Baltimore, Md. Straight rye whiskey. 263,673; July 3. Class 49.

Signet Hosiery Company, Cambridge, Mass. Lingerie. 264,206; July 3. Class 39.

Silver, Jacob M., doing business as Scotch Malt Company, Hartford, Conn. Malt syrup. 261,222; July 3. Class 46.

Simpson, Fred W., doing business as Western States Farmers Exchange and Honey Dew Mills, Chicago, Ill. Poultry and stock feed. 266,486; July 3. Class 46.

Sinclair Refining Company, New York, N. Y. Lubricating oils. 266,222–3; July 3. Class 15.

Slands Manufacturing Company, New York, N. Y. Coats, topcoats, overcoats, etc. 263,352; July 3. Class 39.

Squire Dingee Company Chicago, Ill. Canned vegetables, canned deciduous fruits, etc. 264,781; July 3. Class 46.

Standard Apple Products Inc., Hamlin, N. Y. Evaporated apples. 265,935; July 3. Class 46.

Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum without admixture of other materials. 264,262; July 3. Class 15.

Stearns Marketing Company, Nogales, Ariz. Fresh tomatoes. 259,344; July 3. Class 46.

Stern Brothers, New York, N. Y. Neckwear, suits, coats, dresses, etc. 260,966; July 3. Class 39.

Stoody Company, Whittier, Calif. Metal alloy. 266,153; July 3. Class 14.

Swanson, William A., Dallas, Tex. Display cabinet for greeting cards. 266,630; July 3. Class 32.

Sweetheart Baking Co. (See Ronzone, Michele.)

Teichman, A. S., Greensboro, N. C. Dress shirts. 262,430; July 3. Class 39.

Texas Vegetable Oil Co., San Antonio, Tex. Vegetable shortening. 266,840; July 3. Class 46.

Thompson, Edward, Company, Northport, N. Y. Monthly magazine. 266,194; July 3. Class 38.

Thompson's Dairy, Washington, D. C. Eggs, butter, cheese, milk, and cream. 266,692; July 3. Class 46.

Thurston, Walter R., doing business as Norm Manufacturing Co., Los Angeles, Calif. Joint paste. 257,645; July 3. Class 12.

Toledo Scale Company, Jersey City, N. J., and Toledo, Ohio. House organ. 266,058; July 3. Class 38.

Tolley Cake Corporation, New York, N. Y. Cakes. 265,740; July 3. Class 46.

Tredwell, Lillie, (Kreipe), Chicago, Ill. Coats, dresses, and millinery. 262,916; July 3. Class 39.

Triumph Electric Corporation, The, Cincinnati, Ohio. Electric motors. 265,707; July 3. Class 21.

Van Buren County Canning Company, Hartford, Mich. Canned vegetables and fruits, noodles, etc. 259,476; July 3. Class 46.

Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Fence wire, wire gauze, barbed wire, etc. 261,293; July 3. Class 13.

Village Blacksmith Folks, The, Watertown, Wis. Grass and weed cutters. 258,052; July 3. Class 23.

Vulcan Crucible Steel Co., Aliquippa, Pa. Steel. 264,785; July 3. Class 14.

Walker, George, Boston, Mass. Ship's shaft-revolution indicator. 262,274; July 3. Class 26.

Warren Manufacturing Company, The, Riegelsville, N. J., and New York, N. Y. Waxed wrapping paper and waxed paper. 266,696; July 3. Class 37.

Webb Belting Co., Kansas City, Mo. Belt dressing. 265,708; July 3. Class 4.

Webb Belting Co., Kansas City, Mo. Solid round belt. 265,937; July 3. Class 35.

Weil, Henry, Needle Art Corp., New York, N. Y. Fabrics stamped for embroidery and tapestry patts. 263,522; July 3. Class 40.

Western States Farmers Exchange and Honey Dew Mills. (See Simpson, Fred W.)

Weyenberg Shoe M'f'g. Co., Milwaukee, Wis. Leather shoes. 263,999; July 3. Class 39.

White and Hallock, Inc., Muskegon, Mich. Beaters for culinary purposes. 257,209; July 3. Class 23.

White Luggage Co., Inc., New York, N. Y. Hatboxes. 263,246; July 3. Class 3.

Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Domestic refrigerating machines. 262,834; July 3. Class 31.

Witte, E. B., doing business as Heal-O-l Laboratories, Trenton, N. J. Antiseptic solution. 260,302; July 3. Class 6.

Wright Manufacturing Company, Inc., Philadelphia, Pa. Vigil-light cups composed of glass. 266,113; July 3. Class 33.

Wynn, C. W., Selma, Ala. Fish lures. 246,800; July 3. Class 22.

Young, Richard, Company, New York, N. Y. Leather. 263,348; July 3. Class 1.

Zalud-Kaufman Co. Inc., New York, N. Y. Dresses and gowns. 264,341; July 3. Class 39.

Zebest Products Co. of California. (See Levy, Harrison M.)

Zip Abrasive Company, The, Cleveland, Ohio. Lubricating oils. 265,938; July 3. Class 15.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 2.

Boxes, cartons, and merchandise envelopes, Paper. Western Envelope Corporation. 243,953; July 3; Serial No. 245,039; published Apr. 24, 1928.

Boxes, Paper. St. Louis Label Works. 243,925; July 3; Serial 258,841; published Apr. 24, 1928.

Containers, Underground garbage. F. A. Pike. 243,982; July 3; Serial No. 261,905; published Apr. 24, 1928.

Tanks, Enameled. Glascote Company. 243,975; July 3; Serial No. 226,352; published Apr. 24, 1928.

CLASS 4.

Blackings and polishes, Shoe, boot, and stove. Jas. S. Mason Co. 69,426–7; renewed June 16, 1928.

Soap. J. P. Davies Company. 70,548; renewed Sept. 15, 1928.

CLASS 6.

Antiseptic silver salts. Chemische Fabrik von Heyden Aktien-Gesellschaft. 66,947; renewed Jan. 7, 1928.

Cream, Hand. M. S. Whitlock. 244,010; July 3; Serial No. 262,139; published Apr. 17, 1928.

Disinfectant, antiseptic, and deodorizing preparation. Schoellkopf, Hartford & Hanna Company. 69,529; renewed June 16, 1928.

Eye wash. McKesson & Robbins, Incorporated. 243,912; July 3; Serial No. 262,740; published Apr. 24, 1928.

Fuller's earth, Chemically-treated. Steinhardt & Co. 243,932; July 3; Serial No. 258,918; published Apr. 24, 1928.

Hair restorer. E. B. Crump. 244,014; July 3; Serial No. 262,064; published Apr. 24, 1928.

Insecticide. A. G. Maas. 244,043; July 3.

Laxative. Wm. S. Merrell Company. 244,012; July 3; Serial No. 262,107; published Apr. 24, 1928.

Liniment. D. Ransom, Son and Company. 70,519; renewed Sept. 8, 1928.

Magnesium hydroxide, McKesson & Robbins, Incorporated. 243,911; July 3; Serial No. 262,752; published Apr. 24, 1928.

Medicinal liquid preparation. J. Silberman. 243,929; July 3; Serial No. 258,960; published Apr. 24, 1928.

Medicinal preparations. Reed & Carnrick. 243,916; July 3; Serial No. 255,202; published Apr. 24, 1928.

Ointments. H. Leveen. 244,017; July 3; Serial 250,246; published Apr. 17, 1928.

Oxide, Antimony. Compagnie Métallurgique de la Campine Soc. An. 243,906; July 3; Serial No. 262,954; published Apr. 24, 1928.

Pomade, Hair. M. G. Neumann. 243,921; July 3; Serial No. 256,477; published Apr. 24, 1928.

Preparation. S. Fargo. 243,924; July 3; Serial No. 258,806; published Apr. 24, 1928.

Preparation for exterminating rats and mice. A. G. Maas. 244,044; July 3.

Preparation for stopping runs in hosiery and silk. S. B. Wright. 244,006; July 3; Serial No. 262,279; published Apr. 24, 1928.

Preservatives, Certain named. Preservaline Manufacturing Co. 32,041; renewed Oct. 11, 1928.

Repellent, Moth. Creofiont Manufacturing Co. 243,991; July 3; Serial No. 261,306; published Apr. 24, 1928.

Rouges and lip sticks. H. J. Titus. 243,957–8; July 3; Serial No. 251,588–9; published Apr. 17, 1928.

Spray and gargle and mouth wash, Nose and throat. McKesson & Robbins, Incorporated. 243,903; July 3; Serial 262,736; published Apr. 24, 1928.

Spray and gargle, Nose and throat. McKesson & Robbins, Incorporated. 243,902; July 3; Serial No. 262,732; published Apr. 24, 1928.

Spray and gargle, Nose and throat. McKesson & Robbins, Incorporated. 243,910; July 3; Serial No. 262,757; published Apr. 24, 1928.

Spray and gargle, Nose and throat. McKesson & Robbins, Incorporated. 243,913; July 3; Serial No. 262,739; published Apr. 24, 1928.

Tablets, Cold and grip. McKesson & Robbins, Incorporated. 243,914; July 3; Serial No. 262,738; published Apr. 24, 1928.

Toilet articles. Les Parfums de Rosine, Inc. 244,018–36; July 3.

Tonic having a wine base, General. S. Paul. 243,978; July 3; Serial No. 261,982; published Apr. 24, 1928.

CLASS 7.

Lines and rope. Mordt Company. 244,046; July 3.

CLASS 8.

Cigar cases and the like, Device for supplying moisture in. Ward Cowman and Company. 244,050; July 3.

CLASS 10.

Fertilizer. Synthetic Nitrogen Products Corporation. 244,000; July 3; Serial No. 262,429; published Apr. 24, 1928.

Fertilizers. Uniform Products Company. 243,962; July 3; Serial No. 251,289; published Sept. 27, 1927.

CLASS 11.

Carbon paper. Smith Premier Typewriter Company. 244,015; July 3; Serial No. 262,042; published Apr. 24, 1928.

CLASS 12.

Cement, Portland. Alpha Portland Cement Company. 70,500; renewed Sept. 8, 1928.

Partitions, doors, and window and door frames. Mills Company. 244,048; July 3.

Shingles, Asphalt. Barber Asphalt Company. 244,047; July 3.

CLASS 13.

Bathtubs, lavatories, and basins, Enameled cast-iron. H. Mueller Manufacturing Company. 70,303; renewed Aug. 18, 1928.

Bathtubs, sinks, and lavatories. Wolff Manufacturing Corporation. 243,956; July 3; Serial No. 252,872; published Apr. 24, 1928.

Clips, Metal. W. C. Krabiel. 243,979; July 3; Serial No. 261,962; published Apr. 24, 1928.

Fittings and furnishings, Boiler. Reliance Gauge Company. 32,083; renewed Oct. 18, 1928.

Hydrants, Fire. Waterous Fire Engine Works, Incorporated. 243,954; July 3; Serial No. 245,385; published Apr. 24, 1928.

Nails, Clinching. G. G. Roberts Corporation. 243,931; July 3; Serial No. 259,877; published Apr. 24, 1928.

Nuts. A. H. Tinnerman. 244,038; July 3.

Pipe fittings, valves, and cocks. Grinnell Company. 243,955; July 3; Serial No. 249,898; published Apr. 24, 1928.

CLASS 14.

Alloys, Aluminum. Egal Metal Products Company. 244,002; July 3; Serial No. 262,352; published Apr. 17, 1928.

Castings, Ferrous-metal. Pullman Car and Manufacturing Corporation. 243,990; July 3; Serial No. 261,587; published Apr. 17, 1928.

Solder, Aluminum. Gardner & Yates. 243,922; July 3; Serial No. 257,540; published Apr. 24, 1928.

Steel for piston rings, Expander. Beck Products Co. 244,055; July 3.

CLASS 15.

Candles. Smith & Nichols, Incorporated. 243,813; July 3; Serial No. 244,578; published Apr. 17, 1928.

Gasoline. California Petroleum Corporation. 243,823; July 3; Serial No. 241,392; published Apr. 17, 1928.

Gasoline. Lubrite Refining Company. 244,060; July 3.

Gasoline and lubricating oils. Looboyle Refining Company. 243,857; July 3; Serial No. 259,367; published Apr. 17, 1928.

Gasoline, motor oil, and other lubricating oils and greases. Bartles-Maguire Oil Company. 243,890; July 3; Serial No. 262,198; published Apr. 17, 1928.

Kerosene, benzine, distillate, and lubricating oils and greases. Pure Oil Company. 243,822; July 3; Serial No. 242,208; published Apr. 17, 1928.

Kerosene, fuel oil, naphtha, and gasoline. Blue Ribbon Oil Company. 243,809; July 3; Serial No. 246,883; published Aug. 6, 1927.

Oil and grease, Lubricating. Penn Petroleum and Supply Company. 244,007; July 3; Serial No. 262,257; published Apr. 24, 1928.

Oil, Penetrating graphite. G. A. Lazear. 243,808; July 3; Serial No. 248,849; published Apr. 17, 1928.

Oils and greases. Standard Oil Company of New Jersey. 244,001; July 3; Serial No. 262,421; published Apr. 24, 1928.

Oils and greases, Lubricating. Crown Oil & Wax Co. 243,875; July 3; Serial No. 253,312; published Apr. 3, 1928.

Oils and greases, motor oil, cup grease, and compounds, Lubricating. O'Kay Products Corporation. 243,935; July 3; Serial No. 260,344; published Apr. 3, 1928.

Oils, greases, petrol, and kerosene, Lubricating. Combined Buyers Limited. 243,920; July 3; Serial No. 256,335; published Apr. 24, 1928.

Petroleum, Refined. Standard Oil Company of New York. 69,676; renewed June 30, 1928.

CLASS 16.

Emulsion for wall covering. American Crayon Company. 243,833; July 3; Serial No. 260,482; published Apr. 17, 1928.

Enamel, Paint. Chicago White Lead & Oil Co. 243,825; July 3; Serial No. 217,998; published Oct. 12, 1926.

Lacquers, lacquer enamels, stains, etc. Eastern Lacquer Company. 243,865; July 3; Serial No. 257,973; published Apr. 17, 1928.

Paints, Artists'. M. Grumbacher. 243,871; July 3; Serial No. 254,911; published Apr. 10, 1928.

Paints, varnishes, paint enamels, and lacquers. Paraffine Companies. 243,868; July 3; Serial No. 255,604; published Apr. 10, 1928.

Polish for automobiles and furniture, Liquid. Quicksheen Polish Co. 243,856; July 3; Serial No. 259,874; published Apr. 17, 1928.
Polish, Furniture and piano. W. Nowak. 243,862; July 3; Serial No. 258,647; published Apr. 17, 1928.

CLASS 17.

Cigars. G. G. Haaxma. 243,878; July 3; Serial No. 261,113; published Apr. 24, 1928.
Cigars, chewing and smoking tobacco. Meads Tobacco Co. 243,867; July 3; Serial No. 256,735; published Apr. 24, 1928.

CLASS 19.

Automobile arm rests, Movable. J. Finn. 244,054; July 3.
Stanchions, davits, stern frames, etc. J. Isaacson. 243,918; July 3; Serial No. 255,714; published Aur. 24, 1928.
Steering wheels. Inland Manufacturing Company. 243,941; July 3; Serial No. 260,890; published Apr. 24, 1928.
Telltale devices. American Chain Company. 243,972; July 3; Serial No. 231,468; published Apr. 24, 1928.

CLASS 21.

Batteries and parts thereof, Storage. Gould Storage Battery Co. 243,883; July 3; Serial No. 261,876; published Apr. 17, 1928.
Batteries, Electric. Bright Star Battery Co. 243,937; July 3; Serial No. 260,552; published Apr. 24, 1928.
Batteries, Storage. Duncan Oil Company. 243,849; July 3; Serial No. 261,426; published Apr. 10, 1928.
Batteries, Storage. Penn Battery Company. 243,834; July 3; Serial No. 260,463; published Apr. 17, 1928.
Circuit interrupters or flashers, Electric. General Appliance Corporation. 243,819; July 3; Serial No. 243,852; published Apr. 17, 1928.
Electric signs, Luminous. American Signs Corporation. 243,845; July 3; Serial No. 261,601; published Apr. 17, 1928.
Electrical fire-alarm systems and parts thereof. Gamewell Company. 243,861; July 3; Serial No. 258,867; published Apr. 17, 1928.
Electrical resistance devices. International Resistance Company. 243,807; July 3; Serial No. 253,150; published Apr. 17, 1928.
Fibre board for electrical insulation. West Virginia Pulp and Paper Company. 243,879; July 3; Serial No. 261,088; published Apr. 17, 1928.
Ignition systems, Replacement parts for. Guarantred Parts Co. 243,882; July 3; Serial No. 261,809; published Apr. 17, 1928.
Ionizing air in connection with general ventilation, Apparatus for. United States Ozone Company. 243,830; July 3; Serial No. 260,781; published Apr. 17, 1928.
Irons, Electric household. J. C. Penney Company. 243,980; July 3; Serial No. 261,925; published Apr. 24, 1928.
Irons, Electric smoothing. H. G. Marsh. 243,966; July 3; Serial No. 247,903; published Apr. 24, 1928.
Plates for switch boxes, Wall. Hemco Electric Manufacturing Company. 243,964; July 3; Serial No. 249,225; published Apr. 24, 1928.
Radio loud speakers. Air-Chrome Studios, Inc. 243,983; July 3; Serial No. 261,855; published Apr. 24, 1928.
Radio parts and accessories, etc. E. H. Rollinson. 243,960; July 3; Serial No. 245,924; published Dec. 20, 1927.
Radio receiving sets and radio receiver construction kits and parts thereof. Browning-Drake Corporation. 243,872; July 3; Serial No. 254,790; published Apr. 17, 1928.
Lighting fixtures and lamps, Electric. Sears, Roebuck and Co. 243,985; July 3; Serial No. 261,773; published Apr. 24, 1928.
Vacuum cleaners, Electrically-operated. United Electric Company. 243,855; July 3; Serial No. 251,694; published Sept. 6, 1927.

CLASS 22.

Banks, Toy and souvenir. Bloom Manufacturing Company. 243,843; July 3; Serial No. 261,734; published Apr. 10, 1928.
Dolls. L. C. Ament. 243,848; July 3; Serial No. 261,473; published Apr. 17, 1928.
Game. J. C. Lehne. 243,859; July 3; Serial No. 259,246; published Apr. 10, 1928.
Golf balls. Vulcan Last Company. 243,893–4; July 3; Serial Nos. 262,338–9; published Apr. 17, 1928.
Toy soldiers, animals, menageries, and farms. Lineol Aktiengesellschaft. 243,839; July 3; Serial No. 260,029; published Apr. 17, 1928.

CLASS 23.

Bearings, Roller. Fairmont Railway Motors, Inc. 244,052–3; July 3.
Binding machines, Clusor. Incorporated. 243,863; July 3; Serial No. 258,621; published Apr. 24, 1928.
Floor-treating machines, scrubbing machines, mop trucks, etc. Finnell System, Inc. 243,873; July 3; Serial No. 254,275; published Apr. 24, 1928.
Molding and dispensing device, Ice-cream. J. Denaro. 243,842; July 3; Serial No. 261,739; published Apr. 24, 1928.
Pumps. S. F. Bowser & Company. 243,899; July 3; Serial No. 262,793; published Apr. 24, 1928.
Vending machines. Portable Self-Serving Store Company. 243,846; July 3; Serial No. 261,521; published Apr. 24, 1928.

CLASS 24.

Dry-cleaning machines, Rotary. M. H. Glassman. 243,936; July 3; Serial No. 260,441; published Apr. 24, 1928.

CLASS 26.

Films and trailers, Motion-picture novelty. I. Schwartz. 243,884; July 3; Serial No. 261,914; published Apr. 24, 1928.
Gauges, Tire. Motometer Company. 243,835; July 3; Serial No. 260,343; published Apr. 24, 1928.

CLASS 27.

Clocks. Ansonia Clock Company. 244,058; July 3.
Clocks. William L. Gilbert Clock Company. 243,854; July 3; Serial No. 261,187; published Apr. 10, 1928.
Watch and clock balance wheels. W. R. Zesinger. 243,876; July 3; Serial No. 261,156; published Apr. 10, 1928.
Watches. L. H. Burnett. 243,974; July 3; Serial No. 228,224; published Apr. 24, 1928.
Watches and clocks. New Haven Clock Company. 243,987; July 3; Serial No. 261,716; published Apr. 24, 1928.
Watches and watch movements. Oro Watch Co. 243,896; July 3; Serial No. 262,479; published Apr. 17, 1928.
Watches, watchcases, watch movements, and parts thereof. Hipp. Didisheim Co. 243,831; July 3; Serial No. 260,683; published Apr. 17, 1928.

CLASS 28.

Badges, pins, buttons, links, clasps, rings, etc., of precious metal, Fraternity. Alpha Delta Pi. 243,817; July 3; Serial No. 244,341; published Apr. 17, 1928.
Bracelets, brooches, bar pins, etc. Reiner & Berkow, Inc. 243,836; July 3; Serial No. 260,242; published Apr. 17, 1928.
Bracelets, brooches, lingerie fasteners, etc. N. W. Nerney. 243,881; July 3; Serial No. 261,072; published Apr. 17, 1928.
Buckles and metal wrist-watch straps, Belt and strap. Wadsworth Watch Case Company. 243,816; July 3; Serial No. 244,376; published Apr. 17, 1928.
Cuff buttons, belt buckles, hat pins, etc. Davis & Lowe Company. 243,952; July 3; Serial No. 260,104; published Apr. 24, 1928.
Jewelry. Axel Bros. 243,942; July 3; Serial No. 260,931; published Apr. 24, 1928.
Jewelry. S. Berger. 243,943; July 3; Serial No. 260,932; published Apr. 24, 1928.
Jewelry. S. Koshers. 243,944; July 3; Serial No. 260,945; published Apr. 24, 1928.
Jewelry. Kruger & Gottlieb. 243,994; July 3; Serial No. 261,265; published Apr. 24, 1928.
Jewelry. S. Levine and A. Fruchtbaum. 243,993; July 3; Serial No. 261,270; published Apr. 24, 1928.
Jewelry. O. Pennino. 243,870; July 3; Serial No. 255,045; published Apr. 17, 1928.
Jewelry. O. Pennino. 243,917; July 3; Serial No. 255,463; published Apr. 24, 1928.
Jewelry. C. Turow. 243,992; July 3; Serial No. 261,291; published Apr. 24, 1928.
Jewelry. M. Waldman. 243,946; July 3; Serial No. 260,968; published Apr. 24, 1928.
Jewelry, Platinum. Quality Jly. Co. 243,877; July 3; Serial No. 261,144; published Apr. 17, 1928.
Mountings and settings for finger rings and brooches, bracelets, and chains for watches and lockets. Haimes & Klein, Inc. 243,934; July 3; Serial No. 260,330; published Apr. 24, 1928.
Platinum bracelets. Anderson & Kroener. 243,999; July 3; Serial No. 262,438; published Apr. 24, 1928.
Rings and mountings, scarf pins, brooches, etc., Finger. England, Klein & Levy, Incorporated. 243,840; July 3; Serial No. 260,006; published Apr. 17, 1928.
Rings, bar pins, and bracelets, Finger. Hamilburg-Shaw Corporation. 243,838; July 3; Serial No. 260,121; published Apr. 17, 1928.
Rings, bar pins, scarfpins, and bracelets, Finger. I. Garson. 243,947; July 3; Serial No. 260,996; published Apr. 24, 1928.
Rings, brooches, pins, bracelets, etc., Finger. Leo. R. Straus & Co. 243,940; July 3; Serial No. 260,859; published Apr. 24, 1928.
Rings, Finger. Interstate Smelting & Refining Co. Inc. 243,986; July 3; Serial No. 261,755; published Apr. 24, 1928.
Rings, Finger. M. Johnson. 243,996; July 3; Serial No. 261,009; published Apr. 24, 1928.
Rings, Finger. Mark Jewelry Co. 243,851; July 3; Serial No. 261,370; published Apr. 10, 1928.
Rings, Finger. Strauss & Strauss. 243,841; July 3; Serial No. 261,777; published Apr. 17, 1928.
Rings, Finger. Weinman Bros. and Scher. 243,850; July 3; Serial No. 261,411; published Apr. 17, 1928.
Rings, pins, brooches, pendants, links, etc., Finger. W. J. Harber Co. 244,016; July 3; Serial No. 262,030; published Apr. 24, 1928.

Rings, Wedding. L. N. Jacobs. 243,847; July 3; Serial No. 261,513; published Apr. 10, 1928.

CLASS 29.

Brushes. Adams-White Brush Company. 243,923; July 3; Serial No. 257,846; published Apr. 24, 1928.
Paintbrushes. Marcus Brush Co. Inc. 243,945; July 3; Serial No. 260,952; published Apr. 17, 1928.

CLASS 31.

Refrigerators. Odorless Refrigeration Company. 71,238; renewed Nov. 10, 1928.

CLASS 32.

Tables. Yeager Furniture Company. 243,832; July 3; Serial No. 260,664; published Apr. 24, 1928.

CLASS 33.

Glass jars and glasses. Illinois Glass Company. 243,989; July 3; Serial No. 261,632; published Apr. 24, 1928.

CLASS 34.

Heat-diffusing units. York Heating & Ventilating Corporation. 243,963; July 3; Serial No. 250,588; published Sept. 27, 1927.
Heaters and parts thereof, Gas. Adams Bros. Mfg. Co. Inc. 243,959; July 3; Serial No. 251,470; published Apr. 24, 1928.
Heaters, Gas, hot-water. Pittsburg Water Heater Company. 243,968; July 3; Serial No. 243,880; published Apr. 3, 1928.
Heating apparatus and specialties. Modine Manufacturing Company. 243,973; July 3; Serial No. 229,189; published Apr. 24, 1928.
Iron louver ventilators, leader pipes, etc., Galvanized-. Yager Sheet Metal Company. 243,971; July 3; Serial No. 230,393; published Apr. 24, 1928.
Ranges, Gas. O'Keefe & Merritt Co. 244,056; July 3.
Stoves, parts thereof, etc., Gasoline or pressure-. Perfection Stove Company. 243,970; July 3; Serial No. 242,963; published Apr. 24, 1928.

CLASS 35.

Belting, Leather. Webb Belting Co. 244,045; July 3.
Belting, Round leather. Allen Belting Company. 243,900; July 3; Serial No. 263,062; published Apr. 24, 1928.
Piston rings. John C. Hoof & Company. 243,866; July 3; Serial No. 257,159; published Apr. 24, 1928.
Piston rings. Megson Piston Ring Co. 243,858; July 3; Serial No. 259,287; published Apr. 24, 1928.

CLASS 36.

Banjos, banjo ukeleles, guitars, etc. W. L. Lange. 243,852; July 3; Serial No. 261,367; published Apr. 17, 1928.
Instruments, Band. Buescher Manufacturing Co. 31,953; renewed Sept. 6, 1928.
Picks, Banjo and mandolin. J. W. Nicomede. 243,880; July 3; Serial No. 261,073; published Apr. 17, 1928.
Records, Talking-machine and phonograph. General Phonograph Corporation. 243,826; July 3; Serial No. 157,268; published Apr. 17, 1928.
Violins, violas, cellos, and bass viols. Carl Fischer Inc. 244,037; July 3.

CLASS 37.

Pencils, Lead and colored. E. Faber. 71,436; renewed Nov. 24, 1928.
Pens, Fountain. Mabie, Todd & Co. No. 71,236; renewed Nov. 10, 1928.

CLASS 39.

Gloves, gauntlets, and mittens, Leather. Louis Meyers & Son. 71,306; renewed Nov. 17, 1928.
Hosiery. L. R. Cohn. 244,061; July 3.
Neckties and cravats, Men's and boys'. Baum Bros. & Mayer Neckwear Co. 244,051; July 3.

CLASS 42.

Cotton and silk piece goods, etc. Warren Manufacturing Company. 244,011; July 3; Serial No. 262,137; published Apr. 24, 1928.
Lawn. A. L. Reid & Co. 71,175; renewed Nov. 10, 1928.
Linings. Edgar K. Frank & Co. 243,933; July 3; Serial No. 260,172; published Apr. 3, 1928.
Silk, etc., piece goods. Hart Silk Company. 243,908; July 3; Serial No. 263,212; published Apr. 24, 1928.
Woolen piece goods. American Woolen Company. 243,907; July 3; Serial No. 263,063; published Apr. 24, 1928.

CLASS 44.

Belts, solenoids, and bipolas applicators, Electric or magnetic. Dr. R. Madison. 243,811; July 3; Serial No. 244,875; published Apr. 17, 1928.
Bidets. Fastidious Company. 243,874; July 3; Serial No. 253,322.
Sanitary napkin and belt. M. Malouf. 243,887; July 3; Serial No. 262,104; published Apr. 10, 1928.
Supports, Arch. Scholl Mfg. Co. Inc. 243,827–8 9; July 3; Serial Nos. 260,915–17; published Apr. 17, 1928.
Supports, Arch. Scholl Mfg. Co. Inc. 243,892; July 3; Serial No. 262,333; published Apr. 17, 1928.
Syringes and ointment applicators, Vaginal. H. L. de Bar. 243,891; July 3; Serial No. 262,295; published Apr. 17, 1928.
Waterproof fabric. Alligator Company. 243,814; July 3; Serial No. 244,485; published Apr. 10, 1928.

CLASS 45.

Beverage, Maltless. Charles J. Gruber's Sons. 243,898; July 3; Serial No. 262,656; published Apr. 24, 1928.

CLASS 46.

Alimentary paste. Minnesota Macaroni Co. 243,885; July 3; Serial No. 261,977; published Apr. 17, 1928.
Bakery goods. G. W. Seidel. 244,041; July 3.
Bananas. Compania Frutera Transcontinental, S. A. 243,901; July 3; Serial No. 262,649; published Apr. 24, 1928.
Bananas. Compania Frutera Transcontinental S. A. 243,950; July 3; Serial No. 262,648; published Apr. 24, 1928.
Candies. Spitz, Arnstein & Co. Inc. 243,837; July 3; Serial No. 260,146; published Apr. 17, 1928.
Candies and nuts of all kinds. Henry Helde, Incorporated. 243,976; July 3; Serial No. 225,186; published Mar. 13, 1928.
Candies, fancy cakes, ice cream, etc. A. O. Englund. 243,818; July 3; Serial No. 244,006; published Apr. 17, 1928.
Candy. C. A. Crane. 244,008; July 3; Serial No. 262,209; published Apr. 24, 1928.
Candy. Frederick W. Lipps Co. 243,951; July 3; Serial No. 259,962; published Apr. 24, 1928.
Candy bars. W. D. Rose. 243,938; July 3; Serial No. 260,699; published Apr. 24, 1928.
Canned fish, fruits, vegetables, etc. Hans, Baruch & Company. 243,930; July 3; Serial No. 259,112; published Apr. 24, 1928.
Canned fish, shellfish, beef, etc. Nichiro Gyogyo Kabushiki Kaisha. 243,860; July 3; Serial No. 259,210; published Apr. 17, 1928.
Canned fruits. J. H. Flickinger Company. 71,302; renewed Nov. 17, 1928.
Canned fruits and vegetables. Burton & Davis Co. 70,723; renewed Sept. 29, 1928.
Canned fruits and vegetables. Tugwell & Wiseman, Inc. 243,909; July 3; Serial No. 262,781; published Apr. 24, 1928.
Canned fruits, fish, and vegetables, etc. W. R. Roach & Co. 243,844; July 3; Serial No. 261,685; published Apr. 17, 1928.
Canned fruits, vegetables, and fish, preserved and dried fruits, nuts, etc. Wurm Brothers Company. 243,926; July 3; Serial No. 258,848; published Apr. 24, 1928.
Canned oysters and canned fruit. S. S. Coffin. 243,984; July 3; Serial No. 261,808; published Apr. 24, 1928.
Canned peas. Great Atlantic & Pacific Tea Co. 244,042; July 3.
Canned salmon. R. H. Macy & Co. 243,919; July 3; Serial No. 255,998; published Apr. 24, 1928.
Canned sauerkraut, peas, etc. Klotter & Norton Co. 244,013; July 3; Serial No. 262,090; published Apr. 24, 1928.
Coffee. Jobbers Service Incorporated. 243,949; July 3; Serial No. 262,609; published Apr. 24, 1928.
Coffee. Katsafanas Coffee Company. 243,998; July 3; Serial No. 262,463; published Apr. 24, 1928.
Coffees. C. H. Kroneberger and Company. 243,927–8; July 3; Serial Nos. 258,949–50; published Apr. 24, 1928.
Concentrate for making malted milk, Frozen. A. S. Kedzie. 243,915; July 3; Serial No. 253,242; published Apr. 24, 1928.
Confection, Frozen. M. C. Meagher. 243,810; July 3; Serial No. 246,042; published Apr. 17, 1928.
Dessert powders, cocoa, spices, seasonings, etc. B. Heller & Company. 243,969; July 3; Serial No. 243,490; published Apr. 24, 1928.
Extract powder, Malt. Schreiber Products Corporation. 243,939; July 3; Serial No. 260,853; published Apr. 24, 1928.
Extracts, Concentrated liquid malt. Malt-Diastase Company. 243,995; July 3; Serial No 261,199; published Apr. 24, 1928.
Extracts for foods, Flavoring. Virginia Dare Extract Company. 243,977; July 3; Serial No. 262,005; published Apr. 24, 1928.
Flour, Graham and wheat. Flemington Milling Co. 244,049; July 3.
Food-flavoring preparation. J. L. Philippeau. 243,904; July 3; Serial No. 262,817; published Apr. 24, 1928.
Food product. Maltzyme Company. 244,009; July 3; Serial No. 262,172; published Apr. 24, 1928.
Foods, Certain. Union Condensed Milk Company. 71,080–1; renewed Oct. 27, 1928.
Fruits, canned fish, etc., Fresh. Cron & Dehn, Inc. 244,005; July 3; Serial No. 262,293; published Apr. 24, 1928.
Fruits and fresh grapes, Fresh deciduous. H. C. Buford. 244,057; July 3.
Fruits, Fresh citrus. W. J. Howey Co. 246,988; July 3; Serial No. 261,675; published Apr. 24, 1928.
Gelatine dessert. American Stores Company. 243,886; July 3; Serial No 262,012; published Apr. 17, 1928.

Ice cream. Maryland Creamery Co. 244,040; July 3.
Ice-cream powder. J. F Lyons. 243,821; July 3; Serial No. 243,382; published Apr. 17, 1928.
Marmalade, relishes, jellies, etc. Peggy Horner, Inc. 244,059; July 3.
Mayonnaise. Thousand Island dressing, and relish. Bramhall Food Products Corporation. 243,965; July 3; Serial No. 248,670; published Nov. 29, 1927.
Mayonnaise. Thousand Island dressing, etc. Leader Food Products Co. 243,997; July 3; Serial Nos. 262,519–20; published Apr. 24, 1928.
Milk, Evaporated. Heller & Perrin. 243,948; July 3; Serial No. 262,564; published Apr. 24, 1928.
Noodles, Egg. E. P. Velat. 244,003; July 3; Serial No. 262,337; published Apr. 24, 1928.
Olive oil. L. Samarotto. 243,889; July 3; Serial No. 262,124; published Apr. 17, 1928.
Potato chips. Tiny Taters, Inc. 243,905; July 3; Serial No. 262,943; published Apr. 24, 1928.
Potatoes, Fresh. Lincoln Wilder Co. 244,004; July 3; Serial No. 262,314; published Apr. 24, 1928.
Sauce or flavoring known as soy, Liquid. H. Shoten. 243,967; July 3; Serial No. 247,616; published Apr. 24, 1928.
Sherry compounded with salt, wine jelly, etc., Cooking. Italian Vineyard Co. 243,869; July 3; Serial No. 255,180; published Apr. 17, 1928.
Soy, sauce, vinegar, soy extract, etc. Nodashoyu-Kabushikikaisha. 243,820; July 3; Serial No. 243,823; published Apr. 17, 1928.
Syrup, Malt. B. J. Garfinkel. 243,895; July 3; Serial No. 262,398; published Apr. 17, 1928.
Syrup, Malt. Pilsener Brewing Co. 243,888; July 3; Serial No. 262,118; published Apr. 17, 1928.
Syrup, Malt. Rock Island Brewing Company. 243,853; July 3; Serial No. 261,282; published Apr. 17, 1928.
Syrup, Malt. Universal Food Products Co. 243,824; July 3; Serial No. 239,835; published Apr. 17, 1928.
Syrup, Malt. Val Blatz Brewing Co. 243,897; July 3; Serial No. 262,495; published Apr. 17, 1928.
Syrups and malt extracts, Malt. Gabriel & Jos. Sedlmayr Spaten-Franziskaner-Leistbräu A.-G. München. 243,864; July 3; Serial No. 258,502; published Apr. 17, 1928.
Tea. Berry, Dodge Company. 243,961; July 3; Serial No. 245,827; published Mar. 13, 1928.
Vegetable fat, Compound of. Vejola Company. 243,981; July 3; Serial No. 261,920; published Apr. 24, 1928.

CLASS 47.

Wine, Still. Compagnie du Vin St. Raphael (Societe Anonyme). 243,812; July 3; Serial No. 244,744; published July 12, 1927.

CLASS 49.

Liquors, Alcoholic. American Solvents & Chemical Corporation. 243,815; July 3; Serial No. 244,383; published Apr. 24, 1928.

CLASS 50.

Fabrics, Rubberized textile. Clifton Manufacturing Company. 244,039; July 3.

ALPHABETICAL LIST OF LABELS.

Bismarck. For Malt Syrup. Bismarck Malt Co. 34,228; July 3.
Child's Embroidery Set. For Novelty Consisting of a Scarf, Pillow Top, Pair of Fiber Embroidery Hoops, Embroidery Floss, Thimble, and Needle. V. Snow. 34,256; July 3.
Child's Embroidery Set. For Novelty Consisting of a Quilt, Pair of Embroidery Hoops, Thimble, Needle, and Embroidery Floss. V. Snow. 34,258; July 3.
Clerogias. For Glass and Enamel Polish and Cleaner. F. L. Davis. 34,235; July 3.
Copperweld, Glassport, Pa. For Wire Reels. Copperweld Steel Company. 34,234; July 3.
Expello. For Moth and Moth-Larvæ Killer. Expello Corporation. 34,236; July 3.
Eastside. For a Beverage. Los Angeles Brewing Co. 34,245; July 3.
Everfresh. For Egg Preserver. Rolland Products Company. 34,253; July 3.
Gualasul. For Medicinal Preparation for Relieving Coughs. Physicians & Hospitals Supply Co. 34,249; July 3.
Holsum Bread. For Bread. Texas Bread Company. 34,263; July 3.
Horse Feathers. For Candy Bar. Mrhs. R. L. Heath. 34,239; July 3.
Individual Service Package Wheatsworth Graham Crackers. For Crackers. Wheatsworth, Inc. 34,265; July 3.
Klen-Derma Cleanser. For a Cosmetic. A. C. Chase. 34,231; July 3.
La Rejuvene Astringent. For a Cosmetic. A. C. Chase. 34,230; July 3.
Magic Plastique Liquid Masque. For a Cosmetic. A. C. Chase. 34,229; July 3.
Magikitch'n. For Sifters. E. Reich. 34,251; July 3.
Manihu. For Brooms and Whisk Brooms. American Broom & Brush Co. 34,226; July 3.
Michigan Clover. For Butter. Sutherland Paper Company. 34,260; July 3.
Minute Man's. For Polishing Compound for Automobiles, Furniture, Metal, and Woodwork. G. E. Grossman. 34,238; July 3.
Niagara Fire Stop Cartridge. For Portable Fire Extinguishers. C. H. Arbenz. 34,227; July 3.
Nu-Hair Hair Restorer. For a Cosmetic. A. C. Chase. 34,232; July 3.
Oregon Brand. For Evaporated Unsweetened Milk. Oregon Milk Company. 34,248; July 3.
Paul Jones. For Fresh Oranges. Frances Citrus Association. 34,237; July 3.
Paul Revere. For Fresh Oranges. Orange Mutual Citrus Association. 34,247; July 3.
Playtime Embroidery Box. For Novelty Consisting of a Scarf, Pillow Top, Pair of Fiber Embroidery Hoops, Embroidery Floss, Thimble, and Needle. V. Snow. 34,257; July 3.
Raco. For Electrical Protecting Material. Roach-Appleton Manufacturing Company. 34,252; July 3.
Real Silk Sheer Chiffon Hosiery. For Hosiery. Real Silk Hosiery Mills, Inc. 34,250; July 3.
Red Devil Insect Killer. For Insect Exterminator. H. Sadur. 34,255; July 3.
Sir Galahad. For Lemons. Chula Vista Citrus Association. 34,233; July 3.
Sterling. For Malt Extract. Sterling Products Company. 34,259; July 3.
Sterling Shoes. For Boxes. Hoague-Sprague Corporation. 34,242; July 3.
Superb Potatoes. For Sacked Potatoes. R. C. Zuckerman. 34,267; July 3.
Tasty Nut Shops, Inc. For Nuts. Tasty Nut Shops, Inc. 34,261; July 3.
Tex Whole Wheat Bread. For Bread. Texas Bread Company. 34,262; July 3.
The Bradley Shoe. For Boxes. Hoague-Sprague Corporation. 34,240; July 3.
The Hannah Shoe. For Boxes. Hoague-Sprague Corporation. 34,241; July 3.
Tomorrow's Orders. For Milk. W. Maxstadt. 34,246; July 3.
Twin 6. For Eggs. Roth & Company. 34,254; July 3.
Wheatsworth Graham Crackers. For Crackers. Wheatsworth, Inc. 34,264; July 3.
White Elephant Rice. For Rice. Koh & Sons, Ltd. 34,244; July 3.
Wolock & Bauer. For Shoes. Wolock & Bauer. 34,266; July 3.
Wyne-Pak. For Jellies. C. Hollister. 34,243; July 3.

ALPHABETICAL LIST OF PRINTS.

A Face like a Weary Old Shoe. For Venetian Toilet Preparations. Elizabeth Arden, Inc. 10,955; July 3.
California Sierra Tonic made with Port or Sherry Builds You up. For Wine Tonic. Italian Vineyard Co. 10,971; July 3.
Chesty Jim. For Tires. Federal Rubber Company. 10,966; July 3.
Clean-Cut. Trim and Fit. Tip-Top Looks Twice the Price in any Company. For Watches. New Haven Clock Company. 10,985; July 3.
Colcreme Coty Cleansing—Nourishing—Beautifying. For Face Cream. Coty, Inc. 10,960; July 3.
Collingbourne's Sparkling Tinsel. For Tinsel Gift Cord. Collingbourne Mills, Inc. 10,959; July 3.
Designed for Looks, Made for Service. Tip-Top Graces any Wrist. For Watches. New Haven Clock Company. 10,984; July 3.
Double Compacte Coty. For Powder and Rouge Compact and Lip Stick. Coty, Inc. 10,963; July 3.
Eneu Black. For Printing Inks. Charles Eneu Johnson and Company. 10,978; July 3.
Good (Wingfoot) Year The World's Greatest Tire. For Tires Composed Wholly or in Part of Rubber. Goodyear Tire & Rubber Company Inc. 10,967; July 3.
Guasti Pure California Cooking Wines. For Wine Flavoring and Sauces. Italian Vineyard Co. 10,972; July 3.

Guasti Tonic. For Wine Tonic. Italian Vineyard Co. 10,973; July 3.
How Exquisitely Beautiful are the Bracelet Watches of Today. For Jewelry. Black, Starr & Frost. 10,956; July 3.
In Entertaining as in Opera Singing. For Heinz "57" Varieties. H. J. Heinz Company. 10,969; July 3.
King Coal. For Coal. King Coal and Supply Company. 10,980; July 3.
Le Talc Coty. For Talcum Powders. Coty, Inc. 10,964; July 3.
Les Poudres Coty. For Face Powder. Coty, Inc. 10,962; July 3.
Les Poudres Coty to be Freshly Lovely Throughout Summer Days. For Powders. Coty, Inc. 10,961; July 3.
Photo Brown. For Printing Inks. Charles Eneu Johnson and Company. 10,977; July 3.
R. B. C. For Concentrated Pure and Imitation Fruit-Flavored Drinks. Red Bird Chilli Company. 10,987; July 3.
Temperature Chart. For Gas Ranges. American Stove Company. 10,954; July 3.
The Fit that's World-Famous. For Athletic Underwear. B. V. D. Company. 10,958; July 3.
The Ounce of Protection. For Sanitary Belts, Sanitary Aprons, Step-ins, and Bloomers. A. Stein & Company. 10,988; July 3.
The Rainbow. For Printing Inks. Charles Eneu Johnson and Company. 10,979; July 3.
The Roller. For Printing Inks. Charles Eneu Johnson and Company. 10,974; July 3.
The Target. For Printing Inks. Charles Eneu Johnson and Company. 10,975; July 3.
The Tempest of Colors. For Printing Inks. Charles Eneu Johnson and Company. 10,976; July 3.
Tip-Top—The Finest Wrist-Watch $3.50 Ever Bought. For Watches. New Haven Clock Company. 10,986; July 3.
Too Big for the Nursery—not Big Enough for School. For Wheat Breakfast Food. Cream of Wheat Co. 10,965; July 3.
Try to Match Tip-Top's Features at Anywhere Near its Price. For Watches. New Haven Clock Company. 10,983; July 3.
Until You See Tip-Top You Will Never Know How Fine a Wrist-Watch $3.50 Can Buy. For Watches. New Haven Clock Company. 10,982; July 3.
Use Thunderbolt Tire Patch. For Tire Patches. F. J. Hagerling. 10,968; July 3.
White Rose Wedding Ring. For Wedding Rings. Joseph L. Herzog & Co. 10,970; July 3.
Why the Knowing Millions Say. For Athletic Underwear. B. V. D. Company. 10,957; July 3.
Your Skin Needs a Professional Treatment Once a Week. For Marinello Products. Marinello Company. 10,981; July 3.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 3D DAY OF JULY, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A C Spark Plug Company. (See Champion, Albert, assignor.)
A C Spark Plug Company. (See Gustafson, Edwin A., assignor.)
A C Spark Plug Company. (See Tittensor, Harry, assignor.)
A C Spark Plug Company. (See Zubaty, Joseph, assignor.)
Abbott, Frank E. (See Hawkins, Roe C., assignor.)
Abrahams, Max, New York, N. Y. Acoustic horn. 1,675,318; July 3.
Accurate Gasoline Recording Company. (See Mason, A. R., and Falling, assignors.)
Ackerly, Donald G., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,675,587; July 3.
Agfa Ansco Corporation. (See Bornmann, Carl A., assignor.)
Agfa Ansco Corporation. (See Lowkrantz, Gunne, assignor.)
Aktiebolaget Stille-Werner. (See Nordin, Josef A., assignor.)
Albany Perforated Wrapping Paper Company. (See Fairchild, William, assignor.)
Aldrich, Lester K., Sidney, Ohio. Holddown and register for automatic feeders. 1,675,525; July 3.
Alferink, William, assignor of one-third to J. H. Weaver and one-third to C. L. Weaver, Cleveland, Ohio. Combined holder and automatic circuit breaker for electric soldering irons. 1,675,401; July 3.
Alkan, Robert, and G. Lesourd, Paris, France. Regulating apparatus for operating from a distance devices for releasing projectiles from aircraft. 1,675,835; July 3.
Allen, Howard G., assignor to Morrison Stitcher Corporation, Niagara Falls, N. Y. Clincher for wire-stapling machines. 1,675,779; July 3.
Allen, John M., Mart, Tex. Folding crate. 1,675,319; July 3.
Allen, Samuel G., trustee. (See Tolman, B. C., De Baufre, Davis, and Roberts, assignors.)
Allsett, Emil, Konigsberg, Germany. Piston valve. 1,675,320; July 3.
Alric, Emile A. M., Portes, near La Vernarede, France. Preventing overheating of bearings. 1,675,780; July 3.
Ambrose, Sewell P., Vancouver, British Columbia, Canada. Amusement device. 1,675,684; July 3.
Ambruster, Cornelius, Roslyn, Pa. Secondary or storage battery. 1,675,321; July 3.
American Chain Company. (See McDonald, Oliver R., assignor.)
American Foundry Equipment Company, The. (See Minich, Verne E., assignor.)
American Hardware Corporation, The. (See Teich, Ernest L., assignor.)
American Home Economics Association. (See Chamberlain, Mildred, assignor.)
American Lighter Corporation. (See Neviére, Louis A., assignor.)
American Machine & Foundry Company. (See Bronander, Wilhelm B., assignor.)
American Machine & Foundry Company. (See Gwinn, George W., assignor.)
American Machine & Foundry Company. (See Stein, John A., assignor.)
American Manganese Steel Company. (See Rorabeck, Claude, assignor.)
American Metal Cap Company. (See Hammer, Charles, assignor.)
American Moistening Company. (See Armstrong, Joseph, assignor.)
American Sheet and Tin Plate Company. (See Loyd, W. C., and McArthur, assignors.)
American Sheet and Tin Plate Company. (See Pisarcik, Andro, assignor.)
American Steel and Wire Company of New Jersey, The. (See Dahlstrom, F. P., and Larson, assignors.)
American Telephone and Telegraph Company. (See Holden, William H. C., assignor.)
American Telephone and Telegraph Company. (See Nyquist, Harry, assignor.)
American Telephone and Telegraph Company. (See Ohl, Russell S., assignor.)
American Telephone and Telegraph Company. (See Schnee, Henry E., assignor.)
American Telephone and Telegraph Company. (See Wright, Sumner B., assignor.)
American Tool Works, The. (See Ratliff, Stanley M., assignor.)
American Tubular Elevator Company. (See Schiller, M. B., and Haller, assignors.)
American Type Foundera Company. (See Hall, Walter O., assignor.)
American Type Founders Company. (See Morrison, Lewis E., assignor.)
American Window Company. (See Lewis, Claude A., assignor.)
Amishasel, Frank, et al. (See Kreft, Ewald, assignor.)
signor.)
Andale Engineering Company. (See McNeal, Daniel R., assignor.)
Anderson, Carl H., Stratford, assignor to The Bryant Electric Company, Bridgeport, Conn. Circuit breaker. 1,675,322; July 3.
Anderson, Carl O., Mitchell, S. Dak. Valve-adjusting tool. 1,675,781; July 3.
Andrade, Julius, East Cleveland, assignor to Chandler Motor Car Company, Cleveland, Ohio. Rumble seat for automobile bodies. 1,675,685; July 3.
Andres, William J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. Re17,015; July 3.
Andrews, Albert, Spearfish, S. Dak. Engine construction. 1,675,629; July 3.
Andrews, Dudley, et al. (See Watkins, Irah J., assignor.)
Armstrong Bros. Tool Co. (See Armstrong, Paul, assignor.)
Armstrong, Edwin H., Yonkers, N. Y., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Wave signaling system. 1,675,323; July 3.
Armstrong, Joseph, Allston, assignor to American Moistening Company, Boston, Mass. Humidifier. 1,675,782; July 3.
Armstrong, Paul, assignor to Armstrong Bros. Tool Co., Chicago, Ill. Pipe wrench. 1,676,210; July 3.
Arnout, James L., et al. (See Watkins, Irah J., assignor.)
Aron, William P. (See Gahagan, H. I., and Aron.)
Aron, William P., Dallas, Tex., assignor, by mesne assignments, to The Whisk Razor Corporation, Buffalo, N. Y. Blade. 1,676,001; July 3.
Ash, Charles S., Detroit, Mich. Disk wheel. 1,675,630; July 3.
Ashmun, Harry S. (See Titcomb, L. R., and Ashmun.)
Atkinson, James S., London, England, assignor, by mesne assignments, to Open Hearth Combustion Company, Chicago, Ill. Reversible regenerative furnace. 1,675,588; July 3.
Atkinson, Ralph W., and G. J. Shurts, Perth Amboy, N. J., assignors, by mesne assignments, to General Cable Corporation. High-tension cable. 1,675,918; July 3.
Augenstein, Carl, Cranston, assignor to Automatic Gold Chain Company, Edgewood, R. I. Bracelet hook. 1,675,324; July 3.
Austin, Frederick W., Oldham, England. Loom for weaving tufted pile fabrics and apparatus for use therewith. 1,675,836; July 3.
Automatic Electric Inc. (See Gillings, Charles, assignor.)
Automatic Electric Inc. (See Lomax, Clarence E., assignor.)
Automatic Gold Chain Company. (See Augenstein, Carl, assignor.)
B. O. T. Mfg. Co. (See Tilden, Bert O., assignor.)
Babcock, Garrison, Everett, Wash. Meter-operating means. 1,675,919; July 3.
Babineau, Oliver D., Minneapolis, Minn. Insulator. 1,675,589; July 3.
Backlund, Nils O., Stockholm, Sweden, assignor to Bergedorfer Eisenwerk Aktiengesellschaft, Sande, near Bergedorf-Hamburg, Germany. Separating from fluid hydrocarbons other hydrocarbons which precipitate at low temperature. 1,676,069; July 3.
Baily, Thaddeus F., Alliance, Ohio. Shaft-type electric furnace. 1,675,744; July 3.
Baldsiefen, Walter D., Parlin, N. J., and T. H. Rogers, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Oil composition and process of retardment developing of rancidity therein. 1,675,631; July 3.
Ballauf, Fritz, F. Muth, and A. Schmelzer, Elberfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Dyestuff intermediates. 1,675,478; July 3.

Bancroft, Frank E., Longsight, Manchester, assignor to Ripaults, Limited, London, England. Variable-capacity electric condenser. 1,676,002; July 3.

Barber Asphalt Company, The. (See Barnes, Eugene L., assignor.)

Bargen, William J., Missoula, Mont. Article of furniture. 1,676,174; July 3.

Barnes, Eugene L., Buffalo, N. Y., assignor to The Barber Asphalt Company, Philadelphia, Pa. Compressor. 1,675,686; July 3.

Barrett, Arthur M., Chicago, Ill. Binder post. 1,675,479; July 3.

Barrett Company, The. (See Weisberg, Louis, assignor.)

Barton, James L., Summer Shade, Ky. Cheese cutter. 1,675,745; July 3.

Bassett, Harry P., Cynthiana, Ky. Manufacture of artificial silk. 1,676,003; July 3.

Bassick Manufacturing Company, The. (See Davis, Ernest W., assignor.)

Bassick Manufacturing Company, The. (See Fesler, Douglas F., assignor.)

Bassick Manufacturing Company, The. (See Pierce, Earl F., assignor.)

Bates, Adelmer M., assignor, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill. Wire-tie-twisting apparatus. 1,675,746; July 3.

Bates, C. J., & Son. (See Bates, Hamilton C., assignor.)

Bates, Hamilton C., assignor to C. J. Bates & Son, Chester, Conn. Manicure implement. Des. 75,672; July 3.

Bates Valve Bag Corporation. (See Bates, Adelmer M., assignor.)

Bath, William H., Torrance, Calif. Saw. 1,675,480; July 3.

Bauer, Martin, Berlin, Germany. Handpiece for toothboring machines. 1,675,873; July 3.

Baumann, Harold C., West Long Branch, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Amplifying electrical variations. 1,675,874; July 3.

Bayer, Gaudenz, Augsburg, Germany. Refrigerating apparatus. 1,676,068. July 3.

Bayerische Celluloidwarenfabrik, vorm. Albert Wakker, A.-G. (See Weidinger, C., Gradl, and Schönner, assignors.)

Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stop mechanism. 1,675,590; July 3.

Beach, H. D., Company, The. (See Gibson, Francis W., assignor.)

Beacon Steel Furniture Co. (See Rosenthal, A. E., and Clarin, assignors.)

Beal, Charles L., San Francisco, Calif. Photograph-enlarging light box. 1,675,783; July 3.

Beam, Charles C., assignor to The Potomac Glass Company, Cumberland, Md. Goblet or similar article. Des. 75,673; July 3.

Beam, Charles C., assignor to The Potomac Glass Company, Cumberland, Md. Goblet or similar article. Des. 75,674; July 3.

Beaney Rubber Company Inc. (See Beaney, Thomas A., assignor.)

Beaney, Thomas A., Poughkeepsie, assignor to Beaney Rubber Company Inc., New York, N. Y. Machine for cutting off and skiving stock. 1,675,875; July 3.

Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,675,687; July 3.

Beckmann, Johannes, Altona-Ottensen, Germany. Explosionproof fitting for electric glow lamps. 1,675,837; July 3.

Bell, Daniel, assignor to Invincible Laundry Equipment Co., Chicago, Ill. Cylinder door latch. 1,675,591; July 3.

Bell, Earl R., assignor of one-fourth to A. L. Evans and one-fourth to R. A. Lenox, Covington, Ky. Concrete-spreader mold. 1,675,443; July 3.

Bell & Howell Company. (See Howell, Albert S., assignor.)

Bell, John E. (See Isom, E. W., and Bell.)

Bell Telephone Laboratories, Incorporated. (See Baumann, Harold C., assignor.)

Bell Telephone Laboratories, Incorporated. (See Curtis, Austen M., assignor.)

Bell Telephone Laboratories, Incorporated. (See Hague, Alfred E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Porter, Leslie F., assignor.)

Bellman, Richard J., Winfield, Kans. Egg-candling device. 1,675,632; July 3.

Bemis Bro. Bag Co. (See Young, Raymond L., assignor.)

Bendix Brake Company. (See Andres, William J., assignor.)

Bendix Brake Company. (See Bendix, Vincent, assignor.)

Bendix Brake Company. (See Dodge, Adiel Y., assignor.)

Bendix, Vincent, assignor to Bendix Brake Company, Chicago, Ill. Brake mechanism. 1,675,526; July 3.

Benedict, Herschel A., East Orange, and E. M. Moller, South Orange, N. J. Fastening means. 1,675,688; July 3.

Bennett, Claude C., Seattle, Wash., assignor to A. E. Feragen, Inc., Seattle, Wash. Motor-vehicle wheel gauge. 1,675,481; July 3.

Bennett, James C., assignor of forty per cent to W. H. Fraser, New York, N. Y., five per cent to G. O'Neill, East Orange, and five per cent to A. A. de Bonneville, Bayonne, N. J. Combined propeller and rotor. 1,675,527; July 3.

Benz, Johannes, Dusseldorf, Germany. Centering device for use in machining crank shafts, eccentrics, or the like. 1,676,175; July 3.

Bergedorfer Eisenwerk Aktiengesellschaft. (See Backlund, Nils O., assignor.)

Berger Manufacturing Company, The. (See Schlafly, Julius H., assignor.)

Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Hand tool. 1,675,838; July 3.

Bernier, Henri, Levallois-Perret, France. Tip wagon. 1,676,127; July 3.

Besse, Carl H., et al. (See Bowers, Arlan L., assignor.)

Bethlehem Steel Company. (See McCarty, Richard J., jr., assignor.)

Biggert, Florence C., jr., Crafton, assignor to United Engineering and Foundry Company, Pittsburgh, Pa. Strip mill. 1,676,176; July 3.

Biggs, Charles P., assignor to W. H. Crawford, Mound City, Mo. Electrically-heated dispensing pump. 1,675,689; July 3.

Binz, Arthur, and C. Räth, Berlin, Germany. Preparing nitropyridine arsinic acids. 1,675,402; July 3.

Bird Machine Company. (See Laird, Isaac L., assignor.)

Bishop, Mabel M., Milwaukee, Wis. Instructional musical-harmony card game. 1,675,528; July 3.

Black, Harold S., Newark, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Translating circuits. 1,675,876; July 3.

Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Gripper mechanism. 1,675,592; July 3.

Blake, Preston L., Amarillo, Tex. Typewriter copy-holder and line marker. 1,675,784; July 3.

Blanchard, Benjamin F., Fullerton, Calif. Hydraulic underreamer. 1,675,325; July 3.

Blanding, Forrest H., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Hammer drill. 1,675,326; July 3.

Blando, Frank, New York, N. Y. Press. 1,675,444; July 3.

Blando, Frank, New York, N. Y. Press. 1,675,445; July 3.

Bleitner, Eduard. (See Hartmann, O. H., and Bleitner.)

Bloom, David, Berkeley, Calif. Jar closure. 1,675,920; July 3.

Bloom, Julius, West Bronx, N. Y. Wave setter for hair-dressing purposes. 1,675,839; July 3.

Bluemel, Gustave, assignor of one-half to Drying Systems, Inc., Chicago, Ill. Furnace for producing and diluting products of combustion. 1,676,070; July 3.

Boca, Joseph, Flint, assignor to General Motors Corporation, Detroit, Mich. Door. 1,675,633; July 3.

Bock, Alfred C. O. (See Glass, C. F., Bock, and Milligan.)

Boe, Endre A., Watford City, N. Dak. Cutter guard and ledger plate. 1,675,634; July 3.

Bohner, Clyde C., East Orange, assignor to Tung-Sol Lamp Works, Newark, N. J. Projector lamp for motor vehicles. 1,675,690; July 3.

Bohnsack, John A., Cleveland Heights, assignor to The E. F. Hauserman Company, Cleveland, Ohio. Floor shim. 1,675,593; July 3.

Bolinder, Eric A., Stockholm, Sweden. Sawing tool and plane iron. 1,676,071; July 3.

Bordwell, Lavern, New York, N. Y. Beater. 1,676,128; July 3.

Borland, Bruce, Chicago, Ill. Seal. 1,675,327; July 3.

Borland, Bruce, Chicago, Ill. Seal. 1,675,328; July 3.

Bornmann, Carl A., assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Catch for camera fronts. 1,675,529; July 3.

Bouchery, August, Brooklyn, assignor of one-half to J. O. Seifert, Auburndale, Flushing, N. Y. Lock. 1,675,594; July 3.

Boudios, Edmond E., Paris, assignor to Les Fils de Emile Boudios, Romilly, s/Seine, Aube, France. Knitting machine for the manufacture of corsets and belts. 1,675,691; July 3.

Bouin, Charles, Boston, Mass. Lamp house. 1,675,595; July 3.

Bowers, Arlan L., Bristow, assignor to F. M. Mahan, Pawhuska, E. McCarty, Wynona, and C. H. Besse, Burfan, Okla. Oil-well derrick. 1,675,635; July 3.

Bowers, W. W. (See Condit, George M., assignor.)

Bowler, William E., Niagara Falls, N. Y., assignor to The Spirella Company, Meadville, Pa. Machine for severing wire fabric. 1,675,747; July 3.

Boye, James H., Chicago, Ill. Curtain and portière rod. Des. 75,675; July 3.

Boyet, John F., Covington, Ky., assignor of one-half to W. W. Burns, Washington, D. C. Toy. 1,675,482; July 3.

Boynton, Vern K., Beaumont, Tex., assignor to Perry & Webster, Inc., New York, N. Y. Apparatus for fume control. 1,675,403; July 3.

Brack, Julius L., Twining, Mich. Cultivator. 1,675,636; July 3.

Bradbury, Clifford C., Glencoe, Ill. Variable-pitch gear. 1,675,596; July 3.

Bradley Washfountain Company. (See Heine, Herman E., assignor.)

Brandon, Delia, Oak Park, Ill. Skin preparation. 1,675,840; July 3.

Braselton, Chester H. (See MacLaren, Fred B., assignor.)

Brayton, Harold M., Dover, N. J. Powder time fuse. 1,675,530; July 3.

Brewster, Harry C., Shreveport, La. Drilling machine. 1,676,129; July 3.

Bricker, Orrin W., Cleveland, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Rail-bond straightener. 1,675,785; July 3.

Briggs, William P., New Bedford, Mass. Adapter for plug and cut-outs. 1,675,637; July 3.

Brinkerhoff, Frederic H., Belleville, N. J. Pilot-light-controlled gas valve. 1,675,638; July 3.

Bristol, Carlton W. (See Kuntney, G. W., and Bristol.)

Bristol Company, The. (See Kuntney, G. W., and Bristol, assignors.)

Britnell, Charles A., Marrickville, near Sydney, New South Wales, Australia. Cleaning the cock connections between mains and service or branch pipes. 1,675,968; July 3.

Brockway, Don M., Los Angeles, Calif. Delivery apparatus. 1,676,072; July 3.

Broido, Benjamin N., assignor to The Superheater Company, New York, N. Y. Apparatus for joining pipes. 1,675,329; July 3.

Bronander, Wilhelm B., Montclair, N. J., assignor to American Machine & Foundry Company. Machine for labeling circular articles. 1,675,692; July 3.

Bronson, Adelbert E., assignor to The Dill Manufacturing Company, Cleveland, Ohio. Rim nut. 1,675,597; July 3.

Brooks, William J., Letchworth, England. Calendar. 1,675,483; July 3.

Brower, Charles E., and C. N. Hines, Yuma, Colo. Seeding machine. 1,676,130; July 3.

Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Picker mechanism for looms. 1,676,214; July 3.

Brown, Henry B., assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer. 1,675,531; July 3.

Brown, Marion, and J. Green, National Home, Wis. Safety gate for railway crossings. 1,675,447; July 3.

Brown, Newton N., assignor to Gold Medal Camp Furniture Company, Racine, Wis. Collapsible bar. 1,676,073; July 3.

Brown, Newton N., assignor to Gold Medal Camp Furniture Co., Racine, Wis. Chair. 1,676,074; July 3.

Bruijnes, Johannes. (See Holst, G., Oosterhnis, and Bruijnes.)

Bryant Electric Company, The. (See Anderson, Carl E., assignor.)

Bryce, James W., Bloomfield, N. J., assignor to International Time Recording Company of New York, Endicott, N. Y. Alarm device for clocks in signaling systems. 1,676,075; July 3.

Buchanan, Monty J., Seattle, Wash. Wall-board-joint filler strip. 1,676,076; July 3.

Buchanan, Stephen N., New York, N. Y., assignor to The Thomas & Betts Co., Elizabeth, N. J. Mounting electrical fittings. 1,675,921; July 3.

Buchholz, Frank. (See Buchholz, William C. and F.)

Buchholz, William C. and F., Brooklyn, N. Y. Illuminated dial. Re17,017; July 3.

Buchner, Max, Hanover-Kleefeld, Germany, assignor to A. F. Meyerhofer, Zurich, Switzerland. Production of carbonates. 1,675,786; July 3.

Buck, Henry L., et al. (See Mason, Charles T., assignor.)

Buckeye Steel Castings Company, The. (See Johnson, George T., assignor.)

Buffalo Hammer Mill Corporation. (See Mursch, John, assignor.)

Bull, Fredrik R., deceased, by Hilditch and U. Strom, Oslo, Norway, executors. Automatic printing machine. 1,675,969; July 3.

Bullington, Frank A., Kansas City, Mo. Internal-combustion engine. 1,676,212; July 3.

Bullington, Frank A., assignor to Bullington Motors, Kansas City, Mo. Transmission for rotary engines. 1,676,211; July 3.

Bullington Motors. (See Bullington, Frank A., assignor.)

Bulova, Adolph, assignor to Bulova Watch Company, Inc., New York, N. Y. Wrist-watch bracelet. 1,676,213; July 3.

Bulova Watch Company. (See Bulova, Adolph, assignor.)

Bultman, Charles E., decreased; I. M. Bultman, executrix, assignor to E. D. MacDougall, Chicago, Ill. Insulated vessel. 1,676,004; July 3.

Bultman, Ida M., executrix. (See Bultman, Charles E.)

Bunker, Arthur C., Montclair, assignor to Crocker-Wheeler Electric Manufacturing Company, Ampere, N. J. Motor-starting switch. 1,676,077; July 3.

Bunker, Frank S., Long Beach, Calif., assignor to J. W. Hughes, Compton, Calif. Pipe tongs. 1,675,748; July 3.

Burdt, Hugo C., Chicago, Ill. Light. 1,675,877; July 3.

Burke, Robert F., Phoenixville, Pa., assignor to Heine Boiler Company, St. Louis, Mo. Truck-body construction. 1,675,317; July 3.

Burns, Walter W. (See Boyet, John F., assignor.)

Burress, John R., Arlington, Tex., assignor to W. A. Cenee and W. A. Davis, Tulsa, Okla. Automatic railway gate. 1,676,227; July 3.

Burrowes, E. T., Company, The. (See King, William J., assignor.)

Burt, Isaac E., Minneapolis, Minn. Necktie rack. 1,675,922; July 3.

Burt machine Company. (See Wild, Charles H., assignor.)

Burton, Ralph J. (See Powell, Clarence H., assignor.)

Butler, W. N., et al., trustees. (See Mathews, Theodore A., assignor.)

Byrd, Hugh L., Stockport, assignor to Drey, Simpson & Company, Limited, South Reddish, near Stockport, England. Tensioning yarns or the like in looms, winding, doubling, and other textile machines. 1,675,330; July 3.

Cabrera, Charles T., Philadelphia, Pa., assignor of one-fourth to B. J. Macdonald, New York, N. Y., and one-tenth to W. W. Williamson, Philadelphia, Pa. Induction exhauster. 1,676,078; July 3.

Calkins & Holden. (See Clarke, James A., assignor.)

Calvo, José, New York, N. Y. Flying toy. 1,675,970; July 3.

Cameron Appliance Company. (See Dissel, Theodore A., assignor.)

Cameron, Robert F. (See Holcomb, Jarrett C., assignor.)

Campos, Adolfo, Philadelphia, Pa. Picture hanger. 1,676,131; July 3.

Camyre, Joseph J., Springfield, Mass. Combination floor lamp and ash tray. Des. 75,676; July 3.

Carlisle, Paul J. (See Magill, P. L., and Carlisle.)

Carr Fastener Company. (See Carr, Fred S., assignor.)

Carr Fastener Company. (See Walters, Rollo F., assignor.)

Carr, Fred S., Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,675,787; July 3.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,675,788; July 3.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,675,789; July 3.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,675,790; July 3.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,675,791; July 3.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,675,792; July 3.

Carson, Ira, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Inking mechanism for printing presses. 1,675,448; July 3.

Cavazos, Isidore, Kingsville, Tex. Rotary motor. 1,675,693; July 3.

Cease, W. A., et al. (See Burress, John R., assignor.)

Central Alloy Steel Corporation. (See Fitz Gerald, Joseph G., assignor.)

Central National Bank of Cleveland. (See McKee, Willis, assignor.)

Cessna, Charles L., Fort Dodge, Iowa. Rat trap. 1,675,532; July 3.

Chain Belt Company. (See Shafer, Samuel, jr., assignor.)

Chamberlain, Mildred, Chicago, Ill., assignor to American Home Economics Association. Badge or similar article. Des. 75,677; July 3.

Champion, Albert, assignor to A C Spark Plug Company, Flint, Mich. Instrument panel. 1,675,639; July 3.

Chandler Motor Car Company. (See Andrade, Julius, assignor.)

Chapman, William H., Montclair, N. J., assignor to General Motors Corporation, Detroit, Mich. Work holder. 1,675,449; July 3.

Charlier, Camille, and A. Errera, Brussels, Belgium. Cooking pot. 1,675,640; July 3.

Chesterton, Arthur W., Brookline, Mass. Packing. 1,675,923; July 3.

Chetteville, Rudolph, New York, N. Y. Camera focusing attachment. 1,675,598; July 3.

Chicago North Shore & Milwaukee Railroad Company. (See Otis, Harold A., assignor.)

Chicago Pneumatic Tool Company. (See Blanding, Forrest H., assignor.)

Chicago Telephone Supply Company. (See Frost, Herbert H., assignor.)

Christensen, Norman V., assignor to Union Special Machine Company, Chicago, Ill. Filled-bag-sewing machine. 1,675,450; July 3.

Christman, Matthias, Springfield, Mo. Journal box. 1,675,641; July 3.

Class, August, Harsewinkel, Germany. Knotter for binding mowers and straw binders. 1,676,177; July 3.

Clarin, Werner E. (See Rosenthal, A. E., and Clarin.)

Clark, John J. (See Witherell, Eugene R., assignor.)

Clarke, James A., Yonkers, assignor to Calkins & Holden, New York, N. Y. Powder box. 1,676,132; July 3.

Claybourn, Leslie W., Milwaukee, Wis. Mixing machine. 1,675,694; July 3.

Claybourn, Leslie W., Milwaukee, Wis. Conditioning printing ink. 1,675,695; July 3.

Clayton, Andrew B., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Presser mechanism for sewing machines. 1,675,696; July 3.

Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radio metering system. Re17,023; July 3.

Cleveland Graphite Bronze Company, The. (See Johnson, Carl W., assignor.)

Clewell, John H., Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of decorative plastic. 1,675,642; July 3.
Cody, James M., Seattle, Wash. Burglar alarm. 1,675,878; July 3.
Coe, John E., Jamestown, N. Y. Tool box. 1,675,484; July 3.
Cohn, Aaron, Philadelphia, Pa. Damper. 1,675,404; July 3.
Cohoon, Luther E., La Grange, Ill. Toilet construction. 1,675,841; July 3.
Coleman, Harris C., Fort Worth, assignor, by mesne assignments, to Tray Service Company, Dallas, Tex. Detachable supporting stand. 1,675,794; July 3.
Colladay, Edward F. (See Clement, Edward E., assignor.)
Collins, Richard P., Norwood, Pa. Attaching flue pipes in chimneys. 1,676,133. July 3.
Commonwealth Steel Company. (See Westlake, Charles T., assignor.)
Condit, George M., Waterville, assignor of one-half to W. W. Bowers, Waterbury, Conn. Switch socket. 1,676,079; July 3.
Conroy, John F., sr. (See O'Connor, William H., assignor.)
Constantine, Arthur R. (See Harley, W. S., and Constantine.)
Conti, Eugene, Cliffside Park, N. J., assignor to A. Herz, New Rochelle, N. Y. Gumming machine. 1,676,005; July 3.
Coover, Harry S. (See Walsh, T., and Coover.)
Cope, Frank T., assignor to The Electric Furnace Company, Salem, Ohio. Discharging and quenching mechanism for furnaces. 1,675,795; July 3.
Copeman, Lloyd G., Flint, Mich. Sharp-freezing container for mechanical refrigerators. 1,675,599; July 3.
Cornwell, Virgil O., assignor to The Federal Glass Company, Columbus, Ohio. Apparatus for forming glassware. 1,675,971; July 3.
Cory, Chas., & Son, Incorporated. (See Oneal, Lloyd E., assignor.)
Coughlan, Robert E., Chicago, Ill. Apparatus for treating boilers and boiler feed. 1,676,134; July 3.
Coulston, Earl V., Cleveland, Ohio. Combined electrical stove and toaster. 1,675,924; July 3.
Cox, Walter C., Denver, Colo. Coursing track. 1,675,972; July 3.
Craig, Ellsworth. (See Pfeifer, Ferdinand A., assignor.)
Crandall, Irving B., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. System for producing and transmitting high-frequency sound energy. 1,675,879; July 3.
Crawford, Preston M., Pittsburgh, Pa. Form for concrete. 1,675,749; July 3.
Crawford, William H. (See Biggs, Charles P., assignor.)
Crocker-Wheeler Electric Manufacturing Company. (See Bunker, Arthur C., assignor.)
Crook, Louis H., Washington, D. C., assignor of one-half to H. Jakobsson, Takoma Park, Md. Antioscillating and stress-reducing device for cables. 1,676,006; July 3.
Csanyi, Henry, New York, N. Y. Battery cell. 1,676,007; July 3.
Csanyi, Henry, assignor to L. Klopman and W. W. Huselton, deceased, New York, N. Y.; S. Lebson, executor, assignor to Dry Storage Battery Corporation, Philadelphia, Pa. Battery cell. 1,675,973; July 3.
Cumfer, Harry A., assignor to "Guyton & Cumfer Mfg. Co.," Chicago, Ill. Shingle-making machine. 1,675,533; July 3.
Curtis, Austen M., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric-current transmission. 1,675,880; July 3.
Cuyler, Frederick A., Rochester, assignor to O. W. Cuyler, Model City, N. Y. Can opener. 1,676,135; July 3.
Cuyler, Otto W. (See Cuyler, Frederick A., assignor.)
Dahl, George B., Brooklyn, N. Y. Oil burner. 1,675,842; July 3.
Dahl, George B., Brooklyn, N. Y. Oil burner. 1,675,843; July 3.
Dahlstrom, Frank P., and C. L. Larson, Worcester, Mass., assignors to The American Steel and Wire Company of New Jersey. Rail bond. 1,675,750; July 3.
Davidson, Alexander R., Edmonton, Alberta, Canada. Phonograph-record-rotating mechanism. 1,675,697; July 3.
Davis, Charles A., Seattle, Wash. Pressure siphon. 1,675,534; July 3.
Davis, Ernest W., Oak Park, assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricant compressor. 1,675,451; July 3.
Davis, Henry A., Jeffersonville, Ind. Liquid-fuel burner. 1,676,080; July 3.
Davis, James L., Adrian, Mo. Brake attachment for motor vehicles. 1,676,136; July 3.
Davis, John W. (See Tolman, R. C., De Baufre, Davis, and Roberts.)
Davis, W. A., et al. (See Burress, John R., assignor.)
Day, Charles, Fort Smith, Ark. Timer brush. 1,675,925; July 3.
Day, William H., East Haven, Conn., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Index or file. 1,675,331; July 3.
Dayton Scale Company. (See Rogers, Joseph E., assignor.)
Dean, Reginald S., La Grange, Ill., and W. E. Hudson, Los Angeles, Calif., assignors to Western Electric Company, Incorporated, New York, N. Y. Storage-battery grid. 1,675,643; July 3.
Dean, Reginald S., La Grange, Ill., and W. E. Hudson, Los Angeles, Calif., assignors to Western Electric Company, Incorporated, New York, N. Y. Age-hardening process. 1,675,644; July 3.
De Baufre, William L. (See Tolman, R. C., De Baufre, Davis, and Roberts.)
De Bellescize, Henri J. J. M., de R., Toulon, France. Direction finder. 1,675,332; July 3.
De Bonneville, Arthur A., et al. (See Bennett, James C., assignor.)
De Camp, Ray E., Glendale, Calif., assignor to Westinghouse Electric & Manufacturing Company. Control mechanism. 1,675,333; July 3.
Deere & Company. (See Paul, William L., assignor.)
Deere & Company. (See Strandlund, Carl G., assignor.)
De Haven, Avery S. (See Fremon, J. A., and De Haven.)
Del Castillo, Guillermo D., Habana, Cuba. Safety razor. 1,675,793; July 3.
De Mazuroff, George, New York, N. Y. Mail box. 1,676,008; July 3.
Dempster Mill Manufacturing Company. (See Schlachter, Henry, assignor.)
Denney, Lawrence A., Chicago, Ill. Apparatus for forming rope mats. 1,675,881; July 3.
Dennis, William J., Chicago, Ill. Weather stripping. 1,675,844; July 3.
Denyes, Harry M., Saginaw, assignor to General Motors Corporation, Detroit, Mich. Steering gear. 1,675,645; July 3.
Deppé, William P. (See Strong, William E. S., assignor.)
Detlefsen, Peter, North Bend, Nebr. Trimming tool. 1,675,535; July 3.
Deutsche Werke Kiel Aktiengeselischaft. (See Kade, Friedrich, assignor.)
Dexter Folder Company. (See Rader, Earl D., assignor.)
Diamond Match Company, The. (See Carson, Ira, assignor.)
Diamond Match Company, The. (See Donnelly, Joseph C., assignor.)
Diamond Match Company, The. (See Wright, Charles F., assignor.)
Dienner, John A., assignor to Stromberg Motor Devices Co., Chicago, Ill. Liquid-level indicator. 1,675,698; July 3.
Dill Manufacturing Company, The. (See Bronson, Adelbert E., assignor.)
Dills, Henry W. (See Faucher, E. W., and Dills.)
Dissel, Theodore A., Winchester, assignor to Cameron Appliance Company, Everett, Mass. Treating articles being galvanized. 1,675,926; July 3.
Doble, Abner, assignor to Doble-Detroit Steam Motors Co., Detroit, Mich. Steam-generator regulation. 1,675,600; July 3.
Doble-Detroit Steam Motors Co. (See Doble, Abner, assignor.)
Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake mechanism. 1,675,536; July 3.
Dodge, William E., Shawnee, Okla. Favor distributor. 1,676,137; July 3.
Dole, Myron W., Belmont, Mass. Liquid pump. 1,675,405; July 3.
Domestic Stoker Company. (See Hall, C. H., and Lloyd, assignors.)
Donle, Harold P., Meridan, Conn., assignor, by mesne assignments, to Radio Corporation of America. Electron device. 1,675,334; July 3.
Donnelly, Joseph C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for making match books. 1,676,009; July 3.
Dorer, Oscar H. (See Spillmann, M., and Dorer.)
Dorer, Oscar H., East Orange, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Waterworks auxiliary pump. 1,675,845; July 3.
Doroski, John, Calverton, N. Y. Combined planter and potato digger. 1,676,233; July 3.
Doty, John W., Olney, Ill. Mop. 1,675,601; July 3.
Douglas, James D., Detroit, Mich. Portfolio. 1,675,406; July 3.
Douglas, Paul H. (See Thomas, I. D., and Douglas.)
Downing, Omer L., South Norwood, Ohio. Adjustable hose cap for fire-department connections. 1,676,081; July 3.
Doyle, John T. (See Kliburn, I. J., and Doyle.)
Draper Corporation. (See Brown, Carl D., assignor.)
Draper Corporation. (See Hammett, O. C., and Scott, assignors.)
Draper Corporation. (See Merrill, Charles F., assignor.)
Drenning, Percy R., Baltimore, Md., assignor, by mesne assignments, to The Symington Company, New York, N. Y. Draft rigging. 1,676,178; July 3.
Drevitson, Carl B., Somerville, Mass. Golf tee. 1,675,335; July 3.
Drey, Simpson & Company. (See Byrd, Hugh L., assignor.)
Droege, Charles E. (See Moseley, T. H., and Droege.)
Dry Storage Battery Corporation. (See Csanyi, Henry, assignor.)

Drying Systems, Inc. (See Bluemel, Gustave, assignor.)
Duffy, James A., Fairmont, W. Va. Car chair. 1,676,010; July 3.
Dunn, Albert H. (See Lyans, C. K., and Dunn.)
Du Pont, E. I., de Nemours & Company. (See Baldsiefen, W. D., and Rogers, assignors.)
Du Pont, E. I., de Nemours & Company. (See Clewell, John H., assignor.)
Du Prel, Dr., Elektromedizenische Apparate G. m. b. H. (See Du Prel, Gerhard F., assignor.)
Du Prel, Gerhard F., assignor to Dr. du Prel Elektromedizenische Apparate G. m. b. H., Munich, Germany. High-frequency circuits. 1,675,882; July 3.
Dvorine, Israel, Baltimore, Md. Optometrical instrument. 1,675,407; July 3.
Dyer, Reamey H., Roanoke, Va. Waste retainer. 1,675,751; July 3.
Dyke, Darrell F., assignor to The Seng Company, Chicago, Ill. Bed davenport. 1,675,883; July 3.
Edmonds, George P., assignor to G. & W. Electric Specialty Company, Chicago, Ill. Electrical-conductor-protecting means. 1,675,408; July 3.
Edmonds, Warren O., Kansas City, Mo., assignor to Westinghouse Electric & Manufacturing Company. Relay system. 1,675,336; July 3.
Eitelgeorge, Frank A., Denver, Colo. Window wiper. 1,675,537; July 3.
Electric Auto-Lite Company, The. (See Gilchrist, C. F., and Patterson, assignors.)
Electric Fireplace Manufacturing Company. (See Meany, D. N., and Ellsworth, assignors.)
Electric Furnace Company, The. (See Cope, Frank T., assignor.)
Electrical Improvements Limited. (See Grant, Lewis C., assignor.)
Electrolux Servel Corporation. (See Von Platen, B. C., and Munters, assignors.)
Elliott Company. (See Rodgers, James P., assignor.)
Ellsworth, Edward N. (See Meany, D. N., and Ellsworth.)
Elmen, Gustaf W., Leonia, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Magnetic material. 1,675,884; July 3.
Embossing Company, The. (See Graham, Tom C., assignor.)
Engineering Specialties Company. (See Replogle, Delbert E., assignor.)
Entz, Theodore B. (See Klock, R. A., and Entz.)
Epstein, Albert K. (See Sokolsky, Louis, assignor.)
Epstein, Albert K., Chicago, Ill. Providing a new food product and improved product produced thereby. 1,676,138; July 3.
Errera, Abraham. (See Charlier, C., and Errera.)
Ettlinger, Ralph, Kansas City, Mo. Sausage casing. 1,676,082; July 3.
Evans, Albert E., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Glass-cutting table. 1,676,011; July 3.
Evans, Arthur L., et al. (See Bell, Earl R., assignor.)
Evans, Will, Inglewood, Calif. Mop. 1,675,699; July 3.
Everedy Company, The. (See Lebherz, Harry J., assignor.)
Failing, Otto C. (See Mason, A. R., and Failing.)
Failor, Charles W., Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,675,927; July 3.
Fairchild, William, assignor to Albany Perforated Wrapping Paper Company, Albany, N. Y. Dispensing cabinet. 1,675,700; July 3.
Falk Corporation, The. (See Frentzel, Herman E., assignor.)
Farley, John C., Opelika, Ala. Vacuum-tube contact device. 1,675,485; July 3.
Farr, Fred D., Perry, N. Y., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Valve cap. 1,675,752; July 3.
Farwell, Fay O., Toledo, Ohio. Loud speaker. Re17,024; July 3.
Fascetta, Michael, New York, N. Y. Antiseptic container for barkers' tools. 1,676,012; July 3.
Faucher, Edgar W., and H. W. Dills, Los Angeles, Calif. Radiator-cap ornament. Des. 75,678; July 3.
Faulconer, Richard R. and W. E., Lewiston, Mo. Saw set. 1,676,013; July 3.
Faulconer, William E. (See Faulconer, Richard R. and W. E.)
Faure, Charles E., Ivry-sur-Seine, assignor to Société à Responsabilité Limitée Bonnart & Cie., Paris, France. Fastening device for belts. 1,676,083; July 3.
Faust, William N., Kansas City, Mo. Suspended aerial-cable terminal. 1,675,602; July 3.
Fawick, Thomas L., Racine, Wis. Transmission. 1,675,538; July 3.
Fecher, Jacob, Ludenscheid, assignor to Lüdenscheider Metall-Werke Akt.-Ges. vorm. Jul. Fischer & Basse, Ludenscheid, Westphalia, Germany. Safety locking device. 1,676,014; July 3.
Fedders, John M., Buffalo, N. Y., assignor to Fedders Manufacturing Company, Inc. Radiator. 1,675,796; July 3.
Fedders Manufacturing Cimpany. (See Fedders, John M., assignor.)
Federal Glass Company, The. (See Cornwell, Virgil O., assignor.)
Federal Glass Company, The. (See Middendorf, David L., assignor.)
Federal Phosphorus Company. (See Neville, Neil, assignor.)
Feick, Otto, Schonau-on-the-Brenz, Germany. Sporting apparatus. 1,676,015; July 3.
Ferngen, A. E., Inc. (See Bennett, Claude C., assignor.)
Fesler, Douglas F., assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricant compressor. 1,675,452; July 3.
Field, Burnham E. (See Franks, R. and Field.)
Fifer, William A., assignor to Quincy Show Case Works, Quincy, Ill. Display case or similar article. Des. 75,679; July 3.
Fifth Avenue Coach Company. (See Forrester, Michael J., assignor.)
Fingerprint Machine Corporation. (See Glass, C. F., Bock, and Milligan, assignors.)
Fiuk, Colin G., Yonkers, N. Y. Form of tungsten and producing the same. 1,675,486; July 3.
Finney, Gassius L., et al. (See Green, Lee B., assignor.)
Firestone Tire and Rubber Company, The. (See Maranville, Harvey F., assignor.)
Fischer, Charles, New York, N. Y. Screen for telephones. 1,675,846; July 3.
Fischer, Sigmund, Providence, R. I. Unit for use in the manufacture of separable cuff links. 1,675,797; July 3.
Fisher, Alfred L., Yale, Iowa. Control for aircraft. 1,675,928; July 3.
Fisher, Carl G., Port Washington, N. Y. Electric switch attachment. 1,675,847; July 3.
Fisher, Roy, Los Angeles, Calif. Combined radiator-cap ornament and traffic signal. Des. 75,680; July 3.
Fitch, Benjamin F., Greenwich, Conn., assignor to Motor Terminals Company, Wilmington, Del. Freight truck. 1,675,701; July 3.
Fitz Gerald, Joseph G., assignor to Cental Alloy Steel Corporation, Canton, Ohio. Zinc coating ferrous metal. 1,675,646; July 3.
Fitz Harris, Thomas J. New Rochelle, assignor to Franklin Simon & Co. Inc., New York, N. Y. Shoe. Des. 76,681; July 3.
Flagg, Charles N., Meriden, Conn. Combination float and diaphragm valve. 1,676,084; July 3.
Fleming, Wills M., Holyoke, Mass., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Valve. 1,676,179; July 3.
Flori, Louis, Boulogne sur Seine, France. Press for drying and ironing wearing linen. 1,675,929; July 3.
Flumerfelt, Olin F., Hamburg, N. Y. Tire-inflating apparatus. 1,676,139; July 3.
Folberth, Frederick G. and W. M., Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,675,337; July 3.
Folberth, Frederick G. and W. M., Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,675,338; July 3.
Folberth, William M. (See Folberth, Frederick G. and W. M.)
Foley, Charles B., Fort Wayne, Ind. Traffic-control system. 1,675,339; July 3.
Forrester, Michael J., Astoria, N. Y., assignor to Fifth Avenue Coach Company. Vehicle top. 1,675,539; July 3.
Forry, Archie D., Clarksville, Iowa. Adjustable game device. 1,675,453; July 3.
Fowler, William R., Hamilton, Ohio. Attachment for felt conditioners. 1,675,540; July 3.
Fox, Gordon, assignor to Freyn Engineering Company, Chicago, Ill. Roll-heating means. 1,676,018; July 3.
Francis, Daniel R., assignor to The Waterbury Tool Company, Waterbury, Conn. Remote control for rolling-mill screw downs. 1,676,180; July 3.
Francis, Jacob R. (See Heginbottom, W. G., and Francis.)
Frankel, William, Astoria, N. Y. Peephole for doors. 1,676,140; July 3.
Franklin Railway Supply Company. (See Martin, Frederick W., assignor.)
Franklin Railway Supply Company. (See Roberts, Montague H., assignor.)
Franklin Simon & Co. Inc. (See Fitz Harris, Thomas J., assignor.)
Franks, Russell, Brooklyn, and B. E. Field, Douglaston, N. Y., assignors to Haynes Stellite Company. Alloy and making same. 1,675,798; July 3.
Franz, Frederick, Woodhaven, N. Y. Treatment of containers. 1,675,541; July 3.
Franzen, Frank, et al. (See Schiffko, Ewald J., assignor.)
Fraser, William H., et al. (See Bennett, James C., assignor.)
Frazier, Chauncey E., Washington, Pa. Melting furnace. 1,675,542; July 3.
Fremon, Jules A., and A. S. De Haven, Leeper, Mo., assignors to W. A. Sheaffer Pen Co., Fort Madison, Iowa. Fountain pen desk stand. 1,675,543; July 3.
French, Raymond E., Los Angeles, Calif. Nonclogging baseball-shoe spike. 1,675,885; July 3.
Frentzel, Herman E., assignor to The Falk Corporation, Milwaukee, Wis. Bending machine. 1,676,215; July 3.

Freyn Engineering Company. (See Fox, Gordon, assignor.)
Fried. Krupp Aktiengesellschaft. (See Schön, L., and Leukert, assignors.)
Friis, Harald T., Red Bank, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission regulation. 1,675,848; July 3.
Fritchey, Franklin W., Cumberland, Md. Bearing. 1,676,181; July 3.
Frost, Herbert H., Chicago, Ill., assignor, by mesne assignments, to Chicago Telephone Supply Company, Elkhart, Ind. Jack. 1,676,016; July 3.
Fuller Brush Company, The. (See Hines, William J., assignor.)
Fuller, Claud E., assignor to New York Brick Handling Corporation, New York, N. Y. Kiln bottom and method of building kilns. 1,676,182; July 3.
Fuller, John N., Lansdale, Pa. Internal-combustion engine. 1,675,702; July 3.
Fulton Syphon Company, The. (See Giesler, Jean V., assignor.)
Fultz, Miles E., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Alarm and control device. 1,675,849; July 3.
G. & W., Electric Specialty Company. (See Edmonds, George P., assignor.)
Gabriel, John C., assignor to Western Electric Company, Incorporated, New York, N. Y. High-frequency transmission. 1,675,890; July 3.
Gabrielson, Otto S., and M. J. Wennerstrom, Minneapolis, Minn. Anchoring device for boats. 1,675,930; July 3.
Gade, Harald F., Philadelphia, Pa., assignor to Standard Pressed Steel Co., Jenkintown, Pa. Lubricating means for loose pulleys and the like. 1,675,703; July 3.
Gahagan, Herman I., and W. P. Aron, Dallas, Tex., assignors, by mesne assignments, to The Whisk Razor Corporation, Buffalo, N. Y. Razor. 1,675,487; July 3.
Galloway, Robert M., and R. E. Sterling, assignors to The National Automatic Tool Company, Richmond, Ind. Reversing mechanism for drilling machines. 1,675,850; July 3.
Gambarotta, Piero, Quinto al Mare, Italy. Speed-indicating device. 1,675,974; July 3.
Gano, Harlan S., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal regulator. 1,675,340; July 3.
Gardner, Harold A., sr., Rochester, N. Y. Antisiphon trap. 1,675,409; July 3.
Garfunkle, Jacob N. Cincinnati, Ohio. Attachment for razors. 1,676,183; July 3.
Garraway, Lee O., Memphis, Tenn. Feed-water heater for locomotive boilers. 1,676,141; July 3.
Gartner, John H., San Francisco, Calif., assignor of one-fifth to P. S. Higgins, one-fifth to J. D. Skelly, and one-fifth to W. Shackleton. Presure-indicating device. 1,675,410; July 3.
Gas Research Company, The. (See Smith, Harry F., assignor.)
Gass, Elmer J., and D. W. Thurston, Detroit, Mich. Form for concrete and the like. 1,676,184; July 3.
Gatkowski, Stanley, Chicago, Ill. Electric sign. 1,675,851; July 3.
Geer, Edmund S., New York, N. Y. Record stop. 1,675,852; July 3.
General Cable Corporation. (See Atkinson, R. W., and Shurts, assignors.)
General Electric Company. (See Mittag, Albert H., assignor.)
General Electric Company. (See White, William C., assignor.)
General Motors Corporation. (See Boca, Joseph, assignor.)
General Motors Corporation. (See Chapman, William H., assignor.)
General Motors Corporation. (See Denyes, Harry M., assignor.)
General Motors Corporation. (See Knudsen, William S., assignor.)
General Motors Corporation. (See Lewellen, Albert R., assignor.)
General Motors Corporation. (See Martin, William L., assignor.)
General Motors Corporation. (See Spencer, Louis M., assignor.)
General Motors Corporation. (See Taub, Alex, assignor.)
General Motors Corporation. (See Taylor, Herbert B., assignor.)
General Motors Research Corporation. (See Short, Charles R., assignor.)
General Rubber Company. (See Rose, Reed P., assignor.)
Genjack, Conrad, Vancouver, British Columbia, Canada. Can-opening device. 1,675,647; July 3.
Gerrard Company, The. (See Rychlewski, Frank, assignor.)
Gerrish, Lloyd E., Kittery, Me. Toy. 1,676,085; July 3.
Gesellschaft für Drahtlose Telegraphie m. b. H. (See Meissner, Alexander, assignor.)
Gibson, Calder C., Buffalo, N. Y. Sealing press. 1,676,017; July 3.
Gibson, Francis W., West Roxbury, Mass., assignor to The H. D. Beach Company, Coshocton, Ohio. Display stand. 1,676,216; July 3.
Gibson, Francis W., West Roxbury, Mass., assignor to The H. D. Beach Company, Coshocton, Ohio. Table. 1,676,217; July 3.
Giesler, Jean V., assignor, by mesne assignments, to The Fulton Syphon Company, Knoxville, Tenn. Thermostatically-controlled valve unit. 1,675,341; July 3.
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., Hamden, assignor, by mesne assignments, to The A. C. Gilbert Company, New Haven, Conn. Casing for fruit-juice extractor. Des. 75,682; July 3.
Gilchrist, Clarence F., and H. R. Patterson, assignors, by mesne assignments, to The Electric Auto-Lite Company, Toledo, Ohio. Combined timer and distributor. 1,676,185; July 3.
Gillinder Brothers, Inc. (See Gillinder, Edwin B., assignor.)
Gillinder, Edwin B., assignor to Gillinder Brothers, Inc., Port Jervis, N. Y. Light-diffusing fixture. Des. 75,683; July 3.
Gillings, Charles, Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Director circuits. 1,675,544; July 3.
Girtanner, Alexander, Bayside, N. Y., and J. J. Mc Nulta, Summit, N. J., assignors to Girtanner Engineering Corporation, New York, N. Y. Soot-removing device. 1,676,019; July 3.
Girtanner Engineering Corporation. (See Girtanner, A., and McNulta, assignors.)
Gits, Remi J., assignor of one-third to W. E. Hann, Chicago, Ill. Lubricating means. 1,676,086; July 3.
Glass, Charles F., and A. C. O. Bock, Brooklyn, N. Y., and J. F. Milligan, Ridgefield Park, N. J., assignors to Fingerprint Machine Corporation. Fingerprint machine. 1,676,020; July 3.
Gold Medal Camp Furniture Manufacturing Company. (See Brown, Newton N., assignor.)
Goldberg, Herman, Washington, D. C. Direction-indicating signal. 1,675,342; July 3.
Goldman, Alvin D. (See Methudy, Carl E., assignor.)
Goldschmidt, Rudolf, Charlottenburg, Berlin, Germany. Mechanism for measuring the frequency of the pulse. 1,675,799; July 3.
Goldschmidt, Rudolf, Charlottenburg, Berlin, Germany. Mechanism for measuring the frequency of the pulse. 1,675,800; July 3.
Goldsmith, Bertram J., and E. Koeb, New York, assignors, by mesne assignments, to Perfect Window Regulator Corporation, Long Island City, N. Y. Window and door construction. 1,675,704; July 3.
Goodkewitz, Hyman S., Suffolk, Va. Vehicle wheel rim. 1,675,488; July 3.
Gorman, John. (See Poland, John, assignor.)
Gorman, Thomas A., Johnstown, Pa. Stamping apparatus. 1,675,801; July 3.
Goss, Plumb R., Kansas City, Mo. Store-service apparatus. 1,675,545; July 3.
Gould, John H., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Heater for motor vehicles. 1,676,021; July 3.
Gould Storage Battery Company. (See Klock, R. A., and Entz, assignors.)
Gouldbourn, Joseph, and F. Ricks, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon boots and shoes. 1,675,753; July 3.
Gourlay, Clarence A., Jamaica, N. Y. Cover table for typewriters. 1,675,648; July 3.
Gove, Edward H., deceased, Biddeford, Me.; E. J. Gove, executor. Pendulum or swinging flush valve for waterclosets. 1,676,234; July 3.
Gove, Everard J., executor. (See Gove, Edward H.)
Gradl, Ludwig. (See Weldinger, C., Gradl, and Schönner.)
Graham, Thaddeus, Los Angeles, Calif. Sound reproducer. 1,675,343; July 3.
Graham, Tom C., assignor to The Embossing Company, Albany, N. Y. Domino and making the same. 1,675,891; July 3.
Grant, Lewis C., assignor to Electrical Improvements Limited, Newcastle-upon-Tyne, England. Lightning or surge arrester. 1,675,649; July 3.
Grasselli Chemical Company, The. (See Howard, Henry, assignor.)
Grasselli Dyestuff Corporation. (See Ballauf, F., Muth, and Schmelzer, assignors.)
Grasselli Dyestuff Corporation. (See Kramer, Erwin, assignor.)
Graves, Harry S., Detroit, Mich. Piston-ring-clamping device. 1,675,603; July 3.
Gray, George S., Capron, Okla. Grave-decoration chest. Des. 75,684; July 3.
Green, Julius. (See Brown, M., and Green.)
Green, Lee B., Lakewood, assignor of one-third to E. L. Jones, Cleveland, one-third to C. L. Finney, Canton, and one-third to C. B. Krause, Cleveland, Ohio. Compressor. 1,675,546; July 3.
Gregory & Read Company. (See Gulliford, Nicholas L., assignor.)
Griffin, Edward B., Somerville, Mass. Railway spike. 1,676,022; July 3.
Grimmich, William, assignor to E. J. Paidar Company, Chicago, Ill. Reclining chair and foot rest. 1,675,547; July 3.
Grimshaw, William, Chicago, Ill. Ceiling plate. 1,676,228; July 3.

Grom, Louise, New York, N. Y. Finger-wave comb. 1,675,754; July 3.
Grossman, Mollie L., and J. N. Lowe, New York, N. Y. Hand hat bag. 1,676,229; July 3.
Grout, Martin B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Mandrel. 1,675,489; July 3.
Grout, Martin B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Winding machine. 1,675,650; July 3.
Guild, Thomas A., Honolulu, Hawaii. Mechanical cane cutter. 1,675,651; July 3.
Gulf Refining Company. (See Prichard, George L., assignor.)
Gullette, Mary I. (See Gullette, William A., assignor.)
Gullette, William A., assignor, by mesne assignments, to M. I. Gullette, Wheeling, W. Va. Lamp support for automobile running boards. 1,675,931; July 3.
Gulliford, Nicholas L., Peabody, assignor to Gregory & Read Company, Lynn, Mass. Machine for turning heels. 1,676,218; July 3.
Gump, B. F., & Co. (See Jubien, Paul, assignor.)
Gunnlaugsson, Skúli, Rio Vista, Calif. Tobacco pipe. 1,676,142; July 3.
Gustafson, Edwin A., assignor to A C Spark Plug Company, Flint, Mich.. Calibration. 1,675,604; July 3.
Guthrie, William S., Terrell, Tex., assignor to Marvel Carburetor Company, Flint, Mich. Carburetor. 1,675,344; July 3.
Guyton & Cumfer Mfg. Co. (See Cumfer, Harry A., assignor.)
Gwinn, George W., Hewlett, N. Y., assignor to American Machine & Foundry Company. Making containers for cakes, etc. 1,675,652; July 3.
Hague, Alfred E., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,675,886; July 3.
Hall, Carter F., and F. W. Lee, Baltimore, Md.; said Lee assignor to said Hall. Refrigerating system. Re17,019; July 3.
Hall, Clarence A., Philadelphia, Pa. Apparatus for making leaden powder. 1,675,345; July 3.
Hall, Cortice H., Paterson, N. J., and W. Lloyd, Hazleton, Pa., assignors to Domestic Stoker Company, New York, N. Y. Burner for solid fuel. 1,675,548; July 3.
Hall, Walter O., Franklin, Mass., assignor to American Type Founders Company, Jersey City, N. J. Transfer mechanism. 1,675,346; July 3.
Haller, Oliver J. (See Schiller, M. B., and Haller.)
Hamilton, Ferdinand A., Los Angeles, Calif., assignor to Southern California Gas Company. Testing machines. 1,675,802; July 3.
Hammer, Charles, Hollis Court Boulevard, assignor to American Metal Cap Company, Brooklyn, N. Y. Glass thread container. 1,676,023; July 3.
Hammer, Hans, Munich, Germany. Daybook. 1,675,887; July 3.
Hammett, Oren C., and G. R. Scott, Knoxville, Tenn., assignors to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. 1,675,549; July 3.
Hammond, Cecil F., and W. Shackleton, London, England. Apparatus for boiling or raising the temperature of water and other liquids. 1,675,347; July 3.
Hanauer, Darwin, La Grange, assignor to Kinney-Rome Company, Chicago, Ill. Collapsible bed. 1,675,411; July 3.
Handley, Arthur, Tunstall, England. Press for shaping covers of teapots and the like. 1,675,550; July 3.
Hann, William E. (See Gits, Remi J., assignor.)
Hansen, Augie L., assignor to H. S. Strausser, Chicago, Ill. Filter unit and making same. 1,676,024; July 3.
Hanson, Herman C., Los Angeles, Calif. Extension table. 1,676,025; July 3.
Harbison-Walker Refractories Company, The. (See Oeffner, Abiram A., assignor.)
Hardsocg Wonder Drill Co. (See Smith, George W., assignor.)
Harley-Davidson Motor Company. (See Harley, W. S., and Constantine, assignors.)
Harley, William S., and A. R. Constantine, assignors to Harley-Davidson Motor Company, Milwaukee, Wis. Cycle support. 1,675,551; July 3.
Harris, Floyd E., Flint, Mich. Heat-controlling apparatus. 1,675,605; July 3.
Harrison, Henry C., Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Wave-energy-translating diaphragm and mounting same. 1,675,853; July 3.
Harrison, Samuel A., Los Angeles, Calif. Sorting desk. 1,675,454; July 3.
Harrison, William O., and G. W. Johnson, Buffalo, N. Y. Combined vending and display case. Des. 75,685; July 3.
Hart & Cooley Manufacturing Company, The. (See Hart, Stanley, assignor.)
Hart, Stanley, assignor to The Hart & Cooley Manufacturing Company, New Britain, Conn. Register and ventilator. 1,675,854; July 3.
Hartford-Empire Company. (See Peiler, Karl E., assignor.)
Hartmann, Otto H., and E. Bleitner, assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H., Kassel-Wilhelmshohe, Germany. Steam boiler. 1,675,892; July 3.
Hartmann, Otto H., and H. Peperkorn, assignors to Schmidt'sche Heissdampf-Gesellschaft m. b. H., Kassel-Wilhelmshohe, Germany. Water gauge for steam boilers. 1,676,026; July 3.
Hartmann Trunk Company. (See Ritter, Julius, jr., assignor.)
Harvey, George H., Rochester, assignor of one-half partnership interest to E. A. Lawrence, Bellevue, Pa. Process and apparatus for drawing sheet glass. 1,676,027; July 3.
Harvey, William J., New York, N. Y. Foot and ankle protecting means. 1,675,348; July 3.
Harwood, George S., & Son. (See Howe, Joseph B., assignor.)
Hauserman, E. F., Company, The. (See Bohnsack, John A., assignor.)
Hawkins, Roe C., assignor of one-third to F. E. Abbott, Long Beach, Calif. Valve control for plunger pumps. 1,676,186; July 3.
Hawxhurst, Henry I., Sierra Madre, Calif. Gymnastic appliance. 1,675,552; July 3.
Haynes, Pierre E., East Aurora, N. Y. System of refrigeration. 1,675,455; July 3.
Haynes Stellite Company. (See Franks, R. and Field, assignors.)
Healy, Leon J. D., Milwaukee, assignor to Wright Rubber Products Company, Racine, Wis. Paving block. Re17,020; July 3.
Heany, John A., assignor to Heany Laboratories, Inc., New Haven, Conn. Electric transmission. 1,676,028; July 3.
Heany Laboratories. (See Heany, John A., assignor.)
Heginbottom, Walter G., and J. R. Francis, Flint, Mich. Intake manifold for internal-combustion engines. 1,675,349; July 3.
Heine Boiler Company. (See Burke, Robert F., assignor.)
Heine, Herman E., assignor to Bradley Washfountain Company, Milwaukee, Wis. Trap. 1,676,029; July 3.
Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Radiotransmission. 1,675,888; July 3.
Helin, Francis A., Watertown, N. Y. Twenty-four-hour clock. 1,676,030; July 3.
Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Coin-operated weighing scale. 1,675,975; July 3.
Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,675,976; July 3.
Henderson, Elizabeth E., Dedham, Mass. Sheet-supporting clip. 1,675,755; July 3.
Henderson, Louis S., Philadelphia, Pa. Rug or similar article. Des. 75,686; July 3.
Henry, Francis M., Minneapolis, Minn. Boat. 1,675,606; July 3.
Henry, Francis M., Minneapolis, Minn. Self-dumping barge. 1,675,607; July 3.
Herborn, Ludwig, Bierstadt, assignor of one-third to W. Horn and one-third to A. Horn, Wiesbaden, Germany. Brake for hoisting devices and the like. 1,676,087; July 3.
Herlbauer, Joseph J. (See Smith, J. E., and Herlbauer.)
Herr, Herbert T., Merion, Pa., assignor to Westinghouse Electric and Manufacturing Company. Adjustable bearing. 1,675,490; July 3.
Herz, Alexander. (See Conti, Eugene, assignor.)
Hewetson, Harold F., assignor, by mesne assignments, to Truscon Steel Company, Youngstown, Ohio. Sheet-feeding guide for expanding machines. 1,675,803; July 3.
Hickey, Patrice H., Happy Camp, Calif. Time indicator. Des. 75,687; July 3.
Higgins, Patrick S., et al. (See Gartner, John H., assignor.)
Hilditch, Ernst, et al., executors. (See Bull, Fredrik R.)
Hill, Lucille, et al. (See Schiffko, Ewald J., assignor.)
Hines, Calvin N. (See Brower, C. E., and Hines.)
Hines, William J., assignor to The Fuller Brush Company, Hartford, Conn. Vanity case. Des. 75,688; July 3.
Hitchings & Company. (See King, Thomas E., assignor.)
Hitchings & Company. (See Macdonald, John K., assignor.)
Hoban, Mark S., London, England. Circuit breaker. 1,676,143; July 3.
Hoeller, Richard, et al. (See Kreft, Ewald, assignor.)
Hoffer, Le Roy H., assignor to T. E. Murray, Brooklyn, N. Y. Electric welding machine. 1,675,705; July 3.
Hohnhorst, Ferdinand J., Covington, Ky. Abrading nib for abrading machines. 1,675,804; July 3.
Holcomb, Jarrett C., Sulphur Springs, assignor of one-half to R. F. Cameron, Dallas, Tex. Electric razor. 1,675,805; July 3.
Holden, Crofton C., assignor to Royal Comb Company, Leominster, Mass. Clasp. 1,675,806; July 3.
Holden, William H. T., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Echo and singing suppressor system. 1,675,412; July 3.
Holley, Clarence M., Highland Park, Mich., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio. Expansion valve. 1,676,031; July 3.
Holmes, Henry S., New York, assignor to T. E. Murray, Brooklyn, N. Y. Wheel nave and the like and forming it. 1,675,706; July 3.
Holmes, Pedro, Kansas City, Kans. Mowing machine. 1,676,088; July 3.

Holst, Gilles, E. Oosterhuis, and J. Bruijnes, assignors to Naamlooze Vennootschap Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Electric gas-filled glow-discharge device. 1,675,350; July 3.

Holte, Harold O., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,675,553; July 3.

Hoover Company, The. (See Holley, Clarence M., assignor.)

Hoover Company, The. (See Smellie, Donald G., assignor.)

Hopwood, John M. (See Peebles, Thomas A., assignor.)

Horn, August, et al. (See Herborn, Ludwig, assignor.)

Horn, Willy, et al. (See Herborn, Ludwig, assignor.)

Hornaday, James M., Richmond, Va. Cut-off mechanism for cigarette machines. 1,675,351; July 3.

Houghton, Erol V., Syracuse, N. Y. Can opener. 1,675,807; July 3.

Houseknecht, Eli M., Thurmond, W. Va. Diaper. 1,676,144; July 3.

Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Making sodium hydrosulphide. 1,675,491; July 3.

Howard, Joseph O., Evanston, Ill. Holder. 1,676,032; July 3.

Howard, Karl S. (See Quinby, George F., assignor.)

Howe, James M., assignor to The Murray Manufacturing Company, Cleveland, Ohio. Bearing mechanism. 1,675,932; July 3.

Howell, Albert S., assignor to Bell & Howell Company, Chicago, Ill. Incandescent-electric-lamp socket, lamp, and adapter therefor. 1,675,554; July 3.

Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Photographic device. 1,675,555; July 3.

Hower, Joseph B., Worcester, assignor to George S. Harwood & Son, Boston, Mass. Card-feeding mechanism. 1,675,756; July 3.

Howle, Kenneth, Norristown, Pa., assignor to Wildman Mfg. Co., Norristown, Pa. Yarn guide for knitting machines. 1,675,556; July 3.

Howle, Kenneth, assignor to Wildman Mfg. Co., Norristown, Pa. Knitting implement for knitting machines. 1,675,557; July 3.

Hoxton, L. G., et al. (See Page, Charles H., assignor.)

Hudson, William E., et al. (See Dean, R. S., and Hudson.)

Huebner-Bleistein Patents Company. (See Huebner, William C., assignor.)

Huebner, William C., assignor to Huebner-Bleistein Patents Company, Buffalo, N. Y. Vacuum pressure device and mask. 1,675,492; July 3.

Huebner, William C., assignor to Huebner-Bleistein Patents Company, Buffalo, N. Y. Holding and supporting device for printing or print-receiving elements or the like. 1,675,493; July 3.

Hufford, Harry J., Scranton, Pa. Thread cleaner. 1,676,187; July 3.

Hughes, Jesse W. (See Bunker, Frank S., assignor.)

Hugus, James A., Fort Scott, Kans. Saw-filing guide. 1,676,188; July 3.

Hull, Foster J., assignor to Pangborn Corporation, Hagerstown, Md. Sand-blast-abrasive reclaiming chute. 1,675,707; July 3.

Hull, Lewis M., assignor to Radio Frequency Laboratories, Incorporated, Boonton, N. J. Adjusting audion circuits. 1,676,145; July 3.

Humphrey, Ernest N., New Britain, Conn., assignor to United Royalties Corporation, New York, N. Y. Beater-blade support. 1,676,189; July 3.

Huntley Manufacturing Co. (See Morse, Theodore F., assignor.)

Huselton, William W., et al. (See Csanyi, Henry, assignor.)

Hybinette, Noak V., Wilmington, Del. Alloy. 1,675,708; July 3.

Hybinette, Noak V., Wilmington, Del. Heat-resisting alloy and structure. 1,675,709; July 3.

Industrial Associates, Incorporated. (See Riley, Champlain L., assignor.)

Industrial Brownhoist Corporation. (See Taylor, Ernest W., assignor.)

International Spotlight Corporation. (See Sklarek, Clifford, assignor.)

International Time Recording Company of New York. (See Bryce, James W., assignor.)

Invincible Laundry Equipment Co. (See Bell, Daniel, assignor.)

Ioco Rubber & Waterproofing Company, The. (See Ryan, Alfred, assignor.)

Isom, Edward W. (See Parmelee, C. L., and Isom.)

Isom, Edward W., Winnetka, Ill., and C. L. Parmelee, Orange, N. J., assignors to Sinclair Refining Company, Chicago, Ill. Cracking hydrocarbons. 1,675,558; July 3.

Isom, Edward W., Winnetka, Ill., and J. E. Bell, Brooklyn, N. Y., assignors to Sinclair Refining Company, Chicago, Ill. Circulatory cracking still and pump therefor. 1,676,202; July 3.

Isom, Edward W., Winnetka, Ill., and J. E. Bell, Brooklyn, N. Y., assignors to Sinclair Refining Company, Chicago, Ill. Operation of pressure stills. 1,676,203; July 3.

Isom, Edward W., Scarsdale, N. Y., and A. C. Vobach, Whiting, Ind., assignors to Sinclair Refining Company, Chicago, Ill. Oil still. 1,676,204; July 3.

Iymori, Satoyasu, and K. Suzuki, assignors to Z. H. R. Kenkyujo, Tokyo, Japan. Making solvent oil. 1,675,977; July 3.

Jackson, John H., Needham, Mass. Necktie renovator. 1,675,757; July 3.

Jacobson, Arthur G., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Gripper mechanism. 1,675,559; July 3.

Jakobsson, Herman. (See Crock, Louis H., assignor.)

Jammer, Jacob S., assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier-wave transmission. 1,675,893; July 3.

Jelley, James J. (See Ledyard, H. A., and Jelley.)

Jennings, George. (See Jennings, William and G.)

Jennings, William and G., Morpeth, England. Screw and nut gearing. 1,675,494; July 3.

Jo Pet, Inc. (See Petty, John, assignor.)

Johanson, Pehr, and D. E. Webster, assignors to Norton Company, Worcester, Mass. Rubber-bonded abrasive wheel and making same. 1,676,190; July 3.

Johns-Manville Corporation. (See Kemper, Ray T., assignor.)

Johnson, Carl W., Shaker Heights, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Bearing. 1,675,933; July 3.

Johnson, David A., Belvue, Kans. Grubbing machine. 1,675,413; July 3.

Johnson, Fred D., et al., trustees. (See Mathews, Theodore A., assignor.)

Johnson, George T., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Brake hanger. 1,675,608; July 3.

Johnson, George W. (See Harrison, W. O., and Johnson.)

Johnson, John E., assignor to Speedaumat Addressing Machinery, Incorporated, Chicago, Ill. Selector-discharge mechanism. 1,675,710; July 3.

Johnson & Johnson. (See Johnson, Robert W., assignor.)

Johnson, Robert W., assignor to Johnson & Johnson, New Brunswick, N. J. Sterilizing ligature tubes. 1,676,090; July 3.

Johnson, William W., Memphis, Tenn. Ice-can bracket and drop tube. 1,676,089; July 3.

Jones, Earl L., et al. (See Green, Lee B., assignor.)

Jones, George A., assignor to Shoe Products, Inc., Lynn, Mass., Shoe. 1,675,711; July 3.

Jordahl, Anders, New York, N. Y. Filter medium for air filters. 1,676,191; July 3.

Joyce, Harold L., East Orange, N. J., assignor, by mesne assignments, to Splitdorf Electrical Company, Newark, N. J. Switch. 1,675,352; July 3.

Jubien, Paul, assignor to B. F. Gump Co., Chicago, Ill. Agitator. 1,675,560; July 3.

Junkers, Hugo. (See Weismann, Charles, assignor.)

Kade, Friedrich, assignor to Deutsche Werke Kiel Aktiengesellschaft, Kiel, Germany. Protective device for compensated asynchronous motors. 1,675,495; July 3.

Karfiol, Edward, Brooklyn, N. Y. Dolly. Des. 75,689; July 3.

Kasdan, Nathan, Bronx, and D. Pollack, Brooklyn, assignors to Majestic Metal Specialties, Inc., New York, N. Y. Cosmetic-stick holder. 1,675,496; July 3.

Kavle, Oscar C. (See Moulton, L. W., and Kavle.)

Kay, Lloyd D., Los Angeles, Calif. Dual-tired truck wheel. 1,675,934; July 3.

Keel, Glen I., Indianapolis, Ind. Sensitized screen and making same. 1,675,561; July 3.

Keeney Manufacturing Company. (See Macristy, Walter, assignor.)

Kellett, William P., Brantford, Ontario, Canada. Freight-transportation means. 1,675,562; July 3.

Kelley, Lawrence E., Blue Ridge, Tex. Quilter. 1,675,609; July 3.

Kelliher, Frederick H., Cleveland, Ohio. Producing carbon-dioxide gas. 1,675,497; July 3.

Kellner, Louis, Chicago, Ill. Safety plug and lamp socket. 1,675,353; July 3.

Kellogg Switchboard and Supply Company. (See Grout, Martin B., assignor.)

Kemp, C. M., Manufacturing Co., The. (See Kemp, William W., assignor.)

Kemp, William W., Baltimore, Md. Drying apparatus. 1,676,091; July 3.

Kemp, William W., assignor to The C. M. Kemp Manufacturing Co., Baltimore, Md. Drying apparatus. 1,676,092; July 3.

Kemper, Ray T., Los Angeles, Calif., assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y. Oil-tank insulation. 1,675,354; July 3.

Kenkyujo, Zaidan H. R. (See Iymori, S., and Suzuki, assignors.)

Keyser, Johann J., Aarau, Switzerland. Spinning and twisting machine. 1,676,093; July 3.

Kilburn, Isaac J., Denver, Colo., and J. T. Doyle, Broomfield, Colo. Cattle guard. 1,675,653; July 3.

King, Thomas E., Westfield, assignor to Hitchings & Company, Elizabeth, N. J. Greenhouse. 1,675,712; July 3.

King, William J., assignor to The E. T. Burrowes Company, Portland, Me. Folding table. 1,675,355; July 3.

Kinney-Rome Company. (See Hanauer, Darwin, assignor.)

Kinzler, Edward F., assignor of one-half to R. Rawsthorne, jr., Pittsburgh, Pa. Apparatus for making photographic reproductions. 1,676,033; July 3.

Kirchhoff, Ernest, Great Kills, assignor to Elias Reiss & Company, New York, N. Y. Textile fabric. Des. 75,690; July 3.

Kirk, Henry C., Baltimore, Md. Treating oils. 1,676,230; July 3.

Kirkpatrick, Thomas P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,675,356; July 3.

Kishpaugh, Arthur W., East Orange, N. J., assignor to Western Electric Company, Incorporated. Electric wave signaling system. 1,675,889; July 3.

Klein, Frederick, College Point, N. Y. Signal apparatus. 1,675,713; July 3.

Kliss, Charles J., Scranton, Pa. Pipe joint. 1,675,808; July 3.

Klock, Raymond A., Rockaway Beach, and T. B. Entz, Brooklyn, N. Y., assignors, by mesne assignments, to Gould Storage Battery Company, Inc. Storage battery. 1,675,978; July 3.

Klohe, Joseph, New York, N. Y. Mitering and cutting machine. 1,675,563; July 3.

Klopman, Lee, et al. (See Csanyi, Henry, assignor.)

Knowlton, Eugene W., Buffalo, N. Y. Sanitary meat grinder. 1,675,809; July 3.

Knox, Luther L., assignor to Knox Products Company, Pittsburgh, Pa. Compound wall structure. 1,676,094; July 3.

Knox Products Company. (See Knox, Luther L., assignor.)

Knudsen, William S., assignor to General Motors Corporation, Detroit, Mich. Steering-column support. 1,675,610; July 3.

Koch, Fred, Brooklyn, assignor to The Sanitation Corporation, New York, N. Y. Catch basin. 1,675,714; July 3.

Koch, Paul W., & Company. (See Schreiner, John A., assignor.)

Koeb, Emil. (See Goldsmith, B. J., and Koeb.)

Koff, Samuel, New York, N. Y. Box. 1,675,414; July 3.

Kogler, Albert P. (See Kogler, Elsa S. and A. P.)

Kogler, Elsa S. and A. P., San Francisco, Calif. Combination strainer and container. 1,675,855; July 3.

Kollman, Bartley H., and E. R. Phillips, Indianapolis, Ind. Advertising sign. 1,675,357; July 3.

Kolody, Andrew, Chicago, Ill. Aeroplane steering device. 1,675,935; July 3.

Konoff, Alexander, New York, N. Y., assignor to Voices Incorporated, Wilmington, Del. Sounding device for dolls and other toys. 1,675,358; July 3.

Koppers Company, The. (See Becker, Joseph, assignor.)

Korzenborn, Charles, Cincinnati, Ohio. Printer's sheet receptacle. 1,676,095; July 3.

Krafft, Bruno A., San Francisco, Calif. Safety cover for cooking vessels. 1,676,146; July 3.

Kramer, Erwin, Cologne-Deutz, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Sulphur dyestuff. 1,675,498; July 3.

Kramer, Erwin, Cologne-Deutz, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Sulphur dyestuff dyeing cotton yellow. 1,675,499; July 3.

Krause, Conrad B., et al. (See Green, Lee B., assignor.)

Kreft, Ewald, assignor of one-sixth to R. Hoeller, one-sixth to F. L. Werner, one-sixth to F. Schindler, one-sixth to F. Amiehaensel, and one-sixth to L. Neudecker, St. Louis, Mo. Slaughtering device. 1,675,856; July 3.

Kropp, Walter, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Pharmaceutical compound. 1,675,500; July 3.

Kueppers, Frederick C., Hawthorne, N. J. Glare shield. 1,675,936; July 3.

Kunthey, Gregory W., Waterbury, and C. W. Bristol, Naugatuck, assignors to The Bristol Company, Waterbury, Conn. Regulating apparatus. 1,675,359; July 3.

Kusterle, Frank, assignor to Simmons Company, Kenosha, Wis. Bolted connection for bedstead-corner locks. 1,675,564; July 3.

Kwasnicki, Adolf, Brooklyn, N. Y. Doll or the like. 1,676,096; July 3.

Lacy, Edward J., New York, N. Y. Method and apparatus for reducing carbon monoxide in motor exhaust gases. 1,675,611; July 3.

Lalug, John B., et al. (See Stroup, Robert D., assignor.)

Laird, Frank J., Butte, Mont. Valve. 1,675,979; July 3.

Laird, Isaac L., assignor to Bird Machine Company, South Walpole, Mass. Screen for paper making. 1,675,612; July 3.

Laird, Isaac L., assignor to Bird Machine Company, South Walpole, Mass. Screen for paper making. 1,675,613; July 3.

Lamps, Walter, New York, N. Y. Paper clip or similar article. Des. 75,691; July 3.

Landis Tool Company. (See Rowell, Ralph K., assignor.)

Lang, George L., South Orange, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Indicating means for radio apparatus. 1,675,360; July 3.

Lang, George R., Pittsburgh, Pa. Coal digging and loading machine. 1,676,097; July 3.

Langdon, John W., Walla Walla, Wash. Valve. 1,676,034; July 3.

Larson, Charles L. (See Dahlstrom, F. P., and Larson.)

Lasting, Hyman B., Portsmouth, Va. Golf game. 1,675,937; July 3.

Laterra, John, Patterson, N. Y. Padding and sizing machine for silk or cotton fabric. 1,675,810; July 3.

Law, John B., Jersey City, N. J. Rim remover. 1,675,938; July 3.

Lawrence, Edward A. (See Harvey, George H., assignor.)

Layman, Milton R., Johnstown, Pa. Soda-fountain ice-cream machine and manufacturing and dispensing ice cream. 1,675,361; July 3.

Lebherz, Harry J., assignor to The Everedy Company, Frederick, Md. Silent door closer. 1,675,980; July 3.

Lebson, Samuel, executor. (See Csanyi, Henry, assignor.)

Ledyard, Harry A., and J. J. Jelley, Ashland, Ohio; said Jelley assignor to said Ledyard. Combined transporting and lowering burial apparatus. 1,675,362; July 3.

Lee, Aubrey M., assignor to Simplex Ice and Manufacturing Company, Dallas, Tex. Ice-scoring machine. 1,676,192; July 3.

Lee, Frederick W. (See Hall, C. F., and Lee.)

Lee, Mathias S., Seattle, Wash. Saw. 1,675,565; July 3.

Lee, Robert E., Cincinnati, Ohio. Metallic window frame and sash. 1,676,193; July 3.

Lees, John W., Los Angeles, Calif. Graver-sharpening and facet-cutting machine. 1,675,981; July 3.

Lehman, Nicholas, Birmingham, Ala. Cotton-picking device. 1,675,501; July 3.

Lehnert, Henry W. A., New York, N. Y. Nozzle. 1,676,035; July 3.

Leinert, Charles H., assignor to Leinert Valve Company, Chicago, Ill. Valve for compressors. 1,675,566; July 3.

Leinert Valve Company. (See Leinert, Charles H., assignor.)

Lenox, Russell A., et al. (See Bell, Earl R., assignor.)

Leoni, Hugo, New York, N. Y. Necktie. 1,675,768; July 3.

Leprestre, René, New York, N. Y. Steaming iron. 1,676,098; July 3.

Les Fils de Emile Boudios. (See Boudios, Edmond E., assignor.)

Lesourd, Georges. (See Alkan, R., and Lesourd.)

Leukert, Wilhelm. (See Schön, L., and Leukert.)

Levitt, Samuel, Brooklyn, assignor to United Metal Hose Company, Inc., New York, N. Y. Pipe coupling. 1,676,036; July 3.

Lewellen, Albert R., assignor to General Motors Corporation, Detroit, Mich. Circuit-controlling device. 1,675,614; July 3.

Lewis, Claude A., Houston, Tex., assignor to American Window Company. Window support. 1,675,939; July 3.

Lewis, Winford L., Evanston, Ill. Dispersing noxious materials. 1,675,940; July 3.

Liebowitz, Benjamin, Pennside, Pa. Wire connecter. 1,675,857; July 3.

Liebrich, John E., Indianapolis, Ind. Candy package. 1,675,415; July 3.

Liftin, Daniel, New York, N. Y. Finger ring. 1,675,715; July 3.

Lind, Ebba, New York, N. Y. Comb. 1,676,099; July 3.

Lindhard, Povl T., Brooklyn, assignor to F. L. Smidth & Co., New York, N. Y. Rotary kiln and cooler. 1,675,416; July 3.

Lindridge, Charles D., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for recording and reproducing sound. 1,675,894; July 3.

Lindsay, Lycurgus, Los Angeles, Calif. Vacuum air separator. 1,675,941; July 3.

Litter, Frederick A., Columbus, Ohio. Reamer grinder. 1,675,858; July 3.

Lloyd, William. (See Hall, C. H., and Lloyd.)

Lockrow, Laurice L., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical apparatus. 1,675,567; July 3.

Lodding, Frederick W., assignor to Rice, Barton & Fales, Inc., Worcester, Mass. Controlling means for calender doctors. 1,675,363; July 3.

Loeck, Günther, assignor to the firm George Wolf G. m. b. H., Berlin, Germany. Optical apparatus for examining cavities and tubes in the body. 1,675,364; July 3.

Lomax, Clarence E., assignor, by mesne assignments, to Automatic Electric Company, Chicago, Ill. Telephone system. 1,675,502; July 3.

Lord, Fred W., assignor to The Oakes Manufacturing Company, Tipton, Ind. Furnace brooder. 1,676,194; July 3.

Lord, James H., Methuen, Mass. Incubating apparatus. 1,675,895; July 3.

Lose, James E., Wilkinsburg, Pa. Tuyère cooler. 1,675,811; July 3.

Losey, Arthur, Bay Shore, N. Y., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Apparatus for casting pipe and other annular articles centrifugally. 1,675,716; July 3.

Loud, William H. (See Roehrich, Frank N., assignor.)

Lovejoy, Ralph M., Boston, Mass. Shock absorber. 1,676,147; July 3.

Lowe, Joseph N. (See Grossman, M. L., and Lowe.)

Lowkrantz, Gunne, assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Film-moving mechanism. 1,676,037; July 3.

Loyd, Lee G., Ardmore, Okla. Storage-battery tool. 1,675,812; July 3.

Loyd, William C., and A. R. McArthur, Gary, Ind., assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa. Grease-melting furnace. 1,675,813; July 3.

Lüdenscheider Metall-Werke Akt.-Ges. vorm. Jul. Fischer & Basse. (See Fecher, Jacob, assignor.)

Lummis, Charles W., assignor to Morgan Construction Company, Worcester, Mass. Gas producer. 1,676,148; July 3.

Lundberg, Charles A., Chicago, Ill. Outlet-box support. 1,675,942; July 3.

Lund, Gustav A., Milwaukee, Wis. Aeroplane. 1,675,759; July 3.

Lund, Oscar J., Omaha, Nebr. Cradle. 1,676,100; July 3.

Luther, Fritz, assignor to G. Polysius, Dessau, Germany. Drying apparatus for rotary kilns. 1,675,717; July 3.

Lyall, John, Leith, Scotland. Control or change-over valve mechanism. 1,675,982; July 3.

Lyans, Cecil K., Baldwin, N. Y., and A. H. Dunn, Du Bois, Pa. Phonograph. 1,676,101; July 3.

Lyda, Arthur W., North Canton, Ohio. Releasing hook. 1,675,896; July 3.

Lyen, Andrew C., and C. W. Morgan, Chicago, Ill. Inserting or seating the outer races of ball bearings, bushings, and the like in machine housings. 1,675,568; July 3.

Lynch, Joseph H., Asbury Park, N. J. Laundry-checking device. 1,675,718; July 3.

Lynam, Thornton L., Dartmouth, Mass. Lemon squeezer. 1,676,102; July 3.

Macdonald, Benjamin J., et al. (See Cabrera, Charles T., assignor.)

Macdonald, John K., Ridgewood, assignor to Hitchings & Company, Elizabeth, N. J. Greenhouse. 1,675,719; July 3.

MacDougall, Ernest E. (See Bultman, Charles E., assignor.)

Mackenzie, Fred L., of Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,675,569; July 3.

MacLaren, Fred B., Jamaica, assignor to C. H. Braselton, New York, N. Y. Pump-modifying mechanism for fuel-feeding devices. 1,676,038; July 3.

Macristy, Walter, New Britain, assignor to Keeney Manufacturing Company, Newington, Conn. Floor or ceiling plate. 1,675,983; July 3.

MacWilliams, James F., Cresson, Pa. Apparatus for testing coils. 1,676,195; July 3.

Madigan, Thomas J., Brooklyn, N. Y. Eraser. 1,675,570; July 3.

Magill, Paul L., and P. J. Carlisle, Niagara Falls, assignors to The Roessler & Hasslacher Chemical Co., New York, N. Y. Manufacture of hydrocyanic acid from formamide. 1,675,366; July 3.

Mahan, Frank M., et al. (See Bowers, Arlan L., assignor.)

Mahar, Merton E., assignor to Milwaukee Stamping Company, West Allis, Wis. Reenforcing frame for wardrobe-trunk sections. 1,675,654; July 3.

Mairich, Carl, Berlin, Germany. Bakehouse oven. 1,675,943; July 3.

Majestic Metal Specialties, Inc. (See Kasdan, N., and Pollack, assignors.)

Maney, Thomas, Louisville, Ky. Claw bar. 1,676,149; July 3.

Manzel, Charles W., Buffalo, N. Y. Hydraulic shock absorber. 1,675,760; July 3.

Maranville, Harvey F., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Apparatus for removing fabric strips from cutting machines. 1,675,984; July 3.

Marbury, Lucian B., Metropolis, Ill. Cigarette-package dispenser. 1,675,814; July 3.

Marlatt, George E., Pasadena, Calif. Typographical distributing bar. 1,676,196; July 3.

Marrinan, John, Washington, D. C. Ground anchor. 1,676,197; July 3.

Marshall, Charles O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale mechanism. 1,675,944; July 3.

Martin, Frederick W., Manhattan Beach, N. Y., assignor to Franklin Railway Supply Company. Railway booster. 1,675,571; July 3.

Martin, George C., Los Angeles, Calif. Pump. 1,675,945; July 3.

Martin, Harold W., San Bernardino, Calif. Adjustable tray for child's chair. 1,675,985; July 3.

Martin, William L., assignor to General Motors Corporation, Detroit, Mich. Control mechanism. 1,675,615; July 3.

Martini, Marco, Oakmont, Pa. Calendar clock. 1,675,761; July 3.

Marvel Carburetor Company. (See Guthrie, William S., assignor.)

Mason, Arthur R., and O. C. Failing, Medford, Oreg., assignors to Accurate Gasoline Recording Company. Recording and sales-check mechanism for fluid-dispensing pumps. 1,676,198; July 3.

Mason, Charles T., Sumter, assignor of one-half to H. L. Buck, Conway, and one-half to R. P. Yates, Sumter, S. C. Lubricating and sealing system for rotary compressors. 1,676,103; July 3.

Mason, Harold L., London, England. Full-way or gate valve. 1,675,986; July 3.

Mason, Howard, Saxonville, Mass. Pile-fabric loom. 1,676,039; July 3.

Mathews, Oralee, Detroit, Mich. Hair-straightening device. 1,675,762; July 3.

Mathews, Theodore A., assignor of 40 per cent to F. D. Johnson and W. N. Butler, trustees, Washington, Pa. Air compressor. 1,675,457; July 3.

Mawby, John H., West Midland, Western Australia, Australia. Pneumatically-driven ship. 1,676,150; July 3.

McArthur, Arthur R. (See Loyd, W. C., and McArthur.)

McAtree, John L., New York, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Lip stick. 1,675,365; July 3.

McCabe, Ira E., Chicago, Ill. Safety electric control device. 1,675,897; July 3.

McCabe, Ira E., Chicago, Ill. Housing for light-actuated switches. 1,675,898; July 3.

McCallum, Wallace, Minburn, Iowa. Ventilating attachment for milk-can covers. 1,675,503; July 3.

McCarthy, Charles T., South Weymouth, assignor of one-half to E. R. Wharton, Medford, Mass. Handles for portable incandescent lamps. 1,675,763; July 3.

McCarty, Earnest, et al. (See Bowers, Arlan L., assignor.)

McCarty, Richard J., jr., Bethlehem, Pa., assignor to Bethlehem Steel Company. Auxiliary locomotive support. 1,675,456; July 3.

McCord Radiator & Mfg. Co. (See Gould, John H., assignor.)

McCormick, Robert, Ames, Iowa. Surveyor's device. 1,675,946; July 3.

McDonald, Oliver R., Bridgeport, Conn., assignor to American Chain Company, Inc. Automobile bumper. 1,675,458; July 3.

McEntire, Frederick W., Salt Lake City, Utah. Control apparatus for centrifugal separators. 1,675,947; July 3.

McKee, Ralph H., New York, N. Y. Filtering material and process of filtering. 1,676,151; July 3.

McKee, Willis, Cleveland, Ohio, assignor to Central National Bank of Cleveland. Conveyer. 1,675,948; July 3.

McKee, Willis, Cleveland, Ohio, assignor to Central National Bank of Cleveland. Hotbed. 1,675,949; July 3.

McKee, Willis, Cleveland, Ohio, assignor to Central National Bank of Cleveland. Cooling work blanks. 1,675,950; July 3.

McMahon, William F., Riverside, Calif. Grinding-mill screen. 1,675,417; July 3.

McManus, Hugh K., Vicksburg, Miss. Washer and sterilizer. 1,675,655; July 3.

McMullen, John E., Council Bluffs, Iowa. Rail-chair plate. 1,675,504; July 3.

McNeal, Daniel R., Palmyra, N. J., assignor to Andale Engineering Company. Strainer. 1,675,505; July 3.

McNulta, Joseph J. (See Girtanner, A., and McNulta.)

Meany, Daniel N., and E. N. Ellsworth, assignors to Electric Fireplace Manufacturing Company, Chicago, Ill. Electric fireplace. 1,675,418; July 3.

Mefford, Fred E. (See Murphy, Roy E., assignor.)

Meinig, E. Richard Co. (See Meinig, Ernest R., assignor.)

Meinig, Ernst R., Wyomissing, assignor to E. Richard Meinig Co., Inc., Reading, Pa. Warp knit fabric. 1,675,506; July 3.

Meissner, Alexander, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Method and arrangement for generating oscillations by two-anode electron tube. 1,675,367; July 3.

Mengden, Hippolyte F., Houston, Tex. Mop. 1,675,368; July 3.

Meredith, William J., Newton, Iowa. Wheel-angle indicator for automobiles. 1,675,656; July 3.

Merke, Alois, Chicago, Ill. Massage appliance. 1,676,104; July 3.

Merrill, Charles F., assignor to Draper Corporation, Hopedale, Mass. Constructing spinning-ring travelers. 1,676,205; July 3.

Messinger, William, Philadelphia, Pa. Hydraulic punch. 1,675,369; July 3.

Methudy, Carl E., assignor, by mesne assignments, to A. D. Goldman, St. Louis, Mo. Ignition device for gas burners. 1,675,859; July 3.

Methudy, Carl E., assignor, by mesne assignments, to A. D. Goldman, St. Louis, Mo. Automatic igniter for gas stoves and the like. 1,675,899; July 3.

Methudy, Carl E., assignor, by mesne assignments, to A. D. Goldman, St. Louis, Mo. Oven lighter for gas stoves. 1,675,900; July 3.

Meunier, Julien, Troarn, Calvados, France. Tractor-operated stump-uprooting device. 1,676,040; July 3.

Meyerhofer, Albert F., (See Buchner, Max, assignor.)

Michalka, Frank A. (See Michalka, Joseph, F. A. and R. A.)

Michalka, Joseph, F. A., M., and R. A., Cameron, Tex. Stalk cutter. 1,676,105; July 3.

Michalka, Joseph, jr., F. A., and R. A., Cameron, Tex. Stalk cutter. 1,676,106; July 3.

Michalka, Ralph A. (See Michalka, Joseph, F. A., and R. A.)

Mickel, Georg, Lobau, Germany. Sparking plug. 1,675,764; July 3.

Middendorf, David L., assignor to The Federal Glass Company, Columbus, Ohio. Process and apparatus for producing crackled glassware. 1,675,951; July 3.

Middendorf, David L., assignor to The Federal Glass Company, Columbus, Ohio. Process and apparatus for producing crackled glassware. 1,675,952; July 3.

Miehle Printing Press & Manufacturing Company. (See Blaine, Joseph R., assignor.)

Miehle Printing Press & Manufacturing Company. (See Jacobson, Arthur G., assignor.)

Mildren, Lory J. (See Taylor, James S., assignor.)

Miller, Frederick H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal relay. 1,675,370; July 3.

Miller, John E., Huntington, W. Va. Dental forceps. 1,675,815; July 3.

Miller, Philip M., assignor, by mesne assignments, to R. E. H. Incorporated, Brooklyn, N. Y. Demountable tire-carrying rim. 1,675,371; July 3.

Milligan, John F. (See Glass, C. F., Bock, and Milligan.)

Mills, Chester B., assignor to Sperry Gyroscope Company, Brooklyn, N. Y. Searchlight. 1,675,720; July 3.

Milwaukee Stamping Company. (See Mahar, Merton E., assignor.)

Miner, W. H., Inc. (See O'Connor, John F., assignor.)

Minich, Verne E., Scarsdale, assignor to The American Foundry Equipment Company, New York, N. Y. Sand-treating machine. 1,675,721; July 3.

Minton, Gustave M., jr., New York, N. Y. Cap for atomizers. Des. 75,692; July 3.

Minton, Gustave M., jr., New York, N. Y. Perfume atomizer. Des. 75,693; July 3.

Mittag, Albert H., Schenectady, N. Y., assignor to General Electric Company. Radiotelegraphy. 1,675,987; July 3.

Mitts & Merrill. (See Mitts, P. S., and Winston, assignors.)

Mitts, Philip S., and W. J. Winston, assignors to Mitts & Merrill, Saginaw, Mich. Disintegrating machine. 1,675,901; July 3.

Mohr, Hartwig, Brooklyn, N. Y. Swimming device. 1,675,372; July 3.

Mokma, Frederic, Sand Creek, Mich. Windshield wiper. 1,675,816; July 3.

Moller, Edvard M. (See Benedict, H. A., and Moller.)

Moores, Charles H., assignor to Moores & Dunford, Inc., New York, N. Y. Transfer car for moving boxes in warehouses and the like. 1,675,722; July 3.

Moores & Dunford, Inc. (See Moores, Charles H., assignor.)

Morraine Products Company. (See Valentine, Albert H., assignor.)

Morgan, Charles W. (See Lyen, A. C., and Morgan.)

Morgan Construction Company. (See Lummis, Charles W., assignor.)

Morgan, David W. R., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Surface condenser. 1,675,472; July 3.

Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Mining and loading machine. 1,675,723; July 3.

Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Mining and loading apparatus. 1,675,902; July 3.

Morgan, Olive E., executrix. (See Morgan, Edmund C.)

Morrison, Lewis B., Newark, N. J., assignor to American Type Founders Company. Automatic feeder for printing presses. 1,676,152; July 3.

Morrison Stitcher Corporation. (See Allen, Howard G., assignor.)

Morse, Theodore F., assignor to Huntley Manufacturing Co., Silver Creek, N. Y. Separating machine. 1,675,572; July 3.

Moseley, Thomas H., Oklahoma City, and C. E. Droege, Cushing, Okla. Valve mechanism. 1,675,817; July 3.

Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Reel. 1,675,507; July 3.

Mossberg Pressed Steel Corporation. (See Mossberg, Frank, assignor.)

Most, Lucifer J. (See Sheaffer, W. A., and Most.)

Motor Requirements Corporation. (See Pearson, Carl E., assignor.)

Motor Terminals Company. (See Fitch, Benjamin F., assignor.)

Mottlau, August J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric curling iron. 1,675,373; July 3.

Moulton, Lloyd W., and O. C. Kayle, Syracuse, N. Y. Centrifugal babbitting machine. 1,675,657; July 3.

Mueller, Stephen E., and G. M. Rodgers, Moline, Ill. Portable milling machine. 1,675,374; July 3.

Müller, Georg, Berlin-Adlershof, Germany. Buttonhole-sewing machine. 1,675,508; July 3.

Munters, Carl G. (See Von Platen, B. C., and Munters.)

Murnane, Daniel J., San Mateo, Calif. Hinge. 1,675,573; July 3.

Murphy, Roy E., assignor of one-third to F. E. Mefford, Colorado Springs, Colo. Bean harvester. 1,675,903; July 3.

Murray Manufacturing Company, The. (See Howe, James M., assignor.)

Murray, Thomas E. (See Hoffer, Le Roy H., assignor.)

Murray, Thomas E. (See Holmes, Henry S., assignor.)

Mursch, John, Utica, assignor to Buffalo Hammer Mill Corporation, Buffalo, N. Y. Grinding mill. 1,675,658; July 3.

Muth, Friedrich. (See Ballauf, F., Muth, and Schmelzer.)

Myers, Thomas G., assignor to United States Electrical Manufacturing Company, Los Angeles, Calif. Insulating motor windings. 1,675,419; July 3.

Mykins, William K., St. Louis, Mo. Plumber's lead-pipe-bending spring. 1,675,574; July 3.

Naamlooze Vennootschap Philips' Gloeilampenfabrieken. (See Holst, G., Oosterhuis, and Bruijnes, assignors.)

Nagao, Seturo, Tokyo, Japan. Unloading machine. 1,676,041; July 3.

Nasby, Alexander, Gordon, W. Va. Railway tie. 1,676,107; July 3.

National Automatic Tool Company, The. (See Galloway, R. M., and Sterling, assignors.)

National Vulcanized Fibre Company. (See Shoemaker, William M., jr., assignor.)

Navarro, Saturnino G., Habana, Cuba. Plowhandle. 1,675,904; July 3.

Nelson, H. S., et al. (See Stroup, Robert D., assignor.)

Netschert, Frank, New York, N. Y. Combination furniture. 1,675,375; July 3.

Nettheim, Keith S., Manly, near Sydney, New South Wales, Australia. Sport boot and shoe. 1,675,905; July 3.

Neudecker, Louis, et al. (See Kreft, Ewald, assignor.)

Neumann, August, Reppen, Germany, assignor, by mesne assignments, to The Permutit Company, New York, N. Y. Apparatus for softening water. 1,675,860; July 3.

Nevière, Louis A., Tours, France, assignor to American Lighter Corporation, New York, N. Y. Pocket lighter. 1,675,861; July 3.

Neville, Neil, assignor to Federal Phosphorus Company, Birmingham, Ala. Phosphate reducer for bottom chrome dyeing. 1,675,459; July 3.

New Process Multi-Castings Company. (See Wood, John R., assignor.)

Newman, George W., Chicago, Ill., assignor to Wilson-Jones Loose Leaf Company. Ring book and method of assembly. 1,675,509; July 3.

New York Brick Handling Corporation. (See Fuller, Cland E., assignor.)

Nichol, Dorsey E., Washington, D. C. Built-in folding table. 1,675,953; July 3.

Nolan, John R., New York, N. Y. Vending machine. 1,675,510; July 3.

Nolan, John R., New York, N. Y. Coin-controlled mechanism for vending machines. 1,675,511; July 3.

Nordin, Josef A., assignor to Aktiebolaget Stille-Werner, Stockholm, Sweden. Meat-slicing machine. 1,675,659; July 3.

Norton Company. (See Johanson, P., and Webster, assignors.)

Novak, James, Cleveland, Ohio. Convertible table. 1,676,108; July 3.

Noyes, Harry A., Sound Beach, Conn., assignor to Texas Gulf Sulphur Company, Bay City, Tex. Sulphur-bearing article. 1,675,376; July 3.

Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Distortion compensator. 1,675,460. July 3.

Oakes Manufacturing Company, The. (See Lord, Fred W., assignor.)

Oeffner, Abiram A., Mount Union, assignor to The Harbison-Walker Refractories Company, Pittsburgh, Pa. Forming and delivering charges of fictile material. 1,675,906; July 3.

O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,675,660; July 3.

O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,675,661; July 3.

O'Connor, William H., assignor to J. F. Conroy, sr., East Orange, N. J. Rotary cutting head. 1,675,765; July 3.

O'Connor, John P., New York, N. Y. Flying machine. 1,675,988; July 3.

Ogden, John J., Memphis, Tenn. Dentist's forceps. 1,676,042; July 3.

Ohaver, David W., Rockville, Ind. Automobile headlight. 1,675,766; July 3.

Ohio Brass Company, The. (See Bricker, Orrin W., assignor.)

Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone substation circuits. 1,675,423; July 3.

Ohlbaum, Karl, & Son Inc. (See Steiner, Erich F., assignor.)

Oldenbusch, Ernest, Brooklyn, N. Y. Dispensing device. 1,676,109; July 3.

Olsson, Nils G., Aurora, Ill. Roofing plate or shingle. 1,676,043; July 3.

Olt, Henry, New York, N. Y. Receptacle closure. 1,676,044; July 3.

Oneal, Lloyd E., East Orange, N. J., assignor to Chas. Cory & Son, Incorporated, New York, N. Y. Annunciator system. 1,675,989; July 3.

O'Neill, Gonzalo, et al. (See Bennett, James C., assignor.)

Oosterhuis, Ekko. (See Holst, G., Oosterhuis, and Bruijnes.)
Open Hearth Combustion Company. (See Atkinson, James S., assignor.)
Ormsbee, Willard A., Taunton, Mass. Belt clasp. Des. 75,694; July 3.
Otis, Harold A., assignor to Chicago North Shore & Milwaukee Railroad Company, Chicago, Ill. Transporting goods. 1,675,512; July 3.
Pacent, Louis G., Winfield, N. Y. Variable-control device. 1,675,377; July 3.
Page, Charles H., assignor of one-third to L. G. Hoxton and one-third to J. H. Ryalls, Charlottesville, Va. Valve tappet construction. 1,675,954; July 3.
Paidar, Emil J., Company. (See Grimmich, William, assignor.)
Paige, Arthur E., Philadelphia, Pa. Surfacing mechanism. 1,675,862; July 3.
Palmer, Harmon S., Washington, D. C. Concrete building block and making same. 1,676,153; July 3.
Pangborn Corporation. (See Hull, Foster J., assignor.)
Park, Carl P., Lewiston, Me., assignor to U. S. Bobbin & Shuttle Company, Providence, R. I. Jack spool. 1,675,907; July 3.
Parker, Lars, assignor to Quality Hardware & Machine Co., Chicago, Ill. Hydraulic press. 1,675,513; July 3.
Parmelee, Charles L. (See Isom, W., and Parmelee.)
Parmelee, Charles L., Orange, N. J., and E. W. Isom, Winnetka, assignor to Sinclair Refining Company, Chicago, Ill. Cracking oils. 1,675,575; July 3.
Parsons, Philip D., Philadelphia, Pa., assignor to Scott Paper Company. Unloading device for slitter and rewinding machines. 1,675,863; July 3.
Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Box-strap-tightening device. 1,675,420; July 3.
Patterson, Ernest G., Chicago, Ill. Lamp-shade construction. 1,675,514; July 3.
Patterson, Harry R. (See Gilchrist, C. F., and Patterson.)
Paul, William L., Berkeley, Calif., assignor to Deere & Company, Moline, Ill. Hitch device. 1,675,461; July 3.
Payne, Marshall J., assignor to The Payne Valve Corporation, Staunton, Va. Tire valve. 1,675,990; July 3.
Payne Valve Corporation, The. (See Payne, Marshall J., assignor.)
Pearson, Carl E., assignor to Motor Requirements Corporation, Camden, N. J. Gasoline purifier. 1,675,378; July 3.
Pedersen, Christian, Ugledige, near Allersley, Denmark. Suspension device for maps and the like. 1,675,515; July 3.
Peebles, Thomas A., Pittsburgh, assignor to J. M. Hopwood, Dormont, Pa. Apparatus for controlling steam generation. 1,675,818; July 3.
Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for feeding molten glass. 1,675,819; July 3.
Pejchar, Josef, Brooklyn, N. Y. Cuff link. 1,675,379; July 3.
Pekowsky, Louis I., New York, N. Y. Cloth hat. 1,675,864; July 3.
Peperkorn, Heinrich. (See Hartmann, O. H., and Peperkorn.)
Perfect Window Regulator Corporation. (See Goldsmith, B. J., and Koeb, assignors.)
Permutit Company, The. (See Neumann, August, assignor.)
Perry, Frank R., Chicago, Ill. Condenser for automobile engine radiators. 1,676,045; July 3.
Perry, Samuel A., New York, N. Y. Accompaniment harmonica. 1,676,154; July 3.
Perry & Webster, Incorporated. (See Boynton, Vern K., assignor.)
Peruzzi, Mario, assignor to Planters Nut & Chocolate Co., Wilkes-Barre, Pa. Glass jar. Des. 75,695; July 3.
Peterson, John A., assignor to C. J. Turner and J. H. Young, Kansas City, Mo. Vapor moistener. 1,676,110; July 3.
Petro, Howard E., Salt Lake City, Utah. Ore-concentrating apparatus. 1,675,955; July 3.
Pettee, Allen D., Mount Vernon, and C. H. Shaw, Jackson Heights, N. Y. Covering for cables and the like. 1,675,421; July 3.
Petty, John, assignor to Jo Pet, Inc., Lebanon, Pa. Fire-tube boiler. 1,675,724; July 3.
Petty, John, assignor to Jo Pet, Inc., Lebanon, Pa. Soot blower. 1,675,725; July 3.
Petty, John, assignor to Jo Pet, Inc., Lebanon, Pa. Soot blower. 1,675,726; July 3.
Petty, John, assignor to Jo Pet, Inc., Lebanon, Pa. Securing stay rods to plates. 1,675,727; July 3.
Pew, Arthur E., jr., Bryn Mawr, assignor to Sun Oil Company, Philadelphia, Pa. Producing high-viscous lubricating oil and high-grade asphalt from petroleum. 1,675,462; July 3.
Pfeifer, Ferdinand A., assignor of forty-nine per cent to E. Craig, Springfield, Ohio. Circuit breaker and closer. 1,676,155; July 3.
Pfestroff, Ernesto, Porto Alegre, Brazil. Making wooden-soled shoes. 1,675,865; July 3.
Philbrick, Frank B., deceased, Waterville, Me.; H. S. Philbrick, executor, Evanston, Ill., assignor to Waterville Iron Works, Waterville, Me. Paper-pulp shredder. 1,676,048; July 3.
Philbrick, Herbert S., executor. (See Philbrick, Frank B.)
Phillips, Brace A., East Lansdowne, Pa. Steam and hot-air generator. 1,676,046; July 3.
Phillips, Elmer R. (See Kollman, B. H., and Phillips.)
Phillips, Loyd F., St. Louis, Mo. Polishing device. 1,675,662; July 3.
Phillips, Morris G. P., London, England. Machine for cleaning the stems of tobacco leaves. 1,676,047; July 3.
Pierce, Earl F., Winnetka, assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricant compressor. 1,675,424; July 3.
Pierce, Leon, New York, N. Y. Composite penetrator and shell for pikes. 1,675,663; July 3.
Pierce, Paul H., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selective signaling circuits. 1,675,866; July 3.
Pierce, Winslow S., jr., Bayville, N. Y. Antifriction bearing. 1,675,728; July 3.
Pike, Robert D., San Francisco, Calif. Production of wrought iron direct from electrolytic iron. 1,675,867; July 3.
Pisarcik, Andro, Vandergrift, assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Rolling-mill guide. 1,675,820; July 3.
Pitt, Guy L., Rocky Mount, N. C. Road sign. Des. 75,696; July 3.
Pittsburgh Plate Glass Company. (See Evans, Albert E., assignor.)
Pittsburgh Plate Glass Company. (See Showers, Lee, assignor.)
Poland, John, Cascade, assignor of one-half to J. Gorman, Belt, Mont. Battery connecter. 1,675,991; July 3.
Pollack, Daniel. (See Kasdan, N., and Pollack.)
Pollard, Walter S., Philadelphia, Pa. Ball game. 1,675,463; July 3.
Polysius, G. (See Luther, Fritz, assignor.)
Porter, George M., New York, N. Y. Pad holder. 1,675,821; July 3.
Porter, Leslie F., Passaic, N. J., assignor to Bell Telephone Laborntories, Incorporated, New York, N. Y. Telephone system. 1,675,956; July 3.
Post, George B., New York, N. Y. Boat. 1,675,422; July 3.
Potato Waffles, Inc. (See Ruffner, Meyer F., assignor.)
Potomac Glass Company, The. (See Beam, Charles C., assignor.)
Potts, Louis M., Tenafly, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph transmitter. 1,675,823; July 3.
Powell, Clarence H., assignor of one-half to R. J. Burton, Detroit, Mich. Airplane construction 1,676,231; July 3.
Planters Nut & Chocolate Co. (See Peruzzi, Mario, assignor.)
Plotner, James A. (See Tullis, John T., assignor.)
Prichard, George L., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Cracking oils. 1,676,207; July 3.
Pryor, William M., assignor to Southern Manganese Steel Company, St. Louis, Mo. Shredder-type pulverizing hammer. 1,675,464; July 3.
Pund, Fred W., Cincinnati, Ohio. Electric-light-bulb cap. 1,675,380; July 3.
Pushaiski, Stanley, Cleveland, Ohio. Wire-drawing block. 1,675,822; July 3.
Quality Hardware & Machine Co. (See Parker, L., assignor.)
Quinby, George F., Boston, Mass., assignor, by mesne assignments, to K. S. Howard, St. Louis, Mo. Innersole-applying device. Re17,018; July 3.
Quincy Show Case Works. (See Fifer, William A., assignor.)
R. E. H. Incorporated. (See Miller, Philip M., assignor.)
Rader, Earl D., Bedford, assignor to Dexter Folder Company, New York, N. Y. Wire-stitching folding machine. 1,676,156; July 3.
Radinse, Rudolf R., Cleveland, Ohio. Rotary brush. 1,675,616; July 3.
Radinse, Rudolph R., Cleveland, Ohio. Rotary wire brush. 1,675,617; July 3.
Radio Corporation of America. (See Donle, Harold P., assignor.)
Radio Frequency Laboratories, Incorporated. (See Hull, Lewis M., assignor.)
Raschick, Charles T., St. Paul, Minn. Sales-check system. 1,675,908; July 3.
Räth, Curt. (See Bing, A., and Räth.)
Ratliff, Stanley M., Norwood, assignor to The American Tool Works, Cincinnati, Ohio. Traveling drilling machine. 1,676,206; July 3.
Rava, Alexander, New York, N. Y., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Inductively heating the metallic parts of inclostd electrical devices. 1,676,049; July 3.
Rawsthorne, Robert, jr. (See Kinsler, Edward F., assignor.)
Reagan, Maurice E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic hydroelectric station. 1,675,381; July 3.

Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Packing case. 1,675,957; July 3.
Reiber, Edwin H., West Webster, N. Y. Surfacing machine. 1,676,111; July 3.
Reinhardt, Franz C., Paterson, N. J. Shuttle. 1,675,516; July 3.
Reinhardt, Otto K., Jamaica, assignor, by mesne assignments, to Yale Electric Corporation, New York, N. Y. Battery-making machine. 1,675,382; July 3.
Reiss, Elias, & Company. (See Kirchhoff, Ernest, assignor.)
Remington Rand Inc. (See Day, William H., assignor.)
Renie, Jack J., Los Angeles, Calif. Aeroplane toy. Des. 75,697; July 3.
Renz, Frederick, Brooklyn, N. Y. Blank-book-making machine. 1,676,112; July 3.
Replogle, Delbert E., Watertown, assignor to Engineering Specialties Company, Boston, Mass. Cable support. 1,676,208; July 3.
Reuss, Wilhelm, Mannheim, Germany. Welding medium for aluminum. 1,675,664; July 3.
Reynolds, Charles L., Seattle, Wash. Transit concrete-mixer drive means. 1,675,958; July 3.
Reynolds, Thomas A., Los Angeles, Calif. Sucker-rod wrench. 1,675729; July 3.
Rhodus, Thomas, Chicago, Ill. Rheostat. 1,676,050; July 3.
Rice, Barton & Fales, Inc. (See Lodding, Frederick W., assignor.)
Rice, Louis W., assignor to Bernard Rice's Sons, Inc., New York, N. Y. Pitcher or like article. Des. 75,698; July 3.
Rice's, Bernard, Sons, Inc. (See Rice, Louis W., assignor.)
Rich, Minnie D. (See Rich, Sam D. and M. D.)
Rich, Sam D. and M. D., Columbus, Ohio. Headlight attachment. 1,675,767; July 3.
Ricks, Fred. (See Gouldbourn, J., and Ricks.)
Riker, Andrew L., Fairfield, Conn. Windshield. 1,675,909; July 3.
Riker, Andrew L., Fairfield, Conn. Tool for drawing tubular bosses. 1,675,910; July 3.
Riley, Champlain L., North Plainfield, N. J., assignor to Industrial Associates, Incorporated, New York, N. Y. Nebulizer. 1,676,113; July 3.
Ripaults, Limited. (See Bancroft, Frank E., assignor.)
Ritter, Julius, jr., assignor to Hartmann Trunk Company, Racine, Wis. Combined top and front-door lock. 1,675,425; July 3.
Ritz Woller, Oliver C., Chicago, Ill. Step plate. 1,675,665; July 3.
Ritz Woller, Oliver C., Chicago, Ill. Step plate. 1,675,682; July 3.
Roberts, Floyd E., Melbourne, Iowa. Windshield heater. 1,675,911; July 3.
Roberts, Montague H. (See Tolman, R. C., De Baufre, Davis, and Roberts.)
Roberts, Montague H., Englewood, N. J., assignor to Franklin Railway Supply Company, New York, N. Y. Power reverse-gear mechanism. 1,675,576; July 3.
Robinson, Roy H., Chicago, Ill. Tennis racket. 1,676,051; July 3.
Roccaforte, Baldassare N., Houston, Tex. Mirror for barber or beauty-parlor chairs. 1,675,883; July 3.
Rodgers, Guy M. (See Mueller, S. E., and Rodgers.)
Rodgers, James P., assignor to Elliott Company, Pittsburgh, Pa. Tube cleaner. 1,676,157; July 3.
Rodgers, John B., Little Rock, Ark. Gate mechanism. 1,675,824; July 3.
Rodney-Hunt Machine Company. (See Simonds, W. J., and Spear, assignors.)
Roe, William J., Newburgh, N. Y. Propelling and steering means for power speed. 1,675,158; July 3.
Roehrich, Frank N., assignor to W. H. Loud, Jersey City, N. J. Locking mechanism for automobiles. 1,675,465; July 3.
Roessler & Hasslacher Chemical Co. (See Magill, P. L., and Carlisle, assignors.)
Rogers, Joseph E., Mamaroneck, N. Y., assignor to Dayton Scale Company, Dayton, Ohio. Scale and chart therefor. 1,676,052; July 3.
Rogers, Thomas H., et al. (See Baldsiefen, W. D., and Rogers.)
Rorabeck, Claude, Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Conveyer-chain link. 1,676,053; July 3.
Rose, Reed P., Jackson Heights, assignor to General Rubber Company, New York, N. Y. Manufacture of sheet material. 1,675,959; July 3.
Rosenthal, Aaron E., and W. E. Clarin, assignors to Beacon Steel Furniture Co., Chicago, Ill. Folding chair. 1,675,577; July 3.
Ross, Victor G., assignor to Seattle Can Company, Seattle, Wash. Automatic stop mechanism. 1,675,426; July 3.
Roth, Joseph W., New Brunswick, N. J. Sled. 1,676,159; July 3.
Rowell, Ralph K., West Palm Beach, Fla., assignor to Landis Tool Company, Waynesboro, Pa. Automatic cam-grinding machines. 1,675,466; July 3.
Royal Comb Company. (See Holden, Crofton C., assignor.)
Rubber Products Company, The. (See Whisler, Chauncy P., assignor.)
Ruffner, Meyer F., Washington, D. C., assignor to Potato Waffles, Inc., New York, N. Y. Food products and making the same. 1,676,160; July 3.
Rusdell, William J., Wolverhampton, England. Pump for liquids or hydraulic motor. 1,676,114; July 3.
Ryalls, J. H., et al. (See Page, Charles H., assignor.)
Ryan, Alfred, Anniesland, Glasgow, assignor to The Ioco Rubber & Waterproofing Company, Limited, Glasgow, Scotland. Rigid airship. 1,675,427; July 3.
Rychlewski, Frank, Chicago, Ill., assignor, by mesne assignments, to The Gerrard Company, Inc., San Francisco, Calif. Tension device for wire-tying machines. 1,675,730; July 3.
S & W Machine Company. (See Wermes, Frederick J., assignor.)
Sachs, Joseph, Hartford, Conn. Inclosed electric switch and assembling the same. 1,675,467; July 3.
Sachs, Joseph, Hartford, Conn. Inclosed electric switch and assembling the same. 1,675,468; July 3.
Salterini, John B., New York, N. Y. Finial. Des. 75,699; July 3.
Sanitation Corporation, The. (See Koch, Fred, assignor.)
Satterholm, Robert W., Chicago, Ill. Warm-air furnace. 1,676,054; July 3.
Sawyer, Emerson D., Chicago, Ill. Yieldable barrier. 1,675,912; July 3.
Schallhorn, William, Company, The. (See Bernard, William A., assignor.)
Schau, William, Kalamazoo, Mich. Auxiliary heating attachment for furnaces. 1,675,384; July 3.
Schellenger, Newton C., Elkhart, Ind. Jack. 1,676,055; July 3.
Schifko, Ewald J., assignor of one-third to F. Franzen and one-third to L. Hill, Oakland, Calif. Protective apparatus. 1,675,428; July 3.
Schiller, Morgan B., and O. J. Haller, Pittsburgh, Pa., assignor, by mesne assignments, to American Tubular Elevator Company. Tower. 1,676,161; July 3.
Schiller, Rudolf. Brooklyn, N. Y. Arch support. 1,676,162; July 3.
Schindler, Ferdinand, et al. (See Kreft, Ewald, assignor.)
Schlachter, Henry, assignor to Dempster Mill Manufacturing Company, Beatrice, Neb. Double-stroke working head. 1,676,163; July 3.
Schlaegel, Daniel H., Wadena, Minn. Door-operating device. 1,676,164; July 3.
Schlafly, Julius H., assignor, by mesne assignments, to The Berger Manufacturing Company, Canton, Ohio. Trussed beam. 1,675,825; July 3.
Schmelzer, Albert. (See Ballauf, F., Muth, and Schmelzer.)
Schmidt'sche Heissdampf-Gesellschaft m. b. H. (See Hartmann, O. H., and Bleitner, assignors.)
Schmidt'sche Heissdampf-Gesellschaft m. b. H. (See Hartmann, O. H., and Peperkorn, assignors.)
Schnee, Henry E., Chicago, Ill., assignor to American Telephone and Telegraph Company. Reeling device. 1,675,429; July 3.
Schofield, George L., National City, Calif. Antiglare and light-distributing means for vehicle head lamps. 1,675,731; July 3.
Scholl, William M., Chicago, Ill. Matrix for making casts. 1,675,517; July 3.
Scholl, William M., Chicago, Ill. Metatarsal-arch-supporting pad or cushion. 1,675,578; July 3.
Schön, Ludwig, Essen, Germany, and W. Leukert, Leipa, Czechoslovakia, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Alternating-current induction motor. 1,675,960; July 3.
Schönner, Martin. (See Weldinger, C., and Gradl, and Schönner.)
Schrader's, A., Son, Incorporated. (See Farr, Fred D., assignor.)
Schreiner, John A., assignor, by mesne assignments, to Paul W. Koch & Company, Chicago, Ill. Drill or cutter. 1,675,469; July 3.
Schultheiss, John, Baltimore, Md. Pipe cutter. 1,675,386; July 3.
Schwarber, Henry, Weehawken, N. J. Embroidered edging. Des. 75,700; July 3.
Schwarz, Roland S., sr., Huntington, W. Va. Mop. 1,676,115; July 3.
Schweitzer, Heinrich, New York. Wax dental form and making same. 1,675,732; July 3.
Scott, George R. (See Hammett, O. C., and Scott.)
Scott Paper Company. (See Parsons, Philip D., assignor.)
Scougal, De Witt C., Seattle, Wash. Auxiliary vise automatic. 1,675,868; July 3.
Scovill Manufacturing Company. (See McAtree, John L., assignor.)
Seattle Can Company. (See Ross, Victor G., assignor.)
Seifert, John O. (See Bouchery, August, assignor.)
Seng Company, The. (See Dyke, Darrell F., assignor.)
Seng, Raymond P. L., Paris, France. Double-acting latch. 1,675,579; July 3.
Sereff, Peter H., Lima, Ohio. Reenforced supporting member. 1,675,768; July 3.
Severns, Ray W., and R. W. Tiemeyer, Lima, Ohio. Sign. 1,675,580; July 3.
Seymour, Julius H., and T. S. Spear, Bartow, Fla.; said Seymour, assignor to said Spear. Thrust bearing. 1,676,219; July 3.

Seymour, Julius H., and T. S. Spear, Bartow, Fla.; said Seymour assignor to said Spear. Thrust bearing. 1,676,220; July 3.

Seymour, Julius H., and T. S. Spear, Bartow, Fla.; said Seymour assignor to said Spear. Thrust bearing. 1,676,221; July 3.

Shackleton, William, et al. (See Gartner, John H., assignor.)

Shackleton, William. (See Hammond, C. F., and Shackleton.)

Shafer, Lincoln M., Jersey City, N. J., assignor to Tower Manufacturing Co., Inc. Sulphur dyestuff. 1,675,430; July 3.

Shafer, Samuel, jr., assignor to Chain Belt Company, Milwaukee, Wis. Mechanism for timing the operations of concrete-mixing and other machines. 1,675,733; July 3.

Sharp, Donald E., Hamburg, assignor to Spencer Lens Company, Buffalo, N. Y. Light transmitting and reflecting device. 1,675,431; July 3.

Sharples, David T. (See Sharples, Philip M. and D. T.)

Sharples, Philip M. and D. T., assignors to Sharples Separator Company, West Chester, Pa. Cream separator. 1,676,165; July 3.

Sharples Separator Company. (See Sharples, Philip M. and D. T., assignors.)

Shaw, Carroll H. (See Pettee, A. D., and Shaw.)

Sheaffer, W. A., Pen Co. (See Fremon, J. A., and De Haven, assignors.)

Sheaffer, Walter A., Fort Madison, Iowa, and L. J. Most, New York, N. Y.; said Most assignor to said Sheaffer. Pencil. 1,675,826; July 3.

Sheldon, William O., Lakewood, assignor to The Yoder Company, Cleveland, Ohio. Making sheet-metal frames. 1,676,222; July 3.

Sherman, Howard B., assignor to H. B. Sherman Manufacturing Co., Battle Creek, Mich. Drain valve for lawn-sprinkling systems. 1,675,992; July 3.

Sherman, H. B., Manufacturing Co. (See Sherman, Howard B., assignor.)

Sherman, Ralston M., Glastonbury, assignor to Silent Glow Oil Burner Corporation, Hartford, Conn. Vapor burner. 1,676,223; July 3.

Sherry, John C., Wilmington, Calif. Lock. 1,675,581; July 3.

Shlick, Leo, Boston, Mass. Beating engine. 1,675,385; July 3.

Shoe Products, Inc. (See Jones, George A., assignor.)

Shoemaker, William M., jr., Kennett Square, Pa., assignor to National Vulcanized Fibre Company, Wilmington, Del. Making fiber board. 1,675,666; July 3.

Shoemaker, William M., jr., Kennett Square, Pa., assignor to National Vulcanized Fibre Company, Wilmington, Del. Apparatus for making fiber board. 1,675,667; July 3.

Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Composite piston. 1,675,618; July 3.

Showers, Lee, Charlerol, Pa., assignor to Pittsburgh Plate Glass Company. Plate-glass-rolling apparatus. 1,676,056; July 3.

Shrader, Arthur T., New Albany, Ind. Take-down table. 1,675,827; July 3.

Shurts, George J. (See Atkinson, R. W., and Shurts.)

Sibley, Edward L., Bennington, Vt. Making eyelets. 1,675,913; July 3.

Siegmund, Humphreys O., West Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrolyte. 1,675,828; July 3.

Siemens-Schuckertwerke Gesellschaft mit beschrankter Haftung. (See Weinert, Helmuth, assignor.)

Silent Glow Oil Burner Corporation. (See Sherman, Ralston M., assignor.)

Silver, Jesse W., Tacoma, Wash. Propeller for dirigible airship. 1,675,914; July 3.

Silver, Joseph A., New York, N. Y. Railroad-rail fastening. 1,675,993; July 3.

Simmons Company. (See Rusterle, Frank, assignor.)

Simonds, Warren J., and J. G. Spear, assignors to Rodney-Hunt Machine Company, Orange, Mass. Joining wood pieces for making rolls. 1,675,387; July 3.

Simplex Ice and Manufacturing Company. (See Lee, Aubrey M., assignor.)

Sims, James T. (See Stanley, A. M., and Sims.)

Sinclair Refining Company. (See Isom, E. W., and Bell, assignors.)

Sinclair Refining Company. (See Isom, E. W., and Parmalee, assignors.)

Sinclair Refining Company. (See Isom, E. W., and Vobach, assignors.)

Sinclair Refining Company. (See Parmalee, C. L., and Isom, assignors.)

Singer Manufacturing Company, The. (See Clayton, Andrew B., assignors.)

Skelly, James D., et al. (See Gartner, John H., assignor.)

Skinner, Allan D., assignor to Skinner Patent Holding Company, Erie, Pa. Method of and apparatus for controlling power-driven vehicles. 1,675,388; July 3.

Skinner Patent Holding Company. (See Skinner, Allan D., assignor.)

Sklarek, Clifford, assignor to International Spotlight Corporation, Chicago, Ill. Dirigibly-mounted light. 1,675,915; July 3.

Slusser, Carl W., Chicago, Ill. Medical instrument. 1,676,057; July 3.

Smellie, Donald G., Maywood, Ill., assignor to The Hoover Company, North Canton, Ohio. Handle control. 1,676,058; July 3.

Smidth, F. L., & Co. (See Lindhard, Povl T., assignor.)

Smith, Burgess, W., assignor to The Todd Company, Inc., Rochester, N. Y. Protective paper and making the same. 1,675,769; July 3.

Smith, Charles R., Maplewood, N. J. Door-latch mechanism. 1,676,039; July 3.

Smith, Elmer H., Minneapolis, Minn. Torch tip. 1,675,668; July 3.

Smith, Errett G., Washington, D. C. Lavatory fixture. 1,676,116; July 3.

Smith, George W., assignor to Hardsocg Wonder Drill Co., Incorporated, Ottumwa, Iowa. Tool retainer. 1,675,432; July 3.

Smith, Goodwin B., New York, N. Y. Coin-controlled vending machine. 1,675,994; July 3.

Smith, Harry F., assignor to The Gas Research Company, Dayton, Ohio. Heat engine. 1,675,829; July 3.

Smith, Jarvis E., and J. J. Heilbauer, Jamaica, N. Y. Tire-rim clamp. 1,675,869; July 3.

Smith, John H., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser. 1,675,470; July 3.

Smith, John H., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Heat-balance condenser plant. 1,675,471; July 3.

Smith, Wheeler E., Pueblo, Colo. Joiner's clamp. 1,675,389; July 3.

Smolczyk, Eduard. (See Wollin, K., and Smolczyk.)

Snedeker, Grant A. (See Styer, O. S., and Snedeker.)

Snyder, John L., Grandview, Wash. Press. 1,675,669; July 3.

Société à Responsabilité limitée Bonnart & Cie. (See Faure, Charles E., assignor.)

Societe Anonyme Overcau. (See Veglio, Gaetano, assignor.)

Sokolsky, Louis, assignor to A. K. Epstein, Chicago, Ill. Food-producing process and improved product produced thereby. 1,676,166; July 3.

Sorlien, Harold A., Pasadena, Calif. Game. 1,675,619; July 3.

Southern California Gas Company. (See Hamilton, Ferdinand A., assignor.)

Southern Manganese Steel Company. (See Pryor, William M., assignor.)

Spahn, John G., Lyons, Iowa. Lawn edger. 1,675,670; July 3.

Spear, John G. (See Simonds, W. J., and Spear.)

Spear, Thomas S. (See Seymour, J. H., and Spear.)

Speednumat Addressing Machinery, Incorporated. (See Johnson, John E., assignor.)

Spencer Lens Company. (See Sharp, Donald E., assignor.)

Spencer, Louis M., assignor to General Motors Corporation, Detroit, Mich. Thermostatic water valve. 1,675,620; July 3.

Spencer, William W., Kendallville, Ind. Bookholder. 1,675,621; July 3.

Sperry Gyroscope Company. (See Mills, Chester B., assignor.)

Spiliotakaras, Assimakis, and F. L. Taylor, Mobridge, S. Dak. Dispensing container. 1,676,224; July 3.

Spillman, Albert, North Tonawanda, N. Y. Heater for automobiles. Des. 75,701; July 3.

Spillmann, Max, Richfield, and O. H. Dorer, East Orange, N. J., assignors to Worthington Pump and Machinery Corporation, New York, N. Y. High-pressure centrifugal pump. 1,675,830; July 3.

Spinelli, Benjamin, Philadelphia, Pa. Price indicator. 1,676,060; July 3.

Spirella Company, The. (See Bowler, William E., assignor.)

Spitzdorf Electrical Company. (See Joyce, Harold L., assignor.)

Spitzdorf Electrical Company. (See Lang, George L., assignor.)

Sprague, Robert C., Quincy, Mass. Tone-control means. 1,675,831; July 3.

Sprain, Joseph E., assignor to Vickers Machine Works, Smackover, Ark. Safety hook. 1,676,167; July 3.

Standard Neckwear Company. (See Weinstein, Otto, assignor.)

Standard Pressed Steel Co. (See Gade, Harald F., assignor.)

Stanley, Arthur M., Lynn, and J. E. Sims, Quincy, assignors to Stanley Steel Welded Wheel Corporation, Boston, Mass. Welding machine. 1,675,734; July 3.

Stanley Steel Welded Wheel Corporation. (See Stanley, A. M., and Sims, assignors.)

Stanley Works, The. (See Parsons, Stuart W., assignor.)

Stark, Gustaf A., Atwater, Minn. Grave covering and lining device. 1,675,770; July 3.

Starysky, Charles, Marysville, Tex. Packing for oil wells. 1,676,168; July 3.

Starysky, Charles, Wichita Falls, Tex. Pump. 1,675,390; July 3.

Stearns, Henry G., Arapahoe, Nebr. Governor-controlled mechanism for internal-combustion engines. 1,675,995; July 3.

Stein, John A., New York, N. Y., assignor to American Machine & Foundry Company. Belt-tensioning device. 1,675,671; July 3.

Steiner, Erich F., Sonneberg, Germany, assignor to Karl Ohlbaum & Son Inc., New York, N. Y. Voice-producing apparatus for dolls and other toy figures. 1,675,832; July 3.

Stenger, Victor R., Chicago, Ill. Intermittent-movement mechanism. 1,676,117; July 3.

Sterling, Raymond E. (See Galloway, R. M., and Sterling.)

Stirling, Sidney, Los Angeles, Calif. Antimarring means for picture frames. 1,675,771; July 3.

Steuart, Douglas S. S., London, England. Telephone accessory. 1,675,622; July 3.

Steuart, Douglas S. S., London, England. Flexible supporting device. 1,675,672; July 3.

Stewart, John R., Rydal, Pa. Method of and machine for blending fibers. 1,675,916; July 3.

Stewart-Warner Speedometer Corporation. (See Rava, Alexander, assignor.)

Stockbridge, George H., Los Angeles, Calif. Vibration damper. 1,675,591; July 3.

Stöhr, Franz, Essen/Ruhr, Germany. Baking the linings of crucibles. 1,675,735; July 3.

Stone, Irving I., Chicago, Ill. Attachment for printing presses. 1,675,582; July 3.

Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Power lift plow. 1,675,433; July 3.

Strausser, Herbert S. (See Hansen, Augle L., assignor.)

Strittmatter, August, Freiburg, Baden, Germany. Apparatus for the manufacture of artificial-marble slabs. 1,675,833; July 3.

Stroinski, Frank, St. Louis, Mo. Oil-cup-cap holder. 1,675,518; July 3.

Strom, Arthur C. E., Ortega, Fla. Gymnasium apparatus. 1,676,061; July 3.

Strom, Ulrich, et al., executors. (See Bull, Fredrik R.)

Stromberg Motor Devices Co. (See Dienner, John A., assignor.)

Strong, William E. S., assignor to W. P. Deppé, New York, N. Y. Manifold and thermostatic regulating device therefor. 1,675,870; July 3.

Stroup, Robert D., Marfrance, assignor of one-third to H. S. Nelson, Leslie, and one-third to J. B. Laing, Lewisburg, W. Va. Brake mechanism. 1,675,673; July 3.

Studiengesellschaft fuer Wirtschaft u. Industrie m. b. H. (See Weckerle, Ferdinand, assignor.)

Sturgis, Herbert M., Kansas City, Mo., assignor to Sturgis Mop Company. Mop head. 1,675,736; July 3.

Sturgis Mop Company. (See Sturgis, Herbert M., assignor.)

Styer, Oliver S., and G. A. Snedeker, Bridgeport, Conn. Fence post. Des. 75,702; July 3.

Sukert, Philip, Chicago, Ill. Combination cigar-box moistener and cover holder. 1,676,118; July 3.

Sun Oil Company. (See Pew, Arthur E., jr., assignor.)

Superheater Company, The. (See Broido, Benjamin N., assignor.)

Suzuki, Koji. (See Iymori, S., and Suzuki.)

Swanson, Swan J., St. Louis, Mo. Toy. 1,676,062; July 3.

Swift Electric Welder Company. (See Woofter, Herbert A., assignor.)

Symington Company, The. (See Drenning, Percy R., assignor.)

Szarvasy, Imre, Budapest, Hungary. Production of carbon electrodes. 1,675,674; July 3.

Taub, Alex, assignor to General Motors Corporation, Detroit, Mich. Internal-combustion engine. 1,675,623; July 3.

Taylor, Ernest W., Cleveland Heights, Ohio, assignor, by mesne assignments, to Industrial Brownhoist Corporation. Apparatus for removing railroad ballast. 1,676,063; July 3.

Taylor, Frank L. (see Spiliotakaras, A., and Taylor.)

Taylor, Herbert B., Syracuse, N. Y., assignor to General Motors Corporation, Detroit, Mich. Locking device. 1,675,624; July 3.

Taylor Instrument Companies. (See Brown, Henry B., assignor.)

Taylor, James S., assignor of one-half to L. J. Mildren, Ponca City, Okla. Cable clamp. 1,675,996; July 3.

Technicolor Motion Picture Corporation. (See Young, Melvin G., assignor.)

Teeple, Floyd, Muscatine, Iowa. Compressed-air well pump. 1,675,772; July 3.

Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Lock-controlled electric switch. 1,675,737; July 3.

Texas Gulf Sulphur Company. (See Noyes, Harry A., assignor.)

Thomas & Betts Co., The. (See Buchanan, Stephen N., assignor.)

Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Pivot-adjusting means. 1,675,961; July 3.

Thomas, Ivor D., Palmyra, and P. H. Douglas, Cleveland Heights, assignors to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Automatic rope take-up for leveler bars. 1,675,917; July 3.

Thompson, Henry P., Chicago, Ill. Spotlight and mounting therefor. 1,675,519; July 3.

Thompson, Howard A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,675,583; July 3.

Thurston, David W. (See Gass, E. J., and Thurston.)

Tiemeyer, Edward W. (See Severns, R. W., and Tiemeyer.)

Tilden, Bert O., assignor to B. O. T. Mfg. Co., Trenton, N. J. Combined flush tank and cabinet. Des. 75,703; July 3.

Tipil, Frank M., Milwaukee, Wis. Fishline holder. 1,676,119; July 3.

Tissler, Josef, Philadelphia, Pa. Rivet holder. 1,675,773; July 3.

Titcomb, Lee R., Brooklyn, and H. S. Ashmun, New York, N. Y. Nozzle-propelling mechanism and propelling the same. 1,675,738; July 3.

Tittensor, Harry, assignor to A C Spark Plug Company, Flint, Mich. Ford transmission speedometer drive. 1,675,625; July 3.

Todd Company, The. (See Smith, Burgess W., assignor.)

Toledo Scale Company. (See Hem, Halvor O., assignor.)

Toledo Scale Company. (See Marshall, Charles O., assignor.)

Toledo Scale Company. (See Reeves, Orwell C., assignor.)

Toledo Scale Company. (See Thomas, Edward G., assignor.)

Tolman, Richard C., Washington, D. C., W. L. De Baufre, Lincoln, Nebr.; J. W. Davis, Washington, D. C.; and M. H. Roberts, Englewood, N. J., assignors to S. G. Allen, trustee. Liquefaction apparatus. 1,676,225; July 3.

Tompkins, Stonewall, Passaic, N. J. Transmission gearing. 1,675,392; July 3.

Tower Manufacturing Co. (See Shafer, Lincoln M., assignor.)

Transue, Charles, Mount Jewett, Pa. Pressure-retaining valve. 1,676,169; July 3.

Tray Service Company. (See Coleman, Harris C., assignor.)

Trico Products Corporation. (See Folberth, Frederick G. and W. M., assignors.)

Trofimoff, Iwan, Moscow, Russia. One-line brake. 1,675,962; July 3.

Troiel, Arthur E., Berkeley, Calif. Protective armor. 1,676,170; July 3.

Trumpler, William E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,675,393; July 3.

Truscon Steel Company. (See Hewetson, Harold F., assignor.)

Tucker, Alice M., East Orange, N. J. Shoe. 1,675,774; July 3.

Tullis, John T., Dallas, Tex., assignor of one-half to J. A. Plotner, El Dorado, Ark. Crossing signal. 1,675,997; July 3.

Tung-Sol Lamp Works. (See Bohner, Clyde C., assignor.)

Turner, Clyde J., et al. (See Peterson, John A., assignor.)

Tuttle, Arthur S., Sherbourne, N. Y. Radio battery-charging cabinet. 1,675,626. July 3.

Uhrig, John H., Beverly, assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Furnace door. 1,675,739; July 3.

Umbarger, Joseph C., Cedar Grove, La. Apparatus for the treatment of crude oil. 1,675,775; July 3.

Underwood Elliott Fisher Company. (See Waldheim, John, assignor.)

Underwood, Western, Los Angeles, Calif. Capital for lamp-posts. Des. 75,704; July 3.

Underwood, Western, Los Angeles, Calif. Head for lamp-posts. Des. 75,705; July 3.

Underwood, Western, Los Angeles, Calif. Street-light lantern. Des. 75,706; July 3.

Union Special Machine Company. (See Christensen, Norman V., assignor.)

Union Switch & Signal Company, The. (See Ackerly, Donald G., assignor.)

Union Switch & Signal Company, The. (See Failor, Charles W., assignor.)

Union Switch & Signal Company, The. (See Holte, Harold O., assignor.)

Union Switch & Signal Company, The. (See Lockrow, Laurice L., assignor.)

Union Switch & Signal Company, The. (See Thompson, Howard A., assignor.)

Union Switch & Signal Company, The. (See Wallace, Herbert A., assignor.)

United Engineering and Foundry Company. (See Biggert, Florence C., jr., assignor.)

United Metal Hose Company. (See Levitt, Samuel, assignor.)

United Royalties Corporation. (See Humphrey, Ernest N., assignor.)

United Shoe Machinery Corporation. (See Bazzoni, Lewis J., assignor.)

United Shoe Machinery Corporation. (See Gouldbourn, J., and Ricks, assignors.)

United Shoe Machinery Corporation. (See Mackenzie, Fred L., assignor.)

U. S. Bobbin & Shuttle Company. (See Park, Carl P., assignor.)

United States Cast Iron Pipe & Foundry Company. (See Losey, Arthur, assignor.)

United States Cast Iron Pipe & Foundry Company. (See Uhrig, John H., assignor.)
United States Electrical Manufacturing Company. (See Myers, Thomas G., assignor.)
Upington, Walter W., Tacoma, Wash. Razor-blade sharpener. 1,676,209; July 3.
Valentine, Albert H., assignor to Moraine Products Company, Dayton, Ohio. Inserting bearings in bearing recesses. 1,676,171; July 3.
Van Amburgh, Charles, Long Beach, Calif. Fluid pump. 1,675,434; July 3.
Veglio, Gaetano, Levallois-Perret, assignor to Societe Anonyme Overcau, Paris, France. Resilient suspension for motor vehicles. 1,675,963; July 3.
Vennard, William, London, England. Loose-leaf binder. 1,675,394; July 3.
Vibber, John, Breckenridge, Mich. Tractor device. 1,676,120; July 3.
Vickers Machine Works. (See Sprain, Joseph E., assignor.)
Vobach, Arnold C. (See Isom, E. W., and Vobach.)
Voices Incorporated. (See Konoff, Alexander, assignor.)
Volz, Chris L., Detroit, Mich. Radio receiving circuits. 1,675,473; July 3.
Von der Heide, Richard, Schwiebus, Germany. Transforming pieces of curds into cheese by treatment with salts. 1,676,121; July 3.
Von Platen, Baltazar C., and C. G. Munters, Stockholm, Sweden, assignors, by mesne assignments, to Electrolux Servel Corporation. Refrigerator of the absorption type. 1,675,474; July 3.
Vreeland, Charles E., Davenport, Iowa. Closure-operating mechanism. 1,676,064; July 3.
Wadsworth, Arthur W., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase. 1,675,675; July 3.
Wadsworth Electric Manufacturing Company, The. (See Wadsworth, George B., assignor.)
Wadsworth, George B., assignor to The Wadsworth Electric Manufacturing Company, Covington, Ky. Electrical switch. 1,675,435; July 3.
Wadsworth Watch Case Company, The. (See Wadsworth, Arthur W., assignor.)
Wagner Electric Corporation. (See Weichsel, Hans, assignor.)
Waldheim, John, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,675,436; July 3.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Apparatus for holding work webs for typewriting machines. 1,675,740; July 3.
Waldron, Frederick A., Westfield, N. J. Method of and apparatus for shaping golf-club faces and club produced thereby. 1,675,437; July 3.
Wallace, Herbert A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic controlling apparatus. 1,675,584; July 3.
Walsh, James M., assignor to James M. Walsh Co., Milwaukee, Wis. Strap protector. 1,676,085; July 3.
Walsh, James M., Co. (See Walsh, James M., assignor.)
Walsh, Timothy, and H. S. Conver, Philadelphia, Pa. Variable-speed transmitting mechanism. 1,675,438; July 3.
Walters, Rollo F., Detroit, Mich., assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. 1,675,998; July 3.
Walther, Ewald, Durlach, Baden, Germany. Press for the cold extruding of tubes from metal disks. 1,675,676; July 3.
Waring, Olaf L., Long Island City, N. Y. Filling machine. 1,675,741; July 3.
Warner, Daniel W., near Edmonton, Alberta, Canada. Cultivator and weed destroyer. 1,676,172; July 3.
Waterville Iron Works. (See Philbrick, Frank B., assignor.)
Watkins, Irah J., Cincinnati, Ohio, assignor to D. Andrews, Indianapolis, Ind., and J. L. Arnout, Buffalo, N. Y. Automobile steering gear. 1,675,520; July 3.
Waterbury Tool Company, The. (See Francis, Daniel R., assignor.)
Weaver, Carrie L., et al. (See Alferink, William, assignor.)
Weaver, Gallard E., assignor to Weaver Manufacturing Company, Springfield, Ill. Tire spreader. 1,675,521; July 3.
Weaver, Joseph H., et al. (See Alferink, William, assignor.)
Weaver Manufacturing Company. (See Weaver, Gallard E., assignor.)
Webber, George R., Augusta, Me. Combination vending and dispensing case. Des. 75,707; July 3.
Webster, Duane E. (See Johanson, P., and Webster.)
Weckerle, Ferdinand, assignor to Studiengesellschaft fuer Wirtschaft u. Industrie m. b. H., Munich, Germany. Electrode holder for electric furnaces. 1,675,742; July 3.
Weibeler, Joseph N., Belle Plaine, Minn. Fuse plug. 1,676,122; July 3.
Weichsel, Hans, assignor to Wagner Electric Corporation, St. Louis, Mo. Alternating-current motor. 1,675,677; July 3.
Weidinger, Christian, L. Gradl, and M. Schöner, assignors to Bayerische Celluloidwarenfabrik, vorm. Albert Wakker, A.-G., Nuremberg, Germany. Diver toy. 1,675,522; July 3.
Weinert, Helmuth, Dresden-Kotzschenbroda, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, Germany. Arrangement of 6n-pole windings. 1,676,123; July 3.
Weinreich, Christ G., St. Louis, Mo. Device for locating submerged bodies. 1,675,964; July 3.
Weinreich, Christ G., St. Louis, Mo. Device for locating submerged bodies. 1,675,965; July 3.
Weinstein, Otto, assignor to Standard Neckwear Company, Boston, Mass. Necktie and making the same. 1,675,999; July 3.
Weisberg, Louis, Grantwood, N. J., assignor to The Barrett Company. Fractional condensation of mixed vapors. 1,676,232; July 3.
Weismann, Charles, Paris, France, assignor to Junkers, Dessau, Germany. Explosion motor to be utilized under various atmospheric conditions. 1,675,678; July 3.
Welburn, John D., Clayton, Ga. Dirigible headlight. 1,675,475; July 3.
Wellman-Seaver-Morgan Company, The. (See Thomas, I. D., and Douglas, assignors.)
Wendt, Gustav A., Cincinnati, Ohio. Smoker's stand. Des. 75,708; July 3.
Wennerstrom, Malcolm J. (See Gabrielson, O. S., and Wennerstrom.)
Wermes, Frederick J., Norwood, assignor to S & W Machine Company, Cincinnati, Ohio. Beading machine. 1,676,173; July 3.
Werner, Fred L., et al. (See Kreft, Ewald, assignor.)
West, William J., Alder, Wash. Combination tool. 1,675,476; July 3.
Western Electric Company. (See Black, Harold S., assignor.)
Western Electric Company. (See Crandall, Irving B., assignor.)
Western Electric Company. (See Dean, R. S., and Hudson, assignors.)
Western Electric Company. (See Elmen, Gustaf W., assignor.)
Western Electric Company. (See Friis, Harald T., assignor.)
Western Electric Company. (See Fultz, Miles E., assignor.)
Western Electric Company. (See Gabriel, John C., assignor.)
Western Electric Company. (See Harrison, Henry C., assignor.)
Western Electric Company. (See Heising, Raymond A., assignor.)
Western Electric Company. (See Jammer, Jacob S., assignor.)
Western Electric Company. (See Kishpaugh, Arthur W., assignor.)
Western Electric Company. (See Lindridge, Charles D., assignor.)
Western Electric Company. (See Pierce, Paul H., assignor.)
Western Electric Company. (See Potts, Louis M., assignor.)
Western Electric Company. (See Siegmund, Humphreys O., assignor.)
Western Electric Company. (See White, John H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Armstrong, Edwin H., assignor.)
Westinghouse Electric & Manufacturing Company. (See De Camp, Ray E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Edmonds, Warren O., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gano, Harlan S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Herr, Herbert T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kirkpatrick, Thomas P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Miller, Frederick H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Morgan, David W. R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mottlau, August J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Reagan, Maurice E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Smith, John H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Trumpler, William E., assignor.)
Westinghouse Electric & Manufacturing Company. (See White, Harold E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wilson, Joseph R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wise, Allen S., assignor.)
Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Locomotive trailer truck. 1,675,679; July 3.
Wever, Frank M., Anderson, S. C. Acid-phosphate hot-den excavator. 1,675,871; July 3.
Wharton, Edward R. (See McCarthy, Charles T., assignor.)
Whisk Razor Corporation, The. (See Aron, William P., assignor.)
Whisk Razor Corporation, The. (See Gahagan, H. I., and Aron, assignors.)

Whisler, Chauncy P., Kenmore, assignor to The Rubber Products Company, Barberton, Ohio. 1,675,395; July 3.
White, Harold E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal relay. 1,675,396; July 3.
White, Harold E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Magnetic thermal relay. 1,675,680; July 3.
White, John H., Cranford, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Permanent magnet and making the same. 1,675,872; July 3.
White, William C., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge apparatus. 1,675,585; July 3.
White, William C., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge apparatus. 1,675,586; July 3.
Whiteside, Sidney B., New York, N. Y. Ice-cream dipper. 1,675,776; July 3.
Whitman, Philip L., Halifax, Nova Scotia, Canada. Dial attachment for clocks. 1,676,000; July 3.
Wier, Stuart A., Dallas, Tex. Steam-cleaning method and apparatus. Re17,021; July 3.
Wiese, Ernest P., Lincoln, Nebr. Clevis. 1,675,681; July 3.
Wild, Charles H., Baltimore, Md., assignor to Burt Machine Company, Incorporated. Can-labeling-machine pick-up cement heater. 1,675,397; July 3.
Wildman Mfg. Co. (See Howie, Kenneth, assignor.)
Wilkie, Lorne A., Windsor, Ontario, Canada. Flowerpot holder. 1,676,124; July 3.
Willard, James A., Greensboro, N. C. Yarn director for knitting machines. 1,675,627; July 3.
Williamson, Wilbur W., et al. (See Cabrera, Charles T., assignor.)
Wilson-Jones Loose Leaf Company. (See Newman, George W., assignor.)
Wilson, Joseph B., Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company. Governor. 1,675,477; July 3.
Wilson, Scott L., Dinuba, Calif. Bolt. 1,675,777; July 3.
Wilson, Wylie G., Elizabeth, N. J. Reciprocating valve. Re17,022; July 3.
Winston, William J. (See Mitts, P. S., and Winston.)
Winthrop Chemical Company. (See Kropp, Walter, assignor.)
Wirkkala, Oscar A., Deming, Wash. Choker-hook rigging. 1,675,778; July 3.
Wise, Allen S., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Laundry machine. 1,675,398; July 3.
Withered, Eugene R., and J. J. Clark, Framingham, Mass. Hobbyhorse. 1,675,399; July 3.
Witkus, William J., Maspeth, N. Y. Drawing device. 1,676,226; July 3.
Woge, Conrad, New York, N. Y. Kit for sewing outfits or the like. 1,676,066; July 3.
Wolf, Albert, et al. (See Wolf, Howard A., assignor.)
Wolf, Benjamin, et al. (See Wolf, Howard A., assignor.)
Wolf Brothers. (See Wolf, Howard A.)
Wolf, Clarence, et al. (See Wolf, Howard A., assignor.)
Wolf, Edwin, et al. (See Wolf, Howard A., assignor.)
Wolf, George, G. m. b. H. (See Loeck, Günther, assignor.)
Wolf, Howard A., Elkins Park, assignor to E., B., C., L., and A. Wolf, Philadelphia, Pa., copartners trading as Wolf Brothers. Envelope and separable handle therefor. 1,675,439; July 3.
Wolf, Louis, et al. (See Wolf, Howard A., assignor.)
Wolff, Friedrich, Berlin, Germany. Regulating device for gas and air mixing plants, gas-delivery plants, and the like. 1,675,966; July 3.
Wollin, Karl, Berlin-Charlottenburg, and E. Smolczyk, Biesdorf-Sud, near Berlin, Germany. Device for indicating admixtures to gases and liquids. 1,676,125; July 3.
Wood, John R., Hatboro, Pa., assignor to New Process Multi-Castings Company, Newark, N. J. Mold shell. 1,676,199; July 3.
Wood, John R., Hatboro, Pa., assignor to New Process Multi-Castings Company, Newark, N. J. Pouring shell for pipe molds. 1,676,200; July 3.
Wood, John R., Hatboro, Pa., assignor to The New Process Multi-Castings Company Incorporated, Newark, N. J. Molding machine. 1,676,201; July 3.
Woodard, William E., Forest Hills, N. Y. Locomotive auxiliary cylinder-port arrangement. 1,676,067; July 3.
Woofter, Herbert A., Kenton, Ohio, assignor to Swift Electric Welder Company, Detroit, Mich. Switch. 1,675,683; July 3.
Worthington Pump and Machinery Corporation. (See Dorer, Oscar H., assignor.)
Worthington Pump and Machinery Corporation. (See Fleming, Wills M., assignor.)
Worthington Pump and Machinery Corporation. (See Spillman, M., and Dorer, assignors.)
Wright, Charles F., Akron, Ohio, assignor to The Diamond Match Company, New York, N. Y. Mechanism for assembling match strips. 1,675,440; July 3.
Wright Rubber Products Company. (See Healy, Leon J. D., assignor.)
Wright, Sumner B., South Orange, N. J., assignor to American Telephone and Telegraph Company. Measuring balance of electrical networks. 1,675,441; July 3.
Yale Electric Corporation. (See Reinhardt, Otto K., assignor.)
Yarnall, David R., assignor to Yarnall-Waring Company, Philadelphia, Pa. Indicating and recording nonreturn valve. 1,675,523; July 3.
Yarnall-Waring Company. (See Yarnall, David R., assignor.)
Yarrow, Harold E., Glasgow, Scotland. Economizer for water-tube boilers. 1,676,126; July 3.
Yates, Robert P., et al. (See Mason, Charles T., assignor.)
Yoder Company, The. (See Sheldon, William O., assignor.)
Young, Albert H., Victoria, British Columbia, Canada. Music holder. 1,675,834; July 3.
Young, James H., et al. (See Peterson, John A., assignor.)
Young, Melvin G., North Cambridge, assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Method and apparatus for contacting films. 1,675,743; July 3.
Young, Raymond L., assignor to Bemis Bro. Bag Co., St. Louis, Mo. Apparatus for and method of splicing multiply thread. 1,675,400; July 3.
Zajac, Leopold, Milwaukee, Wis. Rotary compressor or motor. 1,675,524; July 3.
Zeitinger, Anthony F., St. Louis, Mo. Inking mechanism. 1,675,442; July 3.
Zitkowski, Emil C., San Fernando, P. I. Comparator. 1,675,967; July 3.
Zubaty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Illuminated instrument panel. 1,675,628; July 3.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 3D DAY OF JULY, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abrasive wheel and making same, Rubber-bonded. P. Johanson and D. E. Webster. 1,676,190; July 3.
Acids, Preparing nitropyridine arsinic. A. Binz and C. Räth. 1,675,402; July 3.
Adapter and plug for cut-outs. W. P. Briggs. 1,675,637; July 3.
Aeroplane. G. A. Lund. 1,675,759; July 3.
Agitator. P. Jubien. 1,675,500; July 3.
Aircraft control. A. L. Fisher. 1,675,928; July 3.
Airplane construction. C. H. Powell. 1,676,231; July 3.
Airship, Rigid. A. Ryan. 1,675,427; July 3.
Alarm: *See*—
Burglar alarm.
Alarm and control device. M. E. Fultz. 1,675,849; July 3.
Alarm device for clocks in signaling systems. J. W. Bryce. 1,676,075; July 3.
Alloy. N. V. Hybinette. 1,675,708; July 3.
Alloy and making same. R. Franks and B. E. Field. 1,675,798; July 3.
Alloy and structure, Heat-resisting. N. V. Hybinette. 1,675,709; July 3.
Amplifying electrical variations. H. C. Baumann. 1,675,874; July 3.
Amusement device. S. P. Ambrose. 1,675,684; July 3.
Anchor, Ground. J. Marrinan. 1,676,197; July 3.
Anchoring device for boats. O. S. Gabrielson and M. J. Wennerstrom. 1,675,930; July 3.
Annunciator system. L. E. Oneal. 1,675,989; July 3.
Antisiphon trap. H. A. Gardner, sr. 1,675,409; July 3.
Arch support. R. Schiller. 1,676,162; July 3.
Armor, Protective. A. E. Troiel. 1,676,170; July 3.
Atomizer, Perfume. G. M. Minton, jr. Des. 75,693; July 3.
Atomizers, Cap for. G. M. Minton, jr. Des. 75,692; July 3.
Audion circuits, Adjusting. L. M. Hull. 1,676,145; July 3.
Automobile bodies, Rumble seat for. J. Andrade. 1,675,685; July 3.
Babbitting machine, Centrifugal. L. W. Moulton and O. C. Kavle. 1,675,657; July 3.
Badge or similar article. M. Chamberlain. Des. 75,677; July 3.
Bag: *See*—
Hat bag.
Balancing machine. W. E. Trumpler. 1,675,393; July 3.
Ballast, Apparatus for removing railroad. E. W. Taylor. 1,676,063; July 3.
Bar: *See*—
Claw bar.
Collapsible bar.
Typographical distributing bar.
Barge, Self-dumping. F. M. Henry. 1,675,607. July 3.
Barrier, Yieldable. E. D. Sawyer. 1,675,912; July 3.
Basin, Catch. F. Koch. 1,675,714; July 3.
Battery: *See*—
Secondary or storage battery.
Storage battery.
Battery cell. H. Csanyi. 1,675,973; July 3.
Battery cell. H. Csanyi. 1,676,097; July 3.
Battery connecter. J. Poland. 1,675,991; July 3.
Battery-making machine. O. K. Reinhardt. 1,675,382; July 3.
Beam, Trussed. J. H. Schlafly. 1,675,825; July 3.
Bearing. F. W. Fritchey. 1,676,181; July 3.
Bearing. C. W. Johnson. 1,675,933; July 3.
Bearing, Adjustable. H. T. Herr. 1,675,490; July 3.
Bearing, Antifriction. W. S. Pierce, jr. 1,675,728; July 3.
Bearing mechanism. J. M. Howe. 1,675,932; July 3.
Bearing, Thrust. J. H. Seymour and T. S. Spear. 1,676,219–21; July 3.
Bearings in bearing recesses, Inserting. A. H. Valentine. 1,676,171; July 3.
Bearings, Preventing overheating of. E. A. M. Alric. 1,675,780; July 3.
Beater. L. Bordwell. 1,676,128; July 3.
Beater-blade support. E. N. Humphrey. 1,676,189; July 3.
Beating engine. L. Shlick. 1,675,385; July 3.
Bed, Collapsible. D. Hanauer. 1,675,411; July 3.
Belt clasp. W. A. Ormsbee. Des. 75,694; July 3.
Belt-tensioning device. J. A. Stein. 1,675,671; July 3.
Bending machine. H. E. Frentzel. 1,676,215; July 3.
Bending machine. F. J. Wermes. 1,676,173; July 3.
Bending spring, Plumber's lead-pipe. W. K. Mykins. 1,675,574; July 3.
Binder, Loose-leaf. W. Vennard. 1,675,394; July 3.
Binder post. A. M. Barrett. 1,675,479; July 3.
Blade. W. P. Aron. 1,676,001; July 3.
Blending fibers, Method of and machine for. J. R. Stewart. 1,675,916; July 3.
Block: *See*—
Paving block.
Wire-drawing block.
Boat. F. M. Henry. 1,675,606; July 3.
Boat. G. R. Post. 1,675,422; July 3.
Boiler: *See*—
Fire-tube boiler.
Steam boiler.
Boilers and boiler feed water, Apparatus for treating. R. E. Coughlan. 1,676,134; July 3.
Boilers, Economizer for water-tube. H. B. Yarrow. 1,676,126; July 3.
Boiling or raising the temperature of water and other liquids, Apparatus for. C. F. Hammond and W. Shackleton. 1,675,347; July 3.
Bolt. S. L. Wilson. 1,675,777; July 3.
Bolted connection for bedstead-corner locks. F. Kusterle. 1,675,564; July 3.
Book and assembly, Ring. G. W. Newman. 1,675,509; July 3.
Bookholder. W. W. Spencer. 1,675,621; July 3.
Book-making machine, Blank-. F. Renz. 1,676,112; July 3.
Boot and shoe, Sport. K. S. Nettheim. 1,675,905; July 3.
Boring machines, Handpiece for tooth-. M. Bauer. 1,675,873; July 3.
Bottle, Water. C. P. Whisler. 1,675,395; July 3.
Box: *See*—
Journal box.
Mail box.
Photograph-enlarging light box.
Powder box.
Tool box.
Box. S. Koff. 1,675,414; July 3.
Box-strap-tightening device. S. W. Parsons. 1,675,420; July 3.
Box support, Outlet-. C. A. Lundberg. 1,675,942; July 3.
Bracelet book. C. Augenstein. 1,675,324; July 3.
Bracelet, Wrist-watch. A. Bulova. 1,676,213; July 3.
Bracket and drop tube, Ice-can. W. W. Johnson. 1,676,089; July 3.
Brake: *See*—
One-line brake.
Brake. W. J. Andres. Re17,015; July 3.
Brake attachment for motor vehicles. J. L. Davis. 1,676,136; July 3.
Brake for hoisting devices and the like. L. Herborn. 1,676,087; July 3.
Brake hanger. G. T. Johnson. 1,675,608; July 3.
Brake mechanism. V. Bendix. 1,675,526; July 3.
Brake mechanism. A. Y. Dodge. 1,675,536; July 3.
Brake mechanism. R. D. Stroup. 1,675,673; July 3.
Brooder, Furnace. F. W. Lord. 1,676,194; July 3.
Brush, Rotary. R. R. Radinse. 1,675,616; July 3.
Brush, Rotary wire. R. R. Radinse. 1,675,617; July 3.
Brush, Timer. C. Day. 1,675,925; July 3.
Bumper, Automobile. O. R. McDonald. 1,675,458; July 3.
Burglar alarm. J. M. Cody. 1,675,878; July 3.
Burner: *See*—
Liquid-fuel burner.
Oil burner.
Solid-fuel burner.
Vapor burner.
Cabinet, Dispensing. W. Fairchild. 1,675,700; July 3.
Cabinet, Radio battery-charging. A. S. Tuttle. 1,675,626; July 3.
Cable clamp. J. S. Taylor. 1,675,996; July 3.
Cable, High-tension. R. W. Atkinson, and G. J. Shurts. 1,675,918; July 3.
Cable support. D. E. Replogle. 1,676,208; July 3.
Cables and the like, Covering for. A. D. Pettee, and C. H. Shaw. 1,675,421; July 3.
Cables, Antioscillating and stress-reducing device for. L. H. Crook. 1,676,006; July 3.
Calendar. W. J. Brooks. 1,675,483; July 3.
Calender doctors, Contrlling means for. F. W. Lodding. 1,675,363; July 3.
Calibration. E. A. Gustafson. 1,675,604; July 3.
Camera focusing attachment. R. Chetteville. 1,675,598; July 3.
Camera fronts, Catch for. C. A. Bornmann. 1,675,529; July 3.
Can opener. F. A. Cuyler. 1,676,135; July 3.

Can opener. E. V. Houghton. 1,675,807; July 3.
Can-opening device. C. Genjack. 1,675,647; July 3.
Candy package. J. E. Liebrich. 1,675,415; July 3.
Cane cutter, Mechanical. T. A. Guild. 1,675,651; July 3.
Car chair. J. A. Duffy. 1,676,010; July 3.
Car for moving boxes in warehouses and the like, Transfer. C. H. Moores. 1,675,722; July 3.
Carbon-dioxide gas, Producing. F. H. Kelliher. 1,675,497; July 3.
Carbon electrodes, Production of. I. Szarvasy. 1,675,674; July 3.
Carbon monoxide in motor exhaust gases, Method and apparatus for reducing. E. J. Lacy. 1,675,611; July 3.
Carbonates, Production of. M. Buchner. 1,675,786; July 3.
Carbureter. W. S. Guthrie. 1,675,344; July 3.
Card-feeding mechanism. J. B. Howe. 1,675,756; July 3.
Case: *See*—
Packing case.
Watchcase.
Casing for fruit-juice extractor. A. C. Gilbert. Des. 75,682; July 3.
Casting pipe and other annular articles centrifugally, Apparatus for. A. Losey. 1,675,716; July 3.
Ceiling plate. W. Grimshaw. 1,676,228; July 3.
Cement heater, Can-labeling-machine pick-up. C. H. Wild. 1,675,397; July 3.
Centering device for use in machining crank shafts, eccentrics, or the like. J. Benz. 1,676,175; July 3.
Chain link, Conveyer-. C. Rornbeck. 1,676,053; July 3.
Chair: *See*—
Folding chair.
Chair. N. N. Brown. 1,676,074; July 3.
Chair and foot rest, Reclining. W. Grimmich. 1,675,547; July 3.
Check system, Sales-. C. T. Raschick. 1,675,908; July 3.
Checking device, Laundry-. J. H. Lynch. 1,675,718; July 3.
Cheese cutter. J. L. Barton. 1,675,745; July 3.
Chest, Grave-decoration. G. S. Gray. Des. 75,684; July 3.
Chute, Sand-blast-reclaiming. F. J. Hull. 1,675,707; July 3.
Cigar-box moistener and cover holder, Combination. P. Sukert. 1,676,118; July 3.
Cigarette machines, Cut-off mechanism for. J. M. Hornaday. 1,675,351; July 3.
Circuit breaker. C. E. Anderson. 1,675,322; July 3.
Circuit breaker. M. S. Hoban. 1,676,143; July 3.
Circuit breaker and closer. F. A. Pfeifer. 1,676,155; July 3.
Circuit-controlling device. A. R. Lewellen. 1,675,614; July 3.
Circuits, Director. C. Gillings. 1,675,544; July 3.
Circuits, High-frequency. G. F. Du Prel. 1,675,882; July 3.
Circuits, Selective signaling. P. H. Pierce. 1,675,866; July 3.
Circuits, Translating. H. S. Black. 1,675,876; July 3.
Clamp: *See*—
Cable clamp.
Joiner's clamp.
Rim clamp.
Clamping device, Piston-ring-. H. S. Graves. 1,675,603; July 3.
Clasp. C. C. Holden. 1,675,806; July 3.
Claw bar. T. Maney. 1,676,149; July 3.
Cleaner: *See*—
Thread cleaner.
Tube cleaner.
Windshield cleaner.
Cleaning the cock connections between mains and service or branch pipes. C. A. Britnell. 1,675,968; July 3.
Clevis. E. P. Wiese. 1,675,681; July 3.
Clincher for wire-stapling machines. H. G. Allen. 1,675,779; July 3.
Clip: *See*—
Sheet-supporting clip.
Clock, Calendar. M. Martini. 1,675,761; July 3.
Clock, Twenty-four-hour. F. A. Helin. 1,676,030; July 3.
Closure-operating mechanism. C. E. Vreeland. 1,676,064; July 3.
Coils, Apparatus for testing. J. F. MacWilliams. 1,676,195; July 3.
Collapsible bar. N. N. Brown. 1,676,073; July 3.
Column support, Steering. W. S. Knudsen. 1,675,610; July 3.
Comb: *See*—
Finger-wave comb.
Comb. E. Lind. 1,676,099; July 3.
Comparator. E. C. Zitkowski. 1,675,967; July 3.
Compensator, Distortion. H. Nyquist. 1,675,460; July 3.
Compressor. E. L. Barnes. 1,675,686; July 3.
Compressor. L. B. Green. 1,675,546; July 3.
Compressor, Air. T. A. Mathews. 1,675,457; July 3.
Compressor, Lubricant. E. W. Davis. 1,675,451; July 3.
Compressor, Lubricant. D. F. Fesler. 1,675,452; July 3.
Compressor, Lubricant. E. F. Pierce. 1,675,424; July 3.
Compressor or motor, Rotary. L. Zajac. 1,675,524; July 3.
Concrete building block and making same. H. S. Palmer. 1,676,153; July 3.
Concrete form. P. M. Crawford. 1,675,749; July 3.
Concrete-mixer drive means, Transit. C. L. Reynolds. 1,675,958; July 3.
Concrete-spreader mold. E. R. Bell. 1,675,443; July 3.
Condenser. J. H. Smith. 1,675,470; July 3.
Condenser for automobile engine radiators. F. R. Perry. 1,676,045; July 3.
Condenser plant, Heat-balance. J. H. Smith. 1,675,471; July 3.
Condenser, Surface. D. W. R. Morgan. 1,675,472; July 3.
Condenser, Variable-capacity electrical. F. E. Bancroft. 1,676,002; July 3.
Conductor-protecting means, Electrical-. G. P. Edmonds. 1,675,408; July 3.
Connecter, Wire. B. Liebowitz. 1,675,857; July 3.
Container, Dispensing. A. Spiliotakaras and F. L. Taylor. 1,676,224; July 3.
Container for barbers' tools, Antiseptic. M. Fascetta. 1,676,012; July 3.
Container for mechanical refrigerators, Sharp-freezing. L. G. Copeman. 1,675,599; July 3.
Container, Glass thread. C. Hammer. 1,676,023; July 3.
Containers for cakes, etc., Making. G. W. Gwinn. 1,675,652; July 3.
Containers, Treatment of. F. Franz. 1,675,541; July 3.
Control device, Variable-. L. G. Pacent. 1,675,377; July 3.
Control for rolling-mill screw downs, Remote. D. R. Francis. 1,676,180; July 3.
Control mechanism. R. E. De Camp. 1,675,333; July 3.
Control mechanism. W. L. Martin. 1,675,615; July 3.
Convertible table. J. Novak. 1,676,108; July 3.
Conveyer. W. McKee. 1,675,948; July 3.
Cooking pot. C. Charlier and A. Errera. 1,675,640; July 3.
Cooler: *See*—
Tuyère cooler.
Cooling work blanks. W. McKee. 1,675,950; July 3.
Coupling: *See*—
Pipe coupling.
Cosmetic-stick holder. N. Kasdan and D. Pollack. 1,675,496; July 3.
Cotton-picking device. N. Lehman. 1,675,501; July 3.
Cover for cooking vessels, Safety. B. A. Krafft. 1,676,146; July 3.
Covering and lining device, Grave. G. A. Stark. 1,675,770; July 3.
Cradle. O. J. Lund. 1,676,100; July 3.
Crate, Folding. J. M. Allen. 1,675,319; July 3.
Cream separator. P. M. and D. T. Sharples. 1,676,165; July 3.
Crossing signal. J. T. Tullis. 1,675,997; July 3.
Crucibles, Baking the linings of. F. Stöhr. 1,675,735; July 3.
Cultivator. J. L. Brack. 1,675,636; July 3.
Cultivator and weed destroyer. D. W. Warner. 1,676,172; July 3.
Curds into cheese by treatment with salts, Transforming pieces of. R. von der Heide. 1,676,121; July 3.
Curling iron, Electric. A. J. Mottlau. 1,675,373; July 3.
Current motor, Alternatiug-. H. Welchsel. 1,675,677; July 3.
Curtain and portière rod. J. H. Boye. Des. 75,675; July 3.
Cutter: *See*—
Cane cutter.
Cheese cutter.
Pipe cutter.
Stalk cutter.
Cutter guard and ledger plate. E. A. Boe. 1,675,634; July 3.
Cutting head, Rotary. W. H. O'Connor. 1,675,765; July 3.
Cycle support. W. S. Harley and A. R. Constantine. 1,675,551; July 3.
Damper. A. Cohn. 1,675,404; July 3.
Damper, Vibration. G. H. Stockbridge. 1,675,391; July 3.
Davenport, Bed. D. F. Dyke. 1,675,883; July 3.
Daybook. H. Hammer. 1,675,887; July 3.
Delivery apparatus. D. M. Brockway. 1,676,072; July 3.
Dental form and making same, Wax. H. Schweitzer. 1,675,732; July 3.
Derrick, Oil-well. A. L. Bowers. 1,675,635; July 3.
Desk, Sorting. S. A. Harrison. 1,675,454; July 3.
Dial attachment for clocks. P. L. Whitman. 1,676,000; July 3.
Dial, Illuminated. W. C. and F. Buchholz. Re17,017; July 3.
Diaper. E. M. Houseknecht. 1,676,144; July 3.
Digging and loading machine, Coal. G. R. Lang. 1,676,097 July 3.
Dipper, Ice-cream. S. B. Whiteside. 1,675,776; July 3.
Direction finder. H. J. J. M. de R. de Bellescize. 1,675,332; July 3.
Direction-indicating signal. H. Goldberg. 1,675,342; July 3.
Dirigibly-mounted light. C. Sklarek. 1,675,915; July 3.
Discharge device, Electric gas-filled glow-. G. Holst, E. Oosterhuis, and J. Bruijnes. 1,675,350; July 3.
Discharge mechanism, Selector-. J. E. Johnson. 1,675,710; July 3.
Discharging and quenching mechanism for furnaces. F. T. Cope. 1,675,795; July 3.

Disintegrating machine. P. S. Mitts and W. J. Winston. 1,675,901; July 3.
Disk wheel. C. S. Ash. 1,675,630; July 3.
Dispenser, Cigarette-package. L. B. Marbury. 1,675,814; July 3.
Dispensing device. E. Oldenbusch. 1,676,109; July 3.
Dispensing noxious materials. W. L. Lewis. 1,675,940; July 3.
Display case or similar article. W. A. Fifer. Des. 75,679; July 3.
Display stand. F. W. Gibson. 1,676,216; July 3.
Dolly. E. Karfiol. Des. 75,689; July 3.
Doll or the like. A. Kwasnicki. 1,676,096; July 3.
Domino and making the same. T. C. Graham. 1,675,891; July 3.
Door. J. Boca. 1,675,633; July 3.
Door closer, Silent. H. J. Lobherz. 1,675,980; July 3.
Door, Furnace. J. H. Uhrig. 1,675,750; July 3.
Door lock, Combined top and front-. J. Ritter, jr. 1,675,425; July 3.
Door-operating device. D. H. Schlaegel. 1,676,164; July 3.
Doors, Peephole for. W. Frankel. 1,676,140; July 3.
Drawing device. W. J. Witkus. 1,676,226; July 3.
Drill: *See*—
Hammer drill.
Drill or cutter. J. A. Schreiner. 1,675,469; July 3.
Drilling machine. H. C. Brewster. 1,676,129; July 3.
Drilling machine, Traveling. S. M. Ratliff. 1,676,206; July 3.
Drilling machines, Reversing mechanism for. R. M. Galloway and R. E. Sterling. 1,675,650; July 3.
Drying apparatus. W. W. Kemp. 1,676,091–2; July 3.
Drying apparatus for rotary kilns. F. Luther. 1,675,717; July 3.
Dyeing. Phosphate reducer for bottom chrome. N. Neville. 1,675,459; July 3.
Dyestuff dyeing cotton yellow, Sulphur. E. Kramer. 1,675,499; July 3.
Dyestuff intermediates. F. Ballauf, F. Muth, and A. Schmelzer. 1,675,478; July 3.
Dyestuffs, Sulphur. E. Kramer. 1,675,498; July 3.
Dyestuffs, Sulphur. L. M. Shafer. 1,675,430; July 3.
Echo and singing suppressor system. W. H. T. Holden. 1,675,412; July 3.
Egg-candling device. R. J. Bellman. 1,675,632; July 3.
Electric control device, Safety. I. E. McCabe. 1,675,897; July 3.
Electric furnace, Shaft-type. T. F. Baily. 1,675,744; July 3.
Electric switch and assembling the same, Inclosed. J. Sachs. 1,675,467–8; July 3.
Electric switch attachment. C. G. Fisher. 1,675,847; July 3.
Electric switch, Lock-controlled. E. L. Teich. 1,675,737; July 3.
Electrical apparatus. L. L. Lockrow. 1,675,567; July 3.
Electrical switch. G. H. Wadsworth. 1,675,435; July 3.
Electrode holder for electric furnaces. F. Weckerle. 1,675,742; July 3.
Electrolyte. H. O. Siegmund. 1,675,828; July 3.
Electron device. H. P. Donle. 1,675,334; July 3.
Electron-discharge apparatus. W. C. White. 1,675,585–6; July 3.
Embroidered edging. H. Schwarber. Des. 75,700; July 3.
Engine: *See*—
Heating engine. Internal-combustion engine.
Heat engine.
Engine construction. A. Andrews. 1,675,629; July 3.
Engines, Intake manifold for internal-combustion. W. G. Heginbottom. 1,675,349; July 3.
Envelope and separable handle therefor. H. A. Wolf. 1,675,439; July 3.
Eraser. T. J. Madigan. 1,675,570; July 3.
Excavator, Acid-phosphate hot-den. F. M. Wever. 1,675,871; July 3.
Extension table. H. C. Hanson. 1,676,025; July 3.
Eyelets, Making. E. L. Sibley. 1,675,913; July 3.
Fabric: *See*—
Warp knit fabric.
Fabric strips from cutting machines, Apparatus for removing. H. F. Maranville. 1,675,984; July 3.
Fastener. F. S. Carr. 1,675,787–92; July 3.
Fastener, Separable. R. F. Walters. 1,675,998; July 3.
Fastening device for belts. C. E. Faure. 1,676,083; July 3.
Fastening means. H. A. Benedict and E. M. Moller. 1,675,688; July 3.
Favor distributor. W. E. Dodge. 1,676,137; July 3.
Feed-water heater, Locomotive-boiler. L. O. Garraway. 1,676,141; July 3.
Feeder for printing presses, Automatic. L. E. Morrison. 1,676,152; July 3.
Feeders, Holddown and register for automatic. L. K. Aldrich. 1,675,525; July 3.
Felt conditioners, Attachment for. W. R. Fowler. 1,675,540; July 3.
Fence post. O. S. Styer and G. A. Snedeker. Des. 75,702; July 3.
Fiber board, Apparatus for making. W. M. Shoemaker, jr. 1,675,667; July 3.
Fiber boards, Making. W. M. Shoemaker, jr. 1,675,666; July 3.
Fictile material, Method of and means for forming and delivering charges of. A. A. Oeffner. 1,675,906; July 3.
Filling machine. O. I. Waring. 1,675,741; July 3.
Film-moving mechanism. G. Lowkrantz. 1,676,037; July 3.
Films, Method and apparatus for contacting. M. G. Young. 1,675,743; July 3.
Filter medium for air filters. A. Jordahl. 1,676,191; July 3.
Filter unit and making same. A. L. Hansen. 1,676,024; July 3.
Filtering material and filtering. R. H. McKee. 1,676,151; July 3.
Fingerprint machine. C. F. Glass, A. C. O. Bock, and J. F. Milligan. 1,676,020; July 3.
Finger ring. D. Liftin. 1,675,715; July 3.
Finger-wave comb. L. Grom. 1,675,754; July 3.
Finial. J. B. Salterini. Des. 75,699; July 3.
Fireplace, Electric. D. N. Meany and E. N. Ellsworth. 1,675,418; July 3.
Fire-tube boiler. J. Petty. 1,675,724; July 3.
Fixture, Lavatory. E. G. Smith. 1,676,116; July 3.
Floor or ceiling plate. W. Macristy. 1,675,983; July 3.
Floor shim. J. A. Bohnsack. 1,675,593; July 3.
Flue pipes in chimneys, Attaching. R. P. Collins. 1,676,133; July 3.
Flying machine. J. P. O'Connor. 1,675,988; July 3.
Folding chair. A. E. Rosenthal and W. E. Clarin. 1,675,577; July 3.
Folding table. W. J. King. 1,675,355; July 3.
Folding table, Built-in. D. E. Nichol. 1,675,953; July 3.
Food-producing process and improved product produced thereby. L. Sokolsky. 1,676,166; July 3.
Food product and improved product produced thereby, Providing a new. A. K. Epstein. 1,676,138; July 3.
Food product and making the same. M. F. Ruffner. 1,676,160; July 3.
Foot and ankle protecting means. W. J. Harvey. 1,675,348; July 3.
Forceps, Dental. J. E. Miller. 1,675,815; July 3.
Forceps, Dentist's. J. J. Ogden. 1,676,042; July 3.
Form for concrete and the like. E. J. Gass and D. W. Thurston. 1,676,184; July 3.
Frame and sash, Metallic window. R. E. Lee. 1,676,193; July 3.
Frame for wardrobe-trunk sections, Reenforcing. M. E. Mahar. 1,675,654; July 3.
Frames, Making sheet-metal. W. O. Sheldon. 1,676,222; July 3.
Fume control, Apparatus for. V. K. Boyton. 1,675,403; July 3.
Furnace: *See*—
Electric furnace. Regenerative furnace.
Grease-melting furnace. Warm-air furnace.
Melting furnace.
Furnace for producing and diluting products of combustion. G. Bluemel. 1,676,070; July 3.
Furniture, Article of. W. J. Bargen. 1,676,174; July 3.
Furniture, Combination. F. Netschert. 1,675,375; July 3.
Fuse plug. J. N. Weibeler. 1,676,122; July 3.
Fuse, Powder time. H. M. Brayton. 1,675,530; July 3.
Game. H. A. Sorlien. 1,675,619; July 3.
Game, Ball. W. S. Pollard. 1,675,463; July 3.
Game device, Adjustable. A. D. Ferry. 1,675,453; July 3.
Game, Instructional musical-harmony card. M. M. Bishop. 1,675,528; July 3.
Gas producer. C. W. Lummis. 1,676,148; July 3.
Gases and liquids, Device for indicating admixtures to. K. Wollin and E. Smolczyk. 1,676,125; July 3.
Gate: *See*—
Railway gate. Safety gate.
Gate mechanism. J. B. Rodgers. 1,675,824; July 3.
Gauge: *See*—
Water gauge. Wheel gauge.
Gear mechanism, Power reverse-. M. H. Roberts. 1,675,576; July 3.
Gear, Variable-pitch. C. C. Bradbury. 1,675,596; July 3.
Gearing, Screw and nut. W. and G. Jennings. 1,675,494; July 3.
Gearing, Transmission. S. Tompkins. 1,675,392; July 3.
Generating oscillations by two-anode electron tube, Method and arrangement for. A. Meissner. 1,675,367; July 3.
Generator: *See*—
Steam and hot-air generator.
Generator regulation, Steam-. A. Doble. 1,675,600; July 3.
Glare shield. F. C. Kueppers. 1,675,936; July 3.
Glass, Apparatus for feeding molten. K. E. Peller. 1,675,819; July 3.
Glass-cutting table. A. E. Evans. 1,676,011; July 3.
Glass jar. M. Perussi. Des. 75,695; July 3.
Glass, Process and apparatus for drawing sheet. G. H. Harvey. 1,676,027; July 3.
Glass-rolling apparatus, Plate-. L. Showers. 1,676,056; July 3.
Glassware, Apparatus for forming. V. O. Cornwell. 1,675,971; July 3.
Glassware, Process and apparatus for producing crackled. D. L. Middendorf. 1,675,951–2; July 3.
Goblet or similar article. C. C. Beam. Des. 75,673–4; July 3.

Golf-club faces and club produced thereby, Method of and apparatus for shaping. F. A. Waldron. 1,675,437; July 3.
Golf game. H. B. Lasting. 1,675,937; July 3.
Golf tee. C. B. Drevitson. 1,675,335; July 3.
Governor. J. B. Wilson. 1,675,477; July 3.
Governor-controlled mechanism for internal-combustion engines. H. G. Stearns. 1,675,995; July 3.
Grease-melting furnace. W. C. Loyd. 1,675,813; July 3.
Greenhouse. T. E. King. 1,675,712; July 3.
Greenhouse. J. K. Macdonald. 1,675,719; July 3.
Grids, Storage-battery. R. S. Dean and W. E. Hudson. 1,675,643; July 3.
Grinder, Reamer. F. A. Litter. 1,675,858; July 3.
Grinder, Sanitary meat. E. W. Knowlton. 1,675,809; July 3.
Grinding machine, Automatic cam-. R. K. Rowell. 1,675,406; July 3.
Grinding mill. J. Mursch. 1,675,658; July 3.
Grinding-mill screen. W. F. McMahon. 1,675,417; July 3.
Gripper mechanism. J. R. Blaine. 1,675,592; July 3.
Gripper mechanism. A. G. Jacobson. 1,675,559; July 3.
Grubbing machine. D. A. Johnson. 1,675,413; July 3.
Guard, Cattle. I. J. Kilburn and J. T. Doyle. 1,675,653; July 3.
Guide for expanding machines, Sheet-feeding. H. F. Hewetson. 1,675,803; July 3.
Gumming machine. E. Conti. 1,676,005; July 3.
Gymnasium apparatus. A. C. E. Strom. 1,676,061; July 3.
Gymnastic appliance. H. I. Hawxhurst. 1,675,552; July 3.
Hair-straightening device. O. Mathews. 1,675,762; July 3.
Hammer drill. F. H. Blanding. 1,675,326; July 3.
Hammer, Shredder-type pulverising. W. M. Pryor. 1,675,464; July 3.
Handle control. D. G. Smellie. 1,676,058; July 3.
Handle for portable incandescent lamps. C. T. McCarthy. 1,675,763; July 3.
Hanger: *See*—
Brake hanger. Picture hanger.
Hardening process, Age-. R. S. Dean and W. E. Hudson. 1,675,644; July 3.
Harmonica, Accompaniment. S. A. Perry. 1,676,154; July 3.
Harvester, Bean. R. E. Murphy. 1,675,903; July 3.
Hat, Cloth. L. I. Pekowsky. 1,675,864; July 3.
Hat bag, Hand. M. L. Grossman and J. N. Lowe. 1,676,229; July 3.
Head lamps, Antiglare and light-distributing means for vehicle. G. L. Schofield. 1,675,731; July 3.
Headlight attachment. S. D. and M. D. Rich. 1,675,767; July 3.
Headlight, Automobile. D. W. Chaver. 1,675,766; July 3.
Headlight, Dirigible. J. D. Welborn. 1,675,475; July 3.
Heat-controlling apparatus. F. E. Harris. 1,675,605; July 3.
Heat engine. H. F. Smith. 1,675,829; July 3.
Heater: *See*—
Cement heater. Windshield heater.
Vehicle heater.
Heater for automobiles. A. Spillman. Des. 75,701; July 3.
Heating attachment for furnaces, Auxiliary. W. Schau. 1,675,884. July 3.
Heating means, Roll-. G. Fox. 1,676,018; July 3.
Heating the metallic parts of inclosed electrical devices, Inductively. A. Rava. 1,676,049; July 3.
Hinge. D. J. Murnane. 1,675,573; July 3.
Hitch device. W. L. Paul. 1,675,461; July 3.
Hobbyhorse. E. R. Witherell and J. J. Clark. 1,675,399; July 3.
Holder. J. O. Howard. 1,676,032; July 3.
Holder, Fishline. F. M. Tipll. 1,676,119; July 3.
Holder, Flowerpot. L. A. Wilkie. 1,676,124; July 3.
Holder, Pad. G. M. Porter. 1,675,821; July 3.
Hook: *See*—
Bracelet hook. Safety hook.
Releasing hook.
Horn, Acoustic. M. Abrahams. 1,675,318; July 3.
Hose cap for fire-department connections, Adjustable. O. L. Downing. 1,676,081; July 3.
Hotbed. W. McKee. 1,675,949; July 3.
House: *See*—
Lamp house.
Housing for light-actuated switches. I. E. McCabe. 1,675,898; July 3.
Humidifier. J. Armstrong. 1,675,782; July 3.
Hydraulic press. L. Parker. 1,675,513; July 3.
Hydrocarbons, Cracking. E. W. Isom and C. L. Parmelee. 1,675,558. July 3.
Hydrocarbons other hydrocarbons which precipitate at low temperature, Separating from fluid. N. O. Backlund. 1,676,069; July 3.
Hydrocyanic acid from formamide, Manufacture of. P. L. Magill and P. J. Carlisle. 1,675,366; July 3.
Hydroelectric station, Automatic. M. E. Reagan. 1,675,881; July 3.
Ice-cream machine and manufacturing and dispensing ice cream, Soda-fountain. M. R. Layman. 1,675,361; July 3.
Ice-scoring machine. A. M. Lee. 1,676,192; July 3.
Igniter for gas stoves and the like, Automatic. C. E. Methudy. 1,675,899; July 3.
Ignition device for gas burners. C. E. Methudy. 1,675,859; July 3.
Incubating apparatus. J. H. Lord. 1,675,895; July 3.
Index or file. W. H. Day. 1,675,331; July 3.
Indicator: *See*—
Liquid-level indicator. Price indicator.
Indicating device, Pressure-. J. H. Gartner. 1,675,410; July 3.
Indicator for automobiles, Wheel-angle. W. J. Meredith. 1,675,656; July 3.
Induction exhauster. C. T. Cabrera. 1,676,078; July 3.
Induction motor, Alternating-current. L. Schön and W. Leukert. 1,675,960; July 3.
Ink, Conditioning printing. L. W. Claybourn. 1,675,695; July 3.
Inking mechanism. A. F. Zeitinger. 1,675,442; July 3.
Inking mechanism for printing presses. I. Carson. 1,675,448; July 3.
Innersole-applying device. G. F. Quinby. Re. 17,018; July 3.
Inserting machine, Fastening-. F. L. Mackenzie. 1,675,569; July 3.
Inserting or seating the outer races of ball bearings, bushings, and the like in machine housings. A. C. Lyen and C. W. Morgan. 1,675,568; July 3.
Instrument, Optometrical. I. Dvorine. 1,675,407; July 3.
Instrument panel. A. Champion. 1,675,639; July 3.
Insulated vessel. C. E. Bultman. 1,676,004; July 3.
Insulating motor windings. T. G. Myers. 1,675,419; July 3.
Insulator. O. D. Babineau. 1,675,589; July 3.
Internal-combustion engine. F. A. Bullington. 1,676,212; July 3.
Internal-combustion engine. J. N. Fuller. 1,675,702; July 3.
Internal-combustion engine. A. Taub. 1,675,623; July 3.
Iron: *See*—
Curling iron. Steaming iron.
Iron direct from electrolytic iron, Production of wrought. R. D. Pike. 1,675,867; July 3.
Jack. H. H. Frost. 1,676,016; July 3.
Jack. N. C. Schellenger. 1,676,055; July 3.
Jar closure. D. Bloom. 1,675,920; July 3.
Joiner's clamp. W. E. Smith. 1,675,389; July 3.
Joint: *See*—
Pipe joint.
Joint-filler strip, Wall-board. M. J. Buchanan. 1,676,076; July 3.
Journal box. M. Christman. 1,675,641; July 3.
Kiln and cooler, Rotary. P. T. Lindbard. 1,675,416; July 3.
Kiln bottom and building kilns. C. E. Fuller. 1,676,182; July 3.
Kit for sewing outfits or the like. C. Woge. 1,676,066; July 3.
Knitting implement for knitting machines. K. Howie. 1,675,557; July 3.
Knitting machine for the manufacture of corsets and belts. E. E. Boudios. 1,675,691; July 3.
Knitting machines, Yarn director for. J. A. Willard. 1,675,627; July 3.
Knitting machines, Yarn guide for. K. Howie. 1,675,556; July 3.
Knotter for binding mowers and straw binders. A. Claas. 1,676,177; July 3.
Lamp and ash tray, Combination floor. J. J. Camyre. Des. 75,676; July 3.
Lamp for motor vehicles, Projector. C. C. Bohner. 1,675,690; July 3.
Lamp house. C. Bouin. 1,675,595; July 3.
Lamp posts, Capital for. W. Underwood. Des. 75,704; July 3.
Lamp posts, Head for. W. Underwood. Des. 75,705; July 3.
Lamp socket, lamp, and adapter therefor, Incandescent-electric-. A. S. Howell. 1,675,554; July 3.
Lamp support for automobile running boards. W. A. Gullette. 1,675,931; July 3.
Lamps, Explosionproof fitting for electric glow. J. Beckmann. 1,675,887; July 3.
Lantern, Street-light. W. Underwood. Des. 75,706; July 3.
Latch, Cylinder door. D. Bell. 1,675,591; July 3.
Latch, Double-acting. R. P. L. Seng. 1,675,579; July 3.
Latch mechanism, Door-. C. R. Smith. 1,676,059; July 3.
Laundry machine. A. S. Wise. 1,675,398; July 3.
Lawn edger. J. G. Spahn. 1,675,670; July 3.
Light: *See*—
Dirigibly-mounted light.
Light. H. C. Burdt. 1,675,877; July 3.
Light-bulb cap, Electric-. F. W. Pund. 1,675,880; July 3.
Light-diffusing fixture. E. B. Gillinder. Des. 75,683; July 3.
Light transmitting and reflecting device. D. E. Sharp. 1,675,431; July 3.
Lighter for gas stoves, Oven. C. E. Methudy. 1,675,900; July 3.

Lighter, Pocket. L. A. Neviére. 1,675,861; July 3.
Lightning or surge arrester. L. C. Grant. 1,675,649; July 3.
Link, Cuff. J. Pejchar. 1,675,379; July 3.
Lip stick. J. L. McAtree. 1,675,365; July 3.
Liquefaction apparatus. R. C. Tolman, W. L. De Baufre, J. W. Davis, and M. H. Roberts. 1,676,225; July 3.
Liquid-fuel burner. H. A. Davis. 1,676,080; July 3.
Liquid-level indicator. J. A. Dienner. 1,675,698; July 3.
Locating submerged bodies, Device for. C. G. Weinreich. 1,675,964–5; July 3.
Lock: *See*—
Door lock.
Lock. A. Bouchery. 1,675,594; July 3.
Lock. J. C. Sherry. 1,675,581; July 3.
Locking device. H. B. Taylor. 1,675,624; July 3.
Locking device, Safety. J. Fecher. 1,676,014; July 3.
Locking mechanism for automobiles. F. N. Rochrich. 1,675,465; July 3.
Locomotive auxiliary cylinder-port arrangement. W. E. Woodard. 1,676,067; July 3.
Locomotive support, Auxiliary. R. J. McCarty, jr. 1,675,456; July 3.
Loom for weaving tufted pile fabrics and apparatus for use therewith. F. W. Austin. 1,675,836; July 3.
Loom, Pile-fabric. H. Mason. 1,676,039; July 3.
Looms, Feeler mechanism for. O. C. Hammett and G. R. Scott. 1,675,549; July 3.
Looms, Picker mechanism for. C. D. Brown. 1,676,214; July 3.
Loud speaker. F. O. Farwell. Re17,024; July 3.
Lubricating and sealing system for rotary compressors. C. T. Mason. 1,676,103; July 3.
Lubricating means. R. J. Gits. 1,676,086; July 3.
Lubricating means for loose pulleys and the like. H. F. Gade. 1,675,703; July 3.
Machine for cleaning the stems of tobacco leaves. M. G. P. Phillips. 1,676,047; July 3.
Machine for cutting off and skiving stock. T. A. Beaney. 1,675,875; July 3.
Machine for labeling circular articles. W. B. Bronander. 1,675,692; July 3.
Machine for making match books. J. C. Donnelly. 1,676,009; July 3.
Machine for operating upon boots and shoes. J. Gouldbourn and F. Ricks. 1,675,753; July 3.
Machine for severing wire fabric. W. E. Bowler. 1,675,747; July 3.
Machine for turning heels. N. L. Gulliford. 1,676,218; July 3.
Machine, Shingle-making. H. A. Cumfer. 1,675,533; July 3.
Magnet and making the same, Permanent. J. H. White. 1,675,872; July 3.
Magnetic material. G. W. Elmen. 1,675,884; July 3.
Mail box. G. de Maziroff. 1,676,008; July 3.
Mandrel. M. B. Grout. 1,675,489; July 3.
Manicure implement. H. C. Bates. Des. 75,672; July 3.
Manifold and thermostatic regulating device therefor. W. E. S. Strong. 1,675,870; July 3.
Marble slabs, Apparatus for the manufacture of artificial. A. Strittmatter. 1,675,833; July 3.
Massage appliance. A. Merke. 1,676,104; July 3.
Match strips, Mechanism for assembling. C. F. Wright. 1,675,440; July 3.
Matrix for making casts. W. M. Schell. 1,675,517; July 3.
Mats, Apparatus for forming rope. L. A. Denney. 1,675,881; July 3.
Measuring balance of electrical networks. S. B. Wright. 1,675,441; July 3.
Measuring the frequency of the pulse, Mechanism for. R. Goldschmidt. 1,675,790–800; July 3.
Medical instrument. C. W. Slusser. 1,676,057; July 3.
Melting furnace. C. E. Frazier. 1,675,542; July 3.
Meter-operating means. G. Babcock. 1,675,919; July 3.
Mill: *See*—
Grinding mill. Strip mill.
Mill guide, Rolling-. A. Pisarcik. 1,675,820; July 3.
Milling machine, Portable. S. E. Mueller and G. M. Rodgers. 1,675,374; July 3.
Mining and loading apparatus. E. C. Morgan. 1,675,902; July 3.
Mining and loading machine. E. C. Morgan. 1,675,723; July 3.
Mirror for barber or beauty-parlor chairs, B. N. Roccaforte. 1,675,383; July 3.
Mitering and cutting machine. J. Klohe. 1,675,563; July 3.
Mixing machine. L. W. Claybourn. 1,675,694; July 3.
Mold: *See*—
Concrete-spreader mold.
Mold shell. J. R. Wood. 1,676,199; July 3.
Molds, Pouring shell for pipe. J. R. Wood. 1,676,200; July 3.
Molding machine. J. R. Wood. 1,676,201; July 3.
Mop. J. W. Doty. 1,675,601; July 3.
Mop. W. Evans. 1,675,699; July 3.
Mop. H. F. Mengden. 1,675,368; July 3.
Mop. R. S. Schwartz, sr. 1,676,115; July 3.
Mop head. H. M. Sturgis. 1,675,736; July 3.
Motor: *See*—
Current motor. Rotary motor.
Induction motor.
Motor-control system. T. P. Kirkpatrick. 1,675,356; July 3.
Motor starting switch. A. C. Bunker. 1,676,077; July 3.
Motor to be utilized under various atmospheric conditions, Explosion. C. Weismann. 1,675,678; July 3.
Motors, Protective device for compensated asynchronous. F. Kade. 1,675,495; July 3.
Mounting electrical fittings. S. N. Buchanan. 1,675,921; July 3.
Movement mechanism, Intermittent-. V. R. Stenger. 1,676,117; July 3.
Mowing machine. P. Holmes. 1,676,088; July 3.
Music holder. A. H. Young. 1,675,834; July 3.
Nebulizer. C. L. Riley. 1,676,113; July 3.
Necktie. H. Leoni. 1,675,758; July 3.
Necktie and making the same. O. Weinstein. 1,675,999; July 3.
Necktie rack. I. E. Burt. 1,675,922; July 3.
Nib for abrading machines, Abrading. F. J. Hohnhorst. 1,675,804; July 3.
Nozzle. H. W. A. Lehnert. 1,676,035; July 3.
Nozzle-propelling mechanism and propelling the same. L. R. Titcomb and H. S. Ashmun. 1,675,738; July 3.
Nut, Rim. A. E. Bronson. 1,675,597; July 3.
Oil and high-grade asphalt from petroleum, Producing high-viscous lubricating. A. E. Pew. 1,675,462; July 3.
Oil, Apparatus for the treatment for crude. J. C. Umbarger. 1,675,775; July 3.
Oil burner. G. B. Dahl. 1,675,842–3; July 3.
Oil composition and retardment developing of rancidity therein. W. D. Baldsiefen and T. H. Rogers. 1,675,631; July 3.
Oil-cup-cap holder. F. Stroinski. 1,675,518; July 3.
Oil, Making solvent. S. Iymori. 1,675,977; July 3.
Oils, Cracking. C. L. Parmelee and E. W. Isom. 1,675,575; July 3.
Oils, Cracking. G. L. Prichard. 1,676,207; July 3.
Oils, Treating. H. C. Kirk. 1,676,230; July 3.
One-line brake. I. Trofimoff. 1,675,962; July 3.
Optical apparatus for examining cavities and tubes in the body. G. Loeck. 1,675,364; July 3.
Ore-concentrating apparatus. H. E. Petro. 1,675,955; July 3.
Ornament and traffic signal, Combined radiator-cap. R. Fisher. Des. 75,680; July 3.
Ornament, Radiator-cap. E. W. Faucher and H. W. Dills. Des. 75,678; July 3.
Oven, Bakehouse. C. Mairich. 1,675,943; July 3.
Oven, Coking retort. J. Becker. 1,675,687; July 3.
Packing. A. W. Chesterton. 1,675,923; July 3.
Packing case. O. C. Reeves. 1,675,957; July 3.
Packing for oil wells. C. Starysky. 1,676,168; July 3.
Pad or cushion, Metatarsal-arch-supporting. W. M. Scholl. 1,675,578; July 3.
Padding and sizing machine for silk or cotton fabric. J. Laterra. 1,675,810; July 3.
Panel, Illuminated instrument. J. Zubaty. 1,675,628; July 3.
Paper and making the same, Protective. B. W. Smith. 1,675,769; July 3.
Paper clip or similar article. W. Lampl. Des. 75,691; July 3.
Paving block. L. J. D. Healy. Re17,020; July 3.
Pen desk stand, Fountain-. J. A. Fremon and A. S. De Haven. 1,675,543; July 3.
Pencil. W. A. Sheaffer and L. J. Most. 1,675,826; July 3.
Penetrator and shell for piles, Composite. L. Pierce. 1,675,663; July 3.
Pharmaceutical compound. W. Kropp. 1,675,500; July 3.
Phonograph. C. K. Lyons. 1,676,101; July 3.
Phonograph-record-rotating mechanism. A. R. Davidson. 1,675,697; July 3.
Photograph-enlarging light box. C. L. Beal. 1,675,783; July 3.
Photographic device. A. S. Howell. 1,675,555; July 3.
Photographic reproductions, Apparatus for making. E. F. Kinzler. 1,676,033; July 3.
Picture frames, Antimarring means for. S. Sterling. 1,675,771; July 3.
Picture hanger. A. Campos. 1,676,131; July 3.
Pipe: *See*—
Tobacco pipe.
Pipe coupling. S. Levitt. 1,676,036; July 3.
Pipe cutter. J. Schultheiss. 1,675,386; July 3.
Pipe joint. C. J. Kliss. 1,675,808; July 3.
Pipe wrench. P. Armstrong. 1,676,210; July 3.
Pipes, Apparatus for joining. R. N. Broido. 1,675,329; July 3.
Piston, Composite. C. R. Short. 1,675,618; July 3.
Pitcher or like article. L. W. Rice. Des. 75,698; July 3.
Pivot-adjusting means. E. G. Thomas. 1,675,961; July 3.
Planter and potato digger, Combined. J. Doroski. 1,676,233; July 3.
Plastic, Manufacture of decorative. J. H. Clewell. 1,675,642; July 3.
Plate, Rail-chair. J. E. McMullen. 1,675,504; July 3.
Plowhandle. S. G. Navarro. 1,675,904; July 3.
Plow, Power lift. C. G. Strandlund. 1,675,433; July 3.

Plug and lamp socket, Safety. L. Kellner. 1,675,353; July 3.
Plug, Sparking. G. Mickel. 1,675,764; July 3.
Polishing device. L. F. Phillips. 1,675,662; July 3.
Portfolio. J. D. Douglas. 1,675,406; July 3.
Post: *See*—
Binder post.
Pot: *See*—
Cooking pot.
Powder box. J. A. Clarke. 1,676,132; July 3.
Powder, Making leaden. C. A. Hall. 1,675,345; July 3.
Preparation, Skin. D. Brandon. 1,675,846; July 3.
Press: *See*—
Hydraulic press. Sealing press.
Press. F. Blando. 1,675,444–5; July 3.
Press. J. L. Snyder. 1,675,669; July 3.
Press for drying and ironing wearing linen. L. Flori. 1,675,929; July 3.
Press for shaping covers of teapots and the like. A. Handley. 1,675,550; July 3.
Press for the cold extruding of tubes from metal disks. E. Walther. 1,675,676; July 3.
Price indicator. B. Spinelli. 1,676,060; July 3.
Printing machine, Automatic. F. R. Bull. 1,675,969; July 3.
Printing or print-receiving elements or the like, Holding and supporting device for. W. C. Huebner. 1,675,493; July 3.
Printing presses, Attachment for. I. I. Stone. 1,675,582; July 3.
Propeller and a rotor, Combined. J. C. Bennett. 1,675,527; July 3.
Propeller for dirigible airships. J. W. Silver. 1,675,914; July 3.
Propelling and steering means for power speed boats. W. J. Roe. 1,676,158; July 3.
Protective apparatus. E. J. Schiffke. 1,675,428; July 3.
Pump. G. C. Martin. 1,675,945; July 3.
Pump. C. Starysky. 1,675,390; July 3.
Pump, Compressed-air well. F. Teeple. 1,675,772; July 3.
Pump, Electrically-heated dispensing. C. P. Biggs. 1,675,689; July 3.
Pump, Fluid. C. Van Amburgh. 1,675,434; July 3.
Pump for liquids or hydraulic motor. W. J. Rusdell. 1,676,114; July 3.
Pump, High-pressure centrifugal. M. Spillman and O. H. Dorer. 1,675,830; July 3.
Pump, Liquid. M. W. Dole. 1,675,405; July 3.
Pump-modifying mechanism for fuel-feeding devices. F. B. MacLaren. 1,676,038; July 3.
Pump, Waterworks auxiliary. O. H. Dorer. 1,675,845; July 3.
Pumps, Recording and sales-check mechanism for fluid-dispensing. A. R. Mason and O. C. Failing. 1,676,198; July 3.
Punch, Hydraulic. W. Messinger. 1,675,369; July 3.
Purifier, Gasoline. C. E. Pearson. 1,675,378; July 3.
Quilter. L. E. Kelley. 1,675,609; July 3.
Rack: *See*—
Necktie rack.
Radiator. J. M. Fedders. 1,675,796; July 3.
Radio apparatus, Indicating means for. G. L. Lang. 1,675,360; July 3.
Radio metering system. E. E. Clement. Re17,023; July 3.
Radio receiving circuits. C. L. Volz. 1,675,473; July 3.
Radiotelegraphy. A. H. Mittag. 1,675,987; July 3.
Radiotransmission. R. A. Heising. 1,675,888; July 3.
Rail bond. F. P. Dahlstrom and C. L. Larson. 1,675,750; July 3.
Railroad-rail fastening. J. A. Silver. 1,675,993; July 3.
Railway booster. F. W. Martin. 1,675,571; July 3.
Railway gate, Automatic. J. R. Burress. 1,676,227; July 3.
Railway tie. A. Nasby. 1,676,107; July 3.
Rat trap. C. L. Cessna. 1,675,532; July 3.
Razor. H. I. Gahagan and W. P. Aron. 1,675,487; July 3.
Razor, Electric. J. C. Holcomb. 1,675,805; July 3.
Razor, Safety. G. D. del Castillo. 1,675,793; July 3.
Razors, Attachment for. J. N. Garfunkle. 1,676,183; July 3.
Receptacle closure. H. Olt. 1,676,044; July 3.
Receptacle, Printer's sheet. C. Korzenborn. 1,676,095; July 3.
Record stop. E. S. Geer. 1,675,852; July 3.
Reel. F. Mossberg. 1,675,507; July 3.
Reeling device. H. E. Schnee. 1,675,429; July 3.
Refrigerating apparatus. G. Bayer. 1,676,068; July 3.
Refrigerating system. C. F. Hall and F. W. Lee. Re17,019; July 3.
Refrigeration, System of. P. E. Haynes. 1,675,455; July 3.
Refrigerator of the absorption type. B. C. Von Platen and C. G. Munters. 1,675,474; July 3.
Regenerative furnace, Reversible. J. S. Atkinson. 1,675,588; July 3.
Register and ventilator. S. Hart. 1,675,854; July 3.
Regulating apparatus. G. W. Kuntney and C. W. Bristol. 1,675,359; July 3.
Regulating apparatus for operating from a distance devices for releasing projectiles from aircraft. R. Alkan and G. Lesourd. 1,675,835; July 3.
Regulating device for gas and air mixing plants, gas-delivery plants and the like. F. Wolff. 1,675,966; July 3.
Regulator: *See*—
Thermal regulator.
Relay, Magnetic thermal. H. E. White. 1,675,680; July 3.
Relay system. W. O. Edmonds. 1,675,336; July 3.
Relay, Thermal. F. H. Miller. 1,675,370; July 3.
Relay, Thermal. H. E. White. 1,675,396; July 3.
Releasing hook. A. W. Lyda. 1,675,896; July 3.
Renovator, Necktie. J. H. Jackson. 1,675,757; July 3.
Reproducer, Sound. T. Graham. 1,675,343; July 3.
Rheostat. T. Rhodus. 1,676,050; July 3.
Rigging, Choker-hook. O. A. Wirkkala. 1,675,778; July 3.
Rigging, Draft. P. R. Dreuning. 1,676,178; July 3.
Rim clamp, Tire-. J. E. Smith and J. J. Herlbauer. 1,675,869; July 3.
Rim, Demountable tire-carrying. P. M. Miller. 1,675,371; July 3.
Rim remover. J. B. Law. 1,675,938; July 3.
Ring: *See*—
Finger ring.
Rivet holder. J. Tissler. 1,675,773; July 3.
Rods to plates, Securing stay. J. Petty. 1,675,727; July 3.
Roofing plate or shingle. N. G. Olsson. 1,676,043; July 3.
Rotary motor. I. Cavazos. 1,675,693; July 3.
Rug or similar article. L. S. Henderson. Des. 75,686; July 3.
Safety gate, Railway-crossing. M. Brown and J. Green. 1,675,447; July 3.
Safety hook. J. E. Sprain. 1,676,167; July 3.
Sand-treating machine. V. E. Minich. 1,675,721; July 3.
Sausage casing. R. Ettlinger. 1,676,082; July 3.
Saw. W. H. Bath. 1,675,480; July 3.
Saw. M. S. Lee. 1,675,565; July 3.
Saw-filing guide. J. A. Hugus. 1,676,188; July 3.
Saw set. R. R. Faulconer and W. E. Faulconer. 1,676,013; July 3.
Scale and chart therefor. J. E. Rogers. 1,676,052; July 3.
Scale, Coin-operated weighing. H. O. Hem. 1,675,975; July 3.
Scale mechanism, Weighing-. C. O. Marshall. 1,675,944; July 3.
Scale, Weighing. H. O. Hem. 1,675,976; July 3.
Screen: *See*—
Grinding-mill screen.
Screen for paper making. I. L. Laird. 1,675,612–13; July 3.
Screen for telephones. C. Fischer. 1,675,846; July 3.
Seal. B. Borland. 1,675,327–8; July 3.
Sealing press. C. C. Gibson. 1,676,017; July 3.
Searchlight. C. B. Mills. 1,675,720; July 3.
Secondary or storage battery. C. Ambruster. 1,675,321; July 3.
Seeding machine. C. E. Brower and C. N. Hines. 1,676,130; July 3.
Sensitized screen and making same. G. I. Keel. 1,675,561; July 3.
Separating machine. T. F. Morse. 1,675,572; July 3.
Separator: *See*—
Cream separator. Vacuum air separator.
Separators, Control apparatus for centrifugal. F. W. McEntire. 1,675,947; July 3.
Sewing machine, Buttonhole-. G. Müller. 1,675,508; July 3.
Sewing machine, Filled-bag-. N. V. Christensen. 1,675,450; July 3.
Sewing machines, Presser mechanism for. A. B. Clayton. 1,675,696; July 3.
Shade construction, Lamp. E. G. Patterson. 1,675,514; July 3.
Sharpener, Razor-blade. W. W. Upington. 1,676,209; July 3.
Sharpening and facet-cutting machine, Graver. J. W. Lees. 1,675,981; July 3.
Sheet material, Manufacture of. R. P. Rose. 1,675,959; July 3.
Sheet-supporting clip. E. B. Henderson. 1,675,755; July 3.
Ship, Pneumatically-driven. J. H. Mawby. 1,676,150; July 3.
Shock absorber. R. M. Lovejoy. 1,676,147; July 3.
Shock absorber, Hydraulic. C. W. Manzel. 1,675,760; July 3.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,675,660–1; July 3.
Shoe. T. J. Fitz Harris. Des. 75,681; July 3.
Shoe. G. A. Jones. 1,675,711; July 3.
Shoe. A. M. Tucker. 1,675,774; July 3.
Shoes, Making wooden-soled. E. Pfestroff. 1,675,865; July 3.
Shredder, Paper-pulp. F. B. Philbrick. 1,676,048; July 3.
Shuttle. F. C. Reinhardt. 1,675,516; July 3.
Sign. R. W. Saverns and E. W. Tiemeyer. 1,675,580; July 3.
Sign, Advertising. B. H. Kollman and E. R. Phillips. 1,675,857; July 3.

Sign, Electric. S. Gatkowski. 1,675,851; July 3.
Sign, Road. G. L. Pitt. Des. 75,696; July 3.
Signal: *See*—
Crossing signal. Direction-indicating signal.
Signal apparatus. F. Klein. 1,675,713; July 3.
Signaling system, Electric wave. A. W. Kishpaugh. 1,675,889; July 3.
Signaling system, Wave. E. H. Armstrong. 1,675,323; July 3.
Silk, Manufacture of artificial. H. P. Bassett. 1,676,003; July 3.
Siphon, Pressure. C. A. Davis. 1,675,534; July 3.
Six-pole windings, Arrangement of. H. Weinert. 1,676,123; July 3.
Slaughtering device. E. Kreft. 1,675,856; July 3.
Sled. J. W. Roth. 1,676,159; July 3.
Slicing machine, Meat-. J. A. Nordin. 1,675,659; July 3.
Smoker's stand. G. A. Wendt. Des. 75,708; July 3.
Socket, Switch. G. M. Condit. 1,676,079; July 3.
Sodium hydrosulphide, Making. H. Howard. 1,675,491; July 3.
Softening water, Apparatus for. A. Neumann. 1,675,860; July 3.
Soldering irons, Combined holder and automatic circuit breaker for electric. W. Alferink. 1,675,401; July 3.
Solid-fuel burner. C. H. Hall and W. Lloyd. 1,675,548; July 3.
Soot blower. J. Petty. 1,675,725–6; July 3.
Soot-removing device. A. Girtanner and J. J. McNulta. 1,676,019; July 3.
Sound energy, System for producing and transmitting high-frequency. I. B. Crandell. 1,675,879; July 3.
Sound, Method and apparatus for recording and reproducing. C. D. Lindridge. 1,675,894; July 3.
Sounding device for dolls and other toys. A. Konoff. 1,675,358; July 3.
Speed-indicating device. P. Gambarotta. 1,675,974; July 3.
Speed-transmitting mechanism, Variable. T. Walsh and H. S. Coover. 1,675,438; July 3.
Spike, Nonclogging baseball-shoe. R. E. French. 1,675,885; July 3.
Spike, Railway. E. B. Griffin. 1,676,022; July 3.
Spinning and twisting machine. J. J. Keyser. 1,676,093; July 3.
Spinning-ring travelers, Constructing. C. F. Merrill. 1,676,205; July 3.
Splicing multiply thread, Apparatus for and method of. R. L. Young. 1,675,400; July 3.
Spool, Jack. C. P. Park. 1,675,907; July 3.
Spotlight and mounting therefor. H. P. Thompson. 1,675,519; July 3.
Sporting apparatus. O. Feick. 1,676,015; July 3.
Spring: *See*—
Bending spring.
Squeezer, Lemon. T. L. Lynam. 1,676,102; July 3.
Stalk cutter. J. F. A. and R. A. Michalka. 1,676,105–6; July 3.
Stamping apparatus. T. A. Gorman. 1,675,801; July 3.
Stand: *See*—
Display stand. Supporting stand.
Pen desk stand.
Steam and hot-air generator. B. A. Phillips. 1,676,046; July 3.
Steam boiler. O. H. Hartmann and E. Bleitner. 1,675,892; July 3.
Steam-cleaning method and apparatus. S. A. Wier. Re17,021; July 3.
Steam generation, Apparatus for controlling. T. A. Peebles. 1,675,818; July 3.
Steaming iron. R. Leprestre. 1,676,098; July 3.
Steering device, Aeroplane. A. Kolody. 1,675,935; July 3.
Steering gear. H. M. Denyes. 1,675,645; July 3.
Steering gear, Automobile. I. J. Watkins. 1,675,520; July 3.
Step plate. O. C. Ritz Woller. 1,675,665; July 3.
Step plate. O. C. Ritz Woller. 1,675,682; July 3.
Sterilizing ligature tubes. R. W. Johnson. 1,676,090; July 3.
Still and pump therefor, Circulatory cracking. E. W. Isom and J. E. Bell. 1,676,202; July 3.
Still, Oil. E. W. Isom and A. C. Vobach. 1,676,204; July 3.
Stills, Operation of pressure. E. W. Isom and J. E. Bell. 1,676,203; July 3.
Stop mechanism. L. J. Bazoni. 1,675,590; July 3.
Stop mechanism, Automatic. V. G. Ross. 1,675,426; July 3.
Storage battery. R. A. Klock and T. B. Entz. 1,675,978; July 3.
Store-service apparatus. P. R. Goss. 1,675,545; July 3.
Stove and toaster, Combined electrical. E. V. Coulston. 1,675,924; July 3.
Straightener, Rail-bond. O. W. Bricker. 1,675,785; July 3.
Strainer, D. R. McNeal. 1,675,505; July 3.
Strainer and container, Combination. E. S. and A. P. Kogler. 1,675,855; July 3.
Strap protector. J. M. Walsh. 1,676,035; July 3.
Strip mill. F. C. Biggert, jr. 1,676,176; July 3.
Stripping, Weather. W. J. Dennis. 1,675,844; July 3.
Sucker-rod wrench. T. A. Reynolds. 1,675,729; July 3.
Sulphur-bearing article. H. A. Noyes. 1,675,376; July 3.
Supporting device, Flexible. D. S. S. Steuart. 1,675,672; July 3.
Supporting member, Reenforced. P. H. Sereff. 1,675,768; July 3.
Supporting stand, Detachable. H. C. Coleman. 1,675,794; July 3.
Surfacing machine. E. H. Reiber. 1,676,111; July 3.
Surfacing mechanism. A. E. Paige. 1,675,862; July 3.
Surveyor's device. R. McCormick. 1,675,946; July 3.
Suspension device for maps and the like. C. Pedersen. 1,675,515; July 3.
Swimming device. H. Mohr. 1,675,372; July 3.
Switch: *See*—
Electric switch. Motor-starting switch.
Electrical switch.
Switch. H. L. Joyce. 1,675,352; July 3.
Switch. H. A. Woofter. 1,675,683; July 3.
Table: *See*—
Convertible table. Glass-cutting table.
Extension table. Take-down table.
Folding table.
Table. F. W. Gibson. 1,676,217; July 3.
Table for typewriters, Cover. C. A. Gourlay. 1,675,648; July 3.
Take-down table. A. T. Shrader. 1,675,827; July 3.
Take-up for leveler bars, Automatic rope. I. D. Thomas and P. H. Douglas. 1,675,917; July 3.
Tank and cabinet, Combined flush. B. O. Tilden. Des. 75,703; July 8.
Tank insulation, Oil-. R. T. Kemper. 1,675,354; July 3.
Telephone accessory. D. S. S. Steuart. 1,675,622; July 3.
Telephone substation circuits. R. S. Ohl. 1,675,423; July 3.
Telephone system. A. E. Hague. 1,675,886; July 3.
Telephone system. C. E. Lomax. 1,675,502; July 3.
Telephone system. L. F. Porter. 1,675,956; July 3.
Tennis racket. R. H. Robinson. 1,676,051; July 3.
Tension device for wire-tying machines. F. Rychlewski. 1,675,730; July 3.
Terminal, Suspended-aerial cable. W. N. Faust. 1,675,602; July 3.
Testing machine. F. A. Hamilton. 1,675,802; July 3.
Textile fabric. E. Kirchhoff. Des. 75,690; July 3.
Thermal regulator. H. S. Gano. 1,675,340; July 3.
Thermometer. H. B. Brown. 1,675,531; July 3.
Thread cleaner. H. J. Hufford. 1,676,187; July 3.
Tie: *See*—
Railway tie.
Time indicator. P. H. Hickey. Des. 75,687; July 3.
Timer and distributor, Combined. C. F. Gilchrist and H. R. Patterson. 1,676,185; July 3.
Timing the operations of concrete-mixing and other machines, Mechanism for. S. Shafer, jr. 1,675,733; July 3.
Tire-inflating apparatus. O. F. Flumerfelt. 1,676,139; July 3.
Tire spreader. G. E. Weaver. 1,675,521; July 3.
Tobacco pipe. S. Gunnlaugsson. 1,676,142; July 3.
Toilet construction. L. E. Cohoon. 1,675,841; July 3.
Tool and plane iron, Sawing. E. A. Bolinder. 1,676,071; July 3.
Tool box. J. E. Coe. 1,675,484; July 3.
Tool, Combination. W. J. West. 1,675,476; July 3.
Tool for drawing tubular bosses. A. L. Riker. 1,675,910; July 3.
Tool, Hand. W. A. Bernard. 1,675,838; July 3.
Tool retainer. G. W. Smith. 1,675,432; July 3.
Tool, Storage-battery. L. G. Loyd. 1,675,812; July 3.
Tool, Trimming. P. Detlefsen. 1,675,535; July 3.
Tool, Valve-adjusting. C. O. Anderson. 1,675,781; July 3.
Tone-control means. R. C. Sprague. 1,675,831; July 3.
Tongs, Pipe. F. S. Bunker. 1,675,748; July 3.
Torch tip. E. H. Smith. 1,675,668; July 3.
Tower. M. B. Schiller and O. J. Haller. 1,676,161; July 3.
Toy. J. F. Boyet. 1,675,482; July 3.
Toy. L. E. Gerrish. 1,676,085; July 3.
Toy. S. J. Swanson. 1,676,062; July 3.
Toy, Aeroplane. J. J. Renie. Des. 75,697; July 3.
Toy, Diver. C. Weidinger, L. Gradl, and M. Schönner. 1,675,522; July 3.
Toy, Flying. J. Calvo. 1,675,970; July 3.
Track, Coursing. W. C. Cox. 1,675,972; July 3.
Tractor device. J. Vibber. 1,676,120; July 3.
Tractor-operated stump-uprooting device. J. Meunier. 1,676,040; July 3.
Traffic-control system. C. B. Foley. 1,675,339; July 3.
Traffic-controlling apparatus, Railway-. D. G. Ackerly. 1,675,587; July 3.
Traffic-controlling apparatus, Railway-. C. W. Fallor. 1,675,927; July 3.
Traffic-controlling apparatus, Railway-. H. O. Holte. 1,675,553; July 3.
Traffic-controlling apparatus, Railway-. H. A. Thompson. 1,675,583; July 3.
Traffic-controlling apparatus, Railway-. H. A. Wallace. 1,675,584; July 3.
Transfer mechanism. W. O. Hall. 1,675,346; July 3.
Translating diaphragm and mounting same, Wave-energy-. H. C. Harrison. 1,675,853; July 3.

Transmission. T. L. Fawick. 1,675,538; July 3.
Transmission, Carrier-wave. J. S. Jammer. 1,675,893; July 3.
Transmission, Electric. J. A. Heany. 1,676,028; July 3.
Transmission, Electric-current. A. M. Curtis. 1,675,880; July 3.
Transmission for rotary engines. F. A. Bullington. 1,676,211; July 3.
Transmission, High-frequency. J. C. Gabriel. 1,675,890; July 3.
Transmission regulation. H. T. Friis. 1,675,848; July 3.
Transmission speedometer drive, Ford. H. Tittensor. 1,675,625; July 3.
Transmitter, Telegraph. L. M. Potts. 1,675,823; July 3.
Transporting and lowering burial apparatus, Combined. H. A. Ledyard and J. J. Jelley. 1,675,362; July 3.
Transporting goods. H. A. Otis. 1,675,512; July 3.
Transportation means, Freight-. W. P. Kellett. 1,675,562; July 3.
Trap: *See*—
Antisiphon trap. Rat trap.
Trap. H. E. Heine. 1,676,029; July 3.
Tray for child's chair, Adjustable. H. W. Martin. 1,675,985; July 3.
Treating articles being galvanized. T. A. Diesel. 1,675,926; July 3.
Truck-body construction. R. F. Burke. 1,675,317; July 3.
Truck, Freight. B. F. Fitch. 1,675,701; July 3.
Truck, Locomotive trailer. C. T. Westlake. 1,675,679; July 3.
Truck-wheel, Dual-tired. L. D. Kay. 1,675,934; July 3.
Tube cleaner. J. P. Rodgers. 1,676,157; July 3.
Tungsten and producing the same, Form of. C. G. Fink. 1,675,486; July 3.
Tuyère cooler. J. E. Lose. 1,675,611; July 3.
Typewriter copyholder and line marker. P. L. Blake. 1,675,784; July 3.
Typewriting machine. J. Waldheim. 1,675,436; July 3.
Typewriting machines, Apparatus for holding work webs for. J. Waldheim. 1,675,740; July 3.
Typographical distributing bar. G. E. Mariatt. 1,676,196; July 3.
Underreamer, Hydraulic. B. F. Blanchard. 1,675,325; July 3.
Unloading device for slitter and rewinding machines. P. D. Parsons. 1,675,863; July 3.
Unloading machine. S. Nagao. 1,676,041; July 3.
Unit for use in the manufacture of separable cuff links. S. Fischer. 1,675,797; July 3.
Vacuum air separator. L. Lindsay. 1,675,941; July 3.
Vacuum pressure device and mask. W. C. Huebner. 1,675,492; July 8.
Vacuum-tube contact device. J. C. Farley. 1,675,485; July 3.
Valve. W. M. Fleming. 1,676,179; July 3.
Valve. F. J. Laird. 1,675,979; July 3.
Valve. J. W. Langdon. 1,676,034; July 3.
Valve cap. F. D. Farr. 1,675,752; July 3.
Valve, Combination float and diaphragm. C. N. Flagg. 1,676,084; July 8.
Valve control for plunger pumps. R. C. Hawkins. 1,676,186; July 3.
Valve, Expansion. C. M. Holley. 1,676,031; July 3.
Valve for water-closets, Pendulum or swinging flush. E. H. Gove. 1,676,234; July 3.
Valve for compressors. C. H. Leinert. 1,675,566; July 3.
Valve for lawn-sprinkling systems, Drain. H. B. Sherman. 1,675,992; July 3.
Valve, Full-way or gate. H. L. Mason. 1,675,986; July 3.
Valve, Indicating and recording nonreturn. D. R. Yarnall. 1,675,523; July 3.
Valve mechanism. T. H. Moseley and C. E. Droege. 1,675,817; July 3.
Valve mechanism, Control or change-over. J. Lyall. 1,675,982; July 3.
Valve, Pilot-light-controlled gas. F. H. Brinkerhoff. 1,675,638; July 3.
Valve, Piston. E. Allzeit. 1,675,320; July 3.
Valve, Pressure-retaining. C. Transue. 1,676,169; July 3.
Valve, Reciprocating. W. G. Wilson. Re17,022; July 3.
Valve-tappet construction. C. H. Page. 1,675,954; July 3.
Valve, Thermostatic water. L. M. Spencer. 1,675,620; July 3.
Valve, Tire. M. J. Payne. 1,675,990; July 3.
Valve unit, Thermostatically-controlled. J. V. Giesler. 1,675,341; July 3.
Vanity case. W. J. Hines. Des. 75,688; July 3.
Vapor burner. R. M. Sherman. 1,676,223; July 3.
Vapor moistener. J. A. Peterson. 1,676,110; July 3.
Vapors, Fractional condensation of mixed. L. Welsberg. 1,676,232; July 3.
Vehicle heater, Motor-. J. H. Gould. 1,676,021; July 3.
Vehicle top. M. J. Forrester. 1,675,539; July 3.
Vehicles, Method of and apparatus for controlling power-driven. A. D. Skinner. 1,675,388; July 3.
Vehicles, Resilient suspension for motor. G. Veglio. 1,675,963; July 3.
Vending and dispensing case, Combination. G. R. Webber. Des. 75,707; July 3.
Vending and display case, Combined. W. O. Harrison and G. W. Johnson. Des. 75,685; July 3.
Vending machine. J. R. Nolan. 1,675,510; July 3.
Vending machine, Coin-controlled. G. B. Smith. 1,675,994; July 3.
Vending machines, Coin-controlled mechanism for. J. R. Nolan. 1,675,511; July 3.
Ventilating attachment for milk-can covers. W. McCallum. 1,675,503; July 3.
Vise automatic, Auxiliary. D. C. Scougal. 1,675,868; July 3.
Voice-producing apparatus for dolls and other toy figures. E. F. Steiner. 1,675,832; July 3.
Wagon, Tip. H. Bernier. 1,676,127; July 3.
Wall structure, Compound. L. L. Knox. 1,676,094; July 3.
Warm-air furnace. R. W. Satterholm. 1,676,054; July 3.
Warp-knit fabric. T. R. Meinig. 1,675,500; July 3.
Washer and sterilizer. H. K. McManus. 1,675,655; July 8.
Waste retainer. R. H. Dyer. 1,675,751; July 3.
Watchcase. A. W. Wadsworth. 1,675,675; July 3.
Water gauge, Steam-boiler. O. H. Hartmann and H. Peperkorn. 1,676,026; July 3.
Wave setter for hair-dressing purposes. J. Bloom. 1,675,839; July 3.
Welding machine. A. M. Stanley and J. E. Sims. 1,675,734; July 3.
Welding machine, Electric. L. H. Hoffer. 1,675,705; July 3.
Welding medium for aluminum. W. Reuss. 1,675,664; July 3.
Wheel: *See*—
Disk wheel. Truck wheel.
Wheel gauge, Motor-vehicle-. C. C. Bennett. 1,675,481; July 3.
Wheel nave and the like and method of forming it. H. S. Holmes. 1,675,706; July 8.
Wheel rim, Vehicle. H. S. Goodkowitz. 1,675,488; July 3.
Winding machine. M. B. Grout. 1,675,650; July 3.
Window and door construction. B. J. Goldsmith and E. Koeb. 1,675,704; July 3.
Window support. C. A. Lewis. 1,675,939; July 3.
Window wiper. F. A. Eitelgoerge. 1,675,537; July 3.
Windshield. A. L. Riker. 1,675,909; July 3.
Windshield cleaner. F. G. and W. M. Folberth. 1,675,337–8; July 3.
Windshield heater. F. E. Roberts. 1,675,911; July 3.
Wiper, Windshield. F. Mokma. 1,675,816; July 3.
Wire-drawing block. S. Pushalski. 1,675,822; July 3.
Wire-stitching folding machine. E. D. Rader. 1,676,156; July 3.
Wire-tie-twisting apparatus. A. M. Bates. 1,675,746; July 3.
Wood pieces for making rolls, Joining. W. J. Simonds and J. G. Spear. 1,675,387; July 3.
Work holder. W. H. Chapman. 1,675,449; July 3.
Working head, Doublestroke. H. Schlachter. 1,676,163; July 3.
Wrench: *See*—
Pipe wrench. Sucker-rod wrench.
Yarns or the like in looms, winding, doubling, and other textile machines, Tensioning. H. L. Byrd. 1,675,330; July 3.
Zinc coating ferrous metal. J. G. Fitz Gerald. 1,675,646; July 3.

CLASSIFICATION OF PATENTS

ISSUED JULY 3, 1928.

NOTE.—First number=class, second number=subclass, third number=patent number.

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2— 146: 1,675,758
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63: 1,675,574
154— 9: 1,675,521
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158— 27.4: 1,675,668
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87: 1,676,223
91: 1,676,080
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164— 6.5: 1,675,803
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167— 3: 1,675,940
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177— 311: 1,675,989
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179— 7: R. 17,023
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238— 295: 1,676,022
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240— 2: R. 17,017
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294— 84: 1,675,896
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42: 1,675,814
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63: 1,675,510
78: 1,676,109
95: 1,675,994
103: 1,675,454

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Acme Supply Co. (See Coleman, Albert J.)

Advertising Golf Ball Corporation, New York, N. Y. Golf balls. 244,112; July 10; Serial No. 262,501; published Apr. 24, 1928. Class 22.

Alkine Laboratories. (See Tobin, Meyer.)

American Crayon Company, The, Sandusky, Ohio. Adhesive paste. 244,080; July 10; Serial No. 261,690; published Apr. 24, 1928. Class 5.

Austin Laboratories Incorporated, Providence, R. I. Compound for bronchial coughs and astbma. 244,094; July 10; Serial No. 258,564; published Feb. 28, 1928. Class 6.

Bellerose, Albert R., doing business as Stoppo Products Company, Hartford, Conn. Preparation. 244,123; July 10; Serial No. 262,387; published Apr. 17, 1928. Class 6.

Bernet, Craft & Kauffman Milling Company, St. Louis, Mo. Wheat flour. 244,075; July 10; Serial No. 229,894; published July 12, 1927. Class 46.

Björkman, George E., Paris, France. Electric apparatus for permanent waving of hair. 244,097; July 10; Serial No. 254,071; published Apr. 24, 1928. Class 44.

Brown, Wm. H., & Bro. Company, Baltimore, Md., and New York, N. Y. Perfumes. 244,131; July 10; Serial No. 261,788; published Apr. 24, 1928. Class 6.

Caley, Wendell J., doing business as Titite Company, Bala, Pa. Adhesive mending fluid. 244,070; July 10; Serial No. 243,196; published Apr. 24, 1928. Class 5.

California Wall Bed Company, San Francisco, Calif. Concealable beds. 244,163; July 10. Class 32.

Carter & Rogers, Lebanon, N. H. Piece goods. 244,067; July 10; Serial No. 250,489; published Aug. 2, 1927. Class 42.

Carter-Rice & Carpenter Paper Co., The, Denver, Colo. Bond paper. 244,150; July 10. Class 37.

Cataract Chemical Company, Inc., Buffalo, N. Y. Chemical products for the filling, bleaching, and conditioning of leather. 244,138; July 10; Serial No. 261,349; published Apr. 17, 1928. Class 6.

Chein, J., & Co., Harrison, N. J. Mechanical toy aeroplanes. 244,068; July 10; Serial No. 250,010; published July 26, 1927. Class 22.

Chemische Fabrik "Promonta" Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Chemical and organotherapeutical preparations, etc. 244,104; July 10; Serial No. 229,148; published Apr. 24, 1928. Class 6.

Clinical Laboratories Company, The, Cleveland, Ohio. Germicide and antiseptic. 244,071; July 10; Serial No. 242,280; published Apr. 10, 1928. Class 6.

Cockburn & Co. Ltd., Glasgow, Scotland. Medicated inhaler. 244,143; July 10; Serial No. 257,147; published Apr. 17, 1928. Class 6.

Colemand, Albert J., doing business as Acme Supply Store, Binghamton, N. Y. Pure barley-malt extract. 244,062; July 10; Serial No. 256,765; published Apr. 24, 1928. Class 46.

Columbus Dental Manufacturing Co., The, Columbus, Ohio. Artificial teeth, tooth facings, and tooth backings. 244,109; July 10; Serial No. 262,702; published May 1, 1928. Class 44.

Coty, Inc., Wilmington, Del., and New York, N. Y. Perfume droppers. 244,141; July 10; Serial No. 258,070; published Apr. 10, 1928. Class 6.

D'Arrigo Bros. Co., San Jose, Calif. Fresh vegetables. 244,158; July 10. Class 46.

Davis Bros. Cheese Co., Plymouth, Wis. Cheese. 244,089; July 10; Serial No. 260,810; published Apr. 24, 1928. Class 46.

Davol Rubber Company, Providence, R. I. Nursing-bottle nipples or caps made of rubber. 244,079; July 10; Serial No. 261,704; published May 1, 1928. Class 44.

De Raymond. (See Fay, Edward J.)

Doak, J., and Company, Philadelphia, Pa. Injections for the treatment of anaemia, cancer, goitre, etc. 244,102; July 10; Serial No. 243,692; published Apr. 17, 1928. Class 6.

Downstides, Christy, Burlington, Vt. Hair tonic. 244,100; July 10; Serial No. 250,233; published Apr. 24, 1928. Class 6.

Dutchess Mfg. Co., Poughkeepsie, N. Y. Hand bags and other fancy bags, etc. 244,087; July 10; Serial No. 261,050; published Apr. 24, 1928. Class 3.

Ellis, J. E., Limited, Horsforth, near Leeds, England. Rouges, lip sticks, face creams, etc. 244,120; July 10; Serial No. 262,451; published Apr. 17, 1928. Class 6.

Engle, Daniel, doing business as Daniel Engle Co., New York, N. Y. Dried milk. 244,096; July 10; Serial No. 258,408; published Mar. 6, 1928. Class 46.

Enterprise Manufacturing Company, The, Akron, Ohio. Fishing reels. 244,085–6; July 10; Serial No. 261,247–8; published Apr. 24, 1928. Class 22.

Fairchild Bros. & Foster, New York, N. Y. Extract. 244,122; July 10; Serial No. 262,396; published Apr. 17, 1928. Class 6.

Fay, Edward J., doing business as De Raymond, New York, N. Y. Perfumes. 244,146; July 10; Serial No. 256,181; published Dec. 13, 1927. Class 6.

Ferdon, Monroe A., doing business as Fer-Don, Indianapolis, Ind. Medicinal wash. 244,137; July 10; Serial No. 261,619; published Apr. 24, 1928. Class 6.

First National Laboratories, Incorporated, Lehighton, Pa. Liniment. 244,140; July 10; Serial No. 260,816; published Apr. 17, 1928. Class 6.

Flood & Conklin Company, Newark, N. J. Varnishes, paste, and paints, etc. 244,114; July 10; Serial No. 262,452; published May 1, 1928. Class 16.

Folsom, Ida M., doing business as Mrs. George W. Folsom, McAllen, Tex. Preparation for the complexion. 244,098; July 10; Serial No. 253,883; published Apr. 24, 1928. Class 6.

Formozone Chemical Co. (See Scott, Charles D.)

Fuller, W. P., & Co., San Francisco, Calif. Paint, lacquer, varnish, and enamel paints. 244,064; July 10; Serial No. 256,114; published Jan. 3, 1928. Class 16.

Goose Oil Mfg. Co. (See Kramer, Julius.)

Gottlieb, Max, Berlin, Germany. Douches for women. 244,101; July 10; Serial No. 245,840; published May 1, 1928. Class 44.

Grabel, Robert E., doing business as Master Dentifrice Laboratories, Inc., Borden Springs, Ala. Medicinal powder for treatment and relief in pyorrhea. 244,127; July 10; Serial No. 262,025; published Apr. 1, 1928 Class 6.

Granby Manufacturing Company, Inc., Keene, N. H. Golf tees. 244,090; July 10; Serial No. 260,728; published May 1, 1928. Class 22.

Grasselli Chemical Company, The, Cleveland, Ohio. Carbon black. 244,116; July 10; Serial No. 262,357; published May 1, 1928. Class 16.

Great Grimsby Textile Company, Inc., New York, N. Y. Woolens in the piece. 244,147; July 10. Class 42.

Ha-Su-Ma Laboratories, Inc. (See Merke, Alois, assignor.)

Hays, Jane D., Chicago, Ill. Restorative medical plaster. 244,139; July 10; Serial No. 261,192; published Apr. 17, 1928. Class 6.

Heller Brothers Importing Co., Inc., doing business as Vita Fish Preserving Works, New York, N. Y. Caviar in tins and jars. 244,152; July 10. Class 46.

Henning-Orla Bruhn, Copenhagen, Denmark. Glues and mucilages. 244,115; July 10; Serial No. 262,359; published Apr. 24, 1928. Class 5.

Hicks, Linzy, doing business as Hicks Ice Cream Company, Lexington, Ky. Frozen confections. 244,088; July 10; Serial No. 260,824; published Apr. 17, 1928. Class 46.

Hobbs-Parsons Company, Fresno, Calif. Fresh apples, dried beans, eggs, etc. 24(072; July 10; Serial No. 240,711; published Apr. 24, 1928. Class 46.

Howell Company, Inc., The, New Orleans, La. Preparation for chills, fever, etc. 244,117; July 10; Serial No. 263,213; published Apr. 24, 1928. Class 6.

Igleheart Brothers, Inc., Evansville, Ind. Cake flour. 244,091; July 10; Serial No. 260,569; published Apr. 24, 1928. Class 46.

Ilson, Edward L., Brooklyn, N. Y. Toys and games. 244,063; July 10; Serial No. 256,191; published May 1, 1928. Class 22.

Kaplan, Nathan, doing business as Union Malt & Hop Company, New York, N. Y. Hops. 244,155; July 10. Class 1.

Karnack-Ambrosia Co. (See Lesiak, Casimir A.)

Klein, E. A., doing business as Klein's Will-Kill Exterminator Co., Milwaukee, Wis. Insecticide. 244,133; July 10; Serial No. 261,758; published Apr. 17, 1928. Class 6.

Kramer, Julius, doing business as Goose Oil Mfg. Co., New York, N. Y. Preparation for the relief of inflammation and pain. 244,126; July 10; Serial No. 262,225; published Apr. 24, 1928. Class 6.

Lancaster Metalcraft Corp'n, Columbia, Pa. Can opener. 244,161; July 10. Class 23.

Lazarus, A., Traverse City, Mich. Medicine. 244,149; July 10. Class 6.

Leader Food Products Co., Chicago, Ill. Mayonnaise, Thousand Island dressing, and prepared mustard. 244,111; July 10; Serial No. 262,520; published Apr. 24, 1928. Class 46.

Lesiak, Casimir A., doing business as Karnack-Ambrosia Co., Scranton, Pa. Medicinal preparation. 244,119; July 10; Serial No. 262,470; published Apr. 24, 1928. Class 6.

Levinson, Isaac D., Detroit, Mich. Compound. 244,144; July 10; Serial No. 256,731; published Apr. 17, 1928. Class 6.

Lock, John H., Co., Inc., The, New York, N. Y. Canned fruits, canned vegetables, etc. 244,162; July 10. Class 46.

MacLean-Fogg Lock Nut Company, Chicago, Ill. Nuts for bolts and other threaded members. 244,105; July 10; Serial No. 252,852; published Sept. 27, 1927. Class 13.

Mallard, Albert E., Detroit, Mich. Tablets and capsules. 244,136; July 10; Serial No. 261,639; published Apr. 17, 1928. Class 6.

Manning's, Inc., Seattle, Wash. Bread, cookies, rolls, pies etc. 244,066; July 10; Serial No. 254,141; published Apr. 24, 1928. Class 46.

Marcel Franck, Inc., New York, N. Y. Atomizers for perfume and the like. 244,077; July 10; Serial No. 262,235; published May 1, 1928. Class 44.

Martin Brothers Electric Company, The, Cleveland, Ohio. Machines for drying hair. 244,082; July 10; Serial No. 261,372; published May 1, 1928. Class 44.

Martin Brothers Electric Company, The, Cleveland, Ohio. Electrical apparatus. 244,083; July 10; Serial No. 261,371; published May 1, 1928. Class 44.

Martin Dennis Company, The, Newark, N. J. Kind of leather stuffing. 244,130; July 10; Serial No. 261,894; published Apr. 24, 1928. Class 6.

Master Dentrifice Laboratories, Inc. (See Grabel, Robert E.)

Maxson, Frank P., Chicago, Ill. Coping saws. 70,995; renewed Oct. 20, 1928.

McCormick & Co., Incorporated, Baltimore, Md. Insecticides. 244,124; July 10; Serial No. 262,368; published Apr. 4, 1928. Class 6.

McEwen, Irving, Omaha, Nebr. Cutworm and gopher repellent and seed-corn disinfectant. 244,125; July 10; Serial No. 262,239; published Apr. 17, 1928. Class 6.

Mead Johnson & Company, Evansville, Ind. Activated ergosterol, an antirachitic substance containing vitamin D. 244,145; July 10; Serial No. 261,897; published Apr. 17, 1928. Class 6.

Merchant's & Manufacturer's Paint Co., Louisville, Ky. Paint, stains, paint enamels, etc. 244,092; July 10; Serial No. 259,777; published May 1, 1928. Class 16.

Merke, Aiols, doing business as Ha-Su-Ma Laboratory, assignor to Ha-Su-Ma Laboratories, Inc., Chicgo, Ill. Applicators and hand massaging implements. 244,093; July 10; Serial No. 259,741; published May 1, 1928. Class 44.

Morgan Company, The, Peoria, Ill. Paint enamel. 244,132; July 10; Serial No. 251,770; published May 1, 1928. Class 16.

Osborne, C. W., doing business as C. W. Osborne Co., Fullerton, Calif. Fresh vegetables. 244,157; July 10. Class 46.

Oster Manufacturing Company, The, Cleveland, Ohio. Thread-cutting tools, machines, and devices. 70,024; renewed July 21, 1928.

Pan Pacific Products, Incorporated, Los Angeles, Calif. Tooth paste. 244,128; July 10; Serial No. 261,981; published Apr. 17, 1928. Class 6.

Peoples Drug Stores, Inc., Washington, D. C. Golf balls. 244,107; July 10; Serial No. 262,970; published May 1, 1928. Class 22.

Perfection Manufacturing Company, The St. Louis, Mo. Children's swings, baby toddlers, doll sulkies, etc. 244,069; July 10; Serial No. 248,922; published Apr. 24, 1928. Class 22.

Phillips, Henry M., doing business as Henry M. Phillips Co., Goodman, Mo. Cough syrup. 244,135; July 10; Serial No. 261,646; published Apr. 24, 1928. Class 6.

Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat flour. 244,073; July 10; Serial No. 238,870; published Apr. 24, 1928. Class 46.

Polar Milling Company, Minneapolis, Minn. Wheat flour. 244,106; July 10; Serial No. 263,013; published Apr. 24, 1928. Class 46.

Provento Company. (See Sanders, Frank E.)

Raschig, Dr. F., Ludwigshafen-on-the-Rhine, Germany. Preparation for the treatment of colds. 244,099; July 10; Serial No. 251,413; published Apr. 24, 1928. Class 6.

Readybuilt Products Company, The, Baltimore, Md. Fireplaces. 244,156; July 10. Class 12.

Roanoke Mills Company, Roanoke Rapids, N. C. Cotton flannels. 244,074; July 10; Serial No. 230,571; published Dec. 6, 1927. Class 42.

S C & E Manufacturing Corporation, New York, N. Y. Punching bags, boxing gloves, knuckle protectors, etc. 244,095; July 10; Serial No. 258,430; published Apr. 24, 1928. Class 22.

Saino, F. L., Manufacturing Co. Inc., Memphis, Tenn. Metal fire doors. 244,160; July 10. Class 12.

Sanders, Frank E., doing business as Provento Company, Alliance, Nebr. Medicinal preparation. 244,142; July 10; Serial No. 257,998; published Apr. 24, 1928. Class 6.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Foot-corrective appliances. 244,108; July 10; Serial No. 262,938; published May 1, 1928. Class 44.

Schultz, Baujan & Company, Beardstown, Ill. Wheat flour. 244,148; July 10. Class 46.

Scott, Charles D., doing business as Formozone Chemical Co., Trenton, N. J. Antiseptic wafers. 244,121; July 10; Serial No. 262,416; published Apr. 24, 1928. Class 6.

Scott, John E., Jersey City, N. J. Liniment. 244,118; July 10; Serial No. 262,531; published Apr. 24, 1928. Class 6.

Shulman & Sons, New York, N. Y. Educational reading toy game. 244,076; July 10; Serial No. 262,267; published May 1, 1928. Class 22.

Smith, Albert D., & Co., New York, N. Y. Cotton pitce goods and shade cloth. 244,153; July 10. Class 42.

Southern Manufacturing Co., The, Richmond, Va. Baking powder. 244,103; July 10; Serial No. 239,604; published Apr. 17, 1928. Class 6.

Statesville Flour Mills Company, Statesville, N. C. Dairy and poultry feed. 244,113; July 10; Serial No. 262,492; published Apr. 24, 1928. Class 46.

Steele-Wedeles Company, Chicago, Ill. Sauce Bordelnise, sauce Newburg, etc. 244,065; July 10; Serial No. 255,472; published Jan. 31, 1928. Class 46.

Stoppo Products Company. (See Bellerose, Albert R.)

Sun Typewriter Company, Newark, N. J. Typewriting machines. 71,321; renewed Nov. 17, 1928.

Syrup Products Company, Inc., New York, N. Y. Lacquer reducer. 244,081; July 10; Serial No. 261,534; published May 1, 1928. Class 16.

Tex-Ryte Products Corporation, New York, N. Y. Paints and wall coverings similar to paints. 244,078; July 10; Serial No. 261,997; published May 1, 1928. Class 16.

Titite Company. (See Caley, Wendell J.)

Tobin, Meyer, doing business as Alkine Laboratories, New Brunswick, N. J. Preparation for neuritis, etc. 244,129; July 10; Serial No. 261,917; published Apr. 24, 1928. Class 6.

Toomey, D. J., Milling Co. Inc., Spearfish, S. Dak., and Crawford, Nebr. Pancake flour. 244,084; July 10; Serial No. 261,290; published Apr. 24, 1928. Class 46.

Truscon Steel Company, doing business as The Truscon Laboratories, Detroit and Hamtramck, Mich. Ready-mixed paints. 244,110; July 10; Serial No. 262,580; published Apr. 24, 1928. Class 16.

Union Malt & Hop Company. (See Kaplan, Nathan.)

Van Wagenen and Schickhaus Company, Newark, N. J. Ham and bacon. 244,154; July 10. Class 46.

Vita Fish Preserving Works. (See Heller Brothers Importing Co.)

Walsh, James M., Co., Milwaukee, Wis. Animal harness. 244,151; July 10. Class 3.

York, Lula R., Philadelphia, Pa. Preparation for growing hair. 244,134; July 10; Serial No. 261,728; published Apr. 17, 1928. Class 6.

Young, Sarah L., doing business as Young's Laboratory, Nashville, Tenn. Medical preparation. 244,159; July 10. Class 6.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Alpa Malt Extract Company. (See Husar, John.)

Bradford Bros, Inc., Placentia, Calif. California Dream. For Fresh Oranges. 34,268; July 10.

Chigger-Choke Company. (See Schoffelmayer, Victor H.)

Collingbourne Mills, Inc., Elgin, Ill. Dexter Artzilk Boil-Proof Colors. For Embroidery Floss. 34,269; July 10.

Cyclone Games Co. (See Ross, Leo S.)

Deberard, Wilford H., doing business as De Berard Grape Growers, Cucamonga, Calif. De Berard. For Fresh Grapes. 34,270; July 10.

Elby Extract Company. (See Lehrhaupt, Eugene, & Joseph Lehrhaupt.)

Gerner, William, Chicago, Ill. De Paree. For Hair Tonic. 34,271; July 10.

Goodwin, Benjamin F., New York, N. Y. Gooby-Sticks. For a Food Confection. 34,272; July 10.

Greenfield Vintage Company, The, Shreveport, La. Greenfield's Punch. For Concentrated Beverage. 34,273; July 10.

Husar, John, doing business as Alpa Malt Extract Company, Chicago, Ill. Alpa Special. For Malt Syrup. 34,274; July 10

Kilit Chemical Company. (See Lipsky, Harold H.)

Lehrhaupt, Eugene, & Joseph Lehrhaupt, doing business as Elby Extract Company, New York, N. Y. Bouquet. For Culinary Flavors. 34,275; July 10.

Lipsky, Harold H., doing business as Kilit Chemical Company, Baltimore, Md. Kilit. For a Preparation for Killing Bugs, Insects, etc. 34,276; July 10.

Pacific Coast Paper Mills, Bellingham, Wash. Mt. Baker Brand. For Toilet Paper. 34,277; July 10.

Pepper, Dr., Company, Dallas, Tex. Drink A-Bite-To-Eat at 10-2 & 4 O'Clock. For a Soft Drink, Nonalcoholic Beverage. 34,278; July 10.

Puritan Malt Extract Co., Chicago, Ill. Puritan Malt Extract. For Malt Extract. 34,279; July 10.

Puritan Malt Extract Co., Chicago, Ill. Puritan Malt Bohemian Hop Flavored. For Malt Extract. 34,280; July 10.

Rialto Malt Extract Co., Chicago, Ill. Rialto Malt, an All Barley Malt Extract. For Malt Extract. 34,281; July 10.

Rialto Malt Extract Co., Chicago, Il. Prima Barley Malt Extract. For Malt Extract. 34,282; July 10.

Riverside & Dan River Cotton Mills, Inc., Danville, Va. Faith. For Sheeting. 34,283; July 10.

Ross, Leo S., doing business as Cyclone Games Co., Chicago, Ill. Cyclone. For Game. 34,284; July 10.

Schoffelmayer, Victor H., doing business as Chigger-Choke Company, Dallas, Tex. Chigger-Chaser. For Chigger Powder. 34,285; July 10.

Soderholm Baking Company, The, Bridgeport, Conn. Soderholm's Swedish Rye. For Bread. 34,286; July 10.

Stanley, Ernest M., Hobart, Okla. Watona. For Linoleum Rugs. 34,287; July 10.

Superb Malt Extract Co., Chicago, Ill. Superb Pure Malt Syrup. For Malt Syrup. 34,288; July 10.

Vogue Brassiere Manufacturing Co., Newark, N. J. Vogue. For Brassières, Bandettes, Girdles, Girdle and Brassière Combined, Brassière and Corset Combined. 34,289; July 10.

Ward Baking Company, New York, N. Y. Ward's Cakes. For Cake. 34,290; July 10.

Wrigley, Wm., Jr. Company, Chicago, Ill. Wrigley's Pink P. K. For Chewing Gum. 34,291; July 10.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Arden, Elizabeth, Inc., doing business as Elizabeth Arden, New York, N. Y. The Priceless Touch of an Artist. For Venetian Toilet Preparations. 10,989; July 10.

Arden, Elizabeth, Inc., doing business as Elizabeth Arden, New York, N. Y. Elizabeth Arden is in Personal Touch with You. For Venetian Toilet Preparations. 10,990; July 10.

Bayuk Cigars Incorporated, Philadelphia, Pa. It's Ripe Tobacco. For Cigars. 10,991; July 10.

B. V. D. Company, Inc., The, New York, N. Y. Fresh Air for the Skin. For Athletic Underwear. 10,992; July 10.

B. V. D. Company, Inc., The, New York, N. Y. Why does Underwear wear out? For Athletic Underwear. 10,993; July 10.

B. V. D. Company, Inc., The, New York, N. Y. Let Your Body Breathe. For Athletic Underwear. 10,994; July 10.

B. V. D. Company, Inc., The, New York, N. Y. Bellows Action of B. V. D. For Athletic Underwear. 10,995; July 10.

Coin Covenant Corporation, Chicago, Ill. The Coin-A-Day Home Savings Bank. For Savings Banks. 10,996; July 10.

Colgate & Co., Jersey City, N. J. Fabrics their Origin and Manufacture. For Soap. 10,997; July 10.

Colgate & Co., Jersey City, N. J. Soap its Origin Manufacture and Use. For Soap. 10,998; July 10.

Coty, Inc., Wilmington, Del., and New York, N. Y. Beauty Creations Coty. For Rouge and Lip Stick. 10,999; July 10.

Cream of Wheat Co., Minneapolis, Minn. Popular in the Men's Ward—This Satisfying Dish. For Wheat Breakfast Food. 11,000; July 10.

Crystal Chemical Company, Inc., The, New York, N. Y. Are You Unconsciously making Your Child a Victim of Neglect? For Talcum Powder for Nursery and Toilet Use. 11,001; July 10.

Crystal Chemical Company, Inc., The, New York, N. Y. What an Infant's Cry Would tell You, if it cou'd. For Talcum Powder for Nursery and Toilet Use. 11,002; July 10.

Crystal Chemical Company, Inc., The, New York, N. Y. It isn't Always 'Temper'. For Talcum Powder for Nursery and Toilet Use. 11,003; July 10.

Crystal Chemical Company, Inc., The, New York, N. Y. Suppose You couldn't Talk. For Talcum Powder for Nursery and Toilet Use. 11,004; July 10.

Crystal Chemical Company, Inc., The, New York, N. Y. Are You a Mother Who Guesses? For Talcum Powder for Nursery and Toilet Use. 11,005; July 10.

Crystal Chemical Company, Inc., The, New York, N. Y. The Danger that Lurks in an Infant's Cry. For Talcum Powder for Nursery and Toilet Use. 11,006; July 10.

Crystal Chemical Company, Inc., The, New York, N. Y. The Real Torture Behind an Infant's Cry. For Talcum Powder for Nursery and Toilet Use. 11,007; July 10.

Crystal Chemical Company, Inc., The, New York, N. Y. More Than a Cry—A Warning! For Talcum Powder for Nursery and Toilet Use. 11,008; July 10.

Crystal Chemical Company, Inc., The, New York, N. Y. 66% of all Babies Suffer This Torture—Needlessly! For Talcum Powder for Nursery and Toilet Use. 11,009; July 10.

Crystal Chemical Company, Inc., The, New York, N. Y. His Crying Pleads With You. For Talcum Powder for Nursery and Toilet Use. 11,010; July 10.

Crystal Chemical Company, Inc., The, New York, N. Y. The 'Irritation Cry' . . . Watch For it in Your Baby! For Talcum Powder for Nursery and Toilet Use. 11,011; July 10.

Fawcett Publications, Inc., Robbinsdale, Minn., and Chicago, Ill. Popular Fiction Unit. For Three Magazines Published Every Month—Namely, True Confessions, Screen Secrets, and Love Affairs. 11,012; July 10.

Gold Rolled Food Products Co., Chicago, Ill. Ribbons of Gold. For Egg Noodles. 11,013; July 10.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Good—Wingfoot—Year Truck Tires Traction and Long Wear. For Tires Composed Wholly or in Part of Rubber. 11,014; July 10.

Heinz, H. J., Company, Pittsburgh, Pa. A Good Splatter of Heinz Salad Cream on This Crisp, Succulent Salad. For Salad Cream. 11,015; July 10.

Heinz, H. J., Company, Pittsburgh, Pa. Guess What—Lift The Cover—Aha!—Spaghetti. For Cooked Spaghetti in Tomato Sauce With Cheese. 11,016; July 10.

Lindner Co'y, The, Cleveland, Ohio. The New Books First, Lindner Library. For Books, Hats, Stockings, Underwear, Dresses, Gloves, Suits and Coats, Aprons, Uniforms, Evening Gowns, and Wraps. 11,017; July 10.

McGowan, Edward M., doing business as Sanitary Package Ice Cream Company, Toledo, Ohio. Spico. For Ice-Cream Confection. 11,018; July 10.

Pepper, Dr., Company, Dallas, Tex. Teaching Texas to Drink A-Bite to Eat. For Dr. Pepper, a Soft Drink. 11,019; July 10.

Postum Company, Incorporated, New York, N. Y. New and Delicious Ways to Serve Coconut. For Baker's Coconut. 11,020; July 10.

Postum Company, Incorporated, New York, N. Y. For Summertime Drinks Make Baker's Cocoa Syrup. For Baker's Cocoa Syrup. 11,021; July 10.

Postum Company, Incorporated, New York, N. Y. Post Toasties Double-Crisp and Full of Flavor. For Post Toasties. 11,022; July 10.

Postum Company, Incorporated, New York, N. Y. Delicious! . . . Post Toasties With Fresh or Canned Fruits. For Post Toasties. 11,023; July 10.

Postum Company, Incorporated, New York, N. Y. Coconut Pie. For Franklin Baker's Coconut. 11,024; July 10.

Postum Company, Incorporated, New York, N. Y. With Walter Baker's Chocolate—This Cake Favorite. For Walter Baker's Chocolate. 11,025; July 10.

Postum Company, Incorporated, New York, N. Y. I Love the Flavor. For Post Toasties. 11,026; July 10.

Postum Company, Incorporated, New York, N. Y. Devil's Food Cake with Coconut Icing. For Franklin Baker's Coconut. 11,027; July 10.

Postum Company, Incorporated, New York, N. Y. Fine Food—Rare Flavor. For Walter Baker's Cocoa 11,028; July 10.

Postum Co., Incorporated, New York, N. Y. When The Recipe Says Chocolate. For Walter Baker's Chocolate. 11,029; July 10.

Rochester Coal Merchants' Assn., Rochester, N. Y. Dependable Heating Service. For Coal. 11,030; July 10.

Rolland Products Company, Detroit, Mich. Everfresh. For Egg Preserver. 11,031; July 10.

S. K. F. Industries, Inc., New York, N. Y. Pointing a 10,000-Pound Gun as Easily as You Might Point a Pistol. For S K F Bearings. 11,032; July 10.

Sanitary Package Ice Cream Company. (See McGowan, Edward M.)

Squibb, E. R., & Sons, doing business as Squibb's, New York, N. Y. Take That Irritation Out of The Morning Shave. For Shaving Cream. 11,033; July 10.

Squibb, E. R., & Sons, New York, N. Y. Before You Buy a Mineral Oil it is Important That You Know The Distinct Advantages of Squibb's Liquid Petrolatum. For Liquid Petrolatum. 11,034; July 10.

Squibb, E. R., & Sons, New York, N. Y. The Pity of it—For Dental Cream. 11,035; July 10.

Squibb, E. R., & Sons, New York, N. Y. The Conquest of Pain. For Ether. 11,036; July 10.

Squibb, E. R., & Sons, doing business as Squibb's, New York, N. Y. Why They Call it The Danger Line. For Dental Cream. 11,037; July 10.

Squibb, E. R., & Sons, doing business as Squibb's, New York, N. Y. To Men Who Complain About 'A Tender Skin.' For Shaving Cream. 11,038; July 10.

Squibb, E. R., & Sons, doing business as Squibb's, New York, N. Y. Read How to Guard Your Children's Teeth And Gums. For Dental Cream. 11,039; July 10.

Squibb, E. R., & Sons, doing business as Squibb's, New York, N. Y. Why Risk This Pain? For Dental Cream. 11,040; July 10.

Squibb, E. R., & Sons, doing business as Squibb's, New York, N. Y. Beauty Can Be Destroyed at the Danger Line. For Dental Cream. 11,041; July 10.

Squibb, E. R., & Sons, New York, N. Y. Youth and Health are Priceless Gifts. For Dental Cream. 11,042; July 10.

Squibb, E. R., & Sons, doing business as Squibb's, New York, N. Y. Can You Afford to Neglect This Warning? For Dental Cream. 11,043; July 10.

Squibb, E. R., & Sons, doing business as Squibb's, New York, N. Y. Beauty and Health are Often Lost at the Danger Line. For Dental Cream. 11,044; July 10.

Squibb, E. R., & Sons, New York, N. Y. Squibb's Milk of Magnesia is a Welcome Relief to Child Patients. For Milk of Magnesia. 11,045; July 10.

Squibb, E. R., & Sons, New York, N. Y. Will You Take The Word of 50,000 Dentists? For Dental Cream. 11,046; July 10.

Squibb, E. R., & Sons, New York, N. Y. 22 or 45 is There an Age When Women Must Cease to Look Young? For Dental Cream. 11,047; July 10.

Squibb, E. R., & Sons, doing business as Squibb's, New York, N. Y. Shaving Will Leave Your Face Refreshed If Hydrolysis is Controlled. For Shaving Cream. 11,048; July 10.

Squibb, E. R., & Sons, doing business as Squibb's, New York, N. Y. Fast, Easy Shaves Without Irritation—Because Hydrolysis is Controlled. For Shaving Cream. 11,049; July 10.

Squibb, E. R., & Sons, doing business as Squibb's, New York, N. Y. Dentists Tell The Three Fundamentals of Mouth Hygiene. For Dental Cream. 11,050; July 10.

Squibb, E. R., & Sons, New York, N. Y. Squibb's Milk of Magnesia is Made and Advertised in Strict Accordance With The Ideals of the Medical Profession. For Milk of Magnesia. 11,051; July 10.

Squibb, E. R., & Sons, New York, N. Y. The Rise of Preventive Medicine. For Medicine. 11,052; July 10.

Squibb, E. R., & Sons, doing business as Squibb's, New York, N. Y. It is Hydrolysis That Causes so Many Men to Dread Shaving. For Shaving Cream. 11,053; July 10.

Squibb, E. R., & Sons, doing business as Squibb's, New York, N. Y. Every Time You Eat. The Danger Line is Threatened. For Dental Cream. 11,054; July 10.

Tile & Mantel Contractors' Association of America, The, Wilmington, Del. Guild Set Tiles. For Guild-Set Tiles. 11,055; July 10.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905. Sec. 6, as amended Mar. 2, 1907.]

Abbott, Emerson N., Baldwin, N. Y. Dyes. 266,774; July 10. Class 6.

Albrecht-Bechtold, Inc., Philadelphia, Pa. Paper and cloth boxes of all descriptions and merchandise folders. 265,822; July 10. Class 2.

Alianiello, Augustin, doing business as Penataquit Drug Company, Bay Shore, N. Y. Preparation for the treatment of rheumatism, sciatica, etc. 265,823; July 10. Class 6.

American Car and Foundry Motors Company, New York, N. Y. Motor vehicles. 264,003; July 10. Class 19.

American Textiles, Inc., Bay City, Mich. Underwear and hosiery. 266,011; July 10. Class 39.

Ammon, Charles D., doing business as The Easy Manufacturing Co., Lincoln, Nebr. Implements for pushing pipes through the ground, windmills and repair and replacement parts, etc. 266,413; July 10. Class 23.

Anderson, Michael, Dayton, Ohio. Bird tonic. 259,612; July 10. Class 6.

Angus, Jordan & Exner Limited, London, England. Tanned sheep and goat skins. 266,073. July 10. Class 1.

Animal Trap Company of America, Lititz, Pa. Animal traps. 260,041; July 10. Class 50.

Anthony, J. M., & Co. (See Richter, Charles.)

Armstrong Bros. Tool Co., Chicago, Ill. Pipe-cutting-of and pipe-threading tools, pipe wrenches, tongs, etc. 264 860; July 10. Class 23.

Arnold, Friedrich, Greiz, Germany. Wool dress goods. 263,600; July 10. Class 42.

Arnold, Isaac A., Cozad, Nebr. Healing compound. 266,182; July 10. Class 6.

Auspitz, Florence M., doing business as The Corset Shop, York, Pa. Hosiery, corsets, etc. 254,442; July 10. Class 39.

Ayerst, McKenna & Harrison Limited, Montreal, Canada. Cod-liver oil. 257 770; July 10. Class 6.

Baird, Walter, doing business as You-Tha-Gan Company, Houston, Tex. Nerve tonic. 262,994; July 10. Class 6.

Baker Perkins Company, Inc., Saginaw, Mich. Flour-handling machinery, dough-handling machinery, etc. 257 089; July 10. Class 23.

Balfour, Guthrie & Co., San Francisco, Calif. Insecticides. 264,552; July 10. Class 6.

Bassett Metal Goods Company, Inc., The, Shelton, Conn. Locks. 265,086; July 10. Class 25.

Batesville White Lime Co., Batesville, Ark. Lime. 212,882; July 10. Class 12.

Bedrosian, Milan, doing business as Oriento Manufacturing Co., Elmira, N. Y. Cleansing preparation. 265,775; July 10. Class 4.

Beggs, C. W., Sons & Co., Chicago, Ill. Cosmetics. 265,250–1; July 10. Class 6.

Belley, Isidore, doing business as I. Belley & Co., New York, N. Y. Underwear. 265,826; July 10. Class 39.

Berger, Harry, doing business as H. Berger & Co., New York, N. Y. Artificial furs. 266,782. July 10. Class 1.

Bernhardt, M. E., Company, Inc., New York, N. Y. Pocket friction cigar lighters. 266,167; July 10. Class 34.

Berwind-White Coal Mining Company, The, Philadelphia, Pa. Bituminous coal. 257,521; July 10. Class 1.

Blue Ridge Glass Corporation, Kingsport, Tenn. Glass. 267,228–30; July 10. Class 33.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics. 266,970; July 10. Class 42.

Bon-Dee Golf Ball Co., Detroit, Mich. Golf balls. 265,515–17; July 10. Class 22.

Bonney Forge & Tool Works, Allentown, Pa. Wrenches and socket wrench sets. 262,547; July 10. Class 23.

Bradley, Smith Company, The, New Haven, Conn. Candy. 261,665; July 10. Class 46.

Brand, Bernard, doing business as J. Brand & Son, New York, N. Y. Artificial leather, waterproof coated fabric and cloth. 263,257; July 10. Class 50.

Brasher, Joseph C., doing business as Pan-Lax Company, Dallas, Tex. Preparation for coughs, colds, croup, etc. 261,938; July 10. Class 6.

Brauer Bros. Inc., St. Louis, Mo. Golf bags, golf-bag hoods, tennis-racket covers, etc. 251,384; July 10. Class 22.

Breath of New Mown Hay Co. (See Hicks, Thomas W.)

Brenner, Moe, New York, N. Y. Ladies' hats. 263,851; July 10. Class 39.

Briggs, George W., Johnstown, Pa. Washing-soda product. 263,638; July 10. Class 6.

Brown Company, Portland, Me., and Berlin, N. H. Paper suitable for use in making artificial leather. 263,254; July 10. Class 37.

Brown, George C., & Company, Memphis, Tenn. Kennel bedding and sawdust. 265,032; July 10. Class 1.

Buffalo Commercial Body Co. Inc., Buffalo, N. Y. Automobiles. 264,349; July 10. Class 19.

Burns, Jabez & Sons, Inc., New York, N. Y. House organ. 264,141; July 10. Class 38.

Butterfield-Barry Company, The, New York, N. Y. Paper board. 265,424; July 10. Class 37.

Butterfield, Fred & Co., Inc., New York, N. Y. Lamps and parts thereof, lamp shades and parts, and gas mantles. 264,284; July 10. Class 34.

California Fig-Co Company Inc., Los Angeles, Calif. Coffee substitute. 265,615; July 10. Class 46.

Caron Corporation. (See Daltroff, E., & Cie.)

Carr Milling Company, The, Hamilton, Ohio. Self-rising flour. 258,162; July 10. Class 46.

Carter & Churchill Co., Lebanon, N. H. Men's, boy's, women's, and girls' coats. 264,067; July 10. Class 39.

Carter Dry Goods Co., Louisville, Ky. Hosiery. 265,319; July 10. Class 39.

Celanese Corporation of America, New York, N. Y. Dresses and frocks. 265,949; July 10. Class 39.

Chamberlain, Charles H., Trenton, N. J. China bathroom fixtures. 263,689; July 10. Class 13.

Chula Vista Citrus Association, also doing business as San Diego Fruit Company, Chula Vista, Calif. Oranges, lemons, and grapefruit. 263,460; July 10. Class 46.

Cifuentes, Pego y Compania, Habana, Cuba. Cigars, cigarettes, and cut tobacco. 262,897; July 10. Class 17.

Cleaves Manufacturing Co., Woonsocket, R. I. Brushes. 229,160; July 10. Class 29.

Clinton, Bob, Mfg. Co., Birmingham, Ala. Liniment. 266,190; July 10. Class 6.

Close, George, Co., The, Cambridge, Mass. Candy. 266,924; July 10. Class 46.

Cohen, Goldman & Co. Inc., New York, N. Y. Men's, boys', and children's outer garments. 265,365; July 10. Class 39.

Combine Hosiery Corporation, Wilmington, Del., and New York, N. Y. Hosiery. 265,891; July 10. Class 39.

Continental Chemical Corporation of Illinois, Watseka, Ill. Powder for cleaning. 244,668; July 10. Class 4.

Contrary Mary Prod. Co. (See French, Mary P.)

Corset Shop, The. (See Auspitz, Florence M.)

Cost Mossides, Barberton, Ohio. Malt extract. 260,902; July 10. Class 46.

Coty, Inc., Wilmington, Del., and New York, N. Y. Lip rouge and lip sticks. 264,715; July 10. Class 6.

Couture, E. A., Modesto, Calif. Fresh grapes. 266,976; July 10. Class 46.

Craney, James H., doing business as George F. Madden & Co., Norwich, Conn. Cigars. 266,302; July 10. Class 17.

Crown Willamette Paper Company, San Francisco, Calif. Paper towels. 266,417–8; July 10. Class 37.

Curtis-Leger Fixture Company, Chicago, Ill. Mannequins, statuettes, models, and figures for window, store, etc., display and parts thereof. 260,879; July 10. Class 50.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905. Sec. 6, as amended Mar. 2, 1907.]

Daltroff, E., & Cie., doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation, New York, N. Y. Pastes, powders, and perfumery. 257,532; July 10. Class 6.

Daniels Manufacturing Company, Rhinelander, Wis. Paper napkins. 261,609; July 10. Class 37.

Davis & Company, St. Louis, Mo. Cordials and beverages. 257,349; July 10. Class 45.

Delubac, Auguste, Vals-Les-Bains, France. Covercoats, waistcoats, coats, pants. 265,625; July 10. Class 39.

Delubac, Auguste, Vals-Les-Bains, France. Medical bandages, bands, and belts, etc. 265,627; July 10. Class 44.

Denver Fire Clay Company, The, Denver, Colo. Air blowers, crushers, and cupel machines. 262,157; July 10. Class 23.

Denver Fire Clay Company, The, Denver, Colo. Air blowers, crushers, and cupel machines. 262,159; July 10. Class 23.

Denver Fire Clay Company, The, Denver, Colo. Sieves of metal, graphite crucibles, etc. 262,160; July 10. Class 26.

Diaz, Felix A., doing business as Laboratoires Filarysine, Santurce, P. R. Pharmaceutical preparation. 266,419; July 10. Class 6.

Dox Company, San Francisco and Emeryville, Calif. Washing and cleaning compound. 266,855; July 10. Class 4.

Drucker, Nathan, doing business as Stop Remedy Co., Newport, Ky. Medicine. 259,224; July 10. Class 6.

Dunn, Max., doing business as M. Dunn & Co., Philadelphia, Pa. Wash frocks. 265,426; July 10. Class 39.

Dunne, Frank W., Co., Oakland, Calif. Prepared enamel paint. 266,797; July 10. Class 16.

Dunne, Frank W., Co., Oakland, Calif. Varnish. 266,798; July 10. Class 16.

Dunne, Frank W., Co., Oakland, Calif. Varnish. 266,800; July 10. Class 16.

Dunne, Frank W., Co., Oakland, Calif. Prepared enamel paint. 266,802; July 10. Class 16.

Duomo Food Products, Inc., New York, N. Y. Rice, macaroni, canned mushrooms, etc. 262,955; July 10. Class 46.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dry colors for shading inks. 265,322; July 10. Class 1.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dry colors. 264,323; July 10. Class 16.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dyes and dyestuffs. 265,427–8; July 10. Class 6.

Eadington Fruit Company, Fullerton, Calif. Fresh citrus fruits. 257,666; July 10. Class 46.

Eagle Food Products Corporation, Memphis, Tenn. Pickles, hot vegetable relishes, sweet-pickle relishes. 257,605; July 10. Class 46.

Earle, Marie, Inc., New York, N. Y. Salve, tonic, and lotion, toilet cream, etc. 261,970; July 10. Class 6.

Easy Manufacturing Co., The. (See Ammon, Charles D.)

Eldinger & Hager, Inc., New York, N. Y. Eggs. 266,982; July 10. Class 46.

Electrical League of Cleveland, Inc., The, Cleveland, Ohio. Publication. 265,150; July 10. Class 38.

Elgin Chocolate Products Co. Inc., Elgin, Ill. 266 651; July 10. Class 46.

Elgin Heights Community, Elgin, Ill. Apples. 266,305; July 10. Class 46.

Elkes, C. H., & Sons Limited, Uttoxeter, England. Biscuits. 267,188; July 10. Class 46.

Ellis-Foster Company, Montclair, N. J. Synthetic resins. 265,370; July 10. Class 6.

Ely & Walker Dry Goods Co., St. Louis, Mo. Shirts, blouses, play suits etc. 264,972; July 10. Class 39.

Emmerich, Chas., and Co., Chicago, Ill. Pillows. 266,983; July 10. Class 32.

Eskimo Pie Corporation, Louisville, Ky. Frozen confections. 264,571; July 10. Class 46.

Eskimo Pie Corporation, Louisville, Ky. Solidified carbon dioxide. 264,572; July 10. Class 6.

Eskimo Pie Corporation, Louisville, Ky. Vacuum jars for the storage of food products. 265,629; July 10. Class 2.

Everett, W. C., & Company, Andrews, N. C. Preparation used in the treatment of pellagra, sore mouth, etc. 265,203; July 10. Class 6.

Farina, Hohann Maria, Inc., New York, N. Y. Eau de cologne. 264,723; July 10. Class 6.

Federal Distributors, Inc., doing business as the Lucky Girl Company, Portland, Oreg. Cocoanut shampoo, perfume, etc. 264,510; July 10. Class 6.

First National Pictures, Inc., New York, N. Y. Motion-picture films, etc. 266,921; July 10. Class 26.

Fisher, Wm., & Co., San Francisco, Calif. Wheat flour, rolled oats, canned evaporated milk, etc. 261,102; July 10. Class 46.

Fogel, Adolph, doing business as Wave-Bak Co., Milwaukee, Wis. Liquid hair wash. 265,374; July 10. Class 6.

Fort Dodge Bottling Works, Fort Dodge, Iowa. Beverages and sirups for making the same. 266,315; July 10. Class 45.

Frazer Paint Company, Detroit, Mich. Paints, paste paints, and paint enamels. 265,100; July 10. Class 16.

French, Mary P., doing business as Contrary Mary Prod. Co., Greenwood, Miss. Confection. 264,514; July 10. Class 46.

Friday Canning Corporation, New Richmond, Wis. Canned vegetables. 260,819; July 10. Class 46.

Fried-Lang Leather Co., Inc., New York, N. Y. Leather. 266,726; July 10. Class 1.

Friedlieb, Jacob, Rockaway Beach, N. Y. Laxative lollypops. 252,468; July 10. Class 6.

G-G Products Company. (See Grossman, George E.)

Galloway Coal Company, Memphis, Tenn. Coal. 264,226; July 10. Class 1.

Gas Grain Treater Co., Portland, Oreg. Grain-treating materials. 258,524; July 10. Class 6.

General Material Company, St. Louis, Mo. Ready-mixed concrete. 265,269; July 10. Class 12.

Gewerkschaft Auguste, Leutnitz, near Rottenbach, Germany. Heavy spar. 262 515; July 10. Class 1.

Gilbert Company, The, Philadelphia, Pa. Medicated chewing gum. 256,621; July 10. Class 6.

Golden Hind Laxative Company, Northampton, Mass. Fruit laxative. 261,312; July 10. Class 6.

Golf Score Watch Company, Incorporated, The, Los Angeles, Calif. Score-registering device for golf. 264,296; July 10. Class 26.

Goodrich-Eshbaugh Chemical Laboratories, Inc., Ossining and New York, N. Y. Medicated chewing gum, tooth powder, etc. 265,900; July 10. Class 6.

Graham Paper Company, St. Louis, Mo. Carpet felt. 235,469; July 10. Class 50.

Grasselli Chemical Company, The, Cleveland, Ohio. Tinning fluxes. 267,043; July 10. Class 6.

Greenbaum, Harry L., doing business as Technical Color and Chemical Works, New York, N. Y. Plastic material. 263,316; July 10. Class 16.

Greenhill and Sons, Ltd., London, England. Buttons, buckles, bag rings, etc. 251,900; July 10. Class 40.

Grey, Manuel, Mexico, Mexico. Medicinal preparation. 264,490–1; July 10. Class 6.

Grossman, George E., doing business as G-G Products Company, Cleveland Heights, Ohio. Polishing compound. 265,641; July 10. Class 16.

Hahne & Company, Newark, N. J. Suits, coats, trousers, etc. 263,761; July 10. Class 39.

Handi-Appliance Corporation, Buffalo, N. Y. Laundry washing machines. 265,643; July 10. Class 24.

Hanford Produce Company, Sioux City, Iowa. Electric refrigerators. 263,040; July 10. Class 31.

Harmony Dress Co., Inc., New York, N. Y. Frocks and dresses. 258,812; July 10. Class 39.

Hartmann Bros. Leather Co., Boston, Mass. Leathers. 266,660; July 10. Class 1.

Hawaiian Packing Company, Ltd., Hilo, Hawaii. Glacé pineapple. 264,580; July 10. Class 46.

Hawaiian Pineapple Products Co., Ltd., San Francisco, Calif., and Iwilei, Hawaii. Canned pineapple. 266,134; July 10. Class 46.

Henckels, J. A., Inc., New York, N. Y. Scissors, shears, and razors. 266,731; July 10. Class 23.

Herkenrath, Hugo, Merscheid, Germany. Table knives and forks, pocketknives, tongs, etc. 262,847; July 10. Class 23.

Herpicide Company, The, Detroit, Mich. Preparation for the treatment of hair and scalp. 266,372; July 10. Class 6.

Herrmann, A. S., Inc., New York, N. Y. Textiles of linen. 260,384; July 10. Class 42.

Hickey, Daniel T., doing business as Maty Surtea Co., (not Inc.), Chicago, Ill. Natural product for food and beverage purposes. 265,167; July 10. Class 46.

Hicks, Thomas W., doing business as Breath of New Mown Hay Co., Minneapolis, Minn. Deodorants, revitalizers, etc. 264,430; July 10. Class 6.

Hills Brothers Company, The, New York, N. Y. Canned cranberry sauce. 260,566; July 10. Class 46.

Hoffman, Charles, New York, N. Y. Dresses. 265,645; July 10. Class 39.

Hopper, Albert M., doing business as A. M. Hopper & Co., New York, N. Y. Laxatives. 257,068; July 10. Class 6.

Hosiery Mills Co., The, Chicago, Ill. Hosiery. 265,546; July 10. Class 39.

Hub Henry C. Lytton & Sons, The, Chicago, Ill. Men's and boys' coats, vests, etc. 263,660; July 10. Class 39.

Hurt, Wilbur T., doing business as Throatex Laboratories, Hollywood, Calif. Bactericidal and germicidal antiseptic solution for sore throat, etc. 266,030; July 10. Class 6.

Hyland, Richard C., doing business as Hyland Bag Company, San Francisco, Calif. Burlap and burlap coverings. 266,171; July 10. Class 42.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main and Berlin, Germany. Insecticides. 266,168; July 10. Class 6.

Ida Kossoff, New York, N. Y. Vegetable fat. 262,568; July 10. Class 46.

Imperial Produce Company, Los Angeles, Calif. Tomatoes. 257,678; July 10. Class 46.

Interstate Cotton Oil Refining Co., Sherman, Tex. All kinds of wooden boxes, crates, and cases. 265,547; July 10. Class 2.

Jacoby, J., Co., Los Angeles, Calif. Knitted underwear, hosiery, and cut and sewed underwear. 265,384; July 10. Class 39.

Janszen Company, The, Cincinnati, Ohio. Brooms. 266,248; July 10. Class 29.

Jend Drug Co. (See Segal, Nathaniel, J.)

Kalbaugh Coal Company, Inc., The, Cumberland, Md. Coal. 266,032; July 10. Class 1.

Kansas City Furniture Manufacturing Co., The, North Kansas City, Mo. Upholstered furniture. 264,758; July 10. Class 32.

Kensington, Alexander B., London, England. Chemically-prepared fertilizer. 265,663; July 10. Class 10.

Kirkpatrick, Laighton H., Walsenburg, Colo. Beverages, sirups, mineral waters, etc. 265,845; July 10. Class 45.

Kline, E. A., doing business as E. A. Kline & Co., New York, N. Y. Ash trays or receivers, cigar and cigarette tubes, etc. 264,309; July 10. Class 8.

Kohorn, Oscar, & Co. (See von Kohorn zu Kornegg, Oscar F.)

Kokomo Steel & Wire Co., Kokomo, Ind. Wire fencing. 266,204; July 10. Class 14.

Kossman, Albert, doing business as Kossman Chemical Co., New Orleans, La. Drain-opening chemical solvent. 257,479; July 10. Class 6.

Krank, A. J., Mfg. Co., St. Paul, Minn. Lip stick. 265,797; July 10. Class 6.

Kring, Victor F., doing business as Dr. Morrison's Medical Research Laboratories, Fort Wayne, Ind. Cough syrups, cod tonic, earache oil, etc. 262,466; July 10. Class 6.

Kronthal, Isador, doing business as Kronthal Manufacturing Company, Chicago, Ill. Children's and misses' hats. 265,158; July 10. Class 39.

Laboratories Filarysine. (See Diaz, Felix, A.)

Largman, Gray Company, Croydon, Pa., and New York, N. Y. Hosiery. 265,482; July 10. Class 39.

Laura Hair Novelty Co., The. (See Thau, Charles K.)

Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Mill feeds. 265,218; July 10. Class 46.

Lesche Myers Cigar Box Co., York, Pa. Wooden cigar boxes. 266,432–3; July 10. Class 2.

Les Etablissements Poulenc Freres, Paris, France. Compounds for the treatment of diabetes and arterial hypertension. 263,709; July 10. Class 6.

Letac Chemical Co., Inc., New York, N. Y. Medicine for use in the treatment of high blood pressure. 265,974; July 10. Class 6.

Levy, M. S., & Sons, Inc., Baltimore, Md., and New York, N. Y. Straw hats for the use of men. 264,762; July 10. Class 39.

Lewis-Wise Co, Inc., New York, N. Y. Robes, dressing gowns, etc. 265,219–21; July 10. Class 39.

Liberty Orchards Company, Cashmere, Wash. Jam. 254,463; July 10. Class 46.

Limonelra Company, doing business as Limonelra Co., Santa Paula, Calif. Oranges, lemons, and grapefruit. 250,850; July 10. Class 46.

Linz Ventilator Company, Pittsburgh, Pa. Sash ventilators. 264,592; July 10. Class 34.

Little Red Wagon Mfg. Co., Omaha, Nebr. Grading machines and parts thereof. 262,098; July 10. Class 23.

Lowe, Harry L., Los Angeles, Calif. Oil-well specialties. 243,225; July 10. Class 23.

Lowenstein, Beatrice, New York, N. Y. Honey buns. 265,338; July 10. Class 46.

Lucas Heating Systems, Inc., Chicago, Ill. Warm-air furnaces. 233,497; July 10. Class 34.

Lucky Girl Company. (See Federal Distributors, Inc.)

Lustrite Corporation, The, New York, N. Y. Finger-nail dressings. 265,160; July 10. Class 6.

Lytzo Company, Chicago, Ill. Liquid fuel for cigar and cigarette lighters. 263,877; July 10. Class 6.

MacFadden Publications Incorporated, New York, N. Y. Title of a column in daily newspaper. 265,799; July 10. Class 38.

Mack, William, doing business as Nu-Song Co., Dayton, Ohio. Bird food. 265,849; July 10. Class 46.

Madden, George F., & Co. (See Craney, James H.)

Majestic Co., The, Huntington, Ind. Desks, chairs, and book ends. 264,526; July 10. Class 32.

Mallinson, H. R., & Co. Inc., New York, N. Y. Silk, silk and rayon, and silk and wool mixture piece goods. 266,941; July 10. Class 42.

Manor Food Products Company, Philadelphia, Pa. Potato sticks. 262,521; July 10. Class 46.

Marochini, Philip, Chicago, Ill. Washing fluid. 263,878; July 10. Class 4.

Marston, Lillian, Buffalo, N. Y. Sanitary refill paper bag linings for garbage cans. 266,470; July 10. Class 2.

Martin, Grace W., doing business as The Martin Company, Winter Garden, Fla. Vegetable relish. 263,553; July 10. Class 46.

Mast, Aaron, doing business as Steinway Perfumery Shop, Long Island City, N. Y. Face lotions, face creams, powders, etc. 264,996; July 10. Class 6.

Master Metal Products Inc., Buffalo, N. Y. Sink strainers. 266,548; July 10. Class 13.

Maty Surtea Co. (See Hickey, Daniel T.)

Mayflower Stucco Company, Plymouth Meeting, Pa. Dry stucco. 265,161; July 10. Class 12.

Mazy (Mrs.), Frank J., Omaha, Nebr. Medicines. 260,398; July 10. Class 6.

McCracken, Florence B., Walla Walla, Wash. Syrup for flavoring. 266,210; July 10. Class 46.

Miller, Mrs. Anna M., Alliance, Nebr. Salad dressing. 263,048; July 10. Class 46.

Miller's, Jacob, Sons Co., Philadelphia, Pa. Men's dress and negligee shirts. 260,285; July 10. Class 39.

Minerva Cigar Corporation, Inc., New York, N. Y. Cigars. 267,201; July 10. Class 17.

Mirror, The, New York, N. Y. Soda water, lemon phosphate, etc. 263,168; July 10. Class 45.

Mirror, The, New York, N. Y. Soda water, lemon phosphate, etc. 263,170; July 10. Class 45.

Mitchell & Dillon Coal Company, Chicago, Ill. Coal. 248,782; July 10. Class 1.

Moret Parfumeur. (See Peoples Drug Stores, Inc.)

Morrison's, Dr., Medical Research Laboratories. (See Kring, Victor F.)

Moskowitz, Emanuel, New York, N. Y. Ladies' frocks. 260,743; July 10. Class 39.

Munsell, J. Guy, doing business as Munsell's Mineral Food Company, Lincoln, Nebr. Preparation for the relief of constipation. 254,642; July 10. Class 6.

Musher and Company, Washington, D. C. Mayonnaise and salad dressings. 266,090; July 10. Class 46.

National Bellas Hess Co. Inc., New York, N. Y. Towels, toweling, and wash cloths. 266,437; July 10. Class 42.

National Lime & Stone Company, The, Findlay, Ohio. Lime plaster. 257,112; July 10. Class 12.

National Machine Tool Company, Racine, Wis. Metal shears. 265,676; July 10. Class 23.

National Magnesia Co. Inc., Brooklyn, N. Y. Laxatives. 266,473; July 10. Class 6.

National Process Company, Inc., New York, N. Y. Posters or form letters and advertising literature. 194,407; July 10. Class 38.

National Stone Company, Kansas City, Mo. Sand, clay, and various grades of stone. 264,529; July 10. Class 1.

National Varnish Company's Chemical Division, Inc., Long Island City, N. Y. Cement paste colors, hardening and waterproofing liquid, etc. 252,271; July 10. Class 12.

Novo Engine Company, Lansing, Mich. Semisteel alloy metal. 264,500; July 10. Class 14.

Nu-Song Co. (See Mack, William.)

Ohio Varnish Company, The, Cleveland, Ohio. Interior paint. 266,554; July 10. Class 16.

Oil Country Specialties Mfg. Co., The, Coffeyville, Kans. Drive heads, swabs, wire-line splicing needles, etc. 218,078; July 10. Class 23.

Oppenheim, Collins & Co., Inc., Wilmington, Del.; New York, Brooklyn, and Buffalo, N. Y.; Newark, N. J.; Philadelphia and Pittsburgh, Pa.; and Cleveland, Ohio. Shoes. 265,802; July 10. Class 39.

Oravox Ltd., London, England. Telephonic apparatus and appliances and accessories. 260,843; July 10. Class 44.

Oriento Manufacturing Co. (See Bedrosian, Milan.)

Pan-Lax Company. (See Brasher, Joseph C.)

Paraffine Companies, Inc., The, San Francisco, Calif. Plastic cement. 229,699; July 10. Class 12.

Pardee, C., Works, The, Perth Amboy, N. J., and Philadelphia, Pa. Tile. 265,854; July 10. Class 12.

Parfumerie Caron. (See Daltroff, E., & Cie.)

Parker Brothers Inc., Portland, Me., and Salem, Mass. Game. 266,878; July 10. Class 22.

Parker, William M., Omaha, Nebr. Blood tonic. 265,233; July 10. Class 6.

Paton, John G., Company, Inc., The, New York, N. Y. Honey. 265,925; July 10. Class 46.

Pena'aquit Drug Company. (See Allaniello, Augustin.)

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Umbrellas. 264,906; July 10. Class 41.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Rubber sheeting (bed and crib sheeting.) 264,910; July 10. Class 50.

Peoples Drug Stores, Inc., doing business as Moret Parfumeur, Washington, D. C. Toilet water, cold cream, powder, etc. 265,009–10; July 10. Class 6.

Perdentin Laboratories, Inc., New York, N. Y. Local anæsthetic. 266 744; July 10. Class 6.

Pfeiffer, S., Mfg. Co., St. Louis, Mo. Medicinal preparations and products. 264,602; July 10. Class 6.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Philippine Tobacco Co., Inc., New York, N. Y. Cigars. 267,206; July 10. Class 17.

Phillips-Jones Corporation, New York, N. Y. Collars and shirts. 265,738; July 10. Class 39.

Piggly Wiggly Corporation, Memphis, Tenn. Coaster wagons and scooters. 251,081; July 10. Class 22.

Piller Bros. & Herschel, Inc., New York, N. Y. Dresses. 265,066; July 10. Class 39.

Pohlig, Edgar W., San Francisco, Calif. Electrotype cuts. 265,293; July 10. Class 50.

Points, Rudolph H., doing business as Point's Seed Farms, Crosby, N. Dak. Field seeds. 265,294; July 10. Class 1.

Price, Pearl S., Buffalo, N. Y. Game. 265,560; July 10. Class 22.

Prigler Company, The, Detroit, Mich. Liniment. 248,055; July 10. Class 6.

Procter & Gamble Company, The, Cincinnati, Ohio. Washing powder. 255,132; July 10. Class 4.

Regent Park Clothes, Inc., Chicago, Ill. Ladies' and men's wearing apparel. 263,014; July 10. Class 39.

Resinous Products and Chemical Company, The, Philadelphia, Pa. Synthetic or chemically-prepared resins. 266,483; July 10. Class 6.

Review of Reviews Corporation, The, New York, N. Y. Section or department of a monthly magazine. 265,566; July 10. Class 38.

Rex Leather Goods Corp., New York, N. Y. Brief cases and school bags. 265,808–9; July 10. Class 3.

Richardson, Dr. R. L., doing business as Richardson Chemical Co., Franklin, Tenn. Ointment. 260,368; July 10. Class 6.

Richter, Charles, doing business as J. M. Anthony & Co., Providence, R. I. Cigars. 266,884; July 10. Class 17.

Riley, Robert W., Los Angeles, Calif. Sandwiches. 267,081; July 10. Class 46.

Rivkin, Morris I., doing business as West Point Knitwear Mills, Philadelphia, Pa. Knitted swimming suits, bathing suits, and sweaters. 265,406; July 10. Class 39.

Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Scouring powder. 266,622; July 10. Class 4.

Rose Bros., New York, N. Y. Topcoats, overcoats, sport coats, etc. 265,451; July 10. Class 39.

Rosenberg, B., & Sons, Inc., New Orleans, La. Boots and shoes. 265,569; July 10. Class 39.

Rosenfeld, Arnold, Silk Corporation, New York, N. Y. Silk piece goods. 267,317; July 10. Class 42.

Roth, O. & Co. A.-G. Export in Schweizerkäse (Emmenthaler), Uster, Switzerland. Cheese. 262,181; July 10. Class 46.

Rothschild, John, & Co. Inc., San Francisco, Calif. Canned deciduous fruits, canned vegetables. 252,066; July 10. Class 46.

Rothschild & Sons, Incorporated, Kansas City, Mo. Pajamas and underwear. 265,410; July 10. Class 39.

Rubay Candy Company, The, Cleveland, Ohio. Candies. 262,936; July 10. Class 46.

Rubenstein, Helena, Inc., New York, N. Y. Face creams. 252,291; July 10. Class 6.

Rugof, Samuel, doing business as Rugof Chemist, New York, N. Y. Sweet spirits of nitre, witch-hazel, etc. 262,771; July 10. Class 6.

Rytex Company, The, Indianapolis, Ind. Writing paper and envelopes. 265,857; July 10. Class 37.

Salter Canning Company, North Rose, N. Y. Canned berries, fruits, and vegetables. 265,298; July 10. Class 46.

San Diego Fruit Company. (See Chula Vista Citrus Association.)

Schettler Drug Company, The, Detroit, Mich. Perfumes, toilet waters, talcum, etc. 264,847; July 10. Class 6.

Schoeneman, J., Incorporated, Baltimore, Md. Coats, vests, trousers, knickerbockers, etc. 265,454; July 10. Class 39.

Schokoladenfabrik Manxion m. b. H., Saalfeld, Germany. Chocolate, cocoa, fruit preserves, etc. 244,961; July 10. Class 46.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Arch supports. 264,201; July 10. Class 44.

Schwelz. Kindermehl-Fabrik, Belp, Switzerland. Infant's food. 259,138; July 10. Class 46.

Scott & Gilbert Co., San Francisco, Calif. Belladonna plasters, healing powder, etc. 264,702; July 10. Class 6.

Seeth, John F., Belerose, N. Y. Canned clam chowder. 266,051; July 10. Class 46.

Segal, Nathaniel J., doing business as Jend Drug Co., Baltimore, Md. Citrate of magnesia. 266,891; July 10. Class 6.

Seminole Manufacturing Co., McAlester, Okla. Men's and boys' work pants, dress pants, etc. 262,773; July 10. Class 39.

Servel, Inc., New York, N. Y. Refrigerators, refrigerator parts, etc. 265,987; July 10. Class 31.

Seymour-Howard Corporation, Chicago, Ill. Antiknock compound. 259,025; July 10. Class 6.

Sha-O-Chem Company, The, Trevorton, Pa. Pharmaceutical preparation. 249,608; July 10. Class 6.

Sha-O-Chem Company, The, Trevorton, Pa. Lung balsam. 249,609; July 10. Class 6.

Shirek & Hirsch, New York, N. Y. Coats, vests, overcoats, etc. 265,861; July 10. Class 39.

Simms Drug Co., St. Louis, Mo. Tonic. 257,203; July 10. Class 6.

Smith, Albert D., & Co., New York, N. Y. Cotton piece goods and shade cloth. 265,932; July 10. Class 42.

Smith, Carroll Dunham, Pharmacal Co., New York, N. Y. Suppositories and ointment. 255,774; July 10. Class 6.

Smith, Kirkpatrick & Co., Inc., New York, N. Y. Ladies' hosiery. 260,855; July 10. Class 39.

Snelson & Sons, Atlanta, Ga. Skin lotion. 260,919; July 10. Class 6.

Societe Parisienne des Produits de Beaute Ganna Walska, Paris, France. Perfumes, eau de cologne, etc. 256,058; July 10. Class 6.

Sotiriades, George, doing business as George Tsioungas, Gary, Ind. Medicine for stomach ailments. 261,843; July 10. Class 6.

Splitdorf Radio Corporation, Newark, N. J. Radiocabinets, loud-speaker cabinets, etc. 265,934; July 10. Class 32.

Sporel Mfg. Co., Brooklyn, N. Y. Medicine for treatment of eczema, itch, etc. 265,580; July 10. Class 6.

Stahelin, F. C., & Son, Bridgman, Mich. Strawberry plants. 265,702; July 10. Class 1.

Stalus, Kleo, Woodside, N. Y. Hair tonic. 256,748; July 10. Class 6.

Steinway Perfumery Shop. (See Mast, Aaron.)

Steppacher, W. M., & Bro., Inc., Philadelphia, Pa. Shirts and pajamas. 265,703; July 10. Class 39.

Stop Remedy Co. (See Drucker, Nathan.)

Strayer, Daniel H., Venice, Calif. Waterproof boxes and receptacles worn or carried by sportsmen, hunters, etc. 264,617; July 10. Class 2.

Style Dress Co., Inc., The, New York, N. Y. Dresses. 265,993; July 10. Class 39.

Styler Shoe Co., Inc., Lynn, Mass. Women's shoes. 265,585; July 10. Class 39.

Superia Laboratories, Inc., Chicago, Ill. Polish or gloss. 264,923; July 10. Class 16.

Taylor Manufacturing Corporation, Los Angeles, Calif. Brake-testing machines. 262,043; July 10. Class 26.

Teague-McKevett Company, Santa Paula, Calif. Oranges, lemons, and grapefruit. 250,871; July 10. Class 46.

Technical Color and Chemical Works. (See Greenbaum, Harry L.)

Thau, Charles K., doing business as The Laura Novelty Co., New York, N. Y. Sanitary napkins. 265,739; July 10. Class 44.

Thomas, Reginald C., Brooklyn, N. Y. Ash trays and cigar and cigarette extinguishers. 254,366; July 10. Class 8.

Thorp, Donald, Rutherford, N. J. Partially-printed laundry lists. 248,206; July 10. Class 37.

Throatex Laboratories. (See Hurt, Wilbur T.)

Tiffany & Company, New York, N. Y. Tobacco pipes, cigar and cigarette holders, etc. 267,156; July 10. Class 8.

Titmus Optical Company, Inc., Petersburg, Va. Optical lenses. 263,840; July 10. Class 26.

Trippe, Barker & Co., New York, N. Y. Dresses for women and children. 265,349; July 10. Class 39.

Tsioungas, George. (See Sotiriades, George.)

Tur Hermanos, Richmond, Va., and New York, N. Y. Licorice. 266,636; July 10. Class 6.

Tybon Corporation, Camden, N. J. Mechanical devices for rewinding ribbons. 264,545; July 10. Class 23.

Ulmann, Bernhard, Co. Inc., New York, N. Y. Yarns. 267,294; July 10. Class 43.

United States Lime Products Corporation, San Francisco, Calif. Hydrated and quick lime. 259,265; July 10. Class 6.

Victor Parting Bead Co., Inc., The, Reading, Pa. Weather strips. 265,864; July 10. Class 12.

Virginia Metal Manufacturing Co., Roanoke, Va. Metal culvert pipe. 265,998; July 10. Class 13.

Voila, Inc. (See Willicombe, Joseph.)

Von Kohorn zu Kornegg, Oscar F., doing business as Oscar Kohorn & Co., Vienna, Austria. Textile machines. 260,543; July 10. Class 23.

Wagner, Günther, Hanover, Germany. Water colors, oil colors. 268,570; July 10. Class 16.

Wall-Keller-McKee Company, The, North Adams, Mass. Mufflers and men's neckties. 265,245; July 10. Class 39.

Wave-Bak Co. (See Fogel, Adolph.)

Wav-Life Laboratories. (See Wilhelm, John.)

Waxolin, Inc., Omaha, Nebr. Dust-absorbing compounds. 264,547; July 10. Class 4.

Wayne Knitting Mills, Fort Wayne, Ind. Hosiery. 266,066; July 10. Class 39.

West Point Knitwear Mills. (See Rivkin, Morris I.)

Weyer, George H., St. Joseph, Mo. Hair tonic. 263,846; July 10. Class 6.

Whitcup, Lester, New York, N. Y. Safety-razor blades. 267,171; July 10. Class 23.

Wilhelm, John, doing business as Wav-Life Laboratories, Chicago, Ill. Pharmaceutical preparation. 265,597; July 10. Class 6.

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Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Domestic refrigerating machines. 265,511; July 10. Class 31.
Willicombe, Joseph, doing business as Volla, Inc., New York, N. Y. Liquid beautifier. 257,948; July 10. Class 6.
Wilmur Neckwear Co., Inc., New York, N. Y. Neckties. 265,710; July 10. Class 39.
Wilson Rayon Products Corporation, New York, N. Y. Rayon fabrics. 267,023; July 10. Class 42.
Wirth, Cyrillus, Bettendorf and Davenport, Iowa. Pharmaceutical preparation. 254,067; July 10. Class 6.
Woodbury Shoe Mfg. Co., Derry, N. H. Boots, shoes, and slippers. 266,004; July 10. Class 39.
Woodbury Shoe Mfg. Co., Derry, N. H. Boots, shoes, and slippers. 266,006; July 10. Class 39.
Woodward, Baldwin & Co., New York, N. Y. Coverlets. 262,784; July 10. Class 42.
You-Tha-Gan Company. (See Baird, Walter.)

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Hops. N. Kaplan. 244,153; July 10.

CLASS 3.

Bags and other fancy bags, etc., Hand. Dutchess Mfg. Co. 244,087; July 10; Serial No. 261,050; published Apr. 24, 1928.
Harness, Animal. James M. Walsh Co. 244,151; July 10.

CLASS 5.

Adhesive mending fluid. W. J. Caley. 244,070; July 10; Serial No. 243,196; published Apr. 24, 1928.
Adhesive paste. American Crayon Company. 244,080; July 10; Serial No. 261,690; published Apr. 24, 1928.
Glues and mucilages. Henning-Orla Bruhn. 244,115; July 10; Serial No. 262,359; published Apr. 24, 1928.

CLASS 6.

Antiseptic wafers. C. D. Scott. 244,121; July 10; Serial 262,416; published Apr. 24, 1928.
Baking powder. Southern Manufacturing Co. 244,103; July 10; Serial No. 239,604; published Apr. 17, 1928.
Chemical and organotherapeutical preparations, etc. Chemische Fabrik "Promonta" Gesellschaft mit beschränkter Haftung. 244,104; July 10; Serial No. 229,148; published Apr. 24, 1928.
Chemical products for the filling, bleaching, and conditioning of leather. Cataract Chemical Company. 244,138; July 10; Serial No. 261,349; published Apr. 17, 1928.
Compound for bronchial coughs and asthma. Austin Laboratories Incorporated. 244,094; July 10; Serial No. 258,564; published Feb. 28, 1928.
Compound for treatment of rheumatism, etc. I. D. Levinson. 244,144; July 10; Serial No. 256,731; published Apr. 17, 1928.
Ergosteral and antirachitic substance containing vitamin D, Activated. Mead Johnson & Company. 244,145; July 10; Serial No. 261,897; published Apr. 17, 1928.
Extract for the treatment of anemia. Fairchild Bros. & Foster. 244,122; July 10; Serial No. 262,306; published Apr. 17, 1928.
Germicide and antiseptic. Clinical Laboratories Company. 244,071; July 10; Serial No. 242,280; published Apr. 10, 1928.
Injections for the treatment of anemia, arthritis, cancer, etc. J. Denk and Company. 244,102; July 10; Serial No. 243,692; published Apr. 17, 1928.
Insecticide. E. A. Klein. 244,133; July 10; Serial No. 261,758; published Apr. 17, 1928.
Insecticide. McCormick & Co. 244,124; July 10; Serial No. 262,368; published Apr. 24, 1928.
Leather stuffing. Kind of. Martin Dennis Company. 244,130; July 10; Serial No. 261,894; published Apr. 24, 1928.
Liniment. First National Laboratories, Incorporated. 244,140; July 10; Serial No. 260,816; published Apr. 17, 1928.
Liniment. J. E. Scott. 244,118; July 10; Serial No. 262,531; published Apr. 24, 1928.
Medical preparation. S. L. Young. 244,159; July 10.
Medicated inhaler. Cockburn & Co. Ltd. 244,143; July 10; Serial No. 257,147; published Apr. 17, 1928.
Medicinal powder for treatment and relief in pyorrhea. R. E. Grabel. 244,127; July 10; Serial No. 262,025; published Apr. 17, 1928.
Medicinal preparation. C. A. Lesiak. 244,119; July 10; Serial No. 262,470; published Apr. 24, 1928.
Medicinal preparation. F. E. Sanders. 244,142; July 10; Serial No. 257,998; published Apr. 24, 1928.
Medicinal wash. M. A. Ferdon. 244,137; July 10; Serial No. 261,619; published Apr. 24, 1928.
Medicine. A. Lazarus. 244,149; July 10.
Perfume droppers having in combination therewith a lip stick. Coty, Inc. 244,141; July 10; Serial No. 258,070; published Apr. 24, 1928.
Perfumes. Wm. H. Brown & Bro. Company. 244,131; July 10; Serial No. 261,788; published Apr. 24, 1928.
Perfumes. E. J. Fay. 244,146 July 10; Serial No. 256,181; published Dec. 13, 1927.
Plaster, Restorative medical. J. D. Hays. 244,139; July 10; Serial No. 261,192; published Apr. 17, 1928.
Preparation for chills, fever, etc. Howell Company. 244,117; July 10; Serial No. 263,213; published Apr. 24, 1928.
Preparation for growing hair. L. R. York. 244,134; July 10; Serial No. 261,728; published Apr. 17, 1928.
Preparation for neuritis, etc. M. Tobin. 244,129; July 10; Serial No. 261,917; published Apr. 24, 1928.
Preparation for stopping runs in hosiery, etc. A. R. Bellerose. 244,123; July 10; Serial No. 262,387; published Apr. 17, 1928.
Preparation for the complexion. I. M. Folsom. 244,098; July 10; Serial No. 253,883; published Apr. 24, 1928.
Preparation for the relief of inflammation and pain. J. Kramer. 244,126; July 10; Serial No. 262,225; published Apr. 24, 1928.
Preparation for the treatment of colds. Dr. F. Raschig. 244,099; July 10; Serial No. 251,413; published Apr. 24, 1928.
Repellent and seed-corn disinfectant, Cutworm and gopher. I. McEwen. 244,125; July 10; Serial No. 262,239; published Apr. 17, 1928.
Rouges, lip sticks, face creams, etc. J. E. Ellis, Limited. 244,120; July 10; Serial No. 262,451; published Apr. 17, 1928.
Syrup, Cough. H. M. Phillips. 244,135; July 10; Serial No. 261,646; published Apr. 24, 1928.
Tablets and capsules. A. E. Mallard. 244,136; July 10; Serial No. 261,639; published Apr. 17, 1928.
Tonic, Hair. C. Donnatides. 244,100; July 10; Serial No. 250,233; published Apr. 24, 1928.
Tooth paste. Pan Pacific Products, Incorporated. 244,128; July 10; Serial No. 261,981; published Apr. 17, 1928.

CLASS 12.

Doors, Metal fire. F. L. Salno Manufacturing Co. Inc. 244,160; July 10.
Fireplaces. Readybuilt Products Company. 244,136; July 10.

CLASS 13.

Nuts for bolts and other threaded members. MacLean-Fogg Nut Company. 244,105; July 10; Serial No. 252,852; published Sept. 27, 1927.

CLASS 16.

Carbon black. Grasselli Chemical Company. 244,116; July 10; Serial No. 262,357; published May 1, 1928.
Lacquer reducer. Syrup Products Company. 244,081; July 10; Serial No. 261,534; published May 1, 1928.
Paint enamel. Morgan Company. 244,132; July 10; Serial No. 251,770; published May 1, 1928.
Paint, lacquer, varnish, and enamel paint. W. P. Fuller & Co. 244,064; July 10; Serial No. 256,114; published Jan. 3, 1928.
Paint, stains, paint enamels, etc. Merchant's & Manufacturer's Paint Co. 244,092; July 10; Serial No. 259,777; published May 1, 1928.
Paints and wall coverings similar to paints. Tex-Ryte Products Corporation. 244,078; July 10; Serial No. 261,997; published May 1, 1928.
Paints, Ready-mixed. Trinson Steel Company. 244,110; July 10; Serial No. 262,580; published Apr. 24, 1928.
Varnishes, paste, paints, etc. Flood & Conklin Company. 244,114; July 10; Serial No. 262,452; published May 1, 1928.

CLASS 22.

Fishing reels. Enterprise Manufacturing Company. 244,085–6; July 10; Serial Nos. 261,247–8; published Apr. 24, 1928.
Golf balls. Advertising Golf Ball Corporation. 244,112; July 10; Serial No. 262,501; published Apr. 24, 1928.
Golf balls. Peoples Drug Stores, Inc. 244,107; July 10; Serial No. 262,970; published May 1, 1928.
Golf tees. Granby Manufacturing Company. 244,090; July 10; Serial No. 260,728; published May 1, 1928.
Punching bags, boxing gloves, knuckle protectors, etc. S C & E Manufacturing Corporation. 244,095; July 10; Serial No. 258,430; published Apr. 24, 1928.

Swings, baby toddlers, doll sulkies, etc., Children's. Perfection Manufacturing Company. 244,069; July 10; Serial No. 248,922; published Apr. 24, 1928.
Toy aeroplanes, Mechanical. J. Chein & Co. 244,068; July 10; Serial No. 250,010; published July 26, 1927.
Toy game, Educational reading. Shulman & Sons. 244,076; July 10; Serial No. 262,267; published May 1, 1928.
Toys and games. E. L. Ilson, 244,063; July 10; Serial No. 256,191; published May 1, 1928.

CLASS 23.

Can opener. Lancaster Metalcraft Corp'n. 244,161; July 10.
Saws, Coping. F. P. Maxson. 70,995; renewed Oct. 20, 1928.
Tools, machines, and devices, Thread-cutting. Oster Manufacturing Company. 70,024; renewed July 21, 1928.
Typewriting machines. Sun Typewriter Company. 71,321; renewed Nov. 17, 1928.

CLASS 32.

Beds, Concealable. California Wall Bed Company. 244,163; July 10.

CLASS 37.

Paper, Bond. Carter-Rice & Carpenter Paper Co. 244,150; July 10.

CLASS 42.

Cotton flannels. Roanoke Mills Company. 244,074; July 10; Serial No. 230,571; published Dec. 6, 1927.
Cotton piece goods and shade cloth. Albert D. Smith & Co. 244,153; July 10.
Piece goods. Carter & Rogers. 244,067; July 10; Serial No. 250,489; published Aug. 2, 1927.
Woolens in the piece. Great Grimsby Textile Company. 244,147; July 10.

CLASS 44.

Applicators and hand massaging implements. A. Merke. 244,093; July 10; Serial No. 259,741; published May 1, 1928.
Atomizers for perfume and the like. Marcel Franck, Inc. 244,077; July 10; Serial No. 262,235; published May 1, 1928.
Douches for women. M. Gottlieb. 244,101; July 10; Serial No. 245,840; published May 1, 1928.
Electrical apparatus. Martin Brothers Electric Company. 244,083; July 10; Serial No. 261,371; published May 1, 1928.
Electro apparatus for permanent waving of hair. G. E. Bjorkman. 44,097; July 10; Serial No. 254,071; published Apr. 24, 1928.
Foot-corrective appliances. Scholl Mfg. Co. Inc. 244,108; July 10; Serial No. 262,938; published May 1, 1928.
Machines for drying hair. Martin Brothers Electric Company. 244,082; July 10; Serial No. 261,372; published May 1, 1928.
Nursing-bottle nipples or caps made of rubber. Davol Rubber Company. 244,079; July 10; Serial No. 261,704; published May 1, 1928.
Teeth, Tooth facings, and tooth backings, Artificial. Columbus Dental Manufacturing Co. 244,109; July 10; Serial No. 262,702; published May 1, 1928.

CLASS 46.

Apples, dried beans, eggs, etc., Fresh. Hobbs-Parsons Company. 244,072; July 10; Serial No. 240,711; published Apr. 24, 1928.
Bread, cookies, rolls, pies, etc. Manning's, Inc. 244,066; July 10; Serial No. 254,141; published Apr. 24, 1928.
Canned fruits, vegetables, fish, etc. John H. Lock Co. 244,162; July 10.
Caviar in tins and jars. Heller Brothers Importing Co. 244,152; July 10.
Cheese. Davis Bros. Cheese Co. 244,089; July 10; Serial No. 260,810; published Apr. 24, 1928.
Confections, Frozen. L. Hicks. 244,088; July 10; Serial No. 260,824; published Apr. 17, 1928.
Extract, Pure barley-malt. A. J. Coleman. 244,062; July 10; Serial No. 250,765; published Apr. 24, 1928.
Feed, Dairy and poultry. Statesville Flour Mills Company. 244,113; July 10; Serial No. 262,492; published Apr. 24, 1928.
Flour, Cake. Igleheart Brothers, Inc. 244,091; July 10; Serial No. 260,569; published Apr. 24, 1928.
Flour, Pancake. D. J. Toomey Milling Co. Inc. 244,084; July 10; Serial No. 261,290; published Apr. 24, 1928.
Flour, Wheat. Bernet, Craft & Kauffman Milling Company. 244,075; July 10; Serial No. 229,894; published July 12, 1927.
Flour, Wheat. Pillsbury Flour Mills Company. 244,073; July 10; Serial No. 238,870; published Apr. 24, 1928.
Flour, Wheat. Polar Milling Company. 244,106; July 10; Serial No. 263,013; published Apr. 24, 1928.
Flour, Wheat. Schultz, Baujan & Company. 244,148; July 10.
Ham and bacon. Van Wagenen and Schickhaus Company. 244,154; July 10.
Mayonnaise, Thousand Island dressing, and prepared mustard. Leader Food Products Co. 244,111; July 10; Serial No. 262,520; published Apr. 24, 1928.
Milk, Dried. D. Engle. 244,096; July 10; Serial No. 258,408; published Mar. 6, 1928.
Sauce Bordelaise, sauce Newburg, etc. Steele-Wedeles Company. 244,065; July 10; Serial No. 255,472; published Jan. 31, 1928.
Vegetables, Fresh. D'Arrigo Bros. Co. 244,158; July 10
Vegetables, Fresh. C. W. Osborne. 244,157; July 10.

ALPHABETICAL LIST OF LABELS.

Alpa Special. For Malt Syrup. J. Husar. 34,274; July 10.
Bouquet. For Culinary flavors. Eugene Lehrhaupt and Joseph Lehrhaupt. 34,275; July 10.
California Dream. For Fresh Oranges. 34,268; July 10.
Chigger-Chaser. For Chigger Powder. V. H. Schoffelmayer. 34,285; July 10.
Cyclone. For Game. L. S. Ross. 34,284; July 10.
De Berard. For Fresh Grapes. W. H. Deberard. 34,270; July 10.
De Parse. For Hair Tonic. W. Gerner. 34,271; July 10.
Dexter Artzilk Boil-Proof Colors. For Embroidery Floss. Collinghourne Mills, Inc. 34,269; July 10.
Drink A-Bite-To-Eat at 10-2 & 4 O'Clock. For a Soft Drink, Nonalcoholic Beverage. Dr. Pepper Company. 34,278; July 10.
Faith. For Sheeting. Riverside & Dan River Cotton Mills, Inc. 34,283; July 10.
Gooby-Sticks. For Food Confection. B. F. Goodwin. 34,272; July 10.
Greenfield's Punch. For Concentrated Beverage. Greenfield Vintage Company. 34,273; July 10.
Kilit. For a Preparation for Killing Bugs, Insects, etc. H. H. Lipsky. 34,276; July 10.
Mt. Baker Brand. For Toilet Paper. Pacific Coast Paper Mills. 34,277; July 10.
Prima Barley Malt Extract. For Malt Extract. Rialto Malt Extract Co. 34,282; July 10.
Puritan Malt Bohemian Hop Flavored. For Malt Extract. Puritan Malt Extract Co. 34,280; July 10.
Puritan Malt Extract. For Malt Extract. Puritan Malt Extract Co. 34,279; July 10.
Rialto Malt, an All Barley Malt Extract. For Malt Extract. Rialto Malt Extract Co. 34,281; July 10.
Soderholm's Swedish Rye. For Bread. Soderholm Baking Company. 34,286; July 10.
Superb Pure Malt Syrup. For Malt Syrup. Superb Malt Extract Co. 34,288; July 10.
Vogue. For Brassières, Bandettes, Girdles, Girdle and Brassière Combined, Brassière and Corset Combined. Vogue Brassière Manufacturing Co. 34,289; July 10.
Ward's Cakes. For Cake. Ward Baking Company. 34,290; July 10.
Watona. For Linoleum Rugs. E. M. Stanley. 34,287; July 10.
Wrigley's Pink P. K. For Chewing Gum. Wm. Wrigley Jr. Company. 34,291; July 10.

ALPHABETICAL LIST OF PRINTS.

A Good Splatter of Heinz Salad Cream on This Cr'sp, Succulent Salad. For Salad Cream. H. J. Heinz Company. 11,015; July 10.
Are You a Mother Who Guesses? For Talcum Powder for Nursery and Toilet Use. Crystal Chemical Company. 11,005; July 10.
Are You Unconsciously Making Your Child a Victim of Neglect? For Talcum Powder for Nursery and Toilet Use. Crystal Chemical Company. 11,001; July 10.
Beauty and Health are Often Lost at the Danger Line. For Dental Cream. E. R. Squibb & Sons. 11,044; July 10.

Beauty Can be Destroyed at the Danger Line. For Dental Cream. E. R. Squibb & Sons. 11,041; July 10.
Beauty Creations Coty. For Rouge and Lip Stick. Coty, Inc. 10,999; July 10.
Before You Buy a Mineral Oil it is Important That You Know The Distinct Advantages of Squibb's Liquid Petrolatum. For Liquid Petrolatum. E. R. Squibb & Sons. 11,034; July 10.
Bellows Action of B. V. D. For Athletic Underwear. B. V. D. Company. 10,995; July 10.
Can You Afford to Neglect This Warning? For Dental Cream. E. R. Squibb & Sons. 11,043; July 10.
Coconut Pie. For Franklin Baker's Coconut. Postum Company. 11,024; July 10.
Delicious! . . . Post Toasties With Fresh or Canned Fruits. For Post Toasties. Postum Company. 11,023; July 10.
Dentists Tell The Three Fundamentals of Mouth Hygiene. For Dental Cream. E. R. Squibb & Sons. 11,050; July 10.
Dependable Heating Service. For Coal. Rochester Coal Merchants' Assn. 11,030; July 10.
Devil's Food Cake with Coconut Icing. For Franklin Baker's Coconut. Postum Company. 11,027; July 10.
Elizabeth Arden is in Personal Touch with You. For Venetian Toilet Preparations. Elizabeth Arden, Inc. 10,990; July 10.
Everfresh. For Egg Preserver. Rolland Products Company. 11,031; July 10.
Every Time You Eat, The Danger Line is Threatened. For Dental Cream. E. R. Squibb & Sons. 11,054; July 10.
Fabrics, Their Origin and Manufacture. For Soap. Colgate & Co. 10,997; July 10.
Fast, Easy Shaves Without Irritation—Because Hydrolysis Is Controlled. For Shaving Cream. E. R. Squibb & Sons. 11,049; July 10.
Fine Food—Rare Flavor. For Walter Baker's Cocoa. Postum Company. 11,028; July 10.
For Summertime Drinks Make Baker's Cocoa Syrup. For Baker's Cocoa Syrup. Postum Company. 11,021; July 10.
Fresh Air for the Skin. For Athletic Underwear. B. V. D. Company. 10,992; July 10.
Good-Wingfoot-Year Truck Tires Traction and Long Wear. For Tires Composed Wholly or in Part of Rubber. Goodyear Tire & Rubber Company. 11,014; July 10.
Guess What—Lift The Cover—Aha!—Spaghetti. For Cooked Spaghetti in Tomato Sauce with Cheese. H. J. Heinz Company. 11,016; July 10.
Guild Set Tiles. For Guild Set Tiles. Tile & Mantel Contractor's Association of America. 11,055; July 10.
His Crying Pleads With You. For Talcum Powder for Nursery and Toilet Use. Crystal Chemical Company. 11,010; July 10.
I Love the Flavor. For Post Toasties. Postum Company. 11,026; July 10.
It is Hydrolysis That Causes so Many Men to Dread Shaving. For Shaving Cream. E. R. Squibb & Sons. 11,053; July 10.
It Isn't Always Temper. For Talcum Powder for Nursery and Toilet Use. Crystal Chemical Company. 11,003; July 10.
It's Ripe Tobacco. For Cigars. Bayuk Cigars Incorporated. 10,991; July 10.
Let Your Body Breathe. For Athletic Underwear. B. V. D. Company. 10,994; July 10.
More Than a Cry—A Warning! For Talcum Powder for Nursery and Toilet Use. Crystal Chemical Company. 11,008; July 10.
New and Delicious Ways to Serve Coconut. For Baker's Coconut. Postum Company. 11,020; July 10.
Pointing a 10,000-Pound Gun as Easily as You Might Point a Pistol. For S K F Bearings. S. K. F. Industries, Inc. 11,032; July 10.
Popular Fiction Unit. For Three Magazines Published Every Month—Namely, True Confessions, Screen Secrets, and Love Affairs. Fawcett Publications, Inc. 11,012; July 10.
Popular in the Men's Ward—This Satisfying Dish. For Wheat Breakfast Food. Cream of Wheat Co. 11,000; July 10.
Post Toasties Double-Crisp and Full of Flavor. For Post Toasties. Postum Company. 11,022; July 10.
Read How to Guard Your Children's Teeth and Gums. For Dental Cream. E. R. Squibb & Sons. 11,039; July 10.
Ribbons of Gold. For Egg Noodles. Gold Rolled Food Products Co. 11,013; July 10.
Shaving Will Leave Your Face Refreshed if Hydrolysis Is Controlled. For Shaving Cream. E. R. Squibb & Sons. 11,048; July 10.
66⅔ of all Babies Suffer This Torture—Needlessly! For Talcum Powder for Nursery and Toilet Use. Crystal Chemical Company. 11,009; July 10.
Soap its Origin Manufacture and Use. For Soap. Colgate & Co. 10,998; July 10.
Spico. For Ice-Cream Confection. E. M. McGowan. 11,018; July 10.
Squibb's Milk of Magnesia is a Welcome Relief to Child Patients. For Milk of Magnesia. E. R. Squibb & Sons. 11,045; July 10.
Squibb's Milk of Magnesia is Made and Advertised in Strict Accordance With the Ideals of the Medical Profession. For Milk of Magnesia. E. R. Squibb & Sons. 11,051; July 10.
Suppose You couldn't Talk. For Talcum Powder for Nursery and Toilet Use. Crystal Chemical Company. 11,004; July 10.
Take That Irritation Out Of The Morning Shave. For Shaving Cream. E. R. Squibb & Sons. 11,033; July 10.
Teaching Texas to Drink A-Bite to Eat. For Dr. Pepper, a Soft Drink. Dr. Pepper Company. 11,019; July 10.
The Coin-A-Day Home Savings Bank. For Savings Banks. Coin Covenant Corporation. 10,996; July 10.
The Conquest of Pain. For Ether. E. R. Squibb & Sons. 11,036; July 10.
The Danger that Lurks in an Infant's Cry. For Talcum Powder for Nursery and Toilet Use. Crystal Chemical Company. 11,006; July 10.
The 'Irritation Cry' . . . Watch For it in Your Baby! For Talcum Powder for Nursery and Toilet Use. Crystal Chemical Company. 11,011; July 10.
The New Books First. Lindner Library. For Books, Hats, Stockings, Underwear, Dresses, Gloves, Suits and Coats, Aprons, Uniforms, Evening Gowns, and Wraps. Lindner Co'y. 11,017; July 10.
The Pity of It—. For Dental Cream. E. R. Squibb & Sons. 11,035; July 10.
The Priceless Touch of an Artist. For Venetian Toilet Preparations. Elizabeth Arden, Inc. 10,989; July 10.
The Real Torture Behind an Infant's Cry. For Talcum Powder for Nursery and Toilet Use. Crystal Chemical Company. 11,007; July 10.
The Rise of Preventive Medicine. For Medicine. E. R. Squibb & Sons. 11,052; July 10.
To Men Who Complain About 'A Tender Skin'. For Shaving Cream. E. R. Squibb & Sons. 11,038; July 10.
22 or 45 is There an Age When Women Must Cease to Look Young? For Dental Cream. E. R. Squibb & Sons. 11,047; July 10.
What an Infant's Cry would tell You, if it could. For Talcum Powder for Nursery and Toilet Use. Crystal Chemical Company. 11,002; July 10.
When The Recipe Says Chocolate. For Walter Baker's Chocolate. Postum Co. 11,029; July 10.
Will You Take the Word of 50,000 Dentists? For Dental Cream. E. R. Squibb & Sons. 11,046; July 10.
With Walter Baker's Chocolate—This Cake Favorite. For Walter Baker's Chocolate. Postum Company. 11,025; July 10.
Why does Underwear wear out? For Athletic Underwear. B. V. D. Company. 10,993; July 10.
Why Risk This Pain? For Dental Cream. E. R. Squibb & Sons. 11,040; July 10.
Why They Call it The Danger Line. For Dental Cream. E. R. Squibb & Sons. 11,037; July 10.
Youth and Health are Priceless Gifts. For Dental Cream. E. R. Squibb & Sons. 11,042; July 10.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 10TH DAY OF JULY, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A-V. Burner Company. (See Axtell, J. M., and Von Hofen, assignors.)
Abbott Laboratories, The. (See Adams, R., and Volwiler, assignors.)
Absolute Con-Tac-Tor Corporation. (See Phelan, Louis A. M., assignor.)
Absolute Con-Tac-Tor Corporation. (See Phelan, L. A. M., and Hotchkiss, assignors.)
Adam, Frank, Electric Co. (See Stieglitz, Henry M., assignor.)
Adams, Edwin J., Little Falls, N. Y. Baby carriage. 1,677,011; July 10.
Adams, Nathan H. (See Fuller, T. S., Adams, and Nolte.)
Adams, Roger, Urbana, and E. H. Volwiler, assignors to The Abbott Laboratories, Chicago, Ill. Production of esters of aromatic acids. 1,676,470; July 10.
Aehischer, Joseph. (See Smallhouse, Albert A., assignor.)
Aero, Tovarna Ctadel. (See Arigi, Julius, assignor.)
Affel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Radio signaling system. 1,676,240; July 10.
Akers, J. B. (See Luzzi, August F., assignor.)
Aktien-Gesellschaft für Schmiertecknik. (See Conrad, Ewald, assignor.)
Albach, Frank, assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Cabinet and locker. 1,676,235; July 10.
Albright, Henry F., jr., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Feeding mechanism. 1,676,606; July 10.
Alden Manufacturing Co. (See Alden, Milton, assignor.)
Alden, Milton, assignor to Alden Manufacturing Co., Springfield, Mass. Telephone plug. 1,677,068; July 10.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. System of electric ship propulsion. 1,676,312; July 10.
Alkan, Robert, and G. Lesourd, Paris. Device for releasing projectiles on aircraft. 1,676,762; July 10.
Allen, Howard E., Lima, Ohio. Two-cycle gas engine. 1,676,512; July 10.
Allied Packers, Inc. (See Cushman, Arthur W., assignor.)
Altemus, Jacob K., Philadelphia, Pa. Yarn-winding machine. 1,676,374; July 10.
Aluminum Die-Casting Corporation. (See Bungay, George W., assignor.)
Alvey Manufacturing Company. (See Bohn, William J., assignor.)
American Bemberg Corporation. (See Kempf, Hubert, assignor.)
American Can Company. (See Loesel, Nicholas, assignor.)
American Can Company. (See Magill, Donald G., assignor.)
American Can Company. (See Pittelkow, August, assignor.)
American Circular Loom Company. (See Lutz, George A., assignor.)
American Crayon Company, The. (See Parmenter, George E., assignor.)
American Encaustic Tiling Company. (See Prouty, Theodore C. and W. O., assignors.)
American Engineering Company. (See Kelly, P. C., and Landis, assignors.)
American Engineering Company. (See Lamond, Robert C., assignor.)
American Meter Company. (See Huettig, Arno R., assignor.)
American Ornamental Bottle Corporation. (See Mas, George N., assignor.)
American Potash & Chemical Corporation. (See Mumford, Russell W., assignor.)
American Range Corporation. (See Zarth, Henry F., assignor.)
American Sales Book Company, Limited. (See Bottle, Edward K., assignor.)
American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)
American Telephone and Telegraph Company. (See Blackwell, O. B., and Martin, assignors.)
American Telephone and Telegraph Company. (See Carpe, Allen, assignor.)
American Telephone and Telegraph Company. (See Coxhead, Harry B., assignor.)
American Telephone and Telegraph Company. (See Toomey, John F., assignor.)
American Tool Works Company, The. (See Robinson, A. E., and Sosa, assignors.)
American Vitrified Products Company. (See Colwell, David M., assignor.)
American Window Company. (See Lewis, Claude A., assignor.)
American Wiremold Company. (See Frederickson, Otto A., assignor.)
Amsden, Ralph D., Lynn, Mass., assignor to General Electric Company. Vibratory converter. 1,676,973; July 10.
Anchor Cap and Closure Corporation. (See Hardiman, James S., assignor.)
Anchor Cap and Closure Corporation. (See Podel, Abraham, assignor.)
Anderson, Arvid E., Schenectady, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,676,313; July 10.
Anderson, Arvid E., Schenectady, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,676,314; July 10.
Anderson, Arvid E., Schenectady, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,676,315; July 10.
Anderson, Arvid E., Schenectady, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,676,974; July 10.
Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,676,316; July 10.
Anderson, Church, Los Angeles, Calif. Oil burner for furnaces. 1,676,471; July 10.
Anderson, John G., Crestwood, and R. H. Waldo, assignors to John Wanamaker, New York, New York, N. Y. Golf-ball box. 1,676,975; July 10.
Anderson, Paul, Vasteras, Sweden. Machine for the sintering of ore and the like. 1,676,720; July 10.
Anderson, Preston W., Los Angeles, Calif. Cradles. 1,676,420; July 10.
Anderson, Swan F., Rockford, assignor by mesne assignments to C. P. Parker, trustee, Chicago, Ill. Rubbing machine. 1,677,112; July 10.
Andrews, Isaac, Spartanburg, S. C. Loom reed. 1,676,513; July 10.
Anetsberger, Frank A. and W., Chicago, Ill. Humidifying apparatus. 1,676,763; July 10.
Anetsberger, William. (See Anetsberger, Frank A. and W.)
Angle, Glenn D., and G. E. A. Hallett, Dayton, Ohio. Engine cylinder. 1,676,976; July 10.
Anstey, Tracey J., Oakland, Calif. Wedge closure fastener. 1,676,515; July 10.
Anthony, Wendell P., Ridley Park, Pa., assignor to The Mynol Chemical Company. Hypodermic syringe. 1,676,881; July 10.
Antoniola, Alessandro. (See Casati, P., and Antoniola.)
Arigi, Julius, Marianske Lazne, assignor to the firm: Aero Továrna Ctadel, Praha-Vysocany, Czechoslovakia. Combined lock and latch. 1,677,012; July 10.
Arkell Safety Bag Company. (See Widmer, Howard G., assignor.)
Armstrong, Frederick A., Kirksville, Mo. Nipple applicator. 1,676,236; July 10.
Armstrong, Lyman P., San Jose, Calif. Convertible furniture. 1,676,514; July 10.
Arrowood, Reuben H., assignor of one-half to M. M. Mier, Los Angeles, Calif. Cutter for ice cream and similar products. 1,677,115; July 10.
Art Metal Construction Company. (See Ulrich, Charles B., assignor.)
Asbury, Dorsey F., Broomes Island, Md. Gearing. 1,676,421; July 10.
Astle, William. (See Neal, S. G., Astle, and Wilson.)
Astley, Edward F., assignor to H. M. Seyer, Chicago, Ill. Brush. 1,676,812; July 10.
Atlantic Refining Company, The. (See Smith, L. B., and Jamison, assignors.)
Atwater, Harry A., assignor to Combustion Equipment Company, Kansas City, Mo. Oil burner. 1,676,813; July 10.
Atwood Machine Company, The. (See Bradley, E. E., and Rowe, assignors.)
Au, Bertha B., et al. (See Au, Carl H., assignor.)
Au, Carl H., assignor to B. B. Au and J. K. Hoyt, Washington, D. C. Recorder. 1,676,848; July 10.
Austin, Nellie F. (See Austin, William S., assignor.)
Austin, William J. (See Crummey, J. D., Austin, and Lewis.)

Austin, William S., assignor of one-half to N. F. Austin, Kansas City, Mo. Attachment for typographical machines. 1,676,516; July 10.
Automatic Electric Inc. (See Crocker, Thomas F., assignor.)
Automatic Electric Inc. (See Homrighous, John H., assignor.)
Automatic Electric Inc. (See Ostline, John E., assignor.)
Automatic Electric Inc. (See Wicks, John, assignor.)
Automatic Straight Air Brake Company. (See Neal, Spencer G., assignor.)
Automatic Straight Air Brake Company. (See Neal, S. G., Astle, and Wilson, assignor.)
Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Vegetable slicer. 1,676,241; July 10.
Ayars Machine Company. (See Ayars, Charles H., assignor.)
Axelrod, Meyer L., assignor to Ohio Chemical & Manufacturing Company, Cleveland, Ohio. Dental flask. 1,676,677; July 10.
Axtell, Jay M., and F. G. Von Hofen, assignors to A.-V. Burner Company, Fort Worth, Tex. Circulating gas burner. 1,676,472; July 10.
Bach, Oscar B., New York, N. Y. Decorative panel for metal work. Des. 75,709; July 10.
Baines, Joseph E., Pittsburgh, and J. P. Bosie, Mount Oliver, assignors to National Tube Company, Pittsburgh, Pa. Chuck-operating mechanism. 1,676,814; July 10.
Baker, Dudley M. (See Moore, Henry W., assignor.)
Baker, John H., Royal Oak, Mich. Mixing device. 1,676,237; July 10.
Baker Ranking Company, The. (See Stahl, Edward J., assignor.)
Baldus, Paul C. (See Wollensak, A. C., Jacobs, and Baldus.)
Baldwin, James V. (See Van Hise, Lester E., assignor.)
Ballou, B. A., & Co. (See Ballou, F. A., jr., and Morehouse, assignors.)
Ballou, B. A., & Co. (See Ballou F. A., and Stafford, assignors.)
Ballou, Frederick A., jr., and E. Morehouse, Providence, R. I., assignors to B. A. Ballou & Co., Inc., Providence, R. I. Guard for stickpins. 1,676,376; July 10.
Ballou, Frederick A., Nayatt, and R. T. Stafford, East Providence, assignor to B. A. Ballou & Co., Inc., Providence, R. I. Shoe strap. Des. 75,710; July 10.
Barany, Edmund R., Brooklyn, N. Y., assignor to French Battery Company, Madison, Wis. Flash light. 1,676,849; July 10.
Barber, Howard M., Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Collecting folding, and delivery mechanism for printing presses. 1,676,882; July 10.
Barling, Walter H., Astoria, N. Y. Empennage and plane arrangement. 1,677,069; July 10.
Bartholdy, Max, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gauge with a precision indicator for testing the flank diameter of external threads. 1,676,721; July 10.
Bartlett, George M., Indianapolis, Ind. Flexible shaft coupling. 1,676,242; July 10.
Basel, Eli A., Kansas City, Mo. Controlling means for multiple fuel burners. 1,676,764; July 10.
Bassick Company, The. (See Moore, R. G., and Claude-Mantle, assignors.)
Bassick Manufacturing Company, The. (See Carr, Moses F., assignor.)
Bassick Manufacturing Company, The. (See Davis, Ernest W., assignor.)
Bassick Manufacturing Company, The. (See Murphy, Howard, J., assignor.)
Bassick Manufacturing Company, The. (See Zerk, Oscar V., assignor.)
Bateman, Louis C., West Ealing, London, England. Compound rubber tread. 1,677,013; July 10.
Batty, Harold L., West Croydon, England, assignor to Eastman Kodak Company, Rochester, N. Y. Package for photographic mounts. 1,676,238; July 10.
Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 75,711; July 10.
Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 75,712; July 10.
Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 75,713; July 10.
Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 75,714; July 10.
Baum, David, Livermore Falls, Me. Shoe locater for shoe-turning machines. 1,676,722; July 10.
Baumgarten, Paul, Richmond Hill, N. Y. Combination chair and window seat. 1,676,723; July 10.
Bean Spray Pump Co. (See Crummey, J. D., Austin, and Lewis, assignors.)
Beaney Rubber Company Inc. (See Beaney, Thomas A., assignor.)
Beaney, Thomas A., Poughkeepsie, assignor to Beaney Rubber Company Inc., New York, N. Y. Machine for cutting off and preparing stock strips. 1,676,883; July 10.
Beatty, Douglas T., Birmingham, Ala., assignor to Sand Spun Patents Corporation, Wilmington, Del. Method of and apparatus for lining pipes. 1,676,815; July 10.
Beaumont, R. H., Company. (See Beaumont, Robert H., assignor.)
Beaumont, Robert H., Radnor, assignor to R. H. Beaumont Company, Philadelphia, Pa. Mechanism for operating winding-drum friction clutches. 1,676,765; July 10.
Becker, Arman E., Newark, N. J., assignor to Standard Oil Development Company. Distillation. 1,676,724; July 10.
Belden, Katheryne L., Peoria, Ill. Toy. 1,676,884; July 10.
Bell Telephone Laboratories, Incorporated. (See Black, Harold S., assignor.)
Benford, Frank A., Schenectady, N. Y., assignor to General Electric Company. Reflectometer. 1,677,014; July 10.
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin Electric Manufacturing Company. (See Niemann, George F., assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Housing construction. 1,676,239; July 10.
Bennett, George L., Cleveland, Ohio. Metallic stairway. 1,676,317; July 10.
Bennett, Raymond B., assignor to Montague City Rod Company, Montague City, Mass. Level-winding fishing reel. 1,676,678; July 10.
Bensinger, Wilson, Lodi, Ohio. Concrete fence post. 1,676,679; July 10.
Benton, Curran S., Port Huron, Mich. Bean separator. 1,677,015; July 10.
Berentsen, Gertrude M., Wauwatosa, Wis. Seat cover for infants' toilets. 1,676,243; July 10.
Berger Manufacturing Company, The. (See Schmitz, Fred A., assignor.)
Bergmann, Christian N., assignor to Bergmann Packaging Machine Company, Pittsburgh, Pa. Unit-measuring machine. 1,676,377; July 10.
Bergmann, Christian N., Pittsburgh, Pa.; E. Z. Taylor, Newark, N. J.; and C. Taylor, Hartford, Conn., assignors to Bergmann Packaging Machine Company, Pittsburgh, Pa. Cover-placing mechanism for unit-measuring machines. 1,676,378; July 10.
Bergmann, Conrad, assignor to Columbia Steel Equipment Company, Philadelphia, Pa. Drawer mount. 1,676,991; July 10.
Bergmann, George, assignor to Columbia Steel Equipment Company, Philadelphia, Pa. Drawer mount. 1,676,992; July 10.
Bergmann Packaging Machine Company. (See Bergmann, Christian N., assignor.)
Bergmann Packaging Machine Company. (See Bergmann, C. N., E. Z., and C. Taylor, assignors.)
Berry, Edward R., Malden, Mass., assignor to General Electric Company. Quartz applicator. 1,677,016; July 10.
Besse, David J., San Angelo, Tex. Air cooler. 1,677,070; July 10.
Best, Harry A., assignor to H. A. Best Lamp Company, Chicago, Ill. Finial. 1,676,422; July 10.
Best, H. A., Lamp Company. (See Best, Harry A., assignor.)
Bethenod, Joseph, Paris, France. System for the electric transmission of signals along lines for power distribution. 1,676,680; July 10.
Beveridge, Ernest G., Brooklyn, assignor to R. Hoe & Co., Inc., New York, N. Y. Counting mechanism. 1,676,939; July 10.
Bible, P. M., et al. (See Jones, Hugh J., assignor.)
Biers, Chris T., Lamoille, Ill. Rim for vehicle wheels. 1,676,725; July 10.
Bigney, S. O., Company. (See Payette, Joseph A., assignor.)
Bing, Bridget T., New York, N. Y. Sanitary toilet-seat cover. 1,676,940; July 10.
Birdsey, Charles R., Hinsdale, Ill., assignor to United States Gypsum Company, Chicago, Ill. Apparatus for making lap-edged plaster sheathing board. 1,676,318; July 10.
Birkholz, Richard G., Milwaukee, Wis., assignor to Penn Metal Company, Cambridge, Mass. Expanded-metal machine. 1,676,517; July 10.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Electric flasher switch mechanism. 1,676,850; July 10.
Black, Harold S., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Reducing cross talk in carrier-current signaling systems. 1,676,627; July 10.
Blackwell, Otto R., Plandome, N. Y., and De L. K. Martin, West Orange, N. J., assignors to American Telephone and Telegraph Company. Multiple channel radioreceiver. 1,676,244; July 10.
Bluetz, Harry M., assignor to Royal Electrotype Company, Philadelphia, Pa. Backing electrotype plates. 1,676,628; July 10.
Blair, John G., Poplar, England. Lighting ships' lifeboats and the like. 1,676,977; July 10.

Blanchard, Frederick C., assignor to Detroit Lubricator Company, Detroit, Mich. Lubricator. 1,676,473; July 10.
Bleuel, William H., Detroit, Mich. Spring-forming machine. 1,676,598; July 10.
Bloch, Leon. (See Richards, P. R., and Bloch.)
Bloodhart, John W., assignor to Midland Chemical Laboratories, Inc., Dubuque, Iowa. Liquid dispenser. 1,676,851. July 10.
Boardman, Charles H., Columbus, Ohio. Vehicle for children. 1,677,017; July 10.
Bobbitt, Ralph D., Norfolk, Va. Crown bearing. 1,677,071; July 10.
Boehm, Edward, Duluth, Minn. Baby walker. Des. 75,715; July 10.
Hoehringer, C. H., Sohn Chemische Fabrik. (See Häussler, Alfred, assignor.)
Bohn, William J., assignor to Alvey Manufacturing Company, St. Louis, Mo. Conveyer. 1,676,978; July 10.
Bolduc, David J., San Francisco, Calif. Metal hair tube. 1,676,681; July 10.
Boles, Sherman L., San Francisco, Calif. Adjustable head for golf clubs. 1,676,518; July 10.
Bolinder, Erik A., Stockholm, Sweden. Dovetailed stave for barrels and casks. 1,676,319; July 10.
Bonat & Bro. et al. (See Mack, Carl, assignor.)
Bonat, Harry, et al. (See Mack, Carl, assignor.)
Bonat, Samuel, et al. (See Mack, Carl, assignor.)
Boos, August N. E., New York, N. Y. Recording apparatus. 1,676,629; July 10.
Borkman, George F., Salt Lake City, Utah. Eccentrically-pivoted armature mounting for vibratory units. 1,676,380; July 10.
Bosie, Jacob P. (See Baines, J. E., and Bosie.)
Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Sales-check holder. 1,676,726; July 10.
Boxboard Products Company. (See Kondolf, Mathias R., assignor.)
Boye, James H., Chicago, Ill. Curtain and portière rod. Des. 75,716; July 10.
Boye, James H., Chicago, Ill. Curtain and portière rod. Des. 75,717; July 10.
Boye, James H., Chicago, Ill. Curtain and portière rod. Des. 75,718; July 10.
Bradley, Edward E., Stonington, Conn., and I. R. Rowe, Westerly, R. I., assignors to The Atwood Machine Company, Stonington, Conn. Winding and reeling machine. 1,676,885; July 10.
Brandt, Abram, assignor to Jos. Brandt & Bro., New York, N. Y. Artificial-horsehair upholstery fabric. 1,676,886; July 10.
Brandt, Carl A. (See Brooks, C. E., and Brandt.)
Brandt, Carl A., Great Neck, N. Y. Water screen. 1,676,245; July 10.
Brandt, Jos., & Bro. (See Brandt, Abram, assignor.)
Branum, Solomon C., assignor of one-half to J. E. Mason, Oklahoma City, Okla. Sack holder. 1,676,852; July 10.
Brase, Wilhelm, assignor of one-half to C. Graaff, Berlin, Germany. Sewing machine with several needles. 1,676,853; July 10.
Braun, Gaius A. (See Maury, Alfred D., assignor.)
Braun, Philip N., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Garment press. 1,676,423; July 10.
Breidenbach, George, Chicago, Ill. Removable closure. 1,676,379; July 10.
Breitenstein, Arthur L., deceased, Akron, Ohio; M. E. Breitenstein, administratrix. 1,676,630; July 10.
Breitenstein, Maude E., administratrix. (See Breitenstein, Arthur L.)
Breneman, Paul E., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Body construction. 1,676,599; July 10.
Brettschneider, William F., St. Paul, Minn. Signal. 1,676,766; July 10.
Briggs, Frederick, assignor to Briggs Packing Co., Washington, D. C. Openwork container for treating meats. 1,676,816; July 10.
Briggs Packing Co. (See Briggs, Frederick, assignor.)
British Aluminum Company, The. (See Gwyer, A. G. C., and Phillips, assignors.)
Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Furnace-wall construction. 1,676,246; July 10.
Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Water-tube boiler. 1,676,631; July 10.
Brooks, Charles E., Montreal, Canada, and C. A. Brandt, Great Neck, N. Y.; said Brandt assignor to The Superheater Company, New York, N. Y. Steam locomotive. 1,676,247; July 10.
Broughton, Arthur E., Minneapolis, Minn. Machine and method for drying macaroni. 1,676,474; July 10.
Brown, E. T. (See Hochstein, Ludwig, assignor.)
Browne, Lyle W., assignor to The Fisher Governor Company, Marshalltown, Iowa. Liquid-controlling device. 1,677,096; July 10.
Brunhoff, Edward, Cincinnati, Ohio. Display and vending apparatus. 1,676,682; July 10.
Brunhoff, Edward, Wyoming, Ohio. Humidor display lid. 1,676,683; July 10.
Brütsch, Hans. (See Knecht, O., and Brütsch.)
Bryant, William L., Springfield, Vt. Micrometer gauge. 1,676,248; July 10.
Buckland, Bruce O., and G. B. Warren, Schenectady, N. Y., assignors to General Electric Company. Geared turbine installation. 1,677,026; July 10.
Bukow, Reinhold, Long Island City, assignor to Hardman, Peck & Co., New York, N. Y. Tracking device. 1,676,475; July 10.
Bulla, Horace E. (See Reed, M. L., and Bulla.)
Bundy, Philander R., Indianapolis, Ind. Rim lock. 1,676,684; July 10.
Bungay, George W., Plainfield, assignor to Aluminum Die-Casting Corporation, Garwood, N. J. Hydraulic construction. 1,676,249; July 10.
Burdette, Richard S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Sectional air bag. 1,676,817; July 10.
Burns, Elmer G., Los Angeles, Calif. Vacuum tank. 1,676,767; July 10.
Burroughes, William J., London, England, assignor of one-third to F. A. Roden and one-third to C. Taylor, Santa Monica, Calif. Boiler bottom. 1,676,320; July 10.
Burrows, Charles W., New York, assignor, by mesne assignments, to Magnetic Analysis Corporation, Long Island City, N. Y. Method of and apparatus for testing magnetizable objects. 1,676,632; July 10.
Buttolph, Leroy J., Grantwood, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Transformer and circuit. 1,676,768; July 10.
Byers, Burwell B. (See Fortune, Drury D., assignor.)
Caldwell, Edwin, New York, N. Y. Clutch pencil. 1,676,250; July 10.
Caldwell, Frank W. (See Fales, E. N., and Caldwell.)
Callison, Abner F., New York, N. Y. Swiveled wheel for supporting portable containers. 1,676,381; July 10.
Cammen, Leon, New York, N. Y. Apparatus for the annealing of metals in continuous cold rolling. 1,676,685; July 10.
Canadian Electro Products Company. (See Matheson, Howard W., assignor.)
Cantu, Tomas, Elgin, Tex. Garden roller. 1,676,941; July 10.
Cape Cod Shop. (See Moore, Henry W.)
Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Diaphragm control for projection printers. 1,676,600; July 10.
Carbo-Oxygen Company. (See Rose, James R., assignor.)
Carlson, Alexander, assignor to Dayton-Wright Company, Dayton, Ohio. Automobile body construction. 1,676,476; July 10.
Carlson, Carl A., San Francisco, Calif. Windshield wiper. 1,677,018; July 10.
Carpe, Allen, New York, N. Y., assignor to American Telephone and Telegraph Company. Secrecy signaling system. 1,676,321; July 10.
Carpentier, Ateliers J., et al. (See Verdan, C., and Loiseau, assignors.)
Carr, Arthur J., et al. (See Foster, Clarence B., assignor.)
Carr, Edward G., Chicago, Ill. Road-form connection. 1,676,477; July 10.
Carr Fastener Company. (See Carr, Fred S., assignor.)
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,677,097; July 10.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Carbridge, Mass. Fastener. 1,676,882; July 10.
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fatener. 1,676,883; July 10.
Carr, Moses F., Lexington, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricating apparatus. 1,676,424; July 10.
Carter, Clarence W., assignor to Carter-Mayhew Manufacturing Company, Minneapolis, Minn. Dockage tester. 1,676,519; July 10.
Carter, Floyd, Gridley, Ill. Harvesting machine for soy beans and the like. 1,676,521; July 10.
Carter, Hazel H., Norwood, Ohio. Can opener. 1,676,520; July 10.
Carter, John D., Lansdowne, Pa. Composite board. 1,676,727; July 10.
Carter-Mayhew Manufacturing Company. (See Carter, Clarence W., assignor.)
Casati, Pietro, and A. Antoniola, Turin, Italy. Arrangement for eliminating the dangers due to back fires in carburetors. 1,677,019; July 10.
Casterline, Edwin D., assignor to J. E. Casterline, Oakland, Calif. Roll-material holder. 1,676,854; July 10.
Casterline, Julia E. (See Casterline, Edwin D., assignor.)
Cavanaugh, Leo C., Youngstown, Ohio. Fountain toothbrush. 1,676,601; July 10.
Central Scientific Company. (See Stannard, Winfield H., assignor.)
Cesar, Gyula, Sopron, Hungary, assignor of one-half to S. Toth. Organ-pipe construction. 1,676,942; July 10.
Chamberlin, John R., Branxville, N. Y. Core-drill bit. 1,676,887; July 10.
Chambers, Bryan, et al. (See Starkweather, George E., assignor.)

Champion Manufacturing Company. (See Dunbaugh, George J., jr., assignor.)
Chandler, Henry Thomas, New York, N. Y. Bearing steel. 1,676,384; July 10.
Chapman, Ralph E., Brooklyn, N. Y. Apparatus for packing joints. 1,676,425; July 10.
Cheatham, Chester W., assignor of one-half to J. N. Nissen, Seattle, Wash. Measuring weir. 1,676,855; July 10.
Cheek, Tolbert F., assignor, by mesne assignments, to Welte-Mignon Corporation, New York, N. Y. Record-controlled musical instrument. 1,676,633; July 10.
Cheeseman, Ralph T., Lynn, Mass., assignor to General Electric Company. Vibratory converter. 1,676,979; July 10.
Cheney, Byron M., Chicago, Ill. Bearing plate for rail anchors. 1,676,888; July 10.
Chéron, Jules J., Paris, France. Fountain brush. 1,676,857; July 10.
Cheshier, Reuel C., assignor to Schlosser Brothers, Incorporated, Frankfort, Ind. Thermostatic control. 1,676,478; July 10.
Chicago Hardware Foundry Company. (See Wackerle, Lewis E., assignor.)
Chicago Trust Company, trustees. (See Kus, Thomas G., assignor.)
Childs, William L. (See Humason, G. A., and Childs.)
Chilton, Roland, Keyport, N. J., assignor, by mesne assignments, to Healey-Aeromarine Bus Company, Inc. Driving mechanism. 1,676,322; July 10.
Christenson, Harold, Savannah, Ga. Pedal-actuating device. 1,676,686; July 10.
Christensen, Niels A., Cleveland, Ohio. Brake-control valve. 1,676,980; July 10.
Christianson, Arnold and C., Hammond, Ind. Car-door structure. 1,676,426; July 10.
Christianson, Christian. (See Christianson, Arnold and C.)
Churcher, William B., assignor to The White Motor Company, Cleveland, Ohio. Automotive head lamp. 167,760; July 10.
Cincinnati Grinders Incorporated. (See Norton, Charles H., assignor.)
Cincinnati Victor Company, The. (See Ryder, Charles D., assignor.)
Clamp Nail Company. (See Jensen, Carl C., assignor.)
Clark, Emery E., Topeka, Kans. Rotary amusement device. 167,522; July 10.
Clark, George S., Huntington, W. Va. Lamp holder. 1,677,072; July 10.
Clark, John M., assignor to Universal Button Fastening and Button Company, Detroit, Mich. Germent loop. 1,676,770; July 10.
Claud-Mantle, Arthur. (See Moore, R. G., and Claud-Mantle.)
Clay, Marshall F., Canton, Ohio. Window ventilator. 1,676,251; July 10.
Claybourn, Leslie W., Milwaukee, Wis. Forming molds for printing plates. 1,676,602; July 10.
Clayton, Nephi W., Salt Lake City, Utah. Liquid-vending apparatus. 1,677,113; July 10.
Clemetson, Selmer A., and O. H. Rasmussen, Iron Mountain, Mich. Electric lamp lock. 1,676,323; July 10.
Clow, Samuel C. (See Winter, August P., assignor.)
Cohen, George, New York, N. Y. Building material. 1,677,073; July 10.
Coleman, A. B. (See Morris, Jolly L., assignor.)
Coleman, Stewart P., Cambridge, Mass., and W. S. Hughes, Goose Creek, Tex., assignors to Standard Oil Development Company. Reclaiming distillation residue. 1,676,687; July 10.
Colgan, John R., Kansas City, Mo. Lapel pin or the like; Des. 75,719; July 10.
Collins, Thomas A., et al. (See Foster, Clarence B., assignor.)
Collins, Wallace E. J. (See Wood, Sidney C., assignor.)
Columbia Steel Equipment Company. (See Bergmann, Conrad, assignor.)
Columbia Steel Equipment Company. (See Bergmann, George, assignor.)
Colwell, David M., assignor to American Vitrified Products Company, Akron, Ohio. Structural block. 1,676,385; July 10.
Combustion Equipment Company. (See Atwater, Harry A., assignor.)
Compagnie Francaise pour l'Exploitation des Procedes Thomson-Houston et al. (See Verdan, C., and Loiseau, assignors.)
Conner, William H., Berkeley, Calif. Tire-rim tool. 1,676,634; July 10.
Conrad, Ewald, Quasnitz, near Leipzig, assignor to the firm Aktien-Gesellschaft für Schmiertechnik, Leipzig, Germany. Grease cup. 1,676,523; July 10.
Conrad, George R., Watson, Mo. Aerial. 1,676,524; July 10.
Conrader, Rudolph, Erie, Pa. Pump-controlling mechanism. 1,676,818; July 10.
Constantin, Louis, Paris, assignor of one-half to Fortier-Beaulieu, Roanne, France. Connecting windmills with electric generators. 1,677,027; July 10.
Container Corporation of America. (See Walter, Harrison B., assignor.)
Conti, Emile, Alfortville, France. Shock-absorbing means for automobiles. 1,676,525; July 10.
Cook Electric Company. (See Persons, Lawrence M., assignor.)
Cook, William A., and E. P. Stroup, assignors to Marion Machine, Foundry & Supply Company, Marion, Ind. Soot blower. 1,676,479; July 10.
Cooke, James, New York, assignor of one-half to W. A. Creamer, Brooklyn, N. Y. Incandescent-lamp lock. 1,676,728; July 10.
Cooney, Thomas F., West Haven, Conn. Juice extractor; Des. 75,720; July 10.
Cooper Hewitt Electric Company. (See Buttolph, Leroy J., assignor.)
Cooper Hewitt Electric Company. (See Malley, Roy D., assignor.)
Cooper Hewitt Electric Company. (See Malley, R. D., and Winninghoff, assignors.)
Cooper Hewitt Electric Company. (See Millar, George A., assignor.)
Cooper Hewitt Electric Company. (See O'Shea, James P., assignor.)
Cooper Hewitt Electric Company. (See Walker, Warren R., assignor.)
Cooper, Leopold. (See Olson, O. E., and Cooper.)
Corcoran, Thomas J., assignor to the Thos. J. Corcoran Lamp Co., Cincinnati, Ohio. Closure fastener and glass retainer. 1,677,074; July 10.
Corcoran, Thos. J., Lamp Co., The. (See Corcoran, Thomas J., assignor.)
Corrigan, Frederick S., Toronto, Ontario, assignor, by mesne assignments to General Steel Wares Limited, Toronto, Canada. Sink drainage board. 1,676,771; July 10.
Costello, Michael, Jersey City, N. J. Compound condiment holder. 1,676,635; July 10.
Cotter, Luke. (See Murphy, D. F., and Cotter.)
Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)
Coughlin, James M., Wilkes-Barre, Pa. Ventilator. 1,676,324; July 10.
Cox, Joseph B., Tulare, Calif. Low-tire-pressure signal. 1,676,526; July 10.
Cox, Walter, and A. Shuman, assignors to Pennsylvania Wire Glass Company, Philadelphia, Pa. Process and apparatus for making sheet glass. 1,676,772; July 10.
Cox, Walter, and A. Shuman, assignors to Pennsylvania Wire Glass Company, Philadelphia, Pa. Making corrugated wire glass. 1,676,773; July 10.
Coxhead, Harry B., Hollis, N. Y., assignor to American Telephone and Telegraph Company. Multiple-channel radioreceiver. 1,676,252; July 10.
Coxon, John B., assignor to Kokomo Sanitary Pottery Company, Kokomo, Ind. Closet tank. Des. 75,721; July 10.
Creamer, Wilcox A. (See Cooke, James, assignor.)
Crimp, John A., Yakima, Wash. Air pump. 1,676,527; July 10.
Critchfield, Robert M., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Sound signal. 1,676,528; July 10.
Crocker, Bertram E., Los Angeles, Calif. Making synthetic carbonaceous coke briquettes for metallurgical uses. 1,676,729; July 10.
Crocker, Charles T., Fitchburg, Mass. Soaking machine employed in making paper. 1,676,636; July 10.
Crocker, Thomas F., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,676,480; July 10.
Cronk, Wesley M., Burlingame, assignor to Master Products Corporation, San Francisco, Calif. Brake-testing gauge. 1,676,774; July 10.
Crook, Charles M., and A. E. Long, assignors to Stromberg Electric Company, Chicago, Ill. Time-controlled mechanism. 1,676,253; July 10.
Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
Crummey, John D., W. J. Austin, and F. H. Lewis, assignors to Bean Spray Pump Co., San Jose, Calif. Conveyer. 1,676,481; July 10.
Cuendet, Maurice E., Lausanne, Switzerland, assignor to Eastman Kodak Company, Rochester, N. Y. Camera shutter. 1,676,529; July 10.
Cummings, James D., assignor of one-half to C. J. Manuagh, Houston, Tex. Boom attachment for tractors. 1,676,688; July 10.
Cupples Company, Manufacturers. (See Fleischli, John A., assignor.)
Cushman, Arthur W., Winnetka, assignor to Allied Packers, Inc., Chicago, Ill. Preparing smoked joint meats. 1,676,730; July 10.
Cutler, Clarence, W., Chicago, Ill. Eyeglasses. 1,676,819; July 10.
Cutler-Hammer Mfg. Co., The. (See Evans, Clarence T., assignor.)
Czorboy, Mihaly S., et al. (See Molnar, Zoltan, assignor.)
Dahl, Berent O., Viroqua, Wis. Trap. 1,676,427; July 10.
Danielson, Ernest G., San Francisco, Calif. Variable condenser. 1,677,020; July 10.
Danley, Warren E., Highland Park, assignor to Fansteel Products Company, Inc., North Chicago, Ill. High-frequency filament-heating means. 1,677,021; July 10.
Danna, Salvatore A. (See Plowman, Arthur S., assignor.)
Dargavel James B., St. Paul, Minn. Humidifier for cigar cases. 1,676,943; July 10.

Darrow, Burgess, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Wheel mounting. 1,676,820; July 10.
Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,676,428; July 10.
Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,676,429; July 10.
Davis, Ernest W., Oak Park, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricating system. 1,676,386; July 10.
Davis, George C., assignor to G. M. Davis Regulator Company, Chicago, Ill. Gas-relief valve. 1,676,889; July 10.
Davis, G. M., Regulator Company. (See Davis, George C., assignor.)
Davis, Roy P. M. (See McClelland, William H., assignor.)
Davison, Lawrence, Edmon, assignor of one-fourth to W. Goudy and one-fourth to D. H. Slonaker, Avonmore, Pa. Guard bracket for electric wires. 1,676,944; July 10.
Dayton-Wright Company. (See Carlson, Alexander, assignor.)
Delany, Edward L., assignor to Delany Realty Corporation, Brooklyn, N. Y. Flush-valve float for flush tanks. 1,676,430; July 10.
Delany Realty Corporation. (See Delany, Edward L., assignor.)
De Lapotterie, Otto H., assignor to R. H. Smith, Kent, Ohio. Threading nut blanks. 1,676,482; July 10.
Delco-Remy Corporation. (See Critchfield, Robert M., assignor.)
Delco-Remy Corporation. (See Jones, Russell G., assignor.)
Delco-Remy Corporation. (See McConnell, Duncan A., assignor.)
Delco-Remy Corporation. (See Rippingille, Edward V., assignor.)
De Lorme, Alfred C., Newark, N. J. Battery connector. 1,676,387; July 10.
De Luxe Metal Furniture Company. (See Levene, Albert H., assignor.)
De Montmollin, Guillaume. (See Straub, F. de Montmollin, and Schmid.)
Denman, Clifford K., Los Angeles, Calif. Automobile hood illumination. 1,676,431; July 10.
De Rensis, Guglielmo, Sarzana, Italy. Apparatus for the manufacture of bottles and other glass hollow ware. 1,676,981; July 10.
Despard, Victor E., assignor to McGill Manufacturing Company, Valparaiso, Ind. Husk or socket housing. 1,676,254; July 10.
Detroit Lubricator Company. (See Blanchard, Frederick C., assignor.)
Deutschmeister, Abraham, New York, N. Y. Advertisement carrier. 1,677,022; July 10.
Deutschmeister, Herman, New York, N. Y. Combination sample and phamplet carrier. 1,677,023; July 10.
Dewar, James, Chicago, Ill. Cinder-notch stopper. 1,676,530; July 10.
Di Bona, George, and T. Jellow, Quincy, Mass. Producing designs upon stones. 1,676,637; July 10.
Dick, Hugo P., assignor to Merrimack Manufacturing Company, Lowell, Mass. Pile fabric. Des. 75,722; July 10.
Dick, William R., San Diego, Calif. Cooking and heating appliance. 1,676,603; July 10.
Dicks, George F., Homedale, Idaho. Railroad-tie spacer. 1,676,982; July 10.
Dieterich, Francis L., Newark, N. J. Packing material and gasket made therefrom. 1,676,432; July 10.
Dittlinger, Alphons, E. V., jr., and N., St. Louis, Mo. Liquid-quantity-indicating device. 1,676,255; July 10.
Dittlinger, Emil V., jr. (See Dittlinger, Alphons, E. V., jr., and N.)
Dittlinger, Nicholas. (See Dittlinger, Alphons, E. V., jr., and N.)
Dodd, Richard H., Stockton, Calif. Transfer-filer hanger. 1,676,531; July 10.
Doetsch & Bauer Company. (See Bauer, Carl, assignor.)
Doherty Research Company. (See Kitchen, John F., assignor.)
Doherty, Thomas P., Providence, R. I. Plumber's tool. 1,676,775; July 10.
Dohme, Alfred R. L., assignor to Sharp & Dohme, Inc., Baltimore, Md. Normal amylyl resorcinol. 1,677,116; July 10.
Dohme, Alfred R. L., assignor to Sharp & Dohme, Inc., Baltimore, M. Iso-butyryl resorcinol. 1,677,117; July 10.
Doll, William S., Akron, Ohio. Mandrel. 1,676,325; July 10.
Donnelly, R. D., et al. (See Peaden, William H., assignor.)
Dorsey, Leonard E., Coatesville, Pa. Radio tuning dial. 1,677,075; July 10.
Dotterweich, Andrew J., Pittsburgh, Pa. Apparatus for treating water. 1,676,532; July 10.
Dougherty, Leslie E., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Press. 1,676,821; July 10.
Dover Manufacturing Company, The. (See Johnson-Vea, Charles T., assignor.)
Drake, Clarence E. (See Kienast, S. P., and Drake.)
Drake, Otto S., Newburgh, N. Y. Speaker unit. 1,676,890; July 10.
Draper Corporation. (See Northrop, Jonas, assignor.)
Dreilick, Axel C. G., Sundsvall, Sweden. Tool for joining wooden articles. 1,676,326; July 10.
Drieghe, Maurice, Butte, Mont. Gun sight. 1,676,533; July 10.
Dual Motors Corporation. (See Streeter, Albert B., assignor.)
Dubilier Condenser Corporation. (See Nyman, Alexander, assignor.)
Dufour, Joseph, Guatemala City, Guatemala. Defibrating machine. 1,677,076; July 10.
Dunbaugh, George J., jr., assignor to Champion Manufacturing Company, Chicago, Ill. Liquid-level-indicating means. 1,676,534; July 10.
Dunkelberg, Ralph C., Fort Wayne, Ind. Apparatus for filtering and softening water. 1,676,891; July 10.
Dunn, Hugh, Falkirk, Scotland. Machine for finishing book covers by lining, lettering, or ornamenting. 1,676,892; July 10.
Du Pont, E. J., de Nemours & Company. (See Kramer, Richard L., assignor.)
Dura Company, The. (See Jackson, Shuman R., assignor.)
Duthie, William E., Indianapolis, Ind. Valve grinder. 1,676,483; July 10.
Dwyer, Robert E., Concord, N. H. Indian club. 1,676,689; July 10.
Eastham, Joseph S., assignor to Willamette Iron and Steel Works, Portland, Oreg. Load binder for lumber carriers. 1,676,638; July 10.
Eastman Kodak Company. (See Batty, Harold L., assignor.)
Eastman Kodak Company. (See Capstaff, John G., assignor.)
Eastman Kodak Company. (See Cuendet, Maurice E., assignor.)
Eastman Kodak Company. (See Frederick, Charles W., assignor.)
Eastman Kodak Company. (See Fritts, Edwin C., assignor.)
Eastman Kodak Company. (See Jones, John G., assignor.)
Eastman Kodak Company. (See Sheppard, Samuel E., assignor.)
Eastman Kodak Company. (See Wittel, Otto, assignor.)
Eaton, John, Schenectady, N. Y., assignor to General Electric Company, Brake. 1,677,024; July 10.
Edelman, Philip E, Chicago, Ill. Stabilizing means for radio receiving systems. 1,676,256; July 10.
Ehrlich, John B., Portland, Oreg. Fireplace. 1,676,484; July 10.
Eisele, Louis F., Philadelphia, Pa. Fireplace attachment. 1,676,893; July 10.
Electrad, Inc. (See Richter, Henry G., assignor.)
Elliot, William S., assignor to Pro-phy-lac-tic Brush Company, Northampton, Mass. Shifting device for positioning mechanism for brush machines. 1,676,640; July 10.
Elliot, William S., and G. E. Lindgren, assignors to Prophy-lac-tic Brush Company, Northampton, Mass. Handle-feeding mechanism for brush machines. 1,676,639; July 10.
Ellis, Carleton, Montclair, N. J. Quality of sulphur. 1,676,604; July 10.
Ellis, Laurence V., New York, N. Y. Dry-cell battery. 1,676,945; July 10.
Engel, Philip C., Minneapolis, Minn. Pie plate. Des. 75,723; July 10.
English, William E. (See Hannan, J. R., and English.)
Enterprise Tinware Company. (See Pfeffer, Morris, assignor.)
Eremeeff, Ivan I., Dayton, Ohio. Barometric device. 1,676,983; July 10.
Eschenbach, Gustavus W., Los Angeles, Calif. Interchangeable panoramic-picture blocks. 1,676,641; July 10.
Estill, Spencer C., and J. A. Todd, Fort Worth, Tex. Brick or tile veneer binder. 1,676,535; July 10.
Evans, Clarence T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor starter. 1,676,388; July 10.
Evers, Arthur J., Chicago, Ill. Electrical switching mechanism. 1,676,433; July 10.
Fales, Elisha N., Dayton, Ohio, and F. W. Caldwell, Lookout Mountain, Tenn. Visualizing air-flow phenomena. 1,676,984; July 10.
Falken, August, Jamaica, N. Y. Bookmarker. 1,676,644; July 10.
Fansteel Products Company. (See Danley, Warren E., assignor.)
Faries Manufacturing Company. (See Peters, Henry M., assignor.)
Faulds, Norval M., Clearwater, Fla. Device for porch curtains. 1,676,327; July 10.
Fechheimer, Carl J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Centrifugal pump. 1,676,946; July 10.
Feisthamel, Frederick L., et al. (See Foster, Clarence B., assignor.)
Felty, Edna F., Philadelphia, Pa. Educational chart. 1,676,328; July 10.
Ferber, Herman G., and J. A. Luyben, Fort Wayne, Ind. Vacuum cleaner. 1,676,858; July 10.

Ferkel, Karl A., Los Angeles, Calif. Temperature-indicating means. 1,676,536; July 10.
Field, Oscar S., Roselle, N. J., assignor, by mesne assignments, to Union Switch & Signal Co., Swissvale, Pa. Light socket. 1,677,114; July 10.
Finch, Paul R., assignor to A. C. White, Des Moines, Iowa. Liquid-pumping apparatus. 1,676,822; July 10.
Finucane, Daniel J., Brooklyn, N. Y. Leader-pipe strap. 1,676,485; July 10.
Firestone Tire and Rubber Company, The. (See Stevens, Horace D., assignor.)
Fisher Governor Company, The. (See Browne, Lyle W., assignor.)
Fitzgerald Manufacturing Company, The. (See Reichold, Ludwig, assignor.)
Flannery, John F., Carbondale, Pa. Vehicle headlight. 1,676,690; July 10.
Flarsheim, Edwin S. (See Liebel, J. G. H., and Flarsheim.)
Flarsheim, Edwin S., assignor of one-half to J. G. H. Liebel, Cincinnati, Ohio. Time switch. 1,677,107; July 10.
Fleischli, John A., Clayton, assignor to Cupples Company, Manufacturers, St. Louis, Mo. Method of and apparatus for making rubber tubes. 1,676,776; July 10.
Fleischmann Company, The. (See Harrison, Arthur P., assignor.)
Fleischmann Company, The. (See Kohman, H. A., Irvin, and Stateler, assignors.)
Fletcher, Harold W., Houston, Tex. Cleaning soaking drums. 1,676,389; July 10.
Fluegel, Otto L., Birmingham, Mich. Compounding ingredients of a chemical paint remover. 1,676,642; July 10.
Forbes, Thomas C., Hopkins, assignor to Waters-Genter Company, Minneapolis, Minn. Electric switch. 1,676,257; July 10.
Ford, Henry, Dearborn, Mich. Fuel-filtering screen. 1,677,118; July 10.
Fork, Charles H., Detroit, Mich., assignor of one-half to W. J. Rush, Dearborn, Mich. Making trussed structures. 1,676,258; July 10.
Forster, Arthur G., Oakland, Calif. Visor attachment for motor vehicles. 1,676,537; July 10.
Fortier-Beaulieu, Paul. (See Constantin, Louis, assignor.)
Fortune, Drury D., Cliffside, assignor of one-half to B. B. Byers, Shelby, N. C. Hose protector. 1,677,077; July 10.
Foster, Clarence B., Glendale, assignor of one-sixth to F. L. Feisthamel, one-sixth to A. J. Carr, and one-sixth to T. A. Collins, Los Angeles, Calif. Fabricated-steel tower or derrick constuction. 1,676,538; July 10.
Foster, Clarence B., Glendale, assignor of one-sixth to F. L. Feisthamel, one-sixth to A. J. Carr, and one-sixth to T. A. Collins, Los Angeles, Calif. Fabricated-steel derrick or tower construction. 1,676,539; July 10.
Frank, Pardee H., assignor to The Timken Roller Bearing Company, Canton, Ohio. Shaft bearing. 1,676,894; July 10.
Franklin Railway Supply Company. (See Roberts, Montague H., assignor.)
Franklin Railway Supply Company. (See Vincent, Harry S., assignor.)
Franklin Railway Supply Company. (See Wallis, John S., assignor.)
Frazier, Franklin M., Placerville, Colo. Knitting needle. 1,676,947; July 10.
Frech, Theodore W., Cleveland, Ohio, assignor to General Electric Company. Headlamp-adjusting chart. 1,677,028; July 10.
Frederick, Charles W., assignor to Eastman Kodak Company, Rochester, N. Y. Camera finder. 1,676,540; July 10.
Frederickson, Otto A., assignor to American Wiremold Company, Hartford, Conn. Conduit for electric conductors. 1,676,486; July 10.
Free Sewing Machine Company. (See Kelso, Ralph S., assignor.)
French Battery Company. (See Barany, Edmund R., assignor.)
Fresk, Per A., Robertsfors, Sweden. Charging cellulose digesters and the like and means therefor. 1,676,691; July 10.
Frick Company. (See Small, Norman M., assignor.)
Fried. Krupp Aktiengesellschaft. (See Bartholdy, Max, assignor.)
Fried. Krupp Aktiengesellschaft. (See von Eberhard, Otto, assignor.)
Friedman, Joseph, New York, N. Y. Hinge. 1,676,541; July 10.
Fritts, Edwin C., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture projector. 1,676,542; July 10.
Fuller, James W. (See Kinyon, Alonzo G., assignor.)
Fuller, Truman S., N. H. Adams, and F. G. Nolte, Schenectady, N. Y., assignors to General Electric Company. Thermoelectric generator. 1,677,029; July 10.
Funk, John E., Stockton, Calif. Dredger-frame construction. 1,676,645; July 10.
Funk, John E., assignor to Funk Soil Pulverizer Company, Stockton, Calif. Supporting and inclosing structure for ground-working implements. 1,676,646; July 10.
Funk Soil Pulverizer Company. (See Funk, John E., assignor.)
Furneaux, George A., The Dalles, Oreg. Spreader for distancing spaced pipes and the like. 1,676,434; July 10.
Gams, Alphonse, and G. Widmer, assignor to the firm: Society of Chemical Industry in Basle, Basel, Switzerland. Condensation products of urea and formaldehyde and making same. 1,676,543; July 10.
Gane, George W. (See Hopkirk, J., and Gane.)
Garrett, Robert E., assignor of one-half to F. J. Schubert, Nashville, Tenn. Supporting loop for garments, etc. 1,677,078; July 10.
Gary, Lee J., assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for cracking petroleum. 1,676,895; July 10.
Gault, John S., Athol, Idaho. Snow remover. 1,676,823; July 10.
Gebrüder Hardy Maschinenfabrik und Giesserei Aktien Gesellschaft. (See Krehann, Emil, assignor.)
Gee, William J., London, England. Variable-speed gear. 1,676,859; July 10.
General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
General Electric Company. (See Amsden, Ralph D., assignor.)
General Electric Company. (See Anderson, Arvid E., assignor.)
General Electric Company. (See Benford, Frank A., assignor.)
General Electric Company. (See Berry, Edward R., assignor.)
General Electric Company. (See Buckland, B. O., and Warren, assignors.)
General Electric Company. (See Cheeseman, Ralph T., assignor.)
General Electric Company. (See Eaton, John, assignor.)
General Electric Company. (See Frech, Theodore W., assignor.)
General Electric Company. (See Fuller, T. S., Adams, and Nolte, assignors.)
General Electric Company. (See Geschke, Johannes, assignor.)
General Electric Company. (See Grier, Arthur G., assignor.)
General Electric Company. (See Haughton, Frank A., assignor.)
General Electric Company. (See Hendricks, Allan B., jr., assignor.)
General Electric Company. (See Maryan, Colin C., assignor.)
General Electric Company. (See Mittag, Albert H., assignor.)
General Electric Company. (See Moore, Daniel M., assignor.)
General Electric Company. (See Pohl, Robert, assignor.)
General Electric Company. (See Summers, Ivan H., assignor.)
General Electric Company. (See Townsend, George R., assignor.)
General Electric Company. (See van der Poel, Johannes M., assignor.)
General Electric Company. (See Weaver, Arthur B., assignor.)
General Railway Signal Company. (See Lindner, John C., assignor.)
General Steel Wares Limited. (See Corrigan, Frederick S., assignor.)
Geschke, Johannes, Berlin, Germany, assignor to General Electric Company. Magnet wheel. 1,677,030; July 10.
Getchell, Charles K., Schenectady, N. Y. Truck radius bar for locomotives. 1,676,259; July 10.
Geyer, Harvey D. (See Scott, A. W., and Geyer.)
Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Horn-button mounting for steering wheels. 1,676,487; July 10.
Geyer, Harvey D., assignor to Inland Manufacturing Company, Dayton, Ohio. Steering wheel. 1,676,488; July 10.
Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Spring shackle. 1,676,489; July 10.
Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Spring shackle. 1,676,490; July 10.
Gilchrist, Dan H. (See Hill, Thomas, assignor.)
Giles, Isaac F., Yonkers, assignor to Ilelte Electric Manufacturing Corporation, Tuckahoe, N. Y. Multiple socket. 1,676,435; July 10.
Gilmont Products Corporation. (See Hopkins, Nevil M., assignor.)
Gilson, William E., St. Louis, Mo. Chimney. 1,676,544; July 10.
Gleason Works. (See Wildhaber, Ernest, assignor.)
Glidden, Alfred A., Watertown, and F. R. McKenzie, Brighton, assignors to Hood Rubber Company, Watertown, Mass. Lining for rubber boots and method of manufacturing. 1,676,329; July 10.
Glidden, Harvey L., Needham Heights, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting machine. 1,676,260; July 10.

Glines, Frederick S., Lynn, assignor to Peerless Machinery Company, Boston, Mass. Device for setting invisible eyelets. 1,676,647; July 10.
Goldsborough, Paul, assignor of one-fourth to A. P. Upton, Minneapolis, Minn. Combined radio and phonographic recording and reproducing system. 1,676,491; July 10.
Goodman Manufacturing Company. (See Davis, Charles E., assignor.)
Goodrich, Chauncey M., Windsor, Ontario, Canada. Beam or pole structure. 1,676,824; July 10.
Goodwin, George L., Chicago, Ill., assignor to The International Committee of Young Men's Christian Associations, New York, N. Y. Card rack. 1,676,492; July 10.
Goodyear Tire & Rubber Company, The. (See Burdette, Richard S., assignor.)
Goodyear Tire & Rubber Company, The. (See Darrow, Burgess, assignor.)
Goodyear Tire & Rubber Company, The. (See Dougherty, Leslie E., assignor.)
Goodyear Tire & Rubber Company, he. (See Haase, Jörgen L., assignor.)
Goodyear Tire & Rubber Company, The. (See Hunter, John R., assignor.)
Goodyear Tire & Rubber Company, The. (See O'Brien, William G., assignor.)
Goodyear Tire & Rubber Company, The. (See Sebrell, Lorin B., assignor.)
Goodyear Tire & Rubber Company, The. (See Shively, Jess A., assignor.)
Goodyear Tire & Rubber Company, The. (See Shoaff, Paul S., assignor.)
Goodyear Tire & Rubber Company, The. (See Teisher, Austin A., assignor.)
Goodyear-Zeppelin Corporation. (See Liebert, H. R., and Schoettel, assignors.)
Gordon, George D. (See Gordon, Harry E. and G. D.)
Gordon, Harry E. and G. D., Rochester, N. Y. Electric signal for automobiles. 1,676,948; July 10.
Gordon, Isaac. (See Smith, James E., assignor.)
Goudy, William, et al. (See Davison, Lawrence, assignor.)
Gould & Eberhardt. (See Zimmermann, William F., assignor.)
Gould, Roy F., Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Zone-metering telephone system. 1,677,079; July 10.
Graaff, Clemens. (See Brase, Wilhelm, assignor.)
Grader, Russell, Manufacturing Company. (See Gustafson, Carl A., assignor.)
Graff-Baker, William S., Ealing, London, England, assignor to The National Pneumatic Company, New York, N. Y. Swinging door. 1,676,375; July 10.
Graham, B. R., et al. (See Peaden, William H., assignor.)
Grand Rapids Store Equipment Corporation. (See Woltz, Albert M., assignor.)
Grant, Clinton B. (See Turner, Erven R., assignor.)
Grass, Otto R., assignor to The Oro-Tone Company, Chicago, Ill. Sound-conveying apparatus. 1,676,493; July 10.
Grassey, Henry, Glen Rock, N. J. Jigger. 1,676,261; July 10.
Grasselli Chemical Company, The. (See Howard, Henry, assignor.)
Grasselli Dyestuff Corporation. (See Herz, R., Schulte, and Zerweck, assignors.)
Grasselli Dyestuff Corporation. (See Kaltwasser, O., Oehrn, and Kirchhoff, assignors.)
Grasselli Dyestuff Corporation. (See Krecke, Friedrich, assignor.)
Grasselli Dyestuff Corporation. (See Neelmeier, Wilhelm, assignor.)
Gray, Leonard G., Decatur, Ill. Dispensing cabinet for bottled beverages. Des. 75,724; July 10.
Great Northern Paper Company. (See Weldon, Roy V., assignor.)
Grebecz, Mihaly, et al. (See Molnar, Zontan, assignor.)
Green, Cordelia A., administratrix. (See Green, Edwin L.)
Green, Edwin L., Cross Plains, Tex.; C. A. Green, administratrix. Turning guide for fishing tools. 1,676,860; July 10.
Grier, Arthur G., Peterboro, Canada, assignor to General Electric Company. Compensated meter. 1,677,025; July 10.
Groenenstein, Philip J., Cleveland, Ohio. Glass shield. 1,676,896; July 10.
Grolan Manufacturing Company, The. (See Hill, Reuben, assignor.)
Gross, Reinhold, Hohenneuendorf, near Berlin, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Induction furnace. 1,676,545; July 10.
Grover, Albert D., Long Island City, N. Y. Extension tailpieces. 1,676,546; July 10.
Gruendler, Gustav J., Clayton, Mo. Refrigerant container. 1,676,404; July 10.
Guibrand, Carl G., Los Angeles, Calif. Rail-holding tie. 1,676,547; July 10.
Gunderman, Lester S., Pittsburgh, Pa. Safety device for clothes wringer. Re17,080; July 10.
Gustafson, Carl A., assignor to Russell Grader Manufacturing Company, Minneapolis, Minn. Road-finishing machine. 1,676,548; July 10.
Gwyer, Alfred G. C., and H. W. L. Phillips, assignors to The British Aluminum Company, Limited, London, England. Alloy. 1,676,856; July 10.
Haase, Jorgen L., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Washing machine. 1,676,825; July 10.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel. 1,676,262; July 10.
Halferty, Jess E., Manhattan, Kans. Striker plate for locks. 1,676,390; July 10.
Hall Airways Corporation. (See Hall, Charles S., assignor.)
Hall, Charles S., Los Angeles, Calif., assignor to Hall Airways Corporation, Dover, Del. Aircraft. 1,676,549; July 10, 1928.
Hall, George R., Waterville, Kans. Awning. 1,677,080; July 10.
Hallett, George E. A. (See Angle, G. D., and Hallett.)
Halvorsen, Severin, Chicago, Ill., assignor to The Newspaper Stuffing Machine Company, Seattle, Wash. Pneumatic feed mechanism. 1,676,897; July 10.
Hamlin, Frank B., Evanston, Ill. Front-wheel drive for motor vehicles. 1,676,436; July 10.
Hammond Bolt & Nut Company. (See Lowery, William, assignor.)
Hammond, John H., jr., Gloucester, Mass. System for transmitting energy. 1,677,121; July 10.
Hammond, William M., Des Moines, Iowa. Identifying individuals. 1,676,495; July 10.
Hansmann, Anton, Vienna, Austria. Water-closet system. 1,676,550; July 10.
Handlan, Alexander H., St. Louis, Mo. Lantern. 1,676,861; July 10.
Hannan, John R., Shortlands, England, and W. E. English, Bishopston, South Wales. Superheater and boiler combination. 1,677,081; July 10.
Hansen, Fred E., Lakewood, assignor to The Hansen Manufacturing Company, Cleveland, Ohio. Inflating valve. 1,676,777; July 10.
Hansen Manufacturing Company, The. (See Hansen, Fred E., assignor.)
Hanson, Bengt M. W., deceased, Hartford, Conn.; E. A. Hanson and C. E. Whitney, executors. Grinding machine. 1,676,643; July 10.
Hanson, Einar A., et al., executors. (See Hanson, Bengt M. W.)
Hanson, Swan. (See Olson, Anders, assignor.)
Hardiman, James S., assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Uncapping tool. 1,676,648; July 10.
Hardiman, Peck & Co. (See Bukow, Reinhold, assignor.)
Hardtke, Edward J., assignor to Seaman Body Corporation, Milwaukee, Wis. Door. 1,676,496; July 10.
Hardwick & Magee Company. (See Williams, Noble W., assignor.)
Harness, William E., Bloomington, Ill. Golf club. 1,677,099; July 10.
Harper, Philip S., Chicago, Ill. Gas-range bunrer. 1,676,898; July 10.
Harrison, Arthur P., Yonkers, assignor to The Fleischmann Company, New York, N. Y. Manufacture of yeast. 1,676,437; July 10.
Harrison, James, Brooklyn, N. Y. Denominating machine. 1,676,731; July 10.
Harrison, Nellie, executrix. (See Harrison, William H.)
Harrison Radiator Corporation. (See Muir, Wellington W., assignor.)
Harrison, William H., deceased, Philadelphia, Pa.; N. Harrison, executrix. Shuttle. 1,676,438; July 10.
Hart, Carl D., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Feeding mechanism. 1,676,605; July 10.
Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,676,613; July 10.
Haughton, Frank A., Schenectady, N. Y., assignor to General Electric Company. Automatic arc-welding machine. 1,676,985; July 10.
Hauser, Emil, New York, N. Y. Umbrella stand. Des. 75,725; July 10.
Häussler, Alfred, assignor to C. H. Boehringer Sohn, Chemische Fabrik, Niederingelheim-on-the-Rhine, Germany. Production of quinoline-4-carboxylic acids. 1,676,862; July 10.
Hawkins, Percy O., Hammond, Ind. Automobile frame straightener. 1,676,263; July 10.
Hawley, Charles G., assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive fire box. 1,676,732; July 10.
Hawley, Charles G., assignor to Locomotive Firebox Company, Chicago, Ill. Machine for forming, bending, folding, and shaping heavy metal sheets. 1,676,733; July 10.
Heaton, Nathan C., Westmont, assignor to Montgomery Ward & Company, Chicago, Ill. Feed mechanism for stencil-cutting machines. 1,676,551; July 10.
Healey-Aeromarine Bus Company. (See Chilton, Roland, assignor.)
Heckman, Edward L., Notre Dame, Ind. Steering wheel. 1,677,082; July 10.

Heft, Hattie L., M. B. Van Arsdale, and D. E. Shank, New York, N. Y., assignors to Teachers College. Edible product and producing same. 1,676,899; July 10.

Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Frequency-grouping arrangement for communication systems. 1,676,614; July 10.

Heminger, Joel R., Akron, Ohio. Water wings. 1,677,083; July 10.

Henderson, Hiram L., Syracuse, N. Y. Apparatus for drying lumber. 1,676,552; July 10.

Hendricks, Allan B., jr., Pittsfield, Mass., assignor to General Electric Company. Transformer. 1,677,084; July 10.

Hering, Paul C., Lawrence, Mass. Stop motion for looms. 1,677,085; July 10.

Herr, Shirl, Crawfordville, Ind. Device for underground prospecting. 1,676,779; July 10.

Herz, Richard, F. Schulte, Frankfort-on-the-Main, and W. Zerweck, Fechenheim, near Frankfort-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Converting cyannaphthalene-sulphonic acids. 1,676,692; July 10.

Herz, Richard, F. Schulte, Frankfort-on-the-Main, and W. Zerweck, Fechenheim near Frankfort-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Converting cyannaphthalene sulphonic acids. 1,677,086; July 10.

Hess, William J., Fort Wayne, Ind., assignor to Van Arnam Manufacturing Company. Hinge for water-closet seats and covers. 1,676,900; July 10.

Hewitt, Edward R., Midvale, N. J. Screen for picture projection. 1,676,553; July 10.

Hexter, Julian S., Chicago, Ill., assignor to Underwood Elliott Fisher Company, New York, N. Y. Accounting-machine demonstration chart. 1,677,087; July 10.

Heyman, Joseph J., assignor to Milano Furniture Company, Chicago, Ill. Table or similar article. Des. 75,726; July 10.

Heyman, Joseph J., assignore to Milano Furniture Company, Chicago, Ill. Table or similar article. Des. 75,727; July 10.

Heyman, Joseph J., assignor to Milano Furniture Company, Chicago, Ill. Table or similar article. Des. 75,728; July 10.

Higgins, John J., East Orange, N. J., assignor to Westinghouse Lamp Company. Soldering leading-in wires to lamp bases. 1,676,949; July 10.

Hilford, Glen G., Tulsa, Okla. Funnel. 1,676,986; July 10.

Hill, Guy. (See Mauborgne, J. O., and Hill.)

Hill, Myron F., New York, N. Y. Internal-combustion engine. 1,676,264; July 10.

Hill, Reuben, West Hartford, Conn., assignor to The Grolan Manufacturing Company, Dayton, Ohio. Valve. 1,676,330; July 10.

Hill, Thomas, assignor to D. H. Gilchrist, Detroit, Mich. Mop. 1,676,497; July 10.

Hinds, Sherwood, Galesburg, Mich. Vending-machine casing. Des. 75,729; July 10.

Hinrichs, John A., Paterson, N. J. Picker stick. 1,677,088; July 10.

Hochstein, Ludwig, Wandsbek, Germany, assignor to E. T. Brown, Thomaston, Me. Heat-resistant borosilicate glass. 1,676,331; July 10.

Hoe, R., & Co. (See Beveridge, Ernest G., assignor.)

Hoffman, Edward, St. Louis, Mo. Rubber heel. 1,676,332; July 10.

Holland, Thomas A., et al. (See Starkweather, George E., assignor.)

Holman, Arthur T. (See Holman, John L. and A. T.)

Holman Brothers Limited. (See Holman, John L. and A. T., assignors.)

Holman, John L. and A. T., assignors to Holman Brothers Limited, Camborne, England. Valve mechanism for fluid-operated rock drills. 1,676,950; July 10.

Holmes, Franklin T., Springfield, assignor to Tryco Products, Inc., Westfield, Mass. Temperature-controlled relief valve. 1,676,650; July 10.

Holt, Geoffrey, Los Angeles, Calif. Table. Des. 75,730; July 10.

Holt, Geoffrey, Los Angeles, Calif. Buffet. Des. 75,731; July 10.

Homrighous, John H., Oak Park, assignor, by mesne assignments to Automatic Electric Inc., Chicago, Ill. Impulse-transmitting device. 1,677,091; July 10.

Hood Rubber Company. (See Gilliden, A. A., and McKenzie, assignors.)

Hoopman, Aldus A., Seattle, Wash. Topical medicine. 1,676,554; July 10.

Hopewell, Samuel H., Ensley, Ala. Goggles. 1,677,089; July 10.

Hopkins, Nevil M., New York, N. Y., assignor, by mesne assignments, to Gilmont Products Corporation. Apparatus and method for filling collapsible tubes. 1,676,734; July 10.

Hopkirk, Joseph, Cambridge, and G. W. Gane, Normanby, New Zealand. Milking-machine releaser. 1,676,693; July 10.

Horne, James, Birmingham, Ala. Apparatus for cleaning slag pockets. 1,676,555; July 10.

Hotchkiss, Clifford. (See Phelan, L. A. M., and Hotchkiss.)

Howard, Frank A., Elizabeth, N. J., assignor to Standard Oil Development Company. Pyrogensis of petroleum products. 1,676,694; July 10.

Howard, Frank A., Elizabeth, N. J., assignor to Standard Oil Development Company. Treating oils. 1,676,826; July 10.

Howard, Frank A., Elizabeth, and T. R. Parker, Jersey City, N. J., assignors to Standard Development Company. Method of and apparatus for preventing knocking in internal-combustion engines. 1,676,827; July 10.

Howard, Frank A., Elizabeth, N. J., and T. R. Parker, New York, N. Y., assignors to Standard Development Company. Method of and apparatus for preventing knocking in internal-combustion engines. 1,676,828; July 10.

Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Preparation of sodium phosphate. 1,676,556; July 10.

Hoyt, Jennie K., et al. (See Au, Carl H., assignor.)

Hubbell, Harvey, Incorporated. (See Hubbell, Harvey, jr., assignor.)

Hubbell, Harvey, jr., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Battery switch. 1,676,608; July 10.

Hueller, Walter, West New York, N. J. Image reflector for vehicles. 1,676,901; July 10.

Huettig, Arno R., Stratford, Conn., assignor to American Meter Company, Incorporated, New York, N. Y. Gas meter. 1,676,651; July 10.

Hughes, Wayne S. (See Coleman, S. P., and Hughes.)

Hull, Lewis M., Boonton, N. J., assignor to Radio Frequency Laboratories, Incorporated, Boston, Mass. Vacuum-tube circuits. 1,677,090; July 10.

Humason, Granville A., and W. L. Childs; said Childs assignor to Reed Roller Bit Company, Houston, and said Humason assignor to J. A. Logan, Harris County, Tex. Pump. 1,676,391; July 10.

Hummel & Downing Co. (See Ratcliff, Arthur, assignor.)

Hunneman, Roger D., Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind. Distilling hydrocarbon oils. 1,676,609; July 10.

Hunneman, Roger D., Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind. Continuous distillation of hydrocarbon oils. 1,667,611; July 10.

Hunt, Henry E., Toronto, Ontario, Canada. Baler. 1,676,951; July 10.

Hunter, John R., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tapered plug for circular mandrels. 1,676,829; July 10.

Huntley, Burton L., assignor, by mesne assignments, to Speedpak Dispenser Corporation, Minneapolis, Minn. Ice-cream-carton filler. 1,676,952; July 10.

Huseby, Edmond A., Chicago, Ill. Control-carrying slide for self-playing musical instruments. 1,676,780; July 10.

Huseby, Edmond A., Chicago, Ill. Tracker-tube support for player piano. 1,676,781; July 10.

Ide, Harry H., La Grange, assignor to Kellogg Switch Board and Supply Company, Chicago, Ill. Calling device. 1,676,392; July 10.

Ile, William, Little Falls, N. J., assignor to Ilelte Electric Manufacturing Corporation, Tuckahoe, N. Y. Three-way electric plug. 1,676,439; July 10.

Ilelte Electric Manufacturing Corporation. (See Giles, Isaac F., assignor.)

Ilelte Electric Manufacturing Corporation. (See Ile, William, assignor.)

Inland Manufacturing Company, The. (See Geyer, Harvey D., assignor.)

Inland Manufacturing Company, The. (See Scott, A. W., and Geyer, assignors.)

International Combustion Engineering Corporation. (See Wood, Wilfred R., assignor.)

International Committee of Young Men's Christian Associations. (See Goodwin, George L., assignor.)

International Silver Company. (See Kintz, Alfred G., assignor.)

International Spotlight Corporation. (See Sklarek, Clifford, assignor.)

Irvin, Roy. (See Kohman, H. A., Irvin, and Stateler.)

Jack, George B., jr. (See Seidell, L., and Jack.)

Jackson, Benjamin B., Delphi, assignor, by mesne assignments, to The Marvel Company, Hammond, Ind. Brush mounting for suction cleaners. 1,676,782; July 10.

Jackson, Mary G., New Haven, Conn. Tracing table. 1,676,440; July 10.

Jackson, Shuman R., Syracuse, N. Y., assignor to The Dura Company, Toledo, Ohio. Mechanical movement. 1,676,441; July 10.

Jacobs, Anton. (See Wollensak, A. C., Jacobs, and Baldus.)

James, Cleveland A. (See Miller, E. A., and James.)

Jamison, George W. (See Smith, L. B., and Jamison.)

Jaton Manufacturing Corporation. (See Seidell, L., and Jack, assignors.)

Jellow, Timothy. (See Di Bona, G., and Jellow.)

Jensen, Andrew M., Stockton, Calif. Brush construction. 1,676,557; July 10.

Jensen, Carl C., assignor to Clamp Nail Company, Chicago, Ill. Clamp nail. 1,677,092; July 10.

Jensen, James A., assignor to Quaker City Iron Works, Philadelphia, Pa. Metallic container. 1,677,100; July 10.

Johnson, Alfred E., Denver, Colo. Hoist controller. 1,677,108; July 10.

Johnson, Josiah F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Equalizing means for multiple-collar bearings. 1,677,093; July 10.

Johnson, Norman E., Chicago, Ill., assignor to Spencer Thermostat Company, Cambridge, Mass. Toy and advertising novelty. 1,677,122; July 10.

Johnson-Vea, Charles T., assignor to The Dover Manufacturing Company, Dover, Ohio. Electric smoothing iron. Des. 75,732; July 10.

Jones, Hugh J., Denver, assignor of one-half to The Western Battery & Supply Company, Denver, Colo., and 10 per cent to G. A. Bible, Rawlings, Wyo., and P. M. Bible, Denver, Colo. Transmission means. 1,677,094; July 10.

Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Film-winding machine. 1,676,558; July 10.

Jones, Joshua J., Schenectady, N. Y. Locomotive valve gear. 1,676,265; July 10.

Jones, Lee B., and E. H. Werzner, assignors to Sunbeam Electric Manufacturing Company, Evansville, Ind. Governor. 1,676,902; July 10.

Jones, Lee B., and E. H. Werzner, assignors to Sunbeam Electric Manufacturing Company, Evansville, Ind. Valve. 1,676,903; July 10.

Jones, Mortimer, Fort Worth, Tex. Gas burner. 1,676,953; July 10.

Jones, Percival W., Warwick, assignor to Rosenheim Co., Inc., Providence, R. I. Bracelet clasp. 1,676,695; July 10.

Jones, Russell G., New York, N. Y., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Manufacture of commutators. 1,676,442; July 10.

Jordan, Charles J., assignor of one-fourth to R. G. Schaub, Woodbury, N. J. Method and apparatus for manufacturing fire-polished sheet glass. 1,677,095; July 10.

Kaffer, Joan W. J., Meester-Cornelis, Java, Dutch East Indies. Electrical heating and cooking apparatus. 1,677,032; July 10.

Kaltwasser, Oskar, Berlin, H. Oehrn, Charlottenburg, and H. Kirchhoff, Berlin-Lichterfelde, Germany, assignors, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Ortho-hydroxyazo dye. 1,676,697; July 10.

Kanawyer, Osceola and H. Keener, Huntington Beach, Calif. Clothesline pole and reel. 1,676,696; July 10.

Kanneman, George E., Woodbury, N. Y. Flagpole holder for golf courses. 1,676,954; July 10.

Kaspe, Joseph, Charbin, Russia. Safety device for elevators and the like. 1,676,443; July 10.

Kassner, Ernst, New York, N. Y. Duplex adding machine and cash register. 1,676,559; July 10.

Kassner, Ernst, Berlin, Germany. Transfer mechanism for duplex adding machines, cash registers, etc. 1,676,560; July 10.

Kattwinkel, Hans, Coswig, Germany. Resilient intermediate member for jointed couplings and the like. 1,676,333; July 10.

Kearney, James B., Kansas City, Mo. Pole butt. 1,676,266; July 10.

Keener, Howard. (See Kanawyer, O., and Keener.)

Keller, Charles L., Glendale, assignor to The Richardson Company, Lockland, Ohio. Apparatus and process for cleaning paper stock. 1,676,652; July 10.

Kellogg Switch Board and Supply Company. (See Ide, Harry H., assignor.)

Kelly, John A., Brooklyn, N. Y. Heel-attaching mechanism. 1,676,904; July 10.

Kelly, Peirce C., Philadelphia, Pa., and H. A. Landis, Haddon Heights, N. J., assignors to American Engineering Company, Philadelphia, Pa. Ferry bridge. 1,676,993; July 10.

Kelso, Ralph S., assignor to Free Sewing Machine Company, Rockford, Ill. Chain construction. 1,676,863; July 10.

Kemp, William E., New York, N. Y. Intake manifold for internal-combustion engines. 1,676,955; July 10.

Kempf, Hubert, Barmen, Germany, assignor, by mesne assignments, to American Bemberg Corporation. Spinning apparatus. 1,676,334; July 10.

Keyes, Donald B., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Obtaining absolute alcohol. 1,676,735; July 10.

Kienast, Selden P., Battle Creek, and C. E. Drake, Parma, Mich. Windshield wiper. 1,676,561; July 10.

King, Francis M., sr., Philadelphia, Pa. Combined dishwasher and soap holder. 1,676,905; July 10.

King, Robert W., Toronto, Ontario, Canada. Rotary pump. 1,676,783; July 10.

Kintz, Alfred G., Wallingford, Conn., assignor to International Silver Company, Meriden, Conn. Dish or similar article. Des. 75,733; July 10.

Kintz, Alfred G., Wallingford, Conn., assignor to International Silver Company, Meriden, Conn. Dish or similar article. Des. 75,734; July 10.

Kintz, Alfred G., Wallingford, Conn., assignor to International Silver Company, Meriden, Conn. Dish or similar article. Des. 75,735; July 10.

Kinyon, Alonzo G., Allentown, assignor, by mesne assignments, to J. W. Fuller, Catasauqua, Pa. Apparatus for conveying pulverized material. 1,677,119; July 10.

Kirchhoff, Ernest, Great Kills, N. Y., assignor to Rousmaniere, Williams & Co., Boston, Mass. Textile fabric. Des. 75,736; July 10.

Kirchhoff, Hermann. (See Kaltwasser, O., Oehrn, and Kirchhoff.)

Kisecker, Charles N., Dayton, Ohio. Headlight. 1,676,393; July 10.

Kitchen, John F., Erie, Pa., assignor by mesne assignments to Doherty Research Company, New York, N. Y. Demand limiting and volumetric meter. 1,676,444; July 10.

Klein, Mathias, & Sons. (See Rueckert, Curtis, assignor.)

Knecht, Oskar, and Hans Brütsch, assignors to Society "Chemical Works formerly Sandoz" Basel, Switzerland. Manufacture of trisazole coloring matters. 1,676,562; July 10.

Knight, James M., San Antonio, Tex. Door fastener. 1,676,335; July 10.

Knoll, William J., assignor to H. B. Rouse & Company, Chicago, Ill. Beveling machine. 1,676,336; July 10.

Knudson, Joachim R. M. (See Yeager, Fay A., assignor.)

Koch, William C., St. Paul, Minn. Display case for brick. 1,676,445; July 10.

Koehring Company. (See Russell, Leslie A., assignor.)

Kohman, Henry A., R. Irvin, and E. S. Stateler, Pittsburgh, Pa., assignor, by mesne assignments, to Fleischmann Company, New York, N. Y. Production of enzymes for use in the manufacture of bread. 1,676,446; July 10.

Kohn, Koby, New York, N. Y. Toy torpedo. 1,677,034; July 10.

Kohn, Koby, New York, N. Y. Toy torpedo. 1,677,035; July 10.

Kokomo Sanitary Pottery Company. (See Coxon, John B., assignor.)

Kondolf, Mathias R., Cynwyd, assignor to Boxboard Products Company, Philadelphia, Pa. Tool for manipulating fasteners for container closures. 1,676,907; July 10.

Konkus, Johan, Fords, N. J. Permutation double lock. 1,676,394; July 10.

Konoff, Alexander, Brooklyn, N. Y., assignor to Voices Incorporated, Wilmington, Del. Sounding device for dools and other toys. 1,676,906; July 10.

Körner, Bruno H., assignor of one-half to E. Pietzsch, Dohna, near Pirna, Germany. Apparatus for stopping leaks especially in the bottom and side walls of ships' hulls. 1,676,395; July 10.

Korper, Isaac, New York, N. Y. Adjustable shoulder-strap stay. 1,677,109; July 10.

Kramer, Richard L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulose-ester composition. 1,676,612; July 10.

Kranz, Clara, Chicago, Ill. Separable fastener. 1,676,396; July 10.

Kratochwill, Rudolph A., Greeneville, Tenn. Combination cigarette and match box. 1,677,036; July 10.

Krause, Hermann, Menomonee Falls, Wis. Line-shaft bearing. 1,676,784; July 10.

Krecke, Friedrich, Offenbach, near Frankfort-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. 2-hydroxynaphthalene-3-monosulpho-6-carboxylic acid and making it. 1,676,698; July 10.

Krehann, Emil, assignor of one-half to the firm Gebrüder Hardy Maschinenfabrik und Giesserei Atkien Gesellschaft, Vienna, Austria. Air-pressure brake. 1,677,033; July 10.

Krum, Charles L. and H. L., Chicago, Ill., assignors to Morkrum-Kleinschmidt Corporation, Chicago, Ill. Electric selecting apparatus. 1,676,447; July 10.

Krum, Charles L and H. L., assignors to Morkrum-Kleinschmidt Corporation, Chicago, Ill. Selecting apparatus for electric telegraphs. 1,676,448; July 10.

Krum, Howard L. (See Krum, Charles L. and H. L.)

Kruse, Frederich E., Binghamton, N. Y. Carnation plant holder. 1,676,337; July 10.

Kuehn, Louis, assignor to Milwaukee Corrugating Company, Milwaukee, Wis. Sheet-metal roofing. 1,677,031; July 10.

Künzel, Kurt, Uhsmannsdorf, Germany. Making glass in a shaft furnace. 1,676,267; July 10.

Kus, Thomas G., assignor, by mesne assignments, to Chicago Trust Company, trustee, Chicago, Ill. Coke oven. 1,676,736; July 10.

L. T. N. Manufacturing & Development System, The. (See La Plant, Simeon H., assignor.)

Lacoss, Edward W., Florence, Kans. Paring knife. 1,676,699; July 10.

Ladwig, Amos F., Waterloo, Iowa. Combination hanger. 1,676,737; July 10.

Lamplough, Leslie F., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Feeding mechanism. 1,676,607; July 10.

Lamond, Robert C., assignor to American Engineering Company, Philadelphia, Pa. Control mechanism. 1,676,994; July 10.

Lancaster Asphalt, Inc. (See Robinson, Thomas, assignor.)

Landis, Herbert A. (See Kelly, P. C., and Landis.)

Lanz, Josef, Mendrisio, Switzerland. Double-sided cuff for men's shirts, blouses, and the like. 1,676,397; July 10.

La Plant, Simeon H., Salida, assignor to The L. T. N. Manufacturing & Development System, Platteville, Colo. Carburetion system for internal-combustion engines. 1,676,563; July 10.

Larsen, Louis H., Englewood, N. J. Raking attachment. 1,676,830; July 10.

Lauber, William, Meadowbrook, Pa. Stocking. Des. 75,737; July 10.

Laurence, Daniel, trustee. (See Sperti, G., Norris, Withrow, and Schneider, assignors.)

Laurie, Alexander, Chicago, Ill., assignor to H. F. Lessmann, Des Moines, Iowa. Scoop attachment for traction engines. Re17,025; July 10.

Lausen, Christian A., Fort Worth, Tex. Gas burner. 1,676,564; July 10.

La Valleé, Oliver, and O. Lemelin, New Britain, Conn. Overflow alarm. 1,676,565; July 10.

Lawrence, Harry W., Denver, Colo. Sub or removable building front. 1,676,498; July 10.

Leaver, James M., jr. (See Leaver, James M. and J. M., jr.)

Leaver, James M., jr., Oakland, Calif. Rotary binding machine. 1,676,956; July 10.

Leaver, James M. and J. M., jr., Oakland, Calif. Method and apparatus for unstacking lumber. 1,676,957; July 10.

Lederer, Frederick J., Buffalo, N. Y. Hoisting machine. 1,676,449; July 10.

Lees-Brander Company, The. (See Schurr, Charles H., assignor.)

Lehon Company, The. (See McDavitt, Charles J., assignor.)

Lemelin, Odilon. (See La Valleé, O., and Lemelin.)

L'Enfant, Charles, New York, N. Y. Assembling device for card cases. 1,676,338; July 10.

Lengemann, Paul, Bremen, Germany. Foot-arch support. 1,676,398; July 10.

Le Noue, Cyril W., Los Angeles, Calif. Lock. 1,676,450; July 10.

Lesourd, Georges. (See Alkan, R., and Lesourd.)

Lessmann, Herbert F. (See Laurie, Alexander, assignor.)

Lester, Leonard B. (See Lotterman, W., Lester, and Odton.)

Levene, Albert H., Newark, N. J., assignor to De Luxe Metal Furniture Company. Construction in bins. 1,676,908; July 10.

Levene, Albert H., Newark, N. J., assignor to De Luxe Metal Furniture Company. Shelving. 1,676,909; July 10.

Levene, Albert H., Newark, N. J., assignor to De Luxe Metal Furniture Company. Movable shelf divider. 1,676,910; July 10.

Leventis, Constantine, Phoenix, Ariz. Serum and producing the same. 1,676,995; July 10.

Leventis, Constantine, Phoenix, Ariz. Gland serum. 1,676,996; July 10.

Leventis, Constantine, Phoenix, Ariz. Antituberculer serum and producing the same. 1,676,997; July 10.

Levey, Thomas J., Baltimore, Md. 1,676,339; July 10.

Levy, Leonard A., Cricklewood, England. Nozzle for the production of artificial filaments. 1,676,831; July 10.

Leweke, Eva, administratrix. (See Leweke, Fred F.)

Leweke, Fred F., deceased, Rocky Ford, Colo.; E. Leweke, administratrix. Fruit-grading machine. 1,676,037; July 10.

Lewis, Claude A., Houston, Tex., assignor to American Window Company. Window. 1,676,399; July 10.

Lewis, Claude A., assignor to American Window Company, Houston, Tex. Mounting for window sash. 1,676,400; July 10.

Lewis, Frank, H. (See Crummey, J. D., Austin, and Lewis.)

Lewis, James O., Tulsa, Okla. Method of and apparatus for grouting the walls of an oil well. 1,676,785; July 10.

Lewis, Warren K., Newton, Mass., assignor to Standard Oil Development Company. Dehydrating alcohol and the like. 1,676,700; July 10.

Lickhard, Karl, New York, N. Y. Soup bowl. Des. 75,738; July 10.

Liebeck, Harry, Swarthmore, Pa., assignor to Scott Paper Company. Paper-stock refining. 1676,653; July 10.

Liebel, John G. H. (See Flarsheim, Edwin S., assignor.)

Liebel, John G. H., and E. S. Flarsheim, Cincinnati, Ohio. Time switch. 1,677,106; July 10.

Liebert, Gustav, assignor to Süddeutschen Telephon-Apparate-Kabel- u. Drahtwerke Aktien Gesellschaft, Nuremberg, Germany. Manufacturing electron-emitting cathodes. 1,676,701; July 10.

Liebert, Herman R., and E. Schottel, assignors to Goodyear-Zeppelin Corporation, Akron, Ohio. Gas cell for rigid airships. 1,676,832; July 10.

Lilge, Friedrich, Oberhausen, Germany. Packing or filling body. 1,676,451; July 10.

Lindbladh Corporation, The. (See Lindbladh, Harmon E., assignor.)

Lindbladh, Harmon E., Brookline, Mass., assignor to The Lindbladh Corporation. Apparatus for controlling sheets. 1,676,654; July 10.

Lindgren, Gottfrid E. (See Elliot, W. S., and Lindgren.)

Lindner, John C., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Relay. 1,676,340;

Line, John M., Springfield, Mo. Portable bed for automobiles of the sedan type. 1,676,987; July 10.

Lipscomb, Gaston J., Montclair, N. J. Pressure and vacuum filter. 1,676,268; July 10.

Lissauer, Adolph W., assignor to Louisville Drying Machinery Co., Inc., Louisville, Ky. Drier control. 1,676,786; July 10.

Lissauer, Adolph W., assignor to Louisville Drying Machinery Co., Inc., Louisville, Ky. Heat exchanger. 1,676,787; July 10.

Little, Edwin O., Aledo, Ill. Casing for advertising device. Des. 75,739; July 10.

Locomotive Firebox Company. (See Hawley, Charles G., assignor.)

Loesel, Nicholas, Richmond Hill, assignor to American Can Company, New York, N. Y. Sifter-top closing device. 1,676,615; July 10.

Loewe, Siegmund, Berlin-Friedenau, Germany, assignor to Radio Corporation of America. Operate electrostatic telephones. 1,676,452; July 10.

Logan, J. A. (See Humason, G. A., and Childs, assignors.)

Loiseau, Louis M. J. (See Verdan, C., and Loiseau.)

Long, Albert E. (See Crook, C. M., and Long.)

Long, Eli M., assignor, by mesne assignments, to Shar-On Standard Optical Company, Inc., Geneva, N. Y. Lens-cutting machine. 1,676,566; July 10.

Longvall, Raymond C., assignor to Warp Compressing Machine Company, Worcester, Mass. Arrangement of spindles for creels. 1,676,864; July 10.

Look, Frank L., Lamanda Park, Calif. Beverage cooler. Des. 75,740; July 10.

Lookabaugh, Harry C., Jacksonville, Fla. Safety guard for dangerous highways. 1,677,038; July 10.

Lorant, Hugo, assignor to Schloemann Aktiengesellschaft, Dusseldorf, Germany. Metal tube and bar press. 1,676,401; July 10.

Lorenz, William A., assignor to The Otaka Fabric Company, West Hartford, Conn. Paper-making machine. 1,676,655; July 10.

Lotterman, William, L. B. Lester, and M. K. Orton, Grand Rapids, Mich. Automatic woodworking machine. 1,676,738; July 10.

Louisville Drying Machinery Co. (See Lissauer, Adolph W., assignor.)

Lowery, William, Hammond, Ind., assignor, by mesne assignments, to Hammond Bolt & Nut Company. Automatic feed mechanism for heading machines. 1,676,567; July 10.

Lowy, Samuel, New York, N. Y. Extensible pilaster. 1,676,616; July 10.

Lucas, Samuel M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. 1,676,788; July 10.

Lu-Mi-Nus Signs, Inc. (See Wesley, Joseph A., assignor.)

Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Blank-assembling machine. 1,676,341; July 10.

Lusk, Charles H., Newton, Mass. Compressor and pump. 1,676,789; July 10.

Lutz, George A., Cranford, N. J., assignor to American Circular Loom Company, Pittsburgh, Pa. Resistance welding electrode. 1,676,656; July 10.

Lutz, Julius H., New York, N. Y. Suction element and suction ventilator for automobiles. 1,676,269; July 10.

Luyben, Joseph A. (See Ferber, H. G., and Luyben.)

Luzzi, August F., Houston, assignor to J. B. Akers, Breckenridge, Tex. Truss. 1,676,657; July 10.

M S Co. (See Nittel, Frederick W., assignor.)

MacGuire, Elmer E., Anaconda, Mont. Traction lug for vehicles. 1,676,453; July 10.

Mack, Carl, assignor, by mesne assignments, to S. Bonat and H. Bonat, constituting the firm of Samuel Bonat & Bro., New York, N. Y. Hair winder. 1,676,402; July 10.

Mackenzie, Donald G., Montreal, Quebec, Canada. Vehicle frame. 1,676,342; July 10.

Magill, Donald G., Brooklyn, assignor to American Can Company, New York, N. Y. Fiber board for containers and the like. 1,676,617; July 10.

Maginnis, William J., assignor to Royal Electrtype Company, Philadelphia, Pa. Plate and preparation of plate for electrotyping. 1,676,658; July 10.

Magnetic Analysis Corporation. (See Burrows, Charles W., assignor.)

Magruder, Willett C., Louisville, Ky. Tiling. 1,677,039; July 10.

Malley, Roy D., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Electric lamp. 1,676,790; July 10.

Malley, Roy D., East Orange, assignor to Cooper Hewitt Electric Company. Switching apparatus. 1,676,791; July 10.

Malley, Roy D., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Vapor electric lamp. 1,676,792; July 10.

Malley, Roy D., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Electric vapor lamp. 1,676,793; July 10.

Malley, Roy D., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Thermostatically-controlled switch. 1,676,794; July 10.

Malley, Roy D., East Orange, and W. J. Winninghoff, South Orange, assignors to Cooper Hewitt Electric Company, Hoboken, N. J. Glass-working machinery. 1,676,795; July 10.

Mallory, Gladys F., Martins Ferry, Ohio. Combined window shade and drapery support. 1,676,403; July 10.

Malone, James P., Pittsburgh, Pa. Fuel-mixing device. 1,676,958; July 10.

Manaugh, Carl J. (See Cummings, James D., assignor.)

Manglalett, Gaetano, Brooklyn, N. Y. Cover back and hinge. 1,676,865; July 10.

Marckworth, Otto S., Columbus, Ohio. Applying, blending, and setting colors. 1,676,739; July 10.

Marden, John W. (See Rentschler, H. C., and Marden.)

Marion Machine, Foundry & Supply Company. (See Cook, W. A., and Stroup, assignors.)

Marlatt, George E., Pasadena, Calif. Typographical machine. 1,676,959; July 10.

Martin, De Loss K. (See Blackwell, O. B., and Martin.)

Marvel Company, The. (See Jackson, Benjamin B., assignor.)

Maryan, Colin C., Lawrence Park, Pa., assignor to General Electric Company. Flux for welding cast iron. 1,676,988; July 10.

Mas, George N., Washington, D. C., assignor to American Ornamental Bottle Corporation, Lynchburg, Va. Bottle. Des. 75,741; July 10.

Mason, Joe E. (See Branum, Solomon C., assignor.)

Master Products Corporation. (See Cronk, Wesley M., assignor.)

Matheson, Howard W., assignor to Canadian Electro Products Company, Limited, Montreal, Quebec, Canada. Making acetic acid. 1,676,454; July 10.

Mattison, Norman D., Montclair, N. J. Golf club. 1,676,270; July 10.

Mauborgne, Joseph O., and G. Hill, Washington, D. C. System of radio communication. 1,676,404; July 10.

Maury, Alfred D., Ilion, assignor, by mesne assignments, of one-third to G. A. Braun, Syracuse, N. Y. Actuating mechanism for pressing machines. 1,676,866; July 10.

McCandless, Henry W., New Albany, Ind. Stanchion. 1,676,568; July 10.

McClelland, A. B. (See Welch, Abraham L., assignor.)

McClelland, William H., Huntingdon, assignor, by mesne assignments, to R. P. M. Davis, Mount Union, Pa. Sanding device. 1,676,406; July 10.

McCollum, Burton, Washington, D. C. Method and apparatus for studying geologic contours. 1,676,619; July 10.

McConnell, Duncan A., Montclair, N. J., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Electric horn. 1,676,455; July 10.

McCorkindale, William P., Holyoke, Mass. Producing folded toilet-seat covers. 1,676,499; July 10.

McDavitt, Charles J., assignor to The Lehon Company, Chicago, Ill. Shingle-grouping machine. 1,676,911; July 10.

McDowell, Lamont A., Racine, Wis. Seat construction. 1,676,456; July 10.

McEwen, John D., assignor to Lee C. Moore & Company, Incorporated, Pittsburgh, Pa. Derrick. 1,676,271; July 10.

McEwen, John D., assignor to Lee C. Moore & Company, Incorporated, Pittsburgh, Pa. Derrick. 1,676,272; July 10.

McGlehan, Cornelius H., Glens Falls, N. Y. Paper receptacle. 1,677,040; July 10.

McGill Manufacturing Company. (See Despard, Victor R., assignor.)

McGinnis, Claude C., Sedro Woolley, Wash. Sliding door. 1,676,500; July 10.

McIntyre, Michael J., Eden Center, N. Y. Musical toy or instrument. 1,676,659; July 10.

McKamey, William O., Knoxville, Tenn. Railway car. 1,676,343; July 10.

McKenzie, Frank R. (See Glidden, A. A., and McKenzie.)

McMenamin, Emmett G., Monterey, Calif. Aeronautic toy mounting. 1,676,989; July 10.

McQuinn, Thomas H., London, England, assignor of one-third to H. M. Sargood, Toorak, Victoria, Australia. Electric radiator. 1,676,834; July 10.

Meacham, Frederick C., Garden City, N. Y. Device for calculating time. 1,676,912; July 10.

Meakin & Ridgway, Inc. (See Woodman, Walter S., assignor.)

Mejart, Fred, Manufacturing Company. (See Albach, Frank, assignor.)

Meillati, Bruno R., Salt Lake City, Utah. Bottle cap and fastener. 1,676,998; July 10.

Merrimack Manufacturing Company. (See Dick, Hugo P., assignor.)

Midland Chemical Laboratories. (See Bloodhart, John W., assignor.)

Mier, Millard M. (See Arrowood, Reuben H., assignor.)

Milano Furniutre Company. (See Heyman, Joseph J., assignor.)

Milk Novelty Company. (See Mills, Fred L., assignor.)

Millar, George A., Ridgefield Park, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Glassworking machinery. 1,676,796; July 10.

Miller, Edgar A., and C. A. Janes, Philadelphia, Pa. Signal device. 1,676,273; July 10.

Miller, William F., Buffalo, N. Y. Oil burner. 1,676,274; July 10.

Mills, Fred L., Oak Park, Ill., assignor to Milk Novelty Company, Chicago, Ill. Front plate for a vending-machine cabinet. Des. 75,742; July 10.

Mills, Robert D., jr., Nashville, Tenn. Cigarette and match dispenser. 1,677,041; July 10.

Milwaukee Corrugating Company. (See Kuehn, Louis, assignor.)

Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)

Mitchell, Kearney F., Sulphur, La. Automatic drill-pipe cutter. 1,676,569; July 10.

Mittag, Albert H., Schenectady, N. Y., assignor to General Electric Company. System of distribution. 1,676,990; July 10.

Mobley, Henry G., League City, Tex. Pressure-relief apparatus. 1,676,999; July 10.

Molnar, Zoltan, Welland, Ontario, Canada, assignor of one-fourth to M. S. Czorboy and one-fourth to M. Grebecz. Automatic railroad gate. 1,676,960; July 10.

Montague City Rod Company. (See Bennett, Raymond B., assignor.)

Montgomery, Gustavus A., assignor to Titusville Forge Company, Titusville, Pa. Combined casing spider and elevator. 1,676,275; July 10.

Montgomery Ward & Company. (See Heaton, Nathan C., assignor.)

Moore, Charles W., assignor to The Moore Flange Corporation, New York, N. Y. Seal. 1,676,276; July 10.

Moore, Daniel M., East Orange, N. J., assignor to General Electric Company. Electric discharge device. 1,677,000; July 10.

Moore Fabric Company. (See Moore, John V., assignor.)

Moore Flange Corporation, The. (See Moore, Charles W., assignor.)

Moore, Henry W., Hingham, Mass., assignor to D. M. Baker, doing business as Cape Cod Shop, New York, N. Y. Tankard. Des. 75,743; July 10.

Moore, John V., assignor to Moore Fabric Company, Pawtucket, R. I. Curvilinear fabric. 1,677,042; July 10.

Moore, Lee C., & Company. (See McEwen, John D., assignor.)

Moore, Raymond G., and A. Claud-Mantle, assignors to The Bassick Company, Bridgeport, Conn. Latch. 1,676,867; July 10.

Moors, George F., assignor to Recip-Roto, Engine Company, St. Louis, Mo. Burner. 1,676,501; July 10.

Moreau, Jules, La Garenne-Colombes, France. Lubricating device for axle journals. 1,677,001; July 10.

Morehouse, Eugene. (See Bailou, F. A., jr., and Morehouse.)

Morgan, David W. R., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser. 1,676,740; July 10.

Morgan, Francis L., Burlingame, Calif. Pencil holder. Des. 75,744; July 10.

Morgan, Francis L., Burlingame, Calif. Pencil holders. Des. 75,745; July 10.

Morkrum-Kleinschmidt Corporation. (See Krum, Charles L. and H. L., assignors.)

Morrill, James M., Milbank, S. Dak. Bread proofer. 1,677,043; July 10.

Morris, John W., Rensselaer, N. Y. Ladder support. 1,676,618; July 10.

Morris, Jolly L., Crafton, assignor of fifty-one one hundreds to A. B. Coleman, Pittsburgh, Pa. Dispensing apparatus. 1,676,833; July 10.

Moskowitz, Jacob, Brooklyn, N. Y. Book-corner protector. 1,676,741; July 10.

Moss, Thomas, Long Beach, Calif. Washing compound. 1,677,044; July 10.

Moyer, William W., Camden, N. J., assignor to Victor Talking Machine Company. Driving mechanism for talking machines. 1,676,660; July 10.

Mugler, Casper M., Clay Center, Kans. Metal flooring. 1,676,570; July 10

Muir, Wellington W., assignor to Harrison Radiator Corporation, Lockport, N. Y. Process of and apparatus for cooling internal-combustion engines. 1,676,961; July 10.

Mumford, Russell W., Trona, Calif., assignor by mesne assignments, to American Potash & Chemical Corporation, New York, N. Y. Cooling apparatus. 1,676,277; July 10.

Murphy, Christena, New York, N. Y. Comfort cushion. 1,676,962; July 10.

Murphy, Daniel F., and L. Cotter, Boise, Idaho. Electric signaling device for vehicles. 1,676,571; July 10.

Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to the Bassick Manufacturing Company, Chicago, Ill. Lubricating apparatus. 1,676,457; July 10.

Murray, Thomas E. (See Phelps, George H., assignor.)

Myers, Lewis C., Freeport, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,676,278; July 10.

Myers, Lewis C., Freeport, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,676,279; July 10.

Mynol Chemical Company, The. (See Anthony, Wendell P., assignor.)

Nasmith, John W., Manchester, England. Comb in combing machines. 1,676,702; July 10.

National Enameling & Stamping Co. (See Sladky, Alexander C. and J., assignors.)

National Pneumatic Company, The. (See Graff-Baker, William S., assignor.)
National Pneumatic Company. (See Paul, Abram F., assignor.)
National Tube Company. (See Baines, J. E., and Bosle, assignors.)
Naugatuck Chemical Company, The. (See Ostromislensky, Iwan, assignor.)
Neal, Spencer G., New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del. Air-brake apparatus. Re17,026; July 10.
Neal, Spencer G., New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del. Air-brake apparatus. Re17,028; July 10.
Neal, Spencer G., New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del. Re17,029; July 10.
Neal, Spencer G., New York, W. Astle, Brooklyn, N. Y., and E. P. Wilson, East Orange, N. J., assignors to Automatic Straight Air Brake Company, Wilmington, Del. Air-brake apparatus. Re17,027; July 10.
Neelmeier, Wilhelm, Leverkusen, near Cologne-on-the Rhine, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Hydroxy-naphthalene-arylsulphoester azo dyestuff and making the same. 1,676,407; July 10.
Neelmeier, Wilhelm, Leverkusen-on-the-Rhine, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Hydroxy-naphthalent-arylsulfoester azo dyestuff and making the same. 1,676,458; July 10.
Neilsen, Karl P., Long Beach, Calif. Standing-valve puller. 1,676,661; July 10.
New Britain Machine Company. (See Victory, William J., assignor.)
Newmann, John, Glendale, N. Y. Hoisting apparatus. 1,676,344; July 10.
Newmann, John, Glendale, N. Y. Transmission mechanism. 1,676,345; July 10.
Newspaper Stuffing Machine Company, The. (See Halvorsen, Severin, assignor.)
Nicholls, William H., Brooklyn, N. Y. Jolt mechanism for molding machines. 1,676,662; July 10.
Nicholls, William H., Brooklyn, N. Y. Sand-mulling device. 1,676,663; July 10.
Niemann, George F., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Switch socket. 1,676,280; July 10.
Nissen, J. N. (See Cheatham, Chester W., assignor.)
Nittel, Frederick W., Attleboro Falls, assignor to M S Co., Attleboro, Mass. Watch-bracket end hook. 1,677,101; July 10.
Nocito, Garibaldi, Rosario, Argentina. Arrangement for the better exhaust and use of the explosion of the motor gas in order to operate an alarm bell. 1,676,346; July 10.
Nolte, Frank G. (See Fuller, T. S., Adams, and Nolte.)
Norris, Robert J. (See Sperti, G., Norris, Withrow, and Schneider.)
Northrop, Jonas, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Feeler loom. 1,676,913; July 10.
Norton, Charles H., Plainville, Conn., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding apparatus. 1,676,620; July 20.
Nuyts, Georges, Paris, France. Toothbrush. 1,676,703; July 10.
Nyman, Alexander, Tuckahoe, assignor to Dubilier Condenser Corporation, New York, N. Y. Tension regulator. 1,676,797; July 10.
Oatley, Henry B., Flushing, N. Y., assignor to The Superheater Company, New York, N. Y. Locomotive front end. 1,676,347; July 10.
Oberheu, Fred A., Detroit, Mich. Sign-supporting device. 1,676,835; July 10.
O'Brien, William G., assignor to The Goodyear Tire & Ruhber Company, Akron, Ohio. Making articles from a fibrous composition. 1,676,798; July 10.
Odom, Daniel E., Bennettsville, S. C. Spring-handling apparatus. 1,676,704; July 10.
Odom, Daniel E., Bennettsville, S. C. Spring motor. 1,677,045; July 10.
Oehmichen, Etienne, Valentigney, France. Propelling or lifting device with automatic correction. 1,676,572; July 10.
Oehrn, Hans. (See Kaltwasser, O., Oehrn, and Kirchhoff.)
O'Hara, Skidmore, assignor to O'Hara Waltham Company, Waltham, Mass. Machine for printing or embossing. 1,676,836; July 10.
O'Hara Waltham Company. (See O'Hara, Skidmore, assignor.)
Ohio Chemical & Manufacturing Company. (See Axelrod, Meyer L., assignor.)
Ohio Foundry and Manufacturing Company, The. (See Sharp, William L., assignor.)
O'Leary, Margaret K., Fordham, N. Y. Dispensing closure for containers. 1,676,348; July 10.
Olson, Anders, Galesburg, Ill. Fly swatter. 1,677,046; July 10.
Olson, Anders, assignor of one-half to S. Hanson, Galesburg, Ill. Conveyer for corn harvesters. 1,676,916; July 10.
Olson, Otto E., and L. Cooper, Douglas, Ariz. Repairing means for furnace arches. 1,677,002; July 10.
O'Malley, Matthew V. (See Paulson, Charles J., assignor.)
Oro-Tone Company, The. (See Grass, Otto R., assignor.)
Orton, Merritt K. (See Lotterman, W., Lester, and Orton.)
O'Shea, James P., New York, N. Y., assignor to Cooper Hewitt Electric Company. Mercury switch. 1,676,408; July 10.
Osmera, Frank, Wauneta, Nebr. Corn sheller. 1,676,573; July 10.
Ostermeier, George A., New London, Wis. Process trimmer. 1,676,574; July 10.
Ostline, John E., Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Traffic-recording equipment for telephone systems. 1,676,742; July 10.
Ostromislensky, Iwan, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Making powdered vitreous polymerized styrol and its homologues, to the powder so produced, and articles including such material. 1,676,281; July 10.
Ostrovsky, Harry, Bryn Athyn, Pa. Apparatus for promoting flexibility of the joints of the hands. 1,676,664; July 10.
Otaka Fabric Company, The. (See Lorenz, William A., assignor.)
Overgaard, Olav, Brooklyn, N. Y., assignor to Star Contra Propeller Ltd. A/S., Oslo, Norway. Removable contrapropeller. 1,676,409; July 10.
Owen, Fredrick C., Fayetteville, N. C. Transformer for electric arc cutting, repairing, and welding apparatus. 1,677,003; July 10.
Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Pagenhart, Benjamin F., assignor of one-half to T. Young, Minneapolis, Minn. Brake mechanism for traction devices of the endless-belt type. 1,677,047; July 10.
Palm, Per W., Baudette, Minn. Tread attachment for vehicle wheels. 1,676,705; July 10.
Parker, C. Paul. (See Anderson, Swan F., assignor.)
Parker, Thomas R. (See Howard, F. A., and Parker.)
Parkersburg Rig and Reel Company, The. (See Schwemlein, William, assignor.)
Parmenter, George E., New York, N. Y., assignor to The American Crayon Company, Sandusky, Ohio. Display container. 1,676,917; July 10.
Parrish, Harry B. (See Vanderveld, Anthony, assignor.)
Paul, Abram F., Llanerch, Pa., assignor to National Pneumatic Company, New York, N. Y. Push-button apparatus for multiple-unit door-control systems. 1,676,743; July 10.
Paul, Leon R., New York, N. Y. Toy. 1,676,410; July 10.
Paulson, Charles J., assignor of one-third to M. V. O'Malley, Brooklyn, N. Y. Coin-selecting mechanism. 1,676,914; July 10.
Paulus, Charles L. (See Russell, H. O., and Paulus.)
Paulus, Charles L., Dayton, Ohio. Adjustable wind-vane sight. 1,676,963; July 10.
Payette, Joseph A., assignor to S. O. Bigney Company, Attleboro, Mass. Bracelet. 1,676,706; July 10.
Payne, El Roy L., assignor to Payne Furnace and Supply Company, Beverly Hills, Calif. Gas furnace. 1,676,665; July 10.
Payne Furnace and Supply Company. (See Payne, El Roy L., assignor.)
Peaden, William H., assignor to R. D. Donnelly and B. R. Graham, Tulsa, Okla. Dust-proof oil-dispensing vessel. 1,676,411; July 10.
Pedersen, Johannes T., Flushing, N. Y. Fork-tine straightener. 1,676,918; July 10.
Peer, Edward S., Los Angeles, Calif. Safety-deposit receptacle. 1,676,707; July 10.
Peerless Machinery Company. (See Glines, Frederick S., assignor.)
Penn Metal Company. (See Birkhols, Richard G., assignor.)
Pennsylvania Wire Glass Company. (See Cox, W., and Shuman, assignors.)
Persons, Lawrence M., assignor to Cook Electric Company, Chicago, Ill. Making hollow rivets. 1,676,919; July 10.
Pervier, William A., Watertown, Mass., assignor, by mesne assignments, to W. A. Pervier, trustee. Alarm signal for automobiles. 1,676,412; July 10.
Pervier, William A., trustee. (See Pervier, William A., assignor.)
Peters, Henry M., Chicago, Ill., assignor to Faries Manufacturing Company, Decatur, Ill. Reading lamp. Des. 75,746; July 10.
Petersen, Albert C., Copenhagen, Denmark. Arrangement for closing boxes. 1,676,868; July 10.
Pfeffer, Morris, assignor to Enterprise Tinware Company, New York, N. Y. Sanitary refuse can. 1,677,048; July 10.
Phelan, Louis A. M., and C. Hotchkiss, Beloit, Wis., assignors to Absolute Con-Tac-Tor Corporation. Electrical switch. 1,676,920; July 10.

Phelan, Louis A. M., and C. Hotchkiss, Beloit, Wis., assignors to Absolute Con-Tac-Tor Corporation. Electrical apparatus. 1,676,921; July 10.
Phelan, Louis A. M. Elkhart, Ind., assignor, by mesne assignments, to Absolute Con-Tac-Tor Corporation. Electric apparatus. 1,676,922; July 10.
Phelan, Louis A. M., Elkhart, Ind., and C. Hotchkiss, Milwaukee, Wis., assignors to Absolute Con-Tac-Tor Corporation. Electrical apparatus. 1,676,923; July 10.
Phelps, George H., Warehouse Point, Conn., assignor to T. E. Murray, Brooklyn, N. Y. Electric welding. 1,676,282; July 10.
Phillips, Henry W. L. (See Gwyer, A. G. C., and Phillips.)
Pickard, Greenleaf W., Newton Center, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Electrical amplifier. 1,676,744; July 10.
Pickard, Greenleaf W., Newton Center, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Electrical reactance and method and apparatus. 1,676,745; July 10.
Pierce Electric Company. (See Tideman, Selim N., assignor.)
Pietzsch, Emil. (See Körner, Bruno H., assignor.)
Pittelkow, August, Chicago, Ill., assignor to American Can Company, New York, N. Y. Interchangeable-cover cracker can. 1,676,621; July 10.
Pivoto, Felix L., Beaumont, Tex. Valve mechanism. 1,676,666; July 10.
Plate, Sten V. C., Chicago, Ill. Device for separating liquid from solid material. 1,676,459; July 10.
Plowman, Arthur S., assignor of one-fifth to S. A. Danna, New York, N. Y. Fruit seeder. 1,676,413; July 10.
Plunkett, Gaither A., Bay Point, Calif. Device for moving freight-car doors. 1,676,502; July 10.
Pneumatic Appliances Corporation. (See Weiland, Alfred, assignor.)
Podel, Abraham, assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Cap opener. 1,676,649; July 10.
Pohl, Robert, Berlin, Germany, assignor to General Electric Company. Magnetic shield for dynamo-electric machines. 1,677,004; July 10.
Poivilliers, Georges J., Paris, France. Apparatus for automatically drawing maps and plans from two terrestial or aerial photographs. 1,676,708; July 10.
Polanyi, Michael, Berlin-Zehlendorf Mitte, and S. von Bogdandy, Berlin-Dahlem, Germany. Determining the composition of copper and zinc alloys. 1,676,709; July 10.
Pollock, Robert T., New York, N. Y., assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for cracking oil. 1,676,924; July 10.
Pope Elmer R., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Attaching machine. 1,676,283; July 10.
Popper, John, Montreal, Quebec, Canada. Perfume bottle or similar container. Des. 75,747; July 10.
Powell, George A., Forest Hills Gardens, N. Y. Door-check. 1,676,284; July 10.
Prell, Henry, Chicago, Ill. Riddle. 1,676,255; July 10.
Priebe, Ernest B., Inwood, N. Y. Furnace grate 1,676,349; July 10.
Pritchard, Carl B., Scottdale, Pa. Bull wheel. 1,676,925; July 10.
Proctor, William N., Knoxville, Tenn. Towel holder. 1,677,049; July 10.
Pro-phy-lac-tic Brush Company. (See Elliot, William S., assignor.)
Pro-phy-lac-tic Brush Company. (See Elliot, W. S., and Lindgren, assignors.)
Prosperity Company, The. (See Braun, Philip N., assignor.)
Prouty, Theodore C. and W. O., Hermosa Beach, Calif., assignors to American Encaustic Tiling Company, Ltd., New York, N. Y. Supporting and exposing ceramic products in the course of their production. 1,676,799; July 10.
Pouty, Theodore C. and W. O., Hermosa Beach, assignors, by mesne assignments, to American Encaustic Tiling Company, Ltd., Los Angeles, Calif. Making tile. 1,677,098; July 10.
Prouty, Willis O. (See Prouty, Theodore C. and W. O.)
Puc, Vojtěch, Prague-Weinberge, Czechoslovakia. Press button. 1,676,710; July 10.
Quaker City Iron Works. (See Jensen, James A., assignor.)
Quick, Charles E., Houston, Tex. Aircraft motor 1,676,667; July 10.
Quisling, Sverre, Philadelphia, Pa. Adjustable pneumatic spring. 1,676,350; July 10.
Radio Corporation of America. (See Loewe, Siegmund, assignor.)
Radio Corporation of America. (See Round, Henry J., assignor.)
Radio Frequency Laboratories, Incorporated. (See Hull, Lewis M., assignor.)
Rampfel, Heinrich, Lakewood, N. J., assignor to Nathan Straus & Sons, Inc., New York, N. Y. Plate or similar article. Des. 75,745; July 10.
Rankin, Ernest L., London, England. Divider or compass. 1,676,964; July 10.
Rasmussen, Oluf H. (See Clemetson, S. A., and Rasmussen.)
Ratcliff, Arthur, assignor to Hummel & Downing Co., Milwaukee, Wis. Shirt envelope. 1,676,286; July 10.
Reaney Limited. (See Reaney, Russell J., assignor.)
Reaney, Russell J., Ottawa, Ontario, assignor to Reaney Limited, Ottawa, Canada. Wheel structure. 1,677,104; July 10.
Reap, Edward A., Oilton, Okla. Can. 1,676,711; July 10.
Recip-Roto Engine Company. (See Moors, George F., assignor.)
Reed, Martin L., and H. E. Bulla, Wilson, Okla. Paraffin cutter; 1677,050; July 10.
Reed Roller Bit Company. (See Humanson, G. A., and Childs, assignors.)
Reichold, Ludwig, Winsted, assignor to The Fitzgerald Manufacturing Company, Torrington, Conn. Non-warping hot plate. 1,677,005; July 10.
Reid, James S., Cleveland, Ohio. Pulley structure. 1,676,460; July 10.
Reid, Marcellus, Cleveland, Ohio. Universal drafting table. 1,676,746; July 10.
Rentschler, Harvey C., and J. W. Marden, East Orange, N. J., assignors to Westinghouse Lamp Company. High-frequency furnace. 1,676,926; July 10.
Republic Brass Company, The. (See Richards, P. R., and Bloch, assignors.)
Reserve Holding Company. (See Gould, Roy F., assignor.)
Richard, Joseph C., North Long Branch, N. J. Marker for trees, plants, and flowers. 1,676,927; July 10.
Richards, Peter R., and L. Bloch, assignors to The Republic Brass Company, Cleveland, Ohio. Combination faucet for laundry tubs and sinks. 1,676,800; July 10.
Richardson Company, The. (See Keller, Charles L., assignor.)
Richter, Henry G., Roselle Park, N. J., assignor to Electrad, Inc., New York, N. Y. Resistance unit and rheostat. 1,676,869; July 10.
Riffé, Antonio C., Barcelona, Spain. Shedding mechanism. 1,676,870; July 10.
Rippingille, Edward V., Detroit, Mich., assignor to Delco-Remy Corporation, Dayton, Ohio. Dual ignition for 2-cylinder engines. 1,676,503; July 10.
Rings, Fred, Chicago, Ill. Toothpick holder. 1,676,747; July 10.
Risley, Inez E., Los Angeles, Calif. Fit-easy facing for hats. 1,676,504; July 10.
Robadey-Margot, Louise, Geneva, Switzerland. Hair-waving tongs. 1,676,405; July 10.
Robbins & Myers Company, The. (See Stuart, Harve R., assignor.)
Roberts, Montague H., Englewood, N. J., assignor to Franklin Railway Supply Company. Railway booster. 1,676,575; July 10.
Robeson-Rochester Corporation. (See Scott, Howard H., assignor.)
Robinson, Albert E., and A. M. Sosa, assignors to The American Tool Works Company, Cincinnati, Ohio. Drilling machine. 1,676,461; July 10.
Robinson, John W., Woodland, Calif. Fruit-tray cleaner. 1,676,801; July 10.
Robinson, Thomas, New York, N. Y., assignor to Lancaster Asphalt, Inc. Prepared roofing and method of making. 1,676,351; July 10.
Roden, Frank A., et al. (See Burroughes, William J., assignor.)
Romano, Anthony, and R. Vitale, Brooklyn, N. Y. Valve-reseating machine. 1,676,414; July 10.
Root Manufacturing Company, The. (See Root, Ralph R., assignor.)
Root, Ralph R., Lakewood, assignor to The Root Manufacturing Company, Cleveland, Ohio. Powder-dispensing device. 1,676,462; July 10.
Rose, James R., Edgeworth, assignor to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. 1,676,871; July 10.
Rosenheim Co., Inc. (See Jones, Percival W., assignor.)
Round, Henry J., London, England, assignor to Radio Corporation of America. Telephone transmitter. 1,676,668; July 10.
Rouse, H. B., & Company. (See Knoll, William J., assignor.)
Rousmaniere, Williams & Co. (See Kirchhoff, Ernest, assignor.)
Rowe, Irving R. (See Bradley, E. E., and Rowe.)
Rowlands, Percy O., Birmingham, England. Change-speed gearing. 1,676,802; July 10.
Royal Electrotype Company. (See Blaets, Harry M., assignor.)
Royal Electrotype Company. (See Maginnis, William J., assignor.)
Royal Typewriter Company. (See Myers, Lewis C., assignor.)
Ruben, Samuel, New York, N. Y. Radiosignaling. 1,676,748; July 10.
Rudin, Joseph, Brooklyn, N. Y. Combination ladle and strainer. 1,677,120; July 10.
Rueckert, Curtis, assignor to Mathias Klein & Sons, Chicago, Ill. Blowtorch burner. 1,676,352; July 10.
Ruemelin, Richard, St. Paul, Minn. Sand-blast curtain. 1,676,576; July 10.
Rush, William J. (See Fork, Charles H., assignor.)

Russell, Herbert O., Detroit, Mich., and C. L. Paulus, Dayton, Ohio. Ground-speed indicator. 1,676,965; July 10.
Russell, Leslie A., assignor to Koebring Company, Milwaukee, Wis. Crane and shovel convertible operating mechanism. 1,676,353; July 10.
Russen, Anthony C. P., Edgewood, R. I. Thread-control attachment for looms. 1,676,803; July 10.
Ryan, Bernard R., Sidney, New South Wales, Australia. Shoe heel. 1,676,928; July 10.
Ryan, Walter D'A., Schenectady, N. Y. Headlight. 1,676,463; July 10.
Ryan, Walter D'A., Schenectady, N. Y. Headlight. 1,676,464; July 10.
Ryder, Charles D., Covington, Ky., assignor to The Cincinnati Victor Company. Lamp. 1,676,712; July 10.
Sachsse, Anna E., Dresden-Blasewitz, Germany. Back support for baths. 1,676,354; July 10.
St. John, Gamaliel C., Greenwich, Conn. Dashpot. 1,676,674; July 10.
Sakhatwalla, Byramji D., Crafton, Pa. Copper chromium ferrous alloys. 1,676,929; July 10.
Salt's Textile Manufacturing Co., The. (See Shipway, George E., assignor.)
Sand Spun Patents Corporation. (See Beatty, Douglas T., assignor.)
Sanderson, Harleigh E., Alva, Okla. Automobile signal. 1,676,287; July 10.
Sands, Thomas J., Auburn, R. I. Slug or bunch catcher. 1,677,110; July 10.
Saperston, Perry, Chicago, Ill. Insole. 1,676,355; July 10.
Saperston, Perry, Chicago, Ill. Arch support. 1,676,415; July 10.
Saplnsley, Milton C., Providence, R. I. Display cabinet. 1,676,356; July 10.
Sargood, Harry M. (See McQuinn, Thomas H., assignor.)
Scanlan, Thomas J., Oakland, Calif. Game or puzzle. 1,676,505; July 10.
Schaeffer, Charles, assignor to Société Anonyme des Anciens Etablissements Panhard & Levassor, Paris, France. Sleeve of the engine of the sleeve-valve type. 1,677,051; July 10.
Schaffler, Oscar, Detroit, Mich. Electric cooking and heating device. 1,676,669; July 10.
Schaub, Rudolph G. (See Jordan, Charles J., assignor.)
Scheck, Clarence W., Pittsburgh, Pa. Golf game apparatus. 1,676,804; July 10.
Schieler, Harry H., New Meadows, Idaho, assignor of one-third to C. E. Stoltz, Webster Groves, Mo. Motor vehicle. 1,676,357; July 10.
Schley, Rudolph E., Beaver Dam, Wis. Mechanical movement. 1,676,506; July 10.
Schloemann Aktiengesellschaft. (See Lorant, Hugo, assignor.)
Schlosser Brothers, Incorporated. (See Cheshier, Reuel C., assignor.)
Schlosser, Elizabeth M., Minneapolis, Minn. Sanitary belt. 1,676,288; July 10.
Schmalz, Albano, Chicago, Ill. Machinist's work clamp. 1,676,289; July 10.
Schmid, Max. (See Straub, F., de Montmollin, and Schmid.)
Schmitt, Joseph, Brunstatt, France. Carding machine. 1,676,577; July 10.
Schmitz, Fred A., assignor to The Berger Manufacturing Company, Canton, Ohio. Metallic shelving. 1,676,930; July 10.
Schmunk, Charles E., Crafton, Pa. Lamp. 1,676,670; July 10.
Schneider, Herman. (See Sperti, G., Norris, Withrow, and Schneider.)
Schott, Charles R., New York, N. Y. Dispensing device. 1,676,358; July 10.
Schott, Howard H., assignor to Robeson-Rochester Corporation, Rochester, N. Y. Coffee percolator. Des. 75,749; July 10.
Schott, Howard H., assignor to Robeson-Rochester Corporation, Rochester, N. Y. Waffle iron. Des. 75,750; July 10.
Schott, Howard H., assignor to Robeson-Rochester Corporation, Rochester, N. Y. Coffee percolator. Des. 75,751; July 10.
Schoettel, Eugen. (See Liebert, H. R., and Schoettel.)
Schron, Christy, assignor to The White Motor Company, Cleveland, Ohio. Work holder. 1,676,290; July 10.
Schubert, Franz J. (See Garrett Robert E., assignor.)
Schulte, Fritz. (See Herz, R., Schulte, and Zerweck.)
Schultz, Edward J., Covington, Ky. Tie. 1,676,291; July 10.
Schulzke, Richard F., assignor to Zoss Ladder Works, Portland, Oreg. Ladder. 1,676,915; July 10.
Schurmann, William A., assignor to W. A. Schurmann & Co., Inc., Chicago, Ill. Egg carton. 1,676,872; July 10.
Schurmann, W. A., & Co. (See Schurmann, William A., assignor.)
Schurr, Charles H., assignor to The Lees-Bradner Company, Cleveland, Ohio. Hobbing machine. 1,676,873; July 10.
Schwartz, Frank, New York, N. Y. Beam compass. 1,676,359; July 10.
Schwartz, Frank, New York, N. Y. Auxiliary beam-compass kit for drawing instruments. 1,676,360; July 10.
Schwartz, Gerhardt F., St. Louis, Mo. Electric control device. 1,676,671; July 10.
Schwemlein, William, assignor to The Parkersburg Rig and Reel Company, Parkersburg, W. Va. Bearing. 1,676,292; July 10.
Schwinn, Frank W., Chicago, Ill. Refrigerating system. 1,676,837; July 10.
Scott, Alva W., and H. D. Geyer, assignors to The Inland Manufacturing Company, Dayton, Ohio. Locking handwheel. 1,676,465; July 10.
Scott Paper Company. (See Liebeck, Harry, assignor.)
Scuterud, Harold, Chicago, Ill. Automobile bumper. 1,676,749; July 10.
Seager, Royal A., Ogden, Utah. Connecting link for cross chains of anti-skid. 1,676,966; July 10.
Seaman Body Corporation. (See Hardtke, Edward J., assignor.)
Sebrell, Lorin B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Accelerator, method of vulcanizing caoutchouc and product thereof. 1,676,838; July 10.
Seghers, Emiel P., Chicago, Ill. Valve-stem cover. 1,676,578; July 10.
Seidell, Le Roy, and G. B. Jack, jr., New York, assignors to Jaton Manufacturing Corporation, Brooklyn, N. Y. Waterproof fabric. 1,676,362; July 10.
Seidell, Le Roy, and G. B. Jack, jr., New York, assignors to Jaton Manufacturing Corporation, Brooklyn, N. Y. Impregnating machine and process. 1,676,363; July 10.
Semenov, Ivan A., Pilsen, Czechoslovakia. Apparatus for pressing together the edges of tubes. 1,676,361; July 10.
Senger, Albert C., Hamilton, Ohio. Tire-changing apparatus. 1,677,052; July 10.
Sepon, John, Chelsea, Mass. Toy vehicle. 1,676,839; July 10.
Seyer, Humboldt M. (See Astley, Edward F., assignor.)
Shank, Dorothy E. (See Heft, H. L., Van Arsdale, and Shank.)
Sharp & Dohme, Inc. (See Dohme, Alfred R. L., assignor.)
Sharp, William L., assignor to The Ohio Foundry and Manufacturing Company. Steubenville, Ohio. Gas heater. Des. 75,752; July 10.
Shaukis, Arthur J., Haverhill, Mass. Atomizer. 1,677,053; July 10.
Shaw, Louis E., East Orange, N. J., assignor to E. Unger, New York, N. Y. Heater-supporting chandelier. 1,677,054; July 10.
Sheppard, Samuel E., assignor to Eastman Kodak Company, Rochester, N. Y. Photograph and making the same. 1,676,580; July 10.
Shipway, George E., Noroton, assignor to The Salt's Textile Manufacturing Co., Bridgeport, Conn. Manufacture of colored pile fabrics. 1,676,931; July 10.
Shively, Jess A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Valve mechanism. 1,676,840; July 10.
Shoaff, Paul S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Golf-ball center. 1,676,841; July 10.
Shoemaker, Alvin H., Seattle, Wash. Wheel. 1,676,874; July 10.
Shortt, Howard G., Carthage, assignor of one-half to Stebbins Engineering and Manufacturing Company, Watertown, N. Y. Automatic receiver pump. 1,676,875; July 10.
Shuman, Arno. (See Cox, W., and Shuman.)
Shur-On Standard Optical Company. (See Long, Eli M., assignor.)
Siemens & Halske Aktiengesellschaft. (See Gross, Reinhold, assignor.)
Silver, Benjamin J., Gloversville, N. Y. Shoe inner sole. 1,677,105; July 10.
Simmen, Frank P., San Mateo, assignor to Sunset Feather Company, San Francisco, Calif. Feather-washing machine. 1,676,713; July 10.
Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Feeding mechanism. 1,676,293; July 10.
Simon, Louis J., London, England. Terminal for electric and wireless connections. 1,676,967; July 10.
Simons, Abraham, New York, N. Y. Diamond lathe tool. 1,677,055; July 10.
Sklarek, Clifford, assignor to International Spotlight Corporation. Chicago, Ill. Dirigibly-mounted light. 1,676,364; July 10.
Sladky, Alexander C., and J., assignors to National Enameling & Stamping Co., Inc., Milwaukee, Wis. Liquid-fuel heating stove. 1,676,805; July 10.
Sladky, Joseph. (See Sladky, Alexander C. and J.)
Slonaker, D. H., et al. (See Davison, Lawrence, assignor.)
Small, Norman M., assignor to Frick Company, Waynesboro, Pa. Check valve. 1,677,056; July 10.
Smalley, William D., Minneapolis, Minn. Turbine. 1,676,806; July 10.
Smallhouse, Albert A., Los Angeles, assignor of thirty-nine one-hundredths to J. Aebicher, Palmdale, Calif. Washing and cleaning apparatus. 1,676,842; July 10.
Smallidge, Frank E., Wenatchee, Wash. Fruit-cleaning machine. 1,676,714; July 10.
Smith, James E., Wilkinsburg, assignor of one-half to I. Gordon, Pittsburgh, Pa. Process and apparatus for forming grids. 1,676,366; July 10.

Smith, Lloyd B., and G. W. Jamison, assignors to The Atlantic Refining Company, Philadelphia, Pa. Sludge treatment. 1,676,294; July 10.
Smith, Roy H. (See de Lapotterie, Otto H., assignor.)
Smith, S., & Sons (Motor Accessories) Limited. (See Spiller, Herbert W., assignor.)
Smith, Walter S., Columbus, Ohio. Scale. 1,676,295; July 10.
Smirnoff, Nicholas, Brooklyn, N. Y. Rocking and galloping horse. 1,676,365; July 10.
Snavely, Clarence S., Pittsburgh, and W. B. Wells, Wilkinsburg, asignors to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 1,676,466; July 10.
Snyder, Earl M., Detroit, Mich. Amalgam plugger. 1,676,715; July 10.
Société Anonyme des Anciens Etablissements Panhard & Levassor. (See Schaeffer, Charles, assignor.)
Society "Chemical Works formerly Sandoz." (See Knecht, O., and Brutsch, assignors.)
Society of Chemical Industry in Basle. (See Gams, A., and Widmer, assignors.)
Society of Chemical Industry in Basle. (See Straub, F., de Montmollin, and Schmid, assignors.)
Sosa, Augustus M. (See Robinson, A. E., and Sosa.)
Spanovic, Ninko, Dusquesne, Pa. Pipe wrench. 1,676,507; July 10.
Speedpak Dispenser Corporation. (See Huntley, Burton L., assignor.)
Spencer, John A., Revere, assignor to Spencer Thermostat Company, Cambridge, Mass. Figure toy. 1,676,296; July 10.
Spencer Thermostat Company. (See Johnson, Norman E., assignor.)
Spencer Thermostat Company. (See Spencer, John A., assignor.)
Sperti, George, Covington, Ky., R. J. Norris, Greenville, R. B. Withrow and H. Schneider, Cincinnati, assignors to D. Laurence, trustee, Cincinnati, Ohio. Light-treatment process. 1,676,579; July 10.
Spiller, Herbert W., assignor to S. Smith & Sons (Motor Accessories) Limited, London, England. Carbureting device. 1,676,932; July 10.
Stafford, Rogers T. (See Ballou, F. A., and Stafford.)
Stahl, Edward J., assignor to The Baker-Raulang Company, Cleveland, Ohio. Seat construction and seat attachment. 1,676,672; July 10.
Stalker, Frederick W., assignor to Taylor Instrument Companies, Rochester, N. Y. Gauging instrument. 1,676,673; July 10.
Stancliffe, Cecil W., assignor to Valveless Oil Burner Corporation, New York, N. Y. Fuel control for liquid fuel burners. 1,676,933; July 10.
Standard Development Company. (See Howard, F. A., and Parker, assignors.)
Standard Oil Company. (See Hunneman, Roger D., assignor.)
Standard Oil Company. (See Wilson, Robert E., assignor.)
Standard Oil Development Company. (See Becker, Arman E., assignor.)
Standard Oil Development Company. (See Coleman, S. P., and Hughes, assignors.)
Standard Oil Development Company. (See Howard, Frank A., assignor.)
Standard Oil Development Company. (See Lewis, Warren K., assignor.)
Stanley, Robert, De Witt, Iowa. Oat huller. 1,677,111; July 10.
Stannard, Winfield H., Matteson, assignor to Central Scientific Company, Chicago, Ill. Constant-temperature oven. 1,676,876; July 10.
Star Contra Propeller Ltd. A/S. (See Overgaard, Olav, assignor.)
Starkweather, George E., assignor of one-fourth to T. A. Holland and one-fourth to B. Chambers, Los Angeles, Calif. Heater. 1,677,006; July 10.
Stateler, Ernest S. (See Kohman, H. A., Irvin, and Stateler.)
Stebbins Engineering and Manufacturing Company. (See Shortt, Howard G., assignor.)
Steeb, Harry L., Rock Island, Ill. Book end. Des. 75,753; July 10.
Steele, Edwin G. (See Sutton, H. M., and Steele.)
Steele, Walter L. (See Sutton, H. M., and Steele.)
Stein, Harry B., Chicago, Ill. Door and jamb construction. 1,677,058; July 10.
Steiner, George A., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. Re17,031; July 10.
Steiner Sales Company. (See Steiner, George A., assignor.)
Stephens, Andrew J., Kansas City, Mo. Rubber stop sign. 1,676,843; July 10.
Stergianopulos, Demetrios P., New York, N. Y. Portable lamp attachment. 1,676,934; July 10.
Sterling Motor Truck Company. (See Wollensak, A. C., Jacobs, and Baldus, assignors.)
Stevens, Fred N., Salem, Va. Roofing tongs. 1,676,844; July 10.
Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Flap-trimming machine. 1,676,807; July 10.
Stewart, Franklin W., Chicago, Ill. Combined steering wheel and ignition lock. 1,676,416. July 10.
Stewart-Warner Speedometer Corporation. (See Van Guilder, Walter, assignor.)
Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Patterson, N. J. Heel-seat-fitting machine. 1,676,297; July 10.
Stieglitz, Henry M., assignor to Frank Adam Electric Co., St. Louis, Mo. Outlet box. 1,676,298; July 10.
Stock, Johann J. F., Munich, Germany. Device for cleaning and smoothing films and the like. 1,676,299; July 10.
Stöckemann, Ernst, Berlin-Tempelhof, Germany. Stageless change-speed gearing. 1,676,367; July 10.
Stoltz, Charles E. (See Schieler, Harry H., assignor.)
Stone, Howard B., London, England. Filing post for loose-leaf ledgers and like binders. 1,676,968; July 10.
Straub, Fritz, de Montmollin, Basel, and M. Schmid, Riehen, near Basel, assignor to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Chromium compound of pyrazolone-azo-dyestuff and making same. 1,676,581; July 10.
Straus, Nathan, & Sons, Inc. (See Rampfel, Heinrich, assignor.)
Straw, Walter E., Keene, Tex. Brooder. 1,676,583; July 10.
Strecter, Albert B., assignor to Dual Motors Corporation, New York, N. Y. Air compressor for internal-combustion engines. 1,677,057; July 10.
String, Joseph S., East Orange, assignor to J. S. & J. F. String Incorporated, Newark, N. J. Hydrocarbon-burner system. 1,676,877; July 10.
String, J. S. & J. F., Incorporated. (See String, Joseph S., assignor.)
Stromberg Electric Company. (See Crook, C. M., and Long, assignors.)
Stroup, Everett P. (See Cook, W. A., and Stroup.)
Stuart, Donald R., Omaha, Nebr. Corner piece for buildings. 1,676,582; July 10.
Stuart, Harve R., assignor to The Robbins & Myers Company, Springfield, Ohio. Oscillating fan. 1,676,467; July 10.
Studebaker Corporation, The. (See Breneman, Paul E., assignor.)
Stuler, Rudolph W., McKeesport, Pa. Furnace for heating metal sheets and plates. 1,676,590; July 10.
Stumpf, Johann, Berlin, Germany. Delivering preheated feedwater. Re17,032; July 10.
Süddeutschen Telephone-Apparate-Kabel- u. Drahtwerke Aktien Gesellschaft. (See Liebert, Gustav, assignor.)
Summers, Ivan H., Lynn, Mass., assignors to General Electric Company. Coil winding. 1,677,007; July 10.
Sunbeam Electric Manufacturing Company. (See Jones, L. B., and Werzner, assignors.)
Ktien Gesellschaft. (See Liebert, Gustav, assignor.
Sunset Feather Company. (See Simmen, Frank P., assignor.)
Superheater Company. The. (See Broide, Benjamin, assignor.)
Superheater Company, The. (See Brooks, C. E., and Brandt.)
Superheater Company, The. (See Oatley, Henry B., assignor.)
Sutton, Henry M., and W. L. and E. G. Steele, Dallas, Tex. One-fan combined dust-collecting and air-supply system for pneumatic separators and cleaners. 1,676,969; July 10.
Sved, Alexander, New York, N. Y. Incandescent electric lamp. 1,676,300; July 10.
Taumac Corporation, The. (See Zuschlag, Theodor, assignor.)
Taussig, John H., assignor to The U. G. I. Contracting Company, Philadelphia, Pa. Automatic control for water-gas sets. 1,677,102; July 10.
Taylor, Charles, et al. (See Burroughes, William J., assignor.)
Taylor, Cyrus. (See Bergmann, C. N., and E. Z. and C. Taylor.)
Taylor, Elmer Z. (See Bergmann, C. N., and E. Z. and C. Taylor.)
Taylor, George C., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Power plant. 1,676,935; July 10.
Taylor Instrument Companies. (See Stalker, Frederick W., assignor.)
Taylor, James H., assignor of one-half to W. T. Teeden, jr., Devon Conn. Shock absorber for motor vehicles. 1,676,808; July 10.
Teachers College. (See Heft, H. L., Van Arsdale, and Shank, assignors.)
Tebbs, Paul M., Harrisburg, Pa. Electrical contactor. 1,677,059; July 10.
Teeden, William T., jr. (See Taylor, James H., assignor.)
Teisher, Austin A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Belt and making the same. 1,676,845; July 10.
Thomas, Albert H., Louisville, Ky. Tire spreader. 1,676,970; July 10.
Thorne, Joseph G., Barnum, Minn. Door fastener. 1,677,060; July 10.
Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,676,878; July 10.

Tice, Percival S., Chicago, Ill. Internal-combustion engine temperature control. 1,677,103; July 10.
Tideman, Selim N., Wilmette, Ill., assignor to Pierce Electric Company. Stringing conductors. 1,676,584; July 10.
Tiefenbacher, Thomas B., North Elizabeth, N. J. Locking coupling. 1,676,585; July 10.
Timken Roller Bearing Company, The. (See Frank, Pardee H., assignor.)
Timken Roller Bearing Company, The. (See Wallin, Philip, assignor.)
Titusville, Forge Company. (See Montgomery, Gustavus A., assignor.)
Todd, James A. (See Estill, S. C., and Todd.)
Toman, James, Chicago, Ill. Velocipede. 1,677,061; July 10.
Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Program-transmission system for apartment houses. 1,676,301; July 10.
Toth, Stephen. (See Cesar, Gyula, assignor.)
Townsend, George R., Schenectady, N. Y., assignor to General Electric Company. Rotary switch mechanism. 1,677,008; July 10.
Trevino, Diana R., Rome, Tex. Garment hanger. 1,676,936; July 10.
True, Edwin S., Oak Park, Ill. Electrical condenser. 1,676,417; July 10.
Trumble, Milon J., Los Angeles, Calif. Recovering light hydrocarbons from carbonaceous material. 1,676,675; July 10.
Tryco Products, Inc. (See Holmes, Franklin T., assignor.)
Turner, Erven R., assignor to C. B. Grant, Memphis, Tenn. Multiple lock. 1,676,623; July 10.
Turner, George F., Mahoningtown, Pa. Air-compression-cylinder lubricator. 1,676,586; July 10.
U. G. I. Contracting Company. (See Taussig, John H., assignor.)
Uhlig, Richard W., Newark, N. J., assignor to Albert Voigt, Brooklyn, N. Y. Typewriting machine. 1,676,809; July 10.
Ulmer, Joseph A., Los Angeles, Calif. Ignition device for smudge pots. 1,676,368; July 10.
Ulrich, Charles B., assignor to Art Metal Construction Company, Jamestown, N. Y. Posting bus or truck. 1,676,810; July 10.
Ulrich, William S. L., Grafton, Ill. Tractor. 1,676,622; July 10.
Ulrich, William S. L., Grafton, Ill. Tractor mechanism. 1,676,624; July 10.
Underwood Elliott Fisher Company. (See Hexter, Julian S., assignor.)
Unger, Ernest. (See Shaw, Louis E., assignor.)
Union Switch & Signal Co. (See Field, Oscar S., assignor.)
Union Switch & Signal Company, The. (See Lucas, Samuel M., assignor.)
Union Switch & Signal Company, The. (See Snavely, C. S., and Wells, assignors.)
United Shoe Machinery Corporation. (See Glidden, Harvey L., assignor.)
United Shoe Machinery Corporation. (See Hadaway, John B., assignor.)
United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)
United Shoe Machinery Corporation. (See Pope, Elmer R., assignor.)
United Shoe Machinery Corporation. (See Simmons, Ralph C., assignor.)
United Shoe Machinery Corporation. (See Stewart, William C., assignor.)
United States Gypsum Company. (See Birdsey, Charles R., assignor.)
U. S. Industrial Alcohol Co. (See Keyes, Donald B., assignor.)
Universal Button Fastening and Button Company. (See Clark, John M., assignor.)
Universal Oil Products Company. (See Pollock, Robert T., assignor.)
Upton, Albert P. (See Goldsborough, Paul, assignor.)
Valveless Oil Burner Corporation. (See Stancliffe, Cecil W., assignor.)
Van Arsdale, May B. (See Heft, H. L., Van Arsdale, and Shank.)
Van Arnan Manufacturing Company. (See Hess, William J., assignor.)
Van der Poel, Johannes M., Eindhoven, Netherlands, assignor to General Electric Company. Exhaust machine. 1,676,302; July 10.
Vanderveld, Anthony, assignor of one-half to H. B. Parrish, Grand Rapids, Mich. Pedestal mounting. 1,676,508; July 10.
Vanderveld, Anthony, assignor of one-half to H. B. Parrish, Grand Rapids, Mich. Cloth-measuring machine. 1,676,587; July 10.
Van Guilder, Walter, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vehicle searchlight mounting. 1,676,750; July 10.
Van Hise, Lester E., Altadena, assignor to J. V. Baldwin, Los Angeles, Calif. Fuel-feed system for internal-combustion engines. 1,676,751; July 10.
Van Hise, Lester E., Los Angeles, Calif.; said Van Hise assignor to J. V. Baldwin. Internal-combustion engine. 1,676,811; July 10.
Van Zyl, Cornelius, Sheldon, Iowa. Machine for stapling chick boxes. 1,676,718; July 10.
Verdan, Charles, Strasbourg, and L. M. J. Loiseau, Paris, France, assignors to Compagnie Francaise pour l'Exploitation des Procedes Thompson-Houston and Ateliers J. Carpentier. Signaling system applicable to telegraphy and telemechanical transmission. 1,677,062; July 10.
Victor Talking Machine Company. (See Moyer, William W., assignor.)
Victory, William J., assignor to New Britain Machine Company, New Britain, Conn. Speed-handle wrench extension. 1,676,370; July 10.
Vidarshof, Eric E., Westby, Wis. Adjustable boring-bar holder. 1,676,937; July 10.
Vincent, Harry S., Ridgewood, N. J., assignor to Franklin Railway Supply Company. Locomotive booster apparatus. 1,676,509; July 10.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,676,369; July 10.
Vincent, Jesse G., Dayton, Ohio, assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. 1,676,418; July 10.
Vitale, Ralph. (See Romano, A., and Vitale.)
Voices, Incorporated. (See Konoff, Alexander, assignor.)
Voigt, Albert. (See Uhlig, Richard W., assignor.)
Volwiler, Ernest H. (See Adams, R., and Volwiler.)
Von Bogdandy, Stephan. (See Polanyi, M., and von Bogdandy.)
Von Eberhard, Otto, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Milling cutter. 1,676,719; July 10.
Von Hofen, Frederick G. (See Axtell, J. M., and Von Hofen.)
Wackerle, Lewis E., Waukegan, Ill., assignor to Chicago Hardware Foundry Company, North Chicago, Ill. Table. Des. 75,754; July 10.
Wagenhorst, James H., Jackson, Mich. Vehicle wheel. 1,676,303; July 10.
Wagner, Emanuel E., Lamar, Mo. Gauge tool. 1,677,063; July 10.
Waldo, Richard H. (See Anderson, J. G., and Waldo.)
Walker, Warren R., Great Kills, N. Y., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Electric switch. 1,676,752; July 10.
Walker, Warren R., Great Kills, N. Y., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Liquid-flow switch. 1,676,753; July 10.
Walker, Warren R., Great Kills, N. Y., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Mercury switch. 1,676,754; July 10.
Walker, William L., New York, N. Y. Sound transmitter. 1,676,625; July 10.
Wallin, Philip, assignor to The Timken Roller Bearing Company, Canton, Ohio. Gauging machine. 1,676,879; July 10.
Wallis, John S., Great Neck, N. Y., assignor to Franklin Railway Supply Company. Lateral motion for axle boxes. 1,676,588; July 10.
Walstad, Adolph N., Tacoma, Wash. Hinge. 1,676,589; July 10.
Walter, Harrison B., assignor, by mesne assignments, to Container Corporation of America, Chicago, Ill. Packing doors, frames, and the like. 1,676,304; July 10.
Walton, Alfred L., Blackpool, England. Game apparatus. 1,676,755; July 10.
Wanamaker, John, New York. (See Anderson, J. G., and Waldo, assignors.)
Warner Gear Company. (See White, Samuel O., assignor.)
Warp Compressing Machine Company. (See Longvall, Raymond C., assignor.)
Warren, Glenn B. (See Buckland, B. O., and Warren.)
Warwick, Harold L., Fort Worth, Tex. Teaching the deaf to hear and mutes to speak. 1,676,716; July 10.
Washburn Company, The. (See Williams, Myrl J., assignor.)
Waterman, Nixon, Canton, Mass. Plant support. 1,676,468; July 10.
Waters-Genter Company. (See Forbes, Thomas C., assignor.)
Watson, Charles S., Toronto, Ontario, Canada. Closure for containers. 1,676,846; July 10.
Watt, James A. D., London, England. Fastening for boxes or cases containing rotary sharpening apparatus for razors and edge tools. 1,677,064; July 10.
Weaver, Arthur B., Philadelphia, Pa., assignor to General Electric Company. Pull-button-controlling switch. 1,676,971; July 10.
Weichsel, Arthur J., New York, N. Y. Rotary container. 1,676,756; July 10.
Weiland, Alfred, Neshanic, N. J., assignor to Pneumatic Appliance Corporation, New York, N. Y. Universal joint. 1,676,676; July 10.
Weiss, John P., South Bend, Ind. Electric table lamp. Des. 75,753; July 10.
Welch, Abraham L., assignor of one-half to A. B. McClelland, Rush Run, W. Va. Securing device for miners' lamps. 1,676,972; July 10.

Welcomer, Harry C., Steelton, Pa. Electrical water heater. 1,676,510; July 10.
Weldon, Roy V., assignor to Great Northern Paper Company, Millinocket, Me. Paper making. 1,676,305; July 10.
Weller, John H., Cadillac, Mich. Vaporized gas and air starter for automobiles and the like. 1,676,591; July 10.
Wells, Clinton. (See Zimmerman, F. D., and Wells.)
Wells, Wesley B. (See Snavely, C. S., and Wells.)
Welte-Mignon Corporation. (See Cheek, Tolbert F., assignor.)
Werzner, Edward H. (See Jones, L. B., Werzner.)
Wesley, Joseph A., assignor to Lu-Mi-Nus Signs, Inc., Chicago, Ill. Advertising sign. Des. 75,756; July 10.
West, Oscar E., New Orleans, La. Apparatus for trimming grain. 1,676,757; July 10.
Western Battery & Supply Company, The, et al. (See Jones, Hugh J., assignor.)
Western Electric Company. (See Albright, Henry F., jr., assignor.)
Western Electric Company. (See Hart, Carl D., assignor.)
Western Electric Company. (See Heising, Ryamond A., assignor.)
Western Electric Company. (See Lamplough, Leslie F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fechheimer, Carl J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Johnson, Josiah F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Morgan, David W. R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Taylor, George C., assignor.)
Westinghouse Lamp Company. (See Higgins, John J., assignor.)
Westinghouse Lamp Company. (See Rentschler, H. C., and Marden, assignors.)
Whitaker, William D., Elkins Park, Pa. Mop. 1,676,880; July 10.
White, Alvah C. (See Finch, Paul R., assignor.)
White, Edward A., Lewiston, Idaho. Fruit-cleaning apparatus. 1,676,306; July 10.
White, James S., Chicago, Ill. Golf bag. 1,676,592; July 10.
White Motor Company, The. (See Churcher, William B., assignor.)
White Motor Company, The. (See Schron, Christy, assignor.)
White, Samuel O., assignor to Warner Gear Company, Muncie, Ind. Auxiliary transmission. 1,676,758; July 10.
White, William E., Chicago, Ill. Bar clip. 1,677,066; July 10.
Whitney, Clarence E., et al., executors. (See Hanson, Bengt M. W.)
Wicks, John, Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,676,469; July 10.
Widmer, Gustave. (See Gama, A., and Widmer.)
Widmer, Howard G., Brooklyn, assignor to Arkell Safety Bag Company, New York, N. Y. Process and mechanism for producing stretchable paper. 1,676,759; July 10.
Wildhaber, Ernest, Brooklyn, assignor to Gleason Works, Rochester, N. Y. Method of and machine for producing gears. 1,676,371; July 10.
Wildhaber, Ernest, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y. Method of and machine for producing gears. 1,676,419; July 10.
Wilhelm, Herman, New York, N. Y. Boudoir slipper. Des. 75,757; July 10.
Willamette Iron and Steel Works. (See Eastham, Joseph S., assignor.)
Williams, Myrl J., Chicago, Ill., assignor to The Washburn Company, Worcester, Mass. Support. 1,676,372; July 10.
Williams, Noble W., assignor to Hardwick & Magee Company, Philadelphia, Pa. Carpet. Des. 75,758; July 10.
Wilson, Edward P. (See Neal, S. G., Astle, and Wilson.)
Wilson, Fred D. (See Wilson, Horace R. and F. D.)
Wilson-Haffenden, James, London, England. Hand iron. 1,677,065; July 10.
Wilson, Horace R. and F. D., Harvey, Ill. Road grader. 1,676,938; July 10.
Wilson, John A., Windsor, Ontario, Canada. Goggles. 1,676,760; July 10.
Wilson, Robert E., Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind. Distilling hydrocarbon oils. 1,676,610; July 10.
Wiltsie, Oliver E., Troy, N. Y. Adjustable releasing device. 1,677,009; July 10.
Winninghoff, Wilford J. (See Malley, R. D., and Winninghoff.)
Winter, August P., assignor, by mesne assignments, to S. C. Clow, Minneapolis, Minn. Grate for dump pits. 1,676,307; July 10.
Winters, Alexander F., Grand Rapids, Mich. Cupboard latch. 1,676,593; July 10.
Wireless Specialty Apparatus Company. (See Pickard, Greenleaf W., assignor.)
Withrow, Robert B. (See Sperti, G., Norris, Withrow, and Schneider.)
Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture mechanism. 1,676,594; July 10.
Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Optical unit for cameras. 1,676,595; July 10.
Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Spring motor. 1,676,596; July 10.
Wollensak, Arthur C., A. Jacobs, and P. C. Baldus, assignors to Sterling Motor Truck Company, Milwaukee, Wis. Brake. 1,676,761; July 10.
Woltz, Albert M., Baltimore, Md., assignor, by mesne assignments, to Grand Rapids Store Equipment Corporation, Grand Rapids, Mich. Division-board support. 1,676,373; July 10.
Wood, Sidney C., Brooklyn, assignor of one-half to Wallace E. J. Collins, Huntington, Long Island, N. Y. Sanitary syringe nozzle. 1,676,308; July 10.
Wood, Wilfred R., London, England, assignor to International Combustion Engineering Corporation, New York, N. Y. Pulverized-fuel burner. 1,676,511; July 10.
Woodin, William H., jr., Plainfield, N. J. Combination sink unit. 1,676,717; July 10.
Woodman, Walter S., Macclesfield, England, assignor to Meakin & Ridgeway, Inc., New York, N. Y. Plate or similar article. Des. 75,759; July 10.
Wright, John H., Larchmont, assignor to Zonite Products Company, New York, N. Y. Antiseptic preparation. 1,676,309; July 10.
Yeager, Fay A., assignor to J. R. M. Knudsen, Muskegon, Mich. Window construction. 1,676,597; July 10.
Young, Thomas. (See Pagenhart, Bejamin F., assignor.)
Zarth, Henry F., assignor to American Range Corporation, Shakopee, Minn. Range. Des. 75,760; July 10.
Zerk, Oscar U., Chicago, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricating-dispensing apparatus. 1,676,626; July 10.
Zerweck, Werner. (See Herz, R., Schuite, and Zerweck.)
Zimmermann, Fred D., and C. Wells, Mount Clare, Nebr., said Wells assignor to said Zimmermann. Automatic all-weather-strip. 1,677,067; July 10.
Zimmermann, Lillie, Fond du Lac, Wis. Card game. 1,677,010; July 10.
Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Adjustable spindle bearing for hobbing machines. 1,676,310; July 10.
Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Cross-rail guard. 1,676,311; July 10.
Zonite Products Company. (See Wright, John H., assignor.)
Zoss Ladder Works. (See Schulzke, Richard F., assignor.)
Zuschlag, Theodor, assignor to The Taumac Corporation, New York, N. Y. Method and apparatus for exploring subterranean strata. 1,676,847; July 10.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 10TH DAY OF JULY, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Accelerator, Vulcanizing caoutchouc and product thereof. L. B. Sebrell. 1,676,838; July 10.
Acid, Making acetic. H. W. Matheson. 1,676,454; July 10.
Acids, Converting cyannaphthalene sulphonic. R. Herz, F. Schulte, and W. Zerweck. 1,676,692; July 10.
Acids, Converting cyannaphthalene sulphonic. R. Herz, F. Schulte, and W. Zerweck. 1,677,086; July 10.
Acids, Production of esters of aromatic. R. Adams and E. H. Volwiler. 1,676,470; July 10.
Adding machine and cash register, Duplex. E. Kassner. 1,676,559; July 10.
Advertisement carrier. A. Deutschmeister. 1,677,022; July 10.
Aerial. G. R. Conrad. 1,676,524; July 10.
Air bag, Sectional. R. S. Burdette. 1,676,817; July 10
Air-brake apparatus. S. G. Neal. Re17,026; July 10.
Air-brake apparatus. S. G. Neal. Re17,028–9; July 10.
Air-brake apparatus. S. G. Neal, W. Astle, and E. P. Wilson. Re17,027; July 10.
Air cooler. D. J. Besse. 1,677,070; July 10.
Aircraft. C. S. Hall. 1,676,549; July 10.
Aircraft motor. C. E. Quick. 1,676,667; July 10.
Air-flow phenomena, Visualizing. E. N. Fales and F. W. Caldwell. 1,676,984; July 10.
Air-pressure brake. E. Krehann. 1,677,033; July 10.
Airships, Gas cell for rigid. H. R. Liebert and E Schoettel. 1,676,832; July 10.
Alarm: *See*—
Overflow alarm.
Alarm bell, Arrangement for the better exhaust and use of the explosion of the motor gas in order to operate an. G. Nocito. 1,676,346; July 10.
Alcohol and the like, Dehydrating. W. K. Lewis. 1,676,700; July 10.
Alcohol, Obtaining absolute. D. B. Keyes. 1,676,735; July 10.
Alloy. A. G. C. Gwyer and H. W. L. Phillips. 1,676,856; July 10.
Alloys, Copper chromium ferrous. B. D. Saklatwalla. 1,676,929; July 10.
Alloys, Determining the composition of copper and zinc. M. Polanyi and S. von Bogdandy. 1,676,709; July 10.
Amalgam plugger. E. M. Snyder. 1,676,715; July 10.
Amusement device, Rotary. E. E. Clark. 1,676,522; July 10.
Amylyl resorcinol, Normal. A. R. L. Dohme. 1,677,116; July 10.
Antiseptic preparation. J. H. Wright. 1,676,309; July 10.
Applicator, Quartz. E. R. Berry. 1,677,016; July 10.
Arch support. P. Saperston. 1,676,415; July 10.
Arch support, Foot-. P. Langemann. 1,676,398; July 10.
Armature mounting for vibratory units, Eccentrically-pivoted. G. F. Borkman. 1,676,380; July 10.
Arrangement for closing boxes. A. C. Petersen. 1,676,868; July 10.
Assembling device for cardcases. C. L'Enfant. 1,676,338; July 10.
Assembling machine, Blank-. T. Lund. 1,676,341; July 10.
Atomizer. A. J. Shaukis. 1,677,053; July 10.
Attaching machine. E. R. Pope. 1,676,283; July 10.
Automobile alarm signal. W. A. Pervier, 1,676,412; July 10.
Automobile body construction. A. Carlson, 1,676,476; July 10.
Automobile hood illumination. C. K. Denman 1,676,431; July 10.
Automobile signal. H. E. Sanderson. 1,676,287; July 10.
Automobiles, Shock-absorbing means for. E. Conti. 1,676,525; July 10.
Awning. G. R. Hall. 1,677,080; July 10.
Axle boxes, Lateral motion for. J. S. Wallis. 1,676,588; July 10.
Baby walker. E. Boehm. Des. 75,715; July 10.
Back support for baths. A. E. Sachsse. 1,676,354; July 10.
Bag: *See*—
Golf bag.
Baking attachment. L. H. Larsen. 1,676,830; July 10.
Bar clip. W. E. White. 1,677,066; July 10.
Bar holder, Adjustable boring. E. E. Vidarshof. 1,676,937; July 10.
Barometric device. I. I. Bremeeff. 1,676,983; July 10.
Battery: *See*—
Dry-cell battery.
Battery connecter. A. C. De Lorme. 1,676,387; July 10.
Battery switch. H. Hubbell, jr. 1,676,608; July 10.
Beam or pole structure. C. M. Goodrich. 1,676,824; July 10.
Bean separator. C. S. Benton. 1,677,015; July 10.
Bearing. W. Schwemlein. 1,676,292; July 10.
Bearing, Crown. R. D. Bobbitt. 1,677,071; July 10
Bearing for hobbing machines, Adjustable spindle. W. F. Zimmermann. 1,676,310; July 10.
Bearing, Line-shaft. H. Krause. 1,676,784; July 10.
Bearing plate for rail anchors. B. M. Cheney. 1,676,888; July 10.
Bearing, Shaft. P. H. Frank. 1,676,894; July 10.
Bed for automobiles of the sedan type, Portable. J. M. Line. 1,676,987; July 10.
Belt and making the same. A. A. Teisher. 1,676,845; July 10.
Belt, Sanitary. E. M., Schlosser. 1,676,288; July 10.
Beveling machine. W. J. Knoll. 1,676,336; July 10.
Binder, Brick or tile veneer. S. C. Estill and J. A. Todd. 1,676,535; July 10.
Binding machine, Rotary. J. M. Leaver, jr. 1,676,956; July 10.
Bins, Construction in. A. H. Levene. 1,676,908; July 10.
Bit: *See*—
Core-drill bit.
Block: *See*—
Picture block. Structural block.
Blowtorch burner. C. Rueckert. 1,676,352; July 10.
Board: *See*—
Composite board. Drainage board.
Body construction. P. E. Breneman. 1,676,599; July 10.
Boiler: *See*—
Water-tube boiler.
Boiler bottom. W. J. Burroughes. 1,676,320; July 10.
Book-corner protector. J. Moskowitz. 1,676,741; July 10.
Book end. H. L. Steeb. Des. 75,753; July 10.
Borosilicate glass, Heat-resistant. L. Hochstein. 1,676,331; July 10.
Bottle. G. N. Mas. Des. 75,741; July 10.
Bottle cap and fastener. B. R. Mediati. 1,676,998; July 10.
Bottle or similar container, Perfume. J. Popper. Des. 75,747; July 10.
Bottles and other glass hollow ware, Apparatus for the Manufacture of. G. De Renzis. 1,676,981; July 10.
Bowl, Soup. K. Lickhard. Des. 75,738; July 10.
Box: *See*—
Golf-ball box. Outlet box.
Locomotive fire box.
Bracelet. J. A. Payette. 1,676,706; July 10.
Bracelet clasp. P. W. Jones. 1,676,695; July 10.
Bracket for electric wires, Guard. L. E. Davison. 1,676,944; July 10.
Brake: *See*—
Air-pressure brake.
Brake. J. Eaton. 1,677,024; July 10.
Brake. A. C. Wollensak, A. Jacobs, and P. C. Baldus. 1,676,761; July 10.
Brake mechanism for traction devices of the endless-belt type. B. F. Pagenhart. 1,677,047; July 10.
Bread proofer. J. M. Morrill. 1,677,043; July 10.
Brick display case. W. C. Koch. 1,676,445; July 10.
Bridge, Ferry. P. C. Kelly and H. A. Landis. 1,676,993; July 10.
Brooder. W. E. Straw. 1,676,583; July 10.
Brush. E. F. Astley. 1,676,812; July 10.
Brush construction. A. M. Jensen. 1,676,557; July 10.
Brush, Fountain. J. J. Chéron. 1,676,857; July 10.
Brush machines, Handle-feeding mechanism for. W. S. Elliot and G. E. Lindgren. 1,676,639; July 10.
Brush machines, Shifting device for positioning mechanism for. W. S. Elliot. 1,676,640; July 10.
Brush mounting for suction cleaners. B. B. Jackson. 1,676,782; July 10.
Buffet. C. Holt. Des. 75,731; July 10.
Building front, Sub or removable. H. W. Lawrence. 1,676,498; July 10.
Building material. G. Cohen. 1,677,073; July 10.
Bull wheel. C. B. Pritchard. 1,676,925; July 10.
Bumper, Automobile. H. Scuterud. 1,676,749; July 10.
Burner: *See*—
Blowtorch burner. Gas-range burner.
Gas burner. Oil burner.
Burner. G. F. Moors. 1,676,501; July 10.
Bus or truck, Posting. C. B. Ulrich. 1,676,810; July 10.

Button, Press. V. Puc. 1,676,710; July 10.
Cabinet and locker. F. Albach. 1,676,235; July 10.
Cabinet, Display. M. C. Sapinsley. 1,676,356; July 10.
Cabinet for bottled beverages, Dispensing. L. G. Gray. Des. 75,724; July 10.
Cabinet, Towel. G. A. Steiner. Re17,031; July 10.
Calculating time, Device for. F. C. Meacham. 1,676,912; July 10.
Calling device. H. H. Ide. 1,676,392; July 10.
Camera finder. C. W. Frederick. 1,676,540; July 10.
Camera shutter. M. E. Cuendet. 1,676,529; July 10.
Can: *See*—
Cracker can. Refuse can.
Can. E. A. Reap. 1,676,711; July 10.
Can opener. H. H. Carter. 1,676,520; July 10.
Cap opener. A. Podel. 1,676,649; July 10.
Car, Railway. W. O. McKamey. 1,676,343; July 10.
Carbureters, Arrangement for eliminating the dangers due to back fires in. P. Casati and A. Antoniola. 1,677,019; July 10.
Carbureting device. H. W. Spiller. 1,676,932; July 10.
Carburetion system for internal-combustion engines. S. H. La Plant. 1,676,503; July 10.
Card rack. G. L. Goodwin. 1,676,492; July 10.
Carding machine. J. Schmitt. 1,676,577; July 10.
Carpet. N. W. Williams. Des. 75,758; July 10.
Carriage, Baby. E. J. Adams. 1,677,011; July 10.
Carrier: *See*—
Advertisement carrier.
Sample and pamphlet carrier.
Carton, Egg. W. A. Schurmann. 1,676,872; July 10.
Case: *See*—
Brick display case.
Casing for advertising device. E. O. Little. Des. 75,739; July 10.
Casing, Vending-machine. S. Hinds. Des. 75,729; July 10.
Cathodes, Manufacturing electron-emitting. G. Llebert. 1,676,701; July 10.
Cellulose digesters and the like and means therefor, Charging. P. A. Fresk. 1,676,691; July 10.
Cellulose ester composition. R. L. Kramer. 1,676,612; July 10.
Ceramic products in the course of their production, Supporting and exposing. T. C. and W. O. Prouty. 1,676,799; July 10.
Chain construction. R. S. Kelson. 1,676,863; July 10
Chair and window seat, Combination. P. Baumgarten. 1,676,723; July 10.
Chandelier, Heater-supporting. L. E. Shaw. 1,677,054; July 10.
Chart, Accounting-machine demonstration. J. S. Hexter. 1,677,087; July 10.
Chart, Educational. E. F. Felty. 1,676,328; July 10.
Chimney. W. E. Gilson. 1,676,544; July 10.
Chromium compound of pyrazolone-azo-dyestuff and making same. F. Straub, G. de Montmollin, and M. Schmid. 1,676,581; July 10.
Chuck-operating mechanism. J. E. Baines and J. P. Bosle. 1,676,814; July 10.
Cigarette and match box, Combination. R. A. Kratochwill. 1,677,036; July 10.
Cigarette and match dispenser. R. D. Mills, jr. 1,677,041; July 10.
Cinder-notch stopper. J. Dewar. 1,676,530; July 10.
Circuit-breaker system, Automatic reclosing. A. E. Anderson. 1,676,313–16; July 10.
Circuit-breaker system, Automatic reclosing. A. E. Anderson. 1,676,974; July 10.
Circuits, Vacuum-tube. L. M. Hull. 1,677,090; July 10.
Clamp: *See*—
Work clamp.
Clasp: *See*—
Bracelet clasp.
Cleaner: *See*—
Tray cleaner. Vacuum cleaner.
Cleaning and smoothing films and the like, Device for. J. J. F. Stock. 1,676,299; July 10.
Cleaning apparatus, Fruit-. E. A. White. 1,676,306; July 10.
Cleaning paper stock, Apparatus and process for. C. L. Keller. 1,676,652; July 10.
Cleaning slag pockets, Apparatus for. J. Horne. 1,676,555; July 10.
Cleaning soaking drums. H. W. Fletcher. 1,676,389; July 10.
Clip: *See*—
Bar clip.
Closet tank. J. B. Coxon. Des. 75,721; July 10.
Closure for containers. C. S. Watson. 1,676,846; July 10.
Closure, Removable. G. Breidenbach. 1,676,879; July 10.
Clothesline pole and reel. O. Kanawyer and H. Keener. 1,676,696; July 10.
Clutches, Mechanism for operating winding-drum friction. R. H. Beaumont. 1,676,765; July 10.
Coin-selecting mechanism. C. J. Paulson. 1,676,914; July 10.
Coil winding. I. H. Summers. 1,677,007; July 10.
Coke briquettes for metallurgical uses, Making synthetic carbonaceous. B. E. Crocker. 1,676,729; July 10.
Coloring matters, Manufacture of trisazole. O. Knecht and H. Brütsch. 1,676,562; July 10.
Colors, Applying, blending, and setting. O. S. Marckworth. 1,676,739; July 10.
Comb in combing machines. J. W. Nasmith. 1,676,702; July 10.
Combination hanger. A. F. Ladwig. 1,676,737; July 10.
Comfort cushion. C. Murphy. 1,676,962; July 10.
Commutators, Manufacture of. R. G. Jones. 1,676,442; July 10.
Compass, Beam. F. Schwartz. 1,676,359; July 10.
Compensated meter. A. G. Grier. 1,677,025; July 10
Composite board. J. D. Carter. 1,676,727; July 10.
Compounding ingredients of a chemical paint remover O. L. Fluegel. 1,676,642; July 10.
Compressor and pump. C. H. Lusk. 1,676,789; July 10.
Compressor for internal-combustion engines, Air. A. B. Streeter. 1,677,057; July 10.
Condensation product of urea and formaldehyde and making same. A. Gams and G. Widmer. 1,676,543; July 10.
Condenser. D. W. R. Morgan. 1,676,740; July 10.
Condenser, Electrical. E. S. True. 1,676,417; July 10.
Condenser, Variable. E. G. Danielson. 1,677,020; July 10.
Conductor, Stringing. S. N. Tideman. 1,676,584; July 10.
Conduit for electric conductors. O. A. Frederickson. 1,676,486; July 10.
Container, Display. G. E. Parmenter. 1,676,917; July 10.
Container for treating meats, Openwork. F. Briggs. 1,676,816; July 10.
Container, Metallic. J. A. Jensen. 1,677,100; July 10.
Container, Refrigerant. G. J. Gruendler. 1,676,494; July 10.
Container, Rotary. A. J. Welchsel. 1,676,756; July 10.
Contrapropeller, Removable. O. Overguard. 1,676,409; July 10.
Control for water-gas jets, Automatic. J. H. Taussig. 1,677,102; July 10.
Control mechanism. R. C. Lamond. 1,676,994; July 10.
Controlling switch, Pull-button-. A. B. Weaver. 1,676,971; July 10.
Conveyer. W. J. Bohn. 1,676,978; July 10.
Conveyer. J. D. Crummey, W. J. Austin, and F. H. Lewis. 1,676,481; July 10.
Conveyer for corn harvesters. A. Olson. 1,676,916; July 10.
Conveying pulverized material, Apparatus for. A. G. Kinyon. 1,677,119; July 10.
Cooking and heating appliance. W. R. Dick. 1,676,603; July 10.
Cooking and heating device, Electric. O. Schaffer. 1,676,669; July 10.
Cooler: *See*—
Air cooler.
Cooler, Beverage. F. L. Look. Des. 75,740; July 10.
Cooling apparatus. R. W. Mumford. 1,676,277; July 10.
Cooling internal-combustion engines, Process of and apparatus for. W. W. Muir. 1,676,961; July 10.
Core-drill bit. J. R. Chamberlin. 1,676,887; July 10.
Corn sheller. F. Osmera. 1,676,573; July 10.
Corner piece for buildings. D. R. Stuart. 1,676,582; July 10.
Counting mechanism. E. G. Beveridge. 1,676,939; July 10.
Coupling: *See*—
Locking coupling. Shaft coupling.
Couplings and the like, Resilient intermediate member for jointed. H. Kattwinkel. 1,676,333; July 10.
Cover back and hinge. G. Mangialetti. 1,676,865; July 10.
Cover for infants' toilets, Seat. G. M. Berentsen. 1,676,243; July 10.
Cracker can, Interchangeable-cover. A. Pittelkow. 1,676,621; July 10.
Cradle. P. W. Anderson. 1,676,420; July 10.
Crane and shovel convertible operating mechanism. L. A. Russell. 1,676,353; July 10.
Cuff for men's shirts, blouses, and the like, Double-sided. J. Lanz. 1,676,397; July 10.
Curtain and portière rod. J. H. Boye. Des. 75,716–18; July 10.
Curtain, Sand-blast. R. Ruemelin. 1,676,576; July 10.
Curtains, Device for porch. N. M. Faulds. 1,676,327; July 10.
Curvilinear fabric. J. V. Moore. 1,677,042; July 10.
Cushion: *See*—
Comfort cushion.
Cutter: *See*—
Milling cutter. Pipe cutter.
Paraffin cutter.
Cutter for ice cream and similar products. R. H. Arrowood. 1,677,115; July 10.
Cutting machine. H. L. Glidden. 1,676,260; July 10.
Cylinder, Engine. G. D. Angle. 1,676,976; July 10.
Cylinder lubricator, Air-compression-. G. F. Turner. 1,676,586; July 10.
Dashpot. G. C. St. John. 1,676,674; July 10.
Defibrating machine. J. Dufour. 1,677,076; July 10.
Denominating machine. J. Harrison. 1,676,731; July 10.
Dental flask. M. L. Axelrod. 1,676,677; July 10.
Derrick. J. D. McEwen. 1,676,271-2; July 10.
Derrick or tower construction, Fabricated-steel. C. B. Foster. 1,676,539; July 10.

Designs upon stones, Producing. G. Di Bona and T. Jellow. 1,676,637; July 10.
Detector: *See*—
Metal detector.
Device for underground prospecting. S. Herr. 1,676,779; July 10.
Diaphragm control for projection printers. J. G. Capstaff. 1,676,600; July 10.
Dirigibly-mounted light. C. Sklarek. 1,676,364; July 10.
Dish or similar article. A. C. Kintz. Des. 75,733–5; July 10.
Dishwasher and soap holder, Combined. F. M. King, sr. 1,676,905; July 10.
Dispenser, Liquid. J. W. Bloodhart. 1,676,851; July 10.
Dispensing apparatus. J. L. Morris. 1,676,833; July 10.
Dispensing apparatus, Lubricating-. O. U. Zerk. 1,676,626; July 10.
Dispensing closure for containers. M. K. O'Leary. 1,676,348; July 10.
Dispensing device. C. R. Schott. 1,676,358; July 10.
Display and vending apparatus. E. Brunhoff. 1,676,682; July 10.
Distillation. A. E. Becker. 1,676,724; July 10.
Distillation of hydrocarbon oils, Continuous. R. D. Hunneman. 1,676,611; July 10.
Distillation residues, Reclaiming. S. P. Coleman and W. S. Hughes. 1,676,687; July 10.
Distilling hydrocarbon oils. R. D. Hunneman. 1,676,609; July 10.
Distilling hydrocarbon oils. R. E. Wilson. 1,676,610; July 10.
Distribution system. A. H. Mittag. 1,676,990; July 10.
Divider or compass. E. L. Rankin. 1,676,964; July 10.
Dockage tester. C. W. Carter. 1,676,519; July 10.
Dolls and other toys, Sounding device for. A. Konoff. 1,676,906; July 10.
Door. E. J. Harditke. 1,676,496; July 10.
Door and jamb construction. H. B. Stein. 1,677,058; July 10.
Doorcheck. G. A. Powell. 1,676,284; July 10.
Door, Sliding. C. C. McGinnis. 1,676,500; July 10.
Door structure, Car-. A. and C. Christiansen. 1,676,426; July 10.
Door, Swinging. W. S. Graff-Baker. 1,676,375; July 10.
Double lock, Permutation. J. Konkus. 1,676,394; July 10.
Drafting table, Universal. M. Reid. 1,676,746; July 10.
Drainage board, Sink. F. S. Corrigan. 1,676,771; July 10.
Drawer mount. C. Bergmann. 1,676,991–2; July 10.
Dredger-frame construction. J. E. Funk. 1,676,645; July 10.
Drier control. A. W. Lissauer. 1,676,786; July 10.
Drilling machine. A. E. Robinson and A. M. Sosa. 1,676,461; July 10.
Driving mechanism. R. Chilton. 1,676,322; July 10.
Dry-cell battery. L. V. Ellis. 1,676,945; July 10.
Drying lumber, Apparatus for. H. L. Henderson. 1,676,552; July 10.
Dyes, Ortho-hydroxyazo. O. Kaltwasser, H. Oehrn, and H. Kirchhoff. 1,676,697; July 10.
Dyestuff and making the same, Hydroxy-naphthalene-arylsulphoester azo. W. Neelmeier. 1,676,407; July 10.
Dyestuff and making the same, Hydroxy-naphthalene-arylsulphoester azo. W. Neelmeier. 1,676,458; July 10.
Edible product and producing same. H. L. Heft, M. B. Van Arsdale, and D. E. Shank. 1,676,899; July 10.
Electric control device. G. F. Schwartz. 1,676,671; July 10.
Electric discharge device. D. M. Moore. 1,677,000; July 10.
Electric machines, Magnetic shield for dynamo-. R. Pohl. 1,677,004; July 10.
Electric plug, Three-way. W. Ile. 1,676,439; July 10.
Electric selecting apparatus. C. L. and H. L. Krum. 1,676,447; July 10.
Electric switch. T. C. Forbes. 1,676,257; July 10.
Electric switch. W. R. Walker. 1,676,752; July 10.
Electrical amplifier. G. W. Pickard. 1,676,744; July 10.
Electrical apparatus. L. A. M. Phelan. 1,676,922; July 10.
Electrical apparatus. L. A. M. Phelan and C. Hotchkiss. 1,676,921; July 10.
Electrical apparatus. L. A. M. Phelan and C. Hotchkiss. 1,676,923; July10.
Electrical contactor. P. M. Tebbs. 1,677,059; July 10.
Electrical reactance, and method and apparatus. G. W. Pickard. 1,676,745; July 10.
Electrical switch. L. A. M. Phelan and C. Hotchkiss. 1,676,920; July 10.
Electrical switching mechanism. A. J. Evers. 1,676,433; July 10.
Electrode, Resistance welding. G. A. Lutz. 1,676,656; July 10.
Electrotype plates, Backing. H. M. Blaetz. 1,676,628; July 10.
Electrotyping, Plate and preparation of plate for. W. J. Maginnis. 1,676,658; July 10.
Empennage and plane arrangement. W. H. Barling. 1,677,069; July 10.
Engine: *See*—
Gas engine. Internal-combustion engine.
Engine of the sleeve-valve type, Sleeve of the. C. Schaeffer. 1,677,051; July 10.
Engines, Fuel feed system for internal-combustion. L. E. Van Hise. 1,676,751; July 10.
Engines, Scoop attachment for traction. A. Laurie. Re17,025; July 10.
Envelope, Shirt. A. Ratcliff. 1,676,286; July 10.
Enzymes for use in the manufacture of bread, Production of. H. A. Kohman, E. Irvin, and E. S. Stateler. 1,676,446; July 10.
Equalizing means for multiple-collar bearings. J. F. Johnson. 1,677,093; July 10.
Exhaust machine. J. M. van der Pool. 1,676,302; July 10.
Exploring subterranean strata, Method and apparatus for. T. Zuschlag. 1,676,847; July 10.
Eyeglasses. C. W. Cutler. 1,676,819; July 10.
Eyelets, Device for setting invisible. F. S. Gilmes. 1,676,647; July 10.
Fabric: *See*—
Curvilinear fabric. Waterproof fabric.
Upholstery fabric.
Fabric, Pile. H. P. Dick. Des. 75,722; July 10.
Fabrics, Manufacture of colored pile. G. E. Shipway. 1,676,931; July 10.
Fan, Oscillating. H. R. Stuart. 1,676,467; July 10.
Fastener. F. S. Carr. 1,676,382; July 10.
Fastener. F. S. Carr. 1,677,097; July 10.
Fastener and glass retainer, Closure. T. J. Corcoran. 1,677,074; July 10.
Fastener, Door. J. M. Knight. 1,676,335; July 10.
Fastener, Door. J. G. Thorne. 1,677,060; July 10.
Fastener, Separable. A. L. Breitenstein. 1,676,630; July 10.
Fastener, Separable. F. S. Carr. 1,676,383; July 10.
Fastener, Separable. C. Krans. 1,676,396; July 10.
Fastener, Wedge closure. T. J. Anstey. 1,676,515; July 10.
Fastening for boxes or cases containing rotary sharpening apparatus for razors and edge tools. J. A. D. Watt. 1,677,064; July 10.
Faucet for laundry tubs and sinks, Combination. P. R. Richards. 1,676,800; July 10.
Feed mechanism, Pneumatic. S. Halvorsen. 1,676,897; July 10.
Feeding mechanism. H. F. Albright, jr. 1,676,606; July 10.
Feeding mechanism. C. D. Hart. 1,676,605; July 10.
Feeding mechanism. L. F. Lamplough. 1,676,607; July 10.
Feeding mechanism. R. C. Simmons. 1,676,293; July 10.
Feedwater, Delivering preheated. J. Stumpf. Re17,032; July 10.
Fence post, Concrete. W. Bensinger. 1,676,679; July 10.
Fiber board for containers and the like. D. G. Magill. 1,676,617; July 10.
Fibrous composition, Method of making articles from a. W. C. O'Brien. 1,676,798; July 10.
Filing post for loose-leaf ledgers and like binders. H. B. Stone. 1,676,968; July 10.
Filler, Ice-cream-carton. B. L. Huntley. 1,676,952; July 10.
Film-winding machine. J. G. Jones. 1,676,558; July 10.
Filter, Pressure and vacuum. G. J. Lipscomb. 1,676,268; July 10.
Filtering and softening water, Apparatus for. R. C. Dunkelberg. 1,676,891; July 10.
Filtering screen, Fuel-. H. Ford. 1,677,118; July 10.
Finial. H. A. Best. 1,676,422; July 10.
Fireplace. J. B. Ehrlich. 1,676,484; July 10.
Fireplace attachment. L. F. Eisele. 1,676,893; July 10.
Fishing reel, Level-winding. R. B. Bennett. 1,676,678; July 10.
Fitting machine, Heel-seat-. W. C. Stewart. 1,676,297; July 10.
Flash light. E. R. Barany. 1,676,849; July 10.
Flask: *See*—
Dental flask.
Flexibility of the joints of the hands, Apparatus for promoting the. H. Ostrovsky. 1,676,664; July 10.
Flooring, Metal. C. M. Mugler. 1,676,570; July 10.
Frame: *See*—
Vehicle frame.
Fruit-cleaning machine. F. E. Smallidge. 1,676,714; July 10.
Fruit-grading machine. F. F. Leweke. 1,677,037; July 10.
Fuel burner, Pulverized-. W. R. Wood. 1,676,511; July 10.
Fuel burners, Controlling means for multiple-. E. A. Basel. 1,676,764; July 10.
Fuel control for liquid-fuel burners. C. W. Stancliffe. 1,676,933; July 10.
Fuel, Gaseous. J. R. Rose. 1,676,871; July 10.
Funnel. G. G. Hilford. 1,676,986; July 10.
Furnace: *See*—
Gas furnace. Induction furnace.
High-frequency furnace.
Furnace arches, Repairing means for. O. E. Olson and L. Cooper. 1,677,002; July 10.
Furnace for heating metal sheets and plates. R. W. Stuler. 1,676,590; July 10.
Furnace-wall constructions. B. Brodio. 1,676,246; July 10.
Furniture, Convertible. L. P. Armstrong. 1,676,514; July 10.

Game apparatus. A. L. Walton. 1,676,755; July 10.
Game, Card. L. Zimmermann. 1,677,010; July 10.
Game or puzzle. T. J. Scanlan. 1,676,505; July 10.
Garden roller. T. Cantu. 1,676,941; July 10.
Garment hanger. D. R. Trevino. 1,676,936; July 10.
Garment press. P. N. Braun. 1,676,423; July 10.
Gas burner. M. Jones. 1,676,953; July 10.
Gas burner. C. A. Lausen. 1,676,564; July 10.
Gas burner, Circulating. J. M. Axtell and F. G. von Hofen. 1,676,472; July 10.
Gas engine, Two-cycle. H. E. Allen. 1,676,512; July 10.
Gas furnace. E. L. Payne. 1,676,665; July 10.
Gas heater. W. L. Sharp. Des. 75,752; July 10.
Gas meter. A. R. Huettig. 1,676,651; July 10.
Gas-range burner. P. S. Harper. 1,676,898; July 10.
Gate: *See*—
Railroad gate.
Gauge: *See*—
Micrometer gauge. Testing gauge.
Gauge with a precision indicator for testing the flank diameter of external threads. M. Bartholdy. 1,676,721; July 10.
Gauging instrument. F. W. Stalker. 1,676,673; July 10.
Gauging machine. P. Wallin. 1,676,879; July 10.
Gear, Locomotive valve. J. J. Jones. 1,676,265; July 10.
Gear, Variable-speed. W. J. Gee. 1,676,859; July 10.
Gearing. D. F. Asbury. 1,676,421; July 10.
Gearing, Change-speed. P. O. Rowlands. 1,676,802; July 10.
Gearing, Stageless change-speed. E. Stöckemann. 1,676,367; July 10.
Gears, Method of and machine for producing. E. Wildhaber. 1,676,371; July 10.
Gears, Method of and machine for producing. E. Wildhaber. 1,676,419; July 10.
Generator: *See*—
Thermoelectric generator.
Glare shield. P. J. Groenenstein. 1,676,896; July 10.
Glass: *See*—
Borosilicate glass.
Glass, Making corrugated wire. W. Cox and A. Shuman. 1,676,773; July 10.
Glass, Method and apparatus for manufacturing fire-polished sheet. C. J. Jordan. 1,677,095; July 10.
Glass, Process and apparatus for making sheet. W. Cox and A. Shuman. 1,676,772; July 10.
Goggles. S. H. Hopewell. 1,677,089; July 10.
Goggles. J. A. Wilson. 1,676,760; July 10.
Golf bag. J. S. White. 1,676,592; July 10.
Golf-ball box. J. G. Anderson and R. H. Waldo. 1,676,975; July 10.
Golf-ball center. P. S. Shoaff. 1,676,841; July 10.
Golf club. W. E. Harness. 1,677,099; July 10.
Golf club. N. D. Mattison. 1,676,270; July 10.
Golf clubs, Adjustable head for. S. L. Boles. 1,676,518; July 10.
Golf game apparatus. C. W. Scheck. 1,676,804; July 10.
Governor. L. B. Jones and E. H. Werzner. 1,676,902; July 10.
Grader, Road. H. R. and F. D. Wilson. 1,676,938; July 10.
Gate for dump pits. A. P. Winter. 1,676,307; July 10.
Grate, Furnace. E. B. Priebe. 1,676,349; July 10.
Grease cup. E. Conrad. 1,676,523; July 10.
Grinder, Valve. W. E. Duthie. 1,676,483; July 10.
Grinding apparatus. C. H. Norton. 1,676,620; July 10.
Grinding machine. B. M. W. Hanson. 1,676,643; July 10.
Grids, Process and apparatus for forming. J. E. Smith. 1,676,366; July 10.
Grouping arrangement for communication systems, Frequency. R. A. Heising. 1,676,614; July 10.
Grouting the walls of an oil well, Method of and apparatus for. J. O. Lewis. 1,676,785; July 10.
Guard, Crossrail. W. F. Zimmermann. 1,676,311; July 10.
Guard for stick pins. F. A. Ballou, jr., and E. Morehouse. 1,676,376; July 10.
Gunsight. M. Drieghe. 1,676,533; July 10.
Hair winder. C. Mack. 1,676,402; July 10.
Hand iron. J. Wilson-Haffenden. 1,677,065; July 10.
Handwheel, Locking. A. W. Scott and H. D. Geyer. 1,676,465; July 10.
Hanger: *See*—
Combination hanger. Transfer filler hanger.
Garment hanger.
Harvesting machine for soy beans and the like. F. Carter. 1,676,521; July 10.
Hat facing, Fit-easy. I. E. Risley. 1,676,504; July 10.
Heading machines, Automatic feed mechanism for. W. Lowery. 1,676,567; July 10.
Headlamp-adjusting chart. T. W. Frech. 1,676,028; July 10.
Headlight. C. N. Klaecker. 1,676,393; July 10.
Headlight. W. D'A. Ryan. 1,676,463–4; July 10.
Headlight, Vehicle. J. F. Flannery. 1,676,690; July 10.
Heat exchanger. A. W. Lissauer. 1,676,787; July 10.
Heater: *See*—
Water heater.
Heater. G. E. Starkweather. 1,677,006; July 10.
Heating and cooking apparatus, Electrical. J. W. J. Kaffer. 1,677,032; July 10.
Heating means, High-frequency filament-. W. E. Danley. 1,677,021; July 10.
Heel. J. B. Hadaway. 1,676,262; July 10.
Heel-attaching mechanism. J. A. Kelly. 1,676,904; July 10.
Heel, Rubber. E. Hoffman. 1,676,332; July 10.
Heel, Shoe. B. R. Ryan. 1,676,928; July 10.
High-frequency furnace. H. C. Rentschler and J. W. Marden. 1,676,926; July 10.
Hinge. J. Friedman. 1,676,541; July 10.
Hinge. A. N. Walstad. 1,676,589; July 10.
Hinge for water-closet seats and covers. W. J. Hess. 1,676,900; July 10.
Hobbing machine. C. H. Schurr. 1,676,873; July 10.
Hoist controller. A. E. Johnson. 1,677,108; July 10.
Hoisting apparatus. J. Newmann. 1,676,344; July 10.
Hoisting machine. F. J. Lederer. 1,676,449; July 10.
Holder, Compound condiment. M. Costello. 1,676,635; July 10.
Holder for golf courses, Flagpole. G. E. Kannemann. 1,676,954; July 10.
Holder, Lamp. G. S. Clark. 1,677,072; July 10.
Holder, Pencil. F. L. Morgan. Des. 75,744–5; July 10.
Holder, Roll-material. E. D. Casteriine. 1,676,854; July 10.
Holder, Sales-check. E. K. Bottle. 1,676,726; July 10.
Holder, Toothpick. F. Rings. 1,676,747; July 10.
Holder, Towel. W. N. Proctor. 1,677,049; July 10.
Hook: *See*—
Watch-bracelet end hook.
Horn, Electric. D. A. McConnell. 1,676,455; July 10.
Horse, Rocking and galloping. N. Smirnoff. 1,676,365; July 10.
Hose protector. D. D. Fortune. 1,677,077; July 10.
Hot plate, Nonwarping. L. Reichold. 1,677,005; July 10.
Housing construction. R. B. Benjamin. 1,676,239; July 10.
Huller: *See*—
Oat huller.
Humidifier for cigar cases. J. B. Darguvel. 1,676,943; July 10.
Humidifying apparatus. F. A. and W. Anetsberger. 1,676,763; July 10.
Humidor display lid. E. Brunhoff. 1,676,683; July 10.
Husks or socket housing. V. R. Despard. 1,676,254; July 10.
Hydraulic construction. G. W. Bungay. 1,676,249; July 10.
Hydrocarbon-burner system. J. S. String. 1,676,877; July 10.
Hydrocarbon motor. J. G. Vincent. 1,676,418; July 10.
Hydrocarbons from carbonaceous material, Recovering light. M. J. Trumble. 1,676,675; July 10.
Identifying individuals. W. M. Hammond. 1,676,495; July 10.
Ignition device for smudge pots. J. A. Ulmer. 1,676,368; July 10.
Ignition for 2-cylinder engines, Dual. E. V. Rippingille. 1,676,503; July 10.
Impregnating machine and process. L. Seidell and G. B. Jack, jr. 1,676,363; July 10.
Indicating device, Liquid-quantity-. E. V., jr., and N. Dittlinger. 1,676,255; July 10.
Indicator: *See*—
Speed indicator.
Indian club. R. E. Dwyer. 1,676,689; July 10.
Induction furnace. R. Gross. 1,676,545; July 10.
Insole. P. Saperston. 1,676,355; July 10.
Internal-combustion engine. M. F. Hill. 1,676,264; July 10.
Internal-combustion engine. L. E. Van Hise. 1,676,811; July 10.
Internal-combustion engine. J. G. Vincent. 1,676,369; July 10.
Internal-combustion engines, Method of and apparatus for preventing knocking in. F. A. Howard and T. R. Parker. 1,676,827–8; July 10.
Iron: *See*—
Hand iron.
Jigger. H. Grassey. 1,676,261; July 10.
Joint: *See*—
Universal joint.
Joints, Apparatus for packing. R. E. Chapman. 1,676,425; July 10.
Juice extractor. T. F. Coopey. Des. 75,720; July 10.
Kit for drawing instruments, Auxiliary beam-compass. F. Schwartz. 1,676,860; July 10.
Knife, Paring. E. W. Lacoss. 1,676,699; July 10.
Ladder. R. F. Schulske. 1,676,915; July 10.
Ladder support. J. W. Morris. 1,676,618; July 10.
Ladle and strainer, Combination. J. Rudin. 1,677,120; July 10.
Lamp. C. D. Ryder. 1,676,712; July 10.
Lamp. C. E. Schmunk. 1,676,670; July 10.
Lamp attachment, Portable. D. P. Stergianopulos. 1,676,934; July 10.
Lamp, Automotive head. W. B. Churcher. 1,676,769; July 10.
Lamp, Electric. R. D. Malley. 1,676,790; July 10.
Lamp, Electric table. J. P. Weiss. Des. 75,755; July 10.
Lamp, Electric vapor. R. D. Malley. 1,676,793; July 10.

Lamp, Incandescent electric. A. Sved. 1,676,300; July 10.
Lamp lock, Electric-. S. A. Clemetson and O. H. Rasmussen. 1,676,323; July 10.
Lamp lock, Incandescent-. J. Cooke. 1,676,728; July 10.
Lamp, Reading. H. M. Peters. Des. 75,746; July 10.
Lamp, Vapor electric. R. D. Malley. 1,676,792; July 10.
Lamps, Securing device for miners'. A. L. Welch. 1,676,972; July 10.
Lantern. A. H. Handlan. 1,676,861; July 10.
Latch. R. G. Moore and A. Claud-Mantle. 1,676,867; July 10.
Latch, Cupboard. A. F. Winters. 1,676,593; July 10.
Leaks, especially in the bottom and side walls of ships' hulls, Apparatus for stopping. B. H. Körner. 1,676,395; July 10.
Lens-cutting machine. E. M. Long. 1,676,566; July 10.
Light: *See*—
Dirigibly-mounted light. Flash light.
Light-treatment process. G. Sperti, R. J. Norris, R. B. Withrow, and H. Schneider. 1,676,579; July 10.
Lighting ships' lifeboats and the like. J. G. Blair. 1,676,977; July 10.
Limiting and volumetric meter, Demand. J. F. Kitchen. 1,676,444; July 10.
Lining for rubber boots and manufacturing. A. A. Glidden and F. R. McKenzie. 1,676,329; July 10.
Lining pipes, Method of and apparatus for. D. T. Beatty. 1,676,815; July 10.
Link for cross chains of antiskid chains, Connecting. R. A. Seager. 1,676,966; July 10.
Liquid-controlling device. L. W. Browne. 1,677,096; July 10.
Liquid-flow switch. W. R. Walker. 1,676,753; July 10.
Liquid from solid material, Device for separating. S. V. C. Plate. 1,676,459; July 10.
Liquid-level-indicating means. G. J. Dunbaugh, Jr. 1,676,534; July 10.
Lock: *See*—
Double lock. Multiple lock.
Lamp lock. Rim lock.
Lock. C. W. Le Noue. 1,676,450; July 10.
Lock and latch, Combined. J. Arigi. 1,677,012; July 10.
Locking coupling. T. B. Tiefenbacher. 1,676,585; July 10.
Locomotive booster apparatus. H. S. Vincent. 1,676,509; July 10.
Locomotive firebox. C. G. Hawley. 1,676,732; July 10.
Locomotive front end. H. B. Oatley. 1,676,347; July 10.
Locomotive, Steam. C. R. Brooks and C. A. Brandt. 1,676,247; July 10.
Loom, Feeler. J. Northrop. 1,676,913; July 10.
Loom reed. I. Andrews. 1,676,513; July 10.
Looms, Stop motion for. P. C. Hering. 1,677,085; July 10.
Looms, Thread-control attachment for. A. C. P. Russen. 1,676,803; July 10.
Loop for garments, etc., Supporting. R. E. Garrett. 1,677,078; July 10.
Loop, Garment. J. M. Clark. 1,676,770; July 10.
Low-tire-pressure signal. J. B. Cox. 1,676,526; July 10.
Lubricating apparatus. M. F. Carr. 1,676,424; July 10.
Lubricating apparatus. H. J. Murphy. 1,676,457; July 10.
Lubricating device for axle journals. J. Moreau. 1,677,001; July 10.
Lubricating system. E. W. Davis. 1,676,386; July 10.
Lubricator. *See*—
Cylinder lubricator.
Lubricator. F. C. Blanchard. 1,676,473; July 10.
Lumber carriers, Load binder for. J. S. Eastham. 1,676,638; July 10.
Lumber, Method and apparatus for unstacking. J. M. and J. M. Leaver, jr. 1,676,937; July 10.
Machine and method for drying macaroni. A. E. Broughton. 1,676,474; July 10.
Machine for cutting off and preparing stock strips. T. A. Beaney. 1,676,883; July 10.
Machine for finishing book covers by inlaid, lettering, or ornamenting. H. Dunn. 1,676,892; July 10.
Machine for forming, bending, folding, and shaping heavy metal sheets. C. G. Hawley. 1,676,733; July 10.
Machine for stapling chick boxes. C. Van Zyl. 1,676,718; July 10.
Machine for the sintering of ore and the like. P. Anderson. 1,676,720; July 10.
Machinery, Glassworking. R. D. Malley and W. J. Winninghoff. 1,676,795; July 10.
Machinery, Glass-working. G. A. Millar. 1,676,796; July 10.
Magnet wheel. J. Geschke. 1,677,030; July 10.
Magnetizable objects, Method of and apparatus for testing. C. W. Burrows. 1,676,632; July 10.
Mandrel. W. S. Doll. 1,676,325; July 10.
Mandrels, Tapered plug for circular. J. R. Hunter. 1,676,829; July 10.
Manifold for internal-combustion engines, Intake. W. E. Kemp. 1,676,955; July 10.
Maps and plans from two terrestial or aerial photographs, Apparatus for automatically drawing. G. J. Poivilliers. 1,676,708; July 10.
Marker, Book. A. Falken. 1,676,644; July 10.
Marker for trees, plants, and flowers. J. C. Richard. 1,676,927; July 10.
Measuring machine, Cloth-. A. Vanderveld. 1,676,587; July 10.
Measuring machine, Unit-. C. N. Bergmann. 1,676,377; July 10.
Measuring machines, Cover-placing mechanism for unit-. C. N. Bergmann, E. Z. Taylor, and C. Taylor. 1,676,378; July 10.
Measuring weir. C. W. Cheatham. 1,676,855; July 10.
Meats, Preparing smoked joint. A. W. Cushman. 1,676,730; July 10.
Mechanical movement. S. R. Jackson. 1,676,441; July 10.
Mechanical movement. R. E. Schley. 1,676,506; July 10.
Medicine, Topical. A. A. Hoopman. 1,676,554; July 10.
Mercury switch. J. P. O'Shea. 1,676,408; July 10.
Mercury switch. W. R. Walker. 1,676,754; July 10.
Metal hair tube. D. J. Bolduc. 1,676,681; July 10.
Metal machine, Expanded-. R. G. Birkholz. 1,676,517; July 10.
Metals in continuous cold rolling, Apparatus for the annealing of. L. Cammen. 1,676,685; July 10.
Meter: *See*—
Compensated meter. Limiting and volumetric meter.
Gas meter.
Micrometer gauge. W. L. Bryant. 1,676,248; July 10.
Milking-machine releaser. J. Hopkirk and G. W. Gane. 1,676,693; July 10.
Milling cutter. O. von Eberhard. 1,676,719; July 10.
Mining machine. C. E. Davis. 1,676,428–9; July 10.
Mixing device. J. H. Baker. 1,676,237; July 10.
Mixing device, Fuel-. J. P. Malone. 1,676,958; July 10.
Molding machines, Jolt mechanism for. W. H. Nicholls. 1,676,662; July 10.
Molds for printing plates, Forming. L. W. Claybourn. 1,676,802; July 10.
Mop. T. Hill. 1,676,497; July 10.
Mop. W. D. Whitaker. 1,676,880; July 10.
Motor: *See*—
Air-craft motor. Spring motor.
Hydrocarbon motor.
Moving freight-car doors, Device for. G. A. Plunkett. 1,676,502; July 10.
Multiple lock. E. R. Turner. 1,676,623; July 10.
Musical instrument, Record-controlled. T. F. Cheek. 1,676,633; July 10.
Musical instruments, Control-carrying slide for self-playing. E. A. Huseby. 1,676,780; July 10.
Nail, Clamp. C. C. Jensen. 1,677,092; July 10.
Needle, Knitting. ... M. Frazier. 1,676,947; July 10.
Nipple applicator. F. A. Armstrong. 1,676,236; July 10.
Nozzle for the production of artificial filaments. L. A. Levy. 1,676,831; July 10.
Nozzle, Sanitary syringe. S. C. Wood. 1,676,308; July 10.
Nut blanks, Threading. O. H. de Lapotterie. 1,676,482; July 10.
Oat huller. R. Stanley. 1,677,111; July 10.
Oil burner. H. A. Atwater. 1,676,813; July 10.
Oil burner. W. F. Miller. 1,676,274; July 10.
Oil burner, Furnace. C. Anderson. 1,676,471; July 10.
Oil-dispensing vessel, Dust-proof. W. H. Peaden. 1,676,411; July 10.
Oil, Process and apparatus for cracking. R. T. Pollock. 1,676,924; July 10.
Oils, Treating. F. A. Howard. 1,676,826; July 10.
Cameras, Optical unit for. O. Wittel. 1,676,595; July 10.
Organ-pipe construction. G. Cesar. 1,676,942; July 10.
Outlet box. H. M. Stieglitz. 1,676,298; July 10.
Oven, Coke. T. G. Kus. 1,676,736; July 10.
Oven, Constant-temperature. W. H. Stannard. 1,676,876; July 10.
Overflow alarm. O. La Vallée and O. Lemelin. 1,676,565; July 10.
Packing doors, frames, and the like. H. B. Walter. 1,676,304; July 10.
Packing material and gasket made therefrom. F. L. Dieterich. 1,676,432; July 10.
Packing or filling body. F. Lilge. 1,676,451; July 10.
Panel for metal work, Decorative. O. B. Bach. Des. 75,709; July 10.
Paper making. R. V. Weldon. 1,676,305; July 10.
Paper-making machine. W. A. Lorens. 1,676,655; July 10.
Paper, Process and mechanism for producing stretchable. H. G. Widmer. 1,676,759; July 10.
Paper-stock refining. H. Liebeck. 1,676,653; July 10.
Paraffin cutter. M. L. Reed and H. E. Bulla. 1,677,050; July 10.
Pedal-actuating device. H. Christenson. 1,676,686; July 10.
Pedestal mounting. A. Vanderveld. 1,676,508; July 10.
Pencils, Clutch. E. Caldwell. 1,676,250; July 10.
Percolator, Coffee. H. H. Schott. Des. 75,749; July 10.
Percolator, Coffee. H. H. Schott. Des. 75,751; July 10.
Petroleum, Process and apparatus for cracking. L. J. Gary. 1,676,895; July 10.
Petroleum products, Pyrogenesis of. F. A. Howard. 1,676,694; July 10.
Photograph and making the same. S. E. Sheppard. 1,676,580; July 10.
Photographic mounts, Package for. H. L. Batty. 1,676,238; July 10.

Pianos, Tracker-tube support for player. E. A. Huseby. 1,676,781; July 10.
Picker stick. J. A. Hinrichs. 1,677,088; July 10.
Picture block, Interchangeable panoramic. G. W. Eschenbach. 1,676,641; July 10.
Picture mechanism, Motion-. O. Wittel. 1,676,594; July 10.
Picture projector, Motion-. E. C. Fritts. 1,676,542; July 10.
Pilaster, Extensible. S. Lowy. 1,676,616; July 10.
Pin or the like, Lapel. J. R. Colgan. Des. 75,719; July 10.
Pipe cutter, Automatic drill-. K. F. Mitchell. 1,676,569; July 10.
Pipe strap, Leader-. D. J. Finucane. 1,676,485; July 10.
Pipe wrench. N. Spanovic. 1,676,507; July 10.
Piston. T. J. Levey. 1,676,339; July 10.
Plant holder, Carnation. F. E. Kruse. 1,676,337; July 10.
Plant support. N. Waterman. 1,676,468; July 10.
Plate or similar article. H. Rampfel. Des. 75,748; July 10.
Plate or similar article. W. S. Woodman. Des. 75,759; July 10.
Plate, Pie. P. C. Engel. Des. 75,723; July 10.
Plates for locks, Striker. J. E. Haifferty. 1,676,390; July 10.
Pneumatic spring, Adjustable. S. Quisling. 1,676,350; July 10.
Pole butt. J. R. Kearney. 1,676,266; July 10.
Post: *See*—
Fence post.
Powder-dispensing device. R. R. Root. 1,676,462; July 10.
Power plant. G. C. Taylor. 1,676,935; July 10.
Press: *See*—
Garment press.
Press. L. E. Dougherty. 1,676,821; July 10.
Pressing machines, Actuating mechanism for. A. D. Maury. 1,676,866; July 10.
Pressing together the edges of tubes, Apparatus for. I. A. Semenov. 1,676,361; July 10.
Pressure-relief apparatus. H. G. Mobley. 1,676,999; July 10.
Printing or embossing machine. S. O'Hara. 1,676,836; July 10.
Printing presses, Collecting, folding, and delivery mechanism for. H. M. Barber. 1,676,882; July 10.
Process trimmer. G. A. Ostermeier. 1,676,574; July 10.
Projectiles on aircraft, Device for releasing. R. Alkan and G. Lesourd. 1,676,762; July 10
Propelling or lifting device with automatic correction. E. Oehmichen. 1,676,372; July 10.
Puller: *See*—
Valve puller.
Pulley structure. J. S. Reid. 1,676,460; July 10.
Pump. G. A. Humason and W. L. Childs. 1,676,391; July 10.
Pump, Air. J. A. Crimp. 1,676,527; July 10.
Pump, Automatic receiver. H. G. Shortt. 1,676,875; July 10.
Pump, Centrifugal. C. J. Fechheimer. 1,676,946; July 10.
Pump-controlling mechanism. R. Conrader. 1,676,818; July 10.
Pump, Rotary. R. W. King. 1,676,783; July 10.
Pumping apparatus, Liquid-. P. R. Finch. 1,676,822; July 10.
Push-button apparatus for multiple-unit door-control systems. A. F. Paul. 1,676,743; July 10.
Quinoline-4-carboxylic acids, Production of. A. Hänssler. 1,676,862; July 10.
Rack: *See*—
Card rack.
Radiator, Electric. T. H. McQuinn. 1,676,834; July 10.
Radio and phonographic recording and reproducing system, Combined. P. Goldsborough. 1,676,491; July 10.
Radiocommunication, System of. J. O. Mauborgne and G. Hill. 1,676,464; July 10.
Radioreceiver, Multiple-channel. O. B. Blackwell and D. K. Martin. 1,676,244; July 10.
Radioreceiver, Multiple-channel. H. B. Coxhead. 1,676,252; July 10.
Radiosignaling. S. Ruben. 1,676,748; July 10.
Radio signaling system. H. A. Affel. 1,676,240; July 10.
Radio tuning dial. L. E. Dorsey. 1,677,075; July 10.
Radius bar for locomotives, Truck. C. K. Getchell. 1,676,259; July 10.
Rail-holding tie. C. G. Gulbrand. 1,676,547; July 10.
Railroad gate, Automatic. Z. W. Molnar. 1,676,960; July 10.
Railroad-tie spacer. G. F. Dicks. 1,676,982; July 10.
Railway booster. M. H. Roberts. 1,676,575; July 10.
Range. H. F. Zarth. Des. 75,760; July 10.
Receptacle, Paper. C. H. McGlehan. 1,677,040; July 10.
Receptacle, Safety-deposit. E. S. Peer. 1,676,707; July 10.
Recorder, C. H. Au. 1,676,848; July 10.
Recording apparatus. A. N. E. Boos. 1,676,619; July 10.
Reel: *See*—
Fishing reel.
Reflectometer. F. A. Benford. 1,677,014; July 10.
Reflector for vehicles, Image. W. Hueller. 1,676,901; July 10.
Refrigerating system. F. W. Schwinn. 1,676,837; July 10.
Refuse can, Sanitary. M. Pfeffer. 1,677,048; July 10.
Regulator: *See*—
Tension regulator.
Relay, J. C. Lindner. 1,676,340; July 10.
Relay, Electrical. C. S. Snavely and W. B. Wells. 1,676,466; July 10.
Releasing device, Adjustable. O. E. Wiltsie. 1,677,009; July 10.
Resistance unit and rheostat. H. G. Richter. 1,676,869; July 10.
Resorcinol, Iso-butyryl. A. R. L. Dohme. 1,677,117; July 10.
Riddle. H. Prell. 1,676,285; July 10.
Rim lock. P. R. Rundy. 1,676,684; July 10.
Rivets, Making hollow. L. M. Persons. 1,676,919; July 10.
Road-finishing machine. C. A. Gustafson. 1,676,548; July 10.
Road-form connection. E. G. Carr. 1,676,477; July 10.
Roller: *See*—
Garden roller.
Roofing and method of making, Prepared. T. Robinson. 1,676,351; July 10.
Roofing, Sheet-metal. L. Kuehn. 1,677,031; July 10.
Rubbing machine. S. F. Anderson. 1,677,112; July 10.
Ruler. H. E. Hunt. 1,676,951; July 10.
Sack holder. S. C. Branum. 1,676,852; July 10.
Safety device for elevators and the like. J. Kaspe. 1,676,443; July 10.
Safety guard for dangerous highways. H. C. Lookabaugh. 1,677,038; July 10.
Sample and pamphlet carrier. Combination. H. Deutschmeister. 1,677,923; July 10.
Sand-mulling device. W. H. Nicholls. 1,676,663; July 10.
Sanding device. W. H. McClelland. 1,676,406; July 10.
Sashes, Mounting for window. C. A. Lewis. 1,676,400; July 10.
Scale. W. S. Smith. 1,676,295; July 10.
Screen: *See*—
Filtering screen. Water screen.
Screen for picture projection. E. R. Hewitt. 1,676,553; July 10.
Seal. C. W. Moore. 1,676,276; July 10.
Searchlight mounting, Vehicle. W. Van Guilder. 1,676,750; July 10.
Seat construction. L. A. McDowell. 1,676,456; July 10.
Seat construction and seat attachment. E. J. Stahl. 1,676,672; July 10.
Seeder, Fruit. A. S. Plowman. 1,676,413; July 10.
Separator: *See*—
Bean separator.
Separators and cleaners, One-fan combined dust-collecting and air-supply system for pneumatic. H. M. Sutton, W. L. Steele, and E. G Steele. 1,676,969; July 10.
Serum and producing the same. C. Leventis. 1,676,995; July 10.
Serum and producing the same, Antitubercular. C. Leventis. 1,676,997; July 10.
Serum, Gland. C. Leventis. 1,676,996; July 10.
Settee frame or similar article. C. Bauer. Des. 75,711–14; July 10.
Sewing machine with several needles. W. Brase. 1,676,853; July 10.
Shade and drapery support, Combined window. G. F. Mallory. 1,676,403; July 10.
Shaft coupling, Flexible. G. M. Bartlett. 1,676,242; July 10.
Shaft furnace, Making glass in a. K. Klinzel. 1,676,267; July 10.
Sheathing board, Apparatus for making lap-edged plaster. C. R. Birdsey. 1,676,318; July 10.
Sheets, Apparatus for controlling. H. E. Lindblndh. 1,676,654; July 10.
Shedding mechanism. A. C. Rifé. 1,676,870; July 10.
Shelf divider, Movable. A. H. Levene. 1,676,910; July 10.
Sheller: *See*—
Corn sheller.
Shelving. A. H. Levene. 1,676,909; July 10.
Shelving, Metallic. F. A. Schmitz. 1,676,930; July 10.
Shingle-grouping machine. C. J. McDavitt. 1,676,911; July 10.
Ship propulsion, System of electric. E. F. W. Alexanderson. 1,676,312; July 10.
Shock absorber for motor vehicles. J. H. Taylor. 1,676,808; July 10.
Shock-absorbing mechanism, Friction. S. B. Haseltine. 1,676,613; July 10.
Shoe strap. F. A. Ballou and R. T. Stafford. Des. 75,710; July 10.
Shoe-turning machines, Shoe locator for. D. Baum. 1,676,722; July 10.
Shuttle. W. H. Harrison. 1,676,438; July 10.
Sifter-top-closing device. N. Loesel. 1,676,615; July 10.
Sign, Advertising. J. A. Wesley. Des. 75,756; July 10.
Sign, Rubber stop. A. J. Stephens. 1,676,843; July 10.
Sign-supporting device. F. A. Oberheu. 1,676,835; July 10.
Signal: *See*—
Automobile alarm signal. Low-tire pressure signal.
Automobile signal. Sound signal.
Signal. W. F. Brettschneider. 1,676,766; July 10.

Signal device. E. A. Miller and C. A. James. 1,676,273; July 10.
Signal for automobiles, Electric. H. E. and G. D. Gordon. 1,676,948; July 10.
Signaling device for vehicles, Electric. D. F. Murphy and L. Cotter. 1,676,571; July 10.
Signaling, Railway. S. M. Lucas. 1,676,788; July 10.
Signaling system, Secrecy. A. Carpe. 1,676,321; July 10.
Signaling systems, Reducing cross talk in carrier-current. H. S. Black. 1,676,627; July 10.
Sink unit, Combination. W. H. Woodin, jr. 1,676,717; July 10.
Slicer, Vegetable. C. H. Ayars. 1,676,241; July 10.
Slipper, Boudoir. H. Wilhelm. Des. 75,757; July 10.
Sludge treatment. L. B. Smith and G. W. Jamison. 1,676,294; July 10.
Slug or bunch catcher. T. J. Sands. 1,677,110; July 10.
Smoothing iron, Electric. C. T. Johnson-Vea. Des. 75,732; July 10.
Snow remover. J. S. Gault. 1,676,823; July 10.
Soaking machine employed in making paper. C. T. Crocker. 1,676,636; July 10.
Socket, Light. O. S. Field. 1,677,114; July 10.
Socket, Switch. G. F. Niemann. 1,676,280; July 10.
Socket, Switch. G. F. Niemann. 1,676,280; July 10.
Sodium phosphate, Preparation of. H. Howard. 1,676,556; July 10.
Soldering leading-in wires to lamp bases. J. J. Higgins. 1,676,949; July 10.
Sole, Shoe inner. B. J. Silver. 1,677,105; July 10.
Soot blower. W. A. Cook and E. P. Stroup. 1,676,479; July 10.
Sound-conveying apparatus. O. R. Grass. 1,676,493; July 10.
Sound signal. R. M. Critchfield. 1,676,528; July 10.
Sound transmitter. W. L. Walker. 1,676,625; July 10.
Speaker unit. O. S. Drake. 1,676,890; July 10.
Speed indicator, Ground-. H. O. Russell. 1,676,965; July 10.
Spider and elevator, Combined casing. G. A. Montgomery. 1,676,275; July 10.
Spindles for creels, Arrangement of. R. C. Longvall. 1,676,864; July 10.
Spinning apparatus. H. Kempf. 1,676,334; July 10.
Spreader for distancing spaced pipes and the like. G. A. Furneaux. 1,676,434; July 10.
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Spring-forming machine. W. H. Bleuel. 1,676,598; July 10.
Spring-handling apparatus. D. E. Odom. 1,676,704; July 10.
Spring motor. D. E. Odom. 1,677,045; July 10.
Spring motor. O. Wittel. 1,676,596; July 10.
Spring shackle. H. D. Geyer. 1,676,489–90; July 10.
Stabilising means for radio receiving systems. P. E. Edelman. 1,676,256; July 10.
Stairway, Metallic. G. L. Bennett. 1,676,317; July 10.
Stanchion. H. W. McCandless. 1,676,568; July 10.
Starter for automobiles and the like, Vaporized gas and air. J. H. Weller. 1,676,591; July 10.
Starter, Motor. C. T. Evans. 1,676,388; July 10.
Stave for barrels and casks, Dove-tailed. E. A. Bolinder. 1,676,319; July 10.
Steel, bearing. H. T. Chandler. 1,676,384; July 10.
Steering wheel. H. D. Geyer. 1,676,488; July 10.
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Steering wheel and ignition lock, Combined. F. W. Stewart. 1,676,416; July 10.
Steering wheels, Horn button mounting for. H. D. Geyer. 1,676,487; July 10.
Stencil-cutting machines, Feed mechanism for. N. C. Heaton. 1,676,551; July 10.
Stocking. W. Laubet. Des. 75,737; July 10.
Stopper: *See*—
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Stove, Liquid-fuel heating. A. C. and J. Sladky. 1,676,805; July 10.
Straightener, Automobile frame. P. O. Hawkins. 1,676,263; July 10.
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Strap: *See*—
Pipe strap.
Strap stay, Adjustable shoulder-. I. Korper. 1,677,109; July 10.
Structural blocks. D. M. Colwell. 1,676,385; July 10.
Studying geologic contours, Method and apparatus for. B. McCollum. 1,676,619; July 10.
Sulphur, Quality of. C. Ellis. 1,676,604; July 10.
Superheater and boiler combination. J. R. Hannan and W. E. English. 1,677,081; July 10.
Support. M. J. Williams. 1,676,372; July 10.
Support, Division-board. A. M. Wolts. 1,676,373; July 10.
Supporting and inclosing structure for ground-working implements. J. E. Funk. 1,676,646; July 10.
Swatter, Fly. A. Olson. 1,677,046; July 10.
Switch: *See*—
Battery switch.
Controlling switch.
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Switch mechanism, Electric flasher. C. H. Bissell. 1,676,850; July 10.
Switch mechanism, Rotary. G. R. Townsend. 1,677,008; July 10.
Switching apparatus. R. D. Malley. 1,676,791; July 10.
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Teaching the deaf to hear and mutes to speak. H. L. Warwick. 1,676,716; July 10.
Telegraphs, Selecting apparatus for electric. C. L. and H. L. Krum. 1,676,448; July 10.
Telegraphy and telemechanical transmission, Signaling system applicable to. C. Verdan and L. M. J. Loiseau. 1,677,062; July 10.
Telephone plug. M. Alden. 1,677,068; July 10.
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Telephone system, Automatic. J. Wicks. 1,676,469; July 10.
Telephone system, Zone-metering. R. F. Gould. 1,677,079; July 10.
Telephone systems, Traffic-recording equipment for. J. E. Ostline. 1,676,742; July 10.
Telephone transmitter. H. J. Round. 1,676,668; July 10.
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Temperature control, Internal-combustion-engine. P. S. Tice. 1,677,103; July 10.
Temperature-indicating means. K. A. Ferkel. 1,676,536; July 10.
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Terminal for electric and wireless connections. L. J. Simon. 1,676,967; July 10.
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Textile fabric. E. Kirchhoff. Des. 75,736; July 10.
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Thermostatic control. R. C. Cheshier. 1,676,478; July 10.
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Tilling. W. C. Magruder. 1,677,039; July 10.
Tire-changing apparatus. A. C. Senger. 1,677,052; July 10.
Time-controlled mechanism. C. M. Creek and A. E. Long. 1,676,253; July 10.
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Toilet-seat cover, Sanitary. B. T. Bing. 1,676,940; July 10.
Toilet-seat covers, Producing folded. W. P. McCorkindale. 1,676,499; July 10.
Tongs, Hair-waving. L. Robadey-Margot. 1,676,405; July 10.
Tool, Diamond lathe. A. Simons. 1,677,055; July 10.
Tool for joining wooden articles. A. C. G. Drellick. 1,676,326; July 10.
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Tractor mechanism. W. S. L. Ulrich. 1,676,624; July 10.
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Transfer-filer hanger. R. H. Dodd. 1,676,531; July 10.
Transfer mechanism for duplex adding machines, cash registers, etc. E. Kassner. 1,676,560; July 10.
Transformer. A. B. Hendricks, jr. 1,677,084; July 10.
Transformer and circuit. L. J. Buttolph. 1,676,768; July 10.
Transformer for electric-arc cutting, repairing, and welding apparatus. F. C. Owen. 1,677,003; July 10.
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Transmitting device, Impulse. J. H. Homrighous. 1,677,091; July 10.
Transmitting energy, System for. J. H. Hammond, jr. 1,677,121; July 10.
Trap. B. O. Dahl. 1,676,427; July 10.
Tray cleaner, Fruit-. J. W. Robinson. 1,676,801; July 10.
Tread, Compound rubber. L. C. Bateman. 1,677,013; July 10.
Treating water, Apparatus for. A. J. Dotterweich. 1,676,532; July 10.
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Trimming grain, Apparatus for. O. E. West. 1,676,757; July 10.
Trimming machine, Flap-. H. D. Stevens. 1,676,807; July 10.
Truss. A. F. Luzzi. 1,676,657; July 10.
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Typewriting machine. L. C. Myers. 1,676,278–9; July 10.
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Universal joint. A. Weiland. 1,676,676; July 10.
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Vacuum cleaner. H. G. Ferber and J. A. Luyben. 1,676,858; July 10.
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Valve, Brake-control. N. A. Christensen. 1,676,980; July 10.
Valve, Check. N. M. Small. 1,677,056; July 10.
Valve float for flush tanks, Flush-. E. L. Delany. 1,676,430; July 10.
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Valve mechanism. J. A. Shively. 1,676,840; July 10.
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Valve puller, Standing-. K. P. Neilsen. 1,676,661; July 10.
Valve-reseating machine. A. Romano and R. Vitale. 1,676,414; July 10.
Valve-stem cover. E. P. Seghers. 1,676,578; July 10.
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Vane sight, Adjustable wind-. C. L. Paulus. 1,676,963; July 10.
Vehicle for children. C. H. Boardman. 1,677,017; July 10.
Vehicle frame. D. G. Mackenzie. 1,676,342; July 10.
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Vehicle, Motor. M. Tibbetts. 1,676,878; July 10.
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Vehicles, Front-wheel drive for motor. F. B. Hamlin. 1,676,436; July 10.
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Velocipede. J. Toman. 1,677,061; July 10.
Vending apparatus, Liquid-. N. W. Clayton. 1,677,113; July 10.
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Vibratory-converter. R. D. Amsden. 1,676,973; July 10.
Vibratory converter. R. T. Cheeseman. 1,676,979; July 10.
Visor attachment for motor vehicles. A. G. Forster. 1,676,537; July 10.
Vitreous polymerised styrol and its homologues, to the powder so produced, and articles including such material, Making powdered. I. Ostromislensky. 1,676,281; July 10.
Waffle iron. H. H. Schott. Des. 75,750; July 10.
Washing and cleaning apparatus. A. A. Smallhouse. 1,676,842; July 10.
Washing compound. T. Moss. 1,677,044; July 10.
Washing machine. J. I. Haase. 1,676,825; July 10.
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Watch-bracelet end hook. F. W. Nittel. 1,677,101; July 10.
Water-closet system. A. Hanamann. 1,676,550; July 10.
Water heater, Electrical. H. C. Welcomer. 1,676,510; July 10.
Waterproof fabric. L. Seidell and G. B. Jack, jr. 1,676,362; July 10.
Water screen. C. A. Brandt. 1,676,245; July 10.
Water-tube boiler. B. Broido. 1,676,631; July 10.
Water wings. J. R. Heminger. 1,677,083; July 10.
Weather strip, Automatic all-. F. D. Zimmerman and C. Wells. 1,677,067; July 10.
Welding cast iron, Flux for. C. C. Maryan. 1,676,988; July 10.
Welding, Electric. G. H. Phelps. 1,676,282; July 10.
Welding machine, Automatic arc-. F. A. Haughton. 1,676,985; July 10.
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Wheel for supporting portable containers, Swiveled. A. F. Callison. 1,676,381; July 10.
Wheel mounting. B. Darrow. 1,676,820; July 10.
Wheel rim, Vehicle. C. T. Biers. 1,676,725; July 10.
Wheel structure. R. J. Reaney. 1,677,104; July 10.
Wheels, Tread attachment for vehicle. P. W. Palm. 1,676,705; July 10.
Winding and reeling machine. E. E. Bradley and I. R. Rowe. 1,676,885; July 10.
Winding machine, Yarn-. J. K. Altemus. 1,676,374; July 10.
Windmills with electric generators, Connecting. L. Constantin. 1,677,027; July 10.
Window. C. A. Lewis. 1,676,399; July 10.
Window construction. F. A. Yeager. 1,676,597; July 10.
Window ventilator. M. F. Clay. 1,676,251; July 10.
Wiper, Windshield. C. A. Carlson. 1,677,018; July 10.
Wiper, Windshield. S. P. Klenast. 1,676,561; July 10.
Woodworking machine, Automatic. W. Lotterman, L. B. Lester, and M. K. Orton. 1,676,738; July 10.
Work clamp, Machinist's. A. Schmalz. 1,676,289; July 10.
Work holder. C. Schron. 1,676,290; July 10.
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Wrench extension, Speed-handle. W. J. Victory. 1,676,370; July 10.
Wringers, Safety device for clothes. L. S. Gunderman. Re17,030; July 10.
Yeast, Manufacture of. A. P. Harrison. 1,676,437; July 10.

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ISSUED JULY 10, 1928.

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99— 11: 1,676,730
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103— 6: 1,676,822
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265: R. 17,032
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110: 1,676,565
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116— 119: 1,676,644
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156— 26: 1,676,327
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76: 1,676,745
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206— 15.1: 1,676,756
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62: 1,676,298
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226— 92: 1,676,378
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88: 1,677,053
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84.4: 1,676,678
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246— 41: 1,676,788
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249— 9: 1,676,244
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251— 119: 1,677,056
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255— 72: 1,676,887
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257— 43: 1,676,740
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260— 2: 1,676,281
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87: 1,676,697
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95: 1,676,451
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263— 6: 1,676,590
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264— 15: 1,676,902
265— 1: 1,676,774
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267— 54: 1,676,489
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270— 47: 1,676,882
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271— 28: 1,676,897
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67: 1,676,664
84: 1,676,689
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273— 80: 1,676,270
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97: 1,676,896
299— 84: 1,676,842
300— 11: 1,676,640
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54: 1,676,980
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190: 1,676,784
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July 17, 1928

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abrahams, Julius, doing business as Philadelphia Badge Co., Philadelphia, Pa. Machines for making pocket mirrors and similar articles. 244,419; July 17; Serial No. 254,954; published May 8, 1928. Class 23.

Adams, Charles, New Kensington, Pa. Beverage, sirup, extract, etc. 244,221; July 17; Serial No. 262,148; published May 8, 1928. Class 45.

Addressograph Company, Chicago, Ill. Printing machines. 244,504; July 17; Serial No. 266,179; published June 26, 1928. Class 23.

Adels, Louis, New York, N. Y. Movements and cases of watches. 244,470; July 17. Class 27.

Aftergood, George, doing business as California Knitting Mills, Los Angeles, Calif. Men's, boys', women's, misses', and children's sweaters, bathing suits, coats, etc. 244,493; July 17. Class 39.

Aigner, George J., doing business as G. J. Aigner & Co., Chicago, Ill. Supplies for filing systems or equipments. 244,459; July 17; Serial No. 257,847; published May 1, 1928. Class 37.

Air Filtration Corporation, New York, N. Y. Air-filtering screens. 244,380; July 17; Serial No. 253,732; published May 8, 1928. Class 34.

Alexander, Water Valley, Miss. Medicine and tonic. 244,204; July 17; Serial No. 262,687; published May 8, 1928. Class 6.

Allen, Samuel H., doing business as The Allendi Soap Powder Co., Dallas, Tex. Soap powder. 244,322; July 17; Serial No. 262,884; published May 8, 1928. Class 4.

Allendi Soap Powder Co., The. (See Allen, Samuel H., assignor.)

Alton Mercantile Company, Enid, Okla. Canned fruits and vegetables, coffee, and peanut butter. 244,347; July 17; Serial No. 260,420; published May 1, 1928. Class 46.

Altorfer Bros. Company, East Peoria, Ill. Laundry washing machines. 244,349; July 17; Serial No. 260,612; published May 8, 1928. Class 24.

Ambassador Cap Company. (See N. Y. Mfg. Corp.)

American Cake Baking Co., Jersey City, N. J. Pound cake and fancy cakes. 244,449; July 17; Serial No. 258,789; published May 1, 1928. Class 46.

Anso Company, The, San Francisco, Calif. Pharmaceutical preparations. 244,243; July 17; Serial No. 261,034; published May 8, 1928. Class 6.

Arnest's Malted Milk Shops, San Francisco, Calif. Malted milk. 244,206; July 17; Serial No. 262,641; published May 8, 1928. Class 46.

Artcraft Radiator Enclosure Co. (See Jackson, Irving.)

Atlantic Packing Company. (See Consolidated Rendering Company.)

Austrian, Alene L., New York, N. Y. Clothing racks. 244,405; July 17; Serial No. 259,937; published May 1, 1928. Class 32.

Autographic Register Company, Hoboken, N. J. Manifolding registers. 244,289; July 17; Serial No. 245,184; published May 17, 1927. Class 37.

Bailey, Henry R., Los Angeles, Calif. Candies. 244,278; July 17; Serial No. 236,302; published May 8, 1928. Class 46.

Baker-Finley Chemical Company, The, Cleveland, Ohio. Washing compound. 244,329; July 17; Serial No. 263,066; published Apr. 24, 1928. Class 4.

Beacon Manufacturing Company, New Bedford, Mass. Blankets. 244,199; July 17; Serial No. 263,256; published May 1, 1928. Class 42.

Beall, J. F., Dry Goods Co., Inc., Dothan, Ala. Shirts, hosiery, sweaters, etc. 244,502; July 17. Class 39.

Benson, Benjamin D., & Sons, Inc., New York, N. Y. Binding for bank checks, etc. 244,379; July 17; Serial No. 253,978; published May 1, 1928. Class 37.

Beyer Fish Co., New York, N. Y. Fresh and salt water fish and cooked and smoked fish, etc. 244,460; July 17; Serial No. 259,757; published May 1, 1928. Class 46.

Bilsh Milling Company, Seymour, Ind. Self-rising flour. 244,436; July 17; Serial No. 250,960; published May 1, 1928. Class 46.

Bloom, Leo, doing business as Mi-Tee-Fine Supply Co., Brooklyn, N. Y. Cuticle-removing powder, cuticle ice, nail polish, etc. 244,441; July 17; Serial No. 259,349; published May 1, 1928. Class 6.

Boak, R. B., Company, The, Chicago, Ill. Canned sardines. 244,376; July 17; Serial No. 254,167; published May 1, 1928. Class 46.

Bohack, H. C., Co., Inc., Brooklyn, N. Y. Canned fruits, canned vegetables, etc. 244,280; July 17; Serial No. 238,480; published May 8, 1928. Class 46.

Bonjois, Inc., New York, N. Y. Soap. 244,394; July 17; Serial No. 256,444; published May 1, 1928. Class 4.

Bowes, Orlando C., Pittsburgh, Pa., doing business as Clecold Container Company, Oakland Station, Pa. Metallic shipping cases. 244,351; July 17; Serial No. 260,671; published May 1, 1928. Class 2.

Boyle, John, & Company Incorporated, New York, N. Y. Cotton ducks and drills; awning stripe and ticking. 244,481–6; July 17. Class 32.

Bracken & Jones Auto Awning Co., Augusta, Kans. Automobile awnings. 244,479; July 17. Class 19.

Bradas & Gheens. (See Gheens, C. E.)

Bradford Bros., Inc., Placentia, Calif. Fresh citrus fruits. 244,197; July 17; Serial No. 263,303; published May 1, 1928. Class 46.

Buffalo Envelope Company, Inc., Buffalo, N. Y. Envelopes. 244,403; July 17; Serial No. 255,095; published May 8, 1928. Class 37.

Buffalo Envelope Company, Inc., Buffalo, N. Y. Envelopes, catalogues, and booklets. 244,417; July 17; Serial No. 255,094; published May 8, 1928. Class 37.

Bunte Brothers, Chicago, Ill. Candy. 244,183; July 17; Serial No. 261,041; published May 8, 1928. Class 46.

Burke, J. D., Drug Co. (See Hurst, Andrew W.)

Butterfield, Fred, & Co., Inc., New York, N. Y. Thread and yarns of cotton, etc. 244,338; July 17; Serial No. 264,280; published May 8, 1928. Class 43.

Buzza Company, The, Minneapolis, Minn. Gift mottoes. 244,469; July 17. Class 38.

California Co-Operative Producers, Oakland, Calif. Canned fruits, vegetables, etc. 244,382–3; July 17; Serial Nos. 253,304–5; published May 8, 1928. Class 46.

California Knitting Mills. (See Aftergood, George.)

Cambridge Paper Box Company, Cambridge, Mass. Paper boxes. 244,184-5; July 17; Serial Nos. 263,535-6; published May 8, 1928. Class 2.

Cameo Frame Company, The, Chicago, Ill. Picture frames. 244,319; July 17; Serial No. 262,841; published May 8, 1928. Class 32.

Campbell, Andrew C., Incorporated, Waterbury, Conn. Machines for cutting or punching sheet metal. 244,283; July 17; Serial No. 240,803; published May 1, 1928. Class 23.

Cap Sheaf Bread Company, St. Louis, Mo. Cookies. 244,366; July 17, Serial No. 262,694; published May 1, 1928. Class 45.

Carafiol-Silverman Garment Co., St. Louis, Mo. Fabrics and cloth of silk, rayon, wool, cotton, etc. 244,247; July 17; Serial No. 263,033; published May 1, 1928. Class 42.

Carpenter Cook Co., doing business as Michigan Candy Co., Menominee, Mich. Candy. 244,415; July 17; Serial No. 263,685; published May 8, 1928. Class 46.

Carter Brothers, Chattanooga, Tenn. Textile rugs. 244,411; July 17; Serial No. 263,750; published May 1, 1928. Class 42.

Carter Dry Goods Co., Louisville, Ky. Cotton piece goods. 244,414; July 17; Serial No. 263,687; published May 1, 1928. Class 42.

Carter M. N., & Sons Company, Providence, R. I. Gypsum wall board. 244,472; July 17. Class 12.

Cederlund, Carl E., doing business as J. Cederlunds Söner, Stockholm, Sweden. Alcoholic punch. 244,435; July 17; Serial No. 251,426; published May 8, 1928. Class 49.

Centemeri, P., & Co., New York, N. Y. Bags, key containers, etc. 244,339; July 17; Serial No. 260,090; published June 26, 1928. Class 3.

Centemeri, P., & Co., New York, N. Y. Bags, suitcases, portfolios, pocketbooks, etc. 244,340; July 17; Serial No. 260,096; published May 8, 1928. Class 3.

Central Chemical Company. (See Nobrega, Frank B.)

Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. 244,175; July 17; Serial No. 261,553; published May 1, 1928. Class 42.

Chesterfield Dry Ginger Ale Co. (See Mulvihill-Goodwine Company.)

Chicago Mail Order Company, Chicago, Ill. Automobile tires and inner tubes therefor. 244,205; July 17; Serial No. 262,647; published May 8, 1928. Class 35.

Chrome Liquid, Inc., Chicago, Ill. Liquid metal polish. 244,212; July 17; Serial No. 262,508; published Apr. 24, 1928. Class 4.

Cierva Autogiro Co. Ltd., The, London, England. Flying machines and wings, vanes, etc. 244,292; July 17; Serial No. 247,521; published May 8, 1928. Class 19.

Clecold Container Company. (See Bowes, Orlando C.)

Coelho Brothers, Fall River, Mass. Olive oil. 244,210; July 17; Serial No. 262,555; published May 1, 1928. Class 46.

Collins and Aikman Corporation, Philadelphia, Pa. Pile fabrics in the piece and cut lengths. 244,198; July 17; Serial No. 263,259; published May 1, 1928. Class 42.

Columbian Rope Company, Auburn, N. Y. Rope of a vegetable fiber. 244,234; July 17; Serial No. 261,554; published May 8, 1928. Class 7.

Combeasy Co. Inc., The, Long Beach, Calif. Hair, scalp, and skin lotion. 244,226; July 17; Serial No. 261,942; published May 8, 1928. Class 6.

Consolidated Rendering Company, doing business as Atlantic Packing Company, Boston, Mass. Lard, oleo oils, poultry and stock feeds, gelatine, etc. 244,353; July 17; Serial No. 260,807; published May 8, 1928. Class 46.

Coshocton Glove Company, The, Coshocton, Ohio. Leather and canvas gloves. 244,500; July 17. Class 39.
Coudurier, Fructus & Descher, Lyon, France. Silk piece goods, silks and metal, etc. 244,390; July 17; Serial No. 257,054; published May 8, 1928. Class 42.
Crawford's Clothes Inc., New York, N. Y. Men's and boys' suits and overcoats. 244,488; July 17. Class 39.
Cremo Pop Corporation, New York, N. Y. Chocolate coating for ice cream. 244,323; July 17; Serial No. 262,901; published May 8, 1928. Class 46.
Crescent Paper Dish Co., Inc., Brooklyn, N. Y. Paper dishes. 244,245; July 17; Serial No. 263,074; published May 1, 1928. Class 2.
Cribben & Sexton Co., Chicago, Ill. Gas ranges and parts thereof. 244,374; July 17; Serial No. 254,385; published May 1, 1928. Class 34.
Crown Bottle Supply. (See Margolis, M.)
Crusader Products Co. (See Mandlak, Louis.)
Cushman-Hollis Company, Auburn, Me. Shoes. 244,495; July 17. Class 39.
Cut-Off & Speed Recorder Corporation, New York, N. Y. Device for simultaneously indicating cut-off and speed of steam engines. 244,169; July 17; Serial No. 261,795; published May 8, 1928. Class 26.
D. T. Products Co., East McKeesport, Pa. Liquid soap or soap paste. 244,229; July 17; Serial No. 261,703; published May 8, 1928. Class 4.
Dayton Pump & Manufacturing Company, The, Dayton, Ohio. Self-measuring liquid-dispensing pumps. 244,451; July 17; Serial No. 258,622; published May 8, 1928. Class 26.
David City Bottling Works. (See Reid, Robert A.)
Davis, Fridham B., Los Angeles, Calif. Watch crystals. 244,429; July 17; Serial No. 252,820; published May 1, 1928. Class 33.
De-Luxe Specialty Co., Jersey City, N. J. Lemon mud pack, creams, brilliantine, etc. 244,455; July 17; Serial No. 258,462; published May 1, 1928. Class 6.
District of Columbia Paper Manufacturing Company, Washington, D. C. Cover paper, blotting paper, etc. 244,384; July 17; Serial No. 257,789; published May 1, 1928. Class 37.
D'Orsay Perfumeries Corporation, New York, N. Y. Perfumes, bath salts, powders, toilet water, creams, etc. 244,381; July 17; Serial No. 253,317; published May 1, 1928. Class 6.
Doubleday, Frank N., Garden City, N. Y. Magazine. 244,442; July 17; Serial No. 259,326; published May 1, 1928. Class 38.
Down East Boat Corporation, Camden, Me. Motor boats. 244,370; July 17; Serial No. 262,511; published May 8, 1928. Class 19.
Drake & Company, Easton, Pa. Teas and coffee. 244,165; July 17; Serial No. 262,022; published May 1, 1928. Class 46.
Dunn, John, Brooklyn, N. Y. Medicinal preparation. 244,281; July 17; Serial No. 239,975; published May 8, 1928. Class 6.
Earle, Marie, Inc., New York, N. Y. Soap. 244,225; July 17; Serial No. 261,971; published Apr. 24, 1928. Class 4.
Edward Valve and Manufacturing Co., The, East Chicago, Ind. Metal valves and parts thereof. 244,294; July 17; Serial No. 248,164; published May 8, 1928. Class 13.
Ellison Furniture & Carpet Co., Fort Worth, Tex. Mattresses, bed springs, cushions, and pillows. 244,399; July 17; Serial No. 255,503; published May 8, 1928. Class 32.
Empire Pickle Works. (See Recht & Rosenbaum, Inc.)
Ennis-Hanly-Blackburn Coffee Co., The, Kansas City, Mo. Roasted coffee. 244,260; July 17; Serial No. 262,799; published May 1, 1928. Class 46.
Ennis-Hanly-Blackburn Coffee Co., The, Kansas City, Mo. Coffee. 244,363; July 17; Serial No. 262,800; published May 1, 1928. Class 46.
Ero Manufacturing Co., Chicago, Ill. Illuminated tire covers. 244,213; July 17; Serial No. 262,394; published May 1, 1928. Class 35.
Faber, A. W., Inc., Newark, N. J. Lead pencils, ink pencils, etc. 244,177; July 17; Serial No. 261,496; published May 1, 1928. Class 37.
Fargason, J. T., Grocer Co., Memphis, Tenn. Macaroni, spaghetti, noodles, etc. 244,299; July 17; Serial No. 263,206; published May 8, 1928. Class 46.
Farish, James H., doing business as Georgia Novelty Mfg. Co., Columbus, Ga. Propellers and propeller parts, etc. 244,450; July 17; Serial No. 258,735; published May 1, 1928. Class 19.
Federated Business Publications, Inc., New York, N. Y. Monthly printed periodical or trade paper. 244,233; July 17; Serial No. 261,539; published Apr. 24, 1928. Class 38.
Fetter, G. E., McKeesport, Pa. Preparation for treating and preventing head cold, catarrh, etc. 244,444; July 17; Serial No. 259,240; published May 1, 1928. Class 6.
Findlay & Cohen, Philadelphia, Pa. Polish. 244,426; July 17; Serial No. 252,897; published May 8, 1928. Class 4.
Finkel Paper Company, Brooklyn, N. Y. Toilet paper. 244,348; July 17; Serial No. 260,563; published May 1, 1928. Class 37.
Finn Chemical Company, doing business as A. J. Gratton, Portland, Oreg. Flavoring extracts for foods. 244,475; July 17. Class 46.
Fisher, Evan, Cleveland, Ohio. Beverages. 244,352; July 17; Serial No. 260,679; published May 8, 1928.
Fligel, Ben, doing business as Ben Fligel Co., New York, N. Y. Raincoats and slickers. 244,497; July 17. Class 39.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 244,244; July 17; Serial No. 263,131; published May 1, 1928. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 244,273–5; July 17; Serial Nos. 263,133–5; published May 1, 1928. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 244,332–6; July 17; Serial Nos. 263,138–42; published May 1, 1928. Class 42.
Frame, William S., Schenectady, N. Y. Cast-metal manhole covers. 244,457; July 17; Serial No. 258,173; published May 8, 1928. Class 13.
Frangos, Mike, doing business as Lancaster Chocolate Specialty Co., Lancaster, Pa. Chocolate-covered wafers. 244,265; July 17; Serial No. 262,353; published May 1, 1928. Class 46.
Freeman, N. R., Winamac, Ind. Medicine. 244,242; July 17; Serial No. 261,104; published May 1, 1928. Class 6.
Fuller, W. P., & Co., San Francisco, Calif. Glass. 244,458; July 17; Serial No. 257,976; published May 8, 1928. Class 33.
Fulton, E. E., Co., Chicago, Ill. Motion-picture-theatre equipment. 244,180; July 17; Serial No. 261,311; published May 1, 1928. Class 26.
Gage Publishing Company, Inc., The, New York, N. Y. Periodical. 244,330; July 17; Serial No. 263,081; published May 1, 1928. Class 38.
Gear Robinson Corporation, The, Minneapolis, Minn. Portable savings banks. 244,194; July 17; Serial No. 263,387; published May 8, 1928. Class 25.
General Industrial Alcohol Company, Incorporated, Marrero, La. Ethyl alcohol. 244,173; July 17; Serial No. 261,564; published May 8, 1928. Class 49.
Georgia Novelty Mfg. Co. (See Farish, James H.)
Gheens, C. E., doing business as Bradas & Gheens, Louisville, Ky. Candy. 244,367; July 17; Serial No. 262,560; published May 1, 1928. Class 46.
Geier, P. A., Company, The, Cleveland, Ohio. Spray attachments. 244,174; July 17; Serial No. 261,563; published May 8, 1928. Class 23.
Gilman Fanfold Corporation, Ltd., Niagara Falls, N. Y. Printed blank forms. 244,428; July 17; Serial No. 252,834; published Nov. 1, 1927. Class 37.
Glidden Company, The, Cleveland, Ohio. Magazine. 244,239; July 17; Serial No. 261,254; published Apr. 24, 1928. Class 38.
Glittertrim Company, Inc., Haledon, N. J. Shredded paper. 244,447; July 17; Serial No. 258,099; published May 1, 1928. Class 37.
Goldenberg Bros. & Co., New York, N. Y. Silk chiffon crepe in the piece. 244,255; July 17; Serial No. 262,908; published May 1, 1928. Class 42.
Goodall Rubber Company, Philadelphia, Pa. Conducting hose. 244,241; July 17; Serial No. 261,110; published May 1, 1928. Class 35.
Goodman & Suss, Inc., Rochester, N. Y. Men's and young men's suits. 244,494; July 17. Class 39.
Goodrich, B. F., Company, The, New York, N. Y. Conducting hose. 244,222; July 17; Serial No. 262,078; published May 1, 1928; Class 35.
Gratton, A. J. (See Finn Chemical Company.)
Great American Tea Co., The, New York, N. Y. Stove and metal polish. 244,325; July 17; Serial No. 262,959; published Apr. 24, 1928. Class 4.
Great American Tea Co., The, New York, N. Y. Waxed paper and toilet paper. 244,430; July 17; Serial No. 252,381; published Apr. 24, 1928. Class 37.
Griffin Manufacturing Company, Inc., New York, N. Y. Shoe-shine cabinets. 244,302; July 17; Serial No. 263,264; published May 1, 1928. Class 32.
Griggs, Cooper & Company, St. Paul, Minn. Fruit preserves, jellies, and table syrup. 244,341; July 17; Serial No. 260,114; published May 8, 1928. Class 46.
Griggs, Cooper & Company, St. Paul, Minn. Fruit preserves, jellies, table syrup, etc. 244,342; July 17; Serial No. 260,120; published May 8, 1928; Class 46.
Gripsit Corporation, Cambridge, Mass. Twine and household cord. 244,439; July 17; Serial No. 248,899; published May 8, 1928. Class 7.
Griscom-Russell Company, The, New York, N. Y. Heat exchangers and parts thereof. 244,440; July 17; Serial No. 259,443; published May 1, 1928. Class 23.
Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods. 244,254; July 17; Serial No. 262,909; published May 1, 1928. Class 42.
Handal, S., & Sons, New York, N. Y. Linen-finished piece goods. 244,431; July 17; Serial No. 252,826; published May 1, 1928. Class 42.
Harrison, Richard C., doing business as Harrison & Company, Haverhill, Mass. Razor hone. 244,236; July 17; Serial No. 261,508; published Apr. 4, 1928. Class 4.
Harrison, Richard C., doing business as Harrison & Company, Haverhill, Mass. Valve-grinding compounds. 244,237; July; Serial No. 261,507; published Apr. 24, 1928. Class 4.

Hastings, John J., doing business as Irish Products Co., Milton, Mass. Malt syrup. 244,209; July 17; Serial No. 262,606; published May 8, 1928. Class 46.
Hauschildt, Paul G., Jamaica Plain, Mass. Malt extract. 244,331; July 17; Serial No. 263,120; published July 17; 1928. Class 46.
Hawkins, Alva B., doing business as The House of Hawkins, and as Hawkins, Los Angeles, Los Angeles, Calif. Candy. 244,192; July 17; Serial No. 263,468; published May 8, 1928. Class 46.
Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat flour. 244,448; July 17; Serial No. 258,943; published May 1, 1928. Class 46.
Heiberg, Soren J., Company, Inc., Chicago, Ill. Malt syrups. 244,296; July 17; Serial No. 263,150; published May 8, 1928. Class 46.
Heine & Co., New York, N. Y. Chemicals, aldehydes, alcohols, etc. 244,320; July 17; Serial No. 262,846; published May 8, 1928. Class 6.
Helbraun, Louis N., doing business as The L. N. H. Chemical Co., Chicago, Ill. Liniments and cough syrups. 244,354; July 17; Serial No. 260,823; published May 1, 1928. Class 6.
Henkel-Clauss Co., The, Fremont, Ohio. Choppers, pruners, tinner, jeweler, etc., snips, etc. 244,413; July 17; Serial No. 263,701; published May 8, 1928. Class 23.
Henter, Leo A., Silver Creek, N. Y. Savings banks or coin receptacles. 244,264; July 17; Serial No. 262,360; published May 1, 1928. Class 25.
Heublein, G. F., & Bro., Hartford, Conn. Canned baked beans. 244,253; July 17; Serial No. 262,960; published May 8, 1928. Class 46.
Heyman & Bissinger Co., New York, N. Y. Hosiery. 244,498; July 17. Class 39.
Hilf Products Company, Brooklyn, N. Y. Ointment. 244,473; July 17. Class 6.
Hollenbeck, George J., Sacramento, Calif. Asparagus. 244,375; July 17; Serial No. 254,281; published May 1, 1928. Class 46.
Holliston Mills Inc., The, Norwoood, Mass. Book cloth. 244,191; July 17; Serial No. 263,470; published May 8, 1928. Class 42.
Houghton, E. F., & Co., Philadelphia, Pa. Pickling compounds. 244,480; July 17. Class 6.
House of Hawkins, The. (See Hawkins, Alva B.)
Hudnut, Richard, New York, N. Y. Soap. 244,297; July 17; Serial No. 263,153; published May 8, 1928. Class 4.
Hughes Fawcett Inc., New York, N. Y. Twines. 244,404; July 17; Serial No. 259,958; published May 1, 1928. Class 7.
Hupp Motor Car Corporation, Richmond, Va., and Detroit, Mich. Tire covers. 244,328; July 17; Serial No. 263,042; published May 1, 1928. Class 35.
Hurst, Andrew W., doing business as J. D. Burke Drug Co., Montgomery, Ala. Laxative tonics. 244,306; July 17; Serial No. 263,403; published May 8, 1928. Class 6.
Hygienic Products Company, The, Canton, Ohio. Water softener. 244,427; July 17; Serial No. 252,846; published May 8, 1928. Class 6.
Hyman, S. E., Company, The, Fremont, Ohio. Removable textile seat covers. 244,355; July 17; Serial No. 260,827; published May 8, 1928. Class 42.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main and Berlin, Germany. Cameras and parts therefor. 244,454; July 17; Serial No. 258,464; published May 1, 1928. Class 26.
Illinois Brass Manufacturing Co., Chicago, Ill. Horns for automobiles. 244,282; July 17; Serial No. 240,548; published Jan. 4, 1927. Class 23.
International Paper Company, New York, N. Y. Writing and printing paper. 244,290; July 17; Serial No. 246,479; published May 8, 1928. Class 37.
Irish Products Co. (See Hastings, John J.)
Italian Supply Co., The, Lock Haven, Pa. Malt syrup. 244,313; July 17; Serial No. 263,473; published May 8, 1928. Class 46.
Jaciel Perfumers, Inc., New York, N. Y. Skin lotion, talcum powder, perfume, etc. 244,235; July 17; Serial No. 261,511; published May 1, 1928. Class 6.
Jackson, Irving, doing business as Artcraft Radiator Enclosure Co., New York, N. Y. Radiator screens. 244,318; July 17; Serial No. 262,714; published May 8, 1928. Class 32.
Jensen Creamery Machinery Company, Bloomfield, N. J. Pasteurizers. 244,261; July 17; Serial No. 262,462; published May 8, 1928. Class 23.
Jersey Cereal Company, Cereal, Pa. Cereal breakfast foods. 244,172; July 17; Serial No. 261,633; published May 1, 1928. Class 46.
Johnson, Jas. G., & Co., New York, N. Y. Silk piece goods. 244,257; July 17; Serial No. 262,853; published May 8, 1928. Class 42.
Jönköpings och Vulcans Tändsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 244,326; July 17; Serial No. 262,964; published May 1, 1928. Class 9.
Jordan Marsh Company, Boston, Mass. Sewing machines. 244,266; July 17; Serial No. 262,309; published May 8, 1928. Class 23.
Joy-Kelsey Corporation, Chicago, Ill. Paint-spray guns. 244,477; July 17. Class 23.
Kansas City Paper House, Kansas City, Mo. Book paper. 244,247; July 17; Serial No. 262,966; published Apr. 24, 1928. Class 37.
Kehoe, James J., Toronto, Ontario, Canada. Dishwashing machines. 244,346; July 17; Serial No. 260,391; published May 1, 1928. Class 23.
Keystone Publishing Company, Los Angeles, Calif. Magazine. 244,228; July 17; Serial No. 261,883; published May 1, 1928. Class 38.
Kilborn & Bishop Company, The, New Haven, Conn. Rock drills. 244,164; July 17; Serial No. 262,032; published May 1, 1928. Class 23.
Kirsch, David, doing business as Kirsch Jewelry & Novelty Co., St. Louis, Mo. Compound in flake form. 244,208; July 17; Serial No. 262,612; published May 8, 1928. Class 6.
Klink Products Corporation, Brooklyn, N. Y. Cleaning fluid. 244,337; July 17; Serial No. 263,707; published May 8, 1928. Class 4.
Kohnstamm, H., & Co., Inc., New York, N. Y. Soap flakes. 244,345; July 17; Serial No. 260,280; published Apr. 24, 1928. Class 4.
Ko-Pa Corporation, Fort Worth, Tex. Syrup. 244,232; July 17; Serial No. 261,575; published May 8, 1928. Class 46.
Ko-Pa Corporation, Fort Worth, Tex. Breakfast food. 244,272; July 17; Serial No. 262,033; published May 1, 1928. Class 46.
Krueger, Gottfried, Brewing Co., Newark, N. J. Malt beverage. 244,317; July 17; Serial No. 262,711; published May 8, 1928. Class 48.
Krueger, Gottfried, Brewing Co., Newark, N. J. Beverage. 244,365; July 17; Serial No. 262,712; published May 8, 1928. Class 48.
L. N. H. Chemical Co., The. (See Helbraun, Louis N.)
Lake Mills Canning Company, Lake Mills, Iowa. Canned vegetables. 244,190; July 17; Serial No. 263,481; published May 1, 1928. Class 46.
Lancaster Chocolate Specialty Co. (See Frangos, Mike.)
Lanson Co. Inc., New York, N. Y. Fur garments, dresses, hosiery, etc. 244,462; July 17. Class 39.
Lanson Co. Inc., New York, N. Y. Necklaces. 244,463; July 17. Class 28.
Lazier, J. F., Manufacturing Co., Inc., St. Louis, Mo. Flavoring extracts and concentrated syrups. 244,252; July 17; Serial No. 262,918; published May 8, 1928. Class 45.
Lazier, J. F., Manufacturing Co., Inc., St. Louis, Mo. Flavoring extracts and concentrated syrups. 244,324; July 17; Serial No. 262,919; published May 8, 1928. Class 45.
Lefore Grocery Company, Greenwood, Miss. Roasted coffee. 244,269; July 17; Serial No. 262,160; published May 1, 1928. Class 46.
Leinbach, G. M., Chicago, Ill. Cigarettes and smoking tobacco. 244,182; July 17, Serial No. 261,269; published May 8, 1928. Class 17.
Lema & Co., Boston, Mass. Shoes. 244,489–90; July 17. Class 39.
Liberty Umbrella Company, New York, N. Y. Umbrellas and parasols. 244,478; July 17. Class 41.
Liebovitz, S., & Sons, Inc., New York, N. Y. Shirts. 244,499; July 17. Class 39.
Lilly, Eli, and Company, Indianapolis, Ind. Palatable combination of cod-liver oil with malt and an extract rich in B vitamin. 244,238; July 17; Serial No. 261,321; published May 8, 1928. Class 6.
Limo Chemical Co., The, Decatur, Ind. Washing powder. 244,223; July 17; Serial No. 262,034; published May 1, 1928. Class 4.
Limoneira Company, Santa Paula, Calif. Oranges, lemons, and grapefruit. 244,189; July 17; Serial No. 263,484; published May 8, 1928. Class 46.
Lippitt, Thomas P., Washington, D. C., and San Juan, P. R. Oranges and grapefruit. 244,344; July 17; Serial No. 260,181; published May 1, 1928. Class 46.
Lockwood, Charles N., Chicago, Ill. Canned cooked food consisting of cereals and fruit. 244,453; July 17; Serial No. 258,581; published May 1, 1928. Class 46.
Lockyer, Frank H., Supply Co, Limited, Liverpool, England. Hard-baked wheat flour. 244,389; July 17; Serial No. 257,169; published May 8, 1928. Class 46.
Looseleaf Education, Inc., Columbus, Ohio. Weekly publication. 244,420; July 17; Serial No. 254,921; published Apr. 24, 1928. Class 38.
Lufrie Co., Inc., The, New York, N. Y. Tooth paste, powder, and wash, mouth wash, dental floss, and liquid shampoo. 244,229; July 17; Serial No. 261,888; published May 8, 1928. Class 6.
Madelon Modes, Inc., New York, N. Y. Hand bags, purses, and pocketbooks. 244,271; July 17; Serial No. 262,103; published May 8, 1928. Class 3.
Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. 244,203; July 17; Serial No. 263,221; published May 8, 1928. Class 42.
Mandlak, Louis, doing business as Crusader Products Co., Amarillo, Tex. Insecticide. 244,304; July 17; Serial No. 263,326; published May 8, 1928. Class 6.
Margolis, M., doing business as Crown Bottle Supply, Los Angeles, Calif. Malt syrup. 244,327; July 17; Serial No. 263,006; published May 1, 1928. Class 46.
Martinez, Pedro R., Habana, Cuba. Pharmaceutical preparation. 244,224; July 17, Serial No. 261,972; published May 1, 1928. Class 6.

Masonite Corporation, Laurel, Miss. Fiber board, thermal insulating board, composite board, etc. 244,487; July 17. Class 12.
McGrath, Thomas S., doing business as Tasam Publishing Company, Washington, D. C. Periodical. 244,303; July 17; Serial No. 263,276; published May 1, 1928. Class 38.
McKinlay, Geo., Sanger, Calif. Fresh deciduous fruits. 244,202; July 17; Serial No. 263,222; published May 8, 1928. Class 46.
Mechanical Handling Systems, Incorporated, Detroit, Mich. Conveyors, elevators, monorails, trolleys, etc. 244,357; July 17; Serial No. 260,898; published May 8, 1928. Class 23.
Medi-Jell Products, Inc., New York and Brooklyn, N. Y. Ointment preparation. 244,216; July 17; Serial No. 262,321; published May 1, 1928. Class 6.
Merckens Chocolate Co., Inc., Buffalo, N. Y. Chocolate, cocoa, chocolate coating, etc. 244,492; July 17. Class 46.
Merell, Wm. S., Company, The, Cincinnati, Ohio. Detoxifying agent. 244,397; July 17; Serial No. 256,002; published; May 1, 1928. Class 6.
Michigan Candy Co. (See Carpenter Cook Co.)
Middle States Packing Corporation, Chicago, Ill. Canned fruits and vegetables, berries, succotash, and sliced pineapple. 244,166; July 17; Serial No. 262,011; published May 1, 1928. Class 46.
Mills, Robert D., jr., doing business as R. D. Mills Mfg. Co., Nashville, Tenn. Cigarette and match dispensers. 244,263; July 17; Serial No. 262,370; published May 1, 1928. Class 23.
Missouri Agricultural Publishing Company, St. Louis Mo. Merchandising publication. 244,298; July 17; Serial No. 263,171; published May 1, 1928. Class 38.
Mistletoe Creameries, Fort Worth, Tex. Milk. 244,433; July 17; Serial No. 251,784; published May 1, 1928. Class 46.
Mitchell, John R., & Son Inc., Brooklyn, N. Y. Powdered laundry soap. 244,301; July 17; Serial No. 263,250; published May 8, 1928. Class 4.
Mi-Tee-Fine Supply Co. (See Bloom, Leo.)
Mocotan Company, The, Newark, N. J. Artificial or imitation leather. 244,250; July 17; Serial No. 262,863; published Apr. 24, 1928. Class 50.
Morton Manufacturing Company, Chicago, Ill. Railway-car safety treads, etc. 244,358; July 17; Serial No. 260,900; published May 1, 1928. Class 19.
Motor-Kleen Corporation, Long Island City, N. Y. Fabric-cleaning liquid. 244,464; July 17. Class 4.
Mulvihill-Goodwine Company, doing business as Chesterfield Dry Ginger Ale Co., Chicago, Ill. Beverages, sirups, extracts, etc. 244,188; July 17; Ser. No. 263,506; published May 8, 1928. Class 45.
N. V. Nederlandsche Kunstzijdefabriek, Arahem, Netherlands. Thread and yarns. 244,371; July 17; Serial No. 254,502; published May 1, 1928. Class 43.
N. V. Nederlandsche Kunstzijdefabriek, Arnhem, Netherlands. Ribbons, materials, fabrics, knitted goods, etc. 244,372; July 17; Serial No. 254,500; published May 1, 1928. Class 42.
N. V. Nederlandsche Kunstzijdefabriek, Arnhem, Netherlands. Ribbons, materials, fabrics, knitted goods, etc. 244,377; July 17; Serial No. 254,147; published May 1, 1928. Class 42.
N. V. Nederlandsche Kunstzijdefabriek, Arnhem, Netherlands. Thread and yarns. 244,145; published May 1, 1928. Class 43.
N. V. Nederlandsche Kunstzijdefabriek, Arnhem, Netherlands. Thread and yarns. 244,422; July 17; Serial No. 254,506; published May 1, 1928. Class 43.
N. V. Nederlandsche Kunstzijdefabriek, Arnhem, Netherlands. Threads and yarns. 244,423; July 17; Serial No. 254,504; published May 1, 1928. Class 43.
N. Y. Mfg. Corp., also doing business as Ambassador Cap Company, New York, N. Y. Girls' hats. 244,503; July 17. Class 39.
National Enameling and Stamping Company, Milwaukee, Wis. Kerosene and gasoline stoves. 244,181; July 17; Serial No. 261,277; published May 8, 1928. Class 34.
Naumkeag Steam Cotton Company, Salem, Mass. Sheets and pillowcases and cotton piece goods. 244,410; July 17; Serial No. 263,780; published May 1, 1928. Class 42.
Neenah Paper Company, Neenah, Wis. Bond, ledger, and writing paper. 244,251; July 17; Serial No. 262,924; published Apr. 24, 1928. Class 37.
Nessler, Chicago, doing business as C. Nestle Co., New York, N. Y. Appliances for examining, testing, stretching and classifying hair. 244,268; July 17; Serial No. 262,244; published May 1, 1928. Class 26.
Nestle, C., Co. (See Nessler, Charles.)
New Era Optical Co., Chicago, Ill. Ophthalmic lenses. 244,277; July 17; Serial No. 220,565; published Nov. 23, 1926. Class 26.
Nichiro Gyogyo Kabushiki Kaisha, Tokyo, Japan. Canned fish, shellfish, beef, pork, chicken, and vegetables. 244,446; July 17; Serial No. 259,211; published May 1, 1928. Class 46.
Nobrega, Frank B., doing business as Central Chemical Company, Kansas City, Mo. Insecticides. 244,395; July 17; Serial No. 256,086; published May 8, 1928. Class 6.
Nu Blood Medicine Co., Newark, N. J. General tonic. 244,214; July 17; Serial No. 262,375; published May 1, 1928. Class 6.
Nu-Erb Medicine Company, New Haven, Conn. Compound. 244,343; July 17; Serial No. 260,131; published May 1, 1928. Class 6.
Nunn, Bush & Weldon Shoe Co., Milwaukee, Wis. Men's leather shoes. 244,501; July 17. Class 39.
Oconomowoc Canning Company, Oconomowoc, Wis. Canned vegetables. 244,196; July 17; Serial No. 263,325; published May 1, 1928. Class 46.
Ollendorff, Julian, New York, N. Y. Cartoon and comic strips of drawings, etc. 244,219; July 17; Serial No. 262,250; published Apr. 24, 1928. Class 38.
Palmer Corporation, The, Medford Oreg. and Chicago, Ill. Fresh pears and fresh deciduous fruits. 244,387-8; July 17; Serial Nos. 257,190-1; published May 8, 1928. Class 46.
Panama Mfg. Co., Inc., New York, N. Y. Cotton and woolen piece goods and combinations. 244,452; July 17; Serial No. 258,586; published Apr. 17, 1928. Class 42.
Pango Milk Chocolate Co., The, Toledo, Ohio. Sauces. 244,407; July 17; Serial No. 259,781; published May 1, 1928. Class 46.
Parfumerie St. Denis, New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 244,321; July 17; Serial No. 262,868; published May 8, 1928. Class 6.
Parker, Saul, doing business as Parker Watch Co., New York, N. Y. Watchcases, time recorders, clocks, etc. 244,474; July 17. Class 27.
Parks and Woolson Machine Company, Springfield, Vt. Machines for making and stamping textile fabrics. 244,201; July 17; Serial No. 263,227; published May 8, 1928. Class 23.
Peerless Soap Company, Inc., Camden, N. J. Cleanser and grease solvent. 244,437; July 17; Serial No. 250,634; published May 1, 1928. Class 4.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Leather dressing. 244,211; July 17; Serial No. 262,526; published Apr. 24, 1928. Class 4.
Perkins-Goodwin Company, New York, N. Y. Tissue paper. 244,250; July 17; Serial No. 262,927; published May 8, 1928. Class 37.
Permutit Company, The, New York, N. Y. Recording apparatus. 244,307; July 17; Serial No. 263,420; published May 1, 1928. Class 26.
Petroleum World Publishing Co., Los Angeles, Calif. Periodical. 244,308; July 17; Serial No. 263,421; published May 1, 1928. Class 38.
Philadelphia Badge Co. (See Abrahams, Julius.)
Pince Chemical Co., The. (See Thornton, Julian F.)
Pond's Extract Company, New York, N. Y. Cold cream. 244,400; July 17; Serial No. 255,467; published May 8, 1928. Class 6.
Pond's Extract Company, New York, N. Y. Vanishing cream. 244,401; July 17; Serial No. 255,466; published May 8, 1928. Class 6.
Portland Stove Foundry Company, Portland, Me. Stoves, ranges, dampers, fireplace throats, etc. 244,167; July 17; Serial No. 161,985; published May 8, 1928. Class 34.
Randolph Marketing Company, Riverside, Calif. Fresh citrus fruits and vegetables. 244,373; July 17; Serial No. 254,474; published May 8, 1928. Class 46.
Recepto Mfg. Co., Inc., New York, N. Y. Garbage and refuse receptacles, bread boxes, canisters, cans, etc. 244,361; July 17; Serial No. 260,956; published May 8, 1928. Class 2.
Recht & Rosenbaum, Inc., doing business as Empire Pickle Works, New York, N. Y. Kraut juice, dill pickles, chowchow, sweet gherkins, etc. 244,396; July 17; Serial 256,011; published May 1, 1928. Class 46.
Red River Grain Company Limited, Winnipeg, Manitoba, Canada. Cereal breakfast food. 244,421; July 17; Serial No. 254,561; published May 1, 1928. Class 46.
Reich, Bruno E., doing business as Willow Springs Laboratories, Spring Forest, Ill. Skin lotion. 244,309; July 17; Serial No. 263,426; published May 1, 1928. Class 6.
Reid, Robert A., doing business as David City Bottling Works, David City, Nebr. Beverages and sirups for making the same. 244,412; July 17; Serial No. 263,725; published May 8, 1928. Class 45.
Reischmann, M., & Sons, New York, N. Y. Desk tops and table tops. 244,432; July 17; Serial No. 252,289; published May 1, 1928. Class 32.
Reliable Typewriter & Adding Machine Corporation, Chicago, Ill. Calculating machines. 244,386; July 17; Serial No. 257,196; published May 8, 1928. Class 26.
Richlite Products Co., The, Cleveland, Ohio. Marshmallows. 244,284; July 17; Serial No. 241,678; published Dec. 27, 1927. Class 46.
Richmond-Chase Company, San Jose, Calif. Canned fruits and vegetables. 244,267; July 17; Serial No. 262,262; published May 8, 1928. Class 46.
Riverside & Dan River Cotton Mills, Inc., Danville, Va. Sheets, pillowcases, and sheetings. 244,364; July 17; Serial No. 262,770; published May 1, 1928. Class 42.
Riverside Fibre & Paper Co., Appleton, Wis. Bond paper. 244,248-9; July 17; Serial Nos. 262,932-3; published Apr. 24, 1928. Class 37.
Robb Laboratory. (See Winsborough, Robb M.)

Robins, G. S., & Company, St. Louis, Mo. Preparation for killing weevil. 244,231; July 17; Serial No. 261,651; published May 8, 1928. Class 6.
Robinson, George W., doing business as Robinson Manufacturing Co., West Orange, N. J. Tube, blow-out, and skive patches. 244,279; July 17; Serial No. 236,562; published May 8, 1928. Class 35.
Rodgerson, Septimus V., Montreal, Quebec, Canada. Toilet preparations. 244,285; July 17; Serial No. 241,844; published May 8, 1928. Class 6.
Rohner, Mary B., New York, N. Y. Lemon juice and oil. 244,218; July 17; Serial No. 262,263; published May 8, 1928. Class 46.
Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Salad oil, a cottonseed product. 244,362; July 17; Serial No. 260,957; published May 1, 1928. Class 46.
Rome Company, Inc., The, Chicago, Ill. Bed springs. 244,215; July 17; Serial No. 262,331; published May 1, 1928. Class 32.
Rose Brothers Company, Lancaster, Pa. Umbrellas and parasols. 244,406; July 17; Serial No. 259,783; published Apr. 3, 1928. Class 41.
Royal Packing Company, Los Angeles, Calif. Canned pimientos morrones, peeled red chili peppers, etc. 244,179; July 17; Serial No. 261,387; published May 8, 1928. Class 46.
Royal Railway Improvements Corporation, New York, N. Y. Railway supplies. 244,200; July 17; Serial No. 263,228; published May 8, 1928. Class 19.
Rusch, Adolphe, jr., doing business as A. Rusch Jr. Silk Mills, New York, N. Y. Silk goods in the piece. 244,409; July 17; Serial No. 263,831; published May 1, 1928. Class 42.
Safety Concrete Incinerator Company, Los Angeles, Calif. Rubbish incinerators and parts thereof. 244,359; July 17; Serial No. 260,914; published May 1, 1928. Class 34.
Seeger Refrigerator Company, St. Paul, Minn. Refrigerators. 244,418; July 17; Serial No. 255,034; published May 1, 1928. Class 31.
Selkow, Irving, doing business as Washington Barber Supply Co., New York, N. Y. Hair tonic. 244,476; July 17. Class 6.
Service Grocer Company, Inc., Detroit, Mich. Paper napkins, wax paper, etc. 244,270; July 17; Serial No. 262,128; published Apr. 24, 1928. Class 37.
Service Grocer Company, Inc., Detroit, Mich. Twine. 244,300; July 17; Serial No. 263,230; published May 1, 1928. Class 7.
Shellgram Company, The, Newark, N. J. Bird food. 244,176; July 17; Serial No. 261,528; published May 1, 1928. Class 46.
Sieloff Packing Company, St. Louis, Mo. Hams, bacon, lard, etc. 244,293; July 17; Serial No. 247,828; published May 8, 1928. Class 46.
Simpson, Wm., Sons & Co., Philadelphia, Pa. Piece goods. 244,259; July 17; Serial No. 262,824; published May 1, 1928. Class 42.
Skandia Furniture Company of Rockford, Illinois, The, Rockford, Ill. Desks, secretaries, bookcases, tables, etc. 244,316; July 17; Serial No. 263,623; published May 8, 1928. Class 32.
Sloan, Enny, Ridgefield, Conn. Books. 244,230; July 17; Serial No. 261,655; published Apr. 24, 1928. Class 38.
Smith, George E., doing business as Geo. E. Smith & Co., Twightwee, Ohio. Candy. 244,438; July 17; Serial No. 250,267; published May 8, 1928. Class 46.
Southern Dairies, Inc., Washington, D. C. Ice cream, water ice, sherbet, etc. 244,287-8; July 17; Serial Nos. 245,112-3; published May 8, 1928. Class 46.
Spicer Manufacturing Corporation, South Plainfield, N. J. Universal joints, flexible couplings, and parts thereof 244,168; July 17; Serial No. 261,844; published May 1, 1928. Class 23.
Spinach Products Co., Inc., Norfolk, Va. Food product. 244,217; July 17; Serial No. 262,269; published May 1, 1928. Class 46.
Splinterless Glass Company Limited, The, Teddington, England. Articles made from safety glass. 244,262; July 17; Serial No. 262,417; published May 8, 1928. Class 19.
Standard Auto Products Company. (See Swain, Fred.)
Standard Textile Products Company, The, New York, N. Y. Oilcloth and oilcloth table covers. 244,315; July 17; Serial No. 263,565; published May 8, 1928. Class 20.
Starr Knitting Mills, Inc., Pleasantville, N. J. Terry looped fabrics. 244,416; July 17; Serial No. 263,625; published May 1, 1928. Class 42.
Stevens, Chas. A., & Bros., Chicago, Ill. Articles of china, porcelain, and earthenware. 244,434; July 17; Serial No. 251,581; published May 1, 1928. Class 30.
Stevens, Walden-Worcester, Inc., Worcester, Mass. Wrenches. 244,193; July 17; Serial No. 263,443; published May 1, 1928. Class 23.
Strauss, Siegmund, Vienna, Austria. Apparatus for measuring the quantity of X rays, light rays, etc. 244,356; July 17; Serial No. 260,860; published May 1, 1928. Class 26.
Stroh Products Company, The, Detroit, Mich. Malt syrup. 244,385; July 17; Serial No. 257,454; published Apr. 3, 1928. Class 46.
Sullivan Co., The, Memphis, Tenn. Oil-well drilling compound. 244,467; July 17. Class 1.
Superintendents Forum, Inc., New York, N. Y. Monthly periodical. 244,305; July 17; Serial No. 263,358; published May 1, 1928. Class 38.
Sunset Produce Co., San Francisco, Calif. Fresh fruits and vegetables and dried fruits. 244,178; July 17; Serial No. 261,403; published May 1, 1928. Class 46.
Swain, Fred, doing business as Standard Auto Products Company, Ohio, Ill. Automobile tire and tube and top patches. 244,424; July 17; Serial No. 258,360; published May 8, 1928. Class 35.
Synthetic Nitrogen Products Corporation, New York, N. Y. Fertilizer. 244,368; July 17; Serial No. 262,535; published May 8, 1928. Class 10.
Synthetic Nitrogen Products Corporation, New York, N. Y. Fertilizer. 244,369; July 17; Serial No. 262,534; published May 1, 1928. Class 10.
Taina Trading Company, Inc., Los Angeles, Calif. Edible oils, canned fruits, canned vegetables, canned fish, etc. 244,468; July 17. Class 46.
Taormina Bros., New Orleans, La. Olive oil. 244,310; July 17; Serial No. 263,444; published May 8, 1928. Class 46.
Tasam Publishing Company. (See McGrath, Thomas S.)
Ternstedt Manufacturing Company, Detroit, Mich. Automobile body hardware. 244,391; July 17; Serial No. 256,843; published May 1, 1928. Class 25.
Ternstedt Manufacturing Company, Detroit, Mich. Automobile body hardware. 244,392; July 17; Serial No. 256,840; published May 1, 1928. Class 13.
Ternstedt Manufacturing Company, Detroit, Mich. Automobile body hardware. 244,393; July 17; Serial No. 256,839; published May 1, 1928. Class 19.
Thornton, Julian F., doing business as The Pince Chemical Co., Kinston, N. C. Antiseptics. 244,207; July 17; Serial No. 262,635; published May 1, 1928. Class 6.
Tribune Company, The, Chicago, Ill. Nom de plume for newspaper articles. 244,471; July 17. Class 38.
Trossy, Mickfeld H., doing business as Dr. M. H. Trossy, New York, N. Y. Creams, lotions, powders, etc. 244,425; July 17; Serial No. 245,597; published May 8, 1928. Class 6.
Turner & Vandam, Inc., New York, N. Y. Cotton, silk, etc. 244,408; July 17; Serial No. 263,842; published May 8, 1928. Class 42.
Tuttle & Bailey Manufacturing Company, New York and Brooklyn, N. Y. Warm-air heating and ventilating registers. 244,461; July 17; Serial No. 259,475; published May 1, 1928. Class 34.
Uneek Utilities Corporation, Chicago, Ill. Flour sifters. 244,402; July 17; Serial No. 255,361; published May 1, 1928. Class 23.
United Purchasing Co., Chicago, Ill. Malt syrup. 244,311; July 17; Serial No. 263,447; published May 8, 1928. Class 46.
Universal Auto Fabrics Mfg. Co., Chicago, Ill. Automobile seat covers. 244,360; July 17; Serial No. 261,919; published May 1, 1928. Class 19.
Virginia Dare Extract Co. Inc., Brooklyn, N. Y. Syrups, concentrates, and emulsions for making soft drinks. 244,276; July 17; Serial No. 191,108; published May 12, 1925. Class 45.
Ward-Owsley Co. Inc., Aberdeen, S. Dak. Candy. 244,456; July 17; Serial No. 258,441; published May 1, 1928. Class 46.
Washington Barber Supply Co. (See Selkow, Irving.)
Webe, John, and Russell D. White, Youngstown, Ohio. Fertilizers. 244,398; July 17; Serial No. 255,884; published May 8, 1928. Class 10.
Weickman Seat Co., New York, N. Y. Automobile spring seats. 244,295; July 17; Serial No. 248,802; published May 8, 1928. Class 19.
Weinberg, Ph., & Sons, New York, N. Y. Men's and young men's clothing. 244,491; July 17. Class 39.
Weinrich, A. F., doing business as Weinrich Pickle Co., Los Angeles, Calif. Canned and bottled pickles. 244,195; July 17; Serial No. 263,361; published May 8, 1928. Class 46.
Western Shade Cloth Company, The, Chicago, Ill. Window-shade cloth. 244,187; July 17; Serial No. 263,524; published May 1, 1928. Class 42.
Whiskette Mfg. Co., Philadelphia, Pa. Polishing device and paste. 244,314; July 17; Serial No. 263,525; published May 8, 1928. Class 4.
White, Abram, Charlotte, N. C. Polish. 244,312; July 17; Serial No. 263,450; published May 8, 1928. Class 4.
White Cloud Farms, Incorporated, Rock Tavern, N. Y. Fresh applies and pears, eggs, live and dressed poultry. 244,443; July 17; Serial No. 259,314; published May 1, 1928. Class 46.
White Company, The, assignor to The White Motor Company, Cleveland, Ohio. Automobiles and motor trucks. 244,286; July 17; Serial No. 243,634; published May 8, 1928. Class 19.
Wilkes Barre Maid Candy Company, Inc., Wilkes-Barre, Pa. Candy bar. 244,291; July 17; Serial No. 246,523; published May 10, 1927. Class 46.
Willow Springs Laboratories. (See Reich, Bruno E.)

Wilson-Martin Bottling Works, Inc., Rockville Center, N. Y. Mineral water, ginger ale, etc. 244,220; July 17; Serial No. 262,194; published May 8, 1928. Class 45.

Winsborough, Robb M., doing business as Robb Laboratory, Shreveport, La. Medicinal lotion and cream. 244,350; July 17; Serial No. 260,662; published May 1, 1928. Class 6.

Woodworth, Charles B., Binghamton, N. Y. Tire chains. 244,496; July 17. Class 13.

Wormalds & Walker, Limited, Dewsbury, England. Blankets and rugs. 244,170; July 17; Serial No. 261,727; published May 1, 1928. Class 42.

Wormalds & Walker, Limited, Dewsbury, England. Blankets and rugs. 244,171; July 17; Serial No. 261,726; published May 1, 1928. Class 42.

Worumbo Manufacturing Company, Bath, Me. Woolen goods in the piece. 244,186; July 17; Serial No. 263,527; published May 8, 1928. Class 42.

Wurlitzer Grand Piano Company, De Kalb, Ill. Pianos, player pianos, and piano players. 244,465–6; July 17. Class 36.

Yermak, William, Danbury, Conn. Beet pullers. 244,445; July 17; Serial No. 259,229; published May 1, 1928. Class 23.

Younger, William, & Co., Limited, Edinburgh, Scotland. Ale. 244,240; July 17; Serial No. 261,228; published May 1, 1928. Class 48.

Zellerbach Paper Company, San Francisco, Calif. Paper bags. 244,258; July 17; Serial No. 262,838; published May 1, 1928. Class 2.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Alma-Vita. (See Chase, Alma C.)

Anderson, G. H., estate, doing business as The Howard Fruit Company, by The Capital National Bank of Sacramento, trustee, San Jose, Calif. H. For fresh Pears. 34,292; July 17.

Annibale, Frank, doing business as Vi-Tex Co., Chicago, Ill. Vi-Tex. For Salve Used as a Remedy for Skin Affections. 34,293; July 17.

Bosch Aktiengesellschaft, Robert, Stuttgart, Germany. Bosch Windshield Wiper. For Windshield Wipers. 34,294; July 17.

Brown & Haley, Tacoma, Wash. Almond Roca. For a Confection. 34,296; July 17.

Brown, Julius M., Winthrop, Mass. Witch Hair Wash-All-in-One. For Toilet Preparation. 34,295; July 17.

California Almond Growers Exchange, San Francisco, Calif. California Almonds I X L. For Sheller Run Almonds. 34,297; July 17.

California Almond Growers Exchange, San Francisco, Calif. Vacuum Packed Toasted Almonds. For Almonds. 34,298; July 17.

California Almond Growers Exchange, San Francisco, Calif. Vacuum Packed Salted Almonds. For Almonds. 34,299; July 17.

Capital National Bank of Sacramento, trustee. (See Anderson, G. H., Estate.)

Castle Comfort Candy Co., Sanford, Me. Plantose Health Food Candies. For Candy. 34,300; July 17.

Chase, Alma C., doing business as Alma-Vita, Los Angeles, Calif. Radiant Glow Lotion. For a Cosmetic. 34,301; July 17.

Dameron, Evelyn C., Jackson, Miss. Evelyn Carlyle's Proved 2020 Prepared Scalp Massage Oil. For Scalp-Massage Oil. 34,302; July 17.

Dand-Off Co., The, Portland, Oreg. Dand-Off. For Dandruff Extermination. 34,303; July 17.

Feeser Macaroni Company, Harrisburg, Pa. Feeser's Golden Specialties. For Macaroni, Spaghetti, Noodles, and Similar Alimentary Food Products. 34,304; July 17.

Feeser Macaroni Company, Harrisburg, Pa. San-Filippo. For Macaroni. 34,305; July 17.

Frisch, Emile, Chicago, Ill. Frisch Process (Case 536). For Bread. 34,306; July 17.

Frisch, Emile, Chicago, Ill. Frisch Process (Case 539). For Bread. 34,307; July 17.

Frisch, Emile, Chicago, Ill. Frisch Process (Case 540). For Bread. 34,308; July 17.

Frisch, Emile, Chicago, Ill. Frisch Process (Case 542). For Bread. 34,309; July 17.

Frisch, Emile, Chicago, Ill. Frisch Process (Case 543). For Bread. 34,310; July 17.

Frisch, Emile, Chicago, Ill. Frisch Process (Case 545). For Bread. 34,311; July 17.

Frisch, Emile, Chicago, Ill. Frisch Process (Case 546). For Bread. 34,312; July 17.

Frohlich, Samuel D., New York, N. Y. Myranet For Hair Nets. 34,313; July 17.

Hayne, Levi, Philadelphia, Pa. Lindy Writing Paper No. 87. For Writing Paper. 34,314; July 17.

Hayne, Levi, Philadelphia, Pa. Lindy Writing Paper No. 86. For Writing Paper. 34,315; July 17.

Howard Fruit Company. (See Anderson, G. H., Estate.)

Kemp, Edward F., Somerville and Boston, Mass. E. F. Kemp, Salted Pistachios. For Salted Pistachios. 34,316; July 17.

Kemp, Edward F., Somerville and Boston, Mass. E. F. Kemp, Salted Filberts. For Salted Filberts. 34,317; July 17.

Kirkpatrick, Dr. Geo., Remedies Company, Portland, Oreg. Kirkpatrick Pul-Bro-Tu Remedies. For a Medicinal Preparation. 34,318; July 17.

Kirkpatrick, Dr. Geo., Remedies Company, Portland, Oreg. Kirkpatrick Rheugolt Remedies. For a Medicinal Preparation. 34,319; July 17.

Klever Kleaners, Columbus, Ohio. Klever Kleaner. For Detergent Preparation in Paste Form. 34,320; July 17.

La Famille Strudel Company. (See Millman, Harris.)

Lighthouse, Frank J., Rochester, N. Y. Original Lemon Grit Soap. For Lemon Grit Soap. 34,321; July 17.

Magic Discovery Co., Cicero, Ill. Magic Discovery. For Medicinal Preparation for the Treatment of the Scalp and Skin. 34,322; July 17.

McCaffrey, Charles G., doing business as Old Pilgrim Malt Extract Company, Pittsburgh, Pa. Old Pilgrim. For Malt Syrup. 34,323; July 17.

Millman, Harris, doing business as La Famille Strudel Company, Lakewood, Ohio. La Famille Strudel. For Confection. 34,324; July 17.

Old Pilgrim Malt Extract Company. (See McCaffrey, Charles G.)

Peppers Fruit Company, Los Angeles, Calif. Red Mule. For Fresh Oranges. 34,325; July 17.

Pyro Importing Company, Seattle Wash. Best Grade Shogun Firecrackers. For Firecrackers. 34,326; July 17.

Rex Research Corporation, Toledo, Ohio. Trump No. 1. For Trump Cleaner No. 1. 34,327; July 17.

Rex Research Corporation, Toledo, Ohio. Trump No. 2. For Trump Cleaner No. 2. 34,328; July 17.

Rex Research Corporation, Toledo, Ohio. Trump No. 3. For Trump Cleaner No. 3. 34,329; July 17;

Rex Research Corporation, Toledo, Ohio. Trump No. 4. For Trump Cleaner No. 4. 34,330; July 17.

Rex Research Corporation, Toledo, Ohio. Trump No. 5. For Trump Cleaner No. 5. 34,331; July 17.

Riley's Candy Shop, Los Angeles, Calif. S-O-D-A-N-U-T. For Candy. 34,332; July 17.

Rout, Theodore, doing business as Ted's Chili & Food Products Co., Chicago, Ill. Ted's Lilly. For Chili Powders. 34,333; July 17.

Rusconi, Fulgenzio C., Merced, Calif. Golden Bird. For Fresh Grapes. 34,334; July 17.

Schlosser, Louis, doing business as L. Schlosser & Company, Chicago, Ill. Melotone. For Melotone which is a Compound of Corn Sugar, Gelatine, Dextrose, Ash, Sodium Chloride, and Protein. 34,335; July 17.

Shirek & Hirsch, New York, N. Y. Style-Pep Mint. For Mints. 34,336; July 17.

Standard Industries, New York, N. Y. Air Mail Race. For an Aeroplane Playing Game. 34,337; July 17.

Stockwell, L. W., Company, Los Angeles, Calif. American Beauty. For Mattresses. 34,338; July 17.

Ted's Chili & Food Products Co. (See Rout, Theodore.)

Tractor Sales Company, The, Cleveland, Ohio. Model A Motor Oil. For Lubricating Oil. 34,339; July 17.

Vi-Tex Co. (See Annibale, Frank.)

Weakley, Willard, Hoquiam, Wash. Weakley's Pile Remedy. For Medicine For Piles. 34,340; July 17.

Western Grape Products Company, Inc., Los Angeles, Calif. Western Brand California Pure Concentrated Grape Syrup. For Grape Syrup. 34,341; July 17.

Young, W. F., Inc., Springfield, Mass. Absorbine Jr. For an Antiseptic Liniment. 34,342; July 17.

Yvette Co., New York, N. Y. Evera Permanent Waving Machine. For Permanent-Waving Machines. 34,343; July 17.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Flyer Manufacturing Company, Chicago, Ill. The Ambassador. For Toy Electrical Trains. 11,057; July 17.

American Flyer Manufacturing Company, Chicago, Ill. The Trail Blazer. For Toy Electrical Trains. 11,058; July 17.

American Flyer Manufacturing Company, Chicago, Ill. The Merchant. For Toy Electrical Trains. 11,059; July 17.

American Flyer Manufacturing Company, Chicago, Ill. The Explorer. For Toy Electrical Trains. 11,060; July 17.

American Flyer Manufacturing Company, Chicago, Ill. Little American. For Toy Electrical Trains. 11,061; July 17.

American Flyer Manufacturing Company, Chicago, Ill. The Statesman. For Toy Electrical Trains. 11,062; July 17.

American Flyer Manufacturing Company, Chicago, Ill. The Pocahontas. For Toy Electrical Trains. 11,063; July 17.

American Flyer Manufacturing Company, Chicago, Ill. The Mountaineer. For Toy Electrical Trains. 11,064; July 17.

American Flyer Manufacturing Company, Chicago, Ill. The President's Special. For Electrical Trains. 11,065; July 17.

American Flyer Manufacturing Company, Chicago, Ill. The Potomac. For Toy Electrical Trains. 11,066; July 17.

American Flyer Manufacturing Company, Chicago, Ill. The New Jeffersonian. For Toy Electrical Trains. 11,067; July 17.

American Flyer Manufacturing Company, Chicago, Ill. The Bluebird. For Toy Electrical Trains. 11,068; July 17.

American Flyer Manufacturing Company, Chicago, Ill. The Eagle. For Toy Electrical Trains. 11,069; July 17.

American Flyer Manufacturing Company, Chicago, Ill. The Hamiltonian. For Toy Electrical Trains. 11,070; July 17.

American Lead Pencil Company, Hoboken, N. J. Venus Pencils (C 76). For Pencils. 11,056; July 17.

Arden, Elizabeth, Inc., doing business as Elizabeth Arden, New York, N. Y. Introducing the Jowls. For Venetian Toilet Preparations. 11,071; July 17.

B. V. D. Company, Inc., The, New York, N. Y. This Red Woven Label. For Athletic Underwear. 11,072; July 17.

B. V. D. Company, Inc., The, New York, N. Y. Enjoy Nature's Cooling Processes. For Athletic Underwear. 11,073; July 17.

D & C Co. Inc., The, Wilmington, Del., and Brooklyn, N. Y. More—For Dessert—My-T-Fine. For Dessert Preparations. 11,074; July 17.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Good—Wingfoot—Year Truck Tires. For Tires Composed Wholly or in Part of Rubber. 11,075; July 17.

Goodyear Tire & Rubber Company Inc., The, Akron, Ohio. Good—Wingfoot—Year Tires. For Tires Composed Wholly or in Part of Rubber. 11,076; July 17.

Goodyear Tire & Rubber Company Inc., The, Akron, Ohio. Now Hearken—Ye Who Shoes Do Wear Behold You Auto Wheels You Too Can Walk as if on Air on Good—Wingfoot—Year Heels. For Heels Composed Wholly or in Part of Rubber. 11,077; July 17.

Goodyear Tire & Rubber Company Inc., The, Akron, Ohio. 'March On!' The Captain Shouted, 'March on!' The Bugle Peals, 'March On!' The Wise Ones Echo, On Good—Wingfoot—Year Wingfoot Heels. For Heels Composed Wholly or in Part of Rubber. 11,078; July 17.

Gould, Barbara, Ltd. New York, N. Y. The Art of Creative Beauty. For Cleansing Cream, Tissue Cream, Cold Cream, Vanishing Cream, Astringent Cream, Weather Cream, and Hand Cream. 11,079; July 17.

Hills Bros., San Francisco, Calif. You Fry Doughnuts a Few at a Time . . . For the Same Reason Hills Bros. Roast Their Coffee a Few Pounds at a Time. For Coffee. 11,080; July 17.

Hills Bros., San Francisco, Calif. The Ingredients of Good Pie Crust are Combined a Little at a Time . . . A Principle that Hills Bros. Follow in Roasting Coffee. For Coffee. 11,081; July 17.

Hills Bros., San Francisco, Calif. Your Search For Fine Coffee is at an End When You See Hills Bros' Arab. For Coffee. 11,082; July 17.

Hills Bros., San Francisco, Calif. Hills Bros' Principle of Roasting Coffee Agrees With The Important Rule in Making Biscuits. For Coffee. 11,083; July 17.

Hills Bros., San Francisco, Calif. Adding Milk a Little at a Time to The Flour Makes Delicious Gravy. For Coffee. 11,084; July 17.

Hills Bros., San Francisco, Calif. Perfect Muffin Batter Is Made By Mixing The Ingredients a Little At a Time . . . Hills Bros Practice The Same Principle In Roasting Coffee. For Coffee. 11,085; July 17.

Hills Bros., San Francisco, Calif. You Prove The Value Of Hills Bros' Rule In Roasting Coffee When You Add Cereal To Boiling Water a Little At a Time. For Coffee. 11,086; July 17.

Hills Bros., San Francisco, Calif. Watch The Chef Broil Chops—A Little At a Time On Each Side . . . Hills Bros Follow The Same Principle In Roasting Coffee. For Coffee. 11,087; July 17.

Hills Bros., San Francisco, Calif. Why Does The Coffee-Loving West Look For Hills Bros' Arab? For Coffee. 11,088; July 17.

Hills Bros., San Francisco, Calif. Hills Bros Coffee Is The Most Asked-For Coffee In The West. For Coffee. 11,089; July 17.

Hills Bros., San Francisco, Calif. Hills Bros Give The West The Constant Luxury Of Coffee With a Matchless Flavor. For Coffee. 11,090; July 17.

Hills Bros., San Francisco, Calif. You Pop Corn a Little At a Time And Hills Bros Roast Their Coffee The Same Way. For Coffee. 11,091; July 17.

Hills Bros., San Francisco, Calif. Griddle Cakes Are Best When The Flour And Milk Are Mixed a Little At a Time . . . Hills Bros Follow The Same Principle In Roasting Coffee. For Coffee. 11,092; July 17.

Hills Bros., San Francisco, Calif. The Secret Of Fine Cakes Is Mixing The Ingredients a Little At a Time . . . Hills Bros Observe The Same Principle In Roasting Coffee. For Coffee. 11,093; July 17.

Hills Bros., San Francisco, Calif. To Coffee Lovers The Greatest Discovery In The West Is Hills Bros' Process Of Controlled Roasting. For Coffee. 11,094; July 17.

Hills Bros., San Francisco, Calif. You Make Fine Mayonnaise By Adding The Oil a Little At a Time . . . Hills Bros Give You a Matchless Coffee By Following The Same Principle In Roasting Coffee. For Coffee. 11,095; July 17.

Hills Bros., San Francisco, Calif. A Good Cook Puts Up Fruit a Little At a Time . . . Hills Bros Follow The Same Principle In Roasting Coffee. For Coffee. 11,096; July 17.

Hills Bros., San Francisco, Calif. The Most Delicious French Fried Potatoes Are Cooked a Few At a Time . . . The Flavor Of Hills Bros Coffee Is The Result Of The Same Principle. For Coffee. 11,097; July 17.

Hills Bros., San Francisco, Calif. Rightly Is The West Proud Of Its Glorious Scenery And Its Famous Coffee—Hills Bros. For Coffee. 11,098; July 17.

Hills Bros., San Francisco, Calif. When The West Thinks of Coffee It Says 'Hills Bros'—The Coffee Roasted a Few Pounds at a Time. For Coffee. 11,099; July 17.

Hills Bros., San Francisco, Calif. As Sunshine Ripens Fruit to Perfection, Controlled Roasting Gives Hills Bros Coffee The Flavor of Flavors. For Coffee. 11,100; July 17.

Hills Bros., San Francisco, Calif. Your Rule of Adding Rice to the Water a Little at a Time is the Vital Principle in Hills Bros' Process of Roasting Coffee. For Coffee. 11,101; July 17.

Hills Bros., San Francisco, Calif. The Secret of Fine Candy-Making and the Roasting of Hills Bros. Coffee Depend Upon the Same Rule. For Coffee. 11,102; July 17.

Hills Bros., San Francisco, Calif. The Flavor of Hills Bros Coffee is as Distinctive as the Grandeur of the West. For Coffee. 11,103; July 17.

Hills Bros., San Francisco, Calif. Hills Bros Extended the Boundaries of Coffee Flavor When They Discovered Controlled Roasting. For Coffee. 11,104; July 17.

Hills Bros., San Francisco, Calif. Hills Bros Turned The Successful Rule for Waffles—A Little at a Time—Into an Exclusive Process of Roasting Coffee. For Coffee. 11,105; July 17.

International Controlled Lamp Co., The, Los Angeles, Calif. The Nights are Safer Now. For Dirigible Headlights. 11,106; July 17.

King, Harry W., doing business as King Card Company, Philadelphia, Pa. Fine Engraved Christmas Cards. For Christmas Cards in a Box. 11,107; July 17.

Marsh, Jordan, Company, Boston, Mass. The Future . . . And The Pastel. For Junior Misses' Apparel. 11,108; July 17.

Old Ben Coal Corporation, Chicago, Ill. Why a Hot Hen Lays More Eggs. For Coal. 11,109; July 17.

Roger & Gallet, New York, N. Y. Echoes of Fragrance. For Perfumes. 11,110; July 17.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

ABC Service, Chicago, Ill. Partially-printed forms, memorandum pads, note paper, etc. 259,786; July 17. Class 37.

Akro Agate Company, The, Clarksburg, W. Va. Glass balls. 264,797; July 17. Class 4.

Alfred, William H. L., doing business as Eaton & Deler, London, England. Silk fishing lines. 261,730; July 17. Class 22.

Alling, Wilbur M., doing business as W. M. Alling, New York, N. Y. Hosiery. 265,310; July 17. Class 39.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Alpha Delta Theta, Brooklyn, N. Y. Sorority pins, badges, charms, etc. 266,451; July 17. Class 28.
Aluminum Specialty Co., Atlanta, Ga. Phonographs. 267,179; July 17. Class 36.
American Coalinoil Corporation, New York, N. Y. Fuel oil. 254,119; July 17. Class 15.
Amplex Manufacturing Company, assignor to Fargo Motor Corporation, Detroit, Mich. Motor trucks and busses and their structural parts. 264,345; July 17. Class 19.
Andrews, Austin W., New York, N. Y. Table game. 265,824; July 17. Class 22.
Ansonia Clock Company, The, Brooklyn and New York, N. Y. 267,027; July 17. Class 27.
Arco Company, The, Cleveland, Ohio. Paint enamel. 265,357-8; July 17. Class 16.
Arrowsmith Manufacturing Company, New York, N. Y. Supports for the arches and other parts of the feet. 248,270; July 17. Class 44.
Auerbach Company, Salt Lake City, Utah. Cotton. 264,550; July 17. Class 1.
Automatic Merchandizer Inc., The, Boston, Mass. Vending machines. 248,950; July 17. Class 23.
Automatic Merchandizer Inc., The, Boston, Mass. Chocolate in bar form. 249,253; July 17. Class 46.
Avakian, Dr. V. A., Company, Chattanooga, Tenn. Beverages. 265,609; July 17. Class 45.
Ayer Company, The, Lowell, Mass. Cough medicines. 267,109; July 17. Class 6.
Baby Calculator Sales Company. (See Zewiske, Harold S.)
Bamberger, L., & Company, Newark, N. J. Millinery. 266,966; July 17. Class 39.
Bankers Life Company, Des Moines, Iowa. Weekly radio program. 266,705; July 17. Class 38.
Bartells, Raymond O., Milwaukee, Wis. Periodical. 266,781; July 17. Class 38.
Beauty Research Laboratories, Inc., Chicago, Ill. Skin salve preparations. 264,748; July 17. Class 6.
Berger Manufacturing Company, The, Canton, Ohio. Publication. 267,029; July 17. Class 38.
Bettoney, Harry, doing business as Candy-Bettoney Company, Boston, Mass. Clarinets and brass-wind musical instruments. 265,253; July 17. Class 36.
Birmingham Grinding Works. (See Womack, Henry B.)
Blotz-Henneman Seed Co., The, Clayton, N. Mex. Baby-chick scratch, chick starter, baby lima beans, etc. 266,236; July 17. Class 46.
Bluke Co., The. (See Swartz, Milton D.)
Boyle, John, & Company, Incorporated, New York, N. Y. Cotton duck. 266,237; July 17. Class 42.
Briggs, Charles H., doing business as Charles H. Briggs & Co., Chicago, Ill. Antiseptic chemical cleaner. 265,317; July 17. Class 4.
Brody Novelty Candy Package Co., Inc., New York, N. Y. Candy. 267,234; July 17. Class 46.
Brothers Corporation, New York, N. Y. Prepared medicine. 263,373; July 17. Class 6.
Brown, J. Goddard, Boston, Mass. Publication. 266,973; July 17. Class 38.
Buchanan, John, East Pittsburgh, Pa. Antifreeze solution. 267,831; July 17. Class 6.
Bucher, Charles A., Pittsburgh, Pa. Face powders and rouges. 264,221; July 17. Class 6.
Buchsbaum, S., & Co., Chicago, Ill. Finger rings, bar pins, brooches, etc. 261,858; July 17. Class 28.
Buckstaff Company, The, Oshkosh, Wis. Children's chairs, tables, and rocking-chairs. 258,458-9; July 17. Class 32.
Buffalo Flour Mills Corporation, Buffalo, N. Y. Wheat flour. 267,745; July 17. Class 46.
Burroughs Adding Machine Company, Detroit, Mich. Publication issued periodically. 266,645; July 17. Class 38.
Butterfield, Fred, & Co., Inc., New York, N. Y. Electric lamps and fixtures. 267,184; July 17. Class 21.
California Bleaching Water Co., San Francisco, Calif. Cottonseed salad oil. 264,015; July 17. Class 46.
Cannon Engineering Company, Jamaica, N. Y. Steam pressing irons, vaporizers, ironing boards, etc. 266,124; July 17. Class 24.
Carr Chemical Company, Coral Gables, Fla. Tablets. 266,646; July 17. Class 6.
Carson Pirie Scott & Co., Chicago, Ill. Cotton piece goods. 267,534; July 17. Class 42.
Certified Dog Remedies, Atlanta, Ga. Dog remedies. 259,620; July 17. Class 6.
Champlin Refining Company, Enid, Okla. Gasoline. 264,871; July 17. Class 15.
Charred Sticks Company. (See Wright, James L.)
Chemische Fabrik Jacobus G. m. b. H., Berlin-Charlottenburg, Germany. Chemical product. 263,859; July 17. Class 6.
Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics. 267,747-52; July 17, Class 42.
Chicago Flexible Shaft Company, Chicago, Ill. Electric andirons, grills, toaster stoves, etc. 267,038; July 17. Class 21.
Cohn & Rosenberger, Inc., New York, N. Y. Pearls, necklaces, bracelets, etc. 266,457; July 17. Class 28.
Cohn & Rosenberger, Inc., New York, N. Y. Pearls, necklaces, bracelets, etc. 266,913; July 17. Class 28.
Congoleum-Nairn, Inc. Kearny, N. J. Linoleum and cork carpet. 266,914; July 17. Class 20.
Consolidated Machine Tool Corporation of America, Rochester, N. Y. Drill chucks. 267,352; July 17. Class 23.
Coram, George M., doing business as Coram Brothers, Utica, N. Y. Lamp utilizing luminous substances. 264,018; July 17. Class 34.
Corduroy Tire Company, Grand Rapids, Mich. Automobile tires and inner tubes. 267,353; July 17. Class 35.
Cundy-Bettoney Company. (See Bettoney, Harry.)
Data Watch Company. (See Plaut, Joseph M.)
Del Monte, Abe, & Co., Inc., New York, N. Y. Hats. 262,448; July 17. Class 39.
Deming & Gould Co., Chicago, Ill., and South Bellingham, Wash. Canned salmon. 267,634-5; July 17. Class 46.
Dictograph Products Corporation, New York, N. Y. Acousticons, interior communicating telephone systems, etc. 249,514; July 17. Class 21.
Dor Vent Co., The. (See Weaver, Clark E.)
Draper-Maynard Company, The, Plymouth, N. H. Basketball shoes. 265,099; July 17. Class 39.
Drum, William S., doing business as W. S. Drum Company, Delhi, N. Y. Antiseptic preparation. 241,656; July 17. Class 6.
Dunne, Frank W., Co., Oakland, Calif. Specially-prepared varnish. 266,801; July 17. Class 16.
Duo-Iz Products Corp., The, Chicago, Ill. Glass, paints, lacquers, etc. 263,897; July 17. Class 16.
Du Pont Rayon Company, Buffalo, N. Y. Knitted and woven piece goods. 167,186; July 17. Class 42.
Du Pont Rayon Company, Buffalo, N. Y. Cellulose acetate yarns, threads, and filaments. 267,187; July 17, Class 43.
Easy-On Cap Company, The, Cleveland, Ohio. Closures. 264,366; July 17. Class 19.
Eaton & Deller. (See Alfred, William H. L.)
Endicott Johnson Corporation, Endicott, N. Y. Rubber soles and heels and rubber footwear. 265,371; July 17. Class 39.
Engel, Jacob, doing business as J. Engel & Company, Baltimore, Md. Ladies' wrist watches. 266,725; July 17. Class 27.
Evinrude Motor Company, Milwaukee, Wis. Outboard boat motors. 265,265; July 17. Class 23.
Exclusive Distributors' Association, The, Columbus, Ohio. Periodical publication. 267,189; July 17. Class 38.
Experimenter Publishing Company, Inc., New York, N. Y. Publication. 267,548; July 17. Class 38.
Experimenter Publishing Company, Inc., New York, N. Y. Publication. 267,550; July 17. Class 38.
Experimenter Publishing Company, Inc., New York, N. Y. Publication. 267,552; July 17. Class 38.
Fargo Motor Corporation, (See Amplex Manufacturing Company, Assignor.)
Fay, Eli F., Los Angeles, Calif. Battery separators. 253,877; July 17. Class 21.
Ferrara Canned Candy Co. Inc. Chicago, Ill. Candy. 266,365; July 17. Class 46.
Fisadco Limited, London, England. Fish cleaning, boning, and cutting machines, fish-slicing machines, etc. 260,498; July 17. Class 23.
Fitzgerald Manufacturing Company, The, Torrington, Conn. Sheet packing. 262,815; July 17. Class 35.
Food Materials Corporation, Chicago, Ill. Dyes. 266,521; July 17. Class 6.
Forman, L. C., & Sons, Inc., Pittsford, N. Y. Chili sauce, pickle relish, etc. 265,897; July 17. Class 46.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 266,309-10; July 17. Class 42.
Frank Tea & Spice Co., The, Cincinnati, Ohio. Spices, peanut butter, pepper sauce, etc. 254,907; July 17. Class 46.
Freeman, Sidney J., & Sons, New York, N. Y. Cigars. 264,371; July 17. Class 17.
Furolin Paint Mfg. Co., Inc., Chicago, Ill. Paints, varnishes, enamels, and stains. 265,204; July 17. Class 16.
General Cable Corporation, New York, N. Y. Electrical wires and cables. 265,788; July 17. Class 21.
Genting, A. H., Company, Philadelphia, Pa. Shoes. 241,613; July 17. Class 39.
Geraghty, Maurice P., Chicago, Ill. Articles consisting of a pressed-paper tube. 265,205; July 17. Class 7.
Gibson, Inc., Kalamazoo, Mich. Banjos. 266,524; July 17. Class 36.
Gibsonburg Lime Products Company, The, Gibsonburg, Ohio. Agricultural lime. 266,525; July 17. Class 10.
Glover, H. Clay, Co., Inc., New York, N. Y. Hair application and mange medicine. 266,590; July 17. Class 6.
Goessling and Ferre, Inc., New York, N. Y. Washable suede gloves. 263,819; July 17. Class 39.
Goldberg & Van Praag, New York, N. Y. Handkerchief. 258,226; July 17. Class 42.
Gold Rolled Food Products Co., Chicago, Ill. Egg noodles. 267,413; July 17. Class 46.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Good Value Hat & Cap Co., Inc., New York, N. Y. Hats and caps. 266,462; July 17. Class 39.
Gorse, Frank W., Co., Needham, Mass. Covered rubber thread. 265,379; July 17. Class 40.
Grant, J. E., doing business as Grant's Hygienic Food Products Company, Berkeley, Calif. Crackers, hygienic crackers, breakfast food, etc. 266,370; July 17. Class 46.
Grape Capsule Company, Inc., Allentown, Pa. Hygienic, prophylatic, and antiseptic preparation. 266,423; July 17. Class 6.
Great Western Stove Co., Leavenworth, Kans. Electric ranges. 265,839; July 17. Class 21.
Green, Charles W., New York, N. Y. Tissue-building preparation. 266,926; July 17. Class 6.
Gretsch, Fred, Mfg. Co., The, New York, N. Y. Cymbals. 263,083; July 17. Class 36.
Griffith-Durney Co., San Francisco, Calif. Canned fish. 260,269; July 17. Class 46.
Griggs, Cooper & Company, St. Paul, Minn. Roast beef, canned sea foods, tapioca, etc. 265,155; July 17. Class 46.
Gussaroff, Ida, doing business as The I-D-A Health-O-Gram Co. (Not Inc.), Grand Rapids, Mich. Electric health appliance belts. 266,028; July 17. Class 44.
Hamilton, Brown Shoe Company, St. Louis, Mo. Shoes. 257,541; July 17. Class 39.
Hart, E. J., & Co. Ltd., New Orleans, La. Ointment for local application for the treatment of chapped hands, etc. 266,990; July 17. Class 6.
Hartol Products Corporation, New York, N. Y. Oils and greases. 264,303; July 17. Class 15.
Harwood, Fulton, Brass & Aluminum Co., South Bend, Ind. Brass, aluminum, and bronze castings. 265,835; July 17. Class 14.
Hawaiian Pineapple Company, Ltd., San Francisco, Calif., and Iwilei, Hawaii. Canned fruits. 266,133; July 17. Class 46.
Hazen, Ben H., Co., Portland, Oreg. Advertising displays. 260,331; July 17. Class 50.
Helna Radio Corporation, Lang Island City, N. Y. Portable radio receiving sets and antennæ and loud speakers. 239,983; July 17. Class 21.
Helbein-Stone Company, Inc., doing business as Templar Watch Co., New York, N. Y. Watches, watchcases, and watch movements and parts of the same. 266,808; July 17. Class 27.
Hillerich & Bradsby Co., Louisville, Ky. Baseball bats. 266,935; July 17. Class 22.
Hillyard Chemical Company, St. Joseph, Mo. Floor finish, furniture cleaning, and polishing compound. 265,543; July 17. Class 16.
Hilscher, Sophie J., doing business at A. J. Hilscher, Baltimore, Md. Plants and flowers. 265,644; July 17. Class 1.
Holland Furnace Company, Holland, Mich. Coal, coke, wood, etc., furnaces. 264,107; July 17. Class 34.
Honigbaum, Harry H., doing business as The Rubber Roofing Co., New York, N. Y. Composition roofing. 257,066; July 17. Class 12.
Hoover Mfg. Co., New York, N. Y. Smocks, gowns, dresses, etc. 264,722; July 17. Class 39.
Howser Valve Tool Manufacturing Co., Laporte, Ind. Valve-reseating tools. 260,880; July 17. Claims 23.
Hudson Manufacturing Co., Minneapolis, Minn. Sprayers and spraying attachment. 265,647; July 17. Class 23.
I-D-A Health-O-Gram Co. (Not inc.), The. (See Gussaroff, Ida.)
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the Main, Germany. Chemical products for industrial, scientific, and photographic purposes. 256,180; July 17. Class 6.
I. G. Farbenindustrie Aktiengesellschaft, Leverkusen, near Cologne-on-the-Rhine, Germany. Stuffing agent. 266,588; July 17. Class 6.
Iceless Cooler Corporation, Chicago, Ill. Ice-cream cabinets. 262,961; July 17. Class 31.
Internationale Cacaofabrieken, Amsterdam, Netherlands. Powdered cocoa. 265,726; July 17. Class 46.
Inter-State Auto Parts Co., Inc., New York, N. Y. Automobile accessories. 243,313; July 17. Class 21.
Italian Food Products Co. Inc., Long Beach, Calif. Tomato paste. 250,544; Class 46.
Jacobsen Publishing Company, The, Chicago, Ill. Department or section of a magazine. 266,734; July 17. Class 38.
Jarrett Type Cleaner, Inc., New York, N. Y. Type cleaner. 266,605; July 17. Class 4.
Jergens, Andrew, Company, The, Cincinnati, Ohio. Perfume. 266,573; July 17. Class 6.
Johnson-Handley-Johnson Company, Grand Rapids, Mich. Wooden household furniture. 261,636; July 17. Class 32.
Jordan Foods Inc., also doing business as Jordan Inc., Chicago, Ill. Pumpernickel bread. 262,404; July 17. Class 46.
Kalbitzer Co. Packing Co., The, doing business as The Market Basket, Wheeling, W. Va. Coffee. 262,566; July 17. Class 46.
Kanrich & Feiner, New York, N. Y. Ladies' hats. 267,059; July 17. Class 39.
Kaufman & Ruderman Co. Inc., New York, N. Y. Earrings, finger rings, anklets, etc. 263,158; July 17. Class 28.
Keebler Weyl Baking Co., Philadelphia, Pa. Crackers, wafers, or biscuits. 264,885; July 17. Class 46.
Kelley Island Lime and Transport Company, The, Cleveland, Ohio. Hydrated lime. 265,276; July 17. Class 12.
Kelly, Geo. J., Lynn, Mass. Shoe-polish creams. 224,515; July 17. Class 4.
Kenney-Ellis Studios, Salem, Oreg. Photo prints. 264,794; July 17. Class 38.
Keystone Asphalt Products Company. (See Michael, Louis.)
Kickbusch, A., Grocery Company, Wausau, Wis. Toilet paper and writing tablets. 265,887; July 17. Class 37.
Kitchlew, Mohammend I., Chicago, Ill. Incense. 264,689; July 17. Class 6.
Kiebanoff & Grossman, New York, N. Y. Jewelry. 259,450; Class 28.
Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 264,825; July 17. Class 40.
Kotobukiya Company Limited, Osaka-Shi, Japan. Tooth powders, tooth pastes, etc. 260,180; July 17. Class 6.
Kounlas, George, Modesto, Calif. Fresh deciduous fruits. 267,365; July 17. Class 46.
Kregel, Ann K., Nebraska City, Nebr. 266,545; July 17, Class 46.
Kwong Qwong Chiy Co. (See Lain, Chin.)
Lain, Chin, doing business as Kwong Qwong Chiy Co., Canton, China, and as the Quong Chong Co., San Francisco, Calif. General tonic. 264,690; July 17. Class 6.
Laing Harrar & Chamberlin, Inc., Philadelphia, Pa. Steel shoe horns. 264,171; July 17. Class 40.
Laramie County Certified Seed Potato Growers Association, Egbert, Wyo. Seed potatoes. 264,893; July 17. Class 1.
Lea, David M., & Company, Inc., Richmond, Va. Monthly publication. 267,133; July 17. Class 38.
Lelong Lucien, Paris, France, assignor to Lucien Lelong, Inc., New York, N. Y. Toilet and bath soaps and shaving soap. 257,166; July 17. Class 4.
Lincoln Chocolate and Confectionary Company, Philadelphia, Pa. Candy bars. 251,623; July 17. Class 46.
Little Crow Milling Company, Warsaw, Ind. Pancake flour and buckwheat flour. 267,498; July 17. Class 46.
Livingston, Murray, New York, N. Y. Table game. 265,484; July 17. Class 22.
Lockwood, Brackett Co., Waltham, Mass. Soaps and shampoo-soap solutions. 242,956; July 17. Class 4.
Loeser, Frederick, and Co., Brooklyn, N. Y. Dresses. 267,002; July 17. Class 39.
Lorraine Manufacturing Company of New York, Inc., New York, N. Y. Textiles of cotton. 257,987; July 17. Class 42.
Luther, P. H., Los Angeles, Calif. Ladies' and misses' hats. 267,134; July 17. Class 39.
Mackewicz, John W., New Hanover Square, Pa. Antifreezing liquid. 262,366; July 17. Class 6.
Magnet Knitting Mills, Clinton, Tenn. Hosiery. 264,692; July 17. Class 39.
Mahady, E. F., Company, Boston, Mass. Medical and surgical instruments, apparatus, and parts thereof. 255,119; July 17. Class 44.
Manhattan Rubber Mfg. Co., The, Passaic, N. J. Bearings. 262,318; July 17. Class 23.
Manning, Bowman & Co., Meriden, Conn. Articles made of base metal. 265,553; July 17. Class 13.
Marathon Electric Manufacturing Company, Wausau, Wis. Electric fans, motors, polishing lathes, etc. 261,445; July 17. Class 21.
Market Basket, The. (See Kalbitzer, C., Packing Co., The.)
Masonite Corporation, Laurel, Miss. Fibre board, insulating board, etc. 265,873; July 17. Class 12.
Massachusetts Pie Baking Company, Fall River, Mass. Pies. 265,977; July 17. Class 46.
Max, George L., doing business as Maxine Products Co., Detroit, Mich. Perfumery, hand lotion, cold cream, etc. 267,369; July 17. Class 6.
Maxine Products Co. (See Max, George L.)
McCallum Hosiery Company, Northampton, Mass. Hosiery. 266,089; July 17. Class 39.
McIntosh, Pearl, Topeka, Kans. Preparation for permanent hair waving. 266,603; July 17. Class 6.
Meyer, M. J. & H. J., Co., New York, N. Y. Canned sardines, mushrooms, etc. 238,329; July 17. Class 46.
Michael, Louis, doing business as Keystone Asphalt Products Company, Philadelphia, Pa. Asphalt and asbestos fibre roofing compound. 259,963; July 17. Class 12.
Midland Company, The, South Milwaukee, Wis. Jointed clips for harness. 263,964; July 17. Class 3.
Midwest Publishing Co., Appleton, Wis. Publication. 267,266; July 17. Class 38.
Miller, Albert, & Company, Chicago, Ill. Fresh potatoes. 266,505; July 17. Class 46.

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Miller, I., and Sons, Incorporated, Long Island City, N. Y. Hosiery. 263,277; July 17. Class 39.
Minkus, Morris, New York, N. Y. Dictionaries, Bibles, and classics. 267,373; July 17. Class 38.
Mirror, The, New York, N. Y. Candies, bonbons, pastry, etc. 263,167; July 17. Class 46.
Mirror, The, New York, N. Y. Candies, bonbons, pastry, cakes, etc. 263,169; July 17. Class 46.
Montgomery Ward & Co. Incorporated. Chicago, Ill. Aluminum kitchen utensils. 258,479; July 17. Class 13.
Morrison, Frances H., Tampico, Mexico. Brassières, camisoles, and corsets. 266,873; July 17. Class 39.
Muscarello, August, Chicago, Ill. Medicinal preparation for the treatment of rheumatism, etc. 266,679; July 17. Class 6.
Naamlooze Vennootschap Glasfabriek "Leerdam," V. H. Jeekel, Mijnssen & Co., Leerdam, Netherlands. Glass and glassware. 267,899; July 17. Class 33.
Nandi, Sarat C., Detroit, Mich. Incense. 251,977; July 17. Class 6.
Napier Co., The, Meriden, Conn. Pyrophoric pocket lighters. 266,146; July 17. Class 34.
Nash-Breyer Motor Company, Los Angeles, Calif. Magazine. 267,269; July 17. Class 38.
National Gypsum Company, Buffalo, N. Y. Insulation. 265,396; July 17. Class 12.
National Magnesia Co. Inc., Brooklyn, N. Y. Laxatives. 266,472; July 17. Class 6.
National Provisioner, Inc., The, New York, N. Y. Publication. 267,443; July 17. Class 38.
Nelson-Eismann Co., The, Chicago, Ill. Typewriter ribbons. 266,740; July 17. Class 11.
Newman, L. & Sons, Inc., New York, N. Y. Corsets, corset and and brassière combinations, and brassières. 264,320; July 17. Class 39.
New Process Company, Warren, Pa. Neckties. 265,492; July 17. Class 39.
New York Canners, Inc., Rochester, N. Y. Canned fruits, canned vegetables, etc. 251,237; July 17. Class 46.
North German Lloyd, New York, N. Y. Illustrated monthly magazines. 264,253; July 17. Class 38.
Ocean Bathing Suit Co., The, New York, N. Y. Bathing suits. 266,552; July 17. Class 39.
Odor-Nox Chemical Co., Chicago, Ill. Foot deodorant. 267,074; July 17. Class 6.
Ohio Salt Company, The, Wadsworth, Ohio. Salt. 267,663; July 17. Class 6.
Okla Water Co., Ada, Okla. Saline laxative and aperient. 266,947; July 17. Class 6.
Old Dominion Tobacco Company, Inc., Norfolk, Va. Evaporated milk. 266,741; July 17. Class 46.
Paint Engineers, Inc., Chicago, Ill. Paints, lacquers, varnish, etc. 265,683; July 17. Class 16.
Palmer, Ralph M., New York, N. Y. Chemical preparation. 267,271; July 17. Class 6.
Palmolive-Peet Company, The, Chicago, Ill. Talcum powder. 262,768; July 17. Class 6.
Parrish, Robert E., doing business as The Parrish Drug Co., Bennington, Okla. Medicine. 265,289; July 17. Class 6.
Peck & Peck, New York, N. Y. Hosiery. 266,328; July 17. Class 39.
Pendleton Flour Mill Co., Pendleton, Oreg. Wheat flour. 266,556; July 17. Class 46.
Penn State Oil Company, Incorporated, Philadelphia, Pa. Oils. 264,044; July 17. Class 15.
Pennino, Oreste, doing business as Pennino Brothers, New York, N. Y. Jewelry. 255,025; July 17. Class 28.
Pennino, Oreste, doing business as Pennino Brothers, New York, N. Y. Jewelry. 255,044; July 17. Class 28.
Pennsylvania Rubber Company of America, Jeannette, Pa. Pneumatic vehicle tires. 267,450; July 17. Class 35.
Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Chlorinated lime. 265,400; July 17. Class 6.
Perugia, Andre, Paris, France. Boots and shoes. 260,138; July 17. Class 39.
Phillips Patents Limited, London, England. Soles and heels for boots and shoes. 266,399; July 17. Class 39.
Pinaud Incorporated, New York, N. Y. Hair tonic. 264,193-5; July 17. Class 6.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Plate glass. 266,952; July 17. Class 33.
Plaut, Joseph M., doing business as Data Watch Company, Cincinnati, Ohio. Watches. 265,983; July 17. Class 27.
Portland Packing Co., Portland, Me. Canned corn. 264,652; July 17. Class 46.
Practical Publications, Inc., Indianapolis, Ind. Trade journal. 265,344; July 17. Class 38.
Premier Cutlery, Inc., New York, N. Y. Manicure sets, manicure implements, and parts thereof. 266,748; July 17. Class 44.
Preservaline Manufacturing Co., The, Brooklyn, N. Y. Coloring for cheese, butter, etc. 267,275; July 17. Class 6.
Price Current-Grain Reporter, Chicago, Ill. Periodical. 267,211; July 17. Class 38.
Provandie, B. F., Chicago, Ill. Newspaper supplements. 266,270; July 17. Class 38.
Q R S Company, The, Chicago, Ill. Cameras and picture-projecting machines. 266,749; July 17. Class 26.
Quality Butter & Egg Co., Inc., New York, N. Y. Eggs. 266,953; July 17. Class 46.
Quong Chong Co. (See Laln, Chin.)
Radio Engineering Laboratories. (See Srebroff, Charles M.)
Raef, William S., doing business as Star Bottling Co., Dallas, Tex. Beverage and sirup and extract for making the same. 265,562; July 17. Class 45.
Rauh, Stanley E., New York, N. Y. Mirrors. 266,750; July 17. Class 32.
Reach, A. J., Company, Philadelphia, Pa. Wrist and ankle supporters, athletic supporters, and bandages. 264,653; July 17. Class 44.
Reach, A. J., Company, Philadelphia, Pa. Tennis-racket presses, tennis bags, tennis posts, etc. 264,655; July 17. Class 22.
Rea-Patterson Milling Company, The, Coffeyville, Kans. Wheat flour. 265,693; July 17. Class 46.
Regatta Manufacturing Company, Inc., Baltimore, Md. Athletic underwear. 265,806; July 17. Class 39.
Reis, Robert & Co., New York, N. Y. Running pants or shorts. 266,558; July 17. Class 39.
Rexsamer, Githens, & Co., Philadelphia, Pa. Coffee. 266,241; July 17. Class 46.
Roeding Fig & Olive Co., Fresno, Calif. Dried fruits. 267,461; July 17. Class 46.
Rogers, M. H., Inc., New York, N. Y. Textile washable rugs. 267,145; July 17. Class 42.
Roman Meal Company, Tacoma, Wash. Bread and cereal Products. 267,278; July 17. Class 46.
Rosenblatt, Albert, & Son, Inc., New York, N. Y. Dresses. 264,698; July 17. Class 39.
Royal Feed & Milling Company, doing business as Royal-Stafolife Mills, Memphis, Tenn. Corn meal and stock feeds. 266,830; July 17. Class 46.
Rubber Roofing Co., The. (See Honigbaum, Harry H.)
Rubin, Abraham, San Francisco, Calif. Hats. 265,068; July 17. Class 39.
St. Albans Grain Company, St. Albans, Vt. Feed for dairy stock. 263,174; July 17. Class 46.
St. Albans Grain Company, St. Albans, Vt. Horse feed. 263,175; July 17. Class 46.
St. Albans Grain Company, St. Albans, Vt. Feeds and dairy stock. 263,176; July 17. Class 46.
Saliger, Alois B., New York, N. Y. Talking machines. 267,391; July 17. Class 36.
Sample, Hallie L., Munice, Ind. Laxative medicines. 266,624; July 17. Class 6.
Samson Cordage Works, Boston, Mass. Cords and twines. 266,048; July 17. Class 7.
Sanitarium Equipment Company, Battle Creek, Mich. Therapeutic lamps. 265,503; July 17. Class 44.
Savoy Watch Co., Inc., New York, N. Y. Watches, watch-cases, watch movements, and parts thereof. 266,272; July 17. Class 27.
Schilling, A., & Co., San Francisco, Calif. Tea. 265,605; July 17. Class 46.
Scheonhofen Company, Chicago, Ill. Malt syrup. 266,625; July 17. Class 46.
Scott, Charles H. Co., The, Chicago, Ill. and New York, N. Y. Corset garment. 262,542; July 17. Class 39.
Security Warehouse and Investment Co., St. Louis, Mo. Whiskey for medicinal purposes. 267,446; July 17. Class 49.
Settel, Benjamin A., doing business as Settel Coffee and Spice Co., Gary, Ind. Coffee, tea, spices, etc. 266,149; July 17. Class 46.
Shaft-Pierce Shoe Co., Faribault, Minn. Shoes. 258,931; July 17. Class 39.
Shelby Cycle Company, The, Shelby, Ohio. Bicycles. 266,202; July 17. Class 19.
Shellabarger Mills & Elevator Company, doing business as Shellabarger Mills, Salina, Kans. Wheat flour. 258,599; July 17. Class 46.
Shellabarger Mills & Elevator Company, Salina, Kans. Bread. 267,085; July 17. Class 46
Sheridan-Clayton Paper Co., St. Joseph, Mo. Paper bags. 265,413; July 17. Class 2.
Shuttles Bros. & Lewis, Dallas, Tex. Finger rings of precious metal. 266,221; July 17. Class 28.
Silbermann, Kohn & Wallenstein Inc., New York, N. Y. Jewelry. 259,784; July 17. Class 28.
Silwo Silk Co. (See Zysman, Isadore.)
Sinclair, T. M., & Co. Ltd., Cedar Rapids, Iowa. Sliced bacon. 267,281; July 17. Class 46.
Skinner, Jordan C., doing business as Skinner Boot & Reliner Company, Dayton, Ohio. Boots and reliners for pneumatic tires. 194,953; July 17. Class 35.
Smith, Albert D., & Co., New York, N. Y. Cotton piece goods and shade cloth. 263,731; July 17. Class 42.
Smith, R. B., doing business as R. B. Smith & Co., Ogden, Utah. Mayonnaise dressing, relish spread, etc. 266,101; July 17. Class 46.
Societe Anonyme Donge, Courbevoie, France. Perfume, Face powder, talcum powder, etc. 266,279; July 17. Class 6.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Societe Anonyme Etablissements Mulvidson, Paris, France. Lixivial liquids and powders. 255,357; July 17. Class 4.
Societe Anonyme Eternit Emaille, Capelle-au-Bois, Belgium. Building materials. 261,331; July 17. Class 12.
Societe Anonyme pour tous Appareillages Mecaniques Levallois-Perret, France. Apparatus for delivering measured quantities of liquid. 267,396; July 17. Class 26.
Speidel Bros., Providence, R. I. Bracelets, chains, etc. 262,941; July 17. Class 28.
Srebroff, Charles M., doing business as Radio Engineering Laboratories, Long Island City, N. Y. Condensers, inductors, panels, etc. 257,713; July 17. Class 21.
Superior Paper Products Company, Carnegie, Pa. Corrugated-paper shipping containers. 265,996; July 17. Class 2.
Susquehanna Silk Mills, New York, N. Y. Silk piece goods. 266,897; July 17. Class 42.
Stakover Company, The. (See Zallio, John B.)
Standard Imports Limited, Montreal, Canada. Canned fruits, vegetables, tea, coffee, etc. 266,109; July 17. Class 46.
Star Bottling Co. (See Raef, William S.)
Steblisilks Corporation, New York, N. Y. Silk piece goods. 265,072-3; July 17. Class 42.
Sterling Shoes Corporation, Buffalo, N. Y. Shoes. 257,487; July 17. Class 39.
Stern, Louis J., New York, N. Y. Hosiery. 266,957; July 17. Class 39.
Swartz, Milton D., doing business as The Bluko Co., Baltimore, Md. Cleaning material. 266,497; July 17. Class 4.
Tea Time Food Products Company, Chicago, Ill. Southern relish, fruit conserves, etc. 264,335; July 17. Class 46.
Templar Watch Co. (See Helbein-Stone Company, Inc.)
Tiffany & Company, New York, N. Y. Shopping bags, chatelain bags, suitcases, etc. 267,094; July 17. Class 3.
Turner, John H., Stockton, Calif. Horse-radish. 266,565; July 17. Class 46.
Uncas Manufacturing Company, Providence, R. I. Key rings, chain fasteners, etc. 266,694; July 17. Class 28.
United Grape Products, Inc., Buffalo, N. Y. Grape syrup. 265,176; July 17. Class 45.
Universal Dental Company, Philadelphia, Pa. Artificial teeth. 265,817; July 17. Class 44.
Vermiliya Medicine Company, Bloomington, Ind. Vegetable tonic and blood purifier for laxative purposes. 267,100; July 17. Class 6.
Vining, Augustus G., Atlanta, Ga. Prophylactic rubber articles. 265,591; July 17. Class 44.
Wagner, Günther, Hanover, Germany. Inks and ink powders. 263,571; July 17. Class 11.
Warren Soap Manufacturing Company, Boston, Mass. Dry-cleaning soap preparation. 265,866; July 17. Class 4.
Washington Planograph Company, Inc., The, Washington, D. C. House organ. 267,328; July 17. Class 38.
Water Lock Company, The, Cincinnati, Ohio. Cement compound. 265,508-9; July 17. Class 12.
Watkins, J. R., Company, The, Winona, Minn. Round-worm capsules and tablets. 266,632; July 17. Class 6.
Weaver, Clark E., doing business as The Dor Vent Co., Kansas City, Mo. Ventilating hinges for doors, etc. 266,340; July 17. Class 13.
Wechter, S., Company, Chicago, Ill. Finger rings. 263,906; July 17. Class 28.
Weigl Furniture Company, Chicago, Ill. Davenport beds. 265,179; July 17. Class 32.
Weingarten Bros., Inc., New York, N. Y. Women's undergarments. 265,078; July 17. Class 39.
West Virginia Southern Coal Company, Huntington, W. Va. Coal. 266,289; July 17. Class 1.
Whelan, James F., Philadelphia, Pa. Night table and nursery lamps. 266,697; July 17. Class 21.
White Tar Company of New Jersey, Inc., The, Kearney, N. J. Garment bags of paper or cloth. 263,628; July 17. Class 2.
White Tar Company of New Jersey, Inc., The, Kearney, N. J. Candles. 263,630; July 17. Class 15.
Whitney-Eckstein Seed Co., Buffalo, N. Y. Lawn grass and field seeds. 266,067; July 17. Class 1.
Wickwire Spencer Steel Company, New York, N. Y. Reinforcing netting, concrete road mesh, etc. 266,068; July 17. Class 12.
Wiedeke, Gustav, Company, Dayton, Ohio. Tube and flue expanders, cutters, and beading tools. 267,473; July 17. Class 23.
Williams, Peter K., Columbus, Ohio. Wash mitten. 267,173; July 17. Class 42.
Williamson Heater Company, The, Cincinnati, Ohio. Electrically-driven air-circulating units for warm-air furnaces. 264,626; July 17. Class 34.
Womack, Henry B., doing business as Birmingham Grinding Works, Birmingham, Ala. Razors and razor blades. 266,069; July 17. Class 23.
Wright, James L., doing business as Charred Sticks Company, Atlanta, Ga. Charred sticks for purification of water, etc. 254,021; July 17. Class 50.
Zallio, John B., doing business as The Stakover Company, Chicago, Ill. Aluminum restaurant-service dish covers. 266,570; July 17. Class 13.
Zehner Packing Company, The, Bellevue, Ohio. Ham. 266,504; July 17. Class 46.
Zewiske, Harold S., doing business as Baby Calculator Sales Company, Chicago, Ill. Calculators. 266,114; July 17. Class 26.
Zinsmaster Bread Company, Duluth, Minn. Cakes, bread, rolls, and doughnuts. 257,911; July 17. Class 46.
Zysman, Isidore, doing business as Silvo Silk Co., New York, N. Y. Silk and silk and cotton and silk and wool mixture fabrics. 267,175; July 17. Class 42.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Compound, Oil-well drilling. Sullivan Co. 244,467; July 17.

CLASS 2.

Bags, Paper. Zellerbach Paper Company. 244,254; July 17; Serial No. 262,828; published May 1, 1928.
Boxes, Paper. Cambridge Paper Box Company. 244,184-5; July 17; Serial Nos. 263,535-6; published May 8, 1928.
Cases, Metallic shipping. O. C. Bowes. 244,351; July 17; Serial No. 260,671; published May 1, 1928.
Dishes, Paper. Crescent Paper Disk Co. 244,245; July 17; Serial No. 263,074; published May 1, 1928.
Receptacles, boxes, canisters, cans, etc. Recepto Mfg. Co. 244,361; July 17; Serial No. 260,956; published May 8, 1928.

CLASS 3.

Bags, key containers, etc. P. Centemeri & Co. 244,339; July 17; Serial No. 260,090; published June 26, 1928.
Bags, purses, pocketbooks, Hand. Madelon Modes, Inc. 244,271; July 17; Serial No. 262,103; published May 8, 1928.
Bags, suitcases, portfolios, pocketbooks, etc. P. Centemeri & Co. 244,340; July 17; Serial No. 260,095; published May 8, 1928.

CLASS 4.

Cleaning fluid. Klink Products Corporation. 244,337; July 17; Serial No. 263,707; published May 8, 1928.
Cleanser and grease solvent. Peerless Soap Company. 244,437; July 17; Serial No. 250,634; published May 1, 1928.
Cleansing liquid, Fabric. Motor-Kleen Corporation. 244,464; July 17.
Grinding compounds, Valve-. R. C. Harrison. 244,237; July 17; Serial No. 261,507; published Apr. 24, 1928.
Hone, Razor. R. C. Harrison. 244,236; July 17; Serial No. 261,508; published Apr. 24, 1928.
Leather dressing. J. C. Penney Company. 244,211; July 17; Serial No. 262,526; published Apr. 24, 1928.
Polish. Findlay & Cohen. 244,426; July 17; Serial No. 252,897; published May 8, 1928.
Polish, A. White. 244,312; July 17; Serial No. 263,450; published May 8, 1928.
Polish, Liquid metal. Chrome Liquid, Inc. 244,212; July 17; Serial No. 262,508; published Apr. 24, 1928.
Polish, Stove and metal. Great American Tea Co. 244,325; July 17; Serial No. 262,959; published Apr. 24, 1928.
Polishing device and paste. Whiskette Mfg. Co. 244,314; July 17; Serial No. 263,525; published May 8, 1928.
Powder, Washing. Limo Chemical Co. 244,223; July 17; Serial No. 262,034; published May 1, 1928.
Soap. Bourjois, Inc. 244,394; July 17; Serial No. 256,444; published May 1, 1928.
Soap. Marie Earle, Inc. 244,225; July 17; Serial No. 261,971; Apr. 24, 1928.
Soap. Richard Hudnut. 244,297; July 17; Serial No. 263,153; published May 8, 1928.
Soap flakes. H. Kohnstamm & Co. 244,345; July 17; Serial No. 260,280; published Apr. 24, 1928.
Soap or soap paste, Liquid. D. T. Products Co. 244,229; July 17; Serial No. 261,703; published May 8, 1928.
Soap powder. S. H. Allen. 244,322; July 17; Serial No. 262,884; published May 8, 1928.

Soap, Powdered laundry. John R. Mitchell & Son Inc. 244,301; July 17; Serial No. 263,250; published May 8, 1928.
Washing compound. Baker-Finley Chemical Company. 244,329; July 17; Serial No. 263,066; published Apr. 24, 1928.

CLASS 6.

Antiseptics. J. F. Thornton. 244,207; July 17; Serial No. 262,635; published May 1, 1928.
Astringents, astringent cerates, bleach creams, etc. Parfumerie St. Denis. 244,321; July 17; Serial No. 262,868; published May 8, 1928.
Chemicals, aldehydes, alcohols, etc. Heine & Co. 244,320; July 17; Serial No. 262,846; published May 8, 1928.
Cod-liver oil with malt and an extract rich in B vitamin, Palatable combination of. Eli Lilly and Company. 244,238; July 17; Serial No. 261,321; published May 8, 1928.
Compound. Nu-Erb Medicine Company. 244,343; July 17; Serial No. 260,131; published May 1, 1928.
Compound in flake form. D. Kirsch. 244,208; July 17; Serial No. 262,612; published May 8, 1928.
Compounds, Pickling. E. F. Houghton & Co. 244,480; July 17.
Cream, Cold. Pond's Extract Company. 244,400; July 17; Serial No. 255,467; published May 8, 1928.
Cream, Vanishing. Pond's Extract Company. 244,401; July 17; Serial No. 255,466; published May 8, 1928.
Creams, lotions, powders, etc. M. H. Trossy. 244,425; July 17; Serial No. 245,597; published May 8, 1928.
Detoxifying agent. Wm. S. Merrell Company. 244,397; July 17; Serial No. 256,002; published May 1, 1928.
Insecticides. L. Mandlak. 244,304; July 17; Serial No. 263,326; published May 8, 1928.
Insecticides. F. B. Nobrega. 244,395; July 17; Serial No. 256,086; published May 8, 1928.
Laxative tonics. A. W. Hurst. 244,306; July 17; Serial No. 263,403; published May 8, 1928.
Lemon mud pack, creams, brilliantine, etc. De-Luxe Specialty Co. 244,455; July 17; Serial No. 258,462; published May 1, 1928.
Liniments and cough syrups. L. N. Heibraun. 244,354; July 17; Serial No. 260,823; published May 1, 1928.
Lotion, Hair, scalp, and skin. Combeasy Co. Inc. 244,226; July 17; Serial No. 261,942; published May 8, 1928.
Lotion, Skin. B. E. Reich. 244,309; July 17; Serial No. 263,426; published May 1, 1928.
Lotion, talcum powder, perfume, toilet water, etc., Skin. Jaciel Perfumers, Inc. 244,235; July 17; Serial No. 261,511; published May 1, 1928.
Medicinal lotion and cream. R. M. Winsborough. 244,350; July 17; Serial No. 260,662; published May 1, 1928.
Medicinal preparations. J. Dunn. 244,281; July 17; Serial No. 239,975; published May 8, 1928.
Medicine. N. R. Freeman. 244,242; July 17; Serial No. 261,104; published May 1, 1928.
Medicine and tonic. Alexander. 244,204; July 17; Serial No. 262,687; published May 8, 1928.
Ointment. Hilf Products Company. 244,473; July 17.
Ointment preparation. Medi-Jell Products, Inc. 244,216; July 17; Serial No. 262,321; published May 1, 1928.
Perfumes, bath salts, powders, toilet water, creams, etc. D'Orsay Perfumeries Corporation. 244,381; July 17; Serial No. 253,317; published May 1, 1928.
Pharmaceutical preparation. P. R. Martinez. 244,224; July 17; Serial No. 261,972; published May 1, 1928.
Pharmaceutical preparations. Anso Company. 244,243; July 17; Serial No. 261,034; published May 8, 1928.
Powder, cuticle ice, nail polish, etc., Cuticle-removing. L. Bloom. 244,441; July 17; Serial No. 259,349; published May 1, 1928.
Preparation for killing weevil. G. S. Robins & Company. 244,231; July 17; Serial No. 261,651; published May 8, 1928.
Preparation for treating and preventing head colds, catarrh, etc. G. E. Petter. 244,444; July 17; Serial No. 259,240; published May 1, 1928.
Toilet preparations. S. V. Rodgerson. 244,285; July 17; Serial No. 241,844; published May 8, 1928.
Tonic, General. Nu Blood Medicine Co. 244,214; July 17; Serial No. 262,375; published May 1, 1928.
Tonic, Hair. I. Selkow. 244,476; July 17.
Tooth paste, powder, and wash, dental floss, etc. Lufric Co. 244,227; July 17; Serial No. 261,888; published May 8, 1928.
Water softener. Hygienic Products Company. 244,427; July 17; Serial No. 252,846; published May 8, 1928.

CLASS 7.

Rope of vegetable fiber. Columbian Rope Company. 244,234; July 17; Serial No. 261,554; published May 8, 1928.
Twine. Service Grocer Company. 244,300; July 17; Serial No. 263,230; published May 1, 1928.
Twine and household cord. Gripsit Corporation. 244,439; July 17; Serial No. 248,899; published May 8, 1928.
Twines. Hughes Fawcett Inc. 244,404; July 17; Serial No. 259,958; published May 1, 1928.

CLASS 9.

Matches. Jönköpings och Vulcans Tändsticksfabriksaktiebolag. 244,326; July 17; Serial No. 262,964; published May 1, 1928.

CLASS 10.

Fertilizer. Synthetic Nitrogen Products Corporation. 244,368; July 17; Serial No. 262,535; published May 8, 1928.
Fertilizer. Synthetic Nitrogen Products Corporation. 244,369; July 17; Serial No. 262,534; published May 1, 1928.
Fertilizers. John Webe and Russell D. White. 244,398; July 17; Serial No. 255,884; published May 8, 1928.

CLASS 12.

Board, Gypsum wall. M. N. Cartier & Sons Company. 244,472; July 17.
Board, thermal insulating board, composite board, etc., Fiber. Masonite Corporation. 244,487; July 17.

CLASS 13.

Chains, Tire. C. B. Woodworth. 244,496; July 17.
Covers, Cast-metal manhole. W. S. Frame. 244,457; July 17; Serial No. 258,173; published May 8, 1928.
Hardware, Automobile body. Ternstedt Manufacturing Company. 244,392; July 17; Serial No. 256,840; published May 1, 1928.
Valves and parts thereof, Metal. Edward Valve and Manufacturing Co. 244,294; July 17; Serial No. 248,164; published May 8, 1928.

CLASS 17.

Cigarettes and smoking tobacco. G. M. Leinbach. 244,182; July 17; Serial No. 261,269; published May 8, 1928.

CLASS 19.

Articles made from safety glass. Splinterless Glass Company Limited. 244,262; July 17; Serial No. 262,417; published May 8, 1928.
Automobile seat covers. Universal Auto Fabrics Mfg. Co. 244,360; July 17; Serial No. 261,919; published May 1, 1928.
Automobile spring seats. Weickman Seat Co. 244,295; July 17; Serial No. 248,802; published May 8, 1928.
Automobiles and motor trucks. White Company. 244,286; July 17; Serial No. 243,634; published May 8, 1928.
Awnings, Automobile. Bracken & Jones Auto Awning Co. 244,479; July 17.
Boats, Motor. Down East Boat Corporation. 244,370; July 17; Serial No. 262,511; published May 8, 1928.
Car safety treads, etc., Railway. Morton Manufacturing Company. 244,358; July 17; Serial No. 260,900; published May 1, 1928.
Flying machines and wings, vanes, etc. Cierva Autogiro Co. Ltd. 244,292; July 17; Serial No. 247,521; published May 8, 1928.
Hardware, Automobile body. Ternstedt Manufacturing Company. 244,393; July 17; Serial No. 256,839; published May 1, 1928.
Propellers and propeller parts, etc. J. H. Farish. 244,450; July 17; Serial No. 258,735; published May 1, 1928.
Railway supplies. Royal Railway Improvements Corporation. 244,200; July 17; Serial No. 263,228; published May 8, 1928.

CLASS 20.

Oilcloth and oilcloth table covers. Standard Textile Products Company. 244,315; July 17; Serial No. 263,565; published May 8, 1928.

CLASS 23.

Choppers, pruners, snips, etc. Henkel-Clauss Co. 244,413; July 17; Serial No. 263,701; published May 8, 1928.
Conveyors, elevators, monorails, trolleys, etc. Mechanical Handling Systems, Incorporated. 244,357; July 17; Serial No. 260,898; published May 8, 1928.
Dispensers, Cigarette and match. R. D. Mills, jr., 244,263; July 17; Serial No. 262,370; published May 1, 1928.
Drills, Rock. Kilborn & Bishop Company. 244,164; July 17, Serial No. 262,309; published May 8, 1928.
Heat exchangers and parts thereof. Griscom Russell Company. 244,440; July 17; Serial No. 259,443; published May 1, 1928.
Horns for automobiles. Illinois Brass Manufacturing Co. 244,282; July 17; Serial No. 240,548; published Jan. 4, 1927.
Joints, flexible couplings, and parts thereof, Universal. Spicer Manufacturing Corporation. 244,168; July 17; Serial No. 261,844; published May 1, 1928.
Machines, Dishwashing. J. J. Kehoe. 244,346; July 17, Serial No. 260,391; published May 1, 1928.
Machines for cutting and punching sheet metal, Andrew C. Campbell, Incorporated. 244,283; July 17; Serial No. 240,803; published May 1, 1928.
Machines for making pocket mirrors and similar articles. J. Abrahams. 244,419; July 17; Serial No. 254,954; published May 8, 1928.

Machines for marking and stamping. Parks and Woolson Machine Company. 244,201; July 17; Serial No. 263,227; published May 8, 1928.
Pasteurizers. Jensen Creamery Machinery Company. 244,261; July 17; Serial No. 262,462; published May 8, 1928.
Printing machines. Addressograph Company. 244,504; July 17; Serial No. 266,179; published June 26, 1928.
Pullers, Beet. W. Yermak, 244,445; July 17; Serial No. 259,229; published May 1, 1928.
Sewing machines. Jordan Marsh Company. 244,266; July 17; Serial No. 262,309; published May 8, 1928.
Sifters, Flour. Uneek Utilities Corporation. 244,402; July 17; Serial No. 255,361; published May 1, 1928.
Spray attachments. P. A. Geier Company. 244,174; July 17; Serial No. 261,563; published May 8, 1928.
Spray guns, Paint. Joy-Kelsey Corporation. 244,477; July 17.
Wrenches. Stevens Walden-Worcester, Inc. 244,193; July 17; Serial No. 263,443; published May 1, 1928.

CLASS 24.

Washing machines. Laundry. Altorfer Bros. Company. 244,349; July 17; Serial No. 260,612; published May 8, 1928.

CLASS 25.

Banks or coin receptacles, Savings. L. A. Henter 244,264; July 17; Serial No. 262,360; published May 1, 1928.
Banks, Portable savings. Gear Robinson Corporation. 244,194; July 17; Serial No. 263,387; published May 8, 1928.
Hardware, Automobile body. Ternstedt Manufacturing Company. 244,391; July 17; Serial No. 256,843; published May 1, 1928.

CLASS 26.

Appliances for examining, testing, stretching, and classifying hair. C. Nessler. 244,268; July 17; Serial No. 262,244; published May 1, 1928.
Calculating machines. Reliable Typewriter & Adding Machine Corporation. 244,386; July 17; Serial No. 257,196; published May 8, 1928.
Cameras and parts therefor. I. G. Farbenindustrie Aktiengesellschaft. 244,454; July 17; Serial No. 258,464; published May 1, 1928.
Device for simultaneously indicating cut-off and speed of steam engines. Cut-Off & Speed Recorder Corporation. 244,169; July 17; Serial No. 261,795; published May 8, 1928.
Lenses, Ophthalmic. New Era Optical Co. 244,277; July 17; Serial No. 220,565; published Nov. 23, 1926.
Measuring the quantity of X rays, light rays, etc., Apparatus for. S. Strauss. 244,356; July 17; Serial No. 260,860; published May 1, 1928.
Picture-theatre equipment, Motion-. E. E. Fulton Co. 244,180; July 17; Serial No. 261,311; published May 1, 1928.
Pumps, Self-measuring liquid-dispensing. Dayton Pump & Manufacturing Company. 244,451; July 17; Serial No. 258,622; published May 8, 1928.
Recording apparatus. Permutit Company. 244,307; July 17; Serial No. 263,420; published May 1, 1928.

CLASS 27.

Watchcases, time recorders, clocks, etc. S. Parker. 244,474; July 17.
Watch movements and cases. L. Adels. 244,470; July 17.

CLASS 28.

Necklaces. Lanson Co. Inc. 244,463; July 17.

CLASS 30.

China, porcelain, and earthenware, Articles of. Chas A. Stevens & Bros. 244,434; July 17; Serial No. 251,581; published May 1, 1928.

CLASS 31.

Refrigerators. Seeger Refrigerator Company. 244,418; July 17; Serial No. 255,034; published May 1, 1928.

CLASS 32.

Bed springs. Rome Company. 244,215; July 17; Serial No. 262,331; published May 1, 1928.
Cabinets, Shoe-shine. Griffin Manufacturing Company. 244,302; July 17; Serial No. 263,264; published May 1, 1928.
Desk and table tops. M. Reischmann & Sons. 244,432; July 17; Serial No. 252,289; published May 1, 1928.
Desks, chests of drawers, bookcases, etc. Skandia Furniture Company of Rockford, Illinois. 244,316; July 17; Serial No. 263,623; published May 8, 1928.
Frames, Picture. Cameo Frame Company. 244,319; July 17; Serial No. 262,841; published May 8, 1928.
Mattresses, bed springs, cushions, and pillows. Ellison Furniture & Carpet Co. 244,399; July 17; Serial No. 255,503; published May 8, 1928.
Racks, Clothing. A. L. Austrian. 244,405; July 17; Serial No. 259,937; published May 1, 1928.
Screens, Radiator. I. Jackson. 244,318; July 17; Serial No. 262,714; published May 8, 1928.

CLASS 33.

Crystals, Watch. P. B. Davis. 244,429; July 17; Serial No. 252,820; published May 1, 1928.
Glass. W. P. Fuller & Co. 244,458; July 17; Serial No. 257,976; published May 8, 1928.

CLASS 34.

Incinerators and parts thereof, Rubbish. Safety Concrete Incinerator Company. 244,359; July 17; Serial No. 260,914; published May 1, 1928.
Ranges and parts thereof, Gas. Cribben & Sexton Co. 244,374; July 17; Serial No. 254,385; published May 1, 1928.
Registers, Warm-air heating and ventilating. Tuttle & Bailey Manufacturing Company. 244,461; July 17; Serial No. 259,475; published May 1, 1928.
Screens, Air-filtering. Air Filtration Corporation. 244,380; July 17; Serial No. 253,732; published May 8, 1928.
Stoves, Kerosene and gasoline. National Enameling and Stamping Company. 244,181; July 17; Serial No. 261,277; published May 8, 1928.
Stoves, ranges, dampers, fireplace throats, etc. Portland Stove Foundry Company. 244,167; July 17; Serial No. 261,985; published May 8, 1928.

CLASS 35.

Hose, Conducting. Goodall Rubber Company. 244,241; July 17; Serial No. 261,110; published May 1, 1928.
Hose, Conducting. B. F. Goodrich Company. 244,222; July 17; Serial No. 262,078; published May 1, 1928.
Patches, Automobile tire, tube, and top. F. Swain. 244,424; July 17; Serial No. 258,360; published May 8, 1928.
Patches, Tube, blow-out, and skive. G. W. Robinson. 244,279; July 17; Serial No. 236,562; published May 8, 1928.
Tire covers. Hupp Motor Car Corporation. 244,328; July 17; Serial No. 263,042; published May 1, 1928.
Tire covers, Illuminated. Ero Manufacturing Co. 244,213; July 17; Serial No. 262,394; published May 1, 1928.
Tires and inner tubes therefor, Automobile. Chicago Mail Order Company. 244,205; July 17; Serial No. 262,647; published May 8, 1928.

CLASS 36.

Pianos, player pianos, and piano players. Wurlitzer Grand Piano Company. 244,465–6; July 17.

CLASS 37.

Binding for bank checks, etc. Benjamin D. Benson & Sons, Inc. 244,379; July 17; Serial No. 253,978; published May 1, 1928.
Envelopes, catalogs, and booklets. Buffalo Envelope Company. 244,417; July 17; Serial No. 255,094; published May 8, 1928.
Envelopes for carrying correspondence, etc. Buffalo Envelope Company. 244,403; July 17; Serial No. 255,095; published May 8, 1928.
Filing systems or equipments, Supplies for. G. J. Aigner. 244,459; July 17; Serial No. 257,847; published May 1, 1928.
Forms, Printed blank. Gilman Fanfold Corporation, Ltd. 244,428; July 17; Serial No. 252,834; published Nov. 1, 1927.
Paper, blotting paper, etc., Cover. District of Columbia Paper Manufacturing Company. 244,384; July 17; Serial No. 257,789; published May 1, 1928.
Paper, Bond. Riverside Fibre & Paper Co. 244,248–9; July 17; Serial Nos. 262,932–3; published Apr. 2, 1928.
Paper, Bond, ledger, and writing. Meenah Paper Company. 244,251; July 17; Serial No. 262,924; published Apr. 24, 1928.
Paper, Book. Kansas City Paper House. 244,247; July 17; Serial No. 262,966; published Apr. 24, 1928.
Paper napkins, wax paper, etc. Service Grocer Company. 244,270; July 17; Serial No. 262,128; published Apr. 24, 1928.
Paper, Shredded. Glittertrim Company. 244,447 July 17; Serial No. 258,990; published May 1, 1928.
Paper, Tissue. Perkins-Goodwin Company. 244,250; July 17; Serial No. 262,927; published May 8, 1928.
Paper, Toilet. Finkel Paper Company. 244,348; July 17; Serial No. 260,563; published May 1, 1928.
Paper, Waxed and toilet. Great American Tea Co. 244,430; July 17; Serial No. 252,381; published Apr. 24, 1928.
Paper, Writing and printing. International Paper Company. 244,290; July 17; Serial No. 246,479; published May 8, 1928.
Pencils, ink pencils, etc., Lead. A. W. Faber Inc. 244,177; July 17; Serial No. 261,496; published May 1, 1928.
Registers, Manifolding. Autographic Register Company. 244,289; July 17; Serial No. 245,184; published May 17, 1928.

CLASS 38.

Books. E. Sloan. 244,230; July 17; Serial No. 261,655; published Apr. 24, 1928.

Cartoons and comic strips of drawings, etc. J. Ollendorff. 244,219; July 17; Serial No. 262,250; published Apr. 24, 1928.
Magazine. F. N. Doubleday. 244,442; July 17; Serial No. 259,326; published May 1, 1928.
Magazine. Glidden Company. 244,239; July 17; Serial No. 261,254; published Apr. 24, 1928.
Magazine. Keystone Publishing Company. 244,228; July 17; Serial No. 261,883; published May 1, 1928.
Mottoes, Gift. Buzza Company. 244,469; July 17.
Newspape articles, Nom de plume for. Tribune Company. 244,471; July 17.
Periodical. Gage Publishing Company. 244,330; July 17; Serial No. 263,081; published May 1, 1928.
Periodical. T. S. McGrath. 244,303; July 17; Serial No. 263,276; published May 1, 1928.
Periodical. Petroleum World Publishing Co. 244,308; July 17; Serial No. 263,421; published May 1, 1928.
Periodical, Monthly. Superintendents Forum, Inc. 244,305; July 17; Serial No. 263,358; published May 1, 1928.
Periodical or trade paper, Monthly printed. Federated Business Publications, Inc. 244,233; July 17; Serial No. 261,559; published Apr. 24, 1928.
Publication, Merchandising. Missouri Agriculaural Publishing Company. 244,298; July 17; Serial No. 263,171; published May 1, 1928.
Publication, Weekly. Looseleaf Education, Inc. 244,420; July 17; Serial No. 254,921; published Apr. 24, 1928.

CLASS 39.

Clothing, Men's and young men's. Ph. Weinberg & Sons. 244,491; July 17.
Garments, dresses, hosiery, etc., Fur. Lanson Co. Inc. 244,462; July 17.
Gloves, Leather and canvas. Coshocton Glove Company. 244,500; July 17.
Hats, Girls'. N. Y. Mfg. Corp. 244,503; July 17.
Hosiery. Heyman & Bissinger Co. 244,498; July 17.
Raincoats and slickers. B. Fligel. 244,497; July 17.
Shirts. S. Liebovitz & Sons, Inc. 244,499; July 17.
Shirts, hosiery, sweaters, etc. J. F. Beall Dry Goods Co. 244,502; July 17.
Shoes. Cushman-Hollis Company. 244,495; July 17.
Shoes. Lema & Co. 244,489–90; July 17.
Shoes, Men's leather. Nunn, Bush & Weldon Shoe Co. 244,501; July 17.
Suits and overcoats, Men's and boys'. Crawford's Clothes Inc. 244,488; July 17.
Suits, Men's and young men's. Goodman & Suss, Inc. 244,494; July 17.
Sweaters, bathing suits, coats, suits, and dresses. G. Aftergood. 244,493; July 17.

CLASS 41.

Umbrellas and parasols. Liberty Umbrella Company. 244,478; July 17.
Umbrellas and parasols. Rose Brothers Company. 244,406; July 17; Serial No. 259,783; published Apr. 3, 1928.

CLASS 42.

Blankets. Beacon Manufacturing Company. 244,199; July 17; Serial No. 253,256; published May 1, 1928.
Blankets and rugs. Wormalds & Walker, Limited. 244,170; July 17; Serial No. 261,727; published May 1, 1928.
Blankets and rugs. Wormalds & Walker, Limited. 244,171; July 17; Serial No. 261,726; published May 1, 1928.
Cloth, Book. Holliston Mills Inc. 244,191; July 17; Serial No. 263,470; published May 8, 1928.
Cloth, Window-shade. Western Shade Cloth Company. 244,187; July 17; Serial No. 263,524; published May 1, 1928.
Cotton and woolen piece goods and combinations. Panama Mfg. Co. 244,452; July 17; Serial No. 258,586; published Apr. 17, 1928.
Cotton ducks and drills, awning stripe, and ticking. John Boyle & Company Incorporated. 244,481–6; July 17.
Cotton piece goods. Carter Dry Goods Co. 244,414; July 17; Serial No. 263,087; published May 1, 1928.
Cotton, silk, etc. Turner & Vandam Inc. 244,408; July 17; Serial No. 263,842; published May 8, 1928.
Covers, Removable textile seat. S. E. Hyman Company. 244,355; July 17; Serial No. 260,827; published May 8, 1928.
Fabrics and cloth of silk, rayon, wool, cotton, etc. Carafiol-Silverman Garment Co. 244,246; July 17; Serial No. 263,033; published May 1, 1928.
Fabrics in the piece and cut lengths, Pile. Collins and Aikman Corporation. 244,198; July 17; Serial No. 263,259; published May 1, 1928.
Fabrics in the piece, Woven, knitted, netted, textile, and pile. Cheney Brothers. 244,175; July 17; Serial No. 261,553; published May 1, 1928.
Fabrics, Terry looped. Starr Knitting Mills, Inc. 244,416; July 17; Serial No. 263,625; published May 1, 1928.
Piece goods. Haas Brothers Fabrics Corporation. 244,254; July 17; Serial No. 262,909; published May 1, 1928.
Piece goods. Wm. Simpson, Sons & Co. 244,259; July 17; Serial No. 262,824; published May 1, 1928.
Piece goods, Linen-finished. S. Handal & Sons. 244,431; July 17; Serial No. 252,326; published May 1, 1928.
Piece goods, Woolen. Forstmann & Huffmann Company. 244,273–5; July 17; Serial Nos. 263,133–5; published May 1, 1928.
Piece goods, Woolen. Forstmann & Huffmann Company. 244,332–6; July 17; Serial Nos. 263,138–42; published May 1, 1928.
Ribbons, materials, fabrics, knitted goods, etc. N. V. Nederlandsche Kunstzijdefabriek. 244,372; July 17; Serial No. 254,500; published May 1, 1928.
Ribbons, materials, fabrics, knitted goods, etc. N. V. Nederlandsche Kunstzijdefabriek. 244,377; July 17; Serial No. 254,147; published May 1, 1928.
Rugs, Textile. Carter Brothers. 244,411; July 17; Serial No. 263,750; published May 1, 1928.
Sheets and pillowcases and cotton piece goods. Naumkeag Steam Cotton Company. 244,410; July 17; Serial No. 263,780; published May 1, 1928.
Sheets, pillowcases, and sheetings. Riverside & Dan River Cotton Mills, Inc. 244,364; July 17; Serial No. 262,770; published May 1, 1928.
Silk chiffon crepe in the piece. Goldenberg Bros. & Co. 244,255; July 17; Serial No. 262,908; published May 1, 1928.
Silk goods in the piece. A. Rusch, jr. 244,409; July 17; Serial No. 263,831; published May 1, 1928.
Silk piece goods. Jas. G. Johnson & Co. 244,257; July 17; Serial No. 262,853; published May 8, 1928.
Silk piece goods. H. R. Mallinson & Co. Inc. 244,203; July 17; Serial No. 263,221; published May 8, 1928.
Silk piece goods, silks and metal, etc. Coudurier, Fructus & Descher. 244,390; July 17; Serial No. 257,054; published May 8, 1928.
Woolen goods in the piece. Worumbo Manufacturing Company. 244,186; July 17; Serial No. 263,527; published May 8, 1928.
Woolen piece goods. Forstmann & Huffmann Company. 244,244; July 17; Serial No. 263,131; published May 1, 1928.

CLASS 43.

Thread and yarns. N. V. Nederlandsche Kunstzijdefabriek. 244,371; July 17; Serial No. 254,502; published May 1, 1928.
Thread and yarns. N. V. Nederlandsche Kunstzijdefabriek. 244,378; July 17; Serial No. 254,145; published May 1, 1928.
Thread and yarns. N. V. Nederlandsche Kunstzijdefabriek. 244,422; July 17; Serial No. 254,506; published May 1, 1928.
Threads and yarns. N. V. Nederlandsche Kunstzijdefabriek. 244,423; July 17; Serial No. 254,504; published May 1, 1928.
Thread and yarns of cotton, wool, etc. Fred Butterfield & Co. 244,338; July 17; Serial No. 264,280; published May 8, 1928.

CLASS 45.

Beverage, sirup, extract, etc. C. Adams. 244,221; July 17; Serial No. 262,143; published May 8, 1928.
Beverages. E. Fisher. 244,352; July 17; Serial No. 260,679; published May 8, 1928.
Beverages and sirups for making the same. R. A. Reid. 244,412 July 17; Serial No. 263,725; published May 8, 1928.
Beverages, sirups, extracts, etc. Mulvihill-Goodwine Company. 244,188; July 17; Serial No. 263,506; published May 8, 1928.
Extracts and concentrated syrups, Flavoring. J. F. Lazier Manufacturing Company. 244,252; July 17; Serial No. 262,918; published May 8, 1928.
Extracts and concentrated syrups, Flavoring. J. F. Lazier Manufacturing Co. 244,324; July 17; Serial No. 262,919; published May 8, 1928.
Mineral water, ginger ale, etc. Wilson-Martin Bottling Works, Inc. 244,220; July 17; Serial No. 262,194; published May 8, 1928.
Syrups, concentrates, and emulsions for the preparation of soft drinks. Virginia Dare Extract Co. Inc. 244,276; July 17; Serial No. 191,108; published May 12, 1925.

CLASS 46.

Apples and pears, eggs, live and dressed poultry, Fresh. White Cloud Farms, Incorporated. 244,443; July 17; Serial No. 259,314; published May 1, 1928.
Asparagus. G. J. Hollenbeck. 244,375; July 17; Serial No. 254,281; published May 1, 1928.
Cake and fancy cakes, Pound. American Cake Baking Co. 244,449; July 17; Serial No. 258,789; published May 1, 1928.
Candies. H. R. Bailey. 244,278; July 17; Serial No. 236,302; published May 8, 1928.
Candy. Bunte Brothers. 244,183; July 17, Serial No. 261,041; published May 8, 1928.
Candy. Carpenter Cook Co. 244,415; July 17; Serial No. 263,685; published May 8, 1928.
Candy. C. E. Gheens. 244,367; July 17; Serial No. 262,560; published May 1, 1928.
Candy. A. B. Hawkins. 244,192; July 17; Serial No. 263,468; published May 8, 1928.

Candy. G. E. Smith. 244,428; July 17; Serial No. 250,267; published May 8, 1928.
Candy. Ward-Owsley Co. Inc. 244,456; July 17; Serial No. 258,441; published May 1, 1928.
Candy bar. Wilkes Barre Mail Candy Company. 244,291; July 17; Serial No. 246,523; published May 10, 1927.
Canned and bottled pickles. A. F. Weinrich. 244,195; July 17; Serial No. 263,351; published May 8, 1928.
Canned baked beans. G. F. Heublein & Bro. 244,253; July 17; Serial No. 262,960; published May 8, 1928.
Canned cooked food consisting of cereals and fruit. C. N. Lockwood. 244,453; July 17; Serial No. 258,581; published May 1, 1928.
Canned fish, shellfish, beef, pork, chicken, and vegetables. N. G. Kaisha. 244,446; July 17; Serial No. 259,211; published May 1, 1928.
Canned fruits and vegetables. Richmond-Chase Company. 244,267; July 17; Serial No. 262,262; published May 8, 1028.
Canned fruits and vegetables, berries, succotash, and sliced pineapple. Middle States Packing Corporation. 244,166; July 17; Serial No. 262,011; published May 1, 1928.
Canned fruits and vegetables, coffee, and peanut butter. Alton Mercantile Company. 244,347; July 17; Serial No. 260,420; published May 1, 1928.
Canned fruits, canned vegetables, hams, etc. H. C. Bohack Co. 244,280; July 17; Serial No. 238,480; published May 8, 1928.
Canned fruits, vegetables, etc. California Co-Operative Producers. 244,382–3; July 17; Serial Nos. 253,304–5; published May 8, 1928.
Canned sardines. R. B. Boak Company. 244,376; July 17; Serial No. 254,167; published May 1, 1928.
Canned vegetables. Lake Mills Canning Company. 244,190; July 17; Serial No. 263,481; publishd May 1, 1928.
Canned vegetables. Oconomowoc Canning Company. 244,196; July 17; Serial No. 263,325; published May 1, 1928.
Cereal breakfast food. Red River Grain Company Limited. 244,421; July 17; Serial No. 254,561; published May 1, 1928.
Cereal breakfast foods. Jersey Cereal Company. 244,172; July 17; Serial No. 261,633; published May 1, 1928.
Chocolate, cocoa, chocolate coating, etc. Merckens Chocolate Co. 244,492; July 17.
Coffee. Ennis-Hanly-Blackburn Coffee Co. 244,363; July 17; Serial No. 262,800; published May 1, 1928.
Coffee, Roasted. Ennis-Hanly-Blackburn. Coffee Co. 244,260; July 17; Serial No. 262,799; published May 1, 1928.
Coffee, Roasted. Leflore Grocery Company. 244,209; July 17; Serial No. 262,169; published May 1, 1928.
Cookies. Cap Sheaf Bread Company. 244,366; July 17; Serial No. 262,694; published May 1, 1928.
Extract, Malt. P. G. Hauschildt. 244,331; July 17; Serial No. 263,120; published May 1, 1928.
Extracts for foods, Flavoring. Finn Chemical Company. 244,475; July 17.
Fish and cooked and smoked fish, etc., Fresh and salt water. Beyer Fish Co. 244,460; July 17; Serial No. 259,757; published May 1, 1928.
Flour, Hard-baked wheat. Frank H. Lockyer Supply Co. Limited. 244,289; July 17; Serial No. 257,169; published May 8, 1928.
Flour, Self-rising. Bligh Milling Company. 244,436; July 17; Serial No. 250,960; published May 1, 1928.
Flour Wheat. Hecker-Jones-Jewell Milling Company. 244,448; July 17; Serial No. 258,943; published May 1, 1928.
Food, Bird. Shellgram Company. 244,176; Juy 17; Serial No. 261,528; published May 1, 1928.
Food, Breakfast. Ko-Pa Corporation. 244,272; July 17; Serial No. 262,033; published May 1, 1928.
Food product. Spinach Products Co. 244,217; July 17; Serial No. 262,209; published May 1, 1928.
Fruits and vegetables and dried fruits, Fresh. Sunset Produce Co. 244,178; July 17; Serial No. 261,403; published May 1, 1928.
Fruits and vegetables, Fresh citrus. Randolph Marketing Company. 244,373; July 17; Serial No. 254,474; published May 8, 1928.
Fruits, Fresh citrus. Bradford Bros., Inc. 244,197; July 17; Serial No. 263,303; published May 1, 1928.
Fruits, Fresh deciduous. G. McKinlay. 244,202; July 17; Serial No. 263,222; published May 8, 1928.
Hams, bacon, lard, etc. Sieloff Packing Company. 244,293; July 17; Serial No. 247,828; published May 8, 1928.
Ice Cream, Chocolate coating for. Cremo Pop Corporation. 244,323; July 17; Serial No. 262,901; published May 8, 1928.
Ice cream, water ice, sherbet, etc. Southern Dairies, Inc. 244,287–8; July 17; Serial Nos. 245,112–13; published May 8, 1928.
Kraut juice, dill pickles, chowchow, sweet gherkins, etc. Recht & Rosenbaum, Inc. 244,396; July 17; Serial No. 256,011; published May 1, 1928.
Lard, oleo oils, poultry and stock feed, gelatine, etc. Consolidated Rendering Company. 244,353; July 17; Serial No. 260,807; published May 8, 1928.
Macaroni, spaghetti, noodles, etc. J. T. Fargason Grocer Co. 244,299; July 17; Serial No. 263,206; published May 8, 1928.
Marshmallows. Richlite Products Co. 244,284; July 17; Serial No. 241,678; published Dec. 27, 1927.
Milk. Mistletoe Creameries. 244,433; July 17; Serial No. 251,784; published May 1, 1928.
Milk, Malted. Arnest's Malted Milk Shops. 244,206; July 17; Serial No. 262,641; published May 8, 1928.
Oil, a cottonseed product, Salad. I. Rokeach & Sons, Inc. 244,362; July 17; Serial No. 260,957; published May 1, 1928.
Olive oil. Coelho Brothers. 244,210; July 17; Serial No. 262,555; published May 1, 1928.
Olive oil. Taormina Bros. 244,310; July 17; Serial No. 263,444; published May 8, 1928.
Olive oils, canned fruits, canned vegetables, canned fish, etc. Tama Trading Company. 244,468; July 17.
Oranges and grapefruit. T. P. Lippitt. 244,344; July 17; Serial No. 260,181; published May 1, 1928.
Oranges, lemons, and grapefruit. Limoneira Company. 244,189; July 17; Serial No. 263,484; published May 8, 1928.
Pears and fresh deciduous fruits, Fresh. Palmer Corporation. 244,387–8; July 17; Serial Nos. 257,190–1; published May 8, 1928.
Pectin, lemon juice, and oil, Citrus. M. B. Rohner. 244,218; July 17; Serial No. 262,263; published May 8, 1928.
Pimientos marrones, canned peeled red chile peppers, etc., Canned. Royal Packing Company. 244,179; July 17; Serial No. 261,387; published May 8, 1928.
Preserves, jellies, and table syrups, Fruit. Griggs, Cooper & Company. 244,341; July 17; Serial No. 260,114; published May 8, 1928.
Preserves, jellies, table syrup, etc., Fruit. Griggs, Cooper & Company. 244,342; July 17; Serial No. 260,120; published May 8, 1928.
Sauces. Pango Milk Chocolate Co. 244,407; July 17; Serial No. 259,781; published May 1, 1928.
Syrup. Ko-Pa Corporation. 244,232; July 17; Serial No. 261,575; published May 8, 1928.
Syrup, Malt. J. J. Hastings. 244,209; July 17; Serial No. 262,606; published May 8, 1928.
Syrup, Malt. Italian Supply Co. 244,313; July 17; Serial No. 263,473; published May 8, 1928.
Syrup, Malt. M. Margolis. 244,327; July 17; Serial No. 263,006; published May 1, 1928.
Syrup, Malt. Stroh Products Company. 244,385; July 17; Serial No. 257,454; published Apr. 3, 1928.
Syrup, Malt. United Purchasing Co. 244,311; July 17; Serial No. 263,447; published May 8, 1928.
Syrups, Malt. Soren J. Heiberg Company. 244,296; July 17; Serial No. 263,150; published May 8, 1928.
Teas and coffee. Drake & Company. 244,165; July 17; Serial No. 262,022; published May 1, 1928.
Wafers, Chocolate-covered. M. Frangos. 244,265; July 17; Serial No. 262,353; published May 1, 1928.

CLASS 48.

Ale. William Younger & Co. 244,240; July 17; Serial No. 261,228; published May 1, 1928.
Malt beverage. Gottfried Krueger Brewing Co. 244,317; July 17; Serial No. 262,711; published May 8, 1928.
Malt beverage. Gottfried Krueger Brewing Co. 244,365; July 17; Serial No. 262,712; published May 8, 1928.

CLASS 49.

Alcohol, Ethyl. General Industrial Alcohol Company Incorporated. 244,173; July 17; Serial No. 261,564; published May 8, 1928.
Punch, Alcoholic. C. E. Cederlund. 244,435; July 17; Serial No. 251,426; published May 8, 1928.

CLASS 50.

Leather, Artificial or imitation. Mocotan Company. 244,256; July 17; Serial No. 262,863; published Apr. 24, 1928.

ALPHABETICAL LIST OF LABELS.

Absorbine Jr. For an Antiseptic Liniment. W. F. Young, Inc. 34,342; July 17.

Air Mail Race. For an Aeroplane Playing Game. Standard Industries. 24,337; July 17.

Almond Roca. For a Confection. Brown & Haley. 34,296; July 17.

American Beauty. For Mattresses. L. W. Stockwell Company. 34,338; July 17.

Best Grade Shogun Firecrackers. For Firecrackers. Pyro Importing Company. 34,326; July 17.

Bosch Windshield Wiper. For Windshield Wipers. Robert Bosch Aktiengesellschaft. 34,294; July 17.

California Almonds I X L. For Sheller-Run Almonds. California Almond Growers Exchange. 34,297; July 17.

Dand-Off. For Dandruff Exterminator. Dand-Off Co. 34,303; July 17.

E. F. Kemp. Salted Filberts. For Salted Filberts. E. F. Kemp. 34,317; July 17.

E. F. Kemp. Salted Pistachios. For Salted Pistachios. E. F. Kemp. 34,316; July 17.

Evelyn Carlyle's Proved 2020 Prepared Scalp Massage Oil. For Scalp-Massage Oil. E. C. Dameron. 34,302; July 17.

Evera Permanent Waving Machine. For Permanent Waving Machines. Yvette Co. 34,343; July 17.

Feeser's Golden Specialties. For Macaroni, Spaghetti, Noodles, and Similar Alimentary Food Products. Feeser Macaroni Company. 34,304; July 17.

Frisch Process (Case 538). For Bread. E. Frisch. 34,306; July 17.

Frisch Process (Case 539). For Bread. E. Frisch. 34,307; July 17.

Frisch Process (Case 540). For Bread. E. Frisch. 34,308; July 17.

Frisch Process (Case 542). For Bread. E. Frisch. 34,309; July 17.

Frisch Process (Case 543). For Bread. E. Frisch. 34,310; July 17.

Frisch Process (Case 545). For Bread. E. Frisch. 34,311; July 17.

Frisch Process (Case 546). For Bread. E. Frisch. 34,312; July 12.

Golden Bird. For Fresh Grapes. F. C. Rusconi. 34,334; July 17.

H. For Fresh Pears. G. H. Anderson Estate. 34,292; July 17.

Kirkpatrick Pul-Bro-Tu Remedies. For a Medicinal Preparation. Dr. Geo. Kirkpatrick Remedies Company. 34,318; July 17.

Kirkpatrick Rheugolt Remedies. For a Medicinal Preparation. Dr. Geo. Kirkpatrick Remedies Company. 34,319; July 17.

Klever Kleaner. For Detergent Preparation in Paste Form. Klever Kleaners. 34,320; July 17.

La Famille Strudel. For Confection. H. Millman. 34,324; July 17.

Lindy Writing Paper No. 86. For Writing Paper. L. Hayne. 34,315; July 17.

Lindy Writing Paper No. 87. For Writing Paper. L. Hayne. 34,314; July 17.

Magic Discovery. For Medicinal Preparation For the Treatment of the Scalp and Skin. Magic Discovery Co. 34,322; July 17.

Melotone. For Melotone Which is a Compound of Corn Sugar, Gelatine, Dextrose, Ash, Sodium Chloride, and Protein. L. Schlosser. 34,335; July 17.

Model A Motor Oil. For Lubricating Oil. Tractor Sales Company. 34,339; July 17.

Myranet. For Hair Nets. S. D. Frohlich. 34,313; July 17.

Old Pilgrim. For Malt Syrup. C. G. McCaffrey. 34,323; July 17.

Original Lemon Grit Soap. For Lemon Grit Soap. F. J. Lighthouse. 34,321; July 17.

Plantose Health Food Candies. For Candy. Castle Comfort Candy Co. 34,300; July 17.

Radiant Glow Lotion. For a Cosmetic. A. C. Chase. 34,301; July 17.

Red Mule. For Fresh Oranges. Peppers Fruit Company. 34,325; July 17.

San-Filippo. For Macaroni. Feeser Macaroni Company. 34,305; July 17.

S-O-D-A-N-U-T. For Candy. Riley's Candy Shop. 34,332; July 17.

Style-Pep Mint. For Mints. Shirek & Hirsch. 34,336; July 17.

Ted's Lilly. For Chili Powders. T. Rout. 34,333; July 17.

Trump No. 1. For Trump Cleaner No. 1. Rex Research Corporation. 34,327; July 17.

Trump No. 2. For Trump Cleaner No. 2. Rex Research Corporation. 34,328; July 17.

Trump No. 3. For Trump Cleaner No. 3. Rex Research Corporation. 34,329; July 17.

Trump No. 4. For Trump Cleaner No. 4. Rex Research Corporation. 34,330; July 17.

Trump No. 5. For Trump Cleaner No. 5. Rex Research Corporation. 34,331; July 17.

Vacuum Packed Salted Almonds. For Almonds. California Almond Growers Exchange. 34,299; July 17.

Vacuum Packed Toasted Almonds. For Almonds. California Almond Growers Exchange. 34,298; July 17.

Vi-Tex. For Salve used as a Remedy for Skin Affections. F. Annibale. 34,293; July 17.

Weakley's Pile Remedy. For Medicine for Piles. W. Weakley. 34,340; July 17.

Western Brand California Pure Concentrated Grape Syrup. For Grape Syrup. Western Grape Products Company. 34,341; July 17.

Witch Hair Wash-All-In-One. For Toilet Preparation. J. M. Brown. 34,295; July 17.

ALPHABETICAL LIST OF PRINTS.

Adding Milk a Little At a Time To The Flour Makes Delicious Gravy. For Coffee. Hills Bros. 11,084; July 17.

A Good Cook Puts Up Fruit a Little At a Time . . . Hills Bros Follow The Same Principle In Roasting Coffee. For Coffee. Hills Bros. 11,096; July 17.

As Sunshine Ripens Fruit to Perfection, Controlled Roasting Gives Hills Bros Coffee The Flavor of All Flavors. For Coffee. Hills Bros. 11,100; July 17.

Echoes of Fragrance. For Perfumes. Roger & Gallet. 11,110; July 17.

Enjoy Nature's Cooling Processes. For Athletic Underwear. B. V. D. Company. 11,073; July 17.

Fine Engraved Christmas Cards. For Christmas Cards in a Box. H. W. King. 11,107; July 17.

Good—Wingfoot—Year Tires. For Tires Composed Wholly or in Part of Rubber. Goodyear Tire & Rubber Company Inc. 11,076; July 17.

Good—Wingfoot—Year Truck Tires. For Tires Composed Wholly or in Part of Rubber. Goodyear Tire & Rubber Company. 11,075; July 17.

Griddle Cakes Are Best When The Flour and Milk Are Mixed a Little At a Time . . . Hills Bros Follow The Same Principle In Roasting Coffee. For Coffee. Hills Bros. 11,092; July 17.

Hills Bros Coffee Is The Most Asked-For Coffee In The West. For Coffee. Hills Bros. 11,089; July 17.

Hills Bros Extended The Boundaries of Coffee Flavor When They Discovered Controlled Roasting. For Coffee. Hills Bros. 11,104; July 17.

Hills Bros Give The West The Constant Luxury Of Coffee With a Matchless Flavor. For Coffee. 11,090; July 17.

Hills Bros' Principle of Roasting Coffee Agrees With The Important Rule in Making Biscuits. For Coffee. Hills Bros. 11,083; July 17.

Hills Bros Turned the Successful Rule For waffles—A Little at a Time—Into an Exclusive Process of Roasting Coffee. For Coffee. Hills Bros. 11,105; July 17.

Introducing The Jowls. For Venetian Toilet Preparations. Elizabeth Arden, Inc. 11,071; July 17.

Little American. For Toy Electrical Trains. American Flyer Manufacturing Company. 11,061; July 17.

'March On!' The Captain Shouted, 'March On!' The Bugle Peals, 'March On!' The Wise Ones Echo, On Good—Wingfoot—Year Wingfoot Heels. For Heels Composed Wholly or in Part of Rubber. Goodyear Tire & Rubber Company Inc. 11,078; July 17.

More—For Dessert—My-T-Fine. For Dessert Preparations. D & C Co. Inc. 11,074; July 17.

Now Hearken—Ye Who Shoes Do Wear Behold Yon Auto Wheels You Too Can Walk as if on Air on Good—Wingfoot—Year Heels. For Heels Composed Wholly or in Part of Rubber. Goodyear Tire & Rubber Company Inc. 11,077; July 17.

Perfect Muffin Batter Is Made By Mixing The Ingredients a Little At a Time . . . Hills Bros Practice The Same Principles In Roasting Coffee. For Coffee. Hills Bros. 11,085; July 17.

Rightly Is The West Proud Of Its Glorious Scenery and Its Famous Coffee—Hills Bros. For Coffee. Hills Bros. 11,098; July 17.

The Ambassador. For Toy Electrical Trains. American Flyer Manufacturing Company. 11,067; July 17.

The Art of Creative Beauty. For Cleansing Cream, Tissue Cream, Cold Cream, Vanishing Cream, Astringent Cream, Weather Cream, and Hand Cream. Barbara Gould, Ltd. 11,079; July 17.

The Bluebird. For Toy Electrical Trains. American Flyer Manufacturing Company. 11,068; July 17.

The Eagle. For Toy Electrical Trains. American Flyer Manufacturing Company. 11,069; July 17.

The Explorer. For Toy Electrical Trains. American Flyer Manufacturing Company. 11,060; July 17.

The Flavor of Hills Bros Coffee is as Distinctive as the Grandeur of the West. For Coffee. Hills Bros. 11,103; July 17.

The Future . . . And The Pastel. For Junior Misses' Apparel. Jordan Marsh Company. 11,108; July 17.

The Hamiltonian. For Toy Electrical Trains American Flyer Manufacturing Company. 11,070; July 17.

The Ingredients of Good Pie Crust are Combined a Little at a Time . . . A Principle that Hills Bros Follow in Roasting Coffee. For Coffee. Hills Bros. 11,081; July 17.

The Merchant. For Toy Electrical Trains. American Flyer Manufacturing Company. 11,059; July 17.

The Most Delicious French Fried Potatoes Are Cooked a Few At a Time . . . The Flavor Of Hills Bros Coffee Is The Result Of The Same Principle. For Coffee. Hills Bros. 11,097; July 17.

The Mountaineer. For Toy Electrical Trains. American Flyer Manufacturing Company. 11,064; July 17.

The New Jeffersonian. For Toy Electrical Trains. American Flyer Manufacturing Company. 11,067; July 17.

The Nights are Safer Now. For Dirigible Headlights. International Controlled Lamp Co. 11,106; July 17.

The Pocahontas. For Toy Electrical Trains. American Flyer Manufacturing Company. 11,063; July 17.

The Potomac. For Toy Electrical Trains. American Flyer Manufacturing Company. 11,066; July 17.

The President's Special. For Toy Electrical Trains. American Flyer Manufacturing Company. 11,065; July 17.

The Secret Of Fine Cakes Is Mixing The Ingredients a Little At a Time . . . Hills Bros Observe The Same Principle In Roasting Coffee. For Coffee. Hills Bros. 11,093; July 17.

The Secret of Fine Candy-Making and the Roasting of Hills Bros Coffee Upon the Same Rule. For Coffee. Hills Bros. 11,102; July 17.

The Statesman. For Toy Electrical Trains. American Flyer Manufacturing Company. 11,062; July 17.

The Trail Blazer. For Toy Electrical Trains. American Flyer Manufacturing Company. 11,058; July 17.

This Red Woven Label. For Athletic Underwear. B. V. D. Company. 11,072; July 17.

To Coffee Lovers The Greatest Discovery In The West Is Hills Bros' Process Of Controlled Roasting. For Coffee. Hills Bros. 11,094; July 17.

Venus Pencils (C 76). For Pencils. American Lead Pencil Company. 11,056; July 17.

Watch The Chef Broil Chops—A Little At a Time on Each Side . . . Hills Bros Follow The Same Principle In Roasting Coffee. For Coffee. Hills Bros. 11,087; July 17.

When The West Thinks of Coffee it Says 'Hills Bros'—The Coffee Roasted a Few Pounds at a Time. For Coffee. Hills Bros. 11,099; July 17.

Why a Hot Hen Lays More Eggs. For Coal. Old Ben Coal Corporation. 11,109; July 17.

Why Does The Coffee-Loving West Look For Hills Bros' Arab? For Coffee. Hills Bros. 11,088; July 17.

You Fry Doughnuts a Few at a Time . . . For the Same Reason Hills Bros Roast Their Coffee a Few Pounds at a Time. For Coffee. Hills Bros. 11,080; July 17.

You Make Fine Mayonnaise By Adding The Oil a Little At a Time . . . Hills Bros Give You A Matchless Coffee By Following The Same Principle In Roasting. For Coffee. Hills Bros. 11,095; July 17.

You Pop Corn a Little At a Time And Hills Bros Roast Their Coffee The Same Way. For Coffee. Hills Bros. 11,091; July 17.

You Prove The Value Of Hills Bros' Rule In Roasting Coffee When You Add Cereal To Boiling Water a Little At a Time. For Coffee. Hills Bros. 11,086; July 17.

Your Rule Of Adding Rice to the Water a Little at a Time is the Vital Principle in Hills Bros' Process of Roasting Coffee. For Coffee. Hills Bros. 11,101; July 17.

Your Search For Fine Coffee Is At An End When You See Hills Bros' Arab. For Coffee. Hills Bros. 11,082; July 17.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 17TH DAY OF JULY, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abbott Laboratories. (See Adams, Roger, assignor.)
Abel, John F., Burlington, Iowa. Attachment for carburetors. 1,677,609; July 17.
Abraham, Gabriel, New York, N. Y. Garter. 1,677,423; July 17.
Abraham, Herbert, New York, N. Y., assignor to The Ruberoid Company. Roof. Des. 75,761; July 17.
Abraham, Herbert, New York, N. Y., assignor to The Ruberoid Company. Roof. Des. 75,762; July 17.
Abram, John D., Detroit, Mich. Tamping machine. 1,677,422; July 17.
Acetol Products, Inc. (See Zimmerli, Adolph, assignor.)
Acme Motion Picture Projector Company. (See Ballman, E. C., and Evers, assignors.)
Adams, Arthur H., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and device for electric welding. 1,677,161; July 17.
Adams, Clara A., Jackson, Mich. Ironing board and support. 1,677,162; July 17.
Adams, Roger, Urbana, assignor to Abbott Laboratories, North Chicago, Ill. Cyclopentenyl alkyl acetic acid. 1,677,123; July 17.
Adamson, Arthur V. (See Jackson, G. P., and Adamson.)
Addressograph Company. (See Hubbard, Henry E., assignor.)
Adkins, William H., Kansas City, Mo. Lawn mower. 1,677,377; July 17.
Aernout, Robert, Baron van Lynden, London, England. Gradient meter. 1,677,220; July 17.
Affel, Herman, Maplewood, N. J., assignor to American Telephone and Telegraph Company. Carrier-receiving system. 1,677,224; July 17.
Ahrens, Richard M., assignor to California Transit Company, Oakland, Calif. Sliding-window holder. 1,677,317; July 17.
Air Reduction Company. (See Anderson, James L., assignor.)
Air Reduction Company. (See Houseman, Cecil R., assignor.)
Ajax Metal Company, The. (See Northrup, Edwin F., assignor.)
Aktiebolaget Vaporackumulator. (See Ruths, Johannes, assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Wichert, Alfred, assignor.)
Alaj, Antoine L., Chicago, Ill. Cushion tire. 1,677,124; July 17.
Alassio, Federico, J. B., T., S., and F., Paysandu, Uruguay. Producing earthenware pipes and products resulting therefrom. 1,677,808; July 17.
Alassio, Florencio. (See Alassio, Federico, J. B., T., S., and F.)
Alassio, Juan B. (See Alassio, Federico, J. B., T., S., and F.)
Alassio, Serafin. (See Alassio, Federico, J. B., T., S., and F.)
Alassio, Tomás. (See Alassio, Federico, J. B., T., S., and F.)
Albrecht, Dieter, Berlin, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Device for indicating the quotient of two electrical quantities. 1,677,378; July 17.
Aldrich, Alonzo, assignor to Beloit Iron Works, Beloit, Wis. Oscillating suction box. 1,677,128; July 17.
Alesse, Joseph. (See Laviano, B., Alesse, and Campagna.)
Alexander, Harry S., assignor to Tater-Flakes Company, Chicago, Ill. Display device. 1,677,318; July 17.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Antenna. 1,677,698; July 17.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution. 1,677,699; July 17.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution. 1,677,700; July 17.
Allen, Gerald H., Detroit, Mich. Gauge. 1,677,424; July 17.
Allender, Howard W. (See Harrison, H. H., Allender, and Fout.)
Alton, William H., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y. New granule and producing same. 1,677,701; July 17.
Amcoin Coffee System Company. (See Wertheimer, Leo, assignor.)
American Bottle Company, The. (See Ginter, Paul A., assignor.)
American Can Company. (See Eberhart, Felix, assignor.)
American Chain Company. (See Goetz, Oscar H., assignor.)
American Flyer Mfg. Co. (See Becker, Harry S., assignor.)
American Gas Machine Company. (See Olsen, W., and Rasmussen, assignors.)
American Lanil Corporation. (See Schweitzer, Wilhelm H., assignor.)
American Laundry Machinery Company, The. (See Prothers, Harold V., assignor.)
American Meter Company. (See Linderman, Garrett B., jr., assignor.)
American Shoe Machinery Company. (See Wright, Wallace C., assignor.)
American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)
American Telephone and Telegraph Company. (See Loynes, Owen H., assignor.)
American Telephone and Telegraph Company. (See McCurdy, Ralph G., assignor.)
American Telephone and Telegraph Company. (See Weaver, Allan, assignor.)
American Valve and Meter Company, The. (See Gray, Wallace M., assignor.)
American Valve and Meter Company, The. (See McGarry, John T., assignor.)
Ames, Louis A., New York, N. Y. Flag holder and support therefor. 1,677,379; July 17.
Amiot, Felix, assignor to "Société d'Emboutissage et de Constructions Mécaniques," Colombes, Seine, France. Frame component. 1,677,577; July 17.
Anchor Cap and Closure Corporation. (See Scofield, Edgar, assignor.)
Andersen, Johan K. K., Brooklyn, N. Y. Changeable-letter device. 1,677,319; July 17.
Anderson, James L., Englewood, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Protection of acetylene lines. 1,677,225; July 17.
Annis, Ralph B., assignor to Mower-Gulden Annis, Inc., Brooklyn, N. Y. Bottle or the like. Des. 75,763; July 17.
Anstiss, George P., Oak Park, Ill., assignor to G. S. Blakeslee & Co., Cicero, Ill. Washing machine. 1,677,320; July 17.
Apex Electrical Manufacturing Company, The. (See Frantz, Walter A., assignor.)
Appleton, Ernst G., A. C. Fischer, and R. Mooney, assignors to Roach-Appleton Manufacturing Company, Chicago, Ill. Extension lamp. 1,677,163; July 17.
Arras, George, Chicago, Ill. Electric-fixture clamp. 1,677,164; July 17.
Arton, Sven, Chicago, Ill. Cash register. 1,677,510; July 17.
Arvid, Joseph S., Co. (See Auerbach, Joseph B., assignor.)
Asselin, Joseph H., Waterbury, Conn. Combination stool and stepladder. 1,677,610; July 17.
Atlas Press Company. (See Collins, James G., assignor.)
Auerbach, Joseph B., assignor to Joseph S. Arvid Co., New York, N. Y. Display sign. Des. 75,764; July 17.
August, Johannes R. C. (See Hunter, Edgar K., assignor.)
Austin, Herbert A., Worcester, Mass. Fastening loop. 1,677,670; July 17.
Automatic Electric Inc. (See Jacobsen, Emil, assignor.)
Automatic Electric Inc. (See Lomax, Clarence E., assignor.)
Automatic Electric Inc. (See Wicks, John, assignor.)
Automotive Fan & Bearing Company. (See Funk, Truman B., assignor.)
Axtell, Frank C., South Pasadena, assignor to Axtell Research Laboratories, Inc., Los Angeles, Calif. Refining of petroleum fractions. 1,677,425; July 17.
Axtell Research Laboratories, Inc. (See Axtell, Frank C., assignor.)
Badische Maschinenfabrik & Eisengiesserei vormals G. Sebold and Sebold & Neff. (See Nagel, O., and Kaempfer, assignors.)
Bahan, William H. (See Crain, William E., assignor.)
Bailey, John, Cobridge, Stoke-on-Trent, assignor to Furnivals 1913 Limited, Cobridge, England. Shaping teacups or the like with integral handles. 1,677,611; July 17.
Bailey, William T., Nashville, Tenn. Fireplace basket. 1,677,540; July 17.

Bailey, William T., Nashville, Tenn. Fireplace basket. 1,677,541; July 17.
Bailey Meter Company. (See Smith, Arthur R., assignor.)
Bakelite Corporation. (See Turkington, Victor H., assignor.)
Ball, Joseph A. (See Troland, L. T., and Ball.)
Ballert, Otto, Berlin, Germany. Tipping car. 1,677,263; July 17.
Ballman, Edwin C., St. Louis, and E. P. Evers, Overland, Mo., assignors, by mesne assignments, to Acme Motion Picture Projector Company, Chicago, Ill. Projecting apparatus. Re17,037; July 17.
Ballman, Edwin C., St. Louis, and E. P. Evers, Overland, Mo., assignors, by mesne assignments, to Acme Motion Picture Projector Company, Chicago, Ill. Projecting apparatus. Re17,038; July 17.
Ballou, B. A., & Co. (See Roberts, George H., assignor.)
Bang, Niels C. (See Howe, F. A., and Bang.)
Banks, Mark B., Knoxville, Tenn. Shoe. 1,677,226; July 17.
Bany, Herman, Scotia, and D. C. Hoffmann, Schenectady, N. Y., assignors to General Electric Company. Control of electric circuits. 1,677,702; July 17.
Barber Asphalt Company, The. (See Ritter, George, assignor.)
Barber, William A., Washington Township, Carroll County, Ill. Vertical sickle divider for grain-harvesting machinery. 1,677,668; July 17.
Barclay, Gustaf L., assignor to Detroit Steel Products Company, Detroit, Mich. Sash-operating mechanism. 1,677,380; July 17.
Barnard, Walter E., assignor to Barr-Morse Corporation, Ithaca, N. Y. Typewriter and the like. 1,677,165; July 17.
Barney, William R., assignor to W. C. Norris, Tulsa, Okla. Making clamps. 1,677,264; July 17.
Barnhart, Richard M. (See Van Cleave, William F., assignor.)
Barr, Louis L., Pittsburgh, Pa. License plate and displaying the same. 1,677,613; July 17.
Barr, Sidney U., Brooklyn, N. Y. Double-hung window. 1,677,578; July 17.
Barr-Morse Corporation. (See Barnard, Walter E., assignor.)
Barrows, Donald S., Rochester, N. Y., assignor, by mesne assignments, to The Symington Company. Journal-box lid. 1,677,321; July 17.
Barry, James J., Gloucester, Mass. Treating crustacea. 1,677,579; July 17.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on shoes. 1,677,322; July 17.
Bauer, Edward, West New York, and P. Miozzi, Union City, N. J. Loom. 1,677,542; July 17.
Bauer, Marius A., Worcester, Mass., assignor to M. J. Whittall Associates. Actuating mechanism in oriental-rug looms. 1,677,426; July 17.
Baur, Hugo J., assignor to The Vortex Mfg. Co., Chicago, Ill. Cup dispenser. 1,677,166; July 17.
Baxter, Harold G., Baldwin, N. Y., and H. K. Krantz, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Switch mechanism. 1,677,323; July 17.
Bay State Optical Company. (See McFadden, Fay, assignor.)
Bead Chain Manufacturing Company, The. (See Goodridge, Gilbert W., assignor.)
Bean, William L., West Haven, Conn., assignor to McClellon Locomotive Boiler Company, Boston, Mass. Locomotive boiler. 1,677,427; July 17.
Bear Tractor Corporation of America. (See Leake, Thomas C., assignor.)
Beauregard, Charles L., Providence, R. I. Safety device for motor vehicles. 1,677,703; July 17.
Bechtold, William S., Newark, N. J. Mirror or similar toilet article. Des. 75,765; July 17.
Bechtold, William S., Newark, N. J. Mirror or similar toilet article. Des. 75,766; July 17.
Bechtold, William S., Newark, N. J. Mirror or similar toilet article. Des. 75,767; July 17.
Bechtold, William S., Newark, N. J. Mirror or similar toilet article. Des. 75,768; July 17.
Beck, Arlie C., and A. S. Morningstar, Bentonville, Ark. Gasoline clarifier. 1,677,824; July 17.
Becker, Donald B., Watervliet, assignor to Geo. P. Ide & Company, Inc., Troy, N. Y. Collar package. 1,677,511; July 17.
Becker, Harry S., River Forest, assignor to American Flyer Mfg. Co., Chicago, Ill. Bell-ringing means for toy locomotives. 1,677,669; July 17.
Beloit Iron Works. (See Aldrich, Alonzo, assignor.)
Bendix Brake Company. (See Bendix, Vincent, assignor.)
Bendix, Vincent, assignor to Bendix Brake Company, Chicago, Ill. Brake-operating means. 1,677,381; July 17.
Benner, Raymond C., Bayside, N. Y., assignor, by mesne assignments, to Prest-O-Lite Storage Battery Corporation. Separator. 1,677,512; July 17.
Benner, Winthrop W., Cuyahoga Falls, and E. A. Hoener, assignors to The Firestone Tire and Rubber Company, Akron, Ohio. Apparatus for splicing fabric. 1,677,857; July 17.
Bennett, Ralph S., Pittsfield, Mass., assignor to General Electric Company. Fuse container. Des. 75,769; July 17.
Benz & Cie. Rheinische Automobil- u. Motoren-Fabrik Aktiengesellschaft. (See Wagner, Max, assignor.)
Berger Manufacturing Company, The. (See Fochrenbach, Arthur F., assignor.)
Berger, Samuel L., Newark, N. J. Toy aviation device. Des. 75,770; July 17.
Berton, Arthur, Limited. (See Berton, Herbert, assignor.)
Berton, Herbert, assignor of one-half to Arthur Berton Limited, London, England. Combined bag and cushion. 1,677,743; July 17.
Bethlehem Steel Company. (See Kinney, James A., assignor.)
Binder, Leo J., Spokane, Wash. Grate. 1,677,809; July 17.
Birchfield, Robert W., assignor to Heggie Simplex Boiler Company, Joliet, Ill. Making boilers. Re17,033; July 17.
Bishop, Benjamin S. T. (See Gifford, A. J., and Bishop.)
Bishop, Benjamin S. T., Shrewsbury, and H. A. Jacobson, Worcester, Mass., assignors to Leland-Gifford Company. Electric reversing device for tapping machines. 1,677,744; July 17.
Biva, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 75,771; July 17.
Blacker, William, Stalybridge, England. Apparatus for beating gold leaf or sheets of other metal and such like. 1,677,513; July 17.
Blake, C. C., Incorporated. (See Blake, Charles C., assignor.)
Blake, Charles C., Brookline, assignor to C. C. Blake, Incorporated, Boston, Mass. Shoes. 1,677,612; July 17.
Blake Electric Mfg. Company. (See Smith, Harry C., assignor.)
Blakeslee, G. S., & Co. (See Anstiss, George P., assignor.)
Blattner, Frederick, jr., and E. Janke, Brooklyn, N. Y. Cooking apparatus. 1,677,227; July 17.
Bloch, Leon, assignor to The Republic Brass Company, Cleveland, Ohio. Four-way diverter valve. Re17,034; July 17.
Blodgett, Herbert C., Kalamazoo, Mich., assignor to Door Control Company, Hartford City, Ind. Automatic electric door control. 1,677,129; July 17.
Bloser, Parker Z., assignor to The Zaner-Bloser Company, Columbus, Ohio. Penholder. Des. 75,772; July 17.
Bogdonawich, Joseph A., Ringtown, Pa. Vegetable cutter. 1,677,543; July 17.
Boidin, Auguste, Seclin, France, and J. Effront, Brussels, Belgium. Making a size or dressing. 1,677,614; July 17.
Boidin, Auguste, Seclin, France, and J. Effront, Brussels, Belgium. Prepared starch material and making it. 1,677,615; July 17.
Bond, Richard T., Stringtown, Okla. Magazine for air guns. 1,677,810; July 17.
Bonetto, Domenico, St. Louis, Mo. Fluid motor. 1,677,745; July 17.
Borgeson, Sidney E., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-unwinding device. 1,677,167; July 17.
Bourleaux, Fernand, Saint-Quentin, France. Furnace for heating rivets by means of oxygen and acetylene gases. 1,677,467; July 17.
Boving, Jens O., Westminster, England. Air-lift pump. 1,677,265; July 17.
Bowen, Dudley A., New York, N. Y. Connecter. 1,677,326; July 17.
Bowen, William S., Westfield, N. J. Gas burner. 1,677,811; July 17.
Bradley, Charles E., and C. D. Mason, assignors to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Footwear lining. 1,677,428; July 17.
Bradley, Merrill L., Detroit, assignor to Universal Power Shovel Company, Highland Park, Mich. Clutch mechanism and control therefor. 1,677,327; July 17.
Brainard, George C., J. A. Fitch, and G. T. Gourley, assignors to The General Fireproofing Company, Youngstown, Ohio. Adjustable-compartment metal drawer. 1,677,544; July 17.
Braundsdorf, Otto, E. Holzapfel, Hochst-on-the-Main, and P. Nawiasky, Ludwigshafen-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Halogen derivative of the benzanthrone series and making same. 1,677,545; July 17.
Brenneman, Ivo G., Blue Ball, Pa. Nut lock. 1,677,266; July 17.
Bristol, Harry R., Findlay, Ohio, assignor of one-half to J. S. Bristol, Charleston, W. Va. Building construction. 1,677,267; July 17.
Bristol, Jay S. (See Bristol, Harry R., assignor.)
Brodex Company. (See Conklin, Archie W., assignor.)
Brohmeyer, Friedrich. (See Rottmann, F., and Brohmeyer.)
Bronson, Adelbert E., assignor to The Dill Manufacturing Company, Cleveland, Ohio. Steering wheel. 1,677,616; July 17.
Brooks, Charles E. (See Casey, W. F. J., Cavin, and Brooks.)

Brown, Alfred B., Caldwell, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine framework. 1,677,168; July 17.
Brown & Bigelow. (See Swift, George L., assignor.)
Brown, Charles H., Breckenridge, Tex. Underreamer. 1,677,812; July 17.
Brown, John Y., and J. R. Browning, Everettville, W. Va. Bending machine. 1,677,746; July 17.
Brown, Walter J., Eversley, England, assignor, by mesne assignments, to Metropolitan-Vickers Electrical Company, Limited. High-frequency signaling system. 1,677,268; July 17.
Browning, John R. (See Brown, J. Y., and Browning.)
Buchli, Jacob, Winterthur, Switzerland. Oil-motor-driven locomotive. 1,677,704; July 17.
Bugbee, Lucian W., Indianapolis, Ind., assignor, by mesne assignments, to Continental Optical Corporation, New York, N. Y. Making and marking toric and like lenses. 1,677,382; July 17.
Burghart, Thomas N. Philadelphia, Pa. Nonremovable nut. 1,677,269; July 17.
Burkhardt, Harry L., New York, N. Y., assignor to Ruckstell Sales & Manufacturing Company, Berkeley, Calif. Planetary-gear mechanism. Re17,039; July 17.
Burkhardt, John. (See Simkins, H. D., and Burkhardt.)
Burrage, Albert C. (See Burrage, Albert C., jr., assignor.)
Burrage, Albert C. (See Heuser, Ralph V., assignor.)
Burrage, Albert C., jr., Hamilton, assignor, by mesne assignments, to A. C. Burrage, Boston, Mass. Vulcanization of rubber. 1,677,169; July 17.
Burrowes, E. T., Company, The. (See Compton, Percy R., assignor.)
Bushnell, James E., North Plainfield, assignor to Ransome Concrete Machinery Company, Plainfield, N. J. Concrete mixer. 1,677,813; July 17.
Butcher, Charles A., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic reclosing circuit interrupter. 1,677,328; July 17.
Butler, John M., and H. A. Torson, Chicago, Ill., assignors to Ring Pneumatic Tool Company. Tool retainer for pneumatic hammers. 1,677,270; July 17.
C. G. Spring & Bumper Company, The. (See Jandus, Herbert S., assignor.)
C. H. C. Co., The. (See Hapgood, Clarence H., assignor.)
California Transit Company. (See Ahrens, Richard M., assignor.)
Cambridge Rubber Company (See Dunbar, E. W., and Dempsey, assignors.)
Campagna, Salvatore. (See Laviano, B., Alesse, and Campagna.)
Campbell, George W., Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,677,170; July 17.
Cantin, Paul, Eastburg, Alberta, Canada. Cultivator. 1,677,329; July 17.
Carling, William T., Guildford, England. Positive clutch. 1,677,705; July 17.
Carlson, Carl A., Edmonton, Alberta, Canada. Gate construction. 1,677,330; July 17.
Carr, Edward G., Chicago, Ill., assignor to The Lakewood Engineering Company, Lakewood, Ohio. Concrete-road machine. 1,677,877; July 17.
Carr Fastener Company. (See Carr, Fred S., assignor.)
Carr Fastener Company. (See Pierce, Walter H., assignor.)
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,677,858; July 17.
Carragher, Henry N., Fall River, Mass. Safety lock. 1,677,617; July 17.
Carroll, William J., West Haven, assignor to Sargent & Company, New Haven, Conn. Panic bolt. 1,677,271; July 17.
Carson, Francis L., Berkeley, Calif. Mixing metallic salt in asphaltic compounds. 1,677,272; July 17.
Carty, Richard S., assignor of one-half to C. B. Robinson, Detroit, Mich. Device for displaying automobile numbers. 1,677,580; July 17.
Casey, William F. J., G. Cavin, Kingston, Ontario, and C. E. Brooks, Montreal, Quebec, Canada; said Cavin and said Brooks assignors to said Casey. Bearing. 1,677,171; July 17.
Cavin, Gustave. (See Casey, W. F. J., Cavin, and Brooks.)
Champion Porcelain Company. (See Jeffery, Joseph A., assignor.)
Chemical Preparations, Inc. (See McKenna, Frank J., assignor.)
Cherry, George L., Portland, Oreg. Sill flashing. 1,677,130; July 17.
Chessin, Alexander, New York, N. Y. Gyroscopic apparatus. 1,677,331; July 17.
Chicago-Cleveland Car Roofing Company. (See Jacobs, Francis A., assignor.)
Chrysler Corporation. (See Werdehoff, Albert B., assignor.)
Claflin, Charles A., Medford, assignor to Superior Engineering Company, Boston, Mass. Soot blower for steam boilers. 1,677,383; July 17.
Clapp, Harvey, & Co. (See Person, Axel, assignor.)
Clauder, Arthur W., Bridgeport, Conn., assignor to General Electric Company. Rotary switch handle. 1,677,706; July 17.
Clauss, Robert K., Lehighton, Pa. Pill counting and dispensing machine. 1,677,546; July 17.
Clayton, Martin M., Baden, Pa., assignor to National Metal Molding Company. Liner for electrical connecters. 1,677,332; July 17.
Cleland, Thomas M., Scarboro-on-the-Hudson, N. Y., assignor to Individual Drinking Cup Company, Inc., Easton, Pa. Cup. Des. 75,773; July 17.
Clement, Charles G., assignor to Highway Trailer Company, Edgerton, Wis. Industrial trailer. 1,677,618; July 17.
Cleminshaw, Russell H., Shaker Heights, assignor to The Cleveland Electric Motor Company, Cleveland, Ohio. Sand-mixing machine. 1,677,619; July 17.
Cleveland Electric Motor Company, The. (See Cleminshaw, Russell H., assignor.)
Cleveland Gas Burner and Appliance Company. (See Kerr, Harry E., assignor.)
Clipper Manufacturing Company, The. (See Ortt, Rowley K. and E. K., assignors.)
Close, Otis R. and R. N., Carterville, Mo. Safety snap hook. 1,677,814; July 17.
Close, Roy N. (See Close, Otis R. and R. N.)
Coffman, Samuel M., assignor, by mesne assignments, to Old World Parfum Company, Kansas City, Mo. Perfume-vending machine. 1,677,468; July 17.
Cohen, Benjamin, Brooklyn, N. Y. Awning construction. 1,677,581; July 17.
Cohen, Leon, St. Louis, Mo. Hat pad. 1,677,547; July 17.
Cohen, Leon, St. Louis, Mo. Hat-size reducer. 1,677,548; July 17.
Colbeck, Frederick W., and S. Thronsen, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for working articles. 1,677,172; July 17.
Cole, Don, assignor of one-half to J. A. Dienner, Chicago, Ill. Internal-combustion engine. 1,677,429; July 17.
Cole, Lester M., Cleveland Heights, E. H. Halter, Maple Heights, and R. H. Lewis, assignors to The Warner & Swasey Company, Cleveland, Ohio. Machine tool for boring and turning irregular surfaces. 1,677,131; July 17.
Coleman, Edward W., Northolt Junction, England. Tire. Des. 75,774; July 17.
Coles, Walter H., Troy, Ohio. Irrigating apparatus. 1,677,228; July 17.
Collins, James G., assignor to Atlas Press Company, Kalamazoo, Mich. High-pressure power press. 1,677,132; July 17.
Collins, William R., Georgetown, Colo. Multiple-air-drill tunneling machine. 1,677,430; July 17.
Columbia Machine Works and Malleable Iron Co. (See Smith, Leo O., assignor.)
Combustion Engineering Corporation. (See Jackson, G. P., and Adamson, assignors.)
Combustion Fuel Oil Burner Company. (See Rogers, H. S., and Raddatz, assignors.)
Compagnie d'Applications Mecaniques. (See Rouanet, Louis, assignor.)
Compton, Percy R., assignor to The E. T. Burrowes Company, Portland, Me. Game board. 1,677,707; July 17.
Conklin, Archie W., assignor, by mesne assignments, to Brodex Company, Winter Haven, Fla. Fruit-treating apparatus. 1,677,229; July 17.
Conklin, Philo H., Toledo, Ohio. Segmental-sleeve-valve engine. 1,677,582; July 17.
Continental Optical Corporation. (See Bugbee, Lucian W., assignor.)
Cook, Benjamin W., Midland, Mich. Gate. 1,677,708; July 17.
Cook, H. N., Belting Company, The. (See Cook, Milton H., assignor.)
Cook, Milton H., assignor to The H. N. Cook Belting Company, San Francisco, Calif. Leather product. 1,677,125; July 17.
Cook, William N., New York, N. Y., assignor to E. B. Meyrowitz, Inc. Goggles. 1,677,747; July 17.
Cord Tire Machine Company, The. (See Morris, Howard L., assignor.)
Cornelissen, Ivar, Galveston, Tex. Hydraulic motor. 1,677,431; July 17.
Cory, M. M. (See Perl, John, assignor.)
Costaguta, David, Buenos Aires, Agentina. Motor fuel. 1,677,273; July 17.
Costello, James F., San Francisco, Calif. Form clamp. 1,677,384; July 17.
Councill, Wilford A., Baltimore, Md. Ureteral stone extractor and dilator. 1,677,671; July 17.
Cousins, Wallace J., Chicago, Ill. Soap dispenser. 1,677,709; July 17.
Cragin, Samuel N., Akron, Ohio. Floor mop. 1,677,748; July 17.
Crain, William E., assignor to W. H. Bahan, Greenville, S. C. Screw for center bearings for looms. 1,677,549; July 17.
Crane, Joseph B., Pittsburgh, Pa., assignor to International Combustion Engineering Corporation. Control of gases through boilers. 1,677,749; July 17.
Crane, Raymond E., Kittanning, Pa. Sanitary fixture. 1,677,550; July 17.

Crippen Manufacturing Company. (See Frevert, Albert A., assignor.)
Croft, Hiram D., assignor to Perkins Machine and Gear Company, Springfield, Mass. Broach. 1,677,815; July 17.
Cromwell, William K., jr., Lake Ruland, assignor to The Gandy Belting Company, Baltimore, Md. Coal bag. 1,677,583; July 17.
Croning, Johannes, Hamburg, Germany, assignor, by mesne assignments, to Crown Lock Company. Adjusting locking cylinders. 1,677,432; July 17.
Cromwell, Carl G., assignor to General Motors Corporation, Detroit, Mich. Adjustable seat structure for automobiles. 1,677,584; July 17.
Crown Lock Company. (See Croning, Johannes, assignor.)
Cummer, Frederick H., Los Angeles, Calif. Asphalt-mixing plant. 1,677,274; July 17.
Cummings, Earle W., assignor of one-half to Santa Barbara Lumber Company, Santa Barbara, Calif. Folding brace. 1,677,620; July 17.
Curley, Robert S., Lowell, Mass., assignor, by mesne assignments, to Kitson Machine Shop. Condenser. 1,677,173; July 17.
"Cyklop" Akt. Ges. (See Stachle, Gustav, assignor.)
Cynthia Mills. (See English, Analdo M., assignor.)
Dabrowski, Joseph M., Brooklyn, assignor to Moore Brothers Company, New York, N. Y. Liquid-soap dispenser. 1,677,750; July 17.
D'Albora, John, Yonkers, N. Y. Scouring implement. 1,677,174; July 17.
Däniker, Alfred, Zurich, Switzerland. Temperature regulator. 1,677,710; July 17.
Daugert, Peter, Wilkes-Barre, H. Frey, Kingston, and J. J. Dunleavy, Plymouth, Pa., assignors to Hess, Goldsmith & Co., Inc., New York, N. Y. Steaming crate. 1,677,385; July 17.
Daun, Carl L., assignor to Silcock Airadiator Corporation, Milwaukee, Wis. Electric motor and dynamo machine. 1,677,433; July 17.
Davidson, Charles L., New York, N. Y. Soot-blower apparatus for steam boilers. 1,677,751; July 17.
Daya, Werner, Berlin-Halensee, Germany. Railway signal apparatus. 1,677,816; July 17.
Dearsley, Irwin E. (See Walker, W. H., Mizer, and Dearsley.)
Deicken, Louis A., Los Angeles, Calif. Food tray. 1,677,276; July 17.
Delaney, Samuel J., Oakland, Calif. Combination convection and radiant heater. 1,677,621; July 17.
Delas, Albert, Paris, France, assignor to Société des Condenseurs Delas. Producing in a solution the crystallization of the body dissolved therein. 1,677,551; July 17.
Deline, Irving A., Denver, Colo. Automatically-operating paper-box shaping and finishing machine. 1,677,386; July 17.
Dely, Frank, New York, N. Y. Ventilator. 1,677,711; July 17.
De Mercurio, Giuseppe, Hammonton, N. J. Rolling window screen. 1,677,230; July 17.
Dempsey, Edmund J. (See Dunbar, E. W., and Dempsey.)
Dennis, Hubert W., London, England. Valve. 1,677,126; July 17.
Dennis, Samuel K., assignor to International Harvester Company, Chicago, Ill. Land-roller bearing. 1,677,127; July 17.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Cotton planter. 1,677,469; July 17.
Dent, John A. (See Sessions, Charles R., assignor.)
Derr, Harry E., sr., New York, N. Y., assignor to International Harvester Company. Self-aligning bearing for shafts. 1,677,514; July 17.
Detroit Steel Products Company. (See Barclay, Gustaf I., assignor.)
Deuley, Harvey H., Parkersburg, W. Va. Glass-teeming apparatus. 1,677,275; July 17.
De Verre, Joseph, Oakland, Calif. Apparatus for electroplating and the like. 1,677,817; July 17.
Diamant, Sigismondo, assignor of one-half to C. Scotti, Genoa, Italy. Valve-controlling device for engines and motors. 1,677,552; July 17.
Dibble, Claude M., assignor to Moore Brothers Company, Joliet, Ill. Stove construction. 1,677,585; July 17.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Table cover or similar article. Des. 75,775; July 17.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Table cover or similar article. Des. 75,776; July 17.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Table cover or similar article. Des. 75,777; July 17.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Table cover or similar article. Des. 75,778; July 17.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Table cover or similar article. Des. 75,779; July 17.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Table cover or similar article. Des. 75,780; July 17.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Table cover or similar article. Des. 75,781; July 17.
Dienner, John A. (See Cole, Don, assignor.)
Dill Manufacturing Company, The. (See Bronson, Adelbert E., assignor.)
Dion, Jacob, Bitterfeld, Germany, assignor to the firm: I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Electrode holder. 1,677,712; July 17.
Dissett, Thomas B., East St. Louis, Ill. Air heater. 1,677,553; July 17.
Doman, Albert E., Elbridge, N. Y. Mounting for windshield cleaners. 1,677,175; July 17.
Donaly, James L., Newark, N. J. Fish bait. 1,677,176; July 17.
Door Control Company. (See Blodgett, Herbert C., assignor.)
Dorsch, Florence G. (See Dorsch, Max E. and F. G.)
Dorsch, Max E. and F. G., Chicago, Ill. Animal trap. 1,677,470; July 17.
Dorton, John M., Bonner Springs, Kans. Adjustable sent. 1,677,434; July 17.
Douglas, Harry A., Bronson, Mich. Electric reflecting lamp. 1,677,752; July 17.
Dover Stamping & Manufacturing Company. (See Hayes, John E. R., assignor.)
Dover Stamping & Manufacturing Company. (See Whitney, Horace E., assignor.)
Downs, Mabel J., executrix. (See Jones, Albert F.)
Downs, Thomas, Somerset, N. J. Updraft process of and muffle kiln for firing. 1,677,818; July 17.
Drake, Harcourt C., Hempstead, N. Y. Electric toaster. 1,677,177; July 17.
Drouil, Emile J., New Orleans, La. Tool. 1,677,622; July 17.
Drossbach, Otto, Ludwigshafen-on-the-Rhine, and O. Jordan, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Cellulose composition. 1,677,753; July 17.
Dry Quenching Equipment Corporation. (See Moettell, Arnold, assignor.)
Dual Motors Corporation. (See Streeter, Albert B., assignor.)
Dudley, William A., Brooklyn, assignor to The Western Union Telegraph Company, New York, N. Y. Automatic reversing system for multiplex circuits. 1,677,859; July 17.
Dunbar, Ernest W., Hudson, and E. J. Dempsey, West Medford, assignors to Cambridge Rubber Company, Cambridge, Mass. Machine for making straps. 1,677,231; July 17.
Dunham, Henry V., Bainbridge, N. Y., assignor to Van Tassel Company, Boston, Mass. Waterproofing leather. 1,677,435; July 17.
Dunleavy, John J. (See Daugert, P., Frey, and Dunleavy.)
Dunton, Harris D., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,677,713; July 17.
Duquette, E. F. (See Lewis, Morgan J., assignor.)
Durand, Antoine M., New Haven, Conn. Package for pile fabrics and the like. 1,677,515; July 17.
Earle, Lee E., Albany, assignor to United Royalties Corporation, New York, N. Y. Beater. 1,677,754; July 17.
Eberhart, Felix, Arlington, N. J., assignor to American Can Company, New York, N. Y. Decorated box. Des. 75,782; July 17.
Edele, Harry H., St. Louis, Mo. Child's vehicle. 1,677,586; July 17.
Edge Moor Iron Company. (See Montgomery, Wallace, assignor.)
Edmondson, Samuel G., St. Louis, Mo. Lamp standard. Des. 75,783; July 17.
Effront, Jean. (See Boidin, A., and Effront.)
Ellar, Oliver P., Lawrenceville, Ill. Patch camp for pipe. 1,677,623; July 17.
Eldridge, Ida M., assignor of one-half to L. R. Hoefler, Los Angeles, Calif. Manicuring instrument. Des. 75,784; July 17.
Electric Household Utilities Corporation. (See Hume, John T., assignor.)
Electric Service Supplies Company. (See Smith, William H., assignor.)
Elliot, William S., and W. Noble, assignors to Pro-phy-lactic Brush Company, Northampton, Mass. Brush-making machine. 1,677,672; July 17.
Elwell-Parker Electric Company, The. (See Goldrick, Albert R., assignor.)
Engel-Kron, George M., New York, N. Y., and S. Trey, Stamford, Conn. Hand bag. 1,677,142; July 17.
English, Analdo M., Brookline, assignor to Cynthia Mills, East Boston, Mass. Package-banding machine. 1,677,587; July 17.
English & Mersick Co., The. (See Kalmer, Richard V., assignor.)
Enterprise Optical Manufacturing Company, The. (See Roebuck, Alvah C., assignor.)
Evans, Alva L. (See Lange, M. E., and Evans.)
Evans, Robert D. (See Fortescue, C. L., and Evans.)
Eveland, La Vere J. (See Watkins, H. L., and Eveland.)
Evers, Edward P. (See Ballman, E. C., and Evers.)
Faessler, J., Manufacturing Company, The. (See Maupin, Graves R., assignor.)

Fain, William H. (See Kantorowicz, Julius, assignor.)
Farquharson, Irving W., Media, Pa. Spark plug. 1,677,516; July 17.
Faust, Jacob, Passaic, N. J. Steam pressing iron. 1,677,819; July 17.
Fay, Joseph W., Villa Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for assembling members. 1,677,178; July 17.
Federbush, Jacob D. (See Federbush, Max W. and J. D.)
Federbush, Max W. and J. D., New York, N. Y. Removable window tag for binders. 1,677,277; July 17.
Ferngren, Enoch T., Beaver, Pa., assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn. Glass feeding and delivering mechanism and process. 1,677,436; July 17.
Ferrari, John P., San Francisco, Calif. Power-driven fruit press. 1,677,517; July 17.
Ferris, John P., assignor to The Oilgear Company, Milwaukee, Wis. Assembly press. 1,677,860; July 17.
Ferro, Claude B., San Bernardino, Calif. Traffic signal for motor vehicles. 1,677,624; July 17.
Firestone Tire and Rubber Company, The. (See Benner, W. W., and Hoener, assignors.)
Firestone Tire and Rubber Company, The. (See Goodall, Fred, assignor.)
Firestone Tire and Rubber Company, The. (See Pade, Max H., assignor.)
Firestone Tire and Rubber Company, The. (See Putt, Edward D., assignor.)
Firestone Steel Products Company, The. (See Swain, Joseph G., assignor.)
Fischer, Albert C. (See Appleton, E. G., Fischer, and Mooney.)
Fisher, David G., et al. (See Woodman, Mark G., assignor.)
Fitch, Jason A. (See Brainard, G. C., Fitch, and Gourley.)
Fitz Gibbon Co., The. (See Fitz Gibbon, John, assignor.)
Fitz Gibbon, John, Bronxville, assignor to The Fitz Gibbon Co., Inc., New York, N. Y. Glove. Des. 75,785; July 17.
Foehrenbach, Arthur F., assignor to The Berger Manufacturing Company, Canton, Ohio. Locker latch. 1,677,278; July 17.
Folk, Joseph, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine. 1,677,457; July 17.
Ford, Ben K., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and machine for feeding and working articles. 1,677,133; July 17.
Ford, Henry, Dearborn, Mich. Combined instrument-board and gas-tank construction. 1,677,279; July 17.
Forsyth, George H., Harvey, Ill., assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich. Disk wheel. 1,677,755; July 17.
Fortescue, Charles L., and R. D. Evans, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Electrical protective system. 1,677,333; July 17.
Foss, Oscar, Aneroid, Saskatchewan, Canada. Music roll for player pianos. 1,677,756; July 17.
Foster, Inez M., Simla, India. Novelty holder. 1,677,820; July 17.
Fout, Richard L. (See Harrison, H. H., Allender, and Fout.)
Fox, Maud C., New York, N. Y. Wall pot holder. Des. 75,786; July 17.
Fralley, Joseph R. (See Kelso, Joseph, assignor.)
Frank, Felix, San Francisco, Calif., assignor, by mesne assignments, to W. W. Kemp, Baltimore, Md. Treatment of carbonaceous and other materials. 1,677,757; July 17.
Frank, Felix, San Francisco, Calif., assignor, by mesne assignments, to W. W. Kemp, Baltimore, Md. Treatment of carbonaceous and other materials. 1,677,758; July 17.
Frantz, Walter A., assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Suction cleaning device. 1,677,625; July 17.
Frappy, Joseph, Stirling, Ontario, Canada. Septic tank. 1,677,626; July 17.
Frease, Hurxthal F., Canton, Ohio. Tubular structure. 1,677,714; July 17.
Frevert, Albert A., assignor to Crippen Manufacturing Company, Alma, Mich. Vibrating mechanism. 1,677,759; July 17.
Frey, Henry. (See Dangert, P., Frey, and Dunleavy.)
Friederici, August, Cologne-Mulheim, Germany, assignor to M. Friederici, Steubenville, Ohio. Electrically-driven forging press. 1,677,471; July 17.
Friederici, Max. (See Friederici, August, assignor.)
Frohnhauser, Heinrich, Dortmund, Westphalia, Germany. Apparatus for producing meshed sheet metal, flat bars, and hoop iron. 1,677,438; July 17.
Frontier Manufacturing Company. (See Schaefer, Adolph A., assignor.)
Fuchs, Friedrich, assignor to the firm Ringler & Co. Verlagsanstalt & Vereinigte Buch- & Steindruckereien Zofingen, Switzerland. Multicolor rotary printing press. 1,677,472; July 17.
Fulton, Le Roy M., Chicago, Ill. Portable support. 1,677,439; July 17.
Funk, Truman B., assignor to Automotive Fan & Bearing Company, Jackson, Mich. Pulley. 1,677,134; July 17.
Furnivals 1913 Limited. (See Bailey, John, assignor.)
Galdos, Alonzo F., Oakland, Calif. Combination pencil container and lead magazine. 1,677,387; July 17.
Gall, John F., Evanston, Ill., assignor to Simmons Company, New York, N. Y. Mattress or cushion and boxing therefor and making same. 1,677,232; July 17.
Galassi, Pasquale, New York, N. Y. Dividing strip for terrazzo flooring. 1,677,760; July 17.
Gallagher, Arthur D. (See Lindgren, A. C., and Gallagher.)
Gams, Alphonse, and P. Scheidegger, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Compound of gall acids and making same. 1,677,554; July 17.
Gandy Belting Company, The. (See Cromwell, William K., jr., assignor.)
Garvin, Fred W., Jamestown, N. Y. Dump wagon. 1,677,555; July 17.
Gary, Wright W., assignor of one-half to C. O. Middleton, Los Angeles, Calif. Treating petroleums. 1,677,440; July 17.
Gast, William W., Baltimore, Md. Socket wrench and screw driver. 1,677,473; July 17.
Gebr. Staubli & Co. (See Staubli, Hugo, assignor.)
Gem Clay Forming Company, The. (See Greene, Raymond J., assignor.)
General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
General Electric Company. (See Bany, H., and Hoffmann, assignor.)
General Electrical Company. (See Bennett, Ralph S., assignor.)
General Electric Company. (See Clauder, Arthur W., assignor.)
General Electric Company. (See Dunton, Harris D., assignor.)
General Electric Company. (See Gittings, William N., assignor.)
General Electric Company. (See Lincks, George F., assignor.)
General Electric Company. (See Montainger, Vincent M., assignor.)
General Electric Company. (See Robinson, L. T., and Sabbah, assignors.)
General Electric Company. (See Vogdes, Francis B., assignor.)
General Fireproofing Company, The. (See Brainard, G. C., Fitch and Gourley, assignors.)
General Motors Corporation. (See Cronwall, Carl G., assignor.)
Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Thermostatic overload switch. 1,677,334; July 17.
Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Automatic electric switch. 1,677,335; July 17.
Gibian, Eric H. (See Gunther, L., and Gibian.)
Gibian, Eric H., Chicago, Ill., assignor to The Vitrolite Company. Tile or artice of simiar nature. Des. 75,790; July 17.
Gibian, Eric H., Chicago, Ill., assignor to The Vitrolite Company. Tile or article of similar nature. Des. 75,791; July 17.
Gifford, Albert J., Shrewsbury, and B. S. T. Bishop, assignors to Leland-Gifford Company, Worcester, Mass. Machine for milling crank-shaft pins. 1,677,761; July 17.
Gilbert, Alfred C., assignor, by mesne assignments, to The A. C. Gilbert Company, New Haven, Conn. Towel bar. 1,677,280; July 17.
Gilbert, Alfred C., assignor, by mesne assignments, to The A. C. Gilbert Company, New Haven, Conn. Electric heater. 1,677,281; July 17.
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilburg, Roy O., assignor to Marathon Electric Mfg. Co., Wausau, Wis. Motor-assembling fixture. 1,677,762; July 17.
Gillett, Merriman C., Philadelphia, assignor to Standard Heater Company, Williamsport, Pa. Steam generator. 1,677,763; July 17.
Gill, Terence A. (See Kochendorfer, F. S., and Gill.)
Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,677,518; July 17.
Ginter, Paul A., assignor to The American Bottle Company, Toledo, Ohio. Des. 75,787; July 17.
Ginter, Paul A., assignor to The American Bottle Company, Toledo, Ohio. Bottle. Des. 75,788; July 17.
Ginter, Paul A., assignor to The American Bottle Company, Toledo, Ohio. Bottle. Des. 75,789; July 17.
Gittings, William N., Springfield, Pa., assignor to General Electric Company. Automatic switching system. 1,677,715; July 17.
Glockler, John E., Pittsburgh, Pa. Supporting bracket for parallel rails, rods, and the like. 1,677,764; July 17.
Goedeke, Fred W. (See Moll, Walter, assignor.)
Goetz, Oscar H., Springfield, Mass., assignor to American Chain Company, Inc. Automobile fender guard. 1,677,765; July 17.

Goldrick, Albert R., assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Industrial truck. Re17,043; July 17.

Goldsborough, Shirley L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Induction relay. 1,677,330; July 17.

Goller, Eugene E., assignor to Unique Manufacturing Company, Chicago, Ill. Vaporizing nozzle. 1,677,766; July 17.

Gonyk, Ignatz, Ljubljana, Yugoslavia. Automatic lubricating device for hinges of doors and windows. 1,677,441; July 17.

Goodall, Fred, assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Method and apparatus for handling tacky strip material. 1,677,861; July 17.

Goodchild, Walter, and N. Sclar, assignors to Magic Device Corporation, Hoboken, N. J. Vending machine. 1,677,519; July 17.

Goodrich, B. F., Company, The. (See Graham, T. G., and Schippel, assignors.)

Goodrich, B. F., Company, The. (See Mell, Tod J., assignor.)

Goodrich, B. F., Company, The. (See Merrill, Allan B., assignor.)

Goodridge, Gilbert W., Fairfield, assignor to The Read Chain Manufacturing Company, Bridgeport, Conn. Pencil carrier. 1,677,767; July 17.

Goodrow, Harvey L., Hinsdale, assignor to Wm. Goodrow Moulding Co., Chicago, Ill. Window cornice. 1,677,627; July 17.

Goodrow, Wm., Moulding Co. (See Goodrow, Harvey L., assignor.)

Göpel, Carl, Halle-on-the-Saale, Germany. Device for discharging praline cores from the powdering box. 1,677,179; July 17.

Gorton, Walter T., U. S. Army, Springfield, Mass. Sear mechanism. 1,677,588; July 17.

Gottesman, Herman O., New York, N. Y. Emergency umbrella. 1,677,520; July 17.

Gould, Harry V., Bridgeport, Conn. Cable connecter for outlet boxes. 1,677,628; July 17.

Gourley, Glenn T. (See Brainard, G. C., Fitch, and Gourley.)

Graham, Andrew O., Fort Worth, Tex. Brick-mason's gauge. 1,677,821; July 17.

Graham, Thornton G., Kent, and H. F. Schippel, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Tire. Des. 75,792; July 17.

Graham, William S., Canton, assignor to International Harvester Company, Chicago, Ill. Tractor lister. 1,677,474; July 17.

Gramse, Roy A., assignor to Southern Textile Machinery Co., Paducah, Ky. Stop mechanism for sewing machines. 1,677,673; July 17.

Grass Ill Dyestuff Corporation. (See Braunsdorf, O., Holzapfel, and Nawiasky, assignors.)

Grasselli Dyestuff Corporation. (See Keller, F., and Schnitzpahn, assignors.)

Grasselli Dyestuff Corporation. (See Wagner, H., and Vossen, assignors.)

Graves, Charles M., New York, N. Y. Locking device. 1,677,768; July 17.

Gray, Wallace M., Cincinnati, assignor to The American Valve and Meter Company, Cincinnati, Ohio. Automatic switch stand. 1,677,388; July 17.

Green, Thomas L. (See Green, T. L., and Williams, assignors.)

Green, Thomas L., and C. H. Williams, assignors to said Thomas L. Green, Indianapolis, Ind. Cutter mechanism for plastic material. 1,677,180; July 17.

Greene, Raymond J., assignor to The Gem Clay Forming Company, Sebring, Ohio. Making antique surfaces. 1,677,716; July 17.

Grey, Arthur W. (See Parsons, C. A., Rosen, Grey, and Midgley.)

Groetsch, John H. Gaylord, Minn. Lawn-mower sharpener. 1,677,556; July 17.

Grondahl, Hans H. C., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-handling apparatus. 1,677,181; July 17.

Gross, Fred G., assignor to Mrs. C. Schneider, Chicago, Ill. Attachment for legs and grates. 1,677,629; July 17.

Grove, Thomas E., Dayton, Ohio. Antrum drill. 1,677,337; July 17.

Gulliford, Nicholas L., Peabody, Mass. Heel block and forming the same. 1,677,822; July 17.

Gunnell, Oswald, Bootle, near Liverpool, England. Label or tab for use with goods which have to be dyed. 1,677,475; July 17.

Gunther, Lillian, and E. H. Gibian, Chicago, Ill., assignors to The Vitrolite Company, Tile or article of similar nature. Des. 75,793; July 17.

Gunzler, Heinrich, and O. Neubert, Elberfield, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Polyhydroxy-mercury compound. 1,677,823; July 17.

Guthrie, Crerar. (See Guthrie, Thomas W. and C.)

Guthrie, Thomas W., Southport, England, and C. Guthrie, Yoker, Glasgow, Scotland. Billiard-cue tip. 1,677,282; July 17.

Guthrie, William S., Los Angeles, Calif., assignor to Marvel Carburetor Company, Flint, Mich. Carburetor for internal-combustion engines. 1,677,233; July 17.

Haas, Clarence H., and L. J. Mitchell, Warren, Ohio. Steam boiler. 1,677,630; July 17.

Haas, Louis A., St. Paul, Minn. Antibacklash attachment for reels. 1,677,631; July 17.

Haase, Carl O., Winnetka, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand-working mechanism. 1,677,135; July 17.

Haberland Manufacturing Company. (See Wulkan, Eugene, assignor.)

Haden, Harry Y., New York, N. Y. Fire-fighting boat. 1,677,769; July 17.

Hagadone, Clinton A., Western Springs, assignor to International Harvester Company, Chicago, Ill. Convertible running gear for wagons. 1,677,476; July 17.

Hale, Samuel O., Whittier, Calif. Combined clutch and brake mechanism for hoisting drums. 1,677,338; July 17.

Hall, John C., Whiting, Ind. Indoor golf apparatus. 1,677,442; July 17.

Hall, Theodore, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Projector lamp. 1,677,521; July 17.

Hallberg, Josef H., New York, N. Y. Radio apparatus. 1,677,589; July 17.

Halter, Edmund H. (See Cole, L. M., Halter, and Lewis.)

Hansen Canning Machinery Corporation. (See Hansen, Oswald H., assignor.)

Hansen, Oswald H., assignor to Hansen Canning Machinery Corporation, Port Washington, Wis. Can washer. 1,677,443; July 17.

Hansen, Oswald H., Port Washington, assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis. Beet topper. 1,677,444; July 17.

Hansen, Theodore N., Seattle, Wash. Pocket folding stool. 1,677,339; July 17.

Haygood, Clarence H., assignor, by mesne assignments, to The C. H. C. Co., Toledo, Ohio. Thermostatic regulator. 1,677,340; July 17.

Harden, Walter, Cincinnati, Ohio. Sound-wave transmitting and amplifying device. 1,677,632; July 17.

Hardos, George, Dunmore, Pa. Battery-terminal clamp. 1,677,445; July 17.

Harnsberger, Harry H., Brooklyn, assignor to Modern Management Corporation, New York, N. Y. Pocket wallet. 1,677,770; July 17.

Harris, John, Nuneaton, England. Collar-shaping machine. 1,677,771; July 17.

Harrison, Arthur W., Eagle Rock, assignor of one-half to T. D. Sexton, Los Angeles, Calif. Power brake for motor vehicles. 1,677,633; July 17.

Harrison, Henry H., H. W. Allender, and R. L. Fout, Thomas, W. Va. Coal-loading and track-cleaning machine. 1,677,824; July 17.

Hartford Empire Company. (See Ferngren, Enoch T., assignor.)

Hartmetz, Ernst, Oberesslingen-on-the-Neckar, Germany. Blower. 1,677,446; July 17.

Harvey, Leo M., Los Angeles, Calif. Tie for box straps. 1,677,522; July 17.

Hasselbach, Alexander, assignor to G. Polysius, Dessau, Germany. Manufacturing cements rich in alumina. 1,677,182; July 17.

Hayes, John E. R., Melrose, assignor to Dover Stamping & Manufacturing Company, Cambridge, Mass. Can. 1,677,284; July 17.

Hazeltine Corporation. (See MacDonald, William A. assignor.)

Heggie Simplex Boiler Company. (See Birchfield, Robert W., assignor.)

Hendricks, Jesse C., Greensburg, Ind. Sound-amplifying horn. 1,677,782; July 17.

Hengstenberg, Paul M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrode for evacuated electric devices. 1,677,341; July 17.

Hepburn, William M., Denver, Colo., assignor to Surface Combustion Company. Continuous carbonizing furnace. 1,677,136; July 17.

Herbert, Leon S., Cynwyd, Pa. Striping attachment for knitting machines. 1,677,477; July 17.

Herbst, William K., Hillside, and R. H. Stone, Irvington, N. J., assignors to Titeflex Metal Hose Co. Solidified seam tube. 1,677,523; July 17.

Herrold, Russell P., Zanesville, Ohio, assignor to The Mossaic Tile Company. Ceramic-sorting machine. 1,677,862; July 17.

Herthel, Eugene C., and T. D. Tifft, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbons. 1,677,772; July 17.

Herthel, Eugene C., and T. D. Tifft, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbon oils. 1,677,773; July 17.

Herthel, Eugene C., and T. D. Tifft, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbon oils. 1,677,774; July 17.

Herthel, Eugene C., and T. D. Tifft, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbon oils. 1,677,775; July 17.

Herthel, Eugene C., and T. D. Tifft, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbon oils. 1,677,776; July 17.

Hess-Bright Manufacturing Company, The. (See Linde, Andrew H., assignor.)

Hess, Goldsmith & Co. (See Daugert, P., Frey, and Dunleavy, assignors.)

Heuser, Ralph V., Elizabeth, N. J., assignor to A. C. Burrage, Manchester, Mass. Vulcanization of rubber and product thereof. 1,677,235; July 17.

Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Bag fastener. 1,677,137; July 17.

Higgins, Frank, and A. E. Nordstrom, Princeton, Ill. Hydrocarbon burner. 1,677,447; July 17.

Highway Trailer Company. (See Clement, Charles G., assignor.)

Hilly, Alpheus M., McKeesport, Pa. Sash fastener. 1,677,825; July 17.

Hipp, Didisheim Company. (See Laska, Abraham, assignor.)

Hipple, James L., Canton, Ill., assignor to International Harvester Company. Tractor planter. 1,677,478; July 17.

Hochriem, Gustav F., assignor to Rhodes-Hochriem Manufacturing Co., Chicago, Ill. Attachment for weight-recording scales. 1,677,826; July 17.

Hochriem, Gustav F., assignor to Rhodes-Hochriem Manufacturing Co., Chicago, Ill. Coin-controlled ticket printing and delivering scale. 1,677,827; July 17.

Hodge, John C., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Tension device. 1,677,138; July 17.

Hodgen, James H., Los Angeles, Calif. Back filler for ditches. 1,677,342; July 17.

Hodgson, Harriette E., New York, N. Y. Ice-rescue device. 1,677,236; July 17.

Hoe, R., & Co. (See Lamatsch, Frederick, assignor.)

Hoefler, Lena R. (See Eldridge, Ida M., assignor.)

Hoener, Edmund A. (See Benner, W. W., and Hoener.)

Hoffmann, Daniel C. (See Bany, H., and Hoffmann.)

Hoffman, Harry L., assignor to Richard E. Thibaut, Inc., New York, N. Y. Wall-paper panel or the like. Des. 75,794; July 17.

Holzapfel, Eduard. (See Braunsdorf, O., Holzapfel, and Nawiasky.)

Holzverkohlungs-Industrie Aktiengesellschaft. (See Krause, Erich, assignor.)

Hopkins, Augusta D., New Orleans, La. Grater. 1,677,448; July 17.

Horton, Edgar W., and H. G. Richardson, San Antonio, Tex. Gas outlet. 1,677,634; July 17.

Houseman, Cecil R., Wembley, England, assignor, by mesne assignments, to Air Reduction Company, Incorporated. Heat-interchange device. 1,677,777; July 17.

Howard, Leslie E., and A. D. Potts, Lockport, N. Y., assignors to Simonds Saw and Steel Company, Fitchburg, Mass., Producing permanent magnets. 1,677,674; July 17.

Howe, Fletcher A., and N. C. Bang, Spencer, Iowa. Cleaner attachment for rakes. 1,677,635; July 17.

Howes, Raymond T., Wilmington, assignor to Pan American Petroleum Company, Los Angeles, Calif. Cylinder-oil composition and preparing same. 1,677,389; July 17.

Howlett, Peyton L., Brownwood, Tex. Cotton-tie splice. 1,677,828; July 17.

Howlett, Robert E., Malden, Mass. Stitch-down shoe and making same. 1,677,343; July 17.

Hubbard, Henry E., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Addressing machine. 1,677,344; July 17.

Hubbard, Henry E., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Printing device. 1,677,449; July 17.

Hubbell, Harvey, Jr., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Electric fan. Des. 75,795; July 17.

Hubbell, Harvey, Incorporated. (See Hubbell, Harvey, jr., assignor.)

Huff, Leslie R., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate valve. 1,677,717; July 17.

Hughes, Alfred L., Colorado Springs, Colo. Automatic vehicle gate. 1,677,345; July 17.

Hume, John T., assignor, by mesne assignments, to Electric Household Utilities Corporation, Chicago, Ill. Power-operated clothes wringer. 1,677,863; July 17.

Huntington, Willis G. (See Roberts, F. B., and Huntington.)

Hunter, Edgar K., assignor to J. R. C. August, London, England. Automatic-focusing optical projection apparatus. 1,677,778; July 17.

Huot, Elzie. (See Larrigan, Thomas, assignor.)

Hutchins, James V. (See Ditter, Frank M., assignor.)

Hyde Engineering Company. (See Hyde, Henry W., assignor.)

Hyde, Henry W., North Cohasset, assignor to Hyde Engineering Company, Boston, Mass. Spring suspension for vehicles. 1,677,675; July 17.

Hyde, Henry W., North Cohasset, assignor to Hyde Engineering Company, Boston, Mass. Spring suspension for vehicles. 1,677,676; July 17.

I. G. Farbenindustrie Aktiengesellschaft. (See Dion, Jacob, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Drosbach, O., and Jordan, assignors.)

Ide, Geo. P., & Company. (See Becker, Donald B., assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Sator, K., and Pfannmuller, assignors.)

Iden, Max W., Altona, Germany. Float. 1,677,450; July 17.

Independent Pneumatic Tool Company. (See Nelson, John T., assignor.)

Individual Drinking Cup Company. (See Cleland, Thomas M., assignor.)

Industrial Brownhoist Corporation. (See Steinbrenner, Henry G., assignor.)

Inecto, Inc. (See Winogradoff, Alexander, assignor.)

Ingersoll-Rand Company. (See Huff, Leslie R., assignor.)

Ingersoll-Rand Company. (See Prellwitz, William, assignor.)

International Combustion Engineering Corporation. (See Crane, Joseph B. assignor.)

International Harvester Company. (See Dennis, Samuel K., assignor.)

International Harvester Company. (See Derr, Harry E., sr., assignor.)

International Harvester Company. (See Graham, William S., assignor.)

International Harvester Company. (See Hagadone, Clinton A., assignor.)

International Harvester Company. (See Hipple, James L., assignor.)

International Harvester Company. (See Johnson, Andrew L., assignor.)

International Harvester Company. (See Lindgren, A. C., and Gallagher, assignors.)

International Harvester Company. (See Pearson, Charles, assignor.)

International Harvester Company. (See Raney, C. R., and Johnson, assignors.)

International Harvester Company. (See Rice, George L., assignor.)

International Harvester Company. (See Thomson, Clarence Y., sr., assignor.)

Irwin, Dewitt D., East Liverpool, Ohio, assignor of one-half to E. M. Knowles, Newell, W. Va. Sagger-making machine. 1,677,677; July 17.

Jack, Clarence H., Versailles, assignor to Layton Fire Clay Company, McKeesport, Pa. Pavement. 1,677,829; July 17.

Jackson, George P., Flushing, and A. V. Adamson, Hempstead, N. Y., assignors to Combustion Engineering Corporation. Handling and feeding pulverized fuel. 1,677,779; July 17.

Jackson, Ray P., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,677,346; July 17.

Jacobs, Francis A., Warren, Ohio, assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car roof. 1,677,183; July 17.

Jacobsen, Emil, New York, N. Y., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Semiautomatic telephone system. 1,677,451; July 17.

Jacobson, Henry A. (See Bishop, B. S. T., and Jacobson.)

Jaffe, Lawson L., Chicago, Ill., assignor to S. Wechter Company. Ring or similar article. Des. 75,796; July 17.

Jaffe, Lawson L., assignor to S. Wechter Company, Chicago, Ill. Ring or similar article. Des. 75,797; July 17.

Jagschitz, Konrad, Mainz, assignor to Maschinenfabrik Augsburg-Nuernberg A. G., Nuremberg, Bavaria, Germany. Gasometer. 1,677,524; July 17.

Jandus, Herbert S. (See Jandus, William, assignor.)

Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 75,798; July 17.

Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 75,799; July 17.

Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 75,800; July 17.

Jandus, William, East Cleveland, Ohio, assignor of one-half to H. S. Jandus, Detroit, Mich. Measuring instrument. 1,677,864; July 17.

Janke, Emil. (See Blattner, Frederick, jr., and Janke.)

Jaworowski, Joseph F., Cleveland, Ohio. Air pump. 1,677,780; July 17.

Jeffery, Joseph A., Detroit, Mich., assignor to Champion Porcelain Company. Sagger. 1,677,452; July 17.

Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)

Jenkins, Charles F., Washington, D. C. Prism-lens unit. 1,677,590; July 17.

Jenner, Egbert C., Independence, Mo. Projecting machine. 1,677,237; July 17.

Jessen, Victor, Copenhagen, Denmark. Device for actuating the coupling and the brake in automobiles. 1,677,718; July 17.

Johnson, Andrew L., Chicago, Ill., assignor to International Harvester Company. Kafir-corn-cutting attachment. 1,677,479; July 17.

Johnson, Arnold E. W. (See Raney, C. R., and Johnson.)

Johnson, Russell, Pittsburg, Kans. Indoor golf game. 1,677,557; July 17.

Johnston, William D., Independence, Mo. Flue heater. 1,677,636; July 17.

Jones, Albert F., deceased, Salem, Mass.; M. J. Downs, executrix. Machine for making covered boxes. 1,677,390; July 17.

Jones, Caradoc L., Chicago Heights, Ill. Coating machine. 1,677,453; July 17.
Jones, Edgecombe M., Utica, N. Y. Bleaching composition. 1,677,283; July 17.
Jones, Josiah L., St. Petersburg, Fla. Melted-ice water. 1,677,454; July 17.
Jones, Josiah L., St. Petersburg, Fla. Melted-ice-water cooler. 1,677,455; July 17.
Jones, Willis H., Buffalo, N. Y. Pipe-flange wrench. 1,677,637; July 17.
Jordan, Otto. (See Drossbach, O., and Jordan.)
Jost, Albert, Yonkers, N. Y. Saftey device for airplanes. 1,677,638; July 17.
Joughin, Robert, Waikino, New Zealand. Adapting motor tractors for haulage purposes on rail or tram lines. 1,677,184; July 17.
Joyner, Laurie, Philadelphia, Pa. Cylinder cock. 1,677,781; July 17.
Kadel, Byers W., Baltimore, Md., assignor to The Symington Company, New York, N. Y. Side frame. 1,677,347; July 17.
Kaelma Manufacturing Company. (See Snyder, George C., assignor.)
Kaempfer, Wilhelm. (See Nagel, O., and Kaempfer.)
Kalmer, Richard V., assignor to The English & Mersick Co., New Haven, Conn. Latch for vehicle doors. Re17,035; July 17.
Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Receiver. 1,677,185; July 17.
Kallmeyer, Theophilus, Wilmington, Calif. Aparatus for lifting oil in oil wells. 1,677,349; July 17.
Kamerick, Martin T., Pella, Iowa. Tractor hitch. 1,677,639; July 17.
Kantorowicz, Julius, Breslau, Germany, assignor to W. H. Fain, Greenwich, Conn. Treating starch. 1,677,348; July 17.
Karcher, John C., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Increasing the permeability of silicon steel. 1,677,139; July 17.
Kearney, James R., Kansas City, Mo. Electric connection. 1,677,783; July 17.
Keller, Ferdinand, Offenbach-on-the-Main-Burgel, and K. Schnitzspahn, Offenbach-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Solid diazosalts of ortho-amino-phenolarylethers. 1,677,558; July 17.
Keller, Ferdinand, Offenbach-on-the-Main-Burgel, and K. Schnitzspahn, Offenbachion-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Solid diazosalt. 1,677,640; July 17.
Keller, George W., Portsmouth, Ohio. Low-water alarm. 1,677,830; July 17.
Kelley-Koett Manufacturing Company, The. (See Werner, Wilbur S., assignor.)
Kellogg Switchboard and Supply Company. (See Kaisling, William, assignor.)
Kelso, Joseph, Bellevue, assignor to J. R. Frailey, Fort Madison, Iowa. Flowerpot-base former. 1,677,391; July 17.
Kemp, William W. (See Frank, Felix, assignor.)
Kemp, William W., Baltimore, Md. Method of and apparatus for reducing materials by heat. 1,677,784; July 17.
Kemp, William W., Baltimore, Md. Producing combustible gas. 1,677,785; July 17.
Kenney, Patrick H., Cumberland, Md. Piston-removing device. 1,677,786; July 17.
Kerr, Harry E., assignor to The Cleveland Gas Burner and Appliance Company, Cleveland, Ohio. Gas burner. 1,677,787; July 17.
Ketterman, John S., Dallas, Tex. Building construction. 1,677,140; July 17.
Kharasch, Morris S., College Park, Ind. Water-soluble organic compound of arsenic and producing it. 1,677,392; July 17.
Kidney, Robert J., Buffalo, N. Y. Bath cabinet. 1,677,393; July 17.
Kinney, James A., Lebanon, assignor to Bethlehem Steel Company, Bethlehem, Pa. Automatic pointing and threading machine. 1,677,238; July 17.
Kinney, Justus R., Jamaica Plain, Mass. Draining pad. 1,677,641; July 17.
Kirchenbauer, Louis J., Chicago, Ill., assignor, by mesne assignments, to The R. K. Le Blond Machine Tool Company. Crank-pin lathe. Re17,040; July 17.
Kirk, William J., Wellsburg, W. Va. Internal applicator. 1,677,642; July 17.
Kitson Machine Shop. (See Surley, Robert S., assignor.)
Kivlan, John L., Boston, assignor, by mesne assignments, to W. L. Walker, Worcester, Mass. Jar-trimming machine. 1,677,239; July 17.
Kleckner, Arthur C., assignor to Webster Electric Company, Racine, Wis. Casing for electrical apparatus. 1,677,350; July 17.
Knowles, Edwin M., (See Irwin, Dewitt D., assignor.)
Knowlton, William A., Dorchester, Mass. Grate. 1,677,787; July 17.
Koch, Aloys, assignor to the firm of Perliner Stickmaschinenfabrik Shrimer, Blau & Co. G. m. b. M., Berlin, Germany. Combined guiding and feeding device for crank embroidery machines and the like. 1,677,559; July 17.
Kochendorfer, Frederic S., River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand-working mechanism. 1,677,186; July 17.
Kochendorfer, Frederic S., River Forest, Ill., and T. A. Gill, Shawinigan Falls, Quebec, Canada, assignors to Western Electric Company, Incorporated, New York, N. Y. Resistance unit. 1,677,240; July 17.
Koefoed, Gunnar. (See Wilming, Valdemar, assignor.)
Koerner, Alvin J., Freeman, S. Dak. Hog-oiling device. 1,677,560; July 17.
Koppel Industrial Car and Equipment Company. (See Schmohl, Alfred C., assignor.)
Koppers Company, The. (See Sperr, Frederick W., jr., assignor.)
Koroknay, Paul, Houston, Tex. Signal-control switch. 1,677,141; July 17.
Krantz, Hubert K. (See Baxter, H. G., and Krantz.)
Krause, Erich, assignor to the firm of Holzverkohlungs-Industrie Aktiengesellschaft, Constance, Baden, Germany. Chlorination of methane. 1,677,831; July 17.
Krehbiel, Benjamin F., Wichita, Kans. Concrete-block machine. 1,677,480; July 17.
Krieger, Isaac G., Lodi, Calif. Automobile signaling device. 1,677,351; July 17.
Kroeger, Edwin J., assignor of three-fourths to S. Lord, Akron, Ohio. Coupling. 1,677,865; July 17.
Kvanbeck, H. K. et al. (See Weed, Harley D., assignor.)
Kvanbeck, Jacob, et al. (See Weed, Harley D., assignor.)
Lakewood Engineering Company, The. (See Carr, Edward G., assignor.)
Lamatsch, Frederick, Grantwood, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Web-roll-reloading mechanism. 1,677,561; July 17.
Landis Tool Company. (See Steiner, Amos P., assignor.)
Lange, Max E., and A. L. Evans, East Cleveland, assignors to The Warner and Swasey Company, Cleveland, Ohio. Multiple-tool holder for cross slides of lathes. 1,677,143; July 17.
Langermeier, George F., Cleveland, Ohio. Storage-battery mold. 1,677,241; July 17.
Lareva, Bert A., Spokane, Wash. Vehicle brake. 1,677,481; July 17.
Larrigan, Thomas, assignor of one-half to E. Huot, Kankakee, Ill. Faucet. 1,677,242; July 17.
Larsson, Thure, assignor to Norton Company, Worcester, Mass. Segmental ring wheel. 1,677,866; July 17.
Laska, Abraham, assignor to Hipp. Didisheim Company, Inc., New York, N. Y. Watchcase. 1,677,144; July 17.
Laviano, Benjamin, J. Alesse, and S. Campagna, San Jose, Calif. Shoe stretcher. 1,677,591; July 17.
Lawson, John F., Brooklyn, N. Y. Electric welding of long seams. 1,677,832; July 17.
Layton Fire Clay Company. (See Jack, Clarence H., assignor.)
Leake, Thomas C., assignor to Bear Tractor Corporation of America, New York, N. Y. Tractor. 1,677,878; July 17.
Leake, Thomas C., assignor to Bear Tractor Corporation of America, New York, N. Y. Self-oiling bearing. 1,677,879; July 17.
Le Blond, R. K., Machine Tool Company, The. (See Kirchenbauer, Louis J., assignor.)
Lees-Bradner Company, The. (See Schurr, Charles H., assignor.)
Lehrman, Charles, Brooklyn, assignor to Levolite Co. Inc., New York, N. Y. Wall bracket. Des. 75,801; July 17.
Leibson, Shane E., St. Louis, Mo. Sun visor. 1,677,187; July 17.
Leland-Gifford Company. (See Bishop, B. S. T., and Jacobson.)
Leland-Gifford Company. (See Gifford, A. J., and Bishop, assignors.)
Leren, Nels A., Minneapolis, Minn. Counterbalancing device for window sashes. 1,677,643; July 17.
Lerner, Frank, New York, N. Y. Garment. 1,677,145; July 17.
Lesavoy, Isadore L., New York, N. Y. Garment. 1,677,188; July 17.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Electric controller. 1,677,243; July 17.
Levolite Co. Inc. (See Lehrman, Charles, assignor.)
Lewis, Charles B., and E. D. Robertson, Los Angeles, Calif. Valve equipment for oil-well pumps. 1,677,562; July 17.
Lewis, Morgan J., Massillon, assignor to E. F. Duquette, Hartville, Ohio. Key-locking electric switch. 1,677,719; July 17.
Lewis, Robert H. (See Cole, L. M., Halter, and Lewis.)
Lincks, George F., Pittsfield, Mass., assignor to General Electric Company. Electric cut-out. 1,677,720; July 17.
Lincoln Meter Company Limited, The. (See Paine, Louis A., assignor.)
Linde, Andrew H., assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Laminated cage for antifriction bearings and manufacturing such cages. 1,677,833; July 17.
Linderman, Garrett B., jr., Bethlehem, Pa., assignor, by mesne assignments, to American Meter Company, Incorporated, New York, N. Y. Meter. 1,677,834; July 17.
Linderman, Garrett B., jr., Erie, Pa., assignor to American Meter Company, Incorporated, New York, N. Y. Meter. 1,677,835; July 17.

Lindgren, Alexus C., Chicago, and A. D. Gallagher, Canton, assignors to International Harvester Company, Chicago, Ill. Tractor attachment. 1,677,482; July 17.
Lindgren, Waldemar L., assignor to A. A. Norton, Chicago, Ill. Handle for vacuum cleaners, etc. 1,677,721; July 17.
Lindley, Edward S., Lahore, Ind. Meter for fluids. 1,677,189; July 17.
Lion, Charles R., Los Angeles, Calif. Automatic sewer flusher. 1,677,352; July 17.
Lithographic Technical Foundation, Inc., The. (See Reed, R. F., and Scholl, assignors.)
Lloyd, John, Paterson, assignor of forty per cent to P. S. McLean, Bloomfield, N. J. Envelope fastening. 1,677,867; July 17.
Lloyd, Richard B., Aneroid, Saskatchewan, Canada. Snap hook. 1,677,592; July 17.
Lobner, Charles, New York, N. Y. Tie case or container. 1,677,146; July 17.
Locke Insulator Corporation. (See Robertson, John C., assignor.)
Lomax, Clarence E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic battery-charging system. 1,677,644; July 17.
Loomis, Allen, Elkhart, Ind. Octave key mechanism for wood-wind instruments. 1,677,563; July 17.
Loranger, Ubald R. (See Thayer, Allan C., assignor.)
Lord, Selden. (See Kroeger, Edwin J., assignor.)
Lovell, William V., New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Automatically-controlled vapor-converter substation. Re17,041; July 17.
Lowrie, Edward D., Detroit, assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich. Forming tapered cross-section disks. 1,677,722; July 17.
Loynes, Owen H., Woodridge, N. J., assignor to American Telephone and Telegraph Company. Modulating arrangement. 1,677,190; July 17.
Loynes, Owen H., Woodridge, N. J., assignor to American Telephone and Telegraph Company. Modulating arrangement. 1,677,191; July 17.
Lucas, Jonathan, Savannah, Ga., assignor to Lucas-Lamborn Loom Corporation, New York, N. Y. Loom. 1,677,192; July 17.
Lucas-Lamborn Loom Corporation. (See Lucas, Jonathan, assignor.)
Lusse, Joseph C. and R. J., Philadelphia, Pa. Amusement car. Des. 75,802; July 17.
Lusse, Robert J. (See Lusse, Joseph C. and R. J.)
Luthander, Thure A., San Diego, Calif. Suds-producing means. 1,677,645; July 17.
Lynn, Harry E. (See Vock, W. A., and Lynn.)
Mabey, Clinton L., Providence, R. I. Battery-box clamp. 1,677,789; July 17.
MacDonald, William A., Little Neck, N. Y., assignor to Hazeltine Corporation, Jersey City, N. J. Electron-discharge device. 1,677,355; July 17.
MacGregor, Halbert P., Clayton, assignor to MacGregor Valve Company, St. Louis, Mo. Lubricated plug valve. 1,677,525; July 17.
MacGregor Valve Company. (See MacGregor, Halbert P., assignor.)
Mackie, John H., Watervliet, N. Y. Lubricating oil. 1,677,244; July 17.
Magic Device Corporation. (See Goodchild, W., and Sclar, assignors.)
Magusiak, Daniel, Detroit, Mich. Engine. 1,677,483; July 17.
Maki, Albin, Toivola, Mich. Trap gun. 1,677,394; July 17.
Manley, Fred B., Paterson, N. J., assignor to Textiles Development Corporation, New York, N. Y. Weftless fabric. 1,677,359; July 17.
Marathon Electric Mfg. Co. (See Gilburg, Roy O., assignor.)
Marmion, Louis G. (See Sohn, F., and Marmion.)
Marsden, John E. (See Milliken, John A., assignor.)
Marshall, Norman, Waltham, Mass., assignor to Remington Arms Company, Inc. Conveying and drying apparatus. 1,677,526; July 17.
Martin, Royal E., Mansfield, Ohio. Antiskid device. 1,677,353; July 17.
Martinussen, Johannes P., Copenhagen, Denmark. Apparatus for cleaning boiler tubes. 1,677,836; July 17.
Marvel Carbureter Company. (See Guthrie, William S., assignor.)
Maschinenfabrik Augsburg-Nuernberg A. G. (See Jagschitz, Konrad, assignor.)
Mason, Claude D. (See Bradley, C. E., and Mason.)
Mathison, Frederick C., assignor of one-third to C. L. Redfield, Chicago, Ill. Bonding metal. 1,677,354; July 17.
Mattson, Alfred, et al. (See Weed, Harley D., assignor.)
Mattson, David, et al. (See Weed, Harley D., assignor.)
Maupin, Graves R., assignor to The J. Faessler Manufacturing Company, Moberly, Mo. Aligning device. 1,677,837; July 17.
Maurer, Asher, Newark, N. J. Headlight. 1,677,678; July 17.
Maxwell, Joel M., Sedalia, Mo. Bird trap. 1,677,723; July 17.

McCarthy, Joseph A., Jamaica, N. Y. Deflector-flue cap. Des. 75,803; July 17.
McClellon Locomotive Boiler Company. (See Bean, William L., assignor.)
McClure, Robert E., Warren, Ohio. Golf club. 1,677,395; July 17.
McCurdy, Ralph G., Englewood, N. J., assignor to American Telephone and Telegraph Company. Short-circuiting switch. 1,677,193; July 17.
McDonald, Samuel F., Memphis, Tenn. Preparing cake. 1,677,245; July 17.
McEwan, James, Palo Alto, Calif. Cooking utensil. 1,677,593; July 17.
McFadden, Fay, Rutland, Vt., assignor to Bay State Optical Company, Attleboro, Mass. Eyeglass frame. Des. 75,804; July 17.
McGarry, John T., assignor to The American Valve and Meter Company, Cincinnati, Ohio. Railway-switch stand. 1,677,356; July 17.
McGregor, Alexander, Burlingame, Calif. Valve. 1,677,357; July 17.
McKenna, Frank J., assignor to Chemical Preparations, Inc., New York, N. Y. Hair-waving solution. 1,677,246; July 17.
McKesson, Elmer I., Toledo, Ohio. Gas measuring. 1,677,147; July 17.
McKillop, Lambert, Copetown, Ontario, Canada. Temper screw. 1,677,358; July 17.
McKinley, William F., Little Rock, Ark. Alarm clock. 1,677,790; July 17.
McLean, Philip S. (See Lloyd, John, assignor.)
McMichael, John L., trustee. (See Nice, Budd G., assignor.)
Mell, Tod J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Sheet material and making and mounting the same. 1,677,284; July 17.
Mendoza, Arnulfo, North Bergen, N. J. Toothbrush. 1,677,194; July 17.
Mergott, J. E., Co. (See Hiering, William C., assignor.)
Merrill, Allan B., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Composite product and making same. 1,677,360; July 17.
Merriman, Carroll L., assignor to Wayne Company, Fort Wayne, Ind. Liquid measuring and dispensing apparatus. 1,677,285; July 17.
Mescher, Henry J., Dayton, Ohio. Radiator cap. 1,677,594; July 17.
Metropolitan Lamp Co., Inc. (See Zweig, Joseph, assignor.)
Metropolitan-Vickers Electrical Company. (See Brown, Walter J., assignor.)
Metropolitan-Vickers Electrical Company Limited. (See Robinson, Ernest Y., assignor.)
Meyers, Emil, et al. (See Miller, Hugo, assignor.)
Meyers, Raymond L., Miami, Fla. Stormproof awning. 1,677,646; July 17.
Meyrowitz, E. B., Inc. (See Cook, William N., assignor.)
Michael, J., & Co. (See Ullmann, F., and Trewendt, assignors.)
Michaels, Fred D. (See Stone G. B., and Michaels.)
Michigan Wire Goods Company. (See Smith, Benjamin H., assignor.)
Mickel, Clifford G., Berryton, Kans. Triangle. 1,677,396; July 17.
Middleton, Charles O. (See Gary, Wright W., assignor.)
Midgley, Ronald W. (See Parsons, C. A., Rosen, Grey, and Midgley.)
Miller, Hugo, assignor of one-fourth to Mrs. I. Steinert and one-fourth to E. Meyers, Colby, Wis. Fence construction. 1,677,195; July 17.
Miller, Thomas, Brooksville, Key. Tobacco press. 1,677,724; July 17.
Milliken, John A., Ambler, assignor to J. E. Marsden, Philadelphia, Pa. Grinding apparatus. 1,677,484; July 17.
Mills, Fred L., Oak Park, assignor to Mills Novelty Company, Chicago, Ill. Safety catch device. 1,677,647; July 17.
Mills Novelty Company. (See Mills, Fred L., assignor.)
Milne, Winford G., assignor to The N. Slater Company, Limited, Hamilton, Ontario, Canada. Pole top fixture for transmission lines. 1,677,456; July 17.
Miozzi, Philip. (See Bauer, E., and Miozzi.)
Mishawaka Rubber and Woolen Manufacturing Company. (See Bradley, C. E., and Mason, assignors.)
Mitchell, Lewis J. (See Haas, C. H., and Mitchell.)
Mix, William J. (See Mueller, Philip, and L. W., and Mix.)
Mix, William P. (See Meuller, Philip and R. H., and Mix.)
Mizer, Joseph J. (See Walker, W. H., Mizer, and Dearsley.)
Mock, Hugo, New York, N. Y. Tea bag. 1,677,397; July 17.
Modern Management Corporation. (See Harnsberger, Harry H., assignor.)
Modine, Arthur B., Racine, Wis. Heat-exchange unit. 1,677,457; July 17.
Moetteli, Arnold, Oberwinterthur, Switzerland, assignor, by mesne assignments, to Dry Quenching Equipment Corporation, New York, N. Y. Apparatus for cooling incandescent coke. 1,677,196; July 17.

Molin, Adolf G., Stockholm, Sweden. Sizing apparatus for coke or the like. 1,677,838, July 17.
Molins, Walter E., Deptford, London, England. Printing apparatus for use with cigarette machinery. 1,677,679; July 17.
Molins, Walter E., Deptford, London, England. Cigarette machinery. 1,677,680; July 17.
Moll, Walter, assignor to F. W. Goedeke, Evansville, Ind. Stove and oven door. 1,677,286; July 17.
Montels, Adrien, Buenos Aires, Argentina. Fly net for horses. 1,677,839; July 17.
Montgomery, Wallace, Central Miranda, Cuba, assignor to Edge Moor Iron Company, Edge Moor, Del. Bagasse handling. 1,677,725; July 17.
Montsinger, Vincent M., Pittsfield, Mass., assignor to General Electric Company. Transformer. 1,677,681; July 17.
Mooney, Raymond. (See Appleton, E. G., Fischer, and Mooney.)
Moore, Anthony T., New Haven, assignor to Perrys Incorporated, Waterbury, Conn. Laundry-classifying table. 1,677,648; July 17.
Moore Brothers Company. (See Dabrowski, Joseph M., assignor.)
Moore Brothers Company. (See Dibble, Claude M., assignor.)
Moore Fabric Company. (See Moore, John V., assignor.)
Moore, John V., assignor to Moore Fabric Company, Pawtucket, R. I. Tubular gauze fabric. 1,677,398; July 17.
Morgan, Edmund C., deceased; O. E. Morgan, executrix, New York, N. Y. Chain cutter and cutting kerfs. 1,677,399; July 17.
Morgan, Edmund C., deceased, by O. E. Morgan, executrix, New York, N. Y. Lubricating mechanism for sprocket chains. 1,677,649; July 17.
Morgan, Olive E., executrix. (See Morgan, Edmund C.)
Morland & Impey Limited. (See Power, Richard F., assignor.)
Morningstar, Alvie S. (See Beck, A. C., and Morningstar.)
Morris, Howard I., assignor to The Cord Tire Machine Company, Cleveland, Ohio. Cord-fabric and tire making machine. 1,677,400; July 17.
Morris, Howard I., assignor to The Cord Tire Machine Company, Cleveland, Ohio. Apparatus for making tires or tire carcases. 1,677,401; July 17.
Morris, Howard I., assignor to Cord Tire Machine Company, Cleveland, Ohio. Apparatus for making tires or tire carcases. 1,677,402; July 17.
Morrison, Willard L., Melrose, Mass. Closure cap. 1,677,403; July 17.
Mosaic Tile Company, The. (See Herrold, Russell P., assignor.)
Moses, Louis, Brooklyn, N. Y. Display device. 1,677,840; July 17.
Mottlau, August J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Temperature time-control device. 1,677,361; July 17.
Mower-Guiden Annis, Inc. (See Annis, Ralph R., assignor.)
Mueller, Adolph, trustee. (See Mueller, P., and Schuermann, assignors.)
Mueller, Adolph, trustee. (See Mueller, Philip and L. W., and Mix, assignors.)
Mueller, Adolph, trustee. (See Mueller, Philip and R. H. and Mix, assignors.)
Mueller, Lucien W. (See Mueller, Philip and L. W. and Mix.)
Mueller, Philip, and A. C. Schuermann, assignors to A. Mueller, trustee, Decatur, Ill. Pop-up waste. 1,677,791; July 17.
Mueller, Philip, and A. C. Schuermann, assignors to A. Mueller, trustee, Decatur, Ill. Trimming soft-metal-pipe flanges. 1,677,792; July 17.
Mueller, Philip and L. W., and W. J. Mix, assignors to A. Mueller, trustee, Decatur, Ill. Attachment for lavatory-outlet-valve devices. 1,677,793; July 17.
Mueller, Philip and R. H., and W. J. Mix, assignors to A. Mueller, trustee, Decatur, Ill. Built-in removable valve. 1,677,794; July 17.
Mueller, Robert H. (See Mueller, Philip and R. H., and Mix.)
Murakoshi, Fred M., San Leandro, Calif. Nail stripper. 1,677,527; July 17.
Murray, Howard S., Los Angeles, Calif. Automatic cooker. 1,677,564; July 17.
Myers, Harry E., Buffalo, N. Y. Portable drier. 1,677,197; July 17.
Nagel, Otto, and W. Knempfer, assignors to Badische Maschinenfabrik & Eisengiesserei vormals G. Sebold und Sebold & Neff, Durlach, Baden, Germany. Method of and apparatus for delivering sand into molds. 1,677,726; July 17.
Nalleigh, Ellis W., Eureka, Calif. Internal-combustion turbine. 1,677,198; July 17.
Naslin, John O., Seattle, Wash. Server of household articles. 1,677,404; July 17.
National Metal Molding Company. (See Clayton, Martin M., assignor.)
Naumburg, Robert E., Winchester, Mass. Apparatus for adjusting automobile curtains. 1,677,287; July 17.
Nawlasky, Paul. (See Braunsdorf, O., Holzapfel, and Nawlasky.)
Nebel, Ernst O., Philadelphia, assignor to Oscar Nebel Co. Inc., Hatboro, Pa. Stocking. Des. 75,805; July 17.
Nebel, Oscar, Co. Inc. (See Nebel, Ernst O.)
Nelson, Elmer L., Chicago, Ill. Glazing bar. 1,677,650; July 17.
Nelson, John T., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Handle lock for pneumatic tools. 1,677,199; July 17.
Nelson, Lewen R., Peoria, Ill. Sprinkler. 1,677,485; July 17.
Nelson, Lewen R., Peoria, Ill. Lawn sprinkler. 1,677,486; July 17.
Neubert, Oskar. (See Gunzler, H., and Neubert.)
Neuhaus, Gottfried, Eberswalde, Germany. Sorting machine. 1,677,247; July 17.
New Haven Clock Co., The. (See Whitehead, Richard H., assignor.)
Newman, William E., Utica, N. Y. Rheostat. 1,677,288; July 17.
Nice, Budd G., Ogontz, assignor, by mesne assignments, to J. L. McMichael, trustee, Philadelphia, Pa. Making ball-race elements. 1,677,841; July 17.
Noble, William. (See Elliott, W. S., and Noble.)
Noecker, Joseph F., Bloomfield, Nebr. Conveyer. 1,677,487; July 17.
Noonan, William J., Mansfield, Mass. Electric roaster. 1,677,651; July 17.
Nordstrom, Arthur E. (See Higgins, F., and Nordstrom.)
Norris, W. C. (See Barney, William R., assignor.)
Northrup, Edwin F., Princeton, N. J., assignor to The Ajax Metal Company, Philadelphia, Pa. Rotary-field induction furnace. 1,677,528; July 17.
Norton, Alfred A. (See Lindgren, Waldemar L., assignor.)
Norton Company. (See Larsson, Thure, assignor.)
Novak, Izador J., assignor to Raybestos Company, Bridgeport, Conn. **Brake lining and making same.** 1,677,842; July 17.
Oakley, Clifford H. (See Rett, Carl E., assignor.)
Oakley, Clifford H., Trenton, N. J. Vulcanizing apparatus. 1,677,200; July 17.
Oakley, Clifford H., Trenton, N. J. Apparatus for continuous treatment of work under pressure. 1,677,201; July 17.
Oberdorfer, Henry D., Champaign, Ill. Portable bleacher. 1,677,362; July 17.
Oilgear Company, The. (See Ferris, John P., assignor.)
Old Hickory Furniture Company. (See Patton, William H., assignor.)
Old World Parfum Company. (See Coffman, Samuel M., assignor.)
Oliver, Ernon V., Portland, Oreg. Boiler for stills. 1,677,795; July 17.
Olivier, Georges, assignor to Societe Anonyme le Petiole Synthetique, Asnieres, France. Treating methane gas. 1,677,363; July 17.
Olsen Engine Syndicate Limited, The. (See Olsen Simon D., assignor.)
Olsen, Simon D., assignor to The Olsen Engine Syndicate Limited, London, England. Introducing oil or liquid-fuel charges into internal-combustion engines. 1,677,202; July 17.
Olsen, Walter, and S. Rasmussen, assignors to American Gas Machine Company, Albert Lea, Minn. Gas burner for stoves. 1,677,289; July 17.
Olson, John A., assignor to The S-P Manufacturing Company, Cleveland, Ohio. Piston and packing. Re17,042; July 17.
Oppenheim, Ferdinand S., New York, N. Y. Container. 1,677,565; July 17.
Ortt, Elwood K. (See Ortt, Rowley K. and E. K.)
Ortt, Rowley K. and E. K., assignors to The Clipper Manufacturing Company, Dixon, Ill. Differential mechanism. 1,677,682; July 17.
Owen-Dyneto Corporation. (See Sayre, Gordon B., assignor.)
Pade, Max H., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Apparatus for manufacturing inner tubes. 1,677,868; July 17.
Page Steel & Wire Company. (See Snedeker, James W., assignor.)
Paine, Louis A., assignor to The Lincoln Meter Company Limited, Toronto, Ontario, Canada. Meter for combining the measurement of demand and energy. 1,677,203; July 17.
Pan American Petroleum Company. (See Howes, Raymond T., assignor.)
Park Metalware Company. (See Zilliox, John, assignor.)
Parker, Donald, Fresno, Calif. Egg-case filling and inverting apparatus. 1,677,290; July 17.
Parker, Frank W., Boise, Idaho. Superpressure lubricator. 1,677,595; July 17.
Parkin, Albert S., Plaistow, England. Door hinge and support. 1,677,843; July 17.
Parks & Parks, Inc. (See Smith, Henry E., assignor.)
Parks, Roland D., Lake Linden, Mich. Yieldable support. 1,677,796; July 17.
Parry, George W., Philadelphia, Pa.; R. Parry, administratrix. Hosiery protector. 1,677,683; July 17.
Parry, Rose, administratrix. (See Parry, George W.)

Parsons, Charles A., J. Rosen, A. W. Grey, and R. W. Midgley, Newcastle-on-Tyne, England; said Rosen, Grey, and Midgley assignors to said Parsons. Stranded cable. 1,677,458; July 17.
Parsons, Charles A., J. Rosen, A. W. Grey, and R. W. Midgley, Newcastle-on-Tyne, England, said Rosen, said Grey, and said Midgley assignors to said Parsons. Stranded cable. 1,677,459; July 17.
Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Tool for cutting box strapping and the like. 1,677,684; July 17.
Patton, William H., assignor to Old Hickory Furniture Company, Martinsville, Ind. Stand or support for swings. 1,677,844; July 17.
Payne, Halsey D., Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company. Washing-machine drive. 1,677,291; July 17.
Pearson, Charles, assignor to International Harvester Company, Chicago, Ill. Stacker. 1,677,488; July 17.
Peck, Clyde A., Newton, Iowa. Figure toy. 1,677,652; July 17.
Peck, Edward, New York, N. Y. Adjustable pliers. 1,677,365; July 17.
Peebles, David D., Eureka, Calif. Treating fish. 1,677,364; July 17.
Peerless Pump Company. (See Wintroath, John A., assignor.)
Pejchar, Josef., Brooklyn, N. Y. Cuff link. Des. 75,806; July 17.
Pennington, Gordon R., Cleveland, Ohio. Shock absorber for motor vehicles. 1,677,405; July 17.
Pennsylvania Textile Mills, Inc. (See Biva, Lucien, assignor.)
Perfection Stove Company. (See Resek, Marc, assignor.)
Perkins Machine and Gear Company. (See Croft, Hiram D., assignor.)
Perl, John, Los Angeles, assignor to M. M. Cory, San Diego, Calif. Saccharification of cellulose-bearing material. 1,677,406; July 17.
Perliner Stickmaschinenfabrik Schirmer, Blau & Co. G. m. b. H. (See Koch, Aloys, assignor.)
Permier Cushion Spring Company. (See Stiles, Douglas S., assignor.)
Perrys Incorporated. (See Moore, Anthony T., assignor.)
Person, Axel, assignor to Harvey Clapp & Co., Attleboro, Mass. Bracelet construction. 1,677,204; July 17.
Peterson, Alfred J., Eland, Wis. Cultivator teeth. 1,677,596; July 17.
Peterson, Georgia, administratrix. (See Peterson, Gust A.)
Peterson, Gust A., deceased; G. Peterson, administratrix, assignor of one-half to G. E. Sellstrom, Chicago, Ill. Goggles and the like. 1,677,566; July 17.
Pfannmüller, Wilhelm. (See Sator, K., and Pfannmüller.)
Philippi, Frank, Philadelphia, Pa. Utility case. 1,677,653; July 17.
Pickering, Joseph W., Topeka, Kans. Plasterer's float. 1,677,366; July 17.
Pierce, Walter H., Watertown, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,677,869; July 17.
Pierce, Walter H., Watertown, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,677,870; July 17.
Pinney, Mary M., Hagerstown, Md. Serving dish. 1,677,845; July 17.
Pitts, Edmund M., assignor to Sunland Sales Cooperative Association, Fresno, Calif. Display container. 1,677,654; July 17.
Plass, Robert H., Upper Montclair, N. J., assignor to Poloris Company, Inc., New York, N. Y. Poultice-making machine. 1,677,685; July 17.
Pollak, Alfred, Vienna, Austria. Manufacture of yeast, especially by the aeration process. 1,677,529; July 17.
Poloris Company. (See Plass, Robert H., assignor.)
Polysius, G. (See Hasselbach, Alexander, assignor.)
Pope, Arthur W., jr., assignor to Waukesha Motor Co., Waukesha, Wis. Valve mechanism. 1,677,460; July 17.
Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Attaching heels. 1,677,292; July 17.
Popkin, Martin E., assignor of one-half to J. Schoeneman, Incorporated, Baltimore, Md. Cloth sponging and shrinking machine. 1,677,367; July 17.
Potts, Allen D. (See Howard, L. E., and Potts.)
Powell, A. L., Power Company Incorporated. (See Powell, Alvah L., assignor.)
Powell, Alvah L., Cleveland, Ohio, assignor, by mesne assignments to The A. L. Powell Power Company, Incorporated. Internal-combustion engine. 1,677,407; July 17.
Powell, George E., Chicago, Ill., assignor of one-half to E. E. Shugart, Council Bluffs, Iowa. Land and water vehicles. 1,677,846; July 17.
Power, Richard F., London, assignor to Morland & Impey, Limited. Birmingham, England. Loose-leaf-securing mechanism. 1,677,461; July 17.
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Steel retainer. 1,677,530; July 17.
Pressley, Jackson H., Long Branch, N. J. Vacuum-tube-control device. 1,677,727; July 17.
Prentice, George E., Berlin, Conn. Fastener. 1,677,408; July 17.
Prest-O-Lite Storage Battery Corporation. (See Benner, Raymond C., assignor.)
Price, William E., White Plains, N. Y. Mounting for lanterns. 1,677,489; July 17.
Pro-phy-lac-tic Brush Company. (See Elliot, W. S., and Noble, assignors.)
Propst, Jacob Y., Ohatchee, Ala. Propelling boats. 1,677,847; July 17.
Prothers, Harold V., New York, N. Y., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Blanket-napping machine. 1,677,293; July 17.
Prudden, Theodore M., Grafton, Mass. Ball-bearing spindle construction. 1,677,686; July 17.
Prulett, Charles L., Oil Center, Calif. Stuffing box. 1,677,848; July 17.
Pugh, Emerson, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Device for welding parts. 1,677,205; July 17.
Pugh, Emerson, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric welding. 1,677,206; July 17.
Putt, Edward D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-finishing machine. 1,677,871; July 17.
Raddatz, Richard. (See Rogers, H. S., and Raddatz.)
Radio Corporation of America. (See Weinberger, Julius, assignor.)
Rainbow Light, Inc. (See Stokes, John F., assignor.)
Raney, Clemma R., Riverside, and A. E. W. Johnson, assignors to International Harvester Company, Chicago, Ill. Bagging platform and carrier attachment for harvester threshers. 1,677,490; July 17.
Ransome Concrete Machinery Company. (See Bushnell, James E., assignor.)
Rasmussen, Sophus. (See Olsen, W., and Rasmussen.)
Raybestos Company. (See Novak, Izador J., assignor.)
Redfield, Casper L. (See Mathison, Frederick C., assignor.)
Reed, Dudley, Canton, Ohio. Float valve. 1,677,687; July 17.
Reed, Robert F., Norwood, Ohio, and W. Scholl, Washington, D. C., assignors to The Lithographic Technical Foundation, Inc., New York, N. Y. Dampening system for planographic presses. 1,677,655; July 17.
Rees, Alphy, assignor of one-third to E. A. Webb, Coalinga, Calif. Aircraft. 1,677,688; July 17.
Reid, Reginald N., Edinburgh, Scotland. Calendar clock. 1,677,872; July 17.
Reinbold, Robert, St. Paul, Minn. Soldering device. 1,677,248; July 17.
Reiser, John A., Port Jervis, N. Y. Measuring cap for bottles. 1,677,567; July 17.
Remington Arms Company. (See Marshall, Norman, assignor.)
Renetzky, Frank X., Kansas City, Mo. Top and spinner therefor. 1,677,368; July 17.
Republic Brass Company, The. (See Bloch, Leon, assignor.)
Resek, Marc, Cleveland Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Oil stove. 1,677,597; July 17.
Resek, Marc, Cleveland Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Valve. 1,677,598; July 17.
Reserve Holding Company. (See Stehlik, Rudolph F., assignor.)
Rett, Carl E., Akron, Ohio, assignor to C. H. Oakley, Trenton, N. J. Continuous vulcanizer. 1,677,207; July 17.
Rhodes-Hochriem Manufacturing Co. (See Hochriem, Gustav F., assignor.)
Ricardo, Harry R., London, England. Making sleeve valves. 1,677,249; July 17.
Rice, George L., Chicago, Ill., assignor to International Harvester Company. Twine ball. 1,677,491; July 17.
Richardson, Horace G. (See Horton, E. W., and Richardson.)
Rile, Frederick C., Chicago, Ill. Cuff button or similar article. Des. 75,807; July 17.
Ring Pneumatic Tool Company. (See Butler, J. M., and Torson, assignors.)
Ringier & Co. Verlagsanstalt & Vereinigte Buch- & Steindruckereien. (See Fuchs, Friederich, assignor.)
Ritter, Frank M., assignor of three-fourths to J. V. Hutchins, Washington, D. C. Lawn-mower attachment. 1,677,250; July 17.
Ritter, George, Woodbridge, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Apparatus for heating sheet material in preparation for folding. 1,677,492; July 17.
Rix, Edward A., Oakland, Calif. Fluid compressor. 1,677,369; July 17.
Roach-Appleton Manufacturing Company. (See Appleton, E. G., Fischer, and Mooney, assignors.)
Roberts, Frank B., and W. G. Huntington, Anaheim, Calif. Sorting table. 1,677,656; July 17.
Roberts, George H., assignor to B. A. Ballou & Co., Inc., Providence, R. I. Clasp. 1,677,849; July 17.
Robertson, Edgar D. (See Lewis, C. B., and Robertson.)
Robertson, John C., Annapolis, assignor to Locke Insulator Corporation, Baltimore, Md. Insulator-assembling jig. 1,677,294; July 17.
Robinet, Georges, Paris, France. Container for dental impression outfits. 1,677,493; July 17.

Robinson, Charles B. (See Carty, Richard S., assignor.)
Robinson, Ernest Y., Withington, England. System of reception for modulated-wave telegraphy and telephony. 1,677,797; July 17.
Robinson, Ernest Y., Manchester, assignor to Metropolitan-Vickers Electrical Company Limited, London, England. Vacuum tube. 1,677,850; July 17.
Robinson, Ernest Y., Lymm, England, assignor to Metropolitan-Vickers Electrical Company Limited. Vacuum tube. 1,677,851; July 17.
Robinson, John D. M., Roydon, England. Facilitating locomotion on foot. 1,677,728; July 17.
Robinson, Lewis T., and C. A. Sabbah, Schenectady, N. Y., assignors to General Electric Company. Vapor electric device. 1,677,689; July 17.
Robirds, Roland B. (See Sumpter, B. F., Winfree, and Robirds.)
Rockwell, Edward A., New York, N. Y. Motor-indicating system. 1,677,494; July 17.
Roebuck, Alvah C., assignor to The Enterprise Optical Manufacturing Company, Chicago, Ill. Arc-lamp motor feed. 1,677,657; July 17.
Roewade, Edward E., Chicago, Ill., asignor to Wright & Ditson-Victor Co., New York, N. Y. Football shoe. 1,677,370; July 17.
Röger, Karl, Berlin, H. Schoenleben, and F. Walther, Plauen, Germany. Matrix-setting and type-line-casting machine. 1,677,462; July 17.
Rogers, Homer S., and R. Raddatz, assignors to Combustion Fuel Oil Burner Company, Milwaukee, Wis. Automatic safety control for oil burners. 1,677,295; July 17.
Rohrer, William L., New York, N. Y. Dashboard-type heat indicator. 1,677,208; July 17.
Rose, Bruce E., Stockton, and G. Woolwine, Empire, Calif. Scraper. RE17,044; July 17.
Rose, Dalton K., assignor to J. H. Zumbalen, St. Louis, Mo. Surgical instrument. 1,677,209; July 17.
Rose, George F., Hyndsville, N. Y. Typewriting machine. 1,677,210; July 17.
Rosen, Jessel. (See Parsons, C. A., Rosen, Grey, and Midgley.)
Rosenbaum, Bruno, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Wireless telegraphy and telephony. 1,677,296; July 17.
Rosner, Rudolph, Chicago, Ill. By-pass valve for gas-washing apparatus. 1,677,148; July 17.
Ross, Nathaniel C., Fort Wayne, Ind. Toilet-seat protector. 1,677,211; July 17.
Roth Brothers & Co. (See Williams, Ralph T., assignor.)
Rother, Elwood W., Indianapolis, Ind. Oil burner. 1,677,371; July 17.
Rother, Rudolph, Tamaqua, Pa. Automobile hoisting device. 1,677,297; July 17.
Rothstein, Anna. (See Ulman, Rosana dil F., assignor.)
Rottmann, Fritz, and F. Brohmeyer, Bovinghausen, Germany. Absorption plant for gases and vapors. 1,677,409; July 17.
Rouanet, Louis, assignor to Compagnie d'Applications Mecaniques, Ivry-Port, France. Fixed support for spare wheels. 1,677,212; July 17.
Ruberoid Company, The. (See Abraham, Herbert, assignor.)
Ruckstell Sales & Manufacturing Company. (See Burkhardt, Harry L., assignor.)
Ruhling, Bernard A., Elkhart, Ind. Sheet rubber. 1,677,372; July 17.
Ruths, Johannes, Djursholm, assignor to Aktiebolaget Vaporackumulator, Stockholm, Sweden. Steam plant. 1,677,798; July 17.
S-P Manufacturing Company, The. (See Olson, John A., assignor.)
Sabbah, Camille A. (See Robinson, L. T., and Sabbah.)
Sackrider, Frank E. (See Whaley, Emery G., assignor.)
Saffold, James W., Cleveland, Ohio. Chain tool. 1,677,251; July 17.
Saffold, James W., Cleveland, Ohio. Chain tool. 1,677,658; July 17.
Saffold, James W., Cleveland, Ohio. Chain tool. 1,677,659; July 17.
Salvaggio, Rosario, New Orleans, La. Twine holder. 1,677,799; July 17.
Sams, Charles L., Bridgeport, Ohio. Automatic cut-off valve for gas lines. 1,677,729; July 17.
Sandin, Maurits J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal plug cut-out. 1,677,298; July 17.
Sanger, Otto C., Hazen, N. Dak. Baby walker. 1,677,213; July 17.
Santa Barbara Lumber Company. (See Cummings, Earle W., assignor.)
Santschi, Arthur E., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrically-heated apparatus. 1,677,214; July 17.
Sargent & Company. (See Carroll, William J., assignor.)
Sato, Sadasuke, San Francisco, Calif. Lamp shade. 1,677,660; July 17.
Sator, Karl, and W. Pfannmüller, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of paraformaldehyde. 1,677,730; July 17.
Sautermeister, Carl, Wiesbaden, Germany, and F. Wilhelm, Ploesti, Rumania. Working up acid resins obtained from the refining of mineral-oil derivatives into neutral bitumens. 1,677,731; July 17.
Sayre, Gordon B., assignor to Owen-Dyneto Corporation, Syracuse, N. Y. Mounting for windshield wipers. 1,677,215; July 17.
Schade, Frederik, Copenhagen, Denmark. Method and machine for the producing of tightly-coiled paper. 1,677,599; July 17.
Schaefer, Adolph A., Buffalo, N. Y., assignor to Frontier Manufacturing Company, North Tonawanda, N. Y. Device for testing lubricating oils. 1,677,690; July 17.
Schaefer, Joseph J., jr., Dayton, Ohio. Textile lubricant and process. 1,677,852; July 17.
Schauer, Paul, Zehlendorf, near Berlin, Germany. Rotary compressor. 1,677,216; July 17.
Scheidegger, Paul. (See Gams, A., and Scheidegger.)
Scheilberg, Oscar B., New York, N. Y. Liquid-flow regulator. 1,677,732; July 17.
Schiffner, Joseph, La Gloria, Cuba. Sugar-hauling apparatus. 1,677,733; July 17.
Schippel, Henry F. (See Graham, T. G., and Schippel.)
Schleicher, Frank J., St. Louis, Mo. Box. Des. 75,808; July 17.
Schlosshauer, Alfred, Berlin, Germany. Central lubricating apparatus for stiff lubricants. 1,677,661; July 17.
Schmitt, Henry, Detroit, Mich. Motor boat. 1,677,495; July 17.
Schmohl, Alfred C., Beaver Falls, assignor to Koppel Industrial Car and Equipment Company, Pittsburgh, Pa. Adjustable sill step for railway dump cars. 1,677,373; July 17.
Schneider, Clara. (See Gross, Fred G., assignor.)
Schneider, Hermann. (See Straub, F., Schneider, and Spieler.)
Schneider, Stephan, Meissen, Saxony, Germany, assignor to Westinghouse Electric & Manufacturing Company, Electric steam boiler. 1,677,299; July 17.
Schnitzspahn, Karl. (See Keller, F., and Schnitzspahn.)
Schoeneman, J., Incorporated. (See Popkin, Martin E., assignor.)
Schoenleben, Hans. (See Röger, K., Schoenleben, and Walther.)
Scholl, Walter. (See Reed, R. F., and Scholl.)
Schuermann, Anton C. (See Mueller, P., and Schuermann.)
Shumer Brothers Company, The. (See Schumer, John.)
Schumer, John, assignor to The Schumer Brothers Company, Cincinnati, Ohio. Finger ring. Des. 75,809; July 17.
Schurr, Charles H., assignor to The Lees-Bradner Company, Cleveland, Ohio. Machine for hobbing or cutting gears. 1,677,853; July 17.
Schurr, Henry, Philadelphia, Pa. Window-shade cleaner. 1,677,252; July 17.
Schutte, August E., Northboro, assignor to Warren Brothers Company, Cambridge, Mass. Construction of street pavements. 1,677,600; July 17.
Schwab, Edward L., Chicago, Ill. Cabinet. 1,677,410; July 17.
Schweitzer, Wilhelm H., Heidelberg, Germany, assignor, by mesne assignments, to American Lanil Corporation, Manufacture of textile fibers from animal hair and bristles. 1,677,149; July 17.
Sclar, Nathan. (See Goodchild, W., and Sclar.)
Scofield, Edgar, New York, assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Friction cap for bottles and jars. 1,677,253; July 17.
Scotti, Carlo. (See Diamant, Sigismondo, assignor.)
Scoville Eugene M. Milwaukee Wis. assignor of one-half to F. L. Swanberg, Pittsburgh, Pa. Flow meter. 1,677,411; July 17.
Scranton, Henry O., La Fayette, La. Transfer mechanism for sugar canes. 1,677,601; July 17.
See, Oscar J., Peoria, Ill. Oil burner. 1,677,800; July 17.
Segal Lock & Hardware Co. (See Segal, Samuel, assignor.)
Segal, Samuel, assignor to Segal Lock & Hardware Co. Inc., New York, N. Y. Sash fastener. 1,677,300; July 17.
Seghers, Emiel P., Chicago, Ill. Tire deflater. 1,677,301; July 17.
Sellstrom, Gust E. (See Peterson, Gust A., assignor.)
Selvig, John N., Chicago, Ill., assignor to Western Electric Company Incorporated, New York, N. Y. Material-unwinding device. 1,677,217; July 17.
Sessions, Charles R., San Francisco, Calif., assignor of one-half to J. A. Dent, Lawrence, Kans. Critical-speed control. 1,677,496; July 17.
Sexton, Thomas D. (See Harrison, Arthur W., assignor.)
Shand, George, St. James, Minn. Bed. 1,677,218; July 17.
Shanton, Ira A., St. Petersburg, Fla. Spring teetering toy. 1,677,531; July 17.
Shanton, Ira A., Hollywood, Calif. Exercising plaything. 1,677,532; July 17.
Shantz, Vivian F., et al. (See Woodman, Mark G., assignor.)
Sheeley, Earl, assignor to Wright Manufacturing Company, Inc., Philadelphia, Pa. Vigil light cup. Des. 75,810; July 17.
Short, Wayne F., Bloomington, Ind. Combination airplane and zeppelin. 1,677,150; July 17.

Shugart, Elmer E. (See Powell, George E., assignor.)
Siemens & Halske, Aktiengesellschaft. (See Albrecht, Dieter, assignor.)
Siemens & Halske Aktiengesellschaft. (See von Beckerath, Hans, assignor.)
Silcock Airradiator Corporation. (See Daun, Carl L., assignor.)
Silverstein, Oscar. (See Van Valkenberg, Eber H., assignor.)
Simkins, Howard D., and J. Burkhardt, Cleveland, Ohio, assignors to The Superior Screw & Bolt Manufacturing Company. Machine for making nut blanks and similar articles. 1,677,151; July 17.
Simmons Company. (See Gail, John F., assignor.)
Simonds Saw and Steel Company. (See Howard, L. E., and Potts, assignors.)
Sinclair Refining Company. (See Herthel, E. C., and Tifft, assignors.)
Sivertsen, Peter, New York, N. Y. Abrading device. 1,677,497; July 17.
Skwierawski, Walter, Milwaukee, Wis. Bottle washer. 1,677,571; July 17.
Slater, N., Company, The. (See Milne, Winford G., assignor.)
Slauson, Louis E., Rock Island, Ill. Traction wheel 1,677,568; July 17.
Sleeper, Harvey P., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay. 1,677,302; July 17.
Smith, Arthur R., Schenectady, N. Y., assignor, by mesne assignments, to Bailey Meter Company. Measuring a substance carried in suspension by a second substance. 1,677,691; July 17.
Smith, Benjamin H., assignor to Michigan Wire Goods Company, Niles, Mich. Basket handle. 1,677,152; July 17.
Smith, Harry C., Arlington, assignor to Blake Electric Mfg. Company, Boston, Mass. Selvage-opening device. 1,677,303; July 17.
Smith, Henry E., assignor to Parks & Parks, Inc., Troy, N. Y. Brush. Des. 75,811; Juy 17.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Accounting-machine demonstration chart. 1,677,569; July 17.
Smith, Leo O., assignor to Columbia Machine Works and Malleable Iron Co., Brooklyn, N. Y. Connecter. 1,677,734; July 17.
Smith, Raymond D., Pleasantville, N. Y., assignor, by mesne assignments, to Tremont Products Corporation, Boston, Mass. Imitative candle fitting. 1,677,412; July 17.
Smith, Sydney, London, England, assignor to The Wellman-Seaver-Morgon Company, Cleveland, Ohio. Pick-up and centering device for billet-handling machines. 1,677,873; July 17.
Smith, Sydney, London, England, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Pick-up and centering device for billet-handling machines. 1,677,874; July 17.
Smith, William H., Norristown, assignor, by mesne assignments, to Electric Service Supplies Company, Philadelphia, Pa. Apparatus for undercutting pin holes in the center shells of insulators. 1,677,498; July 17.
Smith William J., Philadelphia, Pa. Rotary valve. 1,677,499; July 17.
Snedeker, James W., Adrian, Mich., assignor to Page Steel & Wire Company, Toy woodpecker. 1,677,463; July 17.
Snyder, George C., assignor to Kaelma Manufacturing Company, Inc., New York, N. Y. Method of and machine for conditioning sheet articles and of and for applying minor members to sheet articles, such as envelopes for example. 1,677,735; July 17.
Snyder, George C., assignor to Kaelma Manufacturing Company, Inc., New York, N. Y. Method of and machine for applying minor members to sheet articles. 1,677,736; July 17.
Societe Anonyme le Petrole Synthetique. (See Olivier, Georges, assignor.)
"Société d'Emboutissage et de Constructions Mécaniques." (See Amiot, Felix, assignor.)
Société des Condenseurs Delas. (See Delas, Albert, assignor.)
Society of Chemical Industry in Basle. (See Gams, A., and Scheidegger, assignors.)
Society of Chemical Industry in Basle. (See Straub, F., Schneider, and Spieler, assignors.)
Sode, Frank E., Chicago, Ill. Hydrometer. 1,677,801; July 17.
Sohn, Frank, Chicago, and L. G. Marmion, Villa Park, Ill., assignors to The Vitrolite Company. Tile or article of similar nature. Des. 75,812; July 17.
Sohn, Frank, Chicago, and L. G. Marmion, Villa Park, Ill., assignors to The Vitrolite Company, Chicago, Ill. Tile or article of similar nature. Des. 75,813; July 17.
Southern Textile Machinery Co. (See Gramse, Roy A., assignor.)
Spencer, Charles H., Los Angeles, Calif. Treating soils to promote plant growth. 1,677,153; July 17.
Sperr, Frederick W., jr., Pittsburgh, Pa., assignor to The Koppers Company. Gas-purification process. 1,677,304; July 17.
Sperry Development Company, The. (See Sperry, Elmer A., assignor.)
Sperry, Elmer A., assignor to The Sperry Development Company, Brooklyn, N. Y. Two-cycle supercharging combustion engine. 1,677,305; July 17.
Sperry Gyroscope Company, The. (See Hall, Theodore, assignor.)
Spieler, Joseph. (See Straub, F., Schneider, and Spieler.)
Spieth, William C., Geneva, Ohio. Arc lamp. 1,677,602; July 17.
Sprinkle, Jake H., Brooklyn, N. Y. Artificial teeth. 1,677,662; July 17.
Spurges, Charles, De Kalb, Ill. Swimming device. 1,677,254; July 17.
Staats, Oshel C., Ripley, W. Va. Radio tuning device. 1,677,254; July 17.
Stade, Charles E., New York, N. Y. Muffler. 1,677,570; July 17.
Staehle, Gustav, Stuttgart, Germany, assignor to "Cyklop" Akt. Ges., Schaffhausen, Switzerland. Electrically-actuated surfacing machine. 1,677,533; July 17.
St. Amour, Moses E., Faust, N. Y. Overalls. 1,677,663; July 17.
Stancliff, Clifton L., Bakersfield, Calif. Electric welding tongs. 1,677,306; July 17.
Standard Heater Company. (See Gillett, Merriman C., assignor.)
Standard Textile Products Company, The. (See Dieck, Henry W., assignor.)
Stanley Works, The. (See Parsons, Stuart W., assignor.)
Staubli, Hugo, Zurich, assignor to Gebr. Staubli & Co., Horgen, Switzerland. Apparatus for the driving of a pattern mechanism or shed-forming machine. 1,677,255; July 17.
Steel Wheel Corporation. (See Forsyth, George H., assignor.)
Steel Wheel Corporation. (See Lowrie, Edward D., assignor.)
Steen, Svend A., assignor to Dadhams Oil Company, Milwaukee, Wis. Grease-gun grease container. 1,677,603; July 17.
Stehlik, Rudolph F., Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Automatic telephone system. 1,677,413; July 17.
Stehlik, Rudolph F., Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo., Automatic telephone system. 1,677,414; July 17.
Steinbrenner, Henry G., Cleveland, Ohio, assignor, by mesne assignments, to Industrial Brownhoist Corporation. Controlling the driving gear of locomotive cranes. 1,677,374; July 17.
Steiner, Amos P., assignor to Landis Tool Company, Waynesboro, Pa. Automatic sizing device for grinding machines. 1,677,307; July 17.
Steinert, (Mrs.) Ida, et al. (See Miller, Hugo, assignor.)
Stember, Bernard, New York, N. Y. Bag fastener. 1,677,154; July 17.
Stevens, Arthur L., assignor to Arthur L. Stevens Corporation, Chicago, Ill. Operating open-hearth furnaces. 1,677,664; July 17.
Stevens, Arthur L., Corporation. (See Stevens, Arthur L., assignor.)
Stiles, Douglas S., assignor to Premier Cushion Spring Company, Detroit, Mich. Rim-frame construction. 1,677,500; July 17.
Stokes, Charles L., Los Angeles, Calif. Inflating and driving an aerial machine and means therefor. 1,677,308; July 17.
Stokes, John F., New York, N. Y., assignor to Rainbow Light, Inc. Electrical cut-out. 1,677,692; July 17.
Stone, George B., Los Angeles, and F. D. Michaels, Fresno, Calif. Liquid draw-off. 1,677,501; July 17.
Stone, R. Harry. (See Herbst, W. K., and Stone.)
Straka, John, assignor to The Wahl Company, Chicago, Ill. Mechanical pencil. 1,677,415; July 17.
Straub, Fritz, Basel, H. Schneider, Riehen, near Basel, and J. Spieler, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Metal compound of azo dyestuff and making same. 1,677,534; July 17.
Streeter, Albert B., assignor to Dual Motors Corporation, New York, N. Y. Fuel intake for two-cycle engines. 1,677,604; July 17.
Strobino, Gaston, Paterson, N. J. Sound reproducer. 1,677,605; July 17.
Struble, James F., Hutchinson, Kans. Well pump. 1,677,802; July 17.
Sumpter, Benjiman F., Wichita Falls, Tex., D. E. Winfree, Chickasha, Okla., and R. B. Robirds, Wichita Falls, Tex. Oil well derrick. 1,677,738; July 17.
Sunland Sales Cooperative Association. (See Pitts, Edmund M., assignor.)
Superior Engineering Company. (See Claflin, Charles A., assignor.)
Superior Screw & Bolt Manufacturing Company, The (See Simkins, H. D., and Burkhardt, assignors.)
Surface Combustion Company. (See Hepburn, William M. assignor.)
Surface Combustion Company. (See Vaughn, Sidney P., assignor.)

Sussmann, Hugo, Chemnitz, Germany. Stocking frame. 1,677,219; July 17.
Swain, Joseph G., assignor to The Firestone Steel Products Company, Akron, Ohio. Wheel. 1,677,854; July 17.
Swan, Joseph G., assignor to The Firestone Steel Products Company, Akron, Ohio. Counterweight. 1,677,855; July 17.
Swanberg, Floyd L. (See Scoville, Eugene M., assignor.)
Sweetland, Ernest J., Montclair, N. J. Gas diffuser. 1,677,502; July 17.
Sweetland, Ernest J., Montclair, N. J. Filter. 1,677,603; July 17.
Sweetser, George T., Bronxville, N. Y. Soft collar. 1,677,504; July 17.
Swift, George L., assignor to Brown & Bigelow, St. Paul, Minn. Milk-bottle cap. 1,677,155; July 17.
Symington Company, The. (See Barrows, Donald S., assignor.)
Symington Company, The. (See Kadel, Byers W., assignor.)
Szilvay, Cornelius, Budapest, Hungary. Apparatus for extinguishing fire. 1,677,875; July 17.
Tamarin, Bernard J., Philadelphia, Pa. Vacuum-cleaner handle. Des. 75,815; July 17.
Tapley, Osborne F., New York, N. Y., Metal-finishing machine. 1,677,375; July 17.
Tater-Flakes Company. (See Alexander, Harry S., assignor.)
Taylor, Albert, Henryville, Ind. Radio-receiving-set cabinet. Des. 75,814; July 17.
Taylor, Stephen H., Ludlow, Ky. Water wheel. 1,677,464; July 17.
Technicolor Motion Picture Corporation. (See Troland, Leonard T., assignor.)
Technicolor Motion Picture Corporation. (See Troland, L. T., and Ball, assignors.)
Technicolor Motion Picture Corporation. (See Weaver, Eastman A., assignor.)
Tenger, Albert R., Marshfield, Oreg. Cultivator, weeder, and digger. 1,677,803; July 17.
Tex. Engineering Corporation. (See Textorius, Knut O. B., assignor.)
Textiles Development Corporation. (See Manley, Fred B., assignor.)
Textorius, Knut O. B., assignor to Tex. Engineering Corporation, New York, N. Y. Method and machine for making cord tires. Re17,036; July 17.
Thaete, Maximilian W., assignor of one-half to M. J. Thaete, Denver, Colo. Valve-seat reamer. 1,677,465; July 17.
Thaete, Millie J. (See Thaete, Maximilian W., assignor.)
Thayer, Allan C., assignor to U. R. Loranger, Detroit, Mich. Gas scrubber for refrigerating apparatus. 1,677,804; July 17.
Thibaut, Richard E., Inc. (See Hoffman, Harry L., assignor.)
Thomson, Clarence Y., sr., Chapman Ranch, Tex., assignor to International Harvester Company. Tractor cultivator attachment. 1,677,505; July 17.
Thorpe, George E. (See Thorpe, Thomas W. and G. E.)
Thorpe, Thomas W. and G. E., Des Moines, Iowa. Producing wells and strainer shoes for the same. 1,677,606; July 17.
Thronsen, Sigurd. (See Colbeck, F. W., and Thronsen.)
Tifft, Thomas D., (See Herthel, E. C., and Tifft.)
Titeflex Metal Hose Co. (See Herbst, W. K., and Stone, assignors.)
Torson, Harry A. (See Butler, J. M., and Torson.)
Townsend, Harry E., Brooklyn, N. Y. Assembling machine. 1,677,739; July 17.
Tremont Products Corporation. (See Smith, Raymond D., assignor.)
Tregoning, William C., Cleveland Heights, Ohio. Separable electrical connection. 1,677,256; July 17.
Trewendt, Gert. (See Ullmann, F., and Trewendt.)
Trey, Serge. (See Engel-Kron, G. M., and Trey.)
Troland, Leonard T., Malden, and J. A. Ball, Wollaston, assignors, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Registering and cementing cinematographic films. 1,677,309; July 17.
Troland, Leonard T., Malden, assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Cinematographic apparatus. 1,677,310; July 17.
Trufant, Russell A., Middleboro, Mass. Barricade. 1,677,693; July 17.
Trumbull Electric Manufacturing Company, The. (See Getchell, Benjamin E., assignor.)
Tunison, Burnell R., Elizabeth, N. J. Ore concentration. 1,677,416; July 17.
Turkington, Victor H., Caldwell, N. J., assignor to Bakelite Corporation, New York, N. Y. Resinous composition and making same. 1,677,417; July 17.
Ullmann, Fritz, Charlottenburg, and G. Trewendt, assignors to J. Michael & Co., Berlin, Germany. Manufacture of arsenic acid. 1,677,257; July 17.
Ulman, Rosana dü F., assignor to A. Rothstein, Chicago, Ill. Garment. 1,677,258; July 17.
Underwood Elliott Fisher Company. (See Campbell, George W., assignor.)
Underwood Elliott Fisher Company. (See Smith, Jesse A. B., assignor.)
Union Switch & Signal Company, The. (See Gilson, Robert M., assignor.)
Unique Manufacturing Company. (See Goller, Eugene E., assignor.)
United Royalties Corporation. (See Earle, Lee E., assignor.)
United Shoe Machinery Corporation. (See Bates, Arthur, assignor.)
United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.)
U. S. Slicing Machine Company. (See Folk, Joseph, assignor.)
Universal Power Shovel Company. (See Bradley, Merrill L., assignor.)
Van Buren, John, Brooklyn, N. Y. Sealing mechanism for containers. 1,677,259; July 17.
Van Cleave, William F., assignor of one-half to R. M. Barnhart, Dallas, Tex. Fuselage for aeroplanes. 1,677,535; July 17.
Vanderbilt, R. T., Company. (See Alton, William H., assignor.)
Van Tassel Company. (See Dunham, Henry V., assignor.)
Van Valkenberg, Eber H., McKeesport, Pa., assignor of one-half to O. Silverstein, Spokane, Wash. Landing gear. 1,677,418; July 17.
Vaughn, Sidney P., U. S. Navy, Choctaw County, Miss., assignor to Surface Combustion Company, New York, N. Y. Apparatus for burning explosive gaseous mixtures. 1,677,156; July 17.
Vickery, Henry M., Oakland, Calif. Bumper. 1,677,506; July 17.
Vitrolite Company, The. (See Gibian, Eric H., assignor.)
Vitrolite Company, The. (See Gunther, L., and Gibian, assignors.)
Vitrolite Company, The. (See Sohn, F., and Marmion.)
Vock, William A., Redondo Beach, and H. E. Lynn, Torrance, Calif. Casing cutter. 1,677,507; July 17.
Vogdes, Francis B., Schenectady, N. Y., assignor to General Electric Company. Frequency-responsive instrument. 1,677,694; July 17.
Vogt, Theodore, Fairview, N. J. Automobile handling apparatus. 1,677,695; July 17.
Von Beckerath, Hans, Berlin, Germany, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Telephone system. 1,677,325; July 17.
Vortex Mfg. Co., The. (See Baur, Hugo J., assignor.)
Vossen, Bartholomäus. (See Wagner, H., and Vossen.)
Wadhams Oil Company. (See Steen, Svend A., assignor.)
Wagner, Hermann, Bad Soden-on-the-Taunus, and B. Vossen, Hochst-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. 1-methyl-2.5.6-trichloro-3-aminobenzene-4-sulphonic acid and preparing the same. 1,677,536; July 17.
Wagner, Max, assignor to Benz & Cie. Rheinische Automobil- u. Motoren-Fabrik Aktiengesellschaft, Mannheim, Germany. Steering gear. 1,677,619; July 17.)
Wahl Company, The. (See Straka, John, assignor.)
Walker Manufacturing Company. (See Walker, W. H., Mizer, and Dearsley, assignors.)
Walker, Warren H., J. J. Mizer, and I. E. Dearsley, assignors to Walker Manufacturing Company, Racine, Wis. Lifting jack. 1,677,466; July 17.
Walker, William L. (See Kivlan, John L., assignor.)
Walkley, Lucius V., Plantsville, Conn. Screw driver. 1,677,572; July 17.
Walther, Fritz. (See Röger, K., Schoenleben, and Walther.)
Warner & Swasey Company, The. (See Cole, L. M., Hulter, and Lewis, assignors.)
Warner and Swasey Company, The. (See Lange, M. E., and Evans, assignors.)
Warren Brothers Company. (See Schutte, August E., assignor.)
Watkins, Harold L., and L. J. Eveland, Los Angeles, Calif. Fabric puffer. 1,677,573; July 17.
Waukesha Motor Co. (See Pope, Arthur W., jr., assignor.)
Wayne Company. (See Merriman, Carroll L., assignor.)
Weatherhead, Albert J., jr., Cleveland, Ohio. Combined valve and pipe coupling. 1,677,740; July 17.
Weaver, Allan, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. System for measuring contact rebounding. 1,677,157; July 17.
Weaver, Eastman A., Brookline, assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Photography. 1,677,665; July 17.
Webb, Edward A. (See Rees, Alphy, assignor.)
Wechter, S., Company. (See Jaffe, Lawson L., assignor.)
Weed, Harley D., Garvin, assignor of twelve and one-half per cent to H. K. Kvanbeck and twelve and one-half per cent to J. Kvanbeck, Minneota, and seven and one-half per cent to A. Mattson and seven and one-half per cent to D. Mattson, Taunton, Minn. Rotary motor. 1,677,805; July 17.
Weinberger, Julius, New York, N. Y., assignor to Radio Corporation of America. Electric phonograph circuit. 1,677,806; July 17.
Weiss, Carl W., Brooklyn, N. Y. Universal joint. 1,677,311; July 17.
Weller, Randolph V., Rochester, N. Y. Ironing machine. 1,677,666; July 17.
Wellman-Seaver-Morgan Company, The. (See Smith, Sydney, assignor.)
Wenzel, Albert W. (See Wenzel, Jacob B., assignor.)

Wenzel, Jacob B., Bloom, Colo., assignor to A. W. Wenzel, Newark, N. J. Packing ring. 1,677,158; July 17.
Werdehoff, Albert B., Birmingham, assignor to Chrysler Corporation, Detroit, Mich. Tire carrier. 1,677,574; July 17.
Werner, Wilbur S., assignor to The Kelley-Koett Manufacturing Company, Covington, Ky. Electric transformer. 1,677,537; July 17.
Wertheimer, Leo, assignor, by mesne assignments, to Amcoin Coffee System Company, Inc., Buffalo, N. Y. Coffee urn. 1,677,221; July 17.
Webster Electric Company. (See Kleckner, Arthur C., assignor.)
Wessel, Walter, Lester, Pa., assignor to Westinghouse Electric and Manufacturing Company. Blade fastening. 1,677,807; July 17.
Westinghouse Electric & Manufacturing Company. (See Lovell, William V., assignor.)
Western Electric Company. (See Adams, Arthur H., assignor.)
Western Electric Company. (See Borgeson, Sidney E., assignor.)
Western Electric Company. (See Brown, Alfred B., assignor.)
Western Electric Company. (See Colbeck, F. W. and Thronsen, assignors.)
Western Electric Company. (See Fay, Joseph W., assignor.)
Western Electric Company. (See Ford, Ben K., assignor.)
Western Electric Company. (See Grondahl, Hans H. C., assignor.)
Western Electric Company. (See Haase, Carl O., assignor.)
Western Electric Company. (See Hodge, John C., assignor.)
Western Electric Company. (See Karcher, John C., assignor.)
Western Electric Company. (See Kochendorfer, Frederic S., assignor.)
Western Electric Company. (See Kochendorfer, F. S., and Gill, assignors.)
Western Electric Company. (See Pugh, Emerson, assignor.)
Western Electric Company. (See Santschi, Arthur E., assignor.)
Western Electric Company Incorporated. (See Selvig, John N., assignor.)
Western Electric Company. (See Whited, Burns L., assignor.)
Western Union Telegraph Company, The. (See Dudley, William A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Baxter, H. G., and Krantz, assignors.)
Westinghouse Electric & Manufacturing Company. (See Butcher, Charles A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Portescue C. L., and Evans, assignors.)
Westinghouse Electric and Manufacturing Company. (See Goldsborough, Shirley L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hengstenberg, Paul M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jackson, Ray P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mottlau, August J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Payne, Halsey D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rosenbaum, Bruno, assignor.)
Westinghouse Electric & Manufacturing Company. (See Sandin, Maurits J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schneider, Stephan, assignor.)
Westinghouse Electric & Manufacturing Company. (See Sleeper, Harvey P., assignor.)
Westinghouse Electric and Manufacturing Company. (See Wessel, Walter, assignor.)
Westinghouse Electric & Manufacturing Company. (See Woodson, James C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Zworykin, Vladimir K., assignor.)
Whaley, Emery G., assignor of one-half to F. E. Sackrider, Enid, Okla. Pressure-control device for use in coupling oil-well casing. 1,677,538; July 17.
Whitaker, William T., Alkins Park, Pa. Holder for mops. 1,677,741; July 17.
White, Jessee M., Philadelphia, Pa. Battery connecter. 1,677,312; July 17.
Whited, Burns L., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-working machine. 1,677,159; July 17.
Whitehead, Richard H., assignor to The New Haven Clock Co., New Haven, Conn. Clock case. Des. 75,816; July 17.
Whitman, Harold C., Bedford, N. Y. Blanket. 1,677,260; July 17.
Whitney, Horace E., assignor to Dover Stamping & Manufacturing Company, Cambridge, Mass. Pail. 1,677,222; July 17.
Whittall, M. J., Associates. (See Bauer, Marius A., assignor.)
Wichert, Alfred, Mannheim-Neuostheim, Germany, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Pneumatic control apparatus. 1,677,575; July 17.
Wicks, John, Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Toll-service trunking system. 1,677,876; July 17.
Wilhelm, Friedrich. (See Sautermeister, C., and Wilhelm.)
Williams, Charles H. (See Green, T. L., and Williams.)
Williams, Elmo H., Pearl Harbor, Hawaii. Device for improving stance in connection with the game of golf, 1,677,261; July 17.
Williams, Ralph T., assignor to Roth Brothers & Co., Chicago, Ill. Exit-lighting system. 1,677,696; July 17.
Wilming, Valdemar, assignor to G. Koefoed, Copenhagen, Denmark. Device for mixing amalgam for tooth fillings and stoppings. 1,677,697; July 17.
Wilson, Stephen G., Philadelphia, Pa. Polishing device. 1,677,742; July 17.
Winfree, Douglas E. (See Sumpter, B. F., Winfree, and Robirds.)
Winogradoff, Alexander, assignor to Inecto, Inc., New York, N. Y. Dyeing fibers. 1,677,508; July 17.
Winthrop Chemical Company. (See Gunzler, H., and Neubert, assignors.)
Wintroath, John A., assignor to Peerless Pump Company, Los Angeles, Calif. Oil-tube water seal. 1,677,262; July 17.
Wittig, Auguste, Eckernforde, Germany. Chamber pot. 1,677,223; July 17.
Wood, Frederick H., Chicago, Ill. Lock and seal for screws. 1,677,607; July 17.
Woodman, Mark G., assignor of one-third to D. G. Fisher and one-third to V. F. Shantz, Chicago, Ill. Manufacture of iron. 1,677,420; July 17.
Woodson, James C., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric heating unit. 1,677,313; July 17.
Woodstock Typewriter Company. (See Youngberg, Conrad D., assignor.)
Woolfenden, Henry L., Detroit, Mich. Bathtub. 1,677,160; July 17.
Wollman, Harry P., Washington, D. C. Air compressor. 1,677,539; July 17.
Woolwine, George. (See Rose, B. E., and Woolwine.)
Wright & Ditson-Victor Co. (See Roewade, Edward E., assignor.)
Wright Manufacturing Company. (See Sheeley, Earl, assignor.)
Wright, Morris S., Worcester, Mass. Electric switch. 1,677,509; July 17.
Wright, Wallace C., Brookfield, N. H., assignor to American Shoe Machinery Company, East Boston, Mass. Automatic moisture control. 1,677,856; July 17.
Wulkan, Eugene, Vienna, Austria, assignor to Haberland Manufacturing Company, Allwood, N. J. Making cold swelling starch. 1,677,314; July 17.
Wurzer, Joseph, Carroll, Iowa. Draft equalizer. 1,677,608; July 17.
Yager, George L. (See Yager, Ralph C. and G. L.)
Yager, Ralph C. and G. L., assignors to Yager Sheet Metal Company, Oakland, Calif. Louver ventilator. 1,677,421; July 17.
Yager Sheet Metal Company. (See Yager, Ralph C. and G. L., assignors.)
Youngberg, Conrad D., assignor to Woodstock Typewriter Company, Woodstock, Ill. Typewriter. 1,677,315; July 17.
Zaner-Bloser Company, The. (See Bloser, Parker Z., assignor.)
Zillox, John, assignor to Park Metalware Company, Orchard Park, N. Y. Wire coupler. 1,677,376; July 17.
Zimmerli, Adolph, New Brunswick, N. J., assignor, by mesne assignments, to Acetol Products, Inc. Apparatus for producing glass substitutes. 1,677,576; July 17.
Zimmerman, Arthur C., Dayton, Ohio. Treatment of magnesium and magnesium alloys to inhibit corrosion. 1,677,667; July 17.
Zumbalen, Joseph H. (See Rose, Dalton K., assignor.)
Zweig, Joseph, Brooklyn, assignor to Metropolitan Lamp Co. Inc., New York, N. Y. Lighting fixture. Des. 75,817; July 17.
Zworykin, Vladimir K., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Photoelectric cell. 1,677,316; July 17.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 17TH DAY OF JULY, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abrading device. P. Sivertsen. 1,677,497; July 17.
Acetylene lines, Protection of. J. L. Anderson. 1,677,225; July 17.
Acid and preparing the same, 1-methyl 2 5 6-trichloro-3-aminobenzene-4-sulphonic. H. Wagner and B. Vossen. 1,677,536; July 17.
Acid, Cyclopentenyl alkyl acetic. R. Adams. 1,677,123; July 17.
Acid, Manufacture of arsenic. F. Ullmann and G. Trewendt. 1,677,257; July 17.
Acid resins obtained from the refining of mineral-oil derivatives into neutral bitumens, Working up. C. Sauermeister and F. Wilhelm. 1,677,731; July 17.
Acids and making same, Compound of gall. A. Gams and P. Scheidegger. 1,677,554; July 17.
Adjustable seat. J. M. Dorton. 1,677,434; July 17.
Addressing machine. H. E. Hubbard. 1,677,344; July 17.
Aerial machine and means therefor, Inflating and driving an. C. L. Stokes. 1,677,308; July 17.
Aircraft. A. Rees. 1,677,088; July 17.
Air heater. T. R. Dissett. 1,677,552; July 17.
Airplane and zeppelin, Combination. W. F. Short. 1,677,150; July 17.
Airplanes, Safety device for. A. Jost. 1,677,638; July 17.
Alarm: *See*—
Low-water alarm.
Aligning device. G. R. Maupin. 1,677,837; July 17.
Animal trap. M. E. and F. G. Dorsch. 1,677,470; July 17.
Antenna. E. F. W. Alexanderson. 1,677,698; July 17.
Anti-skid device. R. E. Martin. 1,677,353; July 17.
Antrum drill. T. E. Grove. 1,677,337; July 17.
Applicator, Internal. W. J. Kirk. 1,677,612; July 17.
Applying minor members to sheet articles, Method of and machine for. G. C. Snyder. 1,677,736; July 17.
Arsenic and producing it, Water-soluble organic compound of. M. S. Kharasch. 1,667,392; July 17.
Assembling machine. H. E. Townsend. 1,677,739; July 17.
Assembling members, Method of and apparatus for. J. W. Fay. 1,677,178; July 17.
Assembly press. J. P. Ferris. 1,677,800; July 17.
Antrum drill. T. E. Grove. 1,677,337; July 17.
1,677,584; July 17.
Automobiles, Device for actuating the coupling and the brake in. V. Jessen. 1,677,718; July 17.
Awning construction. B. Cohen. 1,677,581; July 17.
Awning, Stormproof. R. L. Meyers. 1,677,646; July 17.
Baby walker. O. C. Sanger. 1,677,213; July 17.
Bag: *See*—
Coal bag.
Tea bag.
Hand bag.
Bag and cushion, Combined. H. Berton. 1,677,743; July 17.
Bagasse handling. W. Montgomery. 1,677,725; July 17.
Ball: *See*—
Twine ball.
Ball-bearing spindle construction. T. M. Prudden. 1,677,686; July 17.
Ball race elements, Making. B. G. Slee. 1,677,841; July 17.
Bar: *See*—
Glazing bar.
Towel bar.
Barricade. R. A. Trufant. 1,677,693; July 17.
Basket, Fireplace. W. T. Bailey. 1,677,540–1; July 17.
Basket handle. G. H. Smith. 1,677,152; July 17.
Bathtub. H. L. Woolfenden. 1,677,160; July 17.
Battery-charging system, Automatic. C. E. Lomax. 1,677,644; July 17.
Battery connecter. J. M. White. 1,677,312; July 17.
Battery mold, Storage. G. F. Langermeier. 1,677,241; July 17.
Battery-terminal clamp. G. Hardes. 1,677,445; July 17.
Bearing. W. F. A. Casey, G. Cavin, and C. E. Brooks. 1,677,171; July 17.
Bearing for shafts, Self-aligning. H. E. Derr, sr. 1,677,514; July 17.
Bearing, Land-roller. S. K. Dennis. 1,677,127; July 17.
Bearing, Self-oiling. T. C. Leake. 1,677,879; July 17.
Bearings and manufacturing such cages, Laminated cage for antifriction. A. H. Linde. 1,677,833; July 17.
Beater. L. E. Earle. 1,677,754; July 17.
Beating gold leaf or sheets of other metal and such like, Apparatus for. W. Blacker. 1,677,513; July 17.
Bed. G. Shand. 1,677,218; July 17.
Bending machine. J. Y. Brown and J. R. Browning. 1,677,746; July 17.

Bittel-handling machines, Pick-up and centering device for. S. Smith. 1,677,873–4; July 17.
Billiard-cue tip. T. W. and C. Guthrie. 1,677,282; July 17.
Bird trap. J. M. Maxwell. 1,677,723; July 17.
Blanket. H. C. Whitman. 1,677,260; July 17.
Blanket-napping machine. H. V. Prothers. 1,677,298; July 17.
Bleacher, Portable. H. D. Oberdorfer. 1,677,362; July 17.
Bleaching composition. E. M. Jones. 1,677,283; July 17.
Block machine, Concrete. B. F. Krehbiel. 1,677,480; July 17.
Blower. E. Hartmetz. 1,677,446; July 17.
Board: *See*—
Game board.
Boat, Fire-fighting. H. Y. Haden. 1,677,769; July 17.
Boat, Motor. H. Schmitt. 1,677,495; July 17.
Boats, Propelling. J. Y. Propst. 1,677,847; July 17.
Boiler: *See*—
Locomotive boiler.
Steam boiler.
Boiler for stills. E. V. Oliver. 1,677,795; July 17.
Boilers, Making. R. W. Birchfield. 1,677,033; July 17.
Boilers, Soot-blower apparatus for steam. C. L. Davidson. 1,677,751; July 17.
Bolt: *See*—
Panic bolt.
Bottle. P. A. Ginter. Des. 75,787–9; July 17.
Bottle cap, Milk-. G. L. Swift. 1,677,155; July 17.
Bottle or the like, R. B. Annis. Des. 75,763; July 17.
Bottle washer. W. Skwierawski. 1,677,571; July 17.
Bottles and jars, Friction cap for. E. Scofield. 1,677,253; July 17.
Bottles, Measuring cap for. J. A. Reiser. 1,677,567; July 17.
Box: *See*—
Stuffing box.
Suction box.
Box. F. J. Schleicher. Des. 75,808; July 17.
Box clamp, Battery-. C. L. Mabey. 1,677,789; July 17.
Box-strap tie. L. M. Harvey. 1,677,522; July 17.
Brace: *See*—
Folding brace.
Bracket construction. A. Person. 1,677,204; July 17.
Bracket for parallel rails, rods, and the like, Supporting. J. E. Gloekler. 1,677,764; July 17.
Brake: *See*—
Vehicle brake.
Vehicle power brake.
Brake lining and making same. I. J. Novak. 1,677,842; July 17.
Brake-operating means. V. Bendix. 1,677,381; July 17.
Brick mason's gauge. A. O. Graham. 1,677,821; July 17.
Brooch. H. D. Croft. 1,677,815; July 17.
Brush. H. E. Smith. Des. 75,811; July 17.
Brush-making machine. W. S. Elliot and W. Noble. 1,677,672; July 17.
Building construction. H. R. Bristol. 1,677,267; July 17.
Building construction. J. S. Ketterman. 1,677,140; July 17.
Bumper. H. M. Vickery. 1,677,506; July 17.
Burner: *See*—
Gas burner.
Oil burner.
Hydrocarbon burner.
Burner for stoves, Gas. W. Olsen and S. Rasmussen. 1,677,289; July 17.
Cabinet. E. L. Schwab. 1,677,410; July 17.
Cabinet, Bath. R. J. Kideney. 1,677,503; July 17.
Cabinet, Radio-receiving-set. A. Taylor. Des. 75,814; July 17.
Cable connecter for outlet boxes. H. V. Gould. 1,677,628; July 17.
Cable, Stranded. C. A. Parsons, J. Rosen, A. W. Grey, and R. W. Midgley. 1,677,458–9; July 17.
Cake, Preparing. S. F. McDonald. 1,677,245; July 17.
Can. J. E. R. Hayes. 1,677,234; July 17.
Can washer. O. H. Hansen. 1,677,443; July 17.
Candle fitting, Imitative. R. D. Smith. 1,677,412; July 17.
Car, Amusement. J. C. and R. J. Lusse. Des. 75,802; July 17.
Car, Tipping. O. Ballert. 1,677,263; July 17.
Cars, Adjustable sill step for railway dump. A. C. Schmohl. 1,677,373; July 17.
Carbonaceous and other materials, Treatment of. F. Frank. 1,677,757–8; July 17.
Carburizing furnace, Continuous. W. M. Hepburn. 1,677,136; July 17.

Carburetor for internal-combustion engines. W. S. Guthrie. 1,677,233; July 17.
Carburetors, Attachment for. J. F. Abel. 1,677,609; July 17.
Carrier: *See*—
Pencil carrier.
Tire carrier.
Carrier-receiving system. H. Affel. 1,677,224; July 17.
Case: *See*—
Utility case.
Case or container, Tie. C. Lobner. 1,677,146; July 17.
Cash register. S. Arton. 1,677,510; July 17.
Casing cutter. W. A. Vock and H. E. Lynn. 1,677,507; July 17.
Casing for electrical apparatus. A. C. Kleckner. 1,677,350; July 17.
Casting machine, Matrix-setting and type-line. K. Röger, H. Schoenleben, and F. Walther. 1,677,462; July 17.
Catch device, Safety. F. L. Mills. 1,677,647; July 17.
Cellulose-bearing material, Saccharification of. J. Perl. 1,677,406; July 17.
Cellulose composition. O. Drossbach and O. Jordan. 1,677,753; July 17.
Cements rich in alumina, Manufacturing. A. Hasselbach. 1,677,182; July 17.
Chamber pot. A. Wittig. 1,677,223; July 17.
Chart, Accounting-machine demonstration. J. A. B. Smith. 1,677,569; July 17.
Cigarette machinery. W. E. Molins. 1,677,680; July 17.
Cinematographic apparatus. L. T. Troland. 1,677,310; July 17.
Circuit interrupter, Automatic reclosing. C. A. Butcher. 1,677,863; July 17.
Circuits, Automatic reversing system for multiplex. W. A. Dudley. 1,677,859; July 17.
Circuits, Control of electric. H. Bany and D. C. Hoffmann. 1,677,702; July 17.
Clamp: *See*—
Battery-terminal clamp.
Form clamp.
Box clamp.
Pipe-patch clamp.
Electric-fixture clamp.
Clamp plate. H. S. Jandus. Des. 75,798–800; July 17.
Clamps, Making. W. R. Barney. 1,677,264; July 17.
Clarifier, Gasoline. A. C. Beck and A. S. Morningstar. 1,677,324; July 17.
Clasp. G. H. Roberts. 1,677,849; July 17.
Cleaner: *See*—
Shade cleaner.
Cleaning boiler tubes, Apparatus for. J. P. Martinussen. 1,677,836; July 17.
Cleaning device, Suction. W. A. Frantz. 1,677,625; July 17.
Clock, Alarm. W. F. McKinley. 1,677,790; July 17.
Clock, Calendar. R. N. Reid. 1,677,872; July 17.
Clock case. R. H. Whitehead. Des. 75,816; July 17.
Closure cap. W. L. Morrison. 1,677,403; July 17.
Cloth sponging and shrinking machine. M. E. Popkin. 1,677,367; July 17.
Clothes wringer, Power-operated. J. T. Hume. 1,677,863; July 17.
Clutch and brake mechanism for hoisting drums, Combined. 1,677,327; July 17.
Clutch mechanism and control therefor. M. I. Bradley. Assigned to S. O. Hale. 1,677,338; July 17.
Clutch, Positive. W. T. Carling. 1,677,705; July 17.
Coal bag. W. K. Cromwell, jr. 1,677,583; July 17.
Coal-loading and track-cleaning machine. H. H. Harrison, H. W. Allender, and R. L. Fout. 1,677,824; July 17.
Coating machine. C. L. Jones. 1,677,453; July 17.
Collar package. D. B. Becker. 1,677,511; July 17.
Collar, Soft. G. T. Sweetser. 1,677,504; July 17.
Combustion engine, Two-cycle supercharging. E. A. Sperry. 1,677,305; July 17.
Composite product and making same. A. B. Merrill. 1,677,360; July 17.
Compressor, Air. H. P. Wollman. 1,677,539; July 17.
Compressor, Fluid. E. A. Rix. 1,677,369; July 17.
Compressor, Rotary. P. Schauer. 1,677,216; July 17.
Concrete mixer. J. E. Bushnell. 1,677,813; July 17.
Condenser. R. S. Curley. 1,677,173; July 17.
Conditioning sheet articles and of and for applying minor members to sheet articles such as envelopes, for example, Method of and machine for. G. C. Snyder. 1,677,735; July 17.
Connecter. D. A. Bowen. 1,677,326; July 17.
Connecter. L. O. Smith. 1,677,734; July 17.
Container. F. S. Oppenheim. 1,677,565; July 17.
Container, Display. E. M. Pitts. 1,677,654; July 17.
Container for dental impression outfits. G. Robinet. 1,677,493; July 17.
Container, Fuse. R. S. Benett. Des. 75,769; July 17.
Container, Grease-gun grease. S. A. Steen. 1,677,603; July 17.
Control apparatus, Pneumatic. A. Wichert. 1,677,575; July 17.
Control device for use in coupling oil-well casing, Pressure-. E. G. Whaley. 1,677,538; July 17.
Convection and radiant heater, Combination. S. J. Delaney. 1,677,621; July 17.
Conveyer. J. F. Noecker. 1,677,487; July 17.
Conveying and drying apparatus. N. Marshall. 1,677,526; July 17.
Cooker, Automatic. H. S. Murray. 1,677,564; July 17.
Cooking apparatus. F. Blattner, jr., and E. Janke. 1,677,227; July 17.
Cooking utensil. J. McEwan. 1,677,593; July 17.
Cooler: *See*—
Ice-water cooler.
Cooling incandescent coke, Apparatus for. A. Moettell. 1,677,196; July 17.
Cord-fabric and tire making machine. H. I. Morris. 1,677,400; July 17.
Counterweight. J. G. Swain. 1,677,855; July 17.
Counting and dispensing machine, Pill. R. K. Clauss. 1,677,546; July 17.
Coupler, Wire. J. Zilliox. 1,677,376; July 17.
Coupling. E. J. Kroeger. 1,677,865; July 17.
Crank-shaft pins, Machine for milling. A. J. Gifford and B. S. T. Bishop. 1,677,761; July 17.
Crate, Steaming. P. Daugert, H. Frey, and J. J. Dunleavy. 1,677,385; July 17.
Crustacea, Treating. J. J. Barry. 1,677,579; July 17.
Crystallization of the body dissolved therein, Producing in a solution the. A. Delas. 1,677,551; July 17.
Cuff button or similar article. F. C. Rile. Des. 75,807; July 17.
Cuff link. J. Pejchar. Des. 75,806; July 17.
Cultivator. P. Cantin. 1,677,329; July 17.
Cultivator teeth. A. J. Peterson. 1,677,596; July 17.
Cultivator, weeder, and digger. A. R. Tenger. 1,677,803; July 17.
Cup. T. M. Cleland. Des. 75,773; July 17.
Curtains, Apparatus for adjusting automobile. R. E. Naumburg. 1,677,287; July 17.
Cut-out, Electric. G. F. Lincks. 1,677,720; July 17.
Cut-out, Electrical. J. F. Stokes. 1,677,692; July 17.
Cut-out, Thermal plug. M. J. Sandin. 1,677,298; July 17.
Cutter: *See*—
Casing cutter.
Vegetable cutter.
Cutter and cutting kerfs, Chain. E. C. Morgan. 1,677,399; July 17.
Cutter mechanism for plastic material. T. L. Green and C. H. Williams. 1,677,180; July 17.
Cutting attachment, Kafir-corn-. A. L. Johnson. 1,677,479; July 17.
Cylinder cock. L. Joyner. 1,677,781; July 17.
Cylinders, Adjusting locking. J. Croning. 1,677,432; July 17.
Decorated box. F. Eberbart. Des. 75,782; July 17.
Derrick, Oil-well. B. F. Sumpter, D. E. Winfree, and R. B. Robirds. 1,677,738; July 17.
Diazosalt, Solid. F. Keller and K. Schnitzspahn. 1,677,640; July 17.
Diazosalts of ortho-amino-phenolarylethers, Solid. F. Keller and K. Schnitzspahn. 1,677,558; July 17.
Differential mechanism. R. K. and E. K. Ortt. 1,677,682; July 17.
Discharging praline cores from the powdering box, Device for. C. Göpel. 1,677,179; July 17.
Dish, Serving. M. M. Pinney. 1,677,845; July 17.
Disk wheel. G. H. Forsyth. 1,677,755; July 17.
Disks, Forming tapered cross-section. E. D. Lowrie. 1,677,722; July 17.
Dispenser, Cup. H. J. Baur. 1,677,166; July 17.
Dispenser, Liquid-soap. J. M. Dabrowski. 1,677,750; July 17.
Dispenser, Soap. W. J. Cousins. 1,677,709; July 17.
Display device. H. S. Alexander. 1,677,318; July 17.
Display device. L. Moses. 1,677,840; July 17.
Displaying automobile numbers, Device for. R. C. Carty. 1,677,580; July 17.
Ditches, Back filler for. J. H. Hodgen. 1,677,342; July 17.
Door control, Automatic electric. H. C. Blodgett. 1,677,129; July 17.
Door, Stove and oven. W. Moll. 1,677,286; July 17.
Draft equalizer. J. Wurzer. 1,677,608; July 17.
Draining pad. J. R. Kinney. 1,677,641; July 17.
Drawer, Adjustable compartment metal. G. C. Brainard, J. A. Fitch, and G. T. Gourley. 1,677,544; July 17.
Drier: *See*—
Portable drier.
Drill: *See*—
Antrum drill.
Dyeing fibers. A. Winogradoff. 1,677,508; July 17.
Dyestuff and making same, Metal compounds of azo. F. Straub, H. Schneider, and J. Spieler. 1,677,534; July 17.
Egg-case filling and inverting apparatus. D. Parker. 1,677,290; July 17.
Electric controller. N. D. Levin. 1,677,243; July 17.
Electric-fixture clamp. G. Arras. 1,677,164; July 17.
Electric heater. A. C. Gilbert. 1,677,281; July 17.
Electric roaster. W. J. Noonan. 1,677,651; July 17.
Electric switch. H. D. Dunton. 1,677,713; July 17.
Electric switch. N. S. Wright. 1,677,509; July 17.
Electric switch, Automatic. B. E. Getchell. 1,677,335; July 17.
Electric switch, Key locking. M. J. Lewis. 1,677,719; July 17.
Electrical connecters, Liner for. M. M. Clayton. 1,677,332; July 17.
Electrical connection. J. R. Kearney. 1,677,783; July 17.
Electrical connection, Separable. W. C. Trogoning. 1,677,256; July 17.

Electrical distribution system. E. F. W. Alexanderson. 1,677,699–700; July 17.
Electrical quantities, Device for indicating the quotient of two. D. Albrecht. 1,677,378; July 17.
Electrically heated apparatus. A. E. Santschi. 1,677,214; July 17.
Electrode for evacuated electric devices. P. M. Hengstenberg. 1,677,341; July 17.
Electron-discharge device. W. A. MacDonald. 1,677,355; July 17.
Electroplating and the like, Apparatus for. De Verre. 1,677,817; July 17.
Engine: *See*—
Combustion engine. Sleeve-valve engine.
Internal-combustion engine.
Engine. D. Magusiak. 1,677,483; July 17.
Engines, Fuel intake for two-cycle. A. B. Streeter. 1,677,604; July 17.
Exercising plaything. I. A. Shanton. 1,677,532; July 17.
Extinguishing fire, Apparatus for. C. Szilvay. 1,677,875; July 17.
Extractor and dilator, Ureteral stone. W. A. Council. 1,677,671; July 17.
Eyeglass frame. F. McFadden. Des. 75,804; July 17.
Fabric: *See*—
Splicing fabric. Weftless fabric.
Gauze fabric.
Fabric puffer. H. L. Watkins and L. J. Eveland. 1,677,373; July 17.
Fan, Electric. H. Hubbell, jr. Des. 75,795; July 17.
Fastener. F. S. Carr. 1,677,858; July 17.
Fastener. W. H. Pierce. 1,677,869–70; July 17.
Fastener. G. E. Prentice. 1,677,408; July 17.
Fastener, Bag. W. C. Hlering. 1,677,137; July 17.
Fastener, Bag. B. Stember. 1,677,154; July 17.
Fastener, Sash. A. M. Hilty. 1,677,825; July 17.
Fastener, Sash. S. Segal. 1,677,309; July 17.
Fastening, Blade. L. Wessel. 1,677,807; July 17.
Fastening, Envelope. J. Lloyd. 1,677,867; July 17.
Fastening loop. H. A. Austin. 1,677,670; July 17.
Faucet. T. Larrigan. 1,677,242; July 17.
Feeding and delivering mechanism and process, Glass. E. T. Ferngren. 1,677,436; July 17.
Feeding and working articles, Method of and machine for. B. K. Ford. 1,677,133; July 17.
Fence construction. H. Miller. 1,677,195; July 17.
Field induction furnace, Rotary. E. F. Northrup. 1,677,528; July 17.
Films, Registering and cementing cinematographic. L. T. Troland and J. A. Ball. 1,677,309; July 17.
Filter. E. J. Sweetland. 1,677,503; July 17.
Finger ring. J. Schumer. Des. 75,809; July 17.
Fish bait. J. L. Donaly. 1,677,176; July 17.
Fish, Treating. D. D. Peebles. 1,677,364; July 17.
Flag holder and support therefor. L. A. Ames. 1,677,379; July 17.
Flashing, Sill. G. L. Cherry. 1,677,130; July 17.
Float. M. W. Iden. 1,677,450; July 17.
Flooring, Dividing strip for terrazzo. P. Galassi. 1,677,760; July 17.
Flow meter. E. M. Scoville. 1,677,411; July 17.
Flow regulator, Liquid-. O. B. Schellberg. 1,677,732; July 17.
Flower pot-base former. J. Kelso. 1,677,391; July 17.
Flue cap, Deflector-. J. A. McCarthy. Des. 75,803; July 17.
Flue heater. W. D. Johnston. 1,677,636; July 17.
Fluid motor. D. Bonetto. 1,677,745; July 17.
Fly net for horses. A. Montels. 1,677,859; July 17.
Folding brace. E. W. Cummings. 1,677,620; July 17.
Forging press, Electrically-driven. A. Friederici. 1,677,471; July 17.
Form clamp. J. F. Costello. 1,677,384; July 17.
Frame: *See*—
Side frame. Stocking frame.
Frame component. F. Amiot. 1,677,577; July 17.
Framework, Machine. A. B. Brown. 1,677,108; July 17.
Frequency-responsive instrument. F. B. Vogdes. 1,677,694; July 17.
Fruit press, Power-driven. J. P. Ferrari. 1,677,517; July 17.
Fruit-treating apparatus. A. W. Conklin. 1,677,229; July 17.
Fuel, Handling and feeding pulverized. G. P. Jackson and A. V. Adamson. 1,677,779; July 17.
Fuel, Motor. D. Costaguta. 1,677,273; July 17.
Furnace: *See*—
Carbonizing furnace. Field induction furnace.
Furnace for heating rivets by means of oxygen and acetylene gases. F. Bourlenaux. 1,677,467; July 17.
Furnaces, Operating open-hearth. A. L. Stevens. 1,677,664; July 17.
Fuselage for aeroplanes. W. F. Van Cleave. 1,677,535; July 17.
Game board. P. R. Compton. 1,677,707; July 17.
Game, Indoor golf. R. Johnson. 1,677,557; July 17.
Garment. F. Lerner. 1,677,145; July 17.
Garment. I. L. Lesavoy. 1,677,188; July 17.
Garment. R. du P. Ulman. 1,677,258; July 17.
Garter. G. Abraham. 1,677,423; July 17.
Gas burner. W. S. Bowen. 1,677,811; July 17.
Gas burner. H. E. Kerr. 1,677,787; July 17.
Gas diffuser. E. J. Sweetland. 1,677,502; July 17.
Gas outlet. E. W. Horton and H. G. Richardson. 1,677,634; July 17.
Gas, Producing combustible. W. W. Kemp. 1,677,785; July 17.
Gas-purification process. F. W. Sperr, jr. 1,677,304; July 17.
Gas scrubber for refrigerating apparatus. A. C. Thayer. 1,677,804; July 17.
Gas, Treating methane. G. Olivier. 1,677,363; July 17.
Gases and vapors, Absorption plant for. F. Rottmann and F. Brohmeyer. 1,677,409; July 17.
Gases through boilers, Control of. J. B. Crane. 1,677,749; July 17.
Gaseous mixtures, Apparatus for burning explosive. S. P. Vaughn. 1,677,156; July 17.
Gasometer. K. Jagschitz. 1,677,524; July 17.
Gate: *See*—
Vehicle gate.
Gate. B. W. Cook. 1,677,708; July 17.
Gate construction. C. A. Carlson. 1,677,330; July 17.
Gauge: *See*—
Brick-mason's gauge.
Gauge. G. H. Allen. 1,677,424; July 17.
Gauze fabric, Tubular. J. V. Moore. 1,677,398; July 17.
Gear for wagons, Convertible running. C. A. Hagadone. 1,677,476; July 17.
Gear, Landing. E. H. Van Valkenberg. 1,677,418; July 17.
Gear mechanism, Planetary-. H. L. Burkhardt. Re17,039; July 17.
Gear of locomotive cranes, Controlling the driving. H. G. Steinbrenner. 1,677,374; July 17.
Gear, Steering. M. Wagner. 1,677,419; July 17.
Generator: *See*—
Steam generator.
Glass substitutes, Apparatus for producing. A. Zimmerli. 1,677,576; July 17.
Glass-teeming apparatus. H. H. Deuley. 1,677,275; July 17.
Glazing bar. E. L. Nelson. 1,677,650; July 17.
Glove. J. Fitz Gibbon. Des. 75,785; July 17.
Goggles. W. N. Cook. 1,677,747; July 17.
Goggles and the like. G. A. Peterson. 1,677,566; July 17.
Golf apparatus, Indoor. J. C. Hall. 1,677,442; July 17.
Golf club. R. E. McClure. 1,677,395; July 17.
Golf, Device for improving stance in connection with the game of. E. H. Williams. 1,677,261; July 17.
Gradient meter. R. Aernout, Baron van Lynden. 1,677,220; July 17.
Granule and producing the same. W. H. Alton. 1,677,701; July 17.
Grate. L. J. Binder. 1,677,809; July 17.
Grate. W. A. Knowlton. 1,677,788; July 17.
Grater. A. D. Hopkins. 1,677,448; July 17.
Grinding apparatus. J. A. Milliken. 1,677,484; July 17.
Guard, Automobile fender. O. H. Goetz. 1,677,765; July 17.
Guiding and feeding device for crank embroidery machines and the like, Combined. A. Koch. 1,677,539; July 17.
Gun, Trap. A. Makl. 1,677,394; July 17.
Gyroscopic apparatus. A. Chessin. 1,677,331; July 17.
Hair-waving solution. F. J. McKenna. 1,677,246; July 17.
Halogen derivative of the benzanthrone series and making same. O. Braunsdorf, E. Holzapfel, and P. Nawiasky. 1,677,545; July 17.
Hand bag. G. M. Engel-Kron and S. Trey. 1,677,142; July 17.
Handle: *See*—
Basket handle. Switch handle.
Handle for vacuum cleaners, etc. W. L. Lindgren. 1,677,721; July 17.
Handling apparatus, Automobile. T. Vogt. 1,677,695; July 17.
Handling apparatus, Materials. H. H. C. Grondahl. 1,677,181; July 17.
Handling tacky strip material, Method and apparatus for. F. Goodall. 1,677,861; July 17.
Harvesting machinery, Vertical sickle divider for grain. W. A. Barber. 1,677,668; July 17.
Hat pad. L. Cohen. 1,677,547; July 17.
Hat-size reducer. L. Cohen. 1,677,548; July 17.
Hauling apparatus, Sugar-. J. Schiftner. 1,677,733; July 17.
Headlight. A. Maurer. 1,677,678; July 17.
Heat-exchange unit. A. B. Modine. 1,677,457; July 17.
Heat indicator, Dashboard-type. W. L. Rohrer. 1,677,208; July 17.
Heat-interchange device. C. R. Houseman. 1,677,777; July 17.
Heater: *See*—
Air heater, Flue heater.
Electric heater.
Heating sheet material in preparation for folding, Apparatus for. G. Ritter. 1,677,492; July 17.
Heating unit, Electric. J. C. Woodson. 1,677,313; July 17.
Heel block and forming the same. N. L. Gulliford. 1,677,822; July 17.
Heels, Attaching. J. H. Pope. 1,677,292; July 17.
Hinge and support, Door. A. S. Parkin. 1,677,843; July 17.

Hoisting device, Automobile. R. Rother. 1,677,297; July 17.
Holder, Electrode. J. Dion. 1,677,712; July 17.
Holder for mops. W. T. Whitaker. 1,677,741; July 17.
Holder, Novelty. I. M. Foster. 1,677,820; July 17.
Holder, Sliding-window. R. M. Ahrens. 1,677,317; July 17.
Holder, Twine. R. Salvaggio. 1,677,799; July 17.
Holder, Wall pot. M. C. Fox. Des. 75,786; July 17.
Hook: *See*—
Snap hook.
Horn, Sound-amplifying. J. C. Hendricks. 1,677,782; July 17.
Hosiery protector. G. W. Parry. 1,677,683; July 17.
Hydraulic motor. I. Cornelissen. 1,677,431; July 17.
Hydrocarbon burner. F. Higgins and A. E. Nordstrom. 1,677,447; July 17.
Hydrocarbons, Cracking. E. C. Herthel and T. D. Tifft. 1,677,772; July 17.
Hydrometer. F. E. Sode. 1,677,801; July 17.
Ice-rescue device. H. E. Hodgson. 1,677,236; July 17.
Ice-water cooler, Melted-. J. L. Jones. 1,677,455; July 17.
Indicator: *See*—
Heat indicator.
Inner tubes, Apparatus for manufacturing. M. H. Pade. 1,677,868; July 17.
Instrument-board and gas-tank construction, Combined. H. Ford. 1,677,279; July 17.
Insulator. R. P. Jackson. 1,677,346; July 17.
Insulators, Apparatus for undercutting pinholes in the center shells of. W. H. Smith. 1,677,498; July 17.
Internal-combustion engine. D. Cole. 1,677,429; July 17.
Internal-combustion engine. A. L. Powell. 1,677,407; July 17.
Iron: *See*—
Pressing iron.
Iron manufacture. M. G. Woodman. 1,677,420; July 17.
Ironing board and support. C. A. Adams. 1,677,162; July 17.
Ironing machine. R. V. Weller. 1,677,666; July 17.
Irrigating apparatus. W. H. Coles. 1,677,228; July 17.
Jack: *See*—
Lifting jack.
Jar-trimming machine. J. L. Kivlan. 1,677,239; July 17.
Jig, Insulator-assembling. J. C. Robertson. 1,677,294; July 17.
Joint: *See*—
Universal joint.
Key mechanism for wood-wind instruments, Octave. A. Loomis. 1,677,563; July 17.
Kiln for firing, Updraft process of and muffle. T. Downs. 1,677,818; July 17.
Knitting machines, Striping attachment for. L. S. Herbert. 1,677,477; July 17.
Label or tab for use with goods which have to be dyed. O. Gunnell. 1,677,475; July 17.
Lamp, Arc. W. C. Spieth. 1,677,602; July 17.
Lamp, Electric reflecting. H. A. Douglas. 1,677,752; July 17.
Lamp, Extension. E. G. Appleton, A. C. Fischer, and R. Mooney. 1,677,163; July 17.
Lamp motor feed, Arc-. A. C. Roebuck. 1,677,657; July 17.
Lamp, Projector. T. Hall. 1,677,521; July 17.
Lamp standard. S. G. Edmondson. Des. 75,783; July 17.
Lanterns, Mounting for. W. E. Price. 1,677,489; July 17.
Latch for vehicle doors. R. V. Kalmer. Re17,035; July 17.
Latch, Locker. A. F. Foehrenbach. 1,677,278; July 17.
Lathe, Crank-pin. L. J. Kirchenbauer. Re17,040; July 17.
Laundry-classifying table. A. T. Moore. 1,677,648; July 17.
Lawn sprinkler. L. R. Nelson. 1,677,486; July 17.
Leather product. M. H. Cook. 1,677,125; July 17.
Leather, Waterproofing. H. V. Dunham. 1,677,435; July 17.
Lenses, Making and marking toric and like. L. W. Bugbee. 1,677,382; July 17.
Letter device, Changeable. J. K. K. Andersen. 1,677,319; July 17.
License plate and displaying the same. L. L. Barr. 1,677,613; July 17.
Lid, Journal-box. D. S. Barrows. 1,677,321; July 17.
Lifting jack. W. H. Walker, J. J. Mizer, and I. E. Dearsley. 1,677,466; July 17.
Lighting fixture. J. Zweig. Des. 75,817; July 17.
Lighting system, Exit-. R. T. Williams. 1,677,696; July 17.
Lining, Footwear. C. E. Bradley and C. D. Mason. 1,677,428; July 17.
Liquid draw-off. G. B. Stone and F. D. Michaels. 1,677,501; July 17.
Lister, Tractor. W. S. Graham. 1,677,474; July 17.
Lock: *See*—
Nut lock. Safety lock.
Lock for pneumatic tools, Handle. J. T. Nelson. 1,677,199; July 17.
Locking device. C. M. Graves. 1,677,768; July 17.
Locomotion on foot, Facilitating. J. D. M. Robinson. 1,677,728; July 17.
Locomotive boiler. W. L. Bean. 1,677,427; July 17.
Locomotive, Oil-motor-driven. J. Buchli. 1,677,704; July 17.
Logs and grates, Attachment for. F. G. Gross. 1,677,629; July 17.
Loom. E. Bauer and P. Miozzi. 1,677,542; July 17.
Loom. J. Lucas. 1,677,192; July 17.
Looms, Actuating mechanism in oriental-rug. M. A. Bauer. 1,677,426; July 17.
Louver ventilator. R. C. and G. L. Yager. 1,677,421; July 17.
Low-water alarm. G. W. Keller. 1,677,830; July 17.
Lubricant and process, Textile. J. J. Schaefer. 1,677,852; July 17.
Lubricating apparatus for stiff lubricants, Central. A. Schlosshauer. 1,677,661; July 17.
Lubricating device for hinges of doors and windows, Automatic. I. Gonyk. 1,677,441; July 17.
Lubricating mechanism for sprocket chains. E. C. Morgan. 1,677,649; July 17.
Lubricator: *See*—
Superpressure lubricator.
Machine for hobbing or cutting gears. C. H. Schurr. 1,677,853; July 17.
Machine for making covered boxes. A. F. Jones. 1,677,390; July 17.
Machine for making nut blanks and similar articles. H. D. Simkins and J. Burkhardt. 1,677,151; July 17.
Machine for making straps. E. W. Dunbar and E. J. Dempsey. 1,677,231; July 17.
Machine for operating on shoes. A. Bates. 1,677,322; July 17.
Magazine for air guns. R. T. Bond. 1,677,810; July 17.
Magnesium and magnesium alloys to inhibit corrosion, Treatment of. A. C. Zimmerman. 1,677,667; July 17.
Magnets, Producing permanent. L. E. Howard and A. D. Potts. 1,677,674; July 17.
Manicuring instrument. I. M. Eldridge. Des. 75,784; July 17.
Material-working machine. B. L. Whited. 1,677,159; July 17.
Mattress or cushion and boxing therefor and making same. J. F. Gall. 1,677,232; July 17.
Measuring and dispensing apparatus, Liquid. C. L. Merriman. 1,677,285; July 17.
Measuring a substance carried in suspension by a second substance. A. R. Smith. 1,677,691; July 17.
Measuring contact rebounding, System for. A. Weaver. 1,677,157; July 17.
Measuring, Gas. E. I. McKesson. 1,677,147; July 17.
Measuring instrument. W. Jandus. 1,677,864; July 17.
Mercury compound, Polyhydroxy-. H. Gunzler and O. Neubert. 1,677,823; July 17.
Metal, Bonding. F. C. Mathison. 1,677,354; July 17.
Metal-finishing machine. O. F. Tapley. 1,677,375; July 17.
Meter: *See*—
Gradient meter. Flow meter.
Meter. G. B. Linderman, jr. 1,677,834–5; July 17.
Meter for combining the measurement of demand and energy. L. A. Paine. 1,677,203; July 17.
Meter for fluids. E. S. Lindley. 1,677,189; July 17.
Methane, Chlorination of. E. Krause. 1,677,831; July 17.
Mirror or similar toilet article. W. S. Bechtold. Des. 75,765–8; July 17.
Mixer: *See*—
Concrete mixer.
Mixing amalgam for tooth fillings and stoppings, Device for. V. Wilming. 1,677,697; July 17.
Mixing plant, Asphalt-. F. H. Cummer. 1,677,274; July 17.
Modulating arrangement. O. H. Loynes. 1,677,190–1; July 17.
Moisture control, Automatic. W. C. Wright. 1,677,856; July 17.
Mold: *See*—
Battery mold.
Mop, Floor. S. N. Cragin. 1,677,748; July 17.
Motor: *See*—
Fluid motor. Rotary motor.
Hydraulic motor.
Motor and dynamo machine, Electric. C. L. Daun. 1,677,433; July 17.
Motor-assembling fixture. R. O. Gilburg. 1,677,762; July 17.
Motor-indicating system. E. A. Rockwell. 1,677,494; July 17.
Mounting for windshield cleaners. A. E. Doman. 1,677,175; July 17.
Mower attachment, Lawn-. F. M. Ritter. 1,677,250; July 17.
Mower, Lawn. W. H. Adkins. 1,677,377; July 17.
Muffler. C. E. Stade. 1,677,570; July 17.
Music roll for player pianos. O. Foss. 1,677,756; July 17.
Nail stripper. F. M. Murakoshi. 1,677,527; July 17.
Nozzle, Vaporizing. E. E. Goller. 1,677,766; July 17.
Nut lock. I. G. Brenneman. 1,677,266; July 17.
Nut, Nonremovable. T. N. Burghart. 1,677,269; July 17.
Oil burner. E. W. Rother. 1,677,871; July 17.
Oil burner. O. J. See. 1,677,800; July 17.
Oil composition and preparing same, Cylinder-. R. T. Howes. 1,677,389; July 17.

Oil in oil wells, Apparatus for lifting. T. Kallmeyer. 1,677,349; July 17.
Oil, Lubricating. J. H. Mackie. 1,677,244; July 17.
Oil or liquid-fuel charges into internal-combustion engines, Introducing. S. D. Olsen. 1,677,202; July 17.
Oils, Cracking hydrocarbon. E. C. Herthel and T. D. Tifft. 1,677,773–6; July 17.
Oils, Device for testing lubricating. A. A. Schaefer. 1,677,690; July 17.
Oiling device, Hog-. A. J. Koerner. 1,677,560; July 17.
Optical projection apparatus, Automatic focusing. E. K. Hunter. 1,677,778; July 17.
Ore concentration. R. R. Tunison. 1,677,416; July 17.
Overalls. M. E. St. Amour. 1,677,663; July 17.
Package-banding machine. A. M. English. 1,677,587; July 17.
Package for pile fabrics and the like. A. M. Durand. 1,677,515; July 17.
Packing ring. J. B. Wenel. 1,677,158; July 17.
Pad: *See*—
Draining pad. Hat pad.
Pail. H. E. Whitney. 1,677,222; July 17.
Panic bolt. W. J. Carroll. 1,677,271; July 17.
Paper, Method and machine for the producing of tightly-coiled. F. Schade. 1,677,599; July 17.
Paraformaldehyde, Manufacture of. K. Sator and W. Pfannmüller. 1,677,730; July 17.
Pattern mechanism or shed-forming machine, Apparatus for the driving of a. H. Stanbli. 1,677,235; July 17.
Pavement. C. H. Jack. 1,677,829; July 17.
Pavements, Construction of street. A. E. Schutte. 1,677,600; July 17.
Pencil carrier. G. W. Goodridge. 1,677,767; July 17.
Pencil container and lead magazine, Combination. A. F. Galdos. 1,677,387; July 17.
Pencil, Mechanical. J. Straka. 1,677,415; July 17.
Penholder. P. Z. Bloser. Des. 75,772; July 17.
Petroleums, Treating. W. W. Gary. 1,677,440; July 17.
Phonograph circuit, Electric. J. Weinberger. 1,677,806; July 17.
Photo-electric cell. V. K. Zworykin. 1,677,316; July 17.
Photography. E. A. Weaver. 1,677,665; July 17.
Pipe-flange wrench. J. H. Jones. 1,677,637; July 17.
Pipe flanges, Trimming soft-metal. P. Mueller and A. C. Schuermann. 1,677,792; July 17.
Pipe patch clamp. O. P. Eller. 1,677,623; July 17.
Pipes and products resulting therefrom, Producing earthenware. F., J. B., T., S., and F. Alassio. 1,677,808; July 17.
Piston and packing. J. A. Olson. Re17,042; July 17.
Piston-removing device. P. H. Kenney. 1,677,786; July 17.
Planographic presses, Dampening system for. R. F. Reed and W. Scholl. 1,677,655; July 17.
Planter, Cotton. S. K. Dennis. 1,677,469; July 17.
Planter, Tractor. J. L. Hippie. 1,677,478; July 17.
Plasterer's float. J. W. Pickering. 1,677,366; July 17.
Pliers, Adjustable. E. Peck. 1,677,365; July 17.
Pointing and threading machine, Automatic. J. A. Kinney. 1,677,238; July 17.
Polishing device. S. G. Wilson. 1,677,742; July 17.
Portable drier. H. E. Myers. 1,677,197; July 17.
Pot: *See*—
Chamber pot.
Poultice-making machine. R. H. Plass. 1,677,685; July 17.
Power press, High-pressure. J. G. Collins. 1,677,132; July 17.
Press: *See*—
Assembly press. Power press.
Forging press. Printing press.
Fruit press. Tobacco press.
Pressing iron, Steam. J. Faust. 1,677,819; July 17.
Printing apparatus for use with cigarette machinery. W. E. Molins. 1,677,679; July 17.
Printing device. H. E. Hubbard. 1,677,449; July 17.
Printing press, Multicolor rotary. F. Fuchs. 1,677,472; July 17.
Prism-lens unit. C. F. Jenkins. 1,677,590; July 17.
Projecting apparatus. E. C. Ballman and E. P. Evers. Re17,037–8; July 17.
Projecting machine. E. C. Jenner. 1,677,237; July 17.
Protective system, Electrical. C. L. Fortescue and R. D. Evans. 1,677,333; July 17.
Pulley. T. B. Funk. 1,677,134; July 17.
Pump, Air. J. Jaworowski. 1,677,780; July 17.
Pump, Air-lift. J. O. Boving. 1,667,265; July 17.
Pump, Well. J. F. Struble. 1,677,802; July 17.
Pump, Valve equipment for oil-well. C. B. Lewis and E. D. Robertson. 1,677,562; July 17.
Radiator cap. H. J. Mescher. 1,677,594; July 17.
Radio apparatus. J. H. Hallberg. 1,677,589; July 17.
Radio tuning device. O. C. Staats. 1,677,737; July 17.
Railway-switch stand. J. T. McGarry. 1,677,356; July 17.
Rakes Cleaner attachment for. F. A. Howe and N. C. Bang. 1,677,635; July 17.
Reamer, Valve-seat. M. W. Thacte. 1,677,465; July 17.
Receiver. W. Knisling. 1,677,185; July 17.
Reducing materials by heat, Method of and apparatus for. W. W. Kemp. 1,677,784; July 17.
Reels, Antibacklash attachment for. L. A. Haas. 1,677,631; July 17.
Refining of petroleum fractions. F. C. Axtell. 1,677,425; July 17.
Refrigerator. J. L. Jones. 1,677,454; July 17.
Register: *See*—
Cash register.
Regulator: *See*—
Flow regulator. Thermostatic regulator.
Temperature regulator.
Relay. H. P. Sleeper. 1,677,302; July 17.
Relay, Induction. S. L. Goldsborough. 1,677,336; July 17.
Reloading mechanism, Web-roll. F. Lamatsch. 1,677,561; July 17.
Resinous composition and making same. V. H. Turkington. 1,677,417; July 17.
Resistance unit. F. S. Kochendorfer and T. A. Gill. 1,677,240; July 17.
Rheostat. W. E. Newman. 1,677,288; July 17.
Rim-frame construction. D. S. Stiles. 1,677,500; July 17.
Ring: *See*—
Packing ring.
Ring or similar article. L. L. Jaffe. Des. 75,796–7; July 17.
Ring wheel, Segmental. T. Larsson. 1,677,866; July 17.
Road machine, Concrete-. E. G. Carr. 1,677,877; July 17.
Roaster: *See*—
Electric roaster.
Roof. H. Abraham. Des. 75,761–2; July 17.
Roof, Car. F. A. Jacobs. 1,677,183; July 17.
Rotary motor. H. D. Weed. 1,677,805; July 17.
Rubber, Sheet. B. A. Ruhling. 1,677,372; July 17.
Rubber vulcanization. A. C. Burrage, jr. 1,677,169; July 17.
Safety control for oil burners, Automatic. H. S. Rogers and R. Raddatz. 1,677,295; July 17.
Safety device for motor vehicles. C. L. Beauregard. 1,677,703; July 17.
Safety lock. H. N. Carragher. 1,677,617; July 17.
Sagger. J. A. Jeffery. 1,677,452; July 17.
Sagger-making machine. D. D. Irwin. 1,677,677; July 17.
Salt in asphaltic compounds, Mixing metallic. F. L. Carson. 1,677,272; July 17.
Sand into molds, Method of and apparatus for delivering. O. Nagel and W. Kaempfer. 1,677,726; July 17.
Sand-mixing machine. R. H. Cleminshaw. 1,677,619; July 17.
Sanitary fixture. R. E. Crane. 1,677,550; July 17.
Sash-operating mechanism. G. I. Barclay. 1,677,380; July 17.
Sashes, Counterbalancing device for window. N. A. Leren. 1,677,643; July 17.
Scale, Coin-controlled ticket printing and delivering. G. F. Hochriem. 1,677,827; July 17.
Scales, Attachment for weight recording. G. F. Hochriem. 1,677,826; July 17.
Scouring implement. J. D'Albora. 1,677,174; July 17.
Scraper. B. E. Rose and G. Woolwine. Re17,044; July 17.
Screen: *See*—
Window screen.
Screw driver. L. V. Walkley. 1,677,572; July 17.
Screw for center bearings for looms. W. E. Crain. 1,677,549; July 17.
Screw, Temper. L. McKillop. 1,677,358; July 17.
Screws, Lock and seal for F. H. Wood. 1,677,667; July 17.
Seal. Oil-tube water. J. A. Wintroath. 1,677,262; July 17.
Sealing mechanism for containers. J. Van Buren. 1,677,259; July 17.
Seam tube, Solidified. W. K. Herbst and R. H. Stone. 1,677,523; July 17.
Sear mechanism. W. T. Gorton. 1,677,588; July 17.
Seat: *See*—
Adjustable seat.
Securing mechanism, Loose-leaf- R. F. Power. 1,677,461; July 17.
Selvage-opening device. H. C. Smith. 1,677,303; July 17.
Separator. R. C. Benner. 1,677,512; July 17.
Septic tank. J. Frappy. 1,677,626; July 17.
Server of household articles. J. O. Naslin. 1,677,404; July 17.
Sewer flusher, Automatic. C. R. Lion. 1,677,352; July 17.
Sewing machines, Stop mechanism for. R. A. Gramse. 1,677,673; July 17.
Shade cleaner, Window. H. Schurr. 1,677,252; July 17.
Shade, Lamp. S. Sato. 1,677,660; July 17.
Shaping and finishing machine, Automatically-operating paper-box. I. A. Deline. 1,677,386; July 17.
Shaping machine, Collar. J. Harris. 1,677,771; July 17.
Shaping teacups or the like with integral handles. J. Bailey. 1,677,611; July 17.
Sharpener, Lawn-mower. J. H. Groetsch. 1,677,556; July 17.
Sheet material and making and mounting the same. T. J. Mell. 1,677,284; July 17.
Sheet metal, flat bars, and hoop iron, Apparatus for producing meshed. H. Frohnhauser. 1,677,438; July 17.

Shock absorber for motor vehicles. G. R. Pennington. 1,677,405; July 17.
Shoe. M. B. Banks. 1,677,226; July 17.
Shoe. C. C. Blake. 1,677,612; July 17.
Shoe and making same, Stitch-down. R. E. Howlett. 1,677,343; July 17.
Shoe, Football. E. E. Roewade. 1,677,370; July 17.
Short-circuiting switch. R. G. McCurdy. 1,677,193; July 17.
Side frame. B. W. Kadel. 1,677,347; July 17.
Sign, Display. J. B. Auerbach. Des. 75,764; July 17.
Signal: *See*—
Automobile signal. Vehicle traffic signal.
Signal apparatus, Railway. W. Daya. 1,677,816; July 17.
Signal-control switch. P. Koroknay. 1,677,141; July 17.
Signaling device, Automobile. I. G. Krieger. 1,677,351; July 17.
Signaling system, High-frequency. W. J. Brown. 1,677,268; July 17.
Size or dressing, Making n. A. Boidin and J. Effront. 1,677,614; July 17.
Sizing apparatus for coke or the like. A. G. Molin. 1,677,838; July 17.
Sizing device for grinding machines, Automatic. A. P. Steiner. 1,677,307; July 17.
Sleeve-valve engine, Segmental. P. H. Conklin. 1,677,582; July 17.
Slicing machine. J. Folk. 1,677,437; July 17.
Snap hook. R. B. Lloyd. 1,677,592; July 17.
Snap hook, Safety. O. R. and R. N. Close. 1,677,814; July 17.
Soldering device. R. Reinbold. 1,677,248; July 17.
Soot blower for steam boilers. C. A. Claflin. 1,677,383; July 17.
Sorting machine. G. Neuhaus. 1,677,247; July 17.
Sorting machine, Ceramic. R. P. Herrold. 1,677,862; July 17.
Sorting table. F. B. Roberts and W. G. Huntington. 1,677,656; July 17.
Sound reproducer. G. Strobino. 1,677,605; July 17.
Sound-wave transmitting and amplifying device. W. Hardeo. 1,677,632; July 17.
Spark plug. I. W. Farquharson. 1,677,516; July 17.
Speed control, Critical-. C. R. Sessions. 1,677,496; July 17.
Splicing fabric, Apparatus for. W. W. Benner and E. A. Hoener. 1,677,857; July 17.
Sprinkler: *See*—
Lawn sprinkler.
Sprinkler. L. R. Nelson. 1,677,485; July 17.
Stacker. C. Pearson. 1,677,488; July 17.
Stand: *See*—
Display stand. Switch stand.
Railway-switch stand.
Starch, Making cold swelling. E. Wulkan. 1,677,314; July 17.
Starch material and making it, Prepared. A. Boidin and J. Effront. 1,677,615; July 17.
Starch, Treating. J. Kantorowicz. 1,677,348; July 17.
Steam boiler. C. H. Hass and L. J. Mitchell. 1,677,630; July 17.
Steam boiler, Electric. S. Schneider. 1,677,299; July 17.
Steam generator. M. C. Gillett. 1,677,763; July 17.
Steam plant. J. Ruths. 1,677,798; July 17.
Steel, Increasing the permeability of silicon. J. C. Karcher. 1,677,139; July 17.
Steel retainer. W. Preilwitz. 1,677,530; July 17.
Steering wheel. A. E. Bronson. 1,677,616; July 17.
Stocking. E. O. Nebel. Des. 75,805; July 17.
Stocking frame. H. Sussmann. 1,677,219; July 17.
Stool and stepladder, Combination. J. H. Asselin. 1,677,610; July 17.
Stool, Pocket folding. T. N. Hansen. 1,677,339; July 17.
Stove construction. C. M. Dibble. 1,677,585; July 17.
Stove, Oil. M. Resek. 1,677,597; July 17.
Strand-working mechanism. C. O. Haase. 1,677,135; July 17.
Strand-working mechanism. F. S. Kochendorfer. 1,677,186; July 17.
Stretcher, Shoe. R. Lavoano, J. Alesse and S. Campagna. 1,677,591; July 17.
Stuffing box. C. L. Pruiett. 1,677,848; July 17.
Suction box, Oscillating. A. Aldrich. 1,677,128; July 17.
Suds-producing means. T. A. Luthander. 1,677,645; July 17.
Superpressure lubricator. F. W. Parker. 1,677,595; July 17.
Support for spare wheels, Fixed. L. Rouanet. 1,677,212; July 17.
Support, Portable. L. M. Fulton. 1,677,439; July 17.
Support, Yieldable. R. D. Parks. 1,677,796; July 17.
Surfaces, Making antique. R. J. Greene. 1,677,716; July 17.
Surfacing machine, Electrically-actuated. G. Staehle. 1,677,533; July 17.
Surgical instrument. D. K. Rose. 1,677,209; July 17.
Swimming device. C. Spurges. 1,677,254; July 17.
Swings, Stand or support for. W. H. Patton. 1,677,844; July 17.
Switch: *See*—
Electric switch. Thermostatic overload switch.
Short-circuiting switch.
Signal-control switch.
Switch handle, Rotary. A. W. Clauder. 1,677,706; July 17.
Switch mechanism. H. G. Baxter and H. K. Krantz. 1,677,323; July 17.
Switch stand, Automatic. W. M. Gray. 1,677,388; July 17.
Switching system, Automatic. W. N. Gittings. 1,677,715; July 17.
Table: *See*—
Laundry-classifying table. Sorting table.
Table cover or similar article. H. W. Dieck. Des. 75,775–81; July 17.
Tamping machine. J. D. Abram. 1,677,422; July 17.
Tank: *See*—
Septic tank.
Tapping machines, Electric reversing device for. B. S. T. Bishop and H. A. Jacobson. 1,677,744; July 17.
Tea bag. H. Mock. 1,677,397; July 17.
Teeth, Artificial. L. H. Sprinkle. 1,677,662; July 17.
Telegraphy and telephony, System of reception for modulated-wave. E. Y. Robinson. 1,677,797; July 17.
Telegraphy and telephony, Wireless. B. Rosenbaum. 1,677,296; July 17.
Telephone system. H. von Beckerath. 1,677,325; July 17.
Telephone system, Automatic. R. F. Stehlik. 1,677,415–14; July 17.
Telephone system, Semiautomatic. E. Jacobsen. 1,677,451; July 17.
Temperature regulator. A. Däniker. 1,677,710; July 17.
Temperature time-control device. A. J. Mottlau. 1,677,361; July 17.
Tension device. J. C. Hodge. 1,677,138; July 17.
Textile fabric. L. Biva. Des. 75,771; July 17.
Textile fibers from animal hair and bristles, Manufacture of. W. H. Schweitzer. 1,677,149; July 17.
Thermostatic overload switch. B. E. Getchell. 1,677,334; July 17.
Thermostatic regulator. C. H. Hapgood. 1,677,340; July 17.
Thrashers, Bagging platform and carrier attachment for harvester. C. R. Raney and A. E. W. Johnson. 1,677,490; July 17.
Tie: *See*—
Box strap tie.
Tie splice, Cotton-. P. L. Howlett. 1,677,828; July 17.
Tile or article of similar article. E. H. Gibian. Des. 75,790–1; July 17.
Tile or article of similar nature. L. Gunther and E. H. Gibian. Des. 75,793; July 17.
Tile or article of similar nature. F. Sohn and L. G. Marmion. Des. 75,812–13; July 17.
Tire. E. W. Coleman. Des. 75,774; July 17.
Tire. T. G. Graham and H. F. Schippel. Des. 75,792; July 17.
Tire carrier. A. B. Werdehoff. 1,677,574; July 17.
Tire, Cushion. A. L. Alaj. 1,677,124; July 17.
Tire deflator. E. P. Seghers. 1,677,301; July 17.
Tire-finishing machine. E. D. Putt. 1,677,871; July 17.
Tires, Method and machine for making cord. K. O. B. Textorius. Re17,036; July 17.
Tires or tire carcasses, Apparatus for making. H. I. Morris. 1,677,401–2; July 17.
Toaster, Electric. H. C. Drake. 1,677,177; July 17.
Tobacco press. T. Miller. 1,677,724; July 17.
Toilet-seat protector. N. C. Ross. 1,677,211; July 17.
Toll-service trunking system. J. Wicks. 1,677,876; July 17.
Tongs, Electric welding. C. L. Stancliff. 1,677,306; July 17.
Tool. E. J. Dreuil. 1,677,622; July 17.
Tool, Chain. J. W. Saffold. 1,677,251; July 17.
Tool, Chain. J. W. Saffold. 1,677,658–9; July 17.
Tool for boring and turning irregular surfaces, Machine. L. M. Cole, E. H. Halter, and R. H. Lewis. 1,677,131; July 17.
Tool for cutting box strapping and the like. S. W. Parsons. 1,677,684; July 17.
Tool holder for cross slides of lathes, Multiple. M. E. Lange and A. L. Evans. 1,677,143; July 17.
Tool retainer for pneumatic hammers. J. M. Butler and H. A. Torson. 1,677,270; July 17.
Toothbrush. A. Mendoza. 1,677,194; July 17.
Top and spinner therefor. F. X. Renetzky. 1,677,368; July 17.
Topper, Beet. O. H. Hansen. 1,677,444; July 17.
Towel bar. A. C. Gilbert. 1,677,280; July 17.
Toy aviation device. S. I. Berger. Des. 75,770; July 17.
Toy, Figure. C. A. Peck. 1,677,652; July 17.
Toy locomotives, Bell-ringing means for. H. S. Becker. 1,677,669; July 17.
Toy, Spring teetering. I. A. Shanton. 1,677,531; July 17.
Toy woodpecker. J. W. Suedeker. 1,677,463; July 17.
Traction wheel. L. E. Slauson. 1,677,568; July 17.
Tractor. T. C. Leake. 1,677,878; July 17.
Tractor attachment. A. C. Lindgren and A. D. Gallagher. 1,677,482; July 17.
Tractor cultivator attachment. C. Y. Thomson, sr. 1,677,505; July 17.
Tractor hitch. T. K. Martin. 1,677,639; July 17.
Tractors for haulage purposes on rail or tram lines, Adapting motor. R. Joughin. 1,677,184; July 17.
Traffic-controlling apparatus, Railway-. R. M. Gilson. 1,677,518; June 17.
Trailer, Industrial. C. G. Clement. 1,677,618; July 17.
Transfer mechanism for sugar canes. H. O. Scranton. 1,677,601; July 17.

Transformer. V. M. Montsinger. 1,677,681; July 17.
Transformer, Electric. W. S. Werner. 1,677,537; July 17.
Transmission lines, Pole top fixture for. W. G. Milne. 1,677,456; July 17.
Trap: *See*—
Animal trap. Bird trap.
Tray, Food. L. A. Deicken. 1,677,276; July 17.
Treating soils to promote plant growth. C. H. Spencer. 1,677,153; July 17.
Treatment of work under pressure, Apparatus for continuous. C. H. Oakley. 1,677,201; July 17.
Triangle. C. G. Mickel. 1,677,396; July 17.
Truck, Industrial. A. R. Goldrick. Re17,043; July 17.
Tube: *See*—
Seam tube. Vacuum tube.
Tubular structure. H. F. Frease. 1,677,714; July 17.
Tunneling machine, Multiple-air-drill. W. R. Collins. 1,677,430; July 17.
Turbine, Internal-combustion. E. W. Nalleigh. 1,677,198; July 17.
Twine ball. G. L. Rice. 1,677,491; July 17.
Typewriter. C. D. Youngberg. 1,677,315; July 17.
Typewriter and the like. W. E. Barnard. 1,677,165; July 17.
Typewriting machine. G. W. Campbell. 1,677,170; July 17.
Typewriting machine. G. F. Rose. 1,677,210; July 17.
Umbrella, Emergency. H. O. Gottesman. 1,677,520; July 17.
Underreamer. C. H. Brown. 1,677,812; July 17.
Universal joint. C. W. Weiss. 1,677,311; July 17.
Unwinding device, Material-. S. E. Borgeson. 1,677,167; July 17.
Unwinding device, Material-. J. N. Selvig. 1,677,217; July 17.
Urn, Coffee. L. Wertheimer. 1,677,221; July 17.
Utility case. F. Phillippi. 1,677,653; July 17.
Vacuum-cleaner handle. B. J. Tamarin. Des. 75,815; July 17.
Vacuum tube. E. Y. Robinson. 1,677,850; July 17.
Vacuum tube. E. Y. Robinson. 1,677,851; July 17.
Vacuum-tube control device. J. H. Pressley. 1,677,727; July 17.
Valve. H. W. Dennis. 1,677,126; July 17.
Valve. A. McGregor. 1,677,357; July 17.
Valve. M. Resek. 1,677,598; July 17.
Valve and pipe coupling, Combined. A. J. Weatherhead, jr. 1,677,740; July 17.
Valve, Built-in removable. P. and R. H. Mueller and W. J. Mix. 1,677,794; July 17.
Valve-controlling device for engines and motors. S. Diamant. 1,677,552; July 17.
Valve devices, Attachment for lavatory-outlet-. P. and L. W. Mueller and W. J. Mix. 1,677,793; July 17.
Valve, Float. D. Reed. 1,677,687; July 17.
Valve for gas lines, Automatic cut-off. C. L. Sams. 1,677,729; July 17.
Valve for gas-washing apparatus, By-pass. R. Rosner. 1,677,148; July 17.
Valve, Four-way diverter. L. Bloch. Re17,034; July 17.
Valve, Lubricated plug. H. P. MacGregor. 1,677,525; July 17.
Valve mechanism. A. W. Pope, jr. 1,677,460; July 17.
Valve, Plate. L. R. Huff. 1,677,717; July 17.
Valve, Rotary. W. J. Smith. 1,677,499; July 17.
Valves, Making sleeve. H. R. Ricardo. 1,677,249; July 17.
Vapor-converter substation, Automatically-controlled. W. V. Lovell. Re17,041; July 17.
Vapor electric device. L. T. Robinson and C. A. Sabbah. 1,677,689; July 17.
Vegetable cutter. J. A. Bogdonawich. 1,677,543; July 17.
Vehicle brake. B. A. Larevn. 1,677,481; July 17.
Vehicle, Child's. H. H. Edele. 1,677,586; July 17.
Vehicle gate, Automatic. A. L. Hughes. 1,677,345; July 17.
Vehicle, Land and water. G. E. Powell. 1,677,846; July 17.
Vehicle power brake, Motor-. A. W. Harrison. 1,677,633; July 17.
Vehicle traffic signal, Motor-. C. B. Ferro. 1,677,624; July 17.
Vehicles, Spring suspension for. H. W. Hyde. 1,677,675–6; July 17.
Vending machine. W. Goodchild and N. Sclar. 1,677,519; July 17.
Vending machine, Perfume-. S. M. Coffman. 1,677,468; July 17.
Ventilator: *See*—
Louver ventilator.
Ventilator. F. Dely. 1,677,711; July 17.
Vibrating mechanism. A. A. Frevert. 1,677,759; July 17.
Vigil light cup. E. Sheeley. Des. 75,810; July 17.
Visor, Sun. S. E. Leibson. 1,677,187; July 17.
Vulcanization of rubber and product thereof. R. V. Heuser. 1,677,235; July 17.
Vulcanizer, Continuous. C. E. Rett. 1,677,207; July 17.
Vulcanizing apparatus. C. H. Oakley. 1,677,200; July 17.
Wagon, Dump. F. W. Garvin. 1,677,555; July 17.
Wall bracket. C. Lehrman. Des. 75,801; July 17.
Wall-paper panel or the like. H. L. Hoffman. Des. 75,794; July 17.
Wallet, Pocket. H. H. Harnsberger. 1,677,770; July 17.
Washer: *See*—
Bottle washer. Can washer.
Washing machine. G. P. Anstiss. 1,677,320; July 17.
Washing-machine drive. H. D. Payne. 1,677,291; July 17.
Waste, Pop-up. P. Mueller and A. C. Schuermann. 1,677,791; July 17.
Watchcase. A. Laska. 1,677,144; July 17.
Water wheel. S. H. Taylor. 1,677,464; July 17.
Wetless fabric. F. B. Hanley. 1,677,359; July 17.
Welding, Electric. E. Pugh. 1,677,206; July 17.
Welding, Method of and device for electric. A. H. Adams. 1,677,161; July 17.
Welding of long seams, Electric. J. F. Lawson. 1,677,832; July 17.
Welding parts, Device for. E. Pugh. 1,677,205; July 17.
Wells and strainer shoes for the same, Producing. T. W. and G. E. Thorpe. 1,677,606; July 17.
Wheel: *See*—
Disk wheel. Traction wheel.
Ring wheel. Water wheel.
Steering wheel.
Wheel. J. G. Swain. 1,677,854; July 17.
Window cornice. H. L. Goodrow. 1,677,627; July 17.
Window, Double-hung. S. U. Barr. 1,677,578; July 17.
Window screen, Rolling. G. Mercurio. 1,677,230; July 17.
Window tag for binders, Removable. M. W. and J. D. Federbush. 1,677,277; July 17.
Wipers, Mounting for windshield. G. B. Sayre. 1,677,215; July 17.
Working articles, Method of and apparatus for. F. W. Colbeck and S. Thronsen. 1,677,172; July 17.
Wrench: *See*—
Pipe-flange wrench.
Wrench and screw driver, Socket. W. W. Gast. 1,677,473; July 17.
Wringer: *See*—
Clothes wringer.
Yeast, especially by the aeration process, Manufacture of. A. Pollak. 1,677,529; July 17.

CLASSIFICATION OF PATENTS

ISSUED JULY 17, 1928.

NOTE.—First number=class, second number=subclass, third number=patent number.

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July 24, 1928

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abrams, S., & Sons, New York, N. Y. Articles of jewelry. 244,675; July 24; Serial No. 263,921; published May 8, 1928. Class 28.

Acme Quilting Co., Inc., Brooklyn, N. Y. Textile quilting in the piece and quilts and made-up pads of textile fabrics. 244,524; July 24; Serial No. 259,270; published May 15, 1928. Class 42.

Adams Manufacturing Company, The, New York, N. Y. Textiles. 70,980; renewed Oct. 20, 1928.

Addison Packing Company, Southwest Harbor, Me. Canned sardines. 244,606; July 24; Serial No. 247,055; published May 15, 1928. Class 46.

Adelanto Cider Mill. (See Richardson, James R.)

Advance Neckwear Co., New York, N. Y. Bow ties. 244,582; July 24; Serial No. 243,678; published Apr. 19, 1927. Class 39.

Aitken, Son & Co., to Aitken, Son & Co., New York, N. Y., successors. Hat trimmings. 68,854; renewed May 5, 1928.

Aktiebolaget Sveriges Forenade Konservfabriker, Gottenborg, Sweden. Canned fish. 244,520; July 24; Serial No. 259,523; published May 8, 1928. Class 46.

Aktienbrauerei zum Löwenbräu in München, Munich, Germany. Beer. 71,676; renewed Dec. 8, 1928.

Allied Golf Company, Chicago, Ill. Golf balls. 244,763; July 24; Serial No. 263,848; published May 15, 1928. Class 22.

Aluminate Sales Corporation, Chicago, Ill. Water-treating, water-softening, and water-clarifying compounds. 244,782; July 24; Serial No. 263,253; published May 15, 1928. Class 6.

American Optical Company, Southbridge, Mass. Goggles and parts thereof. 244,647; July 24; Serial No. 263,299; published May 15, 1928. Class 26.

American Rubber & Tire Co., The, doing business as The N. & S. Tire & Rubber Co., Akron, Ohio. Pneumatic rubber tires and tubes. 244,673; July 24; Serial No. 264,069; published May 15, 1928. Class 35.

American Rubber & Tire Co., The, doing business as P. T. C. Tire Co., Akron, Ohio. Pneumatic rubber tires and tubes. 244,769; July 24; Serial No. 263,680; published May 22, 1928. Class 35.

American Smelting & Refining Company, New York, N. Y., and San Francisco, Calif. Nonferrous metals and metal alloys. 244,534–5; July 24; Serial Nos. 257,570–1; published Apr. 3, 1928. Class 14.

American Stores Company, Philadephia, Pa. Cereal breakfast food. 244,596; July 24; Serial No. 263,192; published May 15, 1928. Class 46.

Ames Shovel and Tool Company, Boston, Mass. Shovels, spades, and scoops. 244,668; July 24; Serial No. 263,364; published May 15, 1928. Class 23.

Amorskin Corporation, New York, N. Y. Face cream. 244,685; July 24; Serial No. 262,544; published May 8, 1928. Class 6.

Amyx, C. B., doing business as Pitt Chemical Co., Abilene, Tex. Preparation for use in treating colds. 244,788; July 24. Class 6.

Annetta Waist & Dress Co. Inc., New York, N. Y. Gowns, dresses, wraps, and coats. 244,529; July 24; Serial No. 257,913; published Mar. 27, 1928. Class 39.

Arabian Coffee Company, The. (See Patterson, Thomas A.)

Arden, Elizabeth. (See Lewis, Florence N.)

Arent Bros. Medical Co., Rutland, Iowa. Remedy for diseases of the generative organs. 71,422; renewed Nov. 24, 1928.

Arnold Ointment Company, Macon, Ga. Eczema ointment. 244,800; July 24. Class 6.

Associated Growers of British Columbia, Limited, Vernon, British Columbia, Canada. Fresh apples. 244,738; July 24; Serial No. 263,115; published May 22, 1928. Class 46.

Associated Oil Company, San Francisco, Calif. Crude petroleum, fuel oils, etc. 244,630; July 24; Serial No. 261,231; published May 1, 1928. Class 15.

Associated Oil Company, San Francisco, Calif. Gasoline. 244,643; July 24; Serial No. 261,232; published May 1, 1928. Class 15.

Aull, Watson P., St. Louis, Mo. Wicket attachments for doors. 244,563; July 24; Serial No. 255,788; published May 15, 1928. Class 13.

Auto Refrigerating Company, The, New York, N. Y. Refrigerating trucks. 244,577; July 24; Serial No. 246,380; published May 15, 1928. Class 19.

Auto Safety Signal Company. (See Helmlinger, George A.)

Babare, George, doing business as Babare Mfg. Co., Tacoma, Wash. Freight steamers, tugs, etc. 244,541; July 24; Serial No. 248,984; published May 15, 1928. Class 19.

Baer & Wilde Co., The, Attleboro, Mass. Collar holders. 244,634; July 24; Serial No. 261,546; published May 8, 1928. Class 28.

Baker & Co. Inc., Newark, N. J. Platinum and alloys of platinum. 244,681; July 24; Serial No. 262,891; published May 1, 1928. Class 14.

Ballis Bros., Mount Vernon, N. Y. Distilled water, table water, and beverages. 244,789; July 24. Class 45.

Bal-Draf Mfg. Co., The. (See Stanke, Frank W., assignor.)

Bamberger, L., & Company, Newark, N. J. Dress patterns. 244,657; July 24; Serial No. 263,302; published May 15, 1928. Class 26.

Barlow, John P. H., Philadelphia, Pa. Cold solder. 244,641; July 24; Serial No. 261,416; published May 1, 1928. Class 14.

Bartles-Maguire Oil Company, The, Milwaukee, Wis. Gasoline, motor oil, and other lubricating oils and greases. 244,626; July 24; Serial No. 261,095; published Mar. 20, 1928. Class 15.

Bartles-Maguire Oil Company, The, Milwaukee, Wis. Gasoline. 244,700; July 24; Serial No. 262,691; published May 1, 1928. Class 15.

Bartz, Nicholas B., doing business as Fu-Ma-Cold Company, Grand Rapids, Mich. Medicinal preparation. 244,652; July 24; Serial No. 263,196; published May 8, 1928. Class 6.

Bassick Manufacturing Company, The, Chicago, Ill. Lubricating oils and greases. 244,686; July 24; Serial No. 262,503; published May 8, 1928. Class 15.

Bauman-Massa Jewelry Co., St. Louis, Mo. Finger rings. 244,704; July 24; Serial No. 262,047; published May 1, 1928. Class 28.

Bayle, George A., to Bayle Food Products Company, St. Louis, Mo., successor. Mustard pickles and sauces. 31,805; renewed July 12, 1928.

Belcano Company. (See Rowden, Mary E.)

Belding Heminway Company, New York, N. Y. Textile threads. 244,540; July 24; Serial No. 252,544; published May 15, 1928. Class 43.

Benco Chemical Products Co. (See Benedict, Edward A.)

Benedict, Edward A., doing business as Benco Chemical Products Co., Cleveland, Ohio. Chemical preparation. 244,697; July 24; Serial No. 262,790; published May 8, 1928. Class 6.

Benfield, Albert, New York, N. Y. Metal gas-meter fitting. 244,715; July 24; Serial No. 261,787; published May 15, 1928. Class 13.

Berger, Betty, New York, N. Y. Electric hot-water heater. 244,507; July 24; Serial No. 260,373; published May 1, 1928. Class 21.

Bickers, G. W. & B. B., Clarksburg, W. Va. Coffee. 244,729; July 24; Serial No. 261,934; published May 22, 1928. Class 46.

Bilein Caps Co., Bristol, Tenn. Medicinal preparation for the treatment of torpid liver, etc. 244,720; July 24; Serial No. 261,664; published May 1, 1928. Class 6.

Birmingham Stove and Range Company, Birmingham, Ala. Stoves. 244,671; July 24; Serial No. 262,388; published May 15, 1928. Class 34.

Blue Ribbon Oil Company, Chicago, Ill. Kerosene, fuel oil, naphtha, and gasoline. 244,546; July 24; Serial No. 246,882; published Aug. 2, 1927. Class 15.

Bluine Manufacturing Company, Concord Junction, Mass. Ready-mixed paints. 244,761; July 24; Serial No. 262,504; published May 15, 1928. Class 16.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 244,623; July 24; Serial No. 264,273; published May 8, 1928. Class 42.

Book of Golf Tees Company, The, Detroit, Mich. Golf-tee packages. 244,728; July 24; Serial No. 261,936; published May 8, 1928. Class 22.

Borgfeldt, Geo., & Co., New York, N. Y. Dolls, doll houses, toy animals, etc. 244,774; July 24; Serial No. 263,582; published May 15, 1928. Class 22.

Borsalino Giuseppe e Tratello Società Anonima, Alessandria, Italy. Gentlemen's felt derbies and soft-brimmed hats. 71,574; renewed Dec. 1, 1928.

Borsalino Giuseppe e Tratello Società Anonima, Alessandria, Italy. Hats. 71,575; renewed Dec. 1, 1928.

Brady's, Dr., Soap Co., Inc., Monrovia, Calif. Soap and shaving cream. 244,569; July 24; Serial No. 254,445; published Nov. 22, 1927. Class 4.

Bragg-Kliesrath Corporation, New York and Long Island City, N. Y. Power actuators. 244,624; July 24; Serial No. 261,039; published May 15, 1928. Class 23.

Brown Manufacturing Co., Le Roy, N. Y. Remedy for constipation. 244,614; July 24; Serial No. 225,868; published Mar. 2, 1826. Class 6.

Bryant Heater & Manufacturing Company, The, Cleveland, Ohio. Gas boilers. 244,551; July 24; Serial No. 257,341; published May 15, 1928. Class 34.

Buck, Thomas A., doing business as Roto-Vitalizer, Chicago, Ill. Massaging vibrator. 244,736; July 24; Serial No. 261,236; published May 8, 1928. Class 44.

Buhl, Lucille, Inc., New York, N. Y. Powder puffs. 244,667; July 24; Serial No. 262,571; published May 8, 1928. Class 29.

Bur-Bee Candy Co., Walla Walla, Wash. Bar candy and chocolates. 244,598; July 24; Serial No. 262,950; published May 15, 1928. Class 46.

Bur-Bee Candy Co., Walla Walla, Wash. Bar candy and chocolates. 244,598; July 24; Serial No. 262,950; published May 8, 1928. Class 46.

Butterfield, Fred, & Co., Inc., New York, N. Y. Wool, cotton, silk, rayon, and linen fabrics and combinations thereof in the piece. 244,622; July 24; Serial No. 264,283; published May 15, 1928. Class 42.

Byrd, Lee M., Oakland, Calif. Dolls. 244,759; July 24; Serial No. 262,391; published May 15, 1928. Class 22.

Cadbury Brothers, Limited, Birmingham, England. Cocoa and chocolate. 67,928; renewed Feb. 25, 1928.

Calandra, Charles, doing business as Calandra Brothers, Buffalo, N. Y. Beverages. 244,746; July 24; Serial No. 262,796; published May 22, 1928. Class 45.

California Commercial Company, San Francisco, Calif. Table syrups, canned fruits, etc. 244,797; July 24. Class 46.

California Commercial Company, San Francisco, Calif. Table syrups, canned fruits, etc. 244,798–9; July 24. Class 46.

California Northern Petroleum Co., Oakland, Calif. Lubricating oils. 244,711; July 24; Serial No. 261,859; published May 1, 1928. Class 15.

Caron Corporation. (See Daltroff, Ernest, assignor.)

Carpenter Steel Company, The, Reading, Pa. Steel in bars, billets, and shapes. 244,792–5; July 24. Class 14.

Chalson, Osborne Co., Inc., New York, N. Y. Jewelry. 244,670; July 24; Serial No. 262,393; published May 8, 1928. Class 28.

Champlin Refining Company, Enid, Okla. Gasoline. 244,567; July 24; Serial No. 254,792; published May 8, 1928. Class 15.

Charlestein, Julius, doing business as The Dental Agency, Philadelphia, Pa. Dental hand pieces. 244,791; July 24. Class 44.

Chemical Foundation, Incorporated, The. (See Chemische Fabrik Sulzbach Gesellschaft mit beschränkter Haftung.)

Chemical Foundation, Incorporated, The. (See Dragerwerk Heinr. u. Bernh. Drager, assignor.)

Chemical Foundation, Incorporated. (See Marquart, Firm Dr. L. C., assignor.)

Chemical Foundation, Incorporated. (See Merck, Firm E., assignor.)

Chemical Foundation, Incorporated. (See Pharmaceutisches Institut Ludwig Wilhelm Gans., assignor.)

Chemical Foundation, Incorporated, The. (See Raspe, Firm Carl, assignor.)

Chemische Fabrik Sulzbach Gesellschaft mit beschränkter Haftung, Sulzbach, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Certain remedy for diseases of the blood and infectious diseases. 32,021–2; renewed Oct. 4, 1928.

Chesapeake Oil Company, Baltimore, Md. Lubricating oils. 244,677; July 24; Serial No. 262,953; published May 1, 1928. Class 15.

Chicago Spice & Flavor Co. (See Tesoro, Sam.)

Cleveland Wheelbarrow & Manufacturing Company, The, Cleveland and Garfield Heights, Cleveland, Ohio. Wheelbarrows. 244,613; July 24; Serial No. 227,567; published May 15, 1928. Class 19.

Colgate & Company, Jersey City, N. J., and New York, N. Y. Face powder and face creams. 244,642; July 24; Serial No. 261,240; published May 8, 1928. Class 6.

Collins Company, The, Collinsville, Conn. Axes, hatchets, adzes, etc. 244,771; July 24; Serial No. 263,641; published May 22, 1928. Class 23.

Colonial Leather Goods Co. Inc., New York, N. Y. Belts. 244,578; July 24; Serial No. 245,694; published May 10, 1927. Class 39.

Columbian Enameling & Stamping Co., Terre Haute, Ind. Bathroom and kitchen stools. 244,517; July 24; Serial No. 259,760; published May 15, 1928. Class 32.

Colvin, Lillie M., Louisville, Ky. Medicinal compound. 244,672; July 24; Serial No. 263,073; published May 8, 1928. Class 6.

Concealo Fixture Company, Inc., Oakland, Calif. Built-in woodwork and fixtures. 244,560; July 24; Serial No. 255,968; published Jan 17, 1928. Class 32.

Conde Nast Publications, Inc., The. (See Vogue Company, The.)

Congoleum-Nairn, Inc., Philadelphia, Pa. Plain and inlaid linoleum and cork carpet. 244,512; July 24; Serial No. 260,164; published May 15, 1928. Class 20.

Congoleum-Nairn, Inc., Philadelphia, Pa. Plain and inlaid linoleum and cork carpet. 244,707; July 24; Serial No. 262,019; published May 15, 1928. Class 20.

Connell Bros. Company, Seattle, Wash. Fresh apples. 244,611; July 24; Serial No. 229,725; published Sept. 13, 1927. Class 46.

Conradty, C., Nuremberg, Germany. Carbon sticks, carbon cylinders, etc. 244,554; July 24; Serial No. 257,002; published May 8, 1928. Class 21.

Consolidated Machine Tool Corporation of America, Rochester, N. Y. Axle lathes, engine lathes, carwheel borers, etc. 244,718; July 24; Serial No. 261,698; published May 15, 1928. Class 23.

Consolidated Millinery Company, Chicago, Ill. Ladies' and misses' hats. 244,621; July 24; Serial No. 240,337; published July 12, 1927. Class 39.

Continental Silk Company, Inc., New York, N. Y. Silk piece goods. 244,525; July 24; Serial No. 259,105; published May 15, 1928. Class 42.

Cooper's, Peter, Glue Factory, New York, to Peter Cooper's Glue Factory, Gowanda, N. Y. Glue. 71,601–2; renewed Dec. 1, 1928.

Corn Products Refining Company. (See National Starch Co., assignor.)

Corn Products Refining Company, Jersey City, N. J., and New York, N. Y., to Corn Products Refining Company, New York, N. Y. Gluten feed. 71,634; renewed Dec. 8, 1928.

Corn Products Refining Company, New York, N. Y. Dextrin. 71,656; renewed Dec. 8, 1928.

Cornish Wire Company, Incorporated, New York, N. Y. Insulated copper wire. 244,666; July 24; Serial No. 262,598; published May 1, 1928. Class 21.

Cravenette Company Limited, The, Bradford, England, assignor to The Cravenette Company, U. S. A., Hoboken, N. J. Parasols and umbrellas. 69,476; renewed June 16, 1928.

Cravenette Company, Limited, The, Bradford, England, assignor to The Cravenette Company, U. S. A., Hoboken, N. J. Waterproofed fabrics. 69,743; renewed June 30, 1928.

Crescent Paper Dish Co., Inc., Brooklyn, N. Y. Paper dishes. 244,644; July 24; Serial No. 263,075; published May 15, 1928. Class 2.

Cron & Dehn, Inc., Seattle, Wash. Dried fruit. 244,602; July 24; Serial No. 262,294; published May 15, 1928. Class 46.

Crosfield, Josh., & Sons L't'd., to The Erasmic Company, Ltd., Warrington, England, successor. Toilet soaps, perfumery, and preparations for the teeth, skin, and hair. 31,592; renewed May 24, 1928.

Crosley Radio Corporation, The, Cincinnati, Ohio. Battery-operated radio receiving sets, etc. 244,510; July 24; Serial No. 260,261; published May 8, 1928. Class 21.

Crosley Radio Corporation, The, Cincinnati, Ohio. Electrical phonograph reproducers and parts thereof. 244,625; July 24; Serial No. 261,047; published May 8, 1928. Class 21.

Curtiss Candy Company, The, Chicago, Ill. Candy bars. 244,590; July 24; Serial No. 264,150; published May 15, 1928. Class 46.

Daltroff, Ernest, doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation, New York, N. Y. Pastes and powders for the teeth, skin, hair, and perfumery. 244,528; July 24; Serial No. 258,166; published Feb. 28, 1928. Class 6.

Daltroff, Ernest, doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation, New York, N. Y. Pastes and powders for the teeth, skin, etc., and perfumery. 244,536; July 24; Serial No. 257,531; published Feb. 28, 1928. Class 6.

Daltroff, Ernest, doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation, New York, N. Y. Paste and powders and perfumery. 244,537; July 24; Serial No. 257,530; published May 1, 1928. Class 6.

Daltroff, Ernest, doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation, New York, N. Y. Pastes and powders for beautifying and preserving the teeth, skin, and hair, and perfumery. 244,538; July 24; Serial No. 257,529; published Feb. 28, 1928. Class 6.

Darwin & Milner, Inc., Cleveland, Ohio. Razor blades. 244,785; July 24. Class 28.

Das, Mon M., doing business as Hindu Products Company, Chicago, Ill. Face creams, face powders, etc. 244,708; July 24; Serial No. 261,947; published May 8, 1928. Class 6.

Delta Gamma Fraternity, Minneapolis, Minn. Fraternity badges, lapel buttons, pins, cuff links, etc. 244,691; July 24; Serial No. 262,296; published May 1, 1928. Class 28.

Demco, Incorporated, Baltimore, Md. Electrical apparatus, machines, and supplies, etc. 244,523; July 24; Serial No. 259,325; published Apr. 24, 1928. Class 21.

De Musset, Inc., New York, N. Y. Perfumes, face powders, etc. 244,684; July 24; Serial No. 262,814; published May 8, 1928. Class 6.

Dental Agency, The. (See Charlestein, Julius.)

De Witt, E. C., & Co., assignor to E. C. De Witt & Co. Inc., Chicago, Ill. Dyspepsin cure. 32,134; renewed Nov. 8, 1928.

Diana Radio Tube Corp., New York, N. Y. Radio vacuum tubes. 244,573; July 24; Serial No. 255,057; published May 8, 1928. Class 21.

Diener, Oskar, Kleintschansch, near Breslau, Germany. Wire-drawing dies. 244,688; July 24; Serial No. 262,350; published May 15, 1928. Class 23.

Dietz, R. E., Company, New York, N. Y. Gas-burning vehicle lamps. 71,476; renewed Nov. 24, 1928.

Dietz, R. E., Company, New York, N. Y. Gas headlights. 71,603; renewed Dec. 1, 1928.

Di Fiore, D., Canning Company, San Jose, Calif. Canned fruits and vegetables. 244,608; July 24; Serial No. 243,255; published May 3, 1927. Class 46.

Donnenfeld, M., & Son, Incorporated, New York, N. Y. Coal. 244,784; July 24. Class 1.

Drägerwerk Heinr. u. Bernh. Dräger, Lubeck, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Surgical apparatus. 70,427; renewed Sept. 1, 1928.

Dressen, Phil, & Co., Inc., New York, N. Y. Ladies' and children's hats. 244,543; July 24, Serial No. 247,676; published June 7, 1927. Class 39.

Dunham, C. A., Company, Chicago, Ill. Electric switches for temperature regulation and safety control of heating plants. 244,565; July 24; Serial No. 255,417; published Dec. 27, 1927. Class 21.

Economy Bias Binging Co., New York, N. Y. Piping and bias binding. 244,807; July 24. Class 40.

Elco Paint Products, Inc., New York, N. Y. Ready-mixed paints. 244,741; July 24; Serial No. 263,076; published May 8, 1928. Class 16.

Elco Paint Products, Inc., New York, N. Y. Primer surfacer. 244,745; July 24; Serial No. 262,956; published May 15, 1928. Class 16.

Electric Devices Company, New York, N. Y. Ground clamps, ground grids, etc. 244,650; July 24; Serial No. 263,129; published May 8, 1928. Class 21.

Empresa Agricola Mira-Flores, Rubio, Venezuela. Coffee. 244,655; July 24; Serial No. 263,261; published May 8, 1928. Class 46.

Erasmic Company, Ltd., The, (See Crossfield, Josh., & Sons L't'd.)

Everlastik, Inc., Chelsea, Mass. Elastic-webbing textile piece goods. 244,714; July 24; Serial No. 261,805; published May 8, 1928. Class 42.

Excelsior Brewery Inc., New York, N. Y. Cereal malt beverages. 244,690; July 24; Serial 262,298; published May 15, 1928. Class 45.

Federal Gauge Co., The, Chicago, Ill. Lead wires. 244,615; July 24; Serial No. 211,347; published June 23, 1925; Class 21.

Federal Knitting Mills Company, The. (See Hays, Louis H., assignor.)

Fischer, Carl, Inc., New York, N. Y. Steel and metal covered strings for bow musical instruments. 244,669; July 24; Serial No. 262,397; published May 8, 1928. Class 36.

Fleuti, A. J., doing business as A. J. Fleuti Company, Oakland, Calif. Fruit syrup. 244,662–3; July 24; Serial Nos. 262,652–3; published May 15, 1928. Class 45.

Flomill Chemical Company, New York, N. Y. Hairdressing. 244,506; July 24; Serial No. 260,632; published May 8, 1928. Class 6.

Fluegelman, N., & Co., Inc., New York, N. Y. Silk, cotton, etc., piece goods. 244,638; July 24; Serial No. 261,409; published Mar. 20, 1928. Class 42.

Fox Company. (See Newton, Carl D.)

Frackman, Joseph, Company, Inc., New York, N. Y. Platinum mountings. 244,637; July 24; Serial No. 261,502; published May 1, 1928. Class 28.

French Sardine Company of California, also doing business as French Sardine Co. Inc., Terminal Island, Calif. Canned fish. 244,805; July 24. Class 46.

Fu-Ma-Cold Company. (See Bartz, Nicholas B.)

General Seafoods Corporation, now by change of name General Foods Company, Gloucester, Mass. Fresh roasts of beef, lamb, pork, etc. 244,605; July 24; Serial No. 257,978; published May 15, 1928. Class 46.

German Mineral Salt Import Company, Cleveland, Ohio. Mineral-well salts and preparations. 244,747; July 24; Serial No. 262,709; published May 22, 1928. Class 6.

Gilbert & Co. Inc., New York, N. Y. Finger rings, bar pins, scarf pins, bracelets, and sautoirs. 244,754. July 24; Serial No. 260,681; published May 1, 1928. Class 28.

Gillette Safety Razor Co., assignor to Gillette Safety Razor Company, Boston, Mass. Shaving brushes. 70,428; renewed Sept. 1, 1928.

Gillette Safety Razor Co., assignor to Gillette Safety Razor Company, Boston, Mass. Soap. 70,758; renewed Sept. 29, 1928.

Gillette Safety Razor Co., assignor to Gillette Safty Razor Company, Boston, Mass. Razors and razor blades. 70,856; renewed Oct. 13, 1928.

Gilt Edge Packing Co. (See Jacobson, Anton E.)

Gimbel Brothers, New York, New York, N. Y. Shoes. 244,616; July 24; Serial No. 177,840; published Mar. 29, 1927. Class 39.

Goodman, Aaron, doing business as Swan Watch Co., New York, N. Y. Watches, watch movements, and watchcases. 244,549; July 24; Serial No. 249,656; published May 8, 1928. Class 27.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Tires and parts, rubber hose and tubing, etc. 244,710; July 24; Serial No. 261,875; published May 15, 1928. Class 35.

Goulds Pumps, Incorporated, Seneca Falls, N. Y. Carwasher pump. 244,553; July 24. Serial No. 257,286; published May 15, 1928. Class 23.

Grand Traverse Packing Company, Traverse City, Mich. Canned cherries. 244,593; July 24; Serial No. 263,651; published May 15, 1928. Class 46.

Grimble & Co., Limited, London, England. Malt vinegar. 70,729; renewed Sept. 29, 1928.

Groblewski, Albert G., & Co., Incorporated, Plymouth, Pa. Salve for fresh cuts, boils, and wounds. 244,547; July 24; Serial No. 250,918; published July 26, 1927. Class 6.

Gross, Benjamin & Edward J., Co., Inc., New York, N. Y. Finger rings and mountings therefor. 244,694; July 24; Serial No. 262,220; published May 8, 1928. Class 28.

Gura, Louis H., doing business as Piazza Bros., New York, N. Y. Jewelry. 244,619; July 24; Serial No. 260,729; published May 1, 1928. Class 28.

Gustav Glaser Co., Inc., New York, N. Y. Proof boxes, storage bins, etc. 244,627; July 24, Serial No. 261,109; published May 15, 1928. Class 2.

Hague, Harry, Akron, Ohio. Ointment and salve. 244,764; July 24; Serial No. 263,821; published May 15, 1928. Class 6.

Haines Manufacturing Corporation, Rochester, N. Y. Locks and safes. 244,521; July 24; Serial No. 259,491; published May 15, 1928. Class 25.

Hanover Rubber Co. "Excelsior" Inc., New York, N. Y. Syringes. 244,737; July 24; Serial No. 261,001; published May 15, 1928. Class 44.

Hanrahan Pharmacal Co. Inc., to Frank C. Hanrahan, Portsmouth, Va., successor. Compound purgative elixir. 69,809; renewed July 7, 1928.

Hays, Louis H., assignor to The Federal Knitting Mills Company, Cleveland, Ohio. Knit goods. 56,661; renewed Oct. 16, 1926.

Helmlinger, George A., doing business as Auto Safety Signal Company, San Francisco, Calif. Electrically-operated automobile dashboard signal light. 244,516; July 24; Serial No. 259,852; published May 1, 1928. Class 21.

Heneph Corporation, The, Kingston, N. Y. Medicinal tablets. 244,696. July 24; Serial No. 262,803; published May 1, 1928. Class 6.

Hindu Products Company. (See Das, Mon M.)

Hirsch, B. F., Inc., New York, N. Y. Bar pins, bracelets, brooches, pendants, etc. 244,717; July 24; Serial No. 261,753; published May 8, 1928. Class 28.

Hohner, M., Inc., New York, N. Y. Harmonicas. 244,533; July 24; Serial No. 257,628; published May 1, 1928. Class 36.

Home Fertilizer Company, Inc., Baltimore and Curtis Bay, Md., and Norfolk, Va. Fertilizers. 244,787; July 24. Class 10.

Hood Rubber Company, Boston, Mass., to Hood Rubber Company, Watertown, Mass. Rubber boots and shoes. 71,300; renewed Nov. 17, 1928.

Hood Rubber Company, Watertown, Mass. Pneumatic and cushion tires and tubes. 244,755; July 24; Serial No. 261,571; published May 22, 1928. Class 35.

Horsman, E. I., Co. Inc., New York, N. Y. Dolls. 244,752; July 24; Serial No. 262,517; published May 8, 1928. Class 22.

Hubbard, M. P., & Company, Inc., Baltimore and Curtis Bay, Md., and Norfolk, Va., Fertilizers. 244,786; July 24. Class 10.

Hudnut, Richard, New York, N. Y. Talcum powder, face powder, etc. 244,651; July 24; Serial No. 263,152; published May 8, 1928. Class 6.

Illinois Watch Case Company, Elgin, Ill. Watches, watch movements, and watchcases. 244,548; July 24; Serial No. 250,176; published Aug. 30, 1927. Class 27.

Indiana Cotton Mills, Cannelton, Ind. Cotton sheetings. 71,051; renewed Oct. 27, 1928.

Indiana Cotton Mills, Cannelton, Ind. Cotton sheetings. 71,301; renewed Nov. 17, 1928.

International Gum Corp., Long Island City, N. Y. Chewing gum. 244,601; July 24; Serial No. 262,307; published May 15, 1928. Class 46.

International Milling Company, doing business as Mystic Mills, Minneapolis, Minn., and Leeds, Iowa. Wheat flour. 244,766; July 24; Serial No. 263,763; published May 8, 1928. Class 46.

Jacobson, Anton E., doing business as Gilt Edge Packing Co., San Francisco, Calif. Bleaching water. 244,701; July 24; Serial No. 262,662; published May 8, 1928. Class 6.

Jennings Bakery, New York, N. Y. Bread, rolls, cakes, pastry, and pie. 244,744; July 24; Serial No. 263,043; published May 8, 1928. Class 46.

Johann, Louis, doing business as Louis Johann Canning Company, Collinsville, Ill. Canned tomatoes, sauerkraut, beans, squab, and squab broth. 244,603; July 24; Serial No. 261,258; published May 1, 1928. Class 46.

Johns-Manville Corporation. (See Johns-Manville H. W., Company, assignor.)

Johns-Manville, H. W., Company, assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y. Fire-extinguishers. 70,304; renewed Aug. 18, 1928.

Johns-Manville, H. W., Company, assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y. Pipe and boiler covering. 71,592; renewed Dec. 1, 1928.

Johnson, George H., assignor to Johnson's Laboratory, Inc., Worcester, Mass. Preparations for blacking or dressing iron surfaces. 71,381; renewed Nov. 24, 1928.

Johnson, Paul E., Incorporated, Chicago, Ill. Therapeutic lamps. 244,727; July 24; Serial No. 262,088; published May 15, 1928. Class 44.

Jollofsky, S., & Sons, Inc., New York, N. Y. Finger rings, brooches, bracelets, etc. 244,719; July 24; Serial No. 261,676; published May 8, 1928. Class 28.

Jones, Orville D., Chicago, Ill. Chewing gum. 71,640; renewed Dec. 8, 1928.

Kahler Shoe Co. Inc., The, New York, N. Y. Shoes. 244,586; July 24; Serial No. 239,037; published Dec. 13, 1927. Class 39.

Karas Electric Company, Chicago, Ill. Alternating-current transformers. 244,665; July 24; Serial No. 262,611; published May 8, 1928. Class 21.
Karnak Chemical Company, West Chester, Pa. Salted almonds. 244,595; July 24; Serial No. 263,214; published May 15, 1928. Class 46.
Kaufer Bros., New York, N. Y. Jewelry. 244,623; July 24; Serial No. 261,574; published May 8, 1928. Class 28.
Kauffman, Benjamin W., Camden, N. J. Ginger ale. 244,777; July 24; Serial No. 263,530; published May 22, 1928. Class 45.
Kaufman, J. L., Corp., New York, N. Y. Finger rings, bar pins, scarf pins, bracelets, and sautoirs. 244,620; July 24; Serial No. 260,686; published May 1, 1928. Class 28.
King Manufacturing Corporation, Buffalo, N. Y. Automotive parts. 244,575; July 24; Serial No. 246,613; published May 17, 1927. Class 13.
King Quality Products Inc., Buffalo, N. Y. Automotive parts. 244,588; July 24; Serial No. 233,558; published May 3, 1927. Class 23.
Knoke, H. C., & Company, Chicago, Ill. Dried green split peas. 244,594; July 24; Serial No. 263,217; published May 15, 1928. Class 46.
Koenig, Harry D., doing business as Harry D. Koenig & Co., New York, N. Y. Dentifrices, nail powder, cuticle ice, etc. 244,515; July 24; Serial No. 259,856; published May 1, 1928. Class 6.
Kohler Company, Kohler, Wis. Acid-resisting enamel ware. 244,562; July 24; Serial No. 255,810; published May 15, 1928. Class 13.
Kohlmann, John, Beaver Falls, Pa. Beverages and syrups for making the same. 244,768; July 24; Serial No. 263,708; published May 22, 1928. Class 45.
Laboratories "Stella," Paris, France. Glandular extracts. 244,723; July 24; Serial No. 262,313; published May 15, 1928. Class 6.
Lambert Pharmacal Company, Wilmington, Del. Medicated preparation for the treatment of the hair and scalp and the removal of dandruff. 244,676; July 24; Serial No. 263,020; published May 1, 1928. Class 6.
Larabee Flour Mills Company, The, Kansas City, Mo. Wheat flour. 244,557; July 24; Serial No. 256,197; published May 1, 1928. Class 46.
Lauter Co., assignor to Lauter Humana Co., Newark, N. J. Pianos, player pianos and player piano actions. 68,519; renewed Apr. 14, 1928.
Leo, D. C., & Co. (See Weeks, D., & Company.)
Leonardi, S. B., & Co. Inc., sometimes trading under the name and style of The Papsomax Co., New Rochelle, N. Y. Antacid and digestant. 244,683; July 24; Serial No. 262,856; published May 8, 1928. Class 6.
Lever Brothers, Limited, Port Sunlight, England. Vitamin concentrates. 244,668; July 24; Serial No. 262,471; published May 8, 1928. Class 6.
Levy, Maurice, New York, N. Y. Powder puffs. 244,629; July 24; Serial No. 261,198; published May 1, 1928. Class 29.
Levy, Sylvan, New York, N. Y. Jewelry. 244,618; July 24; Serial No. 260,739; published May 1, 1928. Class 28.
Lewis, Florence N., doing business as Elizabeth Arden, New York, N. Y. Perfumes and toilet waters. 244,645; July 24; Serial No. 263,093; published May 8, 1928. Class 6.
Lewis, Janet C., doing business as J. C. Lewis Co., New York, N. Y. Preservative and food for all leather. 244,583; July 24; Serial No. 242,379; published Feb. 21, 1928. Class 4.
Loftis Bros. & Co., Chicago, Ill. Jewelry. 244,511; July 24; Serial No. 260,231; published May 1, 1928. Class 28.
Looboyle Refining Company, Tulsa, Okla., and Joplin, Mo. Motor fuel oils. 244,584; July 24; Serial No. 241,733; published May 8, 1928. Class 15.
Lusch, Arden, doing business as R. & L. Mfg. Co., Los Angeles, Calif. Electrically-operated massage devices. 244,722; July 24; Serial No. 262,316; published May 8, 1928. Class 44.
Mabie, Todd & Co., New York, N. Y. Fountain pens. 71,446; renewed Nov. 24, 1928.
MacKenzie, Robt F., Co., The, Cleveland, Ohio. Candy. 244,749; July 24; Serial No. 252,665; published May 22, 1928. Class 46.
Manufacture Lyonnaise de Filés d'Or et d'Argent, Lyon, France. Imitation real golden or silver gilt threads on textile core. 244,513; July 24; Serial No. 260,067; published May 15, 1928. Class 43.
Margolis, Nathan H., doing business as Onkor Company, Cleveland, Ohio. Beverages. 244,689; July 24; Serial No. 262,319; published May 15, 1928. Class 45.
Marquart, Firm Dr. L. C., Kenel, near Bonn, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Unguent for skin diseases. 32,086; renewed Oct. 25, 1928.
Marvin, Walter, doing business as Templar Oil Products Co., Brooklyn, N. Y. Adhesives and cements. 244,751; July 24; Serial No. 262,572; published May 8, 1928. Class 5.
Mathey, Louis C., Nashville, Tenn. Fishhooks and fishing rods. 244,740; July 24; Serial No. 263,096; published May 8, 1928. Class 22.
McIlratney, Robert, & Co., New York, N. Y. Linen piece goods. 244,552; July 24; Serial No. 257,299; published May 15, 1928. Class 42.
Mechanical Products Corporation, Boston, Mass. Spark plugs. 244,664; July 24; Serial No. 262,617; published May 1, 1928. Class 21.
Medi-Jell Products, Inc., New York and Brooklyn, N. Y. Ointment preparation. 244,705–6; July 24; Serial Nos. 262,037–8; published May 1, 1928. Class 6.
Merck, E., Darmstadt, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Chemical and medicinal preparations. 32,002–3; renewed Sept. 27, 1928.
Mercrem Laboratories. (See York, Joseph W., and Jacob Sunshine.)
Mergott, J. E., Company Newark, N. J. Smokers' metal ash trays. 244,709; July 24; Serial No. 261,902; published May 15, 1928. Class 8.
Merit Hosiery Company, Ozone Park, N. Y. Hosiery. 244,636; July 24; Serial No. 261,518; published Apr. 3, 1928. Class 39.
Meyer, William C., doing business as Wm. C. Meyer Drug Specialty Co., St. Louis, Mo. Antiseptic and germicide. 244,581; July 24; Serial No. 245,019; published May 8, 1928. Class 6.
Mibalm Company, Pittsburgh, Pa. Liquid vanishing cream and shampoo. 244,580; July 24; Serial No. 245,102; published May 8, 1928. Class 6.
Midwest Varnish Company, Chicago, Ill. Dry, paste, and ready-mixed paints, varnishes, and enamels. 244,760; July 24; Serial No. 263,505; published May 15, 1928. Class 16.
Mitchell, P. R., Co., The, New York, N. Y. Pillows. 244,703; July 24; Serial No. 262,173; published May 15, 1928. Class 32.
Mitsubishi Shoji Kaisha, Ltd., Tokyo, Japan; New York, N. Y.; and Seattle, Wash. Canned crab meat. 244,531; July 24; Serial No. 257,810; published May 1, 1928. Class 46.
Monamotor Oil Company. (See Monarch Manufacturing Company, assignor.)
Monarch Manufacturing Company, The, Council Bluffs, Iowa, and Toledo, Ohio, assignor to Monamotor Oil Company, Council Bluffs, Iowa. Axle grease. 71,549; renewed Dec. 1, 1928.
Mother Seigel's Syrup Co., The, now by change of name to A. J. White, Limited, New York, N. Y. Dyspepsia remedies. 71,448; renewed Nov. 24, 1928.
Mother Seigel's Syrup Co., The, now by change of name to A. J. White, Limited, New York, N. Y. Laxative pills. 71,449; renewed Nov. 24, 1928.
Mother Seigel's Syrup Co., The, now by change of name to A. J. White, Limited, New York, N. Y. Dyspepsia remedies. 71,510; renewed Dec. 1, 1928.
Motoroyal Oil Co., Denver, Colo. Lubricating oils and greases. 244,753; July 24; Serial No. 262,372; published May 15, 1928. Class 15.
Mystic Mills. (See International Milling Company.)
N. & S. Tire & Rubber Co., The. (See American Rubber & Tire Co.)
Nason, R. N., & Co., San Francisco, Calif. Lacquer floor covering. 244,776; July 24; Serial No. 263,557; published May 15, 1928. Class 16.
National Flexible Glue Co., Chicago, Ill. Adhesive cold-water paste powder, glue, etc. 244,803; July 24. Class 5.
National India Rubber Company, Bristol, R. I. Insulated wire. 70,738; renewed Sept. 29, 1928.
National Starch Co., Jersey City, N. J., and Oswego, N. Y., assignor to Corn Products Refining Company, New York, N. Y. Cornstarch. 71,550; renewed Dec. 1, 1928.
National Starch Co., Jersey City, N. J., and Oswego, N. Y., assignor to Corn Products Refining Company, New York, N. Y. Laundry starch. 71,599; renewed Dec. 1, 1928.
Nazli Ali Haydar, Smyrna, Turkey. Figs. 244,505; July 24; Serial No. 260,634; published May 8, 1928. Class 46.
New England Farm & Garden Ass'n, Inc., Boston, Mass. Garden stakes. 244,804; July 24. Class 50.
New England Fish Co., Seattle, Wash. Canned salmon. 244,574; July 24; Serial No. 253,040; published Apr. 3, 1928. Class 46.
Newton, Carl D., doing business as Fox Company, San Antonio, Tex. Hosiery, underwear, hats, dresses, etc. 244,566; July 24; Serial No. 255,394; published Mar. 20, 1928. Class 39.
New York Coal Company, Columbus, Ohio. Coal. 244,783; July 24. Class 1.
Nine-Ten Remedy Company, Memphis, Tenn. Malaria, chills, fever, colds medicine, and headache and neuralgia medicine. 244,631; July 24; Serial No. 261,643; published May 8, 1928. Class 6.
Northrup, King & Company, Minneapolis, Minn. Feed. 244,609; July 24; Serial No. 240,992; published Jan. 11, 1927. Class 46.
Nowland, Geo. H., Company, The, Cincinnati, Ohio. Petroleum jelly. 244,699; July 24; Serial No. 262,762; published May 8, 1928. Class 6.
Nutrena Feed Mills, Inc., Kansas City, Kans. Stock feeds. 244,600; July 24; Serial No. 262,376; published May 15, 1928. Class 46.

Oakdale Cotton Mills, Jamestown, N. C. Twine, rope, and cord. 244,716; July 24; Serial No. 261,764; published May 15, 1928. Class 7.
Oakford & Fahnestock, Peoria, Ill. Coffee. 71,789; renewed Dec. 15, 1928.
Onkor Company. (See Margolis, Nathan H.)
Opnseel Company, The, Portsmouth, Ohio. Combined bottle opener and pouring spout. 244,772; July 24; Serial No. 263,615; published May 22, 1928. Class 23.
Osterweis, Lewis, & Sons, New Haven, Conn. Cigars. 244,765; July 24; Serial No. 263,785; published May 22, 1928. Class 17.
Osterweis, Rose, doing business as Lewis Osterweis & Sons, New Haven, Conn. Cigars. 244,550; July 24; Serial No. 257,433; published May 15, 1928. Class 17.
Ottenheimer, Reuben E., doing business as The Reel Refrigerator Co., Baltimore, Md. Refrigerators of all types. 244,758; July 24; Serial No. 262,254; published May 15, 1928. Class 31.
P. T. C. Tire Co. (See American Rubber & Tire Co.)
Pacific Coast Biscuit Company, Seattle, Wash. Cough drops. 244,589; July 24; Serial No. 235,416; published Oct. 4, 1927. Class 6.
Palmolive-Peet Company, The, Chicago, Ill. Saponaceous shaving cream. 244,571; July 24; Serial No. 253,907; published Apr. 10, 1928. Class 4.
Palmolive-Peet Company, The, Chicago, Ill. Saponaceous shaving cream. 244,571; July 24; Serial No. 253,907; published Apr. 17, 1928. Class 4.
Panhandle Refining Company, Wichita Falls, Tex. Petroleum products. 244,682; July 24; Serial No. 262,867; published May 1, 1928. Class 15.
Pantasote Leather Company, The, Passaic, N. J. Manufactured imitation leather. 32,125; renewed Nov. 8, 1928.
Papsomax Co., The. (See Leonardi, S. B., & Co. Inc.)
Paraffine Paint Co., The, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Waterproof material. 69,554; renewed June 23, 1928.
Parfumerie Caron. (See Daltroff, Ernest.)
Patterson, Thomas A., doing business as The Arabian Coffee Company, Washington, D. C. Coffee. 244,687; July 24; Serial No. 262,482; published May 8, 1928. Class 46.
Pellens, Geo. E., Co., The, Cincinnati, Ohio. Coffee. 244,790; July 24. Class 46.
Penberthy Injector Company, to Penberthy Injector Company, Detroit, Mich., successor. Steam-boiler injectors. 71,070; renewed Oct. 27, 1928.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Rubber sheeting. 244,730; July 24; Serial No. 261,927; published May 8, 1928. Class 44.
Pennino, Oreste, doing business as Pennino Brothers, New York, N. Y. Jewelry. 244,564; July 24; Serial No. 255,464; published May 1, 1928. Class 28.
Penton, Edward, doing business as E. Penton and Son, London, England. Leather dressing for polishing and preserving leather. 244,539; July 24; Serial No. 252,564; published Nov. 8, 1927. Class 4.
Peoples Drug Stores, Inc., Washington, D. C. Candy. 244,592; July 24; Serial No. 263,969; published May 15, 1928. Class 46.
Pepperell Manufacturing Company, Boston, Mass. Bed sheets and slips, sheeting in the piece, silk fabrics, etc. 244,660; July 24; Serial No. 263,666; published May 1, 1928. Class 42.
Perfection Biscuit Company, Fort Wayne, Ind. Wafers, biscuits, crackers, cakes, and bread. 70,629; renewed Sept. 15, 1928.
Perlin Perepetual Battery Company, Los Angeles, Calif. Automobile electric storage starting and lighting batteries. 244,802; July 24. Class 21.
Peterson Nut Company, Cleveland, Ohio. Candied and salted nuts and nuts in their natural state. 244,604; July 24; Serial No. 258,856; published May 15, 1928. Class 46.
Pharmaceutisches Institut Ludwig Wilhelm Gans, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Powders, pills, tablets, perls, ointments, and tinctures. 31,963; renewed Sept. 13, 1928.
Piazza Bros. (See Gura, Louis H.)
Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat flour. 244,731; July 24; Serial No. 263,422; published May 8, 1928. Class 46.
Pilot Electric Manufacturing Company, Inc., The, Brooklyn, N. Y. Vernier dials and illuminated dials. 244,576; July 24; Serial No. 246,118; published May 8, 1928. Class 21.
Pinnacle Mills, Morristown, Tenn. Feed. 244,775; July 24; Serial No. 263,560; published May 8, 1928. Class 46.
Pitt Chemical Co. (See Amyx, C. B.)
Pittsburgh Safety Glass Company, Pittsburgh, Pa. Laminated sheet glass. 244,656; July 24; Serial No. 263,280; published May 15, 1928. Class 33.
Polar Ware Company, Sheboygan, Wis. Metal kitchen and cooking pots and kettles, etc. 244,659; July 24; Serial No. 263,423; published May 15, 1928. Class 13.
Poliakoff, Rouvime, New York, N. Y. Mechanical advertising machines. 244,509; July 24; Serial No. 260,288; published May 15, 1928. Class 23.
Pond's Extract Company, New York, N. Y. Skin freshener and tonic. 244,522; July 24; Serial No. 259,419; published May 1, 1928. Class 6.
Portage Underwear Manufacturing Co., Portage, Wis. Ladies' and children's underwear of knitted and textile fabric. 244,579; July 24, Serial No. 245,289; published Oct. 25, 1927. Class 39.
Procter & Gamble Company, The (See Pyle, James, & Sons, assignor.)
Pyle, James, & Sons, Edgewater, N. J., assignor to The Procter & Gamble Company, Cincinnati, Ohio. Lye, potash, and caustic soda. 69,515; renewed June 16, 1928.
Pyle, James, & Sons, assignor to The Procter & Gamble Company, Cincinnati, Ohio. Soaps of all kinds and detergent washing powder. 69,573; renewed June 23, 1928.
Pyo-Coda Laboratories, Inc., doing business as Pyo-Coda Laboratories, New York, N. Y. Mouth wash and gargle. 244,732; July 24; Serial No. 261,766; published May 22, 1928. Class 6.
Pyratone Products Corporation, Chicago, Ill. Golf clubs and parts thereof. 244,780; July 24; Serial No. 263,424; published May 15, 1928. Class 22.
Pyro Chemical Company, as assignee of George A. Swartout, assignor, by mesne assignments, to The Pyrodento Company, Baltimore, Md. Tooth paste and tooth wash. 71,723; renewed Dec. 15, 1928.
Pryo-Coda Laboratories. (See Pyo-Coda Laboratories, Inc.)
Pyrodento Company, The. (See Pyro Chemical Company, assignor.)
Quaker Hat Co., Inc., New York, N. Y. Hats. 244,585; July 24; Serial No. 240,364; published May 31, 1927. Class 39.
Queen City Soap Co., Allentown, Pa. Hand-washing powder. 244,570; July 24; Serial No. 254,150; published May 1, 1928. Class 4.
R. & L. Mfg. Co. (See Lusch, Arden.)
Radium Minerals Corporation, New York, N. Y. Mineral water. 244,680; July 24; Serial No. 262,928; published May 15, 1928. Class 45.
Radax Products Company, Berkeley, Calif. Health biscuits. 244,724; July 24; Serial No. 262,258; published May 8, 1928. Class 46.
Ramsey, Edward J., doing business as Ramsey's "They Cannot Rip," New York, N. Y. Leather shoes. 244,545; July 24; Serial No. 247,284; published Dec. 13, 1927. Class 39.
Raspe, Firm Carl, Weissensee, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Disinfecting, antiseptic, and aseptizing preparations. 31,950; renewed Sept. 6, 1928
Rath Packing Company, The Waterloo, Iowa. Bacon. 244,591; July 24, Serial No. 260,050; published May 15, 1928. Class 46.
Red-Bar Battery Company, Dayton, Ohio. Storage batteries. 244,632; July 24; Serial No. 261,588; published May 1, 1928. Class 21.
Red "C" Oil Company, The, Baltimore, Md. Illuminating oil and gasoline. 244,587; July 24, Serial No. 234,922; published Aug. 30, 1927. Class 15.
Reel Refrigerator Co., The. (See Ottenheimer, Reuben E.)
Resnek, Regina, New York, N. Y. Lip sticks, rouge, shampoo, etc. 244,742; July 24; Serial No. 263,050; published May 22, 1928. Class 6.
Revere Rubber Co., Boston, Mass., assignor to United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Hose, belting, packing, valves, gaskets, and springs. 31,930; renewed Sept. 6, 1928.
Rhenania-Kunheim Verein Chemischer Fabriken A.-G., Berlin, Germany. Chemicals. 244,731; July 24; Serial No. 261,768; published May 22, 1928. Class 6.
Rice's, Bernard, Sons, Inc., New York, N. Y. Silver hollow ware. 244,679; July 24; Serial No. 262,931; published May 8, 1928. Class 28.
Richardson, James R., doing business as Adelanto Cider Mill, Los Angeles, Calif. Maltless beverages. 244,508; July 24; Serial No. 260,292; published May 15, 1928. Class 45.
Riverside Manufacturing Co., St. Louis, Mo. Cleaning fluids. 244,518; July 24; Serial No. 259,500; published Mar. 13, 1928. Class 4.
Riverside Manufacturing Co., St. Louis, Mo. Detergent and solvent compounds. 244,519; July 24; Serial No. 259,569; published Mar. 13, 1928. Class 4.
Roach, Tisdale & Co., Minneapolis, Minn. Candy jellies. 69,951; renewed July 21, 1928.
Robertson, Andrew A., Chicago, Ill. Golf clubs. 244,725; July 24; Serial No. 262,180; published May 8, 1928. Class 22.
Robeson Rochester Corporation, Rochester, N. Y. Teapots, sugar bowls, pie servers, etc. 244,646; July 24; Serial No. 263,104; published May 15, 1928. Class 30.
Rogers, Wm. A., Limited, Toronto, Ontario, Canada, and Niagara Falls, N. Y. Silver-plated ware. 69,548; renewed June 16, 1928.
Rolmonica Music Co. of Baltimore, Maryland, The, Baltimore, Md. Musical instruments. 244,635; July 24; Serial No. 261,522; published May 8, 1928. Class 36.
Roto-Vitalizer. (See Buck, Thomas A.)

Rowden, Mary E., doing business as Belcano Company, Cleveland Heights, Ohio. Cosmetics. 244,640; July 24; Serial No. 261,457; published May 1, 1928. Class 6.

Royalite Stores, Inc., Detroit, Mich. Electric-lighting fixtures. 244,678; July 24; Serial No. 262,935; published May 8, 1928. Class 21.

Rubber Service Laboratories Co., The, Akron, Ohio. Compound used as a vulcanization accelerator in the curing of rubber articles. 244,695; July 24. Serial No. 262,820; published May 1, 1928. Class 6.

Sayman, Thomas M., St. Louis, Mo. Salve for the treatment of certain diseases. 70,645; renewed Sept 22, 1928.

Schultz, Max, Buffalo, N. Y. Foot protectors. 71,193; renewed Nov. 10, 1928.

Seggermann Bros., New York, assignor, by mesne assignments, to Standard Apple Products, Inc., Hamlin, N. Y. Dried fruits. 32,044–5; renewed Oct. 11, 1928.

Seggermann Bros., New York, assignor, by mesne assignments, to Standard Apple Products, Inc., Hamlin, N. Y. Dried fruits and canned food products. 32,047; renewed Oct. 11, 1928.

Seggermann Bros., New York, assignor, by mesne assignments, to Standard Apple Products, Inc., Hamlin, N. Y. Dried fruits. 32,091; renewed Oct. 25, 1928.

Seibel, John L., Lodi, Calif. Fresh grapes. 244,750; July 24; Serial No. 262,628; published May 22, 1928.

Selfreat-Elstad Machinery Company, The, Dayton, Ohio. Metal-working and woodworking machinery. 244,713; July 24; Serial No. 261,841; published May 15, 1928. Class 23.

Selby, Ralpha H., Fairoaks, Calif. Dried fruits. 244,610; July 24; Serial No. 238,286; published May 15, 1928. Class 46.

Seymour, Donald H., Westmonnt, Quebec, Canada. Tooth pastes and washes. 244,639; July 24; Serial No. 261,461; published May 8, 1928. Class 6.

Shapiro, Ira J., New York, N. Y. Safety-razor blades. 244,739; July 24; Serial No. 263,105; published May 22, 1928. Class 23.

Sierra Club Beverage Co. Inc., Glendale, Calif. Beverages and syrups, extracts, and concentrates for preparing the same. 244,628; July 24; Serial No. 261,150; published May 15, 1928. Class 45.

Sierra Madre-Lamanda Citrus Association, Lamanda Park, Calif. Oranges, lemons, and grapefruit. 244,607; July 24; Serial No. 244,891; published Feb. 21, 1928. Class 46.

Simmons Hardware Company, St. Louis, Mo., to Simmons Hardware Company, New Haven, Conn. Razor strops. 71,562; renewed Dec. 1, 1928.

Smith, Kline & French Company, Philadelphia, Pa. Medicine for the treatment of arthritis. 244,712; July 24; Serial No. 261,656; published May 8, 1928. Class 6.

Smith Oil & Refining Company, Rockford, Ill. Preparation for filling cigar and cigarette lighters. 244,779; July 24; Serial No. 263,440; published May 15, 1928. Class 6.

Société à Responsibilité Limitée Molyneux & Cie., Paris, France. Perfume, toilet water, face cream, etc. 244,527; July 24; Serial No. 258,603; published May 8, 1928. Class 6.

Societe Parisienne des Produits de Beaute Ganna Walska, Paris, France. Perfumes, eau de cologne, lotions, etc. 244,559; July 24; Serial No. 256,059; published May 8, 1928. Class 6.

Spencerian Pen Company, The, New York, N. Y. Articles of stationery. 32,197; renewed Dec. 6, 1928.

Splitdorf Radio Corporation, Newark, N. J. Radio receiving sets, loud speakers, etc. 244,532; July 24; Serial No. 257,710; published May 8, 1928. Class 21.

Standard Apple Products, Inc. (See Seggermann Bros.)

Standard Gage Company, Inc., Poughkeepsie, N. Y. Dial indicating gages, snap gages, etc. 244,796; July 24. Class 26.

Standard Oil Company of New York, New York, N. Y. Refined petroleum. 69,674–5; renewed June 30, 1928.

Stanke, Frank W., doing business as The Bal-Draf Mfg. Co., assignor to The Bal-Draf Mfg. Co., Milwaukee, Wis. Smoke-flue dampers. 244,514; July 24; Serial No. 259,884; published May 15, 1928. Class 34.

Stark Brothers Ribbon Corporation, New York, N. Y. Rosettes. 244,806; July 24. Class 40.

Stavanger Preserving Company, to Stavanger Preserving Co. A/S, Stavanger, Norway, successor. Smoked sardines in oil. 70,539; renewed Sept. 8, 1928.

Steiff, Margarete, Inc., New York, N. Y. Stuffed toy animals. 244,773; July 24; Serial No. 263,613; published May 15, 1928. Class 22.

Steiner, Emil, Brawley, Calif. Grapefruit. 244,748; July 24; Serial No. 262,683; published May 22, 1928. Class 46.

Sterling Chemical Co., Inc., Los Angeles, Calif. Cold-water paint, stucco paint, etc. 244,756; July 24; Serial No. 262,188; published May 15, 1928. Class 16.

Sterno Corporation, New York, N. Y. Preparation for the treatment of colds, grippe, etc. 244,648; July 24; Serial No. 263,106; published May 1, 1928. Class 6.

Superior Cabinet Corporation, New York, N. Y. Radio cabinets. 244,568; July 24; Serial No. 254,729; published May 15, 1928. Class 32.

Swan Watch Co. (See Goodman, Aaron.)

Swartout, George A. (See Pyro Chemical Company, assignor.)

Swift and Company, Chicago, Ill. Packing-house products. 32,233; renewed Dec. 13, 1928.

Swift and Company, Chicago, Ill. Packing-house products. 32,235; renewed Dec. 13, 1928.

Syd Radio Storage "B" Battery Co., Chicago, Ill. Batteries. 244,526; July 24; Serial No. 259,085; published May 8, 1928. Class 21.

Tasty Doughnut Co., Battle Creek, Mich. Doughnuts. 244,801; July 24. Class 46.

Templar Oil Products Co. (See Marvin, Walter, assignor.)

Ternstedt Manufacturing Company, Detroit, Mich. Automobile body hardware. 244,555; July 24; Serial No. 256,842; published May 1, 1928. Class 14.

Ternstedt Manufacturing Company, Detroit, Mich. Automobile electric dome lights and electric corner lights. 244,556; July 24; Serial No. 256,841; published May 8, 1928. Class 21.

Tesoro, Sam, doing business as Chicago Spice & Flavor Co., Chicago, Ill. Spices and flavoring extracts. 244,558; July 24; Serial No. 256,062; published May 8, 1928. Class 46.

Teutonia Misburger Portland-Cement Werk, Misburg, to Teutonia Misburger Portland Cementwerk, Hannover, Germany. Portland cement. 31,524; renewed May 10, 1928.

Titanium Alloy Manufacturing Company, The, Niagara Falls, N. Y. Ceramic materials. 244,698; July 24; Serial No. 262,780; published May 1, 1928. Class 6.

Traun, Dr. Heinr., & Söhne, vormals Harburger Gummi-Kamm-Compagnie, Hamburg, Germany. Parts for radio sets. 244,762; July 24; Serial No. 262,985; published May 15, 1928. Class 21.

Trifari, Krussman & Fishel, Inc., New York, N. Y. Jewelry. 244,693; July 24; Serial No. 262,271; published May 1, 1928. Class 28.

Turner, Sam, Company, The, Liverpool, England. Toffee. 244,530; July 24; Serial No. 257,908; published May 1, 1928. Class 46.

Twentieth Century Bakery, Inc., Haverhill, Mass. Buns. 244,767; July 24; Serial No. 263,737; published May 8, 1928. Class 46.

United Chapters of Phi Beta Kappa, The, New York, N. Y. Fraternity badges, lapel buttons, pins, cuff links, etc. 244,542; July 24; Serial No. 247,717; published May 1, 1928. Class 28.

United Drug Company, Boston, Mass. Hot-water bags or bottles and fountain-syringes. 71,700; renewed Dec. 8, 1928.

United Grape Products, Inc., Buffalo, N. Y. Grape juice. 244,661; July 24; Serial No. 263,986; published May 15, 1928. Class 45.

United States Rubber Company. (See Revere Rubber Co.)

Unjohn Company, The, Kalamazoo, Mich. Ointment. 244,649; July 24; Serial No. 263,110; published May 1, 1928. Class 6.

V & V Mfg. Products Co. (See Vanderhoof, Edward L.)

Vanadium Corporation of America, Bridgeville, Pa. Metallic oxides and salts. 244,653; July 24; Serial No. 263,237; published May 8, 1928. Class 6.

Vanadium Corporation of America, Bridgeville, Pa. Alloys. 244,654; July 24; Serial No. 263,238; published May 8, 1928. Class 14.

Vanderhoof, Edward L., doing business as V & V Mfg. Products Co., Morgan (Bay View Manor), N. J. Cleaner. 244,733; July 24; Serial No. 261,538; published May 8, 1928. Class 16.

Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Piano and stringed musical instrument wires. 244,735; July 24; Serial No. 261,294; published May 15, 1928. Class 36.

Virginia Lard and Provision Company, Incorporated, Norfolk and Portsmouth, Va. Lard substitute. 244,599; July 24; Serial No. 262,582; published May 15, 1928. Class 46.

Vogue Company, The, assignor to The Conde Nast Publications, Inc., New York, N. Y. Weekly magazine. 69,530; renewed June 26, 1928.

Wallkill Oil Company, Middletown, N. Y. Lubricating oils and greases. 244,702; July 24; Serial No. 262,191; published May 1, 1928. Class 15.

Washburn, F. B., & Co. Corporation, Brockton, Mass. Cocoanut biscuits. 71,291; renewed Nov. 17, 1928.

Washing Fluid Chemical Co., Pittsburgh, Pa. Chemical bleaching and washing fluid. 244,561; July 24; Serial No. 255,946; published Dec. 6, 1927. Class 6.

Wasilkoff, Morris, New York, N. Y. Articles of jewelry. 244,674; July 24; Serial No. 263,057; published May 8, 1928. Class 28.

Weeks, D., & Company, doing business as D. C. Leo & Co., Des Moines, Iowa. Throat tablets. 244,721; July 24; Serial No. 261,662; published May 8, 1928. Class 6.

West Coast Kalsomine Co., Berkeley, Calif. Paint, stucco paint, etc. 244,757; July 24; Serial No. 262,193; published May 15, 1928. Class 16.

Western Auto Supply Agency of Los Angeles, Los Angeles, Calif. Golf clubs and balls. 244,726; July 24; Serial No. 262,138; published May 8, 1928. Class 22.

Western Grocer Company, Marshalltown, Iowa. Table salt, iodized salt, bicarbonate of soda. 244,617; July 24; Serial No. 260,864; published May 8, 1928; Class 6.

Weymac Manufacturing Corp., New York, N. Y. Dry, paste, and ready-mixed paints, paint enamels, and varnishes. 244,742; July 24; Serial No. 263,060; published May 8, 1928. Class 16.

White, A. J., Limited. (See Mother Seigel's Syrup Co., The.)

Wilfred Laboratories, Inc., New York, N. Y. Toilet preparations. 244,612; July 24; Serial No. 232,109; published May 8, 1928. Class 22.

Willy, John, Chicago, Ill. Racks, cabinets, and furniture devices for use in connection with accounting devices, etc. 244,544; July 24; Serial No. 247,510; published May 15, 1928. Class 32.

Wilson-Western Sporting Goods Company, Chicago, Ill. Golf balls. 244,778; July 24; Serial No. 263,451; published May 8, 1928. Class 22.

Wisotsky, Isidore, Brooklyn, N. Y. Bread. 244,734; July 24; Serial No. 261,332; published May 8, 1928. Class 46.

Woodworth, C. B., Sons Co., The, Rochester, assignor to Woodworth, Inc., New York and Rochester, N. Y. Sachet powders and toilet soap. 31,935; renewed Sept. 6, 1928.

York Joseph W., and Jacob Sunshine, doing business as Mercrem Laboratories, New York, N. Y. Propnylactic. 244,692; July 24; Serial No. 262,280; published May 8, 1928. Class 6.

Zizelman, Etta G., New York, N. Y. Screen cabinets. 244,770; July 24; Serial No. 263,675; published May 22, 1928. Class 32.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Alderman, Fairchild Co., Rochester, N. Y. Hi-Way Henry Cross Country 'Tin Lizzy' Race. For a Game. 34,344; July 24.

American Novelty Candy Co., Brooklyn, N. Y. Lucky Lindy. For Candy. 34,345; July 24.

Benson, E. C., Chicago, Ill. Flat Wall Paint. For Flat Wall Paint. 34,346; July 24.

California Grape Growers Exchange, San Francisco, Calif. Sonoma County. For Fresh Grapes. 34,347; July 24.

Gortz, Abraham, Brooklyn, N. Y. Direct Flow Syringe. For Direct-Flow Syringes. 34,348; July 24.

Klein, Alec S., doing business as F. L. Klein Noodle Co., Chicago, Ill. Mrs. Klein's Home Made Real Egg Noodles. For Noodles. 34,349; July 24.

Midway Chemical Co., Chicago, Ill. Lemon Oil. For Furniture Polish. 34,350; July 24.

Muhs, Henry, Company, The, Passaic, N. J. Mushco. For Bacon. 34,351; July 24.

Oceanic Sales Company, The, Seattle, Wash. Oceanic. For Salmon. 34,352; July 24.

Osborne, Fred H., doing business as Osborne Drug and Chemical Co., Detroit, Mich. Osborne's Earache Remedy. For Earache Drops. 34,353; July 24.

Quaker Baking Company, The, Council Bluffs, Iowa. Peny-Savr. For Bread. 34,354; July 24.

Savage, M. W., Factories, Inc., doing business as M. W. Savage Co., Minneapolis, Minn. Savage Superior. For Shot Shells. 34,355; July 24.

Stevens, Jordan, Company, Minneapolis, Minn. Tonka. For Canned Tomatoes. 34,356; July 24.

Stevens, Jordan, Company, Minneapolis, Minn. Time O'Day. For Canned Peaches. 34,357; July 24.

Twentieth Century Manufacturing Company, Cedar Rapids, Iowa. Qwik-N-Easy Cleaner. For Cleaner. 34,358; July 24.

Utah Canning Co., The, Ogden, Utah. Temple. For Canned Tomatoes. 34,359; July 24.

Wheeling Coffee and Spice Company, Wheeling, W. Va. Delmonico. For Coffee. 34,360; July 24.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

B. V. D. Company, Inc., The, New York, N. Y. In B. V. D.' Your Every Movement Sets Up a 'Bellows Action.' For Athletic Underwear. 11,111; July 24.

Cream of Wheat Co., Minneapolis, Minn. His First Great Adventure. For Wheat Breakfast Food. 11,112; July 24.

Heinz, H. J., Company, doing business under the name of Heinz, Pittsburgh, Pa. The Finishing Touch to a Woman's Costume, Often as not, is the Very Secret of Her Charm. For Heinz 57 Varities. 11,113; July 24.

Heinz, H. J., Company, doing business under the name of Heinz, Pittsburgh, Pa. Let Your Conversation be Witty; Your Manner Gracious. For Heinz 57 Varieties. 11,114; July 24.

Heinz, H. J., Company, Pittsburgh, Pa. So Much Depends on the Sauce. For Cooked Spaghetti in Tomato Sauce with Cheese. 11,115; July 24.

Jacsobson, Philip D., doing business as Jacobson's, Philadelphia, Pa. Satisfaction with Every Transaction. For Women's Misses', and Children's Wearing Apparel. 11,116; July 24.

Marsh, Jordan, Company, Boston, Mass. This Weigh to Fashion. For Junior Misses' Apparel. 11,119; July 24.

Marsh, Jordan, Company, Boston, Mass. Meet the Gbillie. For Shoes. 11,120; July 24.

Marsh, Jordan, Company, Boston. Fifteen—All. For Junior Misses' Apparel. 11,121; July 24.

Morley, Jay T., Buffalo, N. Y. E Roofing. For Roofing Products. 11,117; July 24.

Old Ben Coal Corporation, Chicago, Ill. A Little Light on a Burning Subject. For Coal. 11,118; July 24.

Tancill, Grace, St. Louis, Mo. Grace Tancill Jersey Sweater Dress, Model XII. For Dresses. 11,122; July 24.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abel, Elinor T., doing business as The Elinor Shop, Washington, D. C. Hosiery. 266,343; July 24. Class 39.

Absolute Con-Tac-Tor Corporation, Elkhart, Ind. Electrical switches. 265,419; July 24. Class 21.

Acme Products Limited, Winnipeg, Canada, and Detroit, Mich. Medicines. 266,637; July 24. Class 6.

Addressograph Company, Chicago, Ill. Printing machines. 265,766; July 24. Class 23.

Adolphus, Kenneth B. H., Chicago, Ill. Incense. 265,132; July 24. Class 6.

Advance Machine Company, Chicago, Ill. Game apparatus. 266,571; July 24. Class 22.

Aerovane Utilities Corporation, Wilmington, Del., and New York, N. Y. Fixed direction markers. 267,400; July 24. Class 50.

Alderwood Knitting Mills, Portland, Oreg. Outer garments and knit wear. 266,344; July 24. Class 39.

Alkura Dispensary (Unincorporated). (See Thompson, Willard L.)

Allison, C. W., doing business as Allison Coffee Company, Los Angeles, Calif. Cocoa. 266,965; July 24. Class 46.

Alpena Petroleum Products. (See Woelk, W. R.)

Amera Chemical Co., Minneapolis, Minn. Tooth paste. 256,803; July 24. Class 6.

American Drug & Chemical Co., Minneapolis, Minn. Germicide, antiseptic, and deodorant powder. 266,506; July 24. Class 6.

American Fruit Growers, Inc., Los Angeles, Calif. Fresh grapes. 256,439; July 24. Class 46.

American Hair Felt Company, Chicago, Ill. Gun wadding. 268,335; July 24. Class 9.

American Hosiery Company, New Britain, Conn. Knitted and woven goods. 267,107; July 24. Class 39.

American Manganese Bronze Company, Holmesburg, Philadelphia, Pa. Cast, solid, and cored bars of bearing metals. 266,294; July 24. Class 14.

Anderson, Edwin H., New York, N. Y. Sulphur. 266,777; July 24. Class 6.

Anderson, Edwin H., New York, N. Y. Sulphur. 266,779; July 24. Class 6.

Arcade File Works, Anderson, Ind. Files and rasps. 267,401; July 24. Class 23.

Archer Rubber Company, Milford, Mass. Treated textile fabrics and textile fabrics, etc. 262,546; July 24. Class 50.

Argray Drug Co. (See Haag, Herbert L.)

Armstrong Cork Company, Pittsburgh, Pa. Linoleum, cork carpet, etc. 266,012; July 24. Class 20.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Arnold, Ochs Co., Providence, R. I. Bracelets, brooches, pins, etc. 266,638; July 24. Class 28.
Arpeako, Inc., Rochester, N. Y. Smoked pork products, smoked dried beef, bologna, etc. 258,390; July 24. Class 46.
Ashland Refining Company, Ashland, Ky. Gasoline. 266,183–4; July 24. Class 15.
Ashland Refining Company, Ashland, Ky. Gasoline. 268,132; July 24. Class 15.
Athol Manufacturing Company, Athol, Mass. Artificial leather. 266,847; July 24. Class 50.
Aunt Lizzie's Glass Cleaner Co. (See Dade, Clarence S.)
Auto Strop Safety Razor Company, Inc., New York, N. Y. Safety razors. 267,182; July 24. Class 23.
Autostat Limited, London, England. Thermostatically-operated parts of machines. 262,146; July 24. Class 23.
Avo Manhattan Spice Co. Inc., Jersey City, N. J. Spice mixture. 254,567; July 24. Class 46.
Bacmo-Postman Co., Inc., New York, N. Y. Leather gloves. 266,509; July 24. Class 39.
Bailey, Lansing B., Lodi, Calif. Fresh citrus fruits, fresh deciduous fruits, vegetables, etc. 252,182; July 24. Class 46.
Barbour, Perley E., doing business as Barbour Welting Company, Montello Station, Brockton, Mass. Welting for boots and shoes. 267,334; July 24. Class 39.
Barker, A. E., & Co. of California, Los Angeles, Calif. Fresh vegetables, grapes, peaches, and cantaloupes. 256,897; July 24. Class 46.
Bar-Stone Oil Company, Chippewa Falls, Wis. Gasoline and other fuel oils and lubricating oils and greases. 266,908; July 24. Class 15.
Batavia Garment Corporation, Batavia, N. Y. Play suits, children's wash suits, and overalls. 265,773; July 24. Class 39.
Bauer, Philipp, Co. Inc., New York, N. Y. Chemicals. 264,603; July 24. Class 6.
Beacon Battery Co. (See Zimmerman, Charles.)
Beacon Oil Company (Inc.), Everett, Mass. Motor-lubricating oils. 265,087; July 24. Class 15.
Bee Jay Products Co., Inc., Long Island City, N. Y. Stringed musical instruments and parts. 255,836; July 24. Class 36.
Beggs, C. W., Sons & Co., Chicago, Ill. Cosmetics. 254,343; July 24. Class 6.
Bellocchio, John, New York, N. Y. Extension tables. 266,911; July 24. Class 32.
Berger Hosiery Company, Inc., Philadelphia, Pa. Hosiery. 266,969; July 24. Class 39.
Berger Manufacturing Company, The, Canton, Ohio. Expanded-metal lath. 265,612; July 24. Class 12.
Berman, Meyer, doing business as M. Berman & Son, New York, N. Y. Trousers. 265,941; July 24. Class 39.
Berne Mfg. Co., Berne, Ind. Men's work clothing, children's suits, etc. 264,066; July 24. Class 39.
Best & Co., Inc., New York, N. Y. Middies, reefers, hats, etc. 265,882; July 24. Class 39.
Blask, Maxwell A., doing business as Personal Stationery Co., San Francisco, Calif. Playing cards. 265,776; July 24. Class 22.
Blue Ridge Glass Corporation, Kingsport, Tenn. Flat glass. 267,227; July 24. Class 32.
Blume, Marcel, Paris, France. Rouge, lip sticks, face powder, etc. 264,960; July 24. Class 6.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 268,141; July 24. Class 42.
Bockhold, Anthony J., doing business as M. O. Chemical Co., Oregon City, Oreg. Cough drops. 267,231; July 24. Class 6.
Borgfeldt, Geo., & Co., New York, N. Y. Dolls. 260,795; July 24. Class 22.
Braeburn of Rochester, Inc., Rochester, N. Y. Coats, overcoats, topcoats, and tuxedos. 252,081; July 24. Class 39.
Brite Floor Products Co. (See Yorburg, David M.)
British Drug Houses, Limited, The, London, England. Medicated malt product. 266,971; July 24. Class 6.
Bronston Bros. and Co., Inc., New York, N. Y. Straw, panama, and felt hats. 267,032; July 24. Class 39.
Brooks, Berleigh, New York, N. Y. Cameras. 267,632; July 24. Class 26.
Brothers Corporation, New York, N. Y. Prepared medicine. 262,693; July 24. Class 6.
Brown Company, Portland, Me., and Belle Glade, Fla. Fresh potatoes. 250,222; July 24. Class 46.
Burnand & Company, Los Angeles, Calif., and Nogales, Ariz. Fresh vegetables, fruits, etc. 266,789; July 24. Class 46.
Bush, W. J., and Company, Limited, London, England. Syrups, essences, flavorings, etc. 267,349; July 24. Class 45.
Busse, Frank A., Co., Inc., New York and Brooklyn, N. Y. Furniture and motor-car polishes. 266,081; July 24. Class 16.
Butterfield, Fred, & Co., Inc., New York, N. Y. Buttons, braids, tapes, and dress shields. 264,285; July 24. Class 40.
C. H. S. Garter Company. (See Suckel, Charles H.)
Caplano Timber Co., Ltd., North Vancouver, British Columbia, Canada. Sawmill products. 264,079; July 24. Class 12.
Carson Pirie Scott & Co., Chicago, Ill. Hosiery. 267,405; July 24. Class 39.
Central Coal and Supply Company. (See Jennings, W. M.)
Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics. 268,078; July 24. Class 42.
Chinchiolo Bros. & Co., Stockton, Calif. Fresh deciduous fruits. 255,963; July 24. Class 46.
Cities Service Oil Company, Cleveland, Ohio. Gasoline. 265,952; July 24. Class 15.
Clover Coal Company, Inc., Philadelphia, Pa. Coal. 245,894; July 24. Class 1.
Cohen, Montague D., assignor to A. Schadow, New York, N. Y. Shoetrees. 266,022; July 24. Class 50.
Colgate & Company, Jersey City, N. J. Soap. 267,241; July 24. Class 4.
Columbus Show Case Co., The, Columbus, Ohio. Store furniture. 257,050; July 24. Class 32.
Common Sense Mfg. Co. (See Shield, Henry.)
Continental Baking Company, Wilmington, Del., and New York, N. Y. Cake. 250,679; July 24. Class 46.
Continental Baking Company, Wilmington, Del., and New York, N. Y. Cake. 250,681; July 24. Class 46.
Cooper Laboratories, Inc., The, Dayton, Ohio. Medicinal tonic. 267,757; July 24. Class 6.
Coraza Cigar Company, The, Philadelphia, Pa. Cigars. 267,887; July 24. Class 17.
Corbett & Bertolone, Inc., New York, N. Y. Jewelry. 267,185; July 24. Class 28.
Cranadine Company, The, Hammonton, N. J. Beverages and syrups for making the same. 266,915–16; July 24. Class 45.
Dade, Clarence S., doing business as Aunt Lizzie's Glass Cleaner Co., Jamaica Plain, Mass. Cleaner for glass, windows, etc. 267,540; July 24. Class 4.
Davies, Rose & Co., Ltd., Boston, Mass. Radiopaque, diagnostic preparation. 266,853; July 24. Class 6.
Deakides, Nicholas, Athens, Ga. Beverages. 267,702; July 24. Class 45.
Decrow Automotive Specialties, Inc., Lockport, N. Y. Lubricating devices. 267,247; July 24. Class 23.
De L'Opera Fabrics Corporation, New York, N. Y. Chiffon. 260,217; July 24. Class 42.
De L'Opera Fabrics Corporation, New York, N. Y. Silk chiffon in the piece. 265,368; July 24. Class 42.
Deutsche Huragan Gesellschaft m. b. H., Berlin, Germany. Grinding and crushing machines, etc. 259,712; July 24. Class 23.
Diaz, Felix A., doing business as Laboratoires Filarysine, Santurce, P. R. Pharmaceutical preparation. 264,223; July 24. Class 6.
Dixictor Company, The. (See Thorndike, Herbert A.)
Dunlap, Ethelbert H., doing business as Dunlap Medicine Company, Memphis, Tenn. Medicine. 249,516; July 24. Class 6.
Earle, Marie, Inc., New York, N. Y. Soaps. 267,068; July 24. Class 4.
Eclipse Timer Mfg. Co., Milwaukee, Wis. Spark timers. 247,419; July 24. Class 21.
Eisen, William M., Company, Inc., The, New York, N. Y. Elastic stockings. 266,364; July 24. Class 44.
Ekelman-Whittier Co., Inc., Yakima, Wash. Irish potatoes. 260,631; July 24. Class 46.
Elgin Chocolate Products Co. Inc., Elgin, Ill. Candy. 267,888; July 24. Class 46.
Elfie, Inc., New York, N. Y. Clothing. 240,812; July 24. Class 39.
Elinor Shop, The. (See Abel, Elinor T.)
Farastan Company, The, Ardmore, Pa. Preparation used in the treatment of rheumatism, etc. 267,355; July 24. Class 6.
Fields, Hilliard L., doing business as Israel Medicine Company, Hammond, Ind., and Detroit, Mich. Body tonics. 223,027; July 24. Class 6.
Filice & Perrelli Canning Company, Inc., Gilroy, Calif. Canned fruits and vegetables. 266,803; July 24. Class 46.
Firth-Sterling Steel Company, McKeesport, Pa. Alloys or cutting metal. 267,356–7; July 24. Class 14.
Fischer, John R., doing business as Pacific Macaroni Co., Los Angeles, Calif. Macaroni, spaghetti, and noodles. 259,951; July 24. Class 46.
Flintkote Company, The, Boston, Mass. Asphaltic composition roofing shingles. 267,563–4; July 24. Class 12.
Flintkote Company, The, Boston, Mass. Asphaltic composition roofing shingles. 267,569; July 24. Class 12.
Flintkote Company, The, Boston, Mass. Asphaltic composition roofing shingles. 267,703; July 24. Class 12.
Foam-Olio Company. (See Monaco, Vincent.)
Frederick, Mrs. Marguerite, doing business as Velvo Laboratories, Grand Rapids, Mich. Ointment. 263,759; July 24. Class 6.
Freydberg Brothers, Incorporated, New York, N. Y. Weather strips of flexible material. 267,372; July 24. Class 12.
Friedman & Friedman, Brooklyn, N. Y. Sleeping garments. 265,871; July 24. Class 39.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Fruit Distributors Co. of California. (See Williams, Prentice W.)
Funk, Julius H., Company, Atlanta, Ga. Cloth caps. 266,083; July 24. Class 39.
Gamadin Laboratories, Inc., Philadelphia, Pa. Preparation for rheumatism, etc. 267,358; July 24. Class 6.
Gas Grain Treater Co., Portland, Oreg. Liquid fuel. 258,523; July 24. Class 6.
Gibsonburg Lime Products Company, The, Gibsonburg, Ohio. Finishing lime. 266,526; July 24. Class 12.
Gibsonburg Lime Products Company, The, Gibsonburg, Ohio. Mason's lime. 266,527; July 24. Class 12.
Gimbel Brothers, Inc., New York, N. Y.; Philadelphia, Pa.; Milwaukee, Wis.; and Pittsburgh, Pa. Dresses. 267,302; July 24. Class 39.
Gladke, Jerome J., doing business as The Painalac Co., Elmira N. Y. External preparation. 261,362; July 24. Class 6.
Goldstein, Israel O., doing business as Goldstein Laboratories, Philadelphia, Pa. Hair tonic. 267,574; July 24. Class 6.
Good Roads Company, Inc., Upper Darby, Pa. Cold patch and bituminous material. 265,432; July 24. Class 12.
Gordon Bros. Cap Co., Inc., Chicago, Ill. Caps and hats. 266,243; July 24. Class 39.
Graff Company, Inc., The, New York, N. Y. Men's suits, topcoats, and overcoats. 267,304; July 24. Class 39.
Great Lakes Varnish Works, Inc., Chicago, Ill. Paint enamels and varnishes. 265,537; July 24. Class 16.
Greene-Babcock Co., The, assignor to The Grocers-Producers Company of Cleveland, Ohio, Cleveland, Ohio. Butter, oleomargarine, eggs, etc. 252,100; July 24. Class 46.
Grocers-Producers Company, The. (See Greene-Babcock Co., The.)
Guillevic, Georges L., Paris, France. Preparation used in the treatment of neuralgia and as a febrifuge. 267,575; July 24. Class 6.
Gun-Fil Corporation, Philadelphia, Pa. Lubricating oils and greases. 261,959; July 24. Class 15.
H. and S. Products Co. (See Horgan, James P.)
Haag, Herbert L., doing business as Argray Drug Co., Indianapolis, Ind. Tablets. 260,999; July 24. Class 6.
Hanna Manufacturing Company, The, Athens, Ga. Baseball bats. 267,841; July 24. Class 22.
Hansen, O. C., Mfg. Co., Milwaukee, Wis. Men's unlined leather street gloves. 264,682; July 24. Class 39.
Harris, William P., doing business as Harris Drug Co., Athens, Ga. Facial and skin creams, hairdressing preparations, etc. 256,869; July 24. Class 6.
Henckels, J. A., Solingen, Germany. Knives, scissors, shears, etc. 263,003; July 24. Class 23.
Hercules Products Company, St. Joseph, Mich. Automobile rim tools. 267,194–5; July 24. Class 23.
Herron, James H., Company, Cleveland, Ohio. Electrical industrial furnaces. 266,029; July 24. Class 21.
Hillerich & Bradsby Co., Louisville, Ky. Baseball bats. 267,577; July 24. Class 22.
Hilow Manufacturing Company, Inc., Wichita Falls, Tex. Ladders. 266,994; July 24. Class 50.
Hoffman, Theodore, New York, N. Y. Perfumes, toilet waters, bleach cream, etc. 264,683; July 24. Class 6.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. 268,222; July 24. Class 42.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. 268,224–5; July 24. Class 42.
Hope Knitting Co., Cohoes, N. Y. Men's and boys' knitted sport coats and sweaters, etc. 266,426; July 24. Class 39.
Horgan, James P., doing business as H. and S. Products Co., Manchester, N. H. Preparation for treating pains. 266,539; July 24. Class 6.
Huebschman, Hyman, doing business as Ritz Chemical Company, Brooklyn, N. Y. Russian mineral oil for medicinal use. 262,852; July 24. Class 6.
Hurowitz & Erdrich, New York, N. Y. Ladies' cloaks. 248,411; July 24. Class 39.
Hygeia Nursing Bottle Company, Inc., Buffalo, N. Y. Baby or nursing bottles. 266,376; July 24. Class 44.
Hygrolit Incorporated, Kearny, N. J. Apparatus for adding moisture to textile fibres and other raw materials. 266,541; July 24. Class 23.
Hyland, Richard C., doing business as Hyland Bag Company, San Francisco, Calif. Bags. 266,170; July 24. Class 2.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Medicinal gold preparation. 258,222; July 24. Class 6.
Insect Electrocutor Company, Spokane, Wash. Electrical insect traps or electrical exterminators. 267,124; July 24. Class 21.
International Fibre Company. (See Whited, Orlo O.)
Interwoven Stocking Company, New Brunswick, N. J. Socks or half hose. 263,155; July 24. Class 39.
Israel Medicine Company. (See Fields, Hilliard L.)
Italian Food Products Company, Inc., Long Beach, Calif. Canned fish. 267,962; July 24. Class 46.
Jackson, Wm. H., Company, New York, N. Y. Mantel pieces. 264,808; July 24. Class 12.

James Manufacturing Company, Fort Atkinson, Wis. Enamel and oil paint. 267,049; July 24. Class 16.
James Manufacturing Company, Fort Atkinson, Wis. Plans and specifications for farm buildings. 267,051; July 24. Class 38.
James Manufacturing Company, Fort Atkinson, Wis. Milk stools. 267,055; July 24. Class 32.
Janszen Company, The, Cincinnati, Ohio. Shoe laces. 267,773; July 24. Class 40.
Jennings, W. N., doing business as Central Coal and Supply Company, Moberly, Mo. Coal. 267,198; July 24. Class 1.
Johnson, James T., jr., doing business as Sci-En-Tex Industries, Scranton, Pa. Union suits, undershirts, and drawers. 267,361; July 24. Class 39.
Johnson, S. C., & Son, Racine, Wis. Lacquers. 266,378; July 24. Class 16.
Johnston, C. G., & Sons, Clearfield, Pa. Cookies. 266,324; July 24. Class 46.
Jordan, William M., Birmingham, Ala. Artificial bait. 266,379–80; July 24. Class 22.
Junge Baking Company, Joplin, Mo. Bread. 268,042; July 24. Class 46.
Karlin Laboratories, Inc., New York, N. Y. Toilet preparations. 259,807; July 24. Class 6.
Kay-Tee Products Co., Cleveland, Ohio. Fluids for filling cigar and cigarette lighters. 263,019; July 24. Class 6.
Kent & Company, Indianola, Iowa. Pig meal, poultry feeds, and dairy feeds. 263,760; July 24. Class 46.
Kirby Hats, Inc., New York, N. Y. Hats and caps. 267,426; July 24. Class 39.
Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 267,199–200; July 24. Class 40.
Kokomo Stamped Metal Co., Kokomo, Ind. Roller skates. 259,412; July 24. Class 22.
Kuehn, Norman L., doing business as N. L. Kuehn Company, Milwaukee, Wis. Hose. 267,130; July 24. Class 35.
Kumamoto, Miyakichi, doing business as Kumamoto Fish Co., Seattle, Wash. Canned fish. 233,382; July 24. Class 46.
Laboratories Filarysine. (See Diaz, Felix A.)
Lactona Company, The, Chicago, Ill. Tooth paste. 267,429; July 24. Class 6.
La Maroquinerie Nationale, Soc. Ame., Brussels, Belgium. Leather, chamois leather, and skins. 259,498; July 24. Class 1.
Lammertz, Leo, Aix-la-Chapelle, Germany. Sewing-machine needles. 261,578; July 24. Class 23.
Landau, Henry M., Boston, Mass. Laxative. 267,591; July 24. Class 6.
Larsen, Martin C., Los Angeles, Calif. Educational numerical puzzles. 263,410; July 24. Class 22.
La Salle Medicine Company, Los Angeles, Calif. Diuretic and stimulant for the kidneys. 267,592; July 24. Class 6.
Laub, Leon C., New York, N. Y. Plates, candy boxes, boudoir boxes, etc. 265,971; July 24. Class 2.
Lavino, E. J. and Company, Philadelphia, Pa. Chrome ore. 266,635; July 24. Class 1.
Leary, J. Frederick, Philadelphia, Pa. Flowers. 264,791; July 24. Class 1.
Lee, H. D., Mercantile Company, The, Kansas City, Mo. Overalls and one-piece work and play suits. 266,865; July 24. Class 39.
Les Etablissements Poulenc Freres, Paris, France. Chlorhydrate of metnamino-stovaine. 267,066; July 24. Class 1.
Lester & Wasley Co., Inc., Norwich, Conn. Beckling and beveling machines, paper-drinking-cup and adhesive-applying machines. 267,001; July 24. Class 23.
Lippman, Saul R., & Bro., Inc., New York, N. Y. Work shirts and pajamas. 267,430; July 24. Class 39.
Liverogen Company, Cincinnati, Ohio. Tablets. 266,737; July 24. Class 6.
Logan-Long Company, The, Chicago, Ill. Prepared roll roofing. 263,275; July 24. Class 12.
Long Island Yarn Corporation, New York and Long Island City, N. Y. Cotton and rayon yarns. 268,287; July 24. Class 43.
Loose-Wiles Biscuit Company, Long Island City, N. Y. Cakes and cookies. 267,844; July 24. Class 46.
Lowe, Alfred J., Los Angeles, Calif. Coats and dresses. 267,307; July 24. Class 39.
Lowy, Louis, New York, N. Y. Shoes. 265,110; July 24. Class 39.
Lucas Ranching Company, Cucamonga, Calif. Fresh deciduous and citrus fruits. 265,551; July 24. Class 46.
Lummis & Company, Philadelphia, Pa. Pop corn. 266,822; July 24. Class 46.
M. O. Chemical Co. (See Bockhold, Anthony J.)
Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. 268,288; July 24. Class 42.
Manhattan Rubber Mfg. Co., The, Passaic, N. J. Belts, hose, and packing. 253,850; July 24. Class 35.
Mann, George E., doing business as George E. Mann & Co., El Centro, Calif. Fresh lettuce. 256,956; July 24. Class 46.
Marshall Field & Company, Chicago, Ill. Needles for hand use. 266,366; July 24. Class 40.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Mason, Erskine C., doing business as Mason's Pharmacy, Phoenix, Ariz. Oil for use as a tonic and mild laxative. 266,088; July 24. Class 6.

Mauck, Leo W., doing business as Multicreme Company, Lyons, Kans. Cold cream, ointment, tooth paste, etc. 261,581; July 24. Class 39.

May Department Stores Company, The, St. Louis, Mo. Belts. 267,138; July 24. Class 39.

McComb, James B., New York, N. Y. Powder to be dissolved in water for use in cleaning, etc. 267,898; July 24. Class 4.

McGreevey, Werring & Howell, Inc., New York, N. Y. Ladies' dresses, hats, coats, suits. 267,370; July 24. Class 39.

McKee, James, doing business as The O-Three Laboratory, Media, Pa. Medicated oils and ointments. 260,455; July 24. Class 6.

McKinney Manufacturing Company, Pittsburgh, Pa. Hinges. 267,309; July 24. Class 13.

McWilliams, Viola, Chicago, Ill. Drapes, pillow covers, table covers, etc. 264,317; July 24. Class 42.

Melde, G. (See Schnitter, Curt.)

Mentholatum Company, The, Wichita, Kans., and Buffalo, N. Y. Salve. 266,386; July 24. Class 6.

Merrimack Manufacturing Company, Lowell, Mass. Cotton piece goods. 256,787; July 24. Class 42.

Metro Chocolate Co., Inc., The, Brooklyn, N. Y. Lollypops. 265,393; July 24. Class 46.

Meyer, Wm., Company, The, Chicago, Ill. Electric hair dryers. 265,490; July 24. Class 44.

Midland Coal Sales Company, Cincinnati, Ohio. Coal. 267,005; July 24. Class 1.

Miles Bros. & Co. Inc., New York, N. Y. Shaving brushes. 265,058; July 24. Class 29.

Miller, Juanita, Oakland, Calif. Candy. 250,186; July 24. Class 46.

Mirgeler, Robert W., doing business as The R. W. Mirgeler Co., Rockford, Ill. Pharmaceutical preparation. 266,211; July 24. Class 6.

Missouri Portland Cement Company, St. Louis, Mo. Portland cement. 265,443; July 24. Class 12.

Missouri Portland Cement Company, St. Louis, Mo. Building cement. 266,387; July 24. Class 12.

Mitex Products Co., Portland, Oreg. Medicinal relief. 264,694; July 24. Class 6.

Mohawk Merchandise Company, The, New York, N. Y. Combs. 267,071; July 24. Class 40.

Monaco, Vincent, doing business as Foam-Olio Company, Jersey City, N. J. Shampoo. 266,434; July 24. Class 6.

Monheim, Leonard, Aachen-Susterfeld, Germany. Cocoa oats and cocoa acorn, chocolate, etc. 240,616–17; July 24. Class 46.

Montague Rod and Reel Company, Montague City, Mass. Fishing rods. 260,834–8; July 24. Class 22.

Montgomery Ward & Co. Incorporated, Chicago, Ill. Canned vegetables, fruits, soups, roasted coffee, etc. 258,644; July 24. Class 46.

Morrish, Edward, St. Louis, Mo. Preparation for the treatment of infections of the sinuses of the nose and throat. 267,438; July 24. Class 6.

Multicreme Company. (See Mauck, Leo W.)

Murphy, Raymond O., doing business as The Stillwater Remedy Co., Stillwater, Minn. Stomach tonic, indigestion remedy, etc. 259,013; July 24. Class 6.

N. V. Nederlandsche Kunstzijdefabriek, Arnhem, Netherlands. Ribbons, materials, knitted goods, etc. 254,503; July 24. Class 42.

National Ice Cream Company, Louisville, Ky. Ice cream. 266,944; July 24. Class 46.

National Mayonnaise Machine Co., Inc., New York, N. Y. Emulsifying apparatus and parts thereof. 267,662; July 24. Class 23.

Navarro, Hijo de Juan J., Espinardo-Murcia, Spain, and New York, N. Y. Paprika. 249,477; July 24. Class 46.

New York Canners, Inc., Rochester, N. Y. Canned fruits and canned vegetables. 251,071; July 24. Class 46.

New York Canners, Inc., Rochester, N. Y. Canned fruits, canned vegetables, etc. 251,236; July 24. Class 46.

Northland Ski Manufacturing Co., St. Paul, Minn. Skis' toboggans, hockey sticks, golf clubs, etc. 211,865; July 24. Class 22.

Norwich Pharmacal Company, The, Norwich, N. Y. Alteratives, analgesics, anaphrodisiacs, etc. 267,785; July 24. Class 6.

Oberman, D. M., Mfg. Co., Jefferson City, Mo. Overalls, overall jackets, etc. 265,800; July 24. Class 39.

Ohio Varnish Company, The, Cleveland, Ohio. House paint, colored enamels, lacquers, etc. 266,553; July 24. Class 16.

Oneida Community, Limited Oneida, N. Y. Silver flatware. 257,023; July 24. Class 28.

Ono Trading Co. (See Tatsukawa, Naosaburo.)

Orchestraphone Company, Chicago, Ill. Electrical reproducing and amplifying apparatus for phonograph records. 262,252; July 24. Class 21.

Orchestraphone Company, Chicago, Ill. Phonographs. 262,253; July 24. Class 36.

O-Three Laboratory, The. (See McKee, James.)

P-K Manufacturing Company, Kansas City, Mo. Overalls, jackets, etc. 265,923; July 24. Class 39.

Pacific American Fisheries, Chicago, Ill., and South Bellingham, Wash. Canned salmon. 267,664–5; July 24. Class 46.

Pacific Macaroni Co. (See Fischer, John R.)

Pacific Trading Co., Inc., San Francisco, Calif. Canned fish. 267,988; July 24. Class 46.

Painalac Co., The. (See Gladke, Jerome J.)

Palmolive-Peet Company, The, Chicago, Ill. Soap. 267,505; July 24. Class 4.

Parke, Davis & Company, Detroit, Mich. Astringent. 266,681; July 24. Class 6.

Parke, Davis & Company, Detroit, Mich. Surgical lubricant. 266,682; July 24. Class 6.

Pendleton Woolen Mills, Portland, Oreg. Men's and boys' clothing. 261,834; July 24. Class 39.

Peninsular Paint and Varnish Company, Detroit, Mich. Paint enamels, lacquer enamels, lacquers, etc. 264,190; July 24. Class 16.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Threads. 268,056–7; July 24. Class 43.

Perfect Foods, Inc., Lansdale, Pa. Pretzels. 266,828; July 24. Class 46.

Personal Stationery Co. (See Blask, Maxwell A.)

Petit, Alfred, Juan-Les-Pins, France. Dental products. 264,326; July 24. Class 6.

Petrolcum Derivatives Company, Montclair, N. J. Toilet lotion and cleanser for the skin. 263,344–5; July 24. Class 6.

Phillips, Curtis S., San Antonio, Tex. Preparation for the treatment of pyorrhea. 266,684; July 24. Class 6.

Phono Link Co., Inc., The, New York, N. Y. Electric pick-up device. 265,496; July 24. Class 21.

Pierce, Michael C., New York, N. Y. Liquid for making cement waterproof. 266,330; July 24. Class 12.

Pike, David H., doing business as Salutary Products Company, Council Bluffs, Iowa. Drugs and medicines for hogs and stock. 262,818; July 24. Class 6.

Pittsburgh Coal Company, Pittsburgh, Pa. Coal. 266,266; July 24. Class 1.

Playgolf, Inc., Cleveland, Ohio. Golf bags. 266,095; July 24. Class 22.

Pohlson, Carl V., Pawtucket, R. I. Combustible package containing a chemical. 266,479; July 24. Class 6.

Posner, Dr. A., Shoes, Inc., New York, N. Y. Shoes. 267,386; July 24. Class 39.

Potter, P. H., & Sons, Inc., New York, N. Y. Solution for the treatment of rheumatism and other blood diseases. 267,855; July 24. Class 6.

Powell, George R., Philadelphia, Pa. Combination accelerator and brake pedal for automobiles. 248,252; July 24. Class 23.

Pyro Importing Company, Seattle, Wash. Firecrackers. 267,857; July 24. Class 9.

R. F. Corp., The, Boston, Mass. Clinical thermometers. 266,883; July 24. Class 44.

Rainized Process Ltd., New York, N. Y. Waterproofing compound. 267,079; July 24. Class 6.

Ravenswood Office Specialties Company, Chicago, Ill. Stationery files. 258,041; July 24. Class 32.

Ritz Chemical Company. (See Huebschman, Hyman.)

Riverside Manufacturing Co., St. Louis, Mo. Soap compounds. 267,276; July 24. Class 4.

Rixson, Oscar C., Company, The, Chicago, Ill. Door and casement hinges, pivots, holders, etc. 265,856; July 24. Class 13.

Roddenbery Brothers, Cairo, Ga. Combination syrup. 265,295; July 24. Class 46.

Ross, Sydney, Co., The, Newark, N. J. Analgesic and counterirritant. 262,778; July 24. Class 6.

Russell, Clabe, Fort Worth, Tex. Preparation for dandruff, falling hair, and dry scalp. 259,646; July 24. Class 6.

Sacco, Angelina, New Orleans, La. Preparation for the treatment of skin diseases. 267,670; July 24. Class 6.

Safety Glass and Xetal Products, Limited, Stapleford, England. Belting, nonmetallic tires, etc. 249,928; July 24. Class 35.

St. Louis Window Display Fixture Company, St. Louis, Mo. Window display fixtures. 261,151; July 24. Class 32.

Saltine Company, Kansas City, Mo. Tooth powder. 265,810; July 24. Class 6.

Salutary Products Company. (See Pike, David H.)

Sanford, Stephen, & Sons Inc., Amsterdam, N. Y. Axminster carpets and rugs. 267,872; July 24. Class 42.

Santurello, Peter, doing business as Santurello Beauty Parlor, Columbus, Ohio. Hairdressing preparation. 267,464; July 24. Class 6.

Schadow, Adolph, New York, N. Y. (See Cohen, Montague D.)

Schnitter, Curt, doing business as G. Melde, Cottbus, Germany. Cordiale, whiskey, brandy, gin, and liquors. 257,591; July 24. Class 49.

Schumacher Wall Board Corporation, Los Angeles, Calif. Construction material. 265,070; July 24. Class 12.

Sci-En-Tex Industries. (See Johnson, James T., jr.)

Sears, Roebuck and Co., Chicago, Ill. Copper-tub electric clothes-washing machines. 266,626; July 24. Class 24.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Seeman Brothers, Inc., New York, N. Y. Tea balls. 266,336; July 24. Class 46.

Sexton Manufacturing Company, Fairfield, Ill. Men's and children's underwear and night wear. 263,432; July 24. Class 39.

Sexton Manufacturing Company, Fairfield, Ill. Children's underwear and night wear. 263,728; July 24. Class 39.

Sharp & Dohme, Incorporated, Baltimore, Md. Tonic. 266,405; July 24. Class 6.

Shaw, Arthur, St. Paul, Minn. Corn sugar. 265,697; July 24. Class 46.

Shield, Henry, doing business as Common Sense Mfg. Co., St. Louis, Mo. Auto and furniture polish. 265,123; July 24. Class 16.

Shore Instrument & Mfg. Co., The, Jamaica, N. Y. Apparatus for measuring the hardness of materials. 255,422; July 24. Class 26.

Sigma Sigma Sigma, Woodstock, Va. Fraternity badges, lapel buttons, etc. 249,241; July 24. Class 28.

Simson & Frey, Inc., New York, N. Y. Reeds for clarinets, oboes, etc. 266,892; July 24. Class 36.

Smith, D. B., & Company, Inc., Utica, N. Y. Sprayers, sprayer pumps, etc. 266,833; July 24. Class 23.

Smith, George C., New York, N. Y. Syrup. 267,864; July 24. Class 45.

Societe Anonyme des Dentifrices du Docteur Pierre, Nanterre, France. Perfume, toilet water, face powder, etc. 267,612; July 24. Class 6.

South Bend Watch Co., South Bend, Ind. Watches and watchcases. 266,487; July 24. Class 27.

South Bend Watch Co., South Bend, Ind. Watches and watchcases. 266,489–92; July 24. Class 27.

Southern Tire and Rubber Company, Augusta, Ga. Auto tires and tubes. 267,321; July 24. Class 35.

Southwestern Milling Company, Inc., The, New York, N. Y. Flour and wheat flour. 263,979; July 24. Class 46.

Speeday Manufacturing Company, The, Cleveland, Ohio. Household washing machines and parts thereof. 257,515; July 24. Class 24.

Sperry Flour Co., San Francisco, Calif. Cereal breakfast foods. 262,131; July 24. Class 46.

Squibb, E. R., & Sons, New York, N. Y. Toothbrush. 268,177; July 24. Class 29.

Staiger & Sons, New York, N. Y. Jewelry. 260,147; July 24. Class 28.

Stanley Works, The, New Britain, Conn. Hinges, screen hangers, hasps, etc. 264,483; July 24. Class 13.

Stanley Works, The, New Britain, Conn. Portable electric drills. 266,835; July 24. Class 21.

Stern Brothers, New York, N. Y. Ladies' collars, ladies' scarves, dresses, etc. 261,776; July 24. Class 39.

Stewart, William D., doing business as Visionola Company, St. Petersburg, Fla. Radio sets and the like. 265,347; July 24. Class 21.

Stillwater Remedy Co., The. (See Murphy, Raymond O.)

Sturgis, Julie, New York, N. Y. Ladies' gowns, wraps, coats, etc. 265,862; July 24. Class 39.

Suckel, Charles H., doing business as C. H. S. Garter Company, New York, N. Y. Garters. 265,995; July 24. Class 39.

Sunical Packing Company, San Francisco, Calif. Canned and dried fruits, dried vegetables, etc. 249,874; July 24. Class 46.

Sweet, Alfred J., Co., Auburn, Me. Leather shoes. 265,863; July 24. Class 39.

Swift and Company, Chicago, Ill. Prepared food. 266,631; July 24. Class 46.

Tatsukawa, Naosaburo, doing business as Ono Trading Co., San Francisco, Calif. Canned crab meat. 266,498; July 24. Class 46.

Tatsukawa, Naosaburo, doing business as Ono Trading Co., San Francisco, Calif. Tuna fish. 266,499; July 24. Class 46.

Temmler-Werke Vereinigte Chemische Fabriken Hermann Temmler, Berlin-Johannisthal, Germany. Medical preparation. 259,976; July 24. Class 6.

Texas City Canneries, Texas City, Tex. Canned and preserved figs. 256,797; July 24. Class 46.

Thompson, Willard L., doing business as Alkura Dispensary, (Unincorporated), Madison, Wis. Alkalizing medical preparations. 266,898; July 24. Class 6.

Thorndike, Herbert A., doing business as The Dixietoy Company, Orlando, Fla. Chairs, tables, and seats. 260,036; July 24. Class 32.

Tiffany & Company, New York, N. Y. Cleaning and polishing material. 267,099; July 24. Class 4.

Tiffany & Company, New York, N. Y. Medals of base metals and art bronzes, etc. 267,161; July 24. Class 50.

Toledo Scale Company, Toledo, Ohio. Weighing scales, counting machines, dynamometers, etc. 266,056; July 24. Class 26.

Torrington Specialty Company, Inc., Torrington, Conn. Collapsible chairs, benches, and tables. 267,520; July 24. Class 32.

Trohn, Lewis C., New York, N. Y. Preparation for treating fabrics, particularly hosiery. 267,522; July 24. Class 6.

Tyson Shirt Co., Norristown, Pa. Shirts, pajamas, nightshirts, etc. 266,334; July 24. Class 39.

United States Lime Products Corporation, San Francisco, Calif. Hydrated lime. 266,900; July 24. Class 12.

United States Macaroni Co. Inc., Los Angeles, Calif. Macaroni. 265,925; July 24. Class 46.

United States Rubber Company, New York, N. Y. Sheet material. 265,997; July 24. Class 50.

Universal Button Fastening & Button Company, Detroit, Mich. Nonprecious-metal buttons. 263,448; July 24. Class 40.

Universal Mills, Fort Worth, Tex. Feed. 267,220; July 24. Class 46.

Van Camp Sea Food Company, Inc., Terminal Island, Calif. Canned fish, smoked fish, and preserved fish. 254,312; July 24. Class 46.

Velvo Laboratories. (See Frederick, Mrs. Marguerite.)

Ventre, Eugène, Opelousas, La. Compound syrup. 264,930; July 24. Class 46.

Vernet, Waldemar, New York, N. Y. Sponges. 263,906; July 24. Class 1.

Vex Sales Corporation, Chicago, Ill. Fertilizer-dispensing apparatus and parts thereof. 267,101; July 24. Class 23.

Viatte & Guenin, Bienne, Switzerland, and New York, N. Y. Watch movements, watchcases, watch parts, and watches. 266,568; July 24. Class 27.

Viener, Samuel, New York, N. Y. Underwear, wearing apparel, etc. 264,931; July 24. Class 39.

Vining, Augustus G., Atlanta, Ga. Prophylactic rubber articles. 265,178; July 24. Class 44.

Visionola Company. (See Stewart, William D.)

Vichek Tool Company, The, Cleveland, Ohio. Tool sets. 264,619; July 24. Class 23.

Wagner, Günther, Hanover, Germany. Adhesive paste, glue, and mucilage. 263,943; July 24. Class 5.

Wallace & Co., Brooklyn, N. Y. Chocolates and candies. 267,284; July 24. Class 46.

Wanamaker, John, Philadelphia, Philadelphia, Pa. Sanitary napkins. 268,191. July 24. Class 44.

Watson, William T., Vancouver, British Columbia, Canada. Toy vehicles. 264,398; July 24. Class 22.

Webb Belting Co., Kansas City, Mo. Belt. 265,867; July 24. Class 35.

Wesley, Edward, & Company, Cincinnati, Ohio. Haircombing liquid. 266,500; July 24. Class 6.

Western Oil & Refining Company, Los Angeles, Calif. Petroleum products. 260,301; July 24. Class 15.

White Tar Company of New Jersey, Inc., The, Kearney, N. J. Garment bags. 263,629; July 24. Class 2.

Whited, Oric O., doing business as International Fibre Company, Minneapolis, Minn. Peat. 266,845; July 24. Class 1.

Widmer's Grape Products Industry, Naples, N. Y. Grape juice. 266,161–2; July 24. Class 45.

Widmer's Grape Products Industry, Naples, N. Y. Grape juice. 266,164; July 24. Class 45.

Wiggins & Bean, Milford Square, Pa. Cigars. 264,666; July 24. Class 17.

Wilfred Laboratories, Inc., New York, N. Y. Toilet preparations. 232,108; July 24. Class 6.

Wilfred Laboratories, Inc., New York, N. Y. Toilet preparations. 232,110; July 24. Class 6.

Williams, Prentice W., doing business as Fruit Distributors Co. of California, Los Angeles, Calif. Fresh Honey Dew melons, vegetables, etc. 256,985; July 24. Class 46.

Wilson, Arthur L., Hamilton, Ontario, Canada. Leather shoes. 260,969; July 24. Class 39.

Wilson-Western Sporting Goods Company, Chicago, Ill. Baseball gloves and mitts. 265,181; July 24. Class 22.

Woelk, W. R., doing business as Alpena Petroleum Products, Alpena, Mich. Lubricating oils. 264,627; July 24. Class 15.

Woodbury Shoe Mfg. Co., Derry, N. H. Boots, shoes, and slippers. 266,005. July 24. Class 39.

Woodbury Shoe Mfg. Co., Derry, N. H. Boots, shoes, and slippers. 266,007–8; July 24. Class 39.

Wright, Leonard K., New York, N. Y. Refrigerating apparatus and parts or units thereof. 250,214; July 24. Class 31.

Yorburg, David M., doing business as Brite Floor Products Co., Brooklyn, N. Y. Polish. 265,458; July 24. Class 16.

Yvette Co., New York, N. Y. Permanent-waving machines and accessories and equipment therefor. 266,293; July 24. Class 44.

Zimmerman, Charles, doing business as Beacon Battery Co., New York, N. Y. Batteries. 265,352; July 24. Class 21

Zimmerman, Simon R., doing business as Simon R. Zimmerman Co., Savannah, Mo. General tonic. 265,079; July 24. Class 6.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Coal. M. Donnenfeld & Son, Incorporated. 244,784; July 24.
Coal. New York Coal Company. 244,783; July 24.

CLASS 2.

Boxes, storage bins, etc., Proof. Gustav Glaser Co. 244,627; July 24; Serial No. 261,109; published May 15. 1928.
Dishes, Paper. Crescent Paper Dish Co. 244,644; July 24; Serial No. 263,075; published May 15, 1928.

CLASS 4.

Cleaning fluids. Riverside Manufacturing Co. 244,518; July 24. Serial No. 259,590; published Mar. 13. 1928.
Detergent and solvent compounds. Riverside Manufacturing Co. 244,519; July 24; Serial No. 259,589; published Mar. 13. 1928.
Dressing, Leather. Edward Penton. 244,539; July 24; Serial No. 252,564; published Nov. 8. 1927.
Powder, Hand-washing. Queen City Soap Co. 244,570; July 24; Serial No. 254,150; published May 1. 1928.
Powders and toilet soap, Sachet. C. B. Woodworth Sons Co. 31,935; renewed Sept. 6. 1928.
Preparations for blacking or dressing iron surfaces. George H. Johnson. 71,381; renewed Nov. 24. 1928.
Preservative and food for all leather. J. C. Lewis. 244,583; July 24; Serial No. 242,379; published Feb. 21, 1928.
Razor strops. Simmons Hardware Company. 71,562; renewed Dec. 1. 1928.
Saponaceous shaving cream. Palmolive-Peet Company. 244,571; July 24; Serial No. 253,907; published Apr. 10. 1928.
Shaving cream, Saponaceous. Palmolive-Peet Company. 244,572; July 24; Serial No. 253,906; published Apr. 17, 1928.
Soap. Gillette Safety Razor Co. 70,758; renewed Sept. 29. 1928.
Soap and shaving cream. Dr. Brady's Soap Co. 244,569; July 24; Serial No. 254,445; published Nov. 22. 1927.
Soaps of all kinds and detergent washing powders. James Pyle & Sons. 69,573; renewed June 23. 1928.
Soaps, perfumery, and preparations for the teeth, skin, and hair, Toilet. Josh. Crosfield & Sons L't'd. 31,592; renewed May 24, 1928.

CLASS 5.

Adhesives and cements. W. Marvin. 244,751; July 24; Serial No. 262,572; published May 8, 1928.
Dextrin. Corn Products Refining Company. 71,656; renewed Dec. 8. 1928.
Glue. Peter Cooper's Glue Factory. 71,601–2; renewed Dec. 1, 1928.
Paste powder, glue, etc., Adhesive cold-water. National Flexible Glue Co. 244,803; July 24.

CLASS 6.

Antacid and digestant. S. B. Leonardi & Co. Inc. 244,683. July 24; Serial No. 262,856; published May 8, 1928.
Antiseptic and germicide. W. C. Meyer. 244,581; July 24; Serial No. 245,019; published May 8, 1928.
Bleaching water. A. E. Jacobson. 244,701; July 24; Serial 262,662; published May 8, 1928.
Ceramic materials. Titanium Alloy Manufacturing Company. 244,698; July 24; Serial No. 262,780; published May 1. 1928.
Chemical and medicinal preparation. E. Merck. 32,002–3; renewed Sept. 27, 1928.
Chemical bleaching and washing fluid. Washing Fluid Chemical Co. 244,561; July 24; Serial No. 255,946; published Dec. 6, 1927.
Chemical preparation for use in removing wall paper. E. A. Benedict. 244,697; July 24; Serial No. 262,790. published May 8, 1928.
Chemicals. Rhenania-Kunheim Verein Chemischer Fabriken A. G. 244,731; July 24; Serial No. 261,768; published May 22. 1928.
Compound used as a vulcanization accelerator in the curing of rubber articles. Rubber Service Laboratories Co. 244,695; July 24; Serial No. 262,820; published May 1. 1928.
Compounds. Aluminate Sales Corporation. 244,782; July 24; Serial No. 263,253; published May 15. 1928.
Cosmetics. M. E. Rowden. 244,640; July 24; Serial No. 261,457; published May 1, 1928.
Cough Drops. Pacific Coast Biscuit Company. 244,589; July 24; Serial No. 235,416; published Oct. 4. 1927.
Cream and shampoo, Liquid vanishing. Mibalm Company. 244,580; July 24; Serial No. 245,102; published May 8, 1928.
Cream, Face. Amorskin Corporation. 244,685; July 24; Serial No. 262,544; published May 8, 1928.
Creams, face powders, talcum powders, etc., Face. M. M. Das. 244,706; July 24; Serial No. 261,947; published May 8. 1928.
Dentifrices, nail powder, cuticle ice, deodorant, etc. H. D. Koening. 244,515; July 24; Serial No. 259,856; published May 1. 1928.
Disinfectant, antiseptic, and asepticising preparations. C. Raspe. 31,950; renewed Sept. 6. 1928.

Dyspepsia cure. E. C. De Witt & Co. 32,134; renewed Nov. 8, 1928.
Glandular extracts. Laboratories "Stella." 244,723; July 24; Serial No. 262,313; published May 15, 1928.
Hairdressing. Flomill Chemical Company. 244,506; July 24; Serial No. 260,632; published May 8, 1928.
Laxative pills. Mother Seigel's Syrup Co. 71,449; renewed Nov. 24, 1928.
Lip sticks, rouge, shampoo, and face powder. R. Resnek. 244,743; July 24; Serial No. 263,050; published May 22, 1928.
Lye, potash, and caustic soda. James Pyle & Sons. 69,515; renewed June 16, 1928.
Medicated preparation. Lambert Pharmacal Company. 244,676; July 24; Serial No. 263,020; published May 1, 1928.
Medicinal compound. L. M. Colvin. 244,672; July 24; Serial No. 263,073; published May 8, 1928.
Medicinal preparation. N. B. Bartz. 244,652; July 24; Serial No. 263,196; published May 8. 1928.
Medicinal preparation for the treatment of torpid liver, etc. Bilein Caps Co. 244,720; July 24; Serial No. 261,664; published May 1. 1928.
Medicinal tablets. Heneph Corporation. 244,696; published July 24; Serial No. 262,803; published May 1, 1928.
Medicine for malaria, chills, headache, etc. Nine-Ten Remedy Company. 244,631; July 24; Serial No. 261,643; published May 8, 1928.
Medicine for the treatment of arthritis. Smith, Kline & French Company. 244,712; July 24; Serial No. 261,656; published May 8. 1928.
Mouth wash and gargle. Pyo-Coda Laboratories, Inc. 244,732; July 24; Serial No. 261,766; published May 22, 1928.
Ointment. Upjohn Company. 244,649; July 24; Serial No. 263,110; published May 1. 1928.
Ointment and salve. H. Hague. 244,764; July 24; Serial No. 263,821; published May 15, 1928.
Ointment, Eczema. Arnold Ointment Company. 244,800; July 24.
Ointment preparation. Medi-Jell Products, Inc. 244,705–6; July 24; Serial No. 262,037–8; published May 1. 1928.
Oxides and salts, Metallic. Vanadium Corporation of America. 244,653; July 24; Serial No. 263,237; published May 8, 1928.
Pastes and powders. E. Daltroff. 244,537; July 24 Serial No. 257,530; published May 1. 1928.
Pastes and powders for beautifying and preserving the teeth, skin, and hair, etc. E. Daltroff. 244,538; July 24; Serial No. 257,529; published Feb. 28, 1928.
Pastes and powders for the teeth, skin, and hair, and perfumery. E. Daltroff. 244,528; July 24; Serial No. 258,166; published Feb. 28, 1928.
Pastes and powders for the teeth, skin, and hair, etc. E. Daltroff. 244,536; July 24; Serial No. 257,531; published Feb. 28, 1928.
Perfume, toilet water, face cream, etc. Société A Responsabilité Limitée Molyneux & Cie. 244,627; July 24; Serial 258,603; published May 8, 1928.
Perfumes and toilet waters. F. N. Lewis. 244,645; July 24; Serial No. 263,093; published May 8. 1928.
Perfumes, eau de cologne, lotions, etc. Societe Parisienne des Produits de Beaute Ganna Walska. 244,559; July 24, Serial No. 256,059; published May 8, 1928.
Perfumes, face powders, etc. De Musset, Inc. 244,684; July 24; Serial No. 262,844; published May 8, 1928.
Petroleum jelly. Geo. H. Nowland Company. 244,699; July 24; Serial No. 262,762; published May 8, 1928.
Powder and creams, Face. Colgate & Company. 244,642; July 24; Serial No. 261,240; published May 8, 1928.
Powder, bath salts, etc., Talcum. R. Hudnut. 244,651; July 24; Serial No. 263,152; published May 8, 1928.
Powders, pills tables, peris, ointments and tinctures. Pharmaceutisches Institut Ludwig Wilhelm Gans. 31,963; renewed Sept. 13, 1928.
Preparation for filling cigar and cigarette lighters. Smith Oil & Refining Company. 244,779; July 24; Serial No. 263,440; published May 15, 1928.
Preparation for the treatment of colds, grippe, etc. Sterno Corporation. 244,648; July 24; Serial No. 263,106; published May 1. 1928.
Preparation for use in treating colds. C. B. Amyx. 244,788; July 24.
Prophylactic. Joseph W. York and Jacob Sunshine. 244,692; July 24; Serial No. 262,280; published May 8, 1928.
Purgative elixir, compound. Hanrahan Pharmacal Co. Inc., 69,809; renewed July 7, 1928.
Remedies, dyspepsia. Mother Seigel's Syrup Co. 71,448; renewed Nov. 24, 1928.
Remedies, dyspepsia. Mother Seigel's Syrup Co. 71,510; renewed Dec. 1. 1928.
Remedy for constipation. Brown Manufacturing Co. 244,614; July 24; Serial No. 225868; published Mar. 2, 1926.
Remedy for diseases of the blood, etc. Chemische Fabrik Sulzbach Gesellschaft mit beachraenkter Haftung. 32,021–2; renewed Oct. 4, 1928.

Remedy for diseases of the generative organs. Arent Bros. Medical Co. 71,422; renewed Nov. 24, 1928.
Salt, iodized salt, and bicarbonate of soda, Table. Western Grocer Company. 244,617; July 24; Serial No. 260,864; published May 8, 1928.
Salts and preparations, Mineral-well. German Mineral Salt Import Company. 244,747; July 24; Serial No. 262,709; published May 22, 1928.
Salve. Albert G. Groblewski & Co. 244,547; July 24; Serial No. 250,918; published July 26, 1927.
Salve for the treatment of certain diseases. T. M. Sayman. 70,645; renewed Sept. 22, 1928.
Skin freshener and tonic. Pond's Extract Company. 244,522; July 24, Serial No. 259,419; published May 1, 1928
Starch, Laundry. National Starch Co. 71,599; renewed Dec. 1, 1928.
Tablets, Throat. D. Weeks & Company. 244,721; July 24; Serial No. 261,662; published May 8, 1928.
Toilet preparations. Wilfred Laboratories, Inc. 244,612; July 24; Serial No. 232,109; published Nov. 22. 1927.
Tooth paste and tooth wash. Pyro Chemical Company. 71,723; renewed Dec. 15. 1928.
Tooth pstes and washes. D. H. Seymour. 244,639; July 24; Serial No. 261,461; published May 8, 1928.
Unguent for skin diseases. Dr. L. C. Marquart. 32,086; renewed Oct. 25. 1928.
Vitamin concentrates. Lever Brothers, Limited. 244,668; July 24; Serial No. 262,471; published May 8, 1928.

CLASS 7.

Twine, rope, and cord. Oakdale Cotton Mills. 244,716; July 24; Serial No. 261,764; published May 15, 1928.

CLASS 8.

Ash trays, Smoker's metal. J. E. Mergott Company. 244,709; July 24; Serial No. 261,902; published May 15, 1928.

CLASS 10.

Fertilizers. Home Fertilizer Company. 244,787; July 24.
Fertilizers. M. P. Hubbard & Company. 244,786; July 24.

CLASS 12.

Cement, Portland. Teutonia Misburger Portland-Cement Werk. 31,524; renewed May 10, 1928.
Covering, Pipe and boiler. H. W. Johns-Manville Company. 71,592; renewed Dec. 1, 1928.
Waterproof material. Paramine Paint Co. 69,554; renewed June 23, 1928.

CLASS 13.

Automotive parts. King Manufacturing Corporation. 244,575; July 24; Serial No. 246,613; published May 17, 1927.
Doors, Wicket attachments for. W. P. Aull. 244,563; July 24. Serial No. 255,788; published May 15, 1928.
Enamel ware, Acid resisting. Kohler Company. 244,562; July 24; Serial No. 255,810; published May 15, 1928.
Meter fitting, Metal gas-. A. Benfield. 244,715; July 24; Serial No. 261,787; published May 15, 1928.
Pots and kettles, etc., Metal kitchen and cooking. Polar Ware Company. 244,650; July 24; Serial No. 263,423; published May 15, 1928.

CLASS 14.

Alloys. Vanadium Corporation of America. 244,654; July 24; Serial No. 263,238; published May 8, 1928.
Hardware, Automobile body. Ternstedt Manufacturing Company. 244,155; July 24; Serial No. 256,842; published May 1, 1928.
Metals and metal alloys, Nonferrous. American Smelting & Refining Company. 244,534–5; July 24; Serial Nos. 257,570–1; published Apr. 3. 1928.
Platinum and alloys of platinum. Baker & Co. Inc. 244,681; July 24; Serial No. 262,891; published May 1, 1928.
Solder, Cold. J. P. H. Barlow. 244,641; July 24; Serial No. 261,416; published May 1. 1928.
Steel in bars, billets, and shapes. Carpenter Steel Company. 244,792–5; July 24.

CLASS 15.

Gasoline. Associated Oil Company. 244,643; July 24; Serial No. 261,232; published May 1, 1928.
Gasoline. Barties-Maguire Oil Company. 244,700; July 24; Serial No. 262,691; published May 1. 1928.
Gasoline. Champlin Refining Company. 244,567; July 24; Serial No. 254,792; published May 8, 1928.
Gasoline, motor oil, and other lubricating oils and greases. Barties-Maguire Oil Company. 244,626; July 24; Serial No. 261,095; published Mar. 20, 1928.
Grease, Axle. Monarch Manufacturing Company. 71,549; renewed Dec. 1, 1928.
Kerosene, fuel oil, naphtha, and gasoline. Blue Ribbon Oil Company. 244,546; July 24; Serial No. 246,882; published Aug. 2, 1927.
Oil and gasoline, Illuminating. Red "C" Oil Company. 244,587; July 24; Serial No. 234,922; published Aug. 30, 1927.
Oils and greases, Lubricating. Bassick Manufacturing Company. 244,686; July 24; Serial No. 262,503; published May 8, 1928.
Oils and greases, Lubricating. Motoroyal Oil Co. 244,753; July 24; Serial No. 262,372; published May 15. 1928.
Oils and greases, Lubricating. Wallkill Oil Company. 244,702; July 24; Serial No. 262,191; published May 1. 1928.
Oils, Lubricating. California Northern Petroleum Co. 244,711; July 24; Serial No. 261,859; published May 1. 1928.
Oils, Lubricating. Chesapeake Oil Company. 244,677; July 24; Serial No. 262,953; published May 1, 1928.
Oils, Motor fuel. Looboyle Refining Company. 244,584; July 24; Serial No. 241,733; published May 8. 1928.
Petroleum, fuel oils, etc., Crude. Associated Oil Company. 244,630; July 24; Serial No. 261,231; published May 1, 1928.
Petroleum products. Panhandle Refining Company. 244,682; July 24; Serial No. 262,867; published May 1, 1928.
Petroleum, Refined. Standard Oil Company of New York. 69,674–5; renewed June 30, 1928.

CLASS 16.

Cleaner. E. L. Vanderhoof. 244,733; July 24; Serial No. 261,538; published May 8, 1928.
Lacquer floor covering. R. N. Nason & Co. 244,776; July 24; Serial No. 263,557; published May 15, 1928.
Paint, stucco paint, etc., Cold-water. Sterling Chemical Co. 244,756; July 24; Serial No. 262,188; published May 15, 1928.
Paint, stucco paint, etc., Cold-water. West Coast Kalsomine Co. 244,757; July 24; Serial No. 262,193; published May 15, 1928.
Paints. Elco Paint Products, Inc. 244,741; July 4; Serial No. 263,076; published May 8, 1928.
Paints, paint enamels, and varnishes. Weymac Manufacturing Corp. 244,742; July 24; Serial No. 263,060; published May 8, 1928.
Paints, Ready-mixed. Bluine Manufacturing Company. 244,761; July 24; Serial No. 262,504; published May 15,1928.
Paints, varnishes, and enamels. Midwest Varnish Company. 244,760; July 24; Serial No. 263,505; published May 15, 1928.
Primer surfacer. Elco Paint Products, Inc. 244,745; July 24; Serial No. 262,950; published May 15, 1928.

CLASS 17.

Cigars. Lewis Osterweis & Sons. 244,765; July 24; Serial No. 263,785; published May 22. 1928.
Cigars. R. Osterweis. 244,550; July 24; Serial No. 257,433; published May 15, 1928.

CLASS 19.

Steamers, tugs, etc., Freight. G. Babare. 244,541; July 24; Serial No. 248,984; published May 15, 1928.
Trucks, Refrigerating. Auto Refrigerating Company. 244,577; July 24; Serial No. 246,380; published May 15, 1928.
Wheelbarrows. Cleveland Wheelbarrow & Manufacturing Company. 244,613; July 24; Serial No. 227,567; published May 15, 1928.

CLASS 20.

Linoleum and cork carpet. Congoleum-Nairn, Inc. 244,707; July 24; Serial No. 262,019; published May 15, 1928.
Linoleum and cork carpet, Plain and inlaid. Congoleum-Nairn, Inc. 244,512; July 24; Serial No. 260,164; published May 15, 1928.

CLASS 21.

Batteries. Syd Radio Storage "B" Battery Co. 244,526; July 24; Serial No. 259,085; published May 8, 1928.
Batteries, Automobile electric storage starting and lighting. Perlin Perpetual Battery Company. 244,802; July 24.
Batteries, Storage. Red-Bar Battery Company. 244,632; July 24; Serial No. 261,588; published May 1, 1928.
Carbon sticks, carbon cylinders, etc. C. Conradty. 244,554; July 24; Serial No. 257,002; published May 8, 1928.
Clamps, ground grids, etc., Ground. Electric Devices Company. 244,650; July 24; Serial No. 263,129; published May 8, 1928.
Dials and illuminated dials, Vernier. Pilot Electric Manufacturing Company. 244,576; July 24; Serial No. 246,118; published May 8, 1928.
Electric switches. C. A. Dunham Company. 244,565; July 24; Serial No. 255,417; published Dec. 27, 1927.
Electrical apparatus, machines, and supplies. Demco, Incorporated. 244,523; July 24; Serial No. 259,325; published Apr. 24, 1928.
Heater, Electric hot-water. B. Berger. 244,507; July 24; Serial No. 260,373; published May 1, 1928.
Insulated wire. National India Rubber Company. 70,738; renewed Sept. 29, 1928.
Light, Electrically-operated automobile dashboard signal. G. A. Helmlinger. 244,516; July 24; Serial No. 259,852; published May 1, 1928.
Lighting fixtures, Electric-. Royalite Stores, Inc. 244,678; July 24; Serial No. 262,935; published May 8, 1928.
Lights, Automobile electric dome and electric corner. Ternstedt Manufacturing Company. 244,556; July 24; Serial No. 256,841; published May 8, 1928.
Phonograph reproducers and parts thereof, Electrical. Crosley Radio Corporation. 244,625; July 24; Serial No. 261,047; published May 8, 1928.

Radio receiving sets, etc., Battery-operated. Crosley Radio Corporation. 244,510; July 24; Serial No. 260,261; published May 8, 1928.
Radio receiving sets, loud speakers, etc. Splitdorf Radio Corporation. 244,532; July 24; Serial No. 257,710; published May 8, 1928.
Radio sets, Parts for. Dr. Heinr. Traun & Söhne, Vormals Harburger Gummi-Kamm-Compagnie. 244,762; July 24; Serial No. 262,985; published May 15, 1928.
Radio vacuum tubes. Diana Radio Tube Corp. 244,573; July 24; Serial No. 255,077; published May 8, 1928.
Spark plugs. Mechanical Products Corporation. 244,664; July 24; Serial No. 262,617; published May 1, 1928.
Transformers, Alternating-current. Karas Electric Company. 244,665; July 24; Serial No. 262,611; published May 8, 1928.
Wire, Insulated copper. Cornish Wire Company. 244,666; July 24; Serial No. 262,598; published May 1, 1928.
Wires, Lead. Federal Gauge Co. 244,615; July 24; Serial No. 211,347; published June 23, 1925.

CLASS 22.

Dolls. E. I. Horsman Co. Inc. 244,752; July 24; Serial No. 262,517; published May 8, 1928.
Dolls, L. M. Byrd. 244,750; July 24; Serial No. 262,391; published May 15, 1928.
Dolls, doll houses, toy animals, etc. Geo. Borgfeldt & Co. 244,774; July 24; Serial No. 263,582; published May 15, 1928.
Golf balls. Allied Golf Company. 244,763; July 24; Serial No. 263,848; published May 15, 1928.
Golf balls. Wilson-Western Sporting Goods Company. 244,778; July 24; Serial No. 263,451; published May 8, 1928.
Golf clubs. A. A. Robertson. 244,725; July 24; Serial No. 262,180; published May 8, 1928.
Golf clubs and balls. Western Auto Supply Agency of Los Angeles. 244,726; July 24; Serial No. 262,138; published May 8, 1928.
Golf clubs and parts thereof. Pyratone Products Corporation. 244,780; July 24; Serial No. 263,424; published May 15, 1928.
Golf-tee packages. Book of Golf Tees Company. 244,728; July 24; Serial No. 261,936; published May 8, 1928.
Hooks and fishing rods, Fish. L. C. Mathey. 244,740; July 24; Serial No. 263,694; published May 8, 1928.
Toy animals, Stuffed. Margarete Steiff, Inc. 244,773; July 24; Serial No. 263,613; published May 15, 1928.

CLASS 23.

Advertising machines, Mechanical. R. Poliakoff. 244,509; July 24; Serial No. 260,288; published May 15, 1928.
Automotive parts. King Quality Products Inc. 244,588; July 24; Serial No. 233,558; published May 3, 1927.
Axes, hatchets, adzes, etc. Collins Company. 244,771; July 24; Serial No. 263,641; published May 22, 1928.
Axle lathes, engine lathes, car-wheel borers, etc. Consolidated Machine Tool Corporation of America. 244,718; July 24; Serial No. 261,698; published May 15, 1928.
Blades, Safety-razor. I. J. Shapiro. 244,739; July 24; Serial No. 263,105; published May 22, 1928.
Bottle opener and pouring spout, Combined. Opnseel Company. 244,772; July 24; Serial No. 263,615; published May 22, 1928.
Dies, Wire-drawing. O. Diener. 244,688; July 24; Serial No. 262,350; published May 15, 1928.
Fire-extinguishers. H. W. Johns-Manville Company. 70,304; renewed Aug. 18, 1928.
Metal-working and woodworking machinery. Seifreat-Elstad Machinery Company. 244,713; July 24; Serial No. 261,841; published May 15, 1928.
Pump, Car-washer. Goulds Pumps, Incorporated. 244,553; July 24; Serial No. 257,286; published May 15, 1928.
Power actuators. Bragg-Kliesrath Corporation. 244,624; July 24; Serial No. 261,639; published May 15, 1928.
Razors and razor blades. Gillette Safety Razor Co. 70,856; renewed Oct. 13, 1928.
Razor blades. Darwin & Milner, Inc. 244,785; July 24.
Shovels, spades, and scoops. Ames Shovel and Tool Company. 244,658; July 24; Serial No. 263,364; published May 15 1928.
Steam-boiler injectors. Penberthy Injector Company. 71,070; renewed Oct. 27, 1928.

CLASS 25.

Locks and safes. Haines Manufacturing Corporation. 244,521; July 24; Serial No. 259,491; published May 15, 1928.

CLASS 26.

Gages, snap gages, etc., Dial indicating. Standard Gage Company. 244,796; July 24.
Goggles and parts thereof. American Optical Company. 244,647; July 24; Serial No. 263,299; published May 15, 1928.
Patterns, Dress. L. Bamberger & Company. 244,657; July 24; Serial No. 263,302; published May 15, 1928.

CLASS 27.

Watches, watch movements, and watchcases. A. Goodman. 244,549; July 24; Serial No. 249,656; published May 8, 1928.
Watches, watch movements, and watchcases. Illinois Watch Case Company. 244,548; July 24; Serial No. 250,176; published Aug. 30, 1927.

CLASS 28.

Badges, lapel buttons, pins, cuff links, etc., Fraternity. Delta Gamma Fraternity. 244,691; July 24; Serial No. 262,296; published May 1, 1928.
Badges, lapel buttons, pins, cuff links, etc., Fraternity. United Chapters of Phi Beta Kappa. 244,542; July 24; Serial No. 247,717; published May 1, 1928.
Collar holders. Baer & Wilde Co. 244,634; July 24; Serial No. 261,546; published May 8, 1928.
Jewelry. S. Abrams & Sons. 244,675; July 24; Serial No. 263,021; published May 8, 1928.
Jewelry. Chalson, Osborne Co. 244,670; July 24; Serial No. 262,393; published May 8, 1928.
Jewelry. L. H. Gura. 244,619; July 24; Serial No. 260,729; published May 1, 1928.
Jewelry. Kaufer Bros. 244,633; July 24; Serial No. 261,574; published May 8, 1928.
Jewelry. S. Levy. 244,618; July 24; Serial No. 260,739; published May 1, 1928.
Jewelry. Loftis Bros. & Co. 244,511; July 24; Serial No. 260,231; published May 1, 1928.
Jewelry. O. Pennino. 244,564; July 24, Serial No. 255,464; published May 1, 1928.
Jewelry. Trifari, Krussman & Fishel, Inc. 244,693; July 24; Serial No. 262,271; published May 1, 1928.
Jewelry. M. Wasilkoff. 244,674; July 24; Serial No. 263,057; published May 8, 1928.
Pins, bracelets, brooches, etc., Bar. B. F. Hirsch, Inc. 244,717; July 24; Serial No. 261,753; published May 8, 1928.
Platinum mountings. Joseph Frackman Company. 244,637; July 24; Serial No. 261,502; published May 1, 1928.
Rings and mountings therefor, Finger. Benjamin & Edward J. Gross Co. 244,694; July 24; Serial No. 262,220; published May 8, 1928.
Rings, bar pins, scarf pins, bracelets, and sautoirs, Finger. Gilbert & Co. Inc. 244,754; July 24; Serial No. 260,681; published May 1, 1928.
Rings, bar pins, scarf pins, bracelets, and sautoirs, Finger. J. L. Kaufman Corp. 244,620; July 24; Serial No. 260,686; published May 1, 1928.
Rings, brooches, bracelets, etc., Finger. S. Jollofsky & Sons, Inc. 244,719; July 24; Serial No. 261,676; published May 8, 1928.
Rings, Finger. Bauman-Massa Jewelry Co. 244,704; July 24; Serial No. 262,047; published May 1, 1928.
Silver-plated ware. Wm. A. Rogers Limited. 69,548; renewed June 16, 1928.
Silver hollow ware. Bernard Rice's Sons, Inc. 244,679; July 24; Serial No. 262,931; published May 8, 1928.

CLASS 29.

Brushes, Shaving. Gillette Safety Razor Co. 70,428; renewed Sept. 1, 1928.
Powder puffs. Lucille Buhl, Inc. 244,667; July 24; Serial No. 262,571; published May 8, 1928.
Powder puffs. M. Levy. 244,629; July 24; Serial No. 261,198; published May 1, 1928.

CLASS 30.

Teapots, sugar bowls, pie servers, etc. Robeson Rochester Corporation. 244,646; July 24; Serial No. 263,104; published May 15, 1928.

CLASS 31.

Refrigerators of all types. R. E. Ottenheimer. 244,758; July 24; Serial No. 262,254; published May 15, 1928.

CLASS 32.

Built-in woodwork and fixtures. Concealo Fixture Company. 244,560; July 24; Serial No. 255,968; published Jan. 17, 1928.
Pillows. F. R. Mitchell Co. 244,703; July 24; Serial No. 262,173; published May 15, 1928.
Racks, cabinets, etc. J. Willy. 244,544; July 24; Serial No. 247,510; published May 15, 1928.
Radiocabinets. Superior Cabinet Corporation. 244,568; July 24; Serial No. 254,729; published May 15, 1928.
Screen cabinets. E. G. Zikeiman. 244,770; July 24; Serial No. 263,675; published May 22, 1928.
Stools, Bathroom and kitchen. Columbian Enameling & Stamping Co. 244,517; July 24; Serial No. 259,760; published May 15, 1928.

CLASS 33.

Glass, Laminated sheet. Pittsburgh Safety Glass Company. 244,656; July 24; Serial No. 263,280; published May 15, 1928.

CLASS 34.

Boilers, Gas. Bryant Heater & Manufacturing Company. 244,551; July 24; Serial No. 257,341; published May 15, 1928.
Dampers, Smoke-flue. F. W. Stanke. 244,514; July 24; Serial No. 250,884; published May 15, 1928.
Headlights, Gas. R. E. Dietz Company. 71,603; renewed Dec. 1, 1928.
Lamps, Gas-burning vehicle. R. E. Dietz Company. 71,476; renewed Nov. 24, 1928.
Stoves. Birmingham Stove and Range Company. 244,671; July 24; Serial No. 262,388; published May 15, 1928.

CLASS 35.

Hose, belting, packing, valves, gaskets, and springs. Revere Rubber Co. 31,930; renewed Sept. 6, 1928.
Tires and parts, rubber hose and tubing, etc. Goodyear Tire & Rubber Company. 244,710; July 24; Serial No. 261,875; published May 15, 1928.
Tires and tubes, Pneumatic and cushion. Hood Rubber Company. 244,755; July 24; Serial No. 261,571; published May 22, 1928.
Tires and tubes, Pneumatic rubber. American Rubber & Tire Co. 244,673; July 24; Serial No. 264,069; published May 15, 1928.
Tires and tubes, Pneumatic rubber. American Rubber & Tire Co. 244,769; July 24; Serial No. 263,680; published May 22, 1928.

CLASS 36.

Harmonicas. M Hohner, Inc. 244,533; July 24; Serial No. 257,628; published May 1, 1928.
Musical instruments. Rolmonica Music Co. of Baltimore, Md. 244,635; July 24; Serial No. 261,522; published May 8, 1928.
Piano and stringed musical instrument wires. Vereinigte Stahlwerke Aktiengesellschaft. 244,735; July 24; Serial No. 261,294; published May 15, 1928.
Pianos, player pianos, and player-piano actions. Lauter Co. 68,519; renewed Apr. 14, 1928.
Strings for bow musical instruments, Steel and metal covered. Carl Fischer, Inc. 244,669; July 24; Serial No. 262,397; published May 8, 1928.

CLASS 37.

Pens, Fountain. Mabie, Todd & Co. 71,446; renewed Nov. 24, 1928.
Stationery, Articles of. Spencerian Pen Company. 32,197; renewed Dec. 6, 1928.

CLASS 38.

Magazine, Weekly. Vogue Company. 69,530; renewed June 16, 1928.

CLASS 39.

Belts. Colonial Leather Goods Co. Inc. 244,578. July 24; Serial No. 245,694; published May 10, 1927.
Boots and shoes, Rubber. Hood Rubber Company. 71,300; renewed Nov. 17, 1928.
Gowns, dresses, wraps, and coats. Annetta Waist & Dress Co. Inc. 244,529; July 24; Serial No. 257,913; published Mar. 27, 1928.
Hats. Borsalino Giuseppe e Tratello Società Anonima. 71,575; renewed Dec. 1, 1928.
Hats, Gentlemen's felt derbies and soft-brimmed. Borsalino Giuseppe e Tratello Società Anonima. 71,574; renewed Dec. 1, 1928.
Hats, Ladies'. Quaker Hat Co. 244,585; July 24; Serial No. 240,364; published May 31, 1927.
Hats, Ladies' and children's. Phil Dressner & Co. 244,543; July 24; Serial No. 247,676; published June 7, 1927.
Hats, Ladies' and misses'. Consolidated Millinery Company. 244,621; July 24; Serial No. 249,337; published July 12, 1927.
Hosiery for men, women and children. Merit Hosiery Company. 244,636; July 24; Serial No. 261,518; published Apr. 3, 1928.
Hosiery, underwear, hats, dresses, etc. C. D. Newton. 244,566; July 24; Serial No. 253,394; published Mar. 20, 1928.
Knit goods. L. H. Hays. 56,661; renewed Oct. 16, 1926.
Shoes. Gimbel Brothers, New York. 244,616; July 24; Serial No. 177,840; published Mar. 29, 1927.
Shoes. Kahler Shoe Co. Inc. 244,586; July 24; Serial No. 239,037; published Dec. 13, 1927.
Shoes, Leather. E. J. Ramsey. 244,545; July 24; Serial No. 247,284; published Dec. 13, 1927.
Ties, Bow. Advance Neckwear Co. 244,582; July 24; Serial No. 243,678; published Apr. 19, 1927.
Underwear, Ladies' and children's. Portage Underwear Manufacturing Co. 244,579; July 24; Serial No. 245,289; published Oct. 25, 1927.

CLASS 40.

Binding, Piping and bias. Economy Bias Binding Co. 244,807; July 24.
Hat trimmings. Aitken, Son & Co. 68,854; renewed May 5, 1928.
Rosettes. Stark Brothers Ribbon Corporation. 244,806; July 24.

CLASS 41.

Parasols and umbrellas. Cravenette Company Limited. 69,476; renewed June 16, 1928.

CLASS 42.

Cotton sheetings. Indiana Cotton Mills. 71,051; renewed Oct. 27, 1928.
Cotton sheetings. Indiana Cotton Mills. 71,301; renewed Nov. 17, 1928.
Elastic-webbing textile piece goods. Everlastik, Inc. 244,714; July 24; Serial No. 261,805; published May 8, 1928.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. Inc. 244,623; July 24; Serial No. 264,273; published May 8, 1928.
Linen piece goods. Robert McBratney & Co. 244,552; July 24; Serial No. 257,299; published May 15, 1928.
Quilting and quilts and made-up pads of textile fabrics, Textile. Acme Quilting Co. 244,524; July 24; Serial No. 259,270; published May 15, 1928.
Sheets and slips, sheeting in the piece, silk fabrics, etc., Bed. Pepperell Manufacturing Company. 244,660; July 24; Serial No. 263,666; published May 1, 1928.
Silk, cotton, etc., piece goods. N. Fluegelman & Co. 244,638; July 24; Serial No. 261,499; published Mar. 20, 1928.
Silk piece goods. Continental Silk Company. 244,525; July 24; Serial No. 259,105; published May 15, 1928.
Textiles. Adams Manufacturing Company. 70,980; renewed Oct. 20, 1928.
Wool, cotton, silk rayon, and linen fabrics, and for combinations thereof in the piece. Fred Butterfield & Co. 244,622; July 24; Serial No. 264,283; published May 15, 1928.

CLASS 43.

Threads. Belding Heminway Company. 244,540; July 24; Serial No. 252,544; published May 15, 1928.
Threads, Imitation golden or silver gilt on textile core. Manufacture Lyonnaise de Filés d'Or et d'Argent; 244,515; July 24, Serial No. 260,067; published May 15, 1928.

CLASS 44.

Bags or bottles and fountain syringes, Hot-water. United Drug Company. 71,700; renewed Dec. 8, 1928.
Dental hand pieces. J. Charlestein. 244,791; July 24.
Foot protectors. M. Schultz. 71,193; renewed Nov. 10, 1928.
Massage devices, Electrically-operated. A. Lusch. 244,722; July 24; Serial No. 262,316; published May 8, 1928.
Massaging vibrator. T. A. Buck. 244,736; July 24; Serial No. 261,236; published May 8, 1928.
Sheeting, Hospital rubber and sanitary rubber. J. C. Penney Company. 244,730; July 24; Serial No. 261,927; published May 8, 1928.
Surgical apparatus. Drägerwerk Heinr. u. Bernh. Dräger. 70,427; renewed Sept. 1, 1928.
Syringes. Hanover Rubber Co. "Excelsior" Inc. 244,737; July 24; Serial No. 261,001; published May 15, 1928.
Therapeutic lamps. Paul E. Johnson, Incorporated. 244,727; July 24; Serial No. 262,088; published May 15, 1928.

CLASS 45.

Beverages. C. Calandra. 244,746; July 24; Serial No. 262,796; published May 22, 1928.
Beverages. N. H. Margolis. 244,689; July 24; Serial No. 262,319; published May 15, 1928.
Beverages and syrups for making the same. J. Kohlmann. 244,768; July 24; Serial No. 263,708; published May 22, 1928.
Beverages and syrups, extracts, and concentrates for preparing the same. Sierra Club Beverage Co. Inc. 244,628; July 24; Serial No. 261,150; published May 15, 1928.
Beverages, Cereal Malt. Excelsior Brewery Inc. 244,690; July 24; Serial No. 262,298; published May 15, 1928.
Beverages, Maltless. J. R. Richardson. 244,508; July 24; Serial No. 260,292; published May 15, 1928.
Ginger ale. B. W. Kauffman. 244,777; July 24; Serial No. 263,530; published May 22, 1928.
Grape juice. United Grape Products, Inc. 244,661; July 24; Serial No. 263,986; published May 15, 1928.
Syrups, Fruit. A. J. Fleuti. 244,662–3; July 24; Serial Nos. 262,652–3; published May 15, 1928.
Water, Mineral. Radium Minerals Corporation. 244,680; July 24; Serial No. 262,928; published May 15, 1928.
Water, table water, and beverages, Distilled. Ballis Bros. 244,789; July 24.

CLASS 46.

Almonds, Salted. Karnak Chemical Company. 244,595; July 24; Serial No. 263,214; published May 15, 1928.
Apples, Fresh. Associated Growers of British Columbia, Limited. 244,738; July 24; Serial No. 263,115; published May 22, 1928.
Apples, Fresh. Connell Bros. Company. 244,611; July 24; Serial No. 229,725; published Sept. 13, 1927.
Bacon. Rath Packing Company. 244,591; July 24; Serial No. 264,050; published May 15, 1928.
Beef, lamb, pork, etc., Fresh roasts of. General Seafoods Corporation. 244,605; July 24; Serial No. 257,978; published May 15, 1928.
Biscuits, Cocoanut. F. B. Washburn & Co. Corporation. 71,291; renewed Nov. 17, 1928.
Biscuits, Health. Rafiax Products Company. 244,724; July 24; Serial No. 262,258; published May 8, 1928.
Bread. I. Wisotsky. 244,734; July 24; Serial No. 261,332; published May 8, 1928.
Bread, rolls, cakes, pastry, and pie. Jennings Bakery. 244,744; July 24; Serial No. 263,043; published May 8, 1928.
Buns. Twentieth Century Bakery, Inc. 244,767; July 24; Serial No. 263,737; published May 8, 1928.
Candy. Peoples Drug Stores, Inc. 244,592; July 24; Serial No. 263,969; published May 15, 1928.
Candy. Robt. F. MacKenzie Co. 244,749; July 24; Serial No. 262,665; published May 22, 1928.
Candy and chocolates, Bar. Bur-Bee Candy Co. 244,597; July 24; Serial No. 262,951; published May 15, 1928.
Candy and chocolates, Bar. Bur-Bee Candy Co. 244,598; July 24; Serial No. 262,950; published May 8, 1928.
Candy bars. Curtiss Candy Company. 244,590; July 24; Serial No. 264,150; published May 15, 1928.
Candy jellies. Roach, Tisdale & Co. 69,951; renewed July 21, 1928.

Canned cherries. Grand Traverse Packing Company. 244,593; July 24; Serial No. 263,651; published May 15, 1928.
Canned crab meat. Mitsubishi Shoji Kaisha, Ltd. 244,531; July 24; Serial No. 257,810; published May 1, 1928.
Canned fish. Aktiebolaget Sveriges Forenade Knoservfabriker. 244,520; July 24; Serial No. 259,523; published May 8, 1928.
Canned fish. French Sardine Company of California. 244,805; July 24.
Canned fruits and vegetables. D. Di Fiore Canning Company. 244,608; July 24; Serial No. 243,255; published May 3, 1927.
Canned salmon. New England Fish Co. 244,574; July 24; Serial No. 253,040; published Apr. 3, 1928.
Canned sardines. Addison Packing Company. 244,606; July 24; Serial No. 247,053; published May 15, 1928.
Canned tomatoes, sauerkraut, beans, squab, and squab broth. L. Johann. 244,603; July 24; Serial No. 261,258; published May 1, 1928.
Cereal breakfast food. American Stores Company. 244,596; July 24; Serial No. 263,192; published May 15, 1928.
Cocoa and chocolate. Cadbury Brothers, Limited. 67,928; renewed Feb. 25, 1928.
Coffee. Empresa Agricola Mira-Flores. 244,655; July 24; Serial No. 263,261; published May 8, 1928.
Coffee. G. W. & B. B. Bickers. 244,729; July 24; Serial No. 261,934; published May 22, 1928.
Coffee. Oakford & Fahnestock. 71,789; renewed Dec. 15, 1928.
Coffee. T. A. Patterson. 244,687; July 24; Serial No. 262,482; published May 8, 1928.
Coffee. Geo. E. Pellens Co. 244,790; July 24.
Cornstarch. National Starch Co. 71,550; renewed Dec. 1, 1928.
Doughnuts. Tasty Doughnut Co. 244,801; July 24.
Feed. Pinnacle Mills. 244,775; July 24; Serial No. 263,560; published May 8, 1928.
Feed, Gluten. Corn Products Refining Company. 71,634; renewed Dec. 8, 1928.
Feed, Poultry, stock, and dairy. Northrup, King & Company. 244,609; July 24; Serial No. 240,992; published Jan. 11, 1927.
Feeds, Stock. Nutrena Feed Mills, Inc. 244,600; July 24; Serial No. 262,376; published May 15, 1928.
Figs. N. A. Haydar. 244,595; July 24; Serial No. 260,634; published May 8, 1928.
Flour, Wheat. International Milling Company. 244,766; July 24; Serial No. 263,763; published May 8, 1928.
Flour, Wheat. Larabee Flour Mills Company. 244,557; July 24; Serial No. 256,197; published May 1, 1928.
Flour, Wheat. Pillsbury Flour Mills Company. 244,781; July 24; Serial No. 263,422; published May 8, 1928.
Fruit, Dried. Cron & Dehn, Inc. 244,602; July 24; Serial No. 262 294; published May 15, 1928.
Fruits and canned food products, Dried. Seggermann Bros. 32,047; renewed Oct. 11, 1928.
Fruits, Dried. Seggermann Bros. 32,044-5; renewed Oct. 11, 1928.
Fruits, Dried. Seggermann Bros. 32,091; renewed Oct. 25, 1928.
Fruits, Dried. R. H. Selby. 244,610; July 24; Serial No. 238,286; published May 15, 1928.
Grapefruit. E. Steiner. 244,748; July 24; Serial No. 262,683; published May 22, 1928.
Grapes, Fresh. J. L. Seibel. 244,750; July 24; Serial No. 262,628; published May 22, 1928.
Gum, Chewing. International Gum Corp. 244,601; July 24; Serial No. 262,307; published May 15, 1928.
Gum, Chewing. O. D. Jones. 71,640; renewed Dec. 8, 1928.
Lard substitutes. Virginia Lard and Provision Company. 244,599; July 24; Serial No. 262,582; published May 15, 1928.
Nuts and nuts in their natural state, Candied and salted. Peterson Nut Company. 244,604; July 24; Serial No. 258,956; published May 15, 1928.
Oranges, lemons, and grapefruit. Sierra Madre-Lamanda Citrus Association. 244,607; July 24; Serial No. 244,891; published Feb. 21, 1928.
Peas, Dried green split. H. C. Knoke & Company. 244,594; July 24; Serial No. 263,217; published May 15, 1928.
Pickles and sauces, Mustard. G. A. Bayle. 31,805; renewed July 12, 1928.
Products, Packing-house. Swift and Company. 32,233; renewed Dec. 13, 1928.
Products, Packing-house. Swift and Company. 32,235; renewed Dec. 13, 1928.
Sardines in oil, Smoked. Stavanger Preserving Company. 70,539; renewed Sept. 8, 1928.
Spices and flavoring extracts. S. Tesoro. 244,558; July 24; Serial No. 256,062; published May 8, 1928.
Syrups, canned fruits, etc., Table. California Commercial Company. 244,797; July 24.
Syrups, canned fruits, etc., Table. California Commercial Company. 244,798-9; July 24.
Toffee. Sam Turner Company. 244,530; July 24; Serial No. 257,908; published May 1, 1928.
Vinegar, Malt. Grimble & Co. 70,729; renewed Sept. 29, 1928.
Wafers, biscuits, crackers, cakes, and bread. Perfection Biscuit Company. 70,629; renewed Sept. 15, 1928.

CLASS 48.

Beer. Aktienbrauerei zum Löwenbräu in München. 71,676; renewed Dec. 8, 1928.

CLASS 50.

Leather, Manufactured imitation. Pantasote Leather Company. 32,125; renewed Nov. 8, 1928.
Stakes, Garden. New England Farm & Garden Ass'n. Inc. 244,804; July 24.
Waterproof fabrics. Cravenette Company, Limited. 69,743; renewed June 30, 1928.

ALPHABETICAL LIST OF LABELS.

Delmonico. For Coffee. Wheeling Coffee and Spice Company. 34,360; July 24.
Direct Flow Syringe. For Direct-Flow Syringes. A. Gortz. 34,348; July 24.
Flat Wall Paint. For Flat Wall Paint. E. C. Benson. 34,346; July 24.
Hi-Way Henry Cross Country 'Tin Lizzy' Race. For a Game. Alderman, Fairchild Co. 34,344; July 24.
Lemon Oil. For Furniture Polish. Midway Chemical Co. 34,350; July 24.
Lucky Lindy. For Candy. American Novelty Candy Co. 34,345; July 24.
Mrs. Klein's Home Made Real Egg Noodles. For Noodles. A. S. Klein. 34,349; July 24.
Muscho. For Bacon. Henry Muhs Company. 34,351; July 24.
Oceanic. For Salmon. Oceanic Sales Company. 34,352; July 24.
Osborne's Earache Remedy. For Earache Drops. F. H. Osborne. 34,353; July 24.
Peny-Savr. For Bread. Quaker Baking Company. 34,354; July 24.
Qwik-N-Eazy. For Cleaner. Twentieth Century Manufacturing Company. 34,358; July 24.
Savage Superior. For Shot Shells. M. W. Savage Factories, Inc. 34,355; July 24.
Sonoma County. For Fresh Grapes. California Grape Growers Exchange. 34,347; July 24.
Temple. For Canned Tomatoes. Utah Canning Co. 34,359; July 24.
Time O'Day. For Canned Peaches. Jordan Stevens Company. 34,357; July 24.
Tonka. For Canned Tomatoes. Jordan Stevens Company. 34,356; July 24.

ALPHABETICAL LIST OF PRINTS.

A Little Light on a Burning Subject. For Coal. Old Ben Coal Corporation. 11,118; July 24.
E Roofing. For Roofing Products. J. T. Morley. 11,117; July 24.
Fifteen—All. For Junior Misses' Apparel. Jordan Marsh Company. 11,121; July 24.
Grace Tancill Jersey Sweater Dress, Model XII. For Dresses. G. Tancill. 11,122; July 24.
His First Great Adventure. For Wheat Breakfast Food. Cream of Wheat Co. 11,112; July 24.
In 'B. V. D.' Your Every Movement Sets Up a 'Bellows Action. For Athletic Underwear. B. V. D. Company. 11,111; July 24.
Let Your Conversation be Witty; Your Manner Gracious. For Heins 57 Varieties. H. J. Heins Company. 11,114; July 24.
Meet the Ghillie. For Shoes. Jordan Marsh Company. 11,120; July 24.
Satisfaction with every Transaction. For Women's Misses', and Children's Wearing Apparel. P. D. Jacobson. 11,116; July 24.
So Much Depends on the Sauce. For Cooked Spaghetti in Tomato Sauce with Cheese. H. J. Heins Company. 11,115; July 24.
The Finishing Touch to a Woman's Costume, Often as not, is the Very Secret of Her Charm. For Heins 57 Varieties. H. J. Heins Company. 11,113; July 24.
This Weigh to Fashion. For Junior Misses' Apparel. Jordan Marsh Company. 11,119; July 24.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 24TH DAY OF JULY, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A. Hch. Rietzschel G. m. b. H. (See Goldhammer, Leo, assignor.)
Aaronson, Henry A., New York, N. Y. Preparing pentaerythrite. 1,678,623; July 24.
Abbott Laboratories. (See Adams, R., Noller, and Arvin, assignors.)
Adams, Gale L., Elizabeth, N. J., assignor to Standard Oil Development Company. Flotation method. 1,678,311; July 24.
Adams, Gale L., Huntington Park, Calif., assignor to Standard Oil Development Company. Flotation oil. 1,678,312; July 24.
Adams, Roger, Urbana, Ill., C. R. Noller, St. Louis, Mo., and J. A. Arvin, Urbana, assignors to Abbott Laboratories, North Chicago, Ill. Cyclopentenyl-substituted aliphatic acids. 1,678,175; July 24.
Aeolian Company, The. (See Volare, Fred, assignor.)
Ahles, Martha W., Chicago, Ill. Collapsible shoe cabinet. 1,678,415; July 24.
Air Reduction Company. (See Schlitt, J. L., and Dennis, assignors.)
Akron-Selle Company, The. (See Hower, J. B., and Zeller, assignors.)
Aktiebolaget Baltic. (See Magni, Karl G., assignor.)
Aktiebolaget Elektrisk Malmletning. (See Sundberg, Karl, assignor.)
Allegheny Steel Company. (See Schulte, Louis, assignor.)
Allen, Lee E., and J. K. Furst, assignors to Pennsylvania Engineering Works, New Castle, Pa. Hot-metal mixer. 1,678,455; July 24.
Allen, Robert C., Ensington, Pa., assignor to Westinghouse Gear and Dynamometer Company. Gear structure. 1,678,582; July 24.
Altermatt, George, assignor to Gibson, Incorporated, Kalamazoo, Mich. Resonance ring for stringed musical instruments. 1,678,456; July 24.
American Aluminum Ware Company. (See Brucker, Henry, assignor.)
American Cast Iron Pipe Company. (See Carson, Harry Y., assignor.)
American Fibre Corporation. (See Baldwin, Earl F., assignor.)
American Freight Service, Inc. (See Perin, Donald W., assignor.)
American Nuplax Corporation. (See Homberg, Felix, assignor.)
American Oven & Machine Company. (See Notz, F., and Royan, assignors.)
American Resistor Corporation. (See Tarkington, B. G., and Winsinger, assignors.)
American Sheet and Tin Plate Company. (See O'Brien, T., and Zimmerman, assignors.)
American Steel and Wire Company of New Jersey, The. (See Howe, James F., assignor.)
American Telephone and Telegraph Company. (See Dean, Samuel W., assignor.)
American Telephone and Telegraph Company. (See Eagon, Lloyd L., assignor.)
American Telephone and Telegraph Company. (See Green, Estill I., assignor.)
American Telephone and Telegraph Company. (See Holden, William H. T., assignor.)
American Telephone and Telegraph Company. (See Parker, R. D., and Perry, assignors.)
American Transom Co. Inc., The. (See Wills, Charles M., assignor.)
Amundsen, A/S, Refrigerator Company. (See Amundsen, Ivar, assignor.)
Amundsen, Ivar, assignor to A/S Amundsen Refrigerator Company, Oslo, Norway. Refrigerating plant. Re17,045; July 24.
Anderson, Carl J. (See Hursh, H. B., Anderson, and Bartels.)
Anderson, John N., Hoboken, assignor to Otis Elevator Company, Jersey City, N. J. Elevator safety appliance. 1,678,031; July 24.
Andresen, Lauritz B., Minneapolis, assignor to M. F. Patterson Dental Supply Co., St. Paul, Minn. Tool handle. 1,678,095; July 24.
Andresen, Lauritz B., Minneapolis, assignor to M. F. Patterson Dental Supply Co., St. Paul, Minn. Contra-angle attachment for dental handpieces. 1,678,096; July 24.
Andresen, Laurits B., Minneapolis, assignor to M. F. Patterson Dentan Supply Co., St. Paul, Minn. Bearing for angle attachments for dental handpieces. 1,678,097; July 24.
Andrewartha, William G., Sydney, New South Wales, Australia. Manufacture of methyl eugenol. 1,678,416; July 24.
Art Metal Construction Company. (See Sampson, Erick, sr., assignor.)
Arvin, J. A. (See Adams, R., Noller, and Arvin.)
Atkinson, Robert L. S., Columbus, Ohio. Battery tool. 1,678,313; July 24.
Austin, Basil G., assignor to The Austin Organ Company, Hartford, Conn. Electropneumatic valve mechanism. 1,678,547; July 24.
Austin, John T., assignor to The Austin Organ Company, Hartford, Conn. Organ stop action. 1,678,546; July 24.
Austin Organ Company, The. (See Austin, Basil G., assignor.)
Austin Organ Company, The. (See Austin, John T., assignor.)
Autocar Company, The. (See Brumbaugh, Andrew K., assignor.)
Automatic Electric Inc. (See Blessing, John G., assignor.)
Automatic Electric Inc. (See Richardson, Rodney G., assignor.)
Autosales Corporation. (See Hiltz, Harry B., assignor.)
Averill, William H., assignor to Joseph Pollak Tool and Stamping Company, Boston, Mass. Folding display stand. 1,677,880; July 24.
Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)
Badler, Abraham A., assignor of one-half to J. H. Kanarek, New York, N. Y. Smoker's article. 1,677,946; July 24.
Baer, Lawrence E., assignor to The Baer & Wilde Company, Attleboro, Mass. Collar holder. Des. 75,818; July 24.
Baer & Wilde Company, The. (See Baer, Lawrence E., assignor.)
Bailey, David R., Sacramento, assignor to California Almond Growers Exchange, San Francisco, Calif. Cracker plate. 1,678,098; July 24.
Baish, Adrian, Wadsworth, Ohio. Mold. 1,677,881; July 24.
Baker, Frank J., Dayton, Ohio. Sash-measuring gauge or the like. 1,678,620; July 24.
Baker, Jacob F., Detroit, Mich. Necktie. 1,678,374; July 24.
Baker, John C. (See Wallace, C. F., and Baker.)
Baker Perkins Company Incorporated. (See Pointon, John E., assignor.)
Baldwin, Earl F., assignor to American Fibre Corporation Gardner, Mass. Loom. 1,678,099; July 24.
Baldwin, Earl F., assignor to American Fibre Corporation, Gardner, Mass. Strand-severing mechanism. 1,678,100; July 24.
Ballman, Edwin C., assignor to Valley Electric Company, St. Louis, Mo. Variable resistance. 1,677,886; July 24.
Balmer, John H., Maplewood, N. J. Combination bath fixture. Des. 75,819; July 24.
Balmer, John H., Maplewood, N. J. Combination bath fixture. Des. 75,820; July 24.
Barcalo Manufacturing Company. (See Vallone, Charles, assignor.)
Barnay, Antoine, Paris, France. Automatic switching system. 1,678,318; July 24.
Barnebey, Oscar L., Columbus, Ohio. Revivifying of spent decolorizing materials. 1,677,947; July 24.
Bartles, William M. (See Hursh, H. B., Anderson, and Bartels.)
Bartleson, Alfred F., Sodus Center, assignor to Fruit Belt Preserving Company, East Williamson, N. Y. Coking and apparatus used in such method. 1,677,912; July 24.
Bastian-Blessing Company, The. (See Bastian, Charles L., assignor.)
Bastian, Charles L., assignor to The Bastian-Blessing Company, Chicago, Ill. Dispensing pump. 1,678,051; July 24.
Battle Creek Bread Wrapping Machine Co. (See Metcalf, Howard H., assignor.)
Bayard, Armand and E. E., Chicago, Ill. Manufacturing jointed jewelry. 1,678,239; July 24.
Bayardi, Ettore E. (See Bayardi, Armand and E. E.)
Bay State Optical Company. (See Nerney, George E., assignor.)

Bay West Paper Co. (See Vaughan, Frank P., assignor.)
Beal, Henry S., Springfield, Vt. Grease gun. 1,677,097; July 24.
Beam, Charles C., assignor to The Potomac Glass Company, Cumberland, Md. Goblet or similar article. Des. 75,821; July 24.
Beams, Emmett, Louisville, Ky. Garage-door mechanism. 1,678,583; July 24.
Beck, Alwin H., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. 1,678,417; July 24.
Beirnes, Alfred H., Winnipeg, Manitoba, Canada. Oil burner. 1,678,314; July 24.
Belcher, Warren J., assignor to The Whitney Mfg. Co., Hartford, Conn. Connecting pin for link chains. 1,678,315; July 24.
Belcher, Warren J., assignor to The Whitney Mfg. Co., Hartford, Conn. Chain-drive gearing. 1,678,457; July 24.
Belden Manufacturing Company. (See Hovlid, Norman G., assignor.)
Bell Telephone Laboratories, Incorporated. (See Caverly, Harry C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Harper, Robert W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mortimer, Louis A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Rettenmeyer Francis X., assignor.)
Belluche, Frank R., Mansfield, Mass. Mechanical movement. 1,678,548; July 24.
Beloit Iron Works. (See Berry, Earl E., assignor.)
Benesh, Matthew E., Cicero, Ill., assignor to The Connersville Blower Co., Connersville, Ind. Oiler. 1,678,206; July 24.
Bennett, Alexander C., Fairfield, New South Wales, Australia. Treating seeds to augment their cultural value. 1,678,418; July 24.
Bennett, Carlos F., Oceanside, Calif. Automobile radiator ornament. Des. 75,822; July 24.
Bennett, Ralph S., Pittsfield, Mass., assignor to General Electric Company. Fuse container. Des. 75,823; July 24.
Bennitt, Mark, San Francisco, Calif. Fluid pump. 1,678,052; July 24.
Benz, Gustav A., Philadelphia, Pa. Snap fastener. 1,678,240; July 24.
Benz, Gustav A., Philadelphia, Pa. Shoe-fastening device. 1,678,241; July 24.
Bergen, Peter H., Goessel, Kans. Pick-up grain guard. 1,678,549; July 24.
Bergman, Bernard, New York, N. Y. Dirigible headlight. 1,678,495; July 24.
Bergman, Johan O., assignor to Rockford Novelty Furniture Cmpany, Rockford, Ill. Console radiocabinet. 1,678,032; July 24.
Birmingham and Prosser Co. (See Prosser, Henry G., assignor.)
Bernasconi, Charles, and R. M. Berthier, Chamber, Savoy, France. Electromechanical lamp. 1,678,496; July 24.
Bernz, Otto, Newark, N. J. Plumber's furnace. 1,678,310; July 24.
Berry, Earl E., Beloit, Wis., assignor to Beloit Iron Works, Removable-type Fourdrinier paper-making machine. 1,678,176; July 24.
Berry, Walter S. (See Gallant, Robert M., assignor.)
Berssenbrugge, William H., Milwaukee, Wis. Ash tray. 1,678,375; July 24.
Berthier, René M. (See Bernasconi, C., and Berthier.)
Bicknell, Rupert C., Toronto, Ontario, Canada. Spring suspension for automobile chassis frames. 1,677,948; July 24.
Bieberstein, Frank A., Milwaukee, Wis. Vest. 1,677,913; July 24.
Biggert, Florence C., jr., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Multiple shears. 1,678,458; July 24.
Billeter, Otto, E. Rothlin, and J. Peyer, assignors to Chemical Works formerly Sandoz, Basel, Switzerland. Manufacture of easily-soluble anæsthetics of the meta-amimobenzoic acid ester series. 1,678,317; July 24.
Blackstone Mfg. Co., The. (See More, G., and Oberg, assignors.)
Blaw-Knox Company. (See Sloan, Alonzo H., assignor.)
Blessing, John G., Oak Forest, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Punching die. 1,678,319; July 24.
Blewett, Joseph A., Philadelphia, Pa. Watch charm or similar article. Des. 75,824; July 24.
Bliss, Chester T., Melrose Highlands, assignor to Chetlew Manufacturing Company, Malden, Mass. Electrical Christmas candles. 1,677,908; July 24.
Bloom, Carl G., assignor of one-half to C. M. Minardo, Detroit, Mich. Rim lock. 1,678,550; July 24.
Blocker, Samuel J., Dallas, Tex. Animated sign. 1,678,320; July 24.
Blunt, James G., Schenectady, N. Y. Truck for locomotive engines. 1,678,321; July 24.
Blunt, James G., Schenectady, N. Y. Four-wheel truck for railroad vehicles. 1,678,322; July 24.
Boax, John J., McKeesport, Pa., assignor to National Tube Company. Adjustable die holder. 1,678,000; July 24.
Boax, John J., McKeesport, and B. S. Robinoff, assignors to National Tube Company, Pittsburgh, Pa. Radial multiple-spindle drill. 1,677,999; July 24.
Bond, Charles E., Spencerville, Md. Shock absorber. 1,677,949; July 24.
Bonnell, Kirke L. (See Tohtz, H. W., and Bonnell.)
Bonney-Floyd Company, The. (See Edmunds, Glenn E., assignor.)
Bonos, Charles, Euston, Pa. Wire cutter. 1,678,551; July 24.
Boorum & Pease Company. (See Von Auw, Alwin, assignor.)
Bosco, George B., Chicago, Ill. Sleeper anchor. 1,677,882; July 24.
Bosco, George B., Chicago, Ill. Bracket for shores. 1,678,177; July 24.
Bostaph Engineering Co. (See Ramage, Alexander S., assignor.)
Boullion, Alexandre, Liege, Belgium. Laying tramway lines. 1,678,552; July 24.
Boving, Jens O., Westminster, London, England. Absorption refrigerating apparatus. 1,678,242; July 24.
Bowdan, Melvin, Los Angeles, Calif. Combination solid and pneumatic tire. 1,678,419; July 24.
Bower, Justus H., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Air-conditioning system. 1,678,101; July 24.
Bowland, Andreas, Wilkinsburg, Pa. Valve for fluid-fuel burners. 1,678,459; July 24.
Bowlus, Glenn H., Los Angeles, Calif. Oil-storage-tank breather. 1,678,376; July 24.
Bowman, Newton K., Bowdil, Ohio. Bit. 1,677,950; July 24.
Brace, Porter H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Permanent-magnet steel. 1,678,091; July 24.
Brackett, Edward M., et al. (See Mulroney, John E., assignor.)
Brackett, Fred, et al. (See Mulroney, John E., assignor.)
Brackett Stripping Machine Company, The. (See Mulroney, John E., assignor.)
Bradford, Henry B., Wilmington, assignor to Edge Moor Iron Company, Edge Moor, Del. Water tube for furnace walls. 1,677,887; July 24.
Branch, Benjamin A., and C. Schnurr, Long Beach, Calif. Saw-filing machine. 1,678,279; July 24.
Brandegger, Willy, Stuttgart, Germany. Sound-producing instrument. 1,678,553; July 24.
Brandt, Rudolph, assignor to Petry and Brandt, San Francisco, Calif. Machine for drilling and countersinking brake linings. 1,678,207; July 24.
Branson, Earl, Vannack, Mont. Body brace. 1,678,584; July 24.
Brenzinger, Julius, Fairfield, assignor to The Max Ams Chemical Engineering Corporation, Bridgeport, Conn. Washing or dyeing material. 1,678,053; July 24.
Breslauer, Max, Leipzig, Germany. Photographic apparatus. 1,678,460; July 24.
Bresler, Benjamin R., Bridgeport, Conn. Waste-valve-operating mechanism. 1,678,102; July 24.
Brewer-Titchener Corporation. (See Higgins, George H., assignor.)
Breyer, Frank G. (See Singmaster, J. A., Breyer, and Bunce.)
Briesen, Fritz v., trustee. (See Terwilliger, Charles O., assignor.)
Brophy, James H., Deer Park, assignor of one-half to V. C. Emerick, Locke, Wash. Exterminating device for rats, squirrels, and other pests. 1,678,178; July 24.
Brotz, Frank G., Kohler, assignor to Kohler Company, Kohler, Wis. Swinging-spout valve. 1,678,377; July 24.
Brown and Sharpe Manufacturing Company. (See Graves, Benjamin P., assignor.)
Brown Company. (See Daw, Joseph, assignor.)
Brown Company. (See Richter, George A., assignor.)
Brown, Roy E., assignor of forty-nine per cent to P. C. Caffee, Portland, Oreg. Lock. 1,678,420; July 24.
Bruce, Alfred W., New York, N. Y. Frame for railroad vehicles. 1,678,323; July 24.
Bruce, Alfred W., New York, N. Y. Frame for railroad vehicles. 1,678,324; July 24.
Brucker, Henry, Newark, N. J., assignor to American Aluminum Ware Company. Spool. 1,677,051; July 24.
Brueck, Theodore M., assignor to Ilex Optical Company, Rochester, N. Y. Photographic shutter. 1,678,179; July 24.
Brumbaugh, Andrew K., assignor to The Autocar Company, Ardmore, Pa. Storage-battery container. 1,678,033; July 24.
Buckley, Edward H., Philadelphia, Pa. Tubular insulator. 1,678,054; July 24.
Budd, Edward G., Manufacturing Company, The. (See Ledwinka, Joseph, assignor.)
Budd, Howard L., Brooklyn, N. Y. Vase or similar article. Des. 75,825; July 24.
Buechler, Joseph C., Hague, N. Dak. Check-book clamp. 1,678,055; July 24.
Bunce, Earl H. (See Singmaster, J. A., Breyer, and Bunce.)
Burgess, George A., Waukegan, assignor to Chicago Hardware Foundry Company, North Chicago, Ill. Coin-controlled electric switch. 1,678,554; July 24.
Burmah Oil Company Limited, The. (See Moore, James, assignor.)
Burns, Katherine E., assignor to Franklin Simon & Company, Inc., New York, N. Y. Coat. Des. 75,826; July 24.

Bushnell, Charles S. (See Howe, W. K., and Bushnell.)
Butin, Emile A., and L. Girard, Lyon, France. Arrangement for directly reproducing on fabric the required pattern. 1,678,325; July 24.
Byrne, Kingston & Co. (See Carlston, William S., assignor.)
Byrnes, James H., Flushing, N. Y. Metal window. 1,677,952; July 24.
C. L. W. Patents Corporation. (See Wagner, Charles L., assignor.)
Cabral, Manuel T., Honolulu, Hawaii. Circuit closer for electric alarms. 1,678,555; July 24.
Caffee, Percy C. (See Brown, Roy E., assignor.)
Calafato, Gaetano, Westbury, N. Y. Radiocabinet or similar article. Des. 75,827; July 24.
California Almond Growers Exchange. (See Bailey, David R., assignor.)
California Cyanide Company. (See Poindexter, R. W., jr., and Dolley, assignors.)
Cameron, James A., assignor to Cameron Machine Company, Brooklyn, N. Y. Winding machine. 1,678,326; July 24.
Cameron Machine Company. (See Cameron, James A., assignor.)
Cameron Machine Company. (See Johnstone, Robert M., assignor.)
Campbell, Clarence J., Oakland, Calif. Cabinet. 1,678,378; July 24.
Campbell, Samuel, Charlottetown, Prince Edward Island, Canada. Implement for facilitating the handling of animals. 1,677,953; July 24.
Canfield, Albert H., Bridgeport, Conn. Rack for articles. Des. 75,828; July 24.
Carey-McFall Co. (See Reukauf, Edward, jr., assignor.)
Carlsen, Andrew E. (See Shadrick, Richard H., assignor.)
Carlsen, Einar F., Chicago, Ill. Automobile signal. 1,677,883; July 24.
Carlson, Carl E., and A. C. Grunwald, assignors to Precision Metal Workers, Chicago, Ill. Flowerpot. Des. 75,829; July 24.
Carlston, William S., Kokomo, Ind., assignor to Byrne, Kingston & Co. Regenerator manifold. 1,678,327; July 24.
Carr, Edward G., Milwaukee, Wis., assignor to The Lakewood Engineering Company, Lakewood, Ohio. Concrete-road machine. 1,678,624; July 24.
Carr, Richard H., and C. B. Watson, Columbus, Ohio, assignors to The Pure Oil Company, Chicago, Ill. Temperature controller for oil-separating towers. 1,678,328; July 24.
Carson, Harry Y., assignor to American Cast Iron Pipe Company, Birmingham, Ala. Well casing. 1,678,280; July 24.
Case, L. E., Inc. (See Deffebaugh, Mark A., assignor.)
Cassaday, Ernest S. (See Larrabee, B. G., Root, and Cassaday.)
Caverly, Harry C., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,678,103; July 24.
Central Electric Tool Company. (See Weyandt, Carl S., assignor.)
Centre Lighting Fixture Mfg. Co., The. (See Novin, Joseph, assignor.)
Chaffee, Edward F., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Combined sash holder and starter. 1,678,243; July 24.
Chambers, Howard E., Los Angeles, Calif. Adjustable helmet and goggles. 1,678,208; July 24.
Chandler, Charles K., Headquarters of The Royal Air Force, India. Telegraphic and telephonic receiving circuits. 1,677,885; July 24.
Chapman, George A., Forest Hills, and E. W. Wilkinson, Queens Village, assignors to Minerals Separation North American Corporation, New York, N. Y. Coal briquette and making it. 1,678,379; July 24.
Chemical Works. (See Billeter, O., Rothlin, and Peyer, assignors.)
Cheney, Byron M., Chicago, Ill. Rail anchor. 1,678,461; July 24.
Chellew Manufacturing Company. (See Bliss, Chester T., assignor.)
Chicago Card Board Company. (See Ziemmerman, Henry, assignor.)
Chicago Hardware Foundry Company. (See Burgess, George A., assignor.)
Chuse, Harry A., assignor, by mesne assignments, to Mattoon Engine Works, Mattoon, Ill. Uniflow engine. 1,678,209; July 24.
Clarke, William H., and B. G. Cook, Lakewood, Ohio. Pick-up vehicle body and method of handling goods. 1,678,329; July 24.
Cleary, Roy L., Kerlin, Ark. Shaving combination. 1,677,954; July 24.
Cline Electric Manufacturing Company. (See Dresser, C. A., and Hammer, assignors.)
Clyne, Robert G., St. Louis, Mo. Container and producing the same. 1,678,330; July 24.
Cochrane Corporation. (See Gibson, George H., assignor.)
Cole, Eaton, Eureka Springs, Ark. Match-dispensing device. 1,678,281; July 24.
Cole, T. Bert. (See Herron, George A., assignor.)
Cole, Raul F., Mount Vernon, Ohio. Apparatus for drawing sheet glass. 1,678,104; July 24.
Coleman Lamp and Stove Co., The. (See Coleman, William C., assignor.)
Coleman, William C., assignor to Coleman Lamp and Stove Co., Wichita, Kans. Priming device for hydrocarbon burners. 1,678,057; July 24.
Coleman, William C., Wichita, Kans. Liquid-hydrocarbon burner. 1,678,058; July 24.
Colgin, Saladine E., Dallas, Tex. Making a meat curative. 1,678,056; July 24.
Commercial Shearing and Stamping Company, The. (See Proctor, R. V., and Schaab, assignors.)
Commonwealth Steel Company. (See Pflager, Harry M., assignor.)
Comstock-Castle Stove Company. (See Sandell, Joseph H., assignor.)
Concealed Door Check Co. (See Eastman, Floyd K., assignor.)
Conlon, Thomas A., Silver Springs, Md. Cart. 1,678,585; July 24.
Connelly, James A., Hamilton, Ohio. Joint packing. 1,677,884; July 24.
Connersville Blower Co., The. (See Benesh, Matthew E., assignor.)
Connors, Clarence A., assignor of one-third to F. McKnight, Detroit, Mich. Combination fan. 1,677,888; July 24.
Conover, Courtney, Crafton, assignor to The Selden Company, Pittsburgh, Pa. Plastic composition. 1,678,105; July 24.
Consolidated Instrument Company of America. (See Leopold, Joseph, assignor.)
Continuous Train Control Corporation. (See Coop, W. L., and Stone, assignors.)
Cook, Albert E., Evanston, assignor to C. B. Cook, Chicago, Ill. Auto marine vehicle. 1,678,180; July 24.
Cook, Byron G. (See Clarke, W. H., and Cook.)
Cook, Charles B. (See Cook, Albert E., assignor.)
Coop, William L., and C. B. Stone, assignors to Continuous Train Control Corporation, Detroit, Mich. Air-brake-control mechanism. 1,678,106; July 24.
Cooper, Jehangir M., Bombay, India. Printing process and apparatus therefor. 1,678,497; July 24.
Cooper, Thomas L. R., London, England. Dynamo-electric machine. 1,678,380; July 24.
Copson, Ernest D., Linwood, assignor to The Viscose Company, Marcus Hook, Pa. Pump. 1,678,556; July 24.
Corbilin, Henri, Paris, France. Refrigerator car. 1,678,421; July 24.
Coryell, Charles N., New York, N. Y. Article holder. 1,678,282; July 24.
Cotta Transmission Corporation. (See Tritz, John H., assignor.)
Covert, James D., Montclair, N. J. Smoke-chamber lining. 1,677,914; July 24.
Crafts, Curtis S., Oak Park, Ill., assignor to Goss Printing Press Company. Quick lock-up for plate cylinders. 1,677,955; July 24.
Cramer, Thomas M., Long Beach, Calif., assignor to Pacific Coast Borax Company. Production of commercial borax from $Na_2O.2B_2O_3.4H_2O$. 1,678,381; July 24.
Crane, Frank G., Montague, assignor of one-half to Detroit Sulphite Pulp & Paper Co., Detroit, Mich. Slitting machine. 1,677,915; July 24.
Cravey, James B., and P. R. Pierson, Montogemery, Ala. Gasoline-dispensing device. 1,678,586; July 24.
Crawford, Alfred, assignor to Crawford Manufacturing Company, New Brunswick, N. J. Trip mechanism for knitting-machine stop motions. 1,678,557; July 24.
Crawford Manufacturing Company. (See Crawford, Alfred, assignor.)
Crayssac, Léon, Cette, France. Press for the quick drying and glazing of photographic prints. 1,677,916; July 24.
Crimmel, Alvie C., Hartford City, Ind. Vitreous drawer pull. 1,678,498; July 24.
Cromer, Harry I., Oak Park, Ill. Reaping or harvesting machine for harvesting hemp or similar stalks or crops. 1,678,134; July 24.
Crosman, G. A., & Sons Co. (See Crosman G. L., and Nason, assignors.)
Crosman, George L., and A. P. Nason, Portland, assignor to G. A. Crosman & Sons Co., Deering Junction, Portland, Me. Snow scoop or shovel. 1,678,135; July 24.
Cucinotto, Francesco, New York, N. Y. Game apparatus. 1,678,462; July 24.
Cumpston, Frederick B., Blooming Grove, Tex. Cotton-boll breaker and cleaner. 1,678,210; July 24.
Cunniff, Edward A., Waltham, assignor to Draper Corporation. Hopedale, Mass. Feeler mechanism for looms. 1,678,587; July 24.
Curtis, James B. (See Curtis, Walter V. and J. B.)
Curtis, Walter V., Davenport, Iowa, and J. B. Curtis, Chicago, Ill. Hog ring and the like. 1,678,558; July 24.
Cutler-Hammer Mfg. Co., The. (See Wiegand, Henry J., assignor.)
Daradice, Michael. (See Nagy, Louis, assignor.)
D'Ardenne, Walter H., Philadelphia, Pa. Heater. 1,678,059; July 24.
Davidson, George F., Shortlands, England. Pneumatic tire. 1,678,211; July 24.
Davis, Florence P., executrix. (See Horne, John F.)

Davis, Robert W., Ozone Park, assignor to himself and Z. Littman, New York, N. Y. Resilient support. 1,678,034; July 24.

Davis, Robert W., assignor to himself and Z. Littman, New York, N. Y. Vehicle spring. 1,678,035; July 24.

Davis, Sewell, and A. La Fon, assignors to Polly Wiggin, Inc., Newark, N. J. Can opener. 1,678,244; July 24.

Davis, Walter T., assignor to Wheeling Stamping Company, Wheeling, W. Va. Cap-applying means for tube-working machines. 1,678,463; July 24.

Daw, Joseph, Quebec, Canada, assignor to Brown Company, Berlin, N. H. Material-handling device. 1,678,382; July 24.

Dean, Samuel W., Houlton, Me., assignor to American Telephone and Telegraph Company. Broadside antenna array. 1,677,956; July 24.

Dearsley, Irwin E., assignor to Walker Manufacturing Company, Racine, Wis. Lifting jack. Re17,050; July 24.

Delbaugh, Mark A., assignor to L. E. Case, Inc., Schenectady, N. Y. Combined table and casing for a washing machine or the like. Des. 75,830; July 24.

De Gerson, Francis, born R. J. Berthier, Paris, France. Bottle utilizable as a vase by turning it over. 1,678,588; July 24.

Delco-Light Company. (See Kellholtz, Lester S., assignor.)

Dennis, Walcott. (See Schlitt, J. L., and Dennis.)

Desautels, Charles H., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Apparatus for cutting rubber sheets. 1,678,036; July 24.

Despard, Victor R., and H. C. R. Popp, assignors to McGill Manufacturing Company, Valparaiso, Ind. Electric cluster lamp body and shade holder. 1,678,331; July 24.

Detroit Sulphite Pulp & Paper Co. (See Crane, Frank G., assignor.)

Deutsch, Leonhard, and I. Thorn, Vienna, Austria, assignors to The Selden Company, Pittsburgh, Pa. Producing light-colored and color-fast, hard, infusible, and insoluble products of condensation of phenols and aldehydes. 1,678,107; July 24.

Deutsch, Leonhard, and I. Thorn, Vienna, Austria, assignors to The Selden Company, Pittsburgh, Pa. Hardening the products of condensation of phenols and aldehydes. 1,678,108; July 24.

Devine, Joseph P., Buffalo, N. Y. Drying materials. 1,678,559; July 24.

Dewey, Clarence L., Elkhart, Ind., assignor to Outing Manufacturing Co. Stringed musical instrument. 1,678,136; July 24.

Dickinson, William E., and J. J. Morgan, New Haven, Conn. Car-unloading apparatus. 1,678,245; July 24.

Diebold, Pierre, Nancy, France. Ironing steam press. 1,678,464; July 24.

Diebold, Pierre, Nancy, France. Ironing steam press. 1,678,465; July 24.

Differ, George, Hamilton, Mont. Rotary box stamp. 1,678,589; July 24.

Dillon, James E., Masontown, Pa. Protective device for electrically-operated mining machines, and the like. 1,678,283; July 24.

Dixson, Harry, Des Moines, Iowa. Spring-roller assembly. 1,678,590; July 24.

Doll & Co. Aktiengesellschaft. (See Reiachl, Ludwig, assignor.)

Dolley, Paul T. (See Poindexter, R. W., jr., and Dolley.)

Domizi, David F., Cleveland, Ohio, assignor, by mesne assignments, to Relay Motor Products Corporation, Bridgeport, Conn. Motor-vehicle construction. 1,677,917; July 24.

Dorsey, Herbert G., Gloucester, and R. L. Williams, Newton, assignors to Submarine Signal Corporation, Boston, Mass. Apparatus for measuring distance. 1,678,560; July 24.

Douglas, Harry A., Bronson, Mich. Casing having light-transmitting closure. 1,678,137; July 24.

Douglas, Harry A., Bronson, Mich. Circuit connecter. 1,678,138; July 24.

Dow Chemical Company, The. (See Strosacker, C. J., and Kennedy, assignors.)

Drake, John L., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-producing apparatus. 1,678,060; July 24.

Draper Corporation. (See Cunniff, Edward A., assignor.)

Draper Corporation. (See Northrop, Jonas, assignor.)

Draper Corporation. (See Tebo, William A., assignor.)

Drayer, Samuel E., assignor to The Guide Motor Lamp Manufacturing Company, Cleveland, Ohio. Side lamp for automobiles. 1,678,332; July 24.

Dresser, Charles A., Greenburg, N. Y., and E. W. Hammer, South Orange, N. J., assignors to Cline Electric Manufacturing Company, Chicago, Ill. Tension device for newspaper-roll stands. 1,678,109; July 24.

Dugdill, John, Hazel Grove, near Stockport, England. Movable support for electric light, gas, and other purposes. 1,678,422; July 24.

Duhsel, Ferdinand, Denver, Colo. Dustpan. 1,678,284; July 24.

Duisenberg, Walter, Los Gatos, and J. H. Macartney, San Francisco, Calif. Combined mill, conveyer, drier, and classifier. 1,678,002; July 24.

Dunn, Edward L., East Orange, N. J., assignor to Otis Elevator Company, New York, N. Y. Leveling device for elevators. 1,678,423; July 24.

Dunn Manufacturing Co. (See Dunn, William H., assignor.)

Dunn, William G., Clarinda, Iowa. Awning bracket. 1,678,561; July 24.

Dunn, William H., assignor to Dunn Manufacturing Co., Chicago, Ill. Cleansing machine. 1,678,037; July 24.

Du Pont, E. I., de Nemours & Company. (See Lawrie, James W., assignor.)

Duquesne Steel Foundry Company. (See Troutman, William E., assignor.)

Durgin, Leon A., Danvers, Mass. Measuring and recording machine. 1,678,181; July 24.

Eagon, Lloyd L., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone system. 1,677,957; July 24.

Eastman, Floyd K., assignor to Concealed Door Check Co., Kokomo, Ind. Doorcheck. 1,678,499; July 24.

Eaton, Philip K., Olympia, Wash. Marking X-ray films. 1,678,038; July 24.

Eddins, Web M., Barnett, Miss. Combination trimming saw and slab kicker. 1,677,958; July 24.

Edens, Louis M., Cabool, Mo. Medicinal instrument. 1,678,562; July 24.

Edge Moor Iron Company. (See Bradford, Henry B., assignor.)

Edison Storage Battery Company. (See Payne, Paul D., assignor.)

Edison, Thomas A., Incorporated. (See Edison, Thomas A., assignor.)

Edison, Thomas A., Llewellyn Park, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Production of alkali-metal compounds from silicates containing them. 1,678,246; July 24.

Edmunds, Glenn E., assignor to The Bonney-Floyd Company, Columbus, Ohio. Mine car. 1,678,563; July 24.

Edwards, Clarence G., Los Angeles, Calif. Counterthrust pressure motor. 1,678,424; July 24.

Edwards, O. M., Company, The. (See Chaffee, Edward F., assignor.)

Eichwede, Heinz. (See Wagner, H., Eichwede, and Fischer.)

Eldred, Byron E., Kensington, N. Y. Aiding audition. 1,678,564; July 24.

Eldred, Byron E., New York, N. Y. Utilizing air waves for aural kinesitherapy. 1,678,565; July 24.

Electrolux Servel Corporation. (See Von Platen, B. C., and Munters, assignors.)

Electro Metallurgical Company. (See Mitchell, Walter M., assignor.)

Elliott-Fisher Company. (See Lentz, Lawrence E., assignor.)

Ellis, Russell S., Philadelphia, Pa. Concrete lamp stand. 1,678,500; July 24.

Ellis, Wilson R., Berkeley, Calif. Agitator. 1,678,425; July 24.

Emerick, Vincent C. (See Brophy, James H., assignor.)

Ericksen, John C., Falls City, Nebr. Fluid-pressure-control device. 1,677,959; July 24.

Erickson, Knute E., Portland, Oreg. Street traffic signal. Des. 75,831; July 24.

Ernst, Wilhelm E., Berlin-Schoneberg, Germany. Auxiliary combustion space in internal-combustion engines. 1,678,212; July 24.

Eskholme, John W., Glen Ridge, N. J. Door stop and latch. 1,677,960; July 24.

Estes, Marion S., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmitter for high-frequency sound signaling. 1,678,182; July 24.

Fahrbach, Ferdinand G., Pelham Manor, N. Y. Repair device for auto skid chains. 1,678,003; July 24.

Fahrenwald, Frank A., Chicago, Ill. Apparatus for testing abrasion resistance. 1,678,110; July 24.

Falkiner, Ralph S., Melbourne, Victoria, Australia. Cane-harvesting machine. 1,678,285; July 24.

Fay, Joseph G., Seattle, Wash. Governor. 1,677,961; July 24.

Feldman, Abraham G., Chicago, Ill. Nursery seat. 1,678,501; July 24.

Fentress, George E., Los Angeles, Calif. Band-wheel counterweight. 1,678,286; July 24.

Fentress, George E., Los Angeles, Calif. Belt tightener. 1,678,287; July 24.

Ferngren, Enoch T., assignor to The Owens Bottle Company, Toledo, Ohio. Feeding and shaping molten glass. 1,678,247; July 24.

Ferris, William S., Elkhart, Ind. Chair. 1,678,004; July 24.

Field, Herbert D., assignor of one-half to R. C. McCrystal, Los Angeles, Calif. Carton knock-out. 1,678,426; July 24.

Figge, Carroll C., Chicago, Ill. Roof and shingle securing means. 1,678,333; July 24.

Finley, Thomas M., St. Louis, Mo. Flying machine. 1,677,962; July 24.

Firsching, Joseph A., Utica, N. Y. Drying machine. 1,678,383; July 24.

Fischer, Erich. (See Wagner, H., Eichwede, and Fischer.)

Fischer, Frank F., Oklahoma City, Okla. Memorial grave marker. Des. 75,832; July 24.

Fischer, Oskar, Berlin-Friedenau, Germany, assignor to N. V. Machina Maatschappij vor Handel en Industrie, Amsterdam, the Netherlands. Keyboard for typewriting machines. 1,678,334; July 24.

Fisher, Garfield W. (See Jones, L. S., Fisher, and Henrikson.)

Fisk Rubber Company, The. (See Desautels, Charles H., assignor.)

Fisk Rubber Company, The. (See Hansen, Raymond, assignor.)

Fisk Rubber Company, The. (See Hennessy, Daniel E., assignor.)

Fisk Rubber Company, The. (See Melvin, Ernest W., assignor.)

Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)

Flanigan, E. B., Incorporated. (See Flanigan, Edwin B., assignor.)

Flanigan, Edwin B., assignor to E. B. Flanigan, Incorporated, Wilkes-Barre, Pa. Vehicle brake. 1,678,427; July 24.

Fleming, Samuel N., Hopkinsville, Ky. Accessory for radio signal receivers. 1,678,288; July 24.

Ford, Bruce, Philadelphia, Pa. Treatment of wood and product thereof. 1,677,963; July 24.

Forney, Arthur, Baltimore, Md. Check-controlled vending machine. 1,678,502; July 24.

Fortier, Charles L., assignor to Johnson Service Company, Milwaukee, Wis. Temperature regulation. 1,678,213; July 24.

Foster Wheeler Corporation. (See Keenan, Walter F., jr., assignor.)

Foster Wheeler Corporation. (See Nellis, Joseph J., assignor.)

Found, Ernest E., Hillsdale, Mich. Stair-rod holder. Des. 75,833; July 24.

Fourneau, Ernest, Paris, France, assignor to Les Etablissements Poulenc Freres. Salts of 3-acetylamino-4-hydroxyphenylarsenic acid and preparing the same. 1,677,964; July 24.

Fowler, Edward, and J. V. Lewis, Chattanooga, Tenn. Insecticide distributor. 1,678,061; July 24.

Fowler, William S., assignor to Hampden Glazed Paper & Card Company, Holyoke, Mass. Cover paper or the like. Des. 75,834; July 24.

Franco, Attilio, Milan, Italy. Articulated coupling for rigid-frame units. 1,678,428; July 24.

Frank, Harry S., Brooklyn, N. Y. Piston ring. 1,678,248; July 24.

Franklin Simon & Company. (See Burns, Katherine E., assignor.)

Frantz, Walter A., Cleveland, Ohio. Suction cleaner. 1,678,111; July 24.

Frasca, Philip. (See Martino, N., Frasca, and Oster.)

Frederics, E., Inc. (See Frederics, Ernest O., assignor.)

Frederics, Ernest O., assignor to E. Frederics, Inc., New York N. Y. Fixture. 1,678,249; July 24.

Freeland, F. B., et al. (See Weston, Charles W., assignor.)

French Battery Company. (See Meisekothen, Edwin E., assignor.)

Friedrich, Robert, Philadephia, Pa. Hosiery. Des. 75,835; July 24.

Friendly, Herbert M., Chicago, Ill. Automatic telephone system. 1,678,503; July 24.

Frigidaire Corporation. (See King, J. G., and Hull, assignors.)

Friis, Harald T., Cliftwood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signal reception. 1,678,183; July 24.

Frost, Albert N., Vancouver, British Columbia, Canada. Can opener. 1,678,112; July 24.

Fruit Belt Preserving Company. (See Bartleson, Alfred F., assignor.)

Fruwirth, Arthur, Brooklyn, N. Y. Producing designs for reproduction. 1,677,965; July 24.

Fulweiler, Walter H., Wallingford, assignor to The U. G. I. Contracting Company, Philadelphia, Pa. Quantitative determination of naphthalene in illuminating gas. 1,678,591; July 24.

Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method of and apparatus for softening shoe materials. 1,678,139; July 24.

Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for heating and softening shoes and parts thereof. 1,678,140; July 24.

Fur Guide Machine Corporation. (See Ross, Harry, assignor.)

Furst, John K. (See Allen, L. E., and Furst.)

Gairing, Emil, Detroit, Mich. Universal machine-shop fixture. 1,677,889; July 24.

Gallant, Robert M., assignor of one-half to W. S. Berry, Boston, Mass. Stocking protector. 1,678,566; July 24.

Gallistel, Clarence P., assignor to Mid-West Box Company, Chicago, Ill. Shipping box for articles. 1,677,918; July 24.

Gams, Alphonse, and P. Scheidegger, Basel, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Organic gold compounds and making same. 1,678,429; July 24.

Garabrant, Joseph E. (See Herbert, F. D., Kraemer, and Garabrant.)

Garey, John P., Elmira Heights, N. Y. Spinning frame. 1,678,039; July 24.

Garlock Packing Company, The. (See Hubbard, Cecil R., assignor.)

Garner, James B., and G. B. Leyden, Pittsburgh, Pa., assignors to Standard Oil Development Company. Treating oil wells. 1,678,592; July 24.

Gaston, Ralph M., assignor to Mall Tool Company, Chicago, Ill. Flexible shaft. 1,678,335; July 24.

General Electric Company. (See Bennett, Ralph S., assignor.)

General Fuel Briquette Corporation, The. (See Stillman, Albert L., assignor.)

General Railway Signal Company. (See Howe, Winthrop K., assignor.)

General Railway Signal Company. (See Howe, W. K., and Bushnell, assignors.)

General Railway Signal Company. (See Loftin, Edward H., assignor.)

General Railway Signal Company. (See Preston, Neil D., assignor.)

General Railway Signal Company. (See Ross, Oscar A., assignor.)

General Rubber Company. (See Smith, Omar H., assignor.)

General Zeolite Company. (See Green, Walter H., assignor.)

Gerrard Company, The. (See Weeks, Charles S., assignor.)

Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Motor-starting switch. 1,678,336; July 24.

Gibson, George H., Montclair, assignor to Cochrane Corporation, Philadelphia, Pa. Heating, deaerating, and evaporating water. 1,677,890; July 24.

Gibson, Incorporated. (See Altermatt, George, assignor.)

Giese, Richard S., Sewickley Heights Township, Allegheny County, Pa. Glass tumbler. Des. 75,836; July 24.

Gilbert, John J., Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Submarine signaling. 1,678,184; July 24.

Gill, John W., Glendale, Calif. Wall-bracket lighting fixture. Des. 75,837; July 24.

Girard, Louis. (See Butin, E. A., and Girard.)

Glover, Charles W., Pinner, England. Building construction. 1,678,504; July 24.

Goldhammer, Leo, assignor to A. Hch. Rietzschel G. m. b. H., Munich, Germany. Spool holder for film cameras. 1,678,430; July 24.

Gousett, Robert R., assignor of one-half to A. J. Smith, one-eighth to W. D. Spencer, and one thirty-second to V. V. Ullom, Los Angeles, Calif. Time-controlled circuit controller. 1,678,217; July 24.

Goodrich, B. F., Company, The. (See Livermore, George A., assignor.)

Goodrich, Chauncey M., Windsor, Ontario, Canada. Overhead support. 1,678,431; July 24.

Goss Printing Press Company. (See Crafts, Curtis S., assignor.)

Graham, Alfred, et al., executor. (See Graham, Edward A.)

Graham Amplion Limited. (See Graham, Edward A., assignor.)

Graham, Edward A., deceased, Brockley, London; M. Graham, executrix, Beckenham, and A. Graham, executor, Forest Hills, London, assignors to Graham Amplion Limited, London, England. Acoustic amplifier and radiator. 1,678,214; July 24.

Graham, Maria, et al., executrix. (See Graham, Edward A.)

Grant, John. (See Phipps, John T., assignor.)

Grasselli Dyestuff Corporation. (See Laska, L., and Zletscher, assignors.)

Grasselli Dyestuff Corporation. (See Wagner, H., Eichwede, and Fischer, assignors.)

Grasselli Dyestuff Corporation. (See Winterhalder, Wilhelm, assignor.)

Graves, Benjamin P., Cranston, R. I., assignor to Brown and Sharpe Manufacturing Company. Variable-speed driving mechanism. 1,678,384; July 24.

Greathouse, Josephine A. (See Winsboro, William A.)

Green, Estill I., East Orange, N. J., assignor to American Telephone and Telegraph Company. Carrier signaling system. 1,677,966; July 24.

Green, Walter H., assignor to General Zeolite Company, Chicago, Ill. Water-softening apparatus. 1,677,891; July 24.

Greene, Albert C., Willesden Junction, London, England. Marker. 1,678,215; July 24.

Greenhouse, Martin E., Philadelphia, Pa. Shock absorber for vehicles. 1,678,040; July 24.

Greer, Benjamin J., assignor of one-half to M. A. Jackson, Athens, Tex. Wrench. 1,678,216; July 24.

Gregory, Eugene, Ann Arbor, Mich. Finger-tip pencil. 1,678,505; July 24.

Griffin, Elbert, Terre Haute, Ind. Panel for furniture. Des. 75,839; July 24.

Griffin, Gordon, et al. (See Weston, Charles W., assignor.)

Griffith, Graves, San Francisco, Calif. Range finder. 1,678,062; July 24.

Griffiths, William U., Philadelphia, Pa. Drain board. 1,678,041; July 24.

Grill, Philip, assignor to the firm Grill & Schwartz, New York, N. Y. Finger ring. Des. 75,838; July 24.
Grill & Schwartz. (See Grill, Philip, assignor.)
Grothey, Ivan W., Laconia, N. H., assignor to Scott & Williams, Incorporated, New York, N. Y. Circular-knitting machine. 1,678,385; July 24.
Grothey, Ivan W., Laconia, N. H., assignor to Scott & Williams, Incorporated, New York, N. Y. Drop-stitch mechanism for knitting machines. 1,678,386; July 24.
Grunwald, Albert C. (See Carlson, C. E., and Grunwald.)
Gruss, Roland M., San Francisco, Calif. Antiglare shield and making the same. 1,678,218; July 24.
Guide Motor Lamp Manufacturing Company, The. (See Drayer, Samuel E., assignor.)
Guillet, Albert M., Charlotte, N. C. Roll rack. 1,678,506; July 24.
Gunckel, Zenas W., Guthrie, Okla. Foot-rest attachment for closets. 1,678,466; July 24.
Gustafson, Carl A., assignor to Russell Grader Manufacturing Co., Minneapolis, Minn. Road-maintenance machine. 1,678,113; July 24.
Gustafson, Carl A., assignor to Russel-Grader Manufacturing Company, Minneapolis, Minn. Draft appliance. 1,678,114; July 24.
Hadermann, Frederick E., White Plains, assignor to University Manufacturing & Sales Co. Inc., New York, N. Y. Bracket for lighting fixtures or similar articles. Des. 75,840; July 24.
Hails, Edward T., Montgomery, Ala., assignor to Steiner Sales Company, Salt Lake City, Utah. Sanitary roll-towel cabinet. 1,678,220; July 24.
Hale, Robert M., assignor to Minerals Separation North American Corporation, New York, N. Y. Briquette and producing it. 1,678,387; July 24.
Halifax, Daniel F., Newark, N. J. Toaster. 1,678,337; July 24.
Hallerman, Frank W. A., St. Louis, Mo. Bail handle. 1,678,005; July 24.
Hallquist, Burt E. (See Hanson, E. C., and Hallquist.)
Hammer, Edwin W. (See Dresser, C. A., and Hammer.)
Hampden Glazed Paper & Card Company. (See Fowler, William S., assignor.)
Hancock, William G., and L. T. Stromswold, assignors to Magic Grain Dump Company, Minot, N. Dak. Wagon and truck dump. Re17,046; July 24.
Hanley Company. (See Hendryx, Dwight B., assignor.)
Hanon, Cyrus E., St. Louis, Mo. Gasoline gauge. 1,678,115; July 24.
Hansen, Albert, and M. J. Torp, Harlan, Iowa. Governor for explosive engines. 1,678,219; July 24.
Hansen, Albert E., Chicago, Ill. Radio receiving set cabinet. Des. 75,841; July 24.
Hansen, Christian, Woodcliff, N. J. Interchangeable sign or bulletin board. 1,677,919; July 24.
Hansen, John, Milltown, Mont. Fishing and retrieving otter. 1,678,593; July 24.
Hansen, Raymond, Cudahy, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Vulcanizing. 1,678,042; July 24.
Hanson, Edward C., and E. Hallquist, assignors to O. B. McClintock Company, Minneapolis, Minn. Entrance door for a depository. Des. 75,842; July 24.
Harper, Robert W., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,678,185; July 24.
Harrison, George D. (See Myers, W. L., and Harrison.)
Harrison, Henry C., Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Device for the transmission of mechanical vibratory energy. 1,678,116; July 24.
Harrison Radiator Corporation. (See Muir, Wellington, W., assignor.)
Hart, George H., West Hartford, Conn. Automatically-controlled switch. 1,678,507; July 24.
Hart, Gerald W., West Hartford, assignor to The Hart Manufacturing Company, Hartford, Conn. Electric switch. 1,678,508; July 24.
Hart Manufacturing Company, The. (See Hart, Gerald W., assignor.)
Harter, Charles, St. Louis, Mo. Carline reenforcement and load-lifting arrangement. 1,678,509; July 24.
Harter, Charles, St. Louis, Mo. Carline reenforcement and load-lifting arrangement. 1,678,510; July 24.
Hartford-Empire Company. (See Howard, George E., assignor.)
Hartmann, Anton V., assignor of one-half to V. H. Stevens, St. Paul, Minn. Variable-speed gearing. 1,678,289; July 24.
Haslacher, Alfred B., Farmington, Calif. Game device. 1,678,432; July 24.
Headley, Frederick H., Northfield, near Birmingham, England. Metallic chair, stool, seat, and the like. 1,678,006; July 24.
Heaphy, Edward T., et al. (See Marshall, Arthur J., assignor.)
Heaphy, William A., et al. (See Marshall, Arthur J., assignor.)
Hebb, Ammon W., New York, N. Y. Connecting device. 1,678,467; July 24.
Hebbard Manufacturing Company. (See Shackelford, Edward H., jr., assignor.)
Hedberg, Leonore F. C. C. W., née Ilse, Stockholm, Sweden. Hair-undulating apparatus. 1,678,433; July 24.
Heffernan, Edward, Gladesville, near Sydney, assignor to D. O. Y. Narme, Sydney, Australia. Stay for casement windows and the like. 1,678,511; July 24.
Heinz, John L. C., Chicago, Ill. Hinge means for casement windows. 1,678,512; July 24.
Hendey, George A., and R. A. Schatzel, Rome, N. Y., said Schatzel assignor to said Hendey. Reflector shield for headlights. 1,678,250; July 24.
Hendryx, Dwight B., assignor to Hanley Company, Bradford, Pa. Superstructure for tunnel-kiln cars. 1,678,251; July 24.
Hennessy, Daniel E., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Bead-forming device. 1,678,043; July 24.
Henrikson, Carl G. (See Jones, L. S., Fisher, and Henrikson.)
Herbert, Frederick D., Upper Montclair, N. J., W. L. Kraemer, Brooklyn, N. Y., and J. E. Garabrant, Bloomfield, N. J., assignors to Metal Edge Filter Corporation. Filter. 1,677,892; July 24.
Herchert, Edwin J., Guttenberg, Iowa. Cross member for nonskid chains. 1,678,063; July 24.
Herron, George A., assignor of 51 per cent to T. B. Cole, Ottawa, Ontario, Canada. Operating mechanism for whippers. 1,678,468; July 24.
Hewitt, Edward R., Midvale, N. J., and A. F. Masury, assignors to International Motor Company, New York, N. Y. Air filter. 1,678,044; July 24.
Heyman, Joseph J., assignor to Milano Furniture Company, Chicago, Ill. Table or similar article. Des. 75,843; July 24.
Heyman, Joseph J., assignor to Milano Furniture Company, Chicago, Ill. Table or similar article. Des. 75,844; July 24.
Heywood-Wakefield Company. (See Lloyd, Marshall B., assignor.)
Hickok Manufacturing Company. (See Beck, Alwin H., assignor).
Higgins, George H., assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Forging insulator caps. 1,678,594; July 24.
Hill, William H., Canton, Ohio. Fuel vaporizer. 1,678,045; July 24.
Hillery, John J., Boonton, N. J. Attachment for automotive vehicles. 1,678,007. July 24.
Hiltz, Harry B., New York, assignor, by mesne assignments, to Autosales Corporation, Long Island City, N. Y. Coin-controlled mechanism. 1,677,893; July 24.
Hindle, John H. and T., Haslingden, England. Loom for weaving. 1,678,434; July 24.
Hindle, Thomas. (See Hindle, John H. and T.)
Hines, Gail H., Lansing, Mich. Power-control device. 1,678,595; July 24.
Hird-Anderson Machinery Co. (See Hird, John B., Jr., assignor).
Hird, John B., Jr., Seattle, Wash., assignor to Hird-Anderson Machinery Co. Internal-combustion engine. 1,678,221; July 24.
Hoagland, Frank O., Bridgeport, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Adjustable snap gauge. 1,678,290; July 24.
Hoelzel, Herman E., Elmhurst, Ill. Pattern cutter. 1,678,186; July 24.
Hoerr, Louis A., assignor to Western Railway Equipment Company, St. Louis, Mo. Draft gear. 1,678,141; July 24.
Hoffman, Arthur M. A., Passaic, N. J. Stocking. Des. 75,846. July 24.
Holden, Joseph B., Canastota, N. Y. Combination floor and ceiling plate. 1,678,388; July 24.
Holden, William H. T., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, Radio signaling system. 1,677,967; July 24.
Holmes, Arthur, Newark, N. J., assignor to The Holmes Automobile Company, Canton, Ohio. Oil thermometer. 1,678,389; July 24.
Holmes Automobile Company, The. (See Holmes, Arthur, assignor.)
Holmes, Dyer B., Los Angeles, Calif. Maturation of fruit. 1,678,046; July 24.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Centrifugal cleaner. 1,678,338; July 24.
Holmes, William H., Mount Vernon, N. Y. Self-teaching device. 1,678,621; July 24.
Homberg, Felix, Barmen, Germany, assignor to American Nuplax Corporation, New York, N. Y. Molding albumen-containing masses. 1,678,117; July 24.
Hopkins, Arthur C., assignor to National-Standard Company, Niles, Mich. Lifting jack. 1,678,460; July 24.
Hopkins, James E., Denver, Colo. Apparatus and method for recovering precious metals. 1,678,142; July 24.
Horne, John F., deceased; F. P. Davis, executrix, Portland, Me. Clamping band. 1,678,622; July 24.
Horwitt, Paul H., assignor to Independent Paper Mills, Inc., Brooklyn, N. Y. Dispenser. 1,678,339; July 24.

Hosford, William F., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Working fibrous material. 1,678,390; July 24.
Horlid, Norman G., Longmont, Colo., assignor to Belden Manufacturing Company, Chicago, Ill. Ignition-timer wiring assembly. 1,678,118; July 24.
Howard, Charles L., Chicago, Ill., assignor to Western Railway Equipment Co., St. Louis, Mo. Floor clip. 1,678,143; July 24.
Howard, George E., Butler, Pa., assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn. Method and apparatus for feeding molten glass. 1,678,291; July 24.
Howe, James F., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Cable. 1,678,292; July 24.
Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,678,614; July 24.
Howe, Winthrop K., and C. S. Bushnell, assignors to General Railway Signal Company, Rochester, N. Y. Train control. 1,678,615; July 24.
Hower, John B., and J. V. Zeller, assignors to The Akron-Selle Company, Akron, Ohio. Liquid gauge. 1,678,513; July 24.
Howland, Joseph L., Cleveland, Ohio. Abrasive wheel. 1,678,596; July 24.
Höyer, Sigurd, Oslo, Norway. Permanent dam and weir. 1,678,515; July 24.
Hubbard, Cecil R., Newark, assignor to The Garlock Packing Company, Palmyra, N. Y. Making brushes. 1,677,920; July 24.
Hubbard, Henry L., Cleveland, Ohio. Automobile heater. 1,678,567; July 24.
Hubbell, Harvey, deceased, Bridgeport, Conn., L. E. Hubbell, executrix. Adjustable candle socket. 1,678,144; July 24.
Hubbell, Louie E., executrix. (See Hubbell, Harvey, assignor.)
Hudson Motor Car Company. (See Toncray, Millard H., assignor.)
Hufft, John M., Tuscon, Ariz. Rail joint. 1,678,391; July 24.
Hughes, William, Taunton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-applying device. 1,677,968; July 24.
Hulbert, William P., Middleburg, Va. Saddle girth. 1,678,514; July 24.
Hull, Harry B. (See King, J. G., and Hull.)
Hulme, George, Detroit, Mich. Signal device. 1,678,470; July 24.
Hummert, Robert H., assignor to The S. H. Thomson Manufacturing Company, Dayton, Ohio. Radiator cap. Des. 75,847; July 24.
Humphrey, Andrew, Glenlyon, Pa. Attachment for sound-reproducing machines. 1,678,568; July 24.
Hünnebeck, Emil M., Hosel, Germany. Self-contained latticework. 1,678,435; July 24.
Hunter, David E., assignor to Shaw-Walker Company, Muskegon, Mich. Heat resisting filing device. 1,678,471; July 24.
Hursh, Henry B., C. J. Anderson, and W. M. Bartels, Syracuse, N. Y. Bench leg. 1,678,392; July 24.
Hutnikow, Theodore, Brooklyn, N. Y., assignor to Voices Incorporated, Newark, N. J. Doll's voice. 1,678,222; July 24.
Hutnikow, Theodore, Brooklyn, N. Y., assignor to Voices Incorporated, Newark, N. J. Sound-producting device. 1,678,223; July 24.
Ilex Optical Company. (See Brueck, Theodore M., assignor.)
Ilex Optical Company. (See Klein, Rudolph, assignor.)
Illingworth, William H., Halifax, England. Electrical cut-out. 1,678,187; July 24.
Independent Paper Mills, Inc. (See Horwitt, Paul H., assignor.)
Indianapolis Pump & Tube Company. (See Noblitt, Quintin G., assignor.)
International Motor Company. (See Hewitt, E. R., and Masury, assignors.)
International Motor Company. (See Wirrer, Gottfried, assignor.)
J. & C. G. Bolinders Mek. Verkstads Aktiebolag. (See Liffiander, Johan O., assignor.)
Jackman, J. W., & Company Limited. (See Neville, Frederick W., assignor.)
Jackson, Joseph G., Chicago, Ill. Baking pan. 1,678,008; July 24.
Jackson, Merriott A. (See Greer, Benjamin J., assignor.)
Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler. 1,677,969; July 24.
Jaeger, Alphons O., Hamburg, N. Y., assignor to The Selden Company, Pittsburgh, Pa. Reviving catalysts. 1,678,626; July 24.
Jaeger, Alphons O., Hamburg, N. Y., assignor to The Selden Company, Pittsburgh, Pa. Regenerating catalysts. 1,678,627; July 24.
Janette, John T., Chicago, Ill. Safety device for fuel systems. 1,677,970; July 24.
Janssen, William, Lagrange, Tex. Dump truck. 1,678,569; July 24.
Johnson, Arthur L., Oak Park, Ill. Chair back. Des. 75,848; July 24.
Johnson & Johnson. (See Mathee, William H., assignor.)
Johnson, Jonas G., Baltimore, Md. Fireplace. Des. 75,849; July 24.
Johnson, Jules K., Pittsburgh, Pa. Vacuum cleaner. 1,677,921; July 24.
Johnson, Lane, assignor to United Engineering and Foundry Company, Pittsburgh, Pa. Reel. 1,678,472; July 24.
Johnson Service Company. (See Fortier, Charles L., assignor.)
Johnson, Waldo P., Chicago, Ill. Poultry-car ventilator. 1,678,393; July 24.
Johnston, Joseph C., Minneapolis, Minn. Motor using projectiles. 1,678,047; July 24.
Johnstone, Robert M., Roselle Park, N. J., assignor to Cameron Machine Company, Brooklyn, N. Y. Slitting machine. 1,678,340; July 24.
Jones, Aley E., Cuyahoga Falls, assignor to Lambert Tire & Rubber Co., Barberton, Ohio. Tire. Des. 75,850; July 24.
Jones, Louis S., G. W. Fisher, and C. G. Henrikson, assignors to The National Tile Company, Anderson, Ind. Machine for treating tile. 1,678,064; July 24.
Juengst, Fred W., assignor to Landers, Frary & Clark, New Britain, Conn. Cover for washing-machine tubs. 1,678,516; July 24.
Kaber, Joseph W., Cleveland, Ohio. Transfer sign. 1,678,341; July 24.
Kanarek, Jay H. (See Badler, Abraham A., assignor.)
Kappel, William J., assignor to M. and I. Sax, copartners doing business as Sax Bros., Milwaukee, Wis. Combination she flexor and stretcher. 1,678,394; July 24.
Karst, Howard C., Philadelphia, Pa. Thumb tack. 1,678,473; July 24.
Kastelic, Anthony, Richmond, Calif. Lead storage battery. 1,678,224; July 24.
Kasztler, John, Chicago, Ill. Hand-operated cutting implement. 1,677,922; July 24.
Kearney, Edward J., Wauwatosa, assignor to Kearney & Trecker Corporation, West Allis, Wis. Milling-machine-arbor drive and support. 1,678,048; July 24.
Kearney, Edward J., Wauwatosa, assignor to Kearney & Trecker Corporation, West Allis, Wis. Fluid-control device. 1,678,049; July 24.
Kearney, Edward J., Wauwatosa, assignor to Kearney & Trecker Corporation, West Allis, Wis. Adjustable fluid-control device. 1,678,050; July 24.
Kearney & Trecker Corporation. (See Kearney, Edward J., assignor.)
Keasbey & Mattison Company. (See Mattison, Richard V., assignor.)
Keenan, Walter F., jr., Pelham, assignor to Foster Wheeler Corporation, New York, N. Y. Superheater boiler. 1,677,894; July 24.
Kellholtz, Lester S., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Fuel-supply system. 1,677,895; July 24.
Kellems, Edgar E., Syracuse, N. Y. Self-loading trailer. 1,678,395; July 24.
Kellogg Switchboard and Supply Company. (See Nielsen, Emil J., assignor.)
Kelly, Mervin J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,678,145; July 24.
Kendall, Ira H., assignor to The Kendall Patents, Inc., Potsdam, N. Y. Can-washing device. 1,678,252; July 24.
Kendall Patents, Inc., The. (See Kendall, Ira H., assignor.)
Kendrick, Samuel W., and J. E. Martin, Great Falls, Mont. Shaving brush. 1,678,146; July 24.
Kennedy, Chester C. (See Strosacker, C. J., and Kennedy.)
Khoury, Harry E., New Bedford, Mas. Warp stop motion. 1,678,253; July 24.
Khoury, Harry E., New Bedford, Mass. Warp stop motion. 1,678,254; July 24.
Khoury, Harry E., New Bedford, Mass., assignor to Khoury Warp Stop Motion, Inc. Warp stop motion. 1,678,255; July 24.
Khoury Warp Stop Motion, Inc. (See Khoury, Harry E., assignor.)
Kienzle Uhrenfabriken Aktiengesellschaft. (See Riegger, Paul, assignor.)
Kilgore Foundry Co. (See Kilgore, Joseph D., assignor.)
Kilgore, Joseph D., assignor to Kilgore Foundry Co., Columbus, Ohio. Toy pistol. 1,678,597; July 24.
Kincade, Jerry W., Lethbridge, Alberta, Canada. Agitator for chemically purifying oil. 1,678,225; July 24.
King, Edgar B., Berenice, Idaho. Tool. 1,678,598; July 24.
King, Jesse G., and H. B. Hull, Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Valved fitting for refrigerating apparatus. 1,678,147; July 24.
Kinnear, Peter, Columbus, Ohio. Ice-cream holder. 1,678,436; July 24.
Klar, Max, Holzminden, Germany. Manufacturing white acetate of lead solutions or crystals out of pyroligneous acid. 1,678,256; July 24.
Klein, Rudolph, assignor to Ilex Optical Company, Rochester, N. Y. Photographic shutter. 1,678,119; July 24.

Kling, Fred E., Youngstown, and C. E. Malley, Springfield, Ohio. Furnace damper. 1,678,342; July 24.
Knowles, Carroll, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Gear grinder. 1,678,293; July 24.
Koch, Earl L., Pittsburgh, assignor to F. S. McCullough, Wilkinsburg, Pa. Radiotube and operating same. 1,677,896; July 24.
Koehring Company. (See Lichtenberg, Erich H., assignor.)
Koenig, Joseph, Manitowoc, Wis. Heater for hot-air engines. 1,678,396; July 24.
Koenig, Joseph, Manitowoc, assignor, to Metal Ware Corporation, Two Rivers, Wis. Toy electric engine. 1,678,397; July 24.
Kohler Company. (See Brotz, Frank G., assignor.)
Kootz, Arthur C. (See Schneider, William H., assignor.)
Koro Corporation. (See Kotchi, C., and Rode, assignors.)
Kotchi, Charles, Bay City, Mich., and F. J. Rode, Chicago, assignors, by mesne assignments, to Koro Corporation, Waukegan, Ill. Apparatus for producing rods for welding. 1,678,148; July 24.
Kraemer, Waldo L. (See Herbert, F. D., Kraemer, and Garabrant.)
Kraft-Phenix Cheese Company. (See Robinson, Sanford K., assignor.)
Krause, Max, Chicago, Ill. Upholstery construction. 1,678,474; July 24.
Kretzer, Charles D., Portland, Oreg. Plow. 1,678,343; July 24.
Krüssmann, Hermann. (See Petersen, F., and Krüssmann.)
Küttner, Firm Fr. (See Wagner, Albert, assignor.)
La Fon, Alphonse. (See Davis, S., and La Fon.)
Lakewood Engineering Company, The. (See Carr, Edward G., assignor.)
Lamb, Carl J., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine. 1,678,065; July 24.
Lamb, Carl J., Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company. Turbine-cooling means. 1,678,066; July 24.
Lamb, Carl J., Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company. Turbine cooling means. 1,678,067; July 24.
Lamb, Frederick B., London, assignor to Roadless Traction, Limited, Hounslow, Middlesex, England. Endless track for vehicles. 1,678,149; July 24.
Lambert, John W., Birmingham, Ala. Key-controlled operating mechanism. 1,678,491; July 24.
Lambert, John W., Birmingham, Ala. Electromagnetic attachment for key-controlled mechanisms. 1,678,492; July 24.
Lambert Tire & Rubber Co. (See Jones, Aley E., assignor.)
Landers, Frary & Clark. (See Juengst, Fred W., assignor.)
Lange, Edward C., Mill Valley, Calif. Fuel nozzle and control. 1,678,398; July 24.
Langley, Frank F., assignor to Universal Button Fastening & Button Co., Detroit, Mich. Button-affixing machine. 1,678,616; July 24.
Larrabee, Bert G., H. A. Root, and E. S. Cassaday, assignors to Portable Self-Serving Store Company, Houston, Tex. Vending-machine casing. Des. 75,851; July 24.
Larsen, Charles F., New York, N. Y. Cover for cans. 1,678,399; July 24.
Larsh, Everett P., Dayton, Ohio. Short-circuiting device for motor commutators. 1,678,517; July 24.
Laska, Leopold, and A. Zitscher, Offenbach-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Azo dyestuffs from 2-3-hydroxynaphthoic acid arylides and making the same. 1,678,599; July 24.
Lasker, William W., Brooklyn, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Analyzer unit for tabulating machines. 1,677,897; July 24.
La Vigne, Jerome R. (See Moore, R. A., and La Vigne.)
Lawrie, James W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of glycerin by fermentation. 1,678,150; July 24.
Ledwinka, Joseph, assignor to The Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile body. Re17,051; July 24.
Leigh, Itura R., Grantville, Ga. Toy representing a turkey gobbler. 1,678,226; July 24.
Leland Electric Company, The. (See Leland, George H., assignor.)
Leland, George H., assignor of one-half to The Leland Electric Company, Dayton, Ohio. Short-circuiting device for motors. 1,678,437; July 24.
Leland, George H., assignor of one-half to The Leland Electric Company, Dayton, Ohio. Motor mounting. 1,678,438; July 24.
Lelong, Lucien, Inc. (See Lelong, Lucien, assignor.)
Lelong, Lucien, Paris, France, assignor to Lucien Lelong, Inc., New York, N. Y. Bottle. Des. 75,852; July 24.
Lentz, Lawrence E., Harrisburg, Pa., assignor to Elliott-Fisher Company, New York, N. Y. Carbon roll and core for manifolding machines. 1,677,971; July 24.
Leonard-Rooke Company. (See Nicholas, Serril W., assignor.)
Leopold, Joseph, New York, N. Y., assignor to Consolidated Instrument Company of America. Straight-line indicating mechanism. 1,678,009; July 24.
Le Roy, Georges, Marly le Roi, France. Leaded glass-work. 1,678,439; July 24.
Les Etablissements Poulenc Freres. (See Fourneau, Ernest, assignor.)
Leveillee, Raphael, Esmond, R. I. Pattern-reversing mechanism. 1,678,121; July 24.
Levis, John H., jr., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Manual telephone system. 1,678,068. July 24.
Lewando, Charles, Brooklyn, N. Y. Antitheft device. 1,678,440; July 24.
Lewis Invisible Stitch Machine Company. (See Mueller, Charles W., assignor.)
Lewis, John V. (See Fowler, E., and Lewis.)
Lewis, William, Utica, N. Y. Spring cushion. 1,678,400; July 24.
Leyden, George B. (See Garner, J. B., and Leyden.)
Libbey-Owens Sheet Glass Company, The. (See Drake, John L., assignor.)
Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Crane attachment. 1,678,010; July 24.
Liffander, Johan O., assignor to J. & C. G. Bolinders Mek. Verkstads Aktiebolag, Stockholm, Sweden. Planing cutter. 1,677,898; July 24.
Light, Arthur H., Oakland, Calif. Piston structure. 1,678,151; July 24.
Liljenroth, Frans G., Stocksund, Sweden. Making a mixture of nitrogen and hydrogen. 1,678,518; July 24.
Lissfelt, Harry L., New York, N. Y., assignor to Macbeth-Evans Glass Company, Charlerol, Pa. Glass tumbler. Des. 75,853; July 24.
Littman, Zeno. (See Davis, Robert W., assignor.)
Livermore, George A., Joplin, Mo., assignor to The B. F. Goodrich Company, New York, N. Y. Blasting-cap protector. 1,678,257; July 24.
Lloyd, Marshall B., Menominee, Mich., assignor to Heywood-Wakefield Company, Boston, Mass. Reed-weaving machine. 1,678,011; July 24.
Lloyd, Marshall B., Menominee, Mich., assignor to Heywood-Wakefield Company, Boston, Mass. Reed-weaving machine. 1,678,012; July 24.
Loftin, Edward H., New York, assignor to General Railway Signal Company, Rochester, N. Y. Continuous inductive train-control system for railroads. 1,678,617; July 24.
Long, Charles A., jr., Philadelphia, Pa. Advertising and display device. 1,678,475; July 24.
Longcor, William H., assignor of one-half to O. Nialson, Dinuba, Calif. Fruit-gatherer's knife. 1,678,570; July 24.
Lower, Melvin S., Barberton, Ohio, assignor to Sun Rubber Company. Tip for hydrometer syringes. 1,678,600; July 24.
Lubonia, Sotir K. (See Mas, G. N., and Lubonia.)
Lucas, Jonathan, Savannah, Ga., assignor to Lucas-Lamborn Loom Corporation, New York, N. Y. Automatic stop mechanism for looms. 1,677,899; July 24.
Lucas-Lamborn Loom Corporation. (See Lucas, Jonathan, assignor.)
Luttrell, Nicholas, J., Liverpool, N. Y. Electrothermostatic switch. 1,678,401; July 24.
Lynch, George B., Tucson, Ariz. Figure wheeled toy. 1,678,519; July 24.
Macartney, John H. (See Duisenberg, W., and Macartney.)
Macbeth-Evans Glass Company. (See Lissfelt, Harry L., assignor.)
MacDonald, Clayton F., Asheville, N. C. Hydraulic vacuum cleaning device. 1,678,258; July 24.
Macway, Ignace, Brussels, Belgium. Lubricating device for axle boxes. 1,678,294; July 24.
Madvig, Gunnar, Oakland, Calif. Center ornament for drapery poles and rods. Des. 75,855; July 24.
Madvig, Gunnar, Oakland, Calif. Center ornament for drapery poles and rods. Des. 75,856; July 24.
Madvig, Gunnar, Oakland, Calif. Center ornament for drapery poles and rods. Des. 75,857; July 24.
Magic Grain Dump Company. (See Hancock, W. G., and Stromswold, assignors.)
Magni, Karl G., Linkoping, assignor to Aktiebolaget Baltic, Stockholm, Sweden. Audible speed indicator. 1,678,402; July 24.
Mahan, Frederic O., Eugene, Oreg. Overalls. Re17,047; July 24.
Malkin, Bernard A. (See Russell, A. N., and Malkin.)
Mall Tool Company. (See Gaston, Ralph M., assignor.)
Malley, Charles E. (See Kling, F. E., and Malley.)
Manly, Basil M., et al., executors. (See Manly, Charles M.)
Manly, Charle M., Richmond Hill, deceased; J. M., W. G., and B. M. Manly, executors, assignors to Overman Cushion Tire Company, Inc., New York, N. Y. Tire. 1,678,014; July 24.
Manly, John M., et al., executors. (See Manly, Charles M.)
Manly, William G., et al., executors (See Manly, Charles M.)
Manofsky, Herman E., Chicago, Ill. Line holder. 1,678,344; July 24.

Manson, Ray H., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Pawl-and-ratchet mechanism. 1,678,069; July 24.
Marbelite Corporation of America. (See Waggoner, Ralph, assignor.)
Marden, William L., assignor to Neptune Meter Company, New York, N. Y. Gasoline filling station and plate forboilers. 1,678,923; July 24.
Markatos, Spiros C., New York, N. Y. Supporting iron plate for boilers. 1,678,295; July 24.
Marks, Emanuel S., Brooklyn, N. Y. Electrically-illuminated artificial tree. 1,677,972; July 24.
Marquard, Frank F., Clairton, Pa. Quenching coke. 1,677,973; July 24.
Marshall, Arthur J., Dalton, assignor of one-fourth to E. T. Heaphy, Lee, and one-fourth to W. A. Heaphy, Pittsfield, Mass. Side light. 1,678,261; July 24.
Martin, Felix E., Los Angeles, Calif. Door controller. 1,678,122; July 24.
Martin, Harold G., Philadelphia, Pa., and M. H. Newgirg, assignors to Martin & Newgirg, Inc., Baltimore, Md. Bearing. 1,678,152; July 24.
Martin, Harold S., Garfield, Utah. Concentrating mixed sulphide ores. 1,678,259; July 24.
Martin, John E. (See Kendrick, S. W., and Martin.)
Martin, Karl, Rathenow, Germany. Price-indicating balance. 1,678,153; July 24.
Martin & Newgirg, Inc. (See Martin, H. G., and Newgirg, assignors.)
Martin, Rhetherford B., assignor to Minerals Separation North American Corporation, New York, N. Y. Production of oxidized products. 1,678,403; July 24.
Martino, Natale, P. Frasca, and J. E. Oster, New York, N. Y. Humidor. 1,678,260; July 24.
Mas, George N., and S. K. Lubonia, Washington, D. C. Bottle. Des. 75,854; July 24.
Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft. (See Wilhelm, Ottmar, assignor.)
Masury, Alfred F. (See Hewitt, E. R., and Masury.)
Mathee, William H., assignor to Johnson & Johnson, New Brunswick, N. J. Counter display appliance. Des. 75,858; July 24.
Mathes, Robert C., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric wave transmission. 1,678,188; July 24.
Mattison, Richard V., Ambler, Pa., assignor to Keasbey & Mattison Company. Millboard product and process. 1,678,345; July 24.
Mattison, Richard V., Ambler, Pa., assignor to Keasbey & Mattison Company. Millboard product and process. 1,678,346; July 24.
Mattoon Engine Works. (See Chuse, Harry A., assignor).
Maudsley, Reginald W., Coventry, England. Roof for closed vehicle bodies. 1,678,262; July 24.
Max Ams Chemical Engineering Corporation, The. (See Brenzinger, Julius, assignor.)
Maxmoor Corporation. (See Moore, Arlington, assignor.)
McCaffrey, Henry G., Galt, Ontario, Canada. Air-circulating device for air ducts. 1,677,974; July 24.
McCall, Arthur B., Springfield, Ill. Loud-speaker extension. Des. 75,859; July 24.
McClintock, O. B., Company. (See Hanson, E. C., and Hallquist, assignors.)
McClure, Ralph R., San Francisco, Calif. Method of and apparatus for lubricating friction surfaces. 1,678,347; July 24.
McCrystal, Robert C. (See Field, Herbert D., assignor.)
McCullough, Frederick S. (See Koch, Earl L., assignor.)
McCullough, Frederick S., Wilkinsburg, Pa. Degasifying radiotubes 1,677,900; July 24.
McGhee, George, Tollcross, Scotland. Brake for vehicles. 1,678,227; July 24.
McGill Manufacturing Company. (See Despard, V. R., and Popp, assignors.)
McGrew, Earl E., assignor to McGrew Machine Company, Lincoln, Nebr. Folding camp bed. 1,678,441; July 24.
McGrew Machine Company. (See McGrew, Earl E., assignor.)
McIntyre, Robert L., Toronto, Ontario, Canada. Structural-steel fabrication. 1,678,013; July 24.
McKee, Mierley T., Zanesville, Ohio. Cementing oil wells. 1,677,975; July 24.
McKnight, Frank. (See Connors, Clarence A., assignor.)
McLaughlin, William J., Owatonna, Minn. Delactating dairy products. 1,677,976; July 24.
McVey, Leland S., Fontana, Calif. Game apparatus. 1,678,189; July 24.
Meisekothen, Edwin E., assignor to French Battery Company, Madison, Wis. Dry battery and method of manufacture. 1,678,601; July 24.
Melvin, Ernest W., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Making inner tubes. 1,678,015; July 24.
Menasco, James H., Cushing, Okla. Checker's pad holder. 1,677,977; July 24.
Menasha Wooden Ware Company. (See Smith, Mowry, assignor.)
Menke, Robert F., Bessmay, Tex. Key-ring holder. 1,678,016; July 24.
Mensing, Carl E., Somerville, and R. E. Wiley, Plainfield, N. J. Special package of hydroscopic material. 1,678,154; July 24.

Menz, Gustav, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin-Siemensstadt, Germany. Runner blade for steam turbines. 1,678,263; July 24.
Mercer, Alexander, Wainfleet, Ontario, Canada. Fire safety device for dwellings and factories. 1,678,520; July 24.
Mesple, John L., San Francisco, Calif. Brake equalizer. 1,678,155; July 24.
Messer, George H., Newark, N. J. Oil-supply-controlling apparatus for liquid-fuel burners. 1,677,978; July 24.
Metal Edge Filter Corporation. (See Herbert, F. D., Kraemer, and Garabrant, assignors.)
Metal Ware Corporation. (See Koenig, Joseph, assignor.)
Metcalf, Howard H., assignor to Battle Creek Bread Wrapping Machine Co., Battle Creek, Mich. Wrapping machine. 1,677,924; July 24.
Metropolitan Lamp Co. (See Zweig, Joseph, assignor.)
Meyer, Friedrich W., Wismar, Germany. Purifying sugar solutions. 1,678,571; July 24.
Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Flex-testing machine. 1,678,017; July 24.
Mid-West Box Company. (See Gallistel, Clarence P., assignor).
Milano Furniture Company. (See Heyman, Joseph J., assignor).
Milk Oil Corporation, The. (See North, Charles E., assignor.)
Miller Company, The. (See Wolter, Herman H., assignor.)
Miller, Ernest B. (See Patrick, W. A., and Miller.)
Miller, Ernest B., assignor to The Silica Gel Corporation, Baltimore, Md. Apparatus for treating liquids to remove or recover substances therefrom. 1,678,299; July 24.
Minardo, Cosimo M. (See Bloom, Carl G., assignor.)
Minerals Separation North American Corporation. (See Chapman, G. A., and Wilkinson, assignors.)
Minerals Separation North American Corporation. (See Hale, Robert M., assignor.)
Minerals Separation North American Corporation. (See Martin, Rhetherford B., assignor.)
Minneapolis Honeywell Regulator Company. (See Shivers, Paul F., assignor.)
Mitchell, Joseph S., Chicago, Ill., assignor to Sullivan Machinery Company. Core drill. 1,677,925; July 24.
Mitchell, Walter M., Philadelphia, Pa., assignor, by mesne assignments, to Electro Metallurgical Company. Casting articles having chromium-alloy surfaces. 1,677,979; July 24.
Mitchell, William J., Waco, Tex. Display box. 1,678,521; July 24.
Monforts, Joseph, Munich-Gladbach, Germany. Fabric-shearing machine. 1,678,572; July 24.
Monitor Controller Company. (See Whittingham, George H., assignor.)
Monroe, Helen G., Santa Barbara, Calif. Pitcher. Des. 75,860; July 24.
Montelius, Carl O. J., Stockholm, Sweden. Rotary pump, motor, meter, or the like. 1,677,980; July 24.
Moore, Arlington, assignor, by mesne assignments, to Maxmoor Corporation, New York, N. Y. Combustion chamber for internal-combustion engines. 1,678,348; July 24.
Moore, Arlington, assignor, by mesne assignments, to Maxmoor Corporation, New York, N. Y. Antidetonating cylinder head for internal-combustion engines. 1,678,349; July 24.
Moore, George L., and J. R. Steele, Owego, N. Y. Rail anchor. 1,678,404; July 24.
Moore, James, Burmah, British India, assignor, to The Burmah Oil Company Limited, Glasgow, Scotland. Apparatus for cooling oil or other liquids. 1,678,070; July 24.
Moore, Roswell A., and J. R. La Vigne, assignors to Waterbury Buckle Co., Waterbury, Conn. Slide buckle. 1,678,264; July 24.
More, Glenn, and G. Oberg, assignors to The Blackstone Mfg. Co., Jamestown, N. Y. Gearing for washing machines. 1,678,018; July 24.
Morgan, Joseph J. (See Dickinson, W. E., and Morgan.)
Morris, Charles E., Newark, N. J. Circuit-closing device. 1,678,228; July 24.
Morris, Max C., Castlebellingham, Ireland. Carburetor. 1,677,926; July 24.
Mortimer, Louis A., Hohokus, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,678,190; July 24.
Mueller, Adolf, New York, N. Y. Sanitary seat cover. 1,678,296. July 24.
Mueller, Charles W., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Feeding mechanism for sewing machines. 1,678,191; July 24.
Muir, Wellington W., assignor to Harrison Radiator Corporation, Lockport, N. Y. Cooling internal-combustion engines. 1,677,981; July 24.
Müller, Heinrich, J., Schaffhausen, Switzerland. Adjustable couch and the like. 1,678,071; July 24.

Mulroney, John E., deceased, Chicago, Ill.; M. B. Mulroney, executrix, assignor to E. M. Brackett and F. Brackett, copartners doing business as The Brackett Stripping Machine Company, Topeka, Kans. Paper-cutting machine and gauge and carrier therefor. 1,678,156; July 24.

Mulroney, Margaret B., executrix. (See Mulroney, John E., assignor.)

Munden, Isaac W., Tampa, Fla. Wheel-aligning gauge. 1,678,157; July 24.

Munters, Carl G. (See Von Platen, B. C., and Munters.)

Murdoch, James B., Milwaukee, Wis. Store-shelving front unit. 1,678,522; July 24.

Myers, Harry S., Van, Pa. Hoist attachment for tractors. 1,678,158; July 24.

Myers, L. A., jr., Inc. (See Myers, W. L., and Harrison, assignors.)

Myers, William L., Newark, and G. D. Harrison, Belleville, assignors to L. A. Myers, jr., Inc., Newark, N. J. Button cover. 1,678,265; July 24.

N. V. Machina Maatschappij vor Handel en Industrie. (See Fischer, Oskar, assignor.)

Nagy, Louis, Hamilton, Ontario, Canada, assignor of three-tenths to M. Daradice. Aeroplane. 1,678,523; July 24.

Nakashima, Yozo, Brooklyn, N. Y. Amusement device. 1,678,573; July 24.

Narme, David O. Y. (See Heffernan, Edward, assignor.)

Nasmith, John W., assignor to Nasmith's Patents Limited, Manchester, England. Automatic feed device. 1,678,159; July 24.

Nasmith's Patents Limited. (See Nasmith, John W., assignor.)

Nason, Arthur P. (See Crosman, G. L., and Nason.)

National-Standard Company. (See Hopkins, Arthur C., assignor.)

National Supply Company of Delaware, The. (See Timbs, E., and Zerbe, assignors.)

National Tile Company, The. (See Jones, L. S., Fisher, and Henrikson, assignors.)

National Tube Company. (See Boax, John J., assignor.)

National Tube Company. (See Boax, J. J., and Robinoff, assignors.)

Neiman, Howard S. (See Roeger, Fred, assignor.)

Nelis, Joseph J., Brooklyn, assignor to Foster Wheeler Corporation, New York, N. Y. Marine steam-generating unit. 1,677,901; July 24.

Nelson, Ashton T., Wilton Junction, Iowa. Memorial building. Des. 75,862; July 24.

Neptune Meter Company. (See Marden, William L., assignor.)

Nerney, George E., assignor to Bay State Optical Company, Attleboro, Mass. Combined temple bar and end piece for ophthalmic mountings. Des. 75,861; July 24.

Neville, Frederick W., assignor to J. W. Jackman & Company Limited, Vulcan Works, Salford, England. Tumbling barrel. 1,678,072; July 24.

Newgirg, Michael H. (See Martin, H. G., and Newgirg.)

New Jersey Zinc Company, The. (See Singmaster, J. A., Breyer, and Bunce, assignors.)

Nialson, Ola. (See Longoor, William H., assignor.)

Nicholas, Serril W., assignor to Leonard-Rooke Company, Providence, R. I. Handle for a thermostatic valve. Des. 75,863; July 24.

Niederbayerische Cellulosewerke. (See Schneider, Adolf, assignor.)

Nielsen, Emil J., Oak Park, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Control button. 1,678,524; July 24.

Niemeyer, Henry, New York, N. Y. Photographic electric lamp. 1,678,574; July 24.

Niestradt, Ernest S., Denver, Colo., assignor to The Northwestern Terra Cotta Company, Chicago, Ill. Making molds for building blocks and the like. 1,678,266; July 24.

Niestradt, Ernest S., Denver, Colo., assignor to The Northwestern Terra Cotta Company, Chicago, Ill. Apparatus for making molds for building blocks. 1,678,267; July 24.

Niles-Bement-Pond Company. (See Randolph, Clifford F., assignor.)

Noblitt, Quintin G., assignor to Indianapolis Pump & Tube Company, Indianapolis, Ind. Automobile hood latch. 1,678,192; July 24.

Noller, Carl R. (See Adams, R., Noller, and Arvin.)

North, Charles E., Montclair, N. J., assignor to The Milk Oil Corporation, Wilmington, Del. Producing agglomerated cream. 1,678,476; July 24.

North, Charles E., Montclair, N. J., assignor to The Milk Oil Corporation, Wilmington, Del. Whipping or agitating cream. 1,678,477; July 24.

North, Charles E., Montclair, N. J., assignor to The Milk Oil Corporation, Wilmington, Del. Churning cream into butter fat and apparatus therefor. 1,678,478; July 24.

Northrop, Jonas, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Picker-stick-controlling means for looms. 1,678,268; July 24.

Northwestern Terra Cotta Company, The. (See Niestradt, Ernest S., assignor.)

Notz, Felix, and G. Royan, assignors to American Oven & Machine Company, Chicago, Ill. Dough-mixing machine. 1,678,193; July 24.

Notz, Felix, and G. Royan, assignor to American Oven & Machine Company, Chicago, Ill. Packing retainer for dough-mixing machines and the like. 1,678,194; July 24.

Novin, Joseph, assignor to The Centre Lighting Fixture Mfg. Co., New York, N. Y. Chandelier. Des. 75,864; July 24.

Oates, Norford L., Seattle, Wash. Calculating device. 1,678,019; July 24.

Oberg, Gunnard. (See More, G., and Oberg.)

O'Brien, Thomas, Sharon, and R. E. Zimmerman, assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa. Cleaning tin plate. 1,678,297; July 24.

Ohm, Albert J. D., Oak Park, assignor to R. Williamson & Company, Chicago, Ill. Lighting fixture. Des. 75,865; July 24.

Ohm, Albert J. D., Oak Park, assignor to R. Williamson & Company, Chicago, Ill. Lighting fixture. Des. 75,866; July 24.

Ohm, Albert J. D., Oak Park, assignor to R. Williamson & Company, Chicago, Ill. Lighting-fixture shade. Des. 75,867; July 24.

Oldfield, Guy G., Pullman, Wash. Toy construction outfit. 1,678,602; July 24.

Olsen, Einar J., Minneapolis, assignor of one-half to Sealy Mattress Company of Minnesota, St. Paul, Minn. Method and apparatus for cleaning and separating hair. 1,678,525; July 24.

Oppenheim, René, assignor to Société Anonyme le Carbone, Levallois-Perret, France. Rendering gas-absorbent bodies air-tight in liquids. 1,678,405; July 24.

Osborn, F. E., et al. (See Weston, Charles W., assignor.)

Oster, John E. (See Martino, N., Frasca, and Oster.)

Oswald, Arthur A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-wave-translation system. 1,678,160; July 24.

Otis Elevator Company. (See Anderson, John N., assignor.)

Otis Elevator Company. (See Dunn, Edward L., assignor.)

Ott, William N., Bloomfield, N. J. Electric clamp connecter. 1,678,350; July 24.

Outing Manufacturing Co. (See Dewey, Clarence L., assignor.)

Overman Cushion Tire Company. (See Manly, Charles M., assignor.)

Ovestrud, Melvin, assignor to Twin City Forge & Foundry Company, Stillwater, Minn. Mechanism for conveying and water cooling tie plates. 1,678,195; July 24.

Owens Bottle Company, The. (See Ferngren, Enoch T., assignor.)

Owens Bottle Company, The. (See Soubier, Leonard D., assignor.)

Pacific Coast Borax Company. (See Cramer, Thomas M., assignor.)

Packard Electric Company, The. (See Tuttle, George H., assignor.)

Palky, Frank J., Dorchester, Nebr. Timer. 1,678,161; July 24.

Palmer, William H., jr., Wayne, Pa. Combined packing case and tray for storage-battery cells. 1,677,982; July 24.

Paper and Textile Machinery Company, The. (See Russell, A. N., and Malkin, assignors.)

Paper Service Company, The. (See Rowe, William W., assignor.)

Pappert, Emanuel, New York, N. Y. Bridge for spectacles. Des. 75,868; July 24.

Parisi, Rino, Rimer, Pa. Curtain and operating means therefor. 1,678,229; July 24.

Parker, Ralzemond D., Brooklyn, N. Y., and D. B. Perry, Maplewood, N. J., assignors to American Telephone and Telegraph Company. Printing-telegraph exchange system. 1,677,983; July 24.

Parkhill, James, Flint, Mich. Vehicle spring. 1,678,526; July 24.

Parr, George T., St. Paul, Minn. Ice-cream disher. 1,677,984; July 24.

Patch, James A., Stoneham, Mass. Apparatus for removing oil from cod livers. 1,678,123; July 24.

Patrick, Walter A., Mount Washington, and E. B. Miller, assignors to The Silica Gel Corporation, Baltimore, Md. Refining oils and waxes. 1,678,298; July 24.

Patten, Ernest L. O., Lakewood, Ohio, and R. E. Patten, Detroit, Mich. Window. 1,678,479; July 24.

Patten, Raymond E. (See Patten, Ernest L. O. and R. E.)

Patterson, M. F., Dental Supply Co. (See Andresen, Lauritz B., assignor.)

Payne, Nora D., New York, N. Y. Device for projecting marbles and the like. 1,678,527; July 24.

Payne, Paul D., Irvington, assignor to Edison Storage Battery Company, West Orange, N. J. Electric safety lantern. 1,678,351; July 24.

Payton, James L., Jefferson City, Mo. Chain fastener. 1,678,575; July 24.

Pearl, Frank A., North Milwaukee, Wis. Permanent-wave clip. 1,678,352; July 24.

Pearl, Frank A., New York, N. Y. Sublimator. 1,678,442; July 24.

Pedersen, John D., Springfield, Mass. Cartridge. 1,678,162; July 24.

Peelle, Charles W., New York, assignor to The Peelle Company, Brooklyn, N. Y. Elevator door. 1,678,196; July 24.

Peelle Company, The. (See Peelle, Charles W., assignor.)

Penn Electric Switch Company. (See Penn, Ralph, assignor.)

Penn, Ralph, Des Moines, Iowa, assignor to Penn Electric Switch Company. Automatic electric switch. 1,678,603; July 24.

Pennsylvania Engineering Works. (See Allen, L. E., and Furst, assignors.)

Perin, Donald W., Brookline, Mass., assignor, by mesne assignments, to American Freight Service, Inc., New York, N. Y. Loading elevator. 1,678,528; July 24.

Perreault, Gedeon, Gardner, Mass. Screw driver. 1,678,124; July 24.

Perry, Donald B. (See Parker, R. D., and Perry.)

Perry, John W., Wheeling, W. Va. Sheet-heating furnace. 1,678,300; July 24.

Peters, Robert B., Brooklyn, N. Y. Steadying device for rotatable flag standards or poles. 1,678,529; July 24.

Petersen, Fritz, and H. Krüssmann, assignors to firm of Tischler & Leichter, Recklinghausen-Sud, Germany. Device for opening and closing attic windows. 1,678,020; July 24.

Peterson, Eugene, assignor to Western Electric Company, Incorporated, New York, N. Y. Modulation. 1,678,163; July 24.

Petrescu, Mary, Wheat Stone, Saskatchewan, Canada. Sleeping bag. 1,678,125; July 24.

Petry and Brandt. (See Brandt, Rudolph, assignor.)

Pettee, Allen D., Mount Vernon, N. Y. Cable-marking machine. 1,677,927; July 24.

Peyer, Julius. (See Billeter, O., Rothlin, and Peyer.)

Pfeiffer, Richard, Newark, N. J. Lightning-fixture guard. Des. 75,869; July 24.

Pflager, Harry M., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Locomotive structure. 1,677,985; July 24.

Phillipp, Ernest, Los Angeles, Calif. Card game. 1,678,576; July 24.

Phillips, Darius T., Chicago, Ill. Wheel. 1,678,530; July 24.

Phillips, William L., Houston, Tex. Machine for topping cans. 1,677,928; July 24.

Phipps, John T., Huntington Park, assignor to J. Grant, Los Angeles, Calif. Well apparatus. 1,678,073; July 24.

Phipps, John T., Huntington Park, assignor to J. Grant, Los Angeles, Calif. Well apparatus. 1,678,074; July 24.

Phipps, John T., assignor to J. Grant, Los Angeles, Calif. Expansible rotary underreamer. 1,678,075; July 24.

Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Cookstove. 1,678,269; July 24.

Pierson, Paul R. (See Cravey, J. B., and Pierson.)

Pippert, Willis J., Ridlonville, Me. Printing impression plate and making same. 1,677,929; July 24.

Poindexter, Robert W., jr., Los Angeles, and P. T. Dolley, Los Angeles County, Calif., assignors to California Cyanide Company, Incorporated, New York, N. Y. Apparatus for the production of alkali-metal cyanides. 1,677,986; July 24.

Pointon, John E., Peterborough, England, assignor to Baker Perkins Company Incorporated, New York, N. Y. Baking oven. 1,678,076; July 24.

Pokorny, Ermin, Prague, Czechoslovakia. Evaporating apparatus. 1,677,987; July 24.

Poleske, Ernest, and S., Manilla, Iowa. Grinding machine. 1,677,988; July 24.

Poleske, Sears. (See Poleske, Ernest and S.)

Pollak, Joseph. Tool and Stamping Company. (See Averill, William H., assignor.)

Pomeroy, Timothy C., Minneapolis, Minn. Lifting jack. 1,678,531; July 24.

Popp, Hans C. R. (See Despard, V. R., and Popp.)

Portable Self-Serving Store Company. (See Larabee, B. G., Root, and Cassady, assignors.)

Potomac Glass Company, The. (See Beam, Charles C., assignor.)

Potter, John C. (See Rorty, M. C., and Potter.)

Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Thermionic-tube circuits. 1,678,077; July 24.

Pratt & Whitney Company. (See Hoagland, Frank O., assignor.)

Pratt & Whitney Company. (See Knowles, Carroll, assignor.)

Pratt, Don W., Santa Monica, Calif. Direction signal. 1,678,197; July 24.

Preble Box Toe Co. (See Preble, George L., assignor.)

Preble, George L., assignor to Preble Box Toe Co., Lynn, Mass. Molded article and making same. 1,678,021; July 24.

Precision Metal Workers. (See Carlson, C. E., and Grunwald, assignors.)

Preece, Terence Q., Westbury, N. Y. Bit for horses. 1,678,532; July 24.

Pressley, Charles W., Hollywood, Calif. Golden harp piano. Des. 75,870; July 24.

Preston, Neil D., assignor to General Railway Signal Company, Rochester, N. Y. Adjustable trailing switch connection for railroads. 1,678,618; July 24.

Proctor, Robert V., and H. M. Schaab, assignors to The Commercial Shearing and Stamping Company, Youngstown, Ohio. Pallet. 1,678,443; July 24.

Progress Gesellschaft für Textilmaschinen mit beschränkter Haftung. (See Wolff, Herbert, assignor.)

Prosch, Floyd F., assignor of one-half to R. L. Wailine, McPherson, Kans. Pin-holding tool. 1,678,270; July 24.

Prosser, Henry G., Chicago, Ill., assignor to Bermingham and Prosser Co., Kalamazoo, Mich. Writing paper. 1,677,930; July 24.

Pure Oil Company, The. (See Carr, R. H., and Watson, assignors.

Pym, Arthur F., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Relasting machine. 1,678,164; July 24.

Pym, Arthur F., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of shoes. 1,678,165; July 24.

Quassowski, Paul, Berlin, assignor to Siemens & Halske Aktiengesellschaft Wernerwerk, Siemenstadt, near Berlin, Germany. Selecting device for telephone systems. 1,678,301; July 24.

Ramage, Alexander S., assignor to Bostaph Engineering Co., Detroit, Mich. Transforming light paraffin hydrocarbons into other products. 1,678,078; July 24.

Randolph, Clifford F., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Manually-controlled feeding mechanism for planers. 1,678,302; July 24.

Reach, William F., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Holder for golf clubs. 1,678,353; July 24.

Reed, Arthur W., Boston, Mass. Vehicle sanding mechanism. 1,678,804; July 24.

Reek, Earl, Oakland, Calif. Toy. Des. 75,871; July 24.

Rehder, Philip L., Bay View, Idaho. Fisherman's hat. 1,678,198; July 24.

Reischl, Ludwig, assignor to Doll & Co. Aktiengesellschaft, Nuremberg, Germany. Rail-joint connection for toy railways. 1,678,079; July 24.

Relay Motor Products Corporation. (See Domizi, David F., assignor.)

Remington Rand Inc. (See Lasker, William W., assignor.)

Rentn, Philip A., New York, N. Y. Electric car-control apparatus. 1,678,533; July 24.

Renz, Frederick, Brooklyn, N. Y. Cutting mechanism. 1,678,080; July 24.

Repay, Theodore, assignor to F. Spangenberg, Los Angeles, Calif. Separable fastener. 1,678,166; July 24.

Rettenmeyer, Francis X., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Oscillation generator. 1,678,199; July 24.

Reukauf, Edward, jr., assignor to Carey-McFall Co., Philadelphia, Pa. Securing draw sticks in window shades. 1,678,534; July 24.

Reynolds, Michael J., West Haven, assignor, by mesne assignments, to The Strouse Adler Company, New Haven, Conn. Reducing corset. 1,677,989; July 24.

Rice, Harold G., Chicago, Ill. Bottle capper. 1,678,303; July 24.

Rice, Louis W., assignor to Bernard Rice's Sons, Inc., New York, N. Y. Tray or similar article. Des. 75,872; July 24.

Rice, Louis W., assignor to Bernard Rice's Sons, Inc., New York, N. Y. Bottle or similar article. Des. 75,873; July 24.

Rice's, Bernard, Sons, Inc. (See Rice, Louis W., assignor.)

Richardson, Rodney G., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,678,304; July 24.

Richter, George A., assignor to Brown Company, Berlin, N. H. Production of high-alpha-cellulose fiber. 1,678,230; July 24.

Richter, George A., assignor to Brown Company, Berlin, N. H. Rayon manufacture. 1,678,354; July 24.

Riddell, W. A., Company. (See Stuckey, Robert B., assignor.)

Rieger, Paul, Villingen, Baden, assignor to Kienzle Uhrenfabriken Aktiengesellschaft, Schwenningen-on-the neckar, Germany. Fare indicator. 1,678,480; July 24.

Rimpler, Julius, Hoboken, N. J. Garment. 1,678,081; July 24.

Riser, Sarah, Philadelphia, Pa. Necktie. Des. 75,874; July 24.

Roadless Traction, Limited. (See Lamb, Frederick B., assignor.)

Robbins, Percy A., Highland Park, Ill. Speedometer. 1,677,990; July 24.

Roberts, Albert J., Warren, Ohio. Telephone receiver. 1,678,271; July 24.

Roberts, Charles C., Bridgeport, Conn. Cigarette-delivery box. 1,678,355. July 24.

Roberts, Joseph D., Springfield, Ill. Electric fuse. 1,678,481; July 24.

Robeson-Rochester Corporation. (See Schott, Howard H., assignor.)

Robinoff, Boris S. (See Boax, J. J., and Robinoff.)

Robinson, Joseph, Morristown, N. J. Automatic train-pipe connecter. 1,677,902; July 24.

Robinson, Morris, New York, N. Y. Machine for making artificial flowers. 1,678,482; July 24.
Robinson, Sanford K., assignor, by mesne assignments, to Kraft-Phenix Cheese Company, Chicago, Ill. Remaking cheese. 1,678,167; July 24.
Rockenfelder, Dewey E., Montpelier, Ohio. Tuning device. 1,678,535; July 24.
Rockford Novelty Furniture Company. (See Bergman, Johan O., assignor.)
Rode, Fredrich J. (See Kotchi C., and Rode.)
Roedl, George C., West Allis, Wis. Window-sash counterbalance. 1,678,444; July 24.
Roeger, Fred, Hasbrouck Heights, N. J., assignor of one-half to H. S. Neiman, New York, N. Y. Memorandum pad. 1,678,445; July 24.
Rone, Lucien E. (See Scott, H. T., and Rone.)
Root, Harry A. (See Larrabee, B. G., Root, and Cassaday.)
Rorty, Malcolm C., Paris, France, and J. C. Potter, Madrid, Spain, assignors, by, mesne assignments, to Western Electric Company, Incorporated, New York, N. Y. Telephone receiver. 1,678,200; July 24.
Roseman, Leo, Newark, N. J. Garment-fastener means. 1,677,903; July 24.
Roseman, Leo, Newark, N. J. Garmen-fastener tape. 1,677,904; July 24.
Ross, Harry, assignor to Fur Guide Machine Corporation, New York, N. Y. Needle plate for fur-sewing machines. 1,677,991; July 24.
Ross, Oscar A., Brooklyn, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system or the like. 1,678,577; July 24.
Rothlin, Ernst. (See Billeter, O., Rothlin, and Peyer.)
Rottenburg, Henry, Cambridge, England. Plug-and-socket connecter and the like. 1,678,082; July 24.
Rowe, William W., Cincinnati, assignor to The Paper Service Company, Lockland, Ohio. Car liner. 1,678,356; July 24.
Royan, George. (See Notz, F., and Royan.)
Rubber Service Laboratories Co., The. (See Scott, Winfield, assignor.)
Rue, Hans, Los Angeles, Calif. Butt extinguisher and tray. 1,678,406; July 24.
Ruggiero, John, New York, N. Y. Can-handling device and bearing. 1,678,483; July 24.
Rushmore, Samuel W., Plainfield, N. J. Lubricating and oil-separator apparatus. 1,678,272; July 24.
Rushmore, Samuel W., Plainfield, N. J. Cooling system. 1,678,484; July 24.
Russell, Andrew N., and B. A. Malkin, Lachine, Quebec, Canada, assignors to The Paper and Textile Machinery Company, Sandusky, Ohio. Suction roll. 1,678,083; July 24.
Russell Grader Manufacturing Co. (See Gustafson, Carl A., assignor.)
Russell, Samuel G., and P. Workman, jr., assignors to Shakespeare Company, Kalamazoo, Mich. Fishing reel. 1,678,446; July 24.
Sadtler, Helena S., Springfield Township, Montgomery County, Pa. Steel printing body and producing the same. 1,678,231; July 24.
Salisbury, Orange J., Salt Lake City, Utah. Continuous process apparatus for forming articles from pulp. 1,677,905; July 24.
Sampson, Erick, sr., assignor to Art Metal Construction Company, Jamestown, N. Y. Locking means for index cards and the like. 1,678,357; July 24.
Samuelson, John P., Compton, Calif. Rotary drill bit. 1,678,201; July 24.
Sandell, Joseph H., Chicago, assignor to Comstock-Castle Stove Company, Quincy, Ill. Coal and wood ranges. Des. 75,875; July 24.
Sax Bros. (See Kappel, William J.)
Sax, Isidore, et al. (See Kappel, William J., assignor.)
Sax, Marcus, et al. (See Kappel, William J., assignor.)
Schaab, Harry M. (See Proctor, R. V., and Schaab.)
Schatzel, Rudolph A. (See Hender, G. A., and Schatzel.)
Scheidegger, Paul. (See Gams, A., and Scheidegger.)
Schlitt, Joseph L., and W. Dennis, Elizabeth, N. J., assignors to Air Reduction Company, Incorporated, New York, N. Y. Refrigeration. 1,678,485; July 24.
Schneider, Adolf, Kelheim, assignor to Niederbayerische Celluloscwerke, Kelheim-on-the-Danube, Germany. Circulation of liquids in preheaters and steam generators. 1,678,536; July 24.
Schneider, William H., assignor to A. C. Kootz, Milwaukee, Wis. Christmas-tree ornament and the like and manufacture thereof. 1,678,358; July 24.
Schnurr, George. (See Branch, B. A., and Schnurr.)
Schoell, Reinhold, Kelsey City, Fla. Transmission. 1,678,486; July 24.
Schonbrun, Max, New York, N. Y. Parachute. 1,678,537; July 24.
Schoonmaker, James M., jr., Sewickley, Pa., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Process and apparatus for cracking mineral oil. 1,678,126; July 24.
Schott, Howard H., assignor to Robeson-Rochester Corporation, Rochester, N. Y. Combined casserole and band. Des. 75,876; July 24.
Schraeder, Frank J., jr. (See Skala, Ljubomir W., assignor.)
Schrader, Harold D., Denver, Colo. Gas burner. 1,678,086; July 24.
Schulte, Louis, Pittsburgh, Pa., assignor to Allegheny Steel Company. Treating metal articles. 1,678,359; July 24.
Schutz, Konrad, Brooklyn, N. Y. Fastening device for shoes. 1,678,273; July 24.
Schutz, Konrad, Brooklyn, N. Y. Strengthening device for shoes. 1,678,274; July 24.
Schwenke, Robert, Berlin-Charlottenburg, Germany. Driving device for the front wheels of motor cars. 1,678,447; July 24.
Scott, Austin J., Gladwin, Mich. Combination salt and pepper shaker. 1,678,487; July 24.
Scott, David C. (See Valentine, F. A., and Scott.)
Scott, Henry L., Company. (See Valentine, F. A., and Scott, assignors.)
Scott, Henry T., and L. E. Rone, Wichita Falls, Tex. Safety device for tanks. 1,678,605; July 24.
Scott & Williams, Incorporated. (See Grothey, Ivan W., assignor.)
Scott, Winfield, assignor to The Rubber Service Laboratories Co., Akron, Ohio. Producing vulcanized rubber. 1,678,084; July 24.
Scott, Winfield, assignor to The Rubber Service Laboratories Co., Akron, Ohio. Producing vulcanized rubber. 1,678,085; July 24.
Scougal, De Witt C., Seattle, Wash. Auxiliary vise automatic. 1,678,360; July 24.
Sealy Mattress Company of Minnesota. (See Olsen, Elnar J., assignor.)
Seghers, Emiel P., Chicago, Ill. Trap. 1,678,168; July 24.
Selden Company, The. (See Conover, Courtney, assignor.)
Selden Company, The. (See Deutsch, L., and Thorn, assignors.)
Selden Company, The. (See Jaeger, Alphons O., assignor.)
Sentinel Mfg. Co., The. (See Tyler, Victor M., assignor.)
Serpas, Ernest J., New Orleans, La. Regulating apparatus. 1,677,992; July 24.
Seymour, Ralph C., Short Hills, N. J. Printing press. 1,677,931; July 24.
Shackelford, Edward H., jr., assignor to Hebbard Manufacturing Company, Joplin, Mo. Flotation machine. 1,678,087; July 24.
Shadrick, Richard H., assignor to A. E. Carlsen, Minneapolis, Minn. Thermostatic cut-out for gas valves. 1,678,169; July 24.
Shakespeare Company. (See Russell, S. G., and Workman, assignors.)
Shalkhauser, Eric G., Peoria, Ill. Combined radiator, lamp casing, and hood for motor vehicles. Des. 75,877; July 24.
Shannon, Jesse P., Lake Geneva, Wis. Fishing lure. 1,678,448; July 24.
Sharp & Smith. (See Shearon, Clarence G., assignor.)
Shaw-Walker Company. (See Hunter, David E., assignor.)
Shearon, Clarence G., Evanston, assignor to Sharp & Smith, Chicago, Ill. Surgical needle. 1,678,361; July 24.
Shivers, Paul F., Wabash, Ind., assignor, by mesne assignments, to Minneapolis Honeywell Regulator Company, Minneapolis, Minn. Electric valve. 1,678,202; July 24.
Sideman, Reuben, San Francisco, Calif. Show case. 1,678,088; July 24.
Siemens & Halske Aktiengesellschaft Wernerwerk. (See Quassowski, Paul, assignor.)
Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftunk. (See Menz, Gustav, assignor.)
Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Stender, Waldemar, assignor.)
Silica Gel Corporation, The. (See Miller, Ernest B., assignor.)
Silica Gel Corporation, The. (See Patrick, W. A., and Miller, assignors.)
Simons Bros. Company. (See Simons, Frederick M., assignor.)
Simons, Frederick M., Bowling Green, Pa., assignor to Simons Bros. Company. Display tray. 1,678,449; July 24.
Singer, Grove C., Oakland, Ind. Electric lamp. 1,678,606; July 24.
Singmaster, James A., Bronxville, N. J., and F. G. Breyer and E. H. Bunce, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Metallurgy of zinc. 1,678,607; July 24.
Skala, Ljubomir W., Riverside, assignor of forty-five one-hundredths to F. J. Schraeder, jr., Glenn Ellyn, Ill. Television. 1,678,132; July 24.
Slade, Edward, New York, N. Y. Brake lining. 1,678,305; July 24.
Sloan, Alonso H., Detroit, Mich., assignor to Blaw-Knox Company, Pittsburgh, Pa. 1,678,362; July 24.
Smith, Amory J., et al. (See Gonsett, Robert R., assignor.)
Smith, Francis B., San Francisco, Calif. Positioning and aligning structures in aqueous bodies. 1,678,127; July 24.
Smith, George W., Forbes, N. Dak. Pail. 1,677,906; July 24.
Smith, Mowry, Neenah, assignor to Menasha Wooden Ware Company, Menasha, Wis. Tub cover. 1,678,306; July 24.

Smith, Neal D., assignor to United States Gypsum Company, Chicago, Ill. Weight-supporting tile. 1,677,907; July 24.
Smith, Omar H., assignor to General Rubber Company, New York, N. Y. Treating rubber latex and products obtained thereby. 1,678,022; July 24.
Smithers, Vernon L., Cuyahoga Falls, Ohio. Machine for investigating the properties of tires under loads. 1,678,363; July 24.
Smythe, Edwin H., Evanston, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Communicating and switching system. 1,678,203; July 24.
Socher, Hans, Zurich-Hongg, Switzerland. Foot-arch support. 1,678,608; July 24.
Société Anonyme le Carbone. (See Oppenheim, René, assignor.)
Society of Chemical Industry in Basle. (See Gams, A., and Scheidegger, assignors.)
Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Glass feeder. 1,678,232; July 24.
Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Glass-forming machine. 1 678,233; July 24.
Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Glassware-annealing leer. 1,678,234; July 24.
Southern Textile Machinery Company. (See Steere, William J., assignor.)
Spalding, A. G., & Bros. (See Reach, William F., assignor.)
Spangenberg, Fernando. (See Repay, Theodore, assignor.)
Spangler, Earl G. (See Walker, Thomas H., assignor.)
Spanier, Fritz, Karlsruhe, Germany. Toothpick. 1,678,609; July 24.
Spearman, Henry, San Mateo, Calif. Sectional magazine rack. 1,678,275; July 24.
Spencer, John A., Revere, assignor to Spencer Thermostat Company, Cambridge, Mass. Thermostat. 1,678,407; July 24.
Spencer Thermostat Company. (See Spencer, John A., assignor.)
Spencer, Wesley D., et al. (See Gonsett, Robert R., assignor.)
Sproull, Clarence W., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,678,276; July 24.
Srulowitz, Hermann, Vienna, Austria. Shutting-off device for steam pipes and the like. 1,678,204; July 24.
Stadden, William H., Springfield, Mass. Valve. 1,677,993; July 24.
Standard Oil Development Company. (See Adams, Gale L., assignor.)
Standard Oil Development Company. (See Garner, J. B., and Leyden, assignors.)
Stebbins, Albert H., Los Angeles, Calif. Concentrator table. 1,678,364; July 24.
Steele, James R. (See Moore, G. L., and Steele.)
Steere, William J., Rockwood, Tenn., assignor to Southern Textile Machinery Company, Paducah, Ky. Sewing machine. 1 677,932; July 24.
Steiner Sales Company. (See Halls, Edward T., assignor.)
Stender, Waldemar, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Steam boiler. 1,678,235; July 24.
Stetson-Ross Machine Company. (See Webb, Orra W., assignor.)
Stevens, Victor H. (See Hartmann, Anton V., assignor.)
Stillman, Albert L., Plainfield, N. J., assignor to The General Fuel Briquette Corporation, New York, N. Y. Briquette and making the same. 1,677,994; July 24.
Stillwaggon, John J., Jersey City, N. J. Scraper. 1,678,488; July 24.
Stites, Joseph D., Whitestone N. Y. Canoe with steerable pontoon. 1,678,023; July 24.
Stone, Charles B. (See Coop, W. L., and Stone.)
Stone, Frederick Spokane, Wash. Earth-boring machine. 1,678,307; July 24.
Stoulil, Charles R., Pocahontas, Iowa. Dirigible headlight for automobiles. 1,678,308; July 24.
Stromberg-Carlson Telephone Manufacturing Company. The. (See Levis, John H., jr., assignor.)
Stromberg-Carlson Telephone Manufacturing Company, The. (See Manson, Ray H., assignor.)
Stromberg-Carlson Telephone Manufacturing Company, The. (See Powell, Winfred T., assignor.)
Stromswold, Leonard T. (See Hancock, W. G., and Stromswold.)
Strosacker, Charles J., and C. C. Kennedy, assignors to The Dow Chemical Company, Midland, Mich. Manufacture of indigo. 1,678,619; July 24.
Strouse, Adler Company, The. (See Reynolds, Michael J., assignor.)
Stuckey, Robert B., assignor to W. A. Riddell Company, Bucyrus, Ohio. Gate for leers, ovens, and the like. 1,677,933; July 24.
Sturtevant, Harold E., assignor to The Whitney Mfg. Co., Hartford, Conn. Chain and part therefor. 1,678,450; July 24.
Submarine Signal Corporation. (See Dorsey, H. G., and Williams, assignors.)
Submarine Signal Corporation. (See Williams, Robert L., assignor.)
Sulentic, Nicholas, Waterloo, Iowa. Spring recompressor. 1,677,934; July 24.
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
Sullivan Machinery Company. (See Mitchell, Joseph S., assignor.)
Sullivan Machinery Company. (See Wyman, Charles W. assignor.)
Sun Rubber Company. (See Lower, Melvin S., assignor.)
Sundberg, Karl, Rasunda, assignor to Aktiebolaget Elektrisk Malmletning, Stockholm, Sweden. Method and device for detecting and locating ores in an electromagnetic way. 1,678,489; July 24.
Sutliff, Wayne N., Brea, Calif. Slush-pump piston. 1,678,365; July 24.
Swartwout, Everett W., White Plains, N. Y. Steam engine. 1,678,309; July 24.
Tann, James H., Lansing, Mich. Vehicle signal. 1,678,366; July 24.
Tanner, Arnold J., North Haven, Conn. Dispensing and display container or box. 1,678,538; July 24.
Tarkington, Byron G., Shorewood, and O. F. Winsinger, Milwaukee, Wis., assignors to American Resistor Corporation, Philadelphia, Pa. Electrical heating appliance. Des. 75,878; July 24.
Taylor, James H., Oak Park, Ill. Apparatus for making nozzles. 1,678,451; July 24.
Tebo, William A., Anthony, R. I., assignor to Draper Corporation, Hopedale, Mass. Shuttle-thread tension for replenishing looms. 1,678,610; July 24.
Terwilliger, Charles O., Mount Vernon, assignor to F. v. Briesen, trustee, New York, N. Y. Condensation product and making the same. 1,678,024; July 24.
Texas Company, The. (See Schoonmaker, James M., jr., assignor.)
Thayer, Lou V., Adamsville, Pa. Potato digger. 1,678,490; July 24.
Thomas M. Klutts, Portland, Oreg. Washing machine. 1,678,120; July 24.
Thomas, Pacific J., Pittston, Pa. Reeling machine. 1,678,367; July 24.
Thomas, Pacific J., Wyoming, Pa. Prong clearing fork. 1,678,368; July 24.
Thompson, Augustus F., Huntington, W. Va. Radiant gas heater. Des. 75,879; July 24.
Thomson, S. H., Manufacturing Company, The. (See Hummert, Robert H., assignor.)
Thordarson, Chester H., Chicago, Ill. Adjustable electric condenser. 1,677,935; July 24.
Thordarson, Chester H., Chicago, Ill. Electric motor. 1,677,936; July 24.
Thordarson, Chester H., Chicago, Ill. Adjustable bearing structure. 1,677,937; July 24.
Thorn, Isak. (See Deutsch, L., and Thorn.)
Thorp, Kermit O., River Edge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission-control system. 1,678,128; July 24.
Tiechurst, George L., Bakersfield, Calif. Oil-reservoir safety appliance. 1,678,539; July 24.
Tiedemann, Henry F., assignor to Theo. Tiedemann & Sons, Inc., New York, N. Y. Textile fabric. Des. 75,880; July 24.
Tiedemann, Theo., & Sons, Inc. (See Tiedemann, Henry F., assignor.)
Timbs, Edward, Los Angeles, and L. E. Zerbe, Moneta, Calif., assignors to The National Supply Company of Delaware, New York, N. Y. Chain-drive sand reel attachment. 1,678,236; July 24.
Tischler & Seichter. (See Petersen, F., and Krüssmann, assignors.)
Tjaden, Alex S., Sioux City, Iowa. Light-control device for headlights. 1,678,170; July 24.
Tohtz, Helmuth W., and K. L. Bonnell, St. Louis, Mo. Refrigerator. 1,678,171; July 24.
Tohtz, Helmuth W., and K. L. Bonnell, St. Louis, Mo. Refrigerating system. 1,678,172; July 24.
Tonceray, Millard H., assignor to Hudson Motor Car Company, Detroit, Mich. Hood latch for automobiles. 1,678,025; July 24.
Torp, Morten J. (See Hansen, A., and Torp.)
Tournier, Edward P., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Tool. 1,678,173; July 24.
Trenner, Simeon, Philadelphia, Pa. Pipette. 1,678,540; July 24.
Tritz, John H., Clinton, Iowa, assignor to Cotta Transmission Corporation, Rockford, Ill. Mixing valve. 1,677,995; July 24.
Troutman, William E., assignor to Duquesne Steel Foundry Company, Pittsburgh, Pa. Annealing box. 1,678,452; July 24.
Trumbull Electric Manufacturing Company, The. (See Getchell, Benjamin, assignor.)
Tucker, Andrew, Fairfield, Conn. Wall-bracket lighting fixture. Des. 75,881; July 24.
Tumey, Charles H., sr., San Antonio, Tex. Headlight lens. 1,678,408; July 24.
Tupper, Frank H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Making ventilating strips for transformers. Re17,048; July 24.

Tuttle, George H., assignor to The Packard Electric Company, Warren, Ohio. Tap changer. 1,678,129; July 24.

Twin City Forge & Foundry Company. (See Ovestrud, Melvin, assignor.)

Tyler, Victor M., assignor to The Sentinel Mfg. Co., New Haven, Conn. Time-controlled gas-burning apparatus. 1,678,130; July 24.

U. G. I. Contracting Company. (See Fulweiler, Walter H., assignor.)

Ullmann, Gustav, Vienna, Austria. Method of and apparatus for cleaning high-pressure boiling apparatus. 1,678,089; July 24.

Ullom, Virgil V., et al. (See Gonsett, Robert R., assignor.)

Union Switch & Signal Company, The. (See Sproull, Clarence W., assignor.)

United Engineering & Foundry Company. (See Biggert, Florence C., jr., assignor.)

United Engineering and Foundry Company. (See Johnson, Lane, assignor.)

United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)

United Shoe Machinery Corporation. (See Hughes, William, assignor.)

United Shoe Machinery Corporation. (See Pym, Arthur F., assignor.)

United States Gypsum Company. (See Smith, Neal D., assignor.)

Universal Button Fastening & Button Co. (See Langley, Frank F., assignor.)

University Manufacturing & Sales Co. Inc. (See Hadermann, Frederick E., assignor.)

University Patents, Inc. (See Zucker, Theodore F., assignor.)

Utrilla, José M., Guanabacoa, Habana, Cuba. Attachment for writing implements. 1,678,578; July 24.

Valentine, Frank A., Apponaug, and D. C. Scott, assignors to Henry L. Scott Company, Providence, R. I. Testing machine. 1,678,369; July 24.

Valley Electric Company. (See Ballman, Edwin C., assignor.)

Vallone, Charles, assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Crib or bed and the like structure. 1,678,237; July 24.

Van Albada, Lieuwe E. W., Amsterdam, Netherlands, assignor to the firm Carl Zeiss, Jena, Germany. Finder for photographic cameras. 1,678,493; July 24.

Van Sickle, Wilton, Lincoln Nebr. Server for slices of bread and the like. 1,677,938; July 24.

Vaughan, Frank P., assignor to Bay West Paper Co., Green Bay, Wis. Carton. 1,678,370; July 24.

Vaughn, Thomas L., jr., Charlotte, N. C. Safety fuse. 1,678,131; July 24.

Vincent, Perlo, Gloversville, N. Y. Skate. 1,678,579; July 24.

Vinogradov, Eugene, New York, N. Y. Automatic newspaper-vending machine. 1,677,939; July 24.

Viscose Company, The. (See Copson, Ernest D., assignor.)

Voices Incorporated. (See Hutnikow, Theodore, assignor.)

Volare, Fred, Scotch Plains, N. J., assignor to The Aeolian Company. Pitman for pneumatic motors. 1,677,908; July 24.

Von Auw, Alwin, assignor to Boorum & Pease Company, Brooklyn, N. Y. Visible card index. 1,678,541; July 24.

Von Platen, Baltzar C., and C. G. Munters, Stockholm, Sweden, assignors to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,678,277; July 24.

Voorhees, John R., Cedar Falls, Iowa. Friction clutch. 1,678,026; July 24.

Wade, Benjamin O., White Pigeon, Mich. Wrench. 1,677,909; July 24.

Wade, Clem F., Evanston, Ill. Refrigerator. Des. 75,882; July 24.

Waggoner, Ralph, assignor to Marbelite Corporation of America, Los Angeles, Calif. Pedestal. Des. 75,883; July 24.

Wagner, Albert, Gross-Zschachwitz, near Dresden, Germany, assignor to the firm Fr. Küttner, Pirna, Saxony. Spinning machine for spinning artificial silk. 1,677,940; July 24.

Wagner, Charles L., Boonton, N. J., assignor to C. L. W. Patents Corporation. Heater. 1,678,027; July 24.

Wagner, Hermann, Soden-on-the-Taunus, and H. Eichwede and E. Fischer, Hoechst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Dyeing mixed textile goods. 1,678,611; July 24.

Walker Manufacturing Company. (See Dearsley, Irwin E., assignor.)

Walker, Thomas H., Kansas City, Mo., assignor to E. G. Spangler. Pumping device. 1,678,612; July 24.

Wallace, Charles F., Westfield, and J. C. Baker, Nutley, assignors to Wallace & Tiernan Products, Inc., Belleville, N. J. Apparatus for the therapeutic application of chlorine. 1,678,625; July 24.

Wallace & Tiernan Products, Inc. (See Wallace, C. F., and Baker, assignors.)

Wallau, Alexander L., Cedarhurst, N. Y. Filler for cigar lighters. 1,678,494; July 24.

Walline, Ruben L. (See Prosch, Floyd F., assignor.)

Ward, Ernest, Independence, Mo. Lock washer. 1,678,409; July 24.

Warrington, William W., Summer Hill, New South Wales, Australia. Machine for preparing paper to enable portions to be easily detached. 1,678,410; July 24.

Waterbury Buckle Co. (See Moore, R. A., and La Vigne, assignors.)

Watkins, Walter W., Moulton, Ala. Cotton chopping machine. 1,678,542; July 24.

Watson, Cornelius B. (See Carr, R. H., and Watson.)

Watson, Reid, Lawrenceville, N. J. Coffee percolator. 1,678,543; July 24.

Webb, Orra W., assignor to Stetson-Ross Machine Company, Seattle, Wash. Hold-over guide for lumber-finishing machines and adjusting means therefor. 1,678,371; July 24.

Weeks, Charles S., South Orange, N. J., assignor, by mesne assignments, to The Gerrard Company, Inc., San Francisco, Calif. Package banding machine. 1,677,941; July 24.

Wees, Edward J., Omaha, Nebr. Shrine. Des. 75,884. July 24.

Wehrle Company, The. (See Pickup, George E., assignor.)

Wehrle, Otto, Emmendingen, Germany. Casing for electric transformers and the like. 1,678,090; July 24.

Weiss, Albert, Jacksonville, Fla. Method and apparatus for making building blocks. 1,678,613; July 24.

Weissberg, Hyman D., New York, N. Y. Bird cage. Des. 75,885; July 24.

Welch, Lyman W., assignor to Welch Manufacturing Company, Grand Rapids, Mich. Door structure for display cabinets. 1,678,453; July 24.

Welch Manufacturing Company. (See Welch, Lyman W., assignor.)

Western Electric Company. (See Bower, Justus H., assignor.)

Western Electric Company. (See Estes, Marion S., assignor.)

Western Electric Company. (See Friis, Harald T., assignor.)

Western Electric Company. (See Gilbert, John J., assignor.)

Western Electric Company. (See Harrison, Henry C., assignor.)

Western Electric Company. (See Hosford, William F., assignor.)

Western Electric Company. (See Kelly, Mervin J., assignor.)

Western Electric Company. (See Mathes, Robert C., assignor.)

Western Electric Company. (See Oswald, Arthur A., assignor.)

Western Electric Company. (See Peterson, Eugene, assignor.)

Western Electric Company. (See Rorty, M. C., and Potter, assignors.)

Western Electric Company. (See Smythe, Edwin H., assignor.)

Western Electric Company. (See Thorp, Kermit O., assignor.)

Western Electric Company. (See Tournier, Edward P., assignor.)

Western Electric Company. (See Wolfe, Wallace V., assignor.)

Western Railway Equipment Co. (See Howard, Charles L., assignor.)

Western Railway Equipment Company. (See Hoerr, Louis A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Brace, Porter H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Lamb, Carl J., assignor.)

Westinghouse Electric & Manufacturing Company. (See Tupper, Frank H., assignor.)

Westinghouse Gear and Dynamometer Company. (See Allen, Robert C., assignor.)

Westmoreland, Ennes L., Ogden, Utah. Extensible chassis for automobiles. 1,678,411; July 24.

Weston, Charles W., Pampa, assignor of one-fourth to Z. Wilson, Hidalgo County, and one-half to F. E. Osborn, F. B. Freeland, and G. Griffin, McAllen, Tex. Wall-paper border. Des. 75,886; July 24.

Wetzell, Clare A., Sterling, Ill., Wheel bearing figure toy. Des. 75,887; July 24.

Wetzell, Clare A., Sterling, Ill. Wheel bearing figure toy. Des. 75,888; July 24.

Weyandt, Carl S., Pittsburgh, Pa., assignor to Central Electric Tool Company. Reciprocating electric motor. 1,678,278; July 24.

Wheeler, Harry J., Kansas City, Mo. Fuse plug. 1,678,412; July 24.

Wheeling Stamping Company. (See Davis, Walter T., assignor.)

Whitaker, William T., Greenville, S. C. Harness strap. 1,678,544; July 24.

White, John F., assignor to White Products Company, Chicago, Ill. Theft-preventing device. 1,678,174; July 24.

White Products Company. (See White, John F., assignor.)

Whitmore, Wilbur W., Denver, Colo. Electric traffic signal. 1,677,942; July 24.

Whitney Mfg. Co., The. (See Belcher, Warren J., assignor.)

Whitney Mfg. Co., The. (See Sturtevant, Harold E., assignor.)

Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Electrically-operated thermostat. 1,678,372; July 24.

Wiegand, Henry J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Resistance control apparatus. 1,678,028; July 24.

Wiesenfeld, Hattie M., executrix. (See Wiesenfeld, Joseph.)

Wiesenfeld, Joseph, deceased, Baltimore, Md.; H. M. Wiesenfeld, executrix. Saddle girth. 1,678,373; July 24.

Wiggin, Polly, Inc. (See Davis, S., and La Fon, assignors.)

Wiley, Roy E. (See Mensing, C. E., and Wiley.)

Wilhelm, Ottmar, assignor to the firm: Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany. Adjusting the proportion of color to thinning agent in connection with intaglio printing machines. 1,678,091; July 24.

Wilkinson, Eltoft W. (See Chapman, G. A., and Wilkinson.)

Williams, Robert L. (See Dorsey, H. G., and Williams.)

Williams, Robert L., Newton, assignor to Submarine Signal Corporation, Boston, Mass. Method and apparatus for measuring distance. 1,677,943; July 24.

Williams, Robert L., Newton, assignor to Submarine Signal Corporation, Boston, Mass. Method and apparatus for distance and direction measurement. 1,677,944; July 24.

Williams, Robert L., Newton, assignor to Submarine Signal Corporation, Boston, Mass. Method and apparatus for sound transmission. 1,677,945; July 24.

Williamson, R., & Company. (See Ohm, Albert J. D., assignor.)

Wills, Charles M., Atlantic City, N. J., assignor to The American Transom Co. Inc., Philadelphia, Pa. Flexible ventilator. 1,677,910; July 24.

Wilson, Zack, et al. (See Weston, Charles W., assignor.)

Wingquist, Sven G., Gottenborg, Sweden. Hydraulic change-speed gear. 1,677,996; July 24.

Winsboro, William A., Los Angeles, Calif., assignor to J. A. Greathouse. Lamp. Des. 75,889; July 24.

Winsinger, Otto F. (See Tarkington, B. G., and Winsinger.)

Winterhalder, Wilhelm, Frankfort-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Dyeing with vat and azo dyestuffs. 1,678,580; July 24.

Wirrer, Gottfried, Plainfield, N. J., assignor to International Motor Company, New York, N. Y. Selective change-speed mechanism with two reverse gears. 1,678,029; July 24.

Witham, George S., jr., Hudson Falls, N. Y. Moisture indicating and recording. Re17,049; July 24.

Withycombe, Robert M., Sydney, New South Wales, Australia. Making rubber brushes. 1,678,545; July 24.

Wolfe, Wallace V., Glen Ridge, assignor to Western Electric Company, Incorporated, New York, N. Y. Power-line signaling. 1,678,133; July 24.

Wolff, Herbert, Polzig, assignor to Progress Gesellschaft für Textilmaschinen mit beschränkter Haftung, Nuremberg, Germany. Crank-shaft mechanism for the slay of looms. 1,678,238; July 24.

Wolock, Morris, Chicago, Ill. Shoe box. Des. 75,891; July 24.

Wolter, Herman H., assignor to The Miller Company, Meriden, Conn. Lamp standard. Des. 75,890; July 24.

Wood, William H., South Euclid, Ohio. Automobile lamp. 1,678,092; July 24.

Wood, William H., South Euclid, Ohio. Vehicle headlight. 1,678,093; July 24.

Woodruff, Henry S., Schenectady, N. Y. Smoothing iron. 1,678,310; July 24.

Work, Samuel D., Minerva, Ohio. Locomotive-cylinder cock. 1,678,581; July 24.

Workman, Peter, jr. (See Russell, S. G., and Workman.)

Wright, Parvin, Chicago, Ill. Box-strapping machine. 1,677,911; July 24.

Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Blow-out device. 1,678,205; July 24.

Yount, Horace J., Indianapolis, Ind. Micrometer caliper. 1,678,030; July 24.

Zähringer, Alexander, Stuttgart, Germany. Grinding machine. 1,678,413; July 24.

Zeiss, Firm Carl. (See Van Albada, Lieuwe E. W., assignor.)

Zeller, Joseph V. (See Hower, J. B., and Zeller.)

Zerbe, Lewis E. (See Timbs, E., and Zerbe.)

Ziemmerman, Henry, assignor to Chicago Card Board Company, Chicago, Ill. Display dispenser. 1,678,094; July 24.

Zimmerman, Rufus E. (See O'Brien, T., and Zimmerman.)

Zitscher, Arthur. (See Laska, L., and Zitscher.)

Zucker, Theodore F., assignor, by mesne assignments, to University Patents, Inc., New York, N. Y. Obtaining certain remedial principles of oils. 1,678,454; July 24.

Zweig, Joseph, Brooklyn, assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Telephone cabinet. Des. 75,845; July 24.

Zwiebel, Ambrose A., Wilkes-Barre, Pa. Umbrella. 1,678,414; July 24.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 24TH DAY OF JULY, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abrasive wheel. J. L. Howland. 1,678,596; July 24.
Acetate of lead solutions or crystals out of pyroligneous acid, Manufacturing white. M. Klar. 1,678,256; July 24.
Acids, Cyclopentenyl-substituted aliphatic. R. Adams, C. R. Noller, and J. A. Arvin. 1,678,175; July 24.
Advertising and display device. C. A. Long, jr. 1,678,475 July 24.
Aeroplane. L. Nagy. 1,678,423; July 24.
Agitator. W. R. Ellis. 1,678,425; July 24.
Agitator for chemically purifying oil. J. W. Kincade. 1,678,225; July 24.
Air circulating device for air ducts. H. G. McCaffrey. 1,677,974; July 24.
Air-conditioning system. J. H. Bower. 1,678,101; July 24.
Air waves for aural kinesitherapy, Utilizing. B. E. Eldred. 1,678,565; July 24.
Alarms, Circuit closer for electric. M. T. Cabral. 1,678,555; July 24.
Alkali-metal compounds from silicates containing them, Production of. T. A. Edison. 1,678,246; July 24.
Amplifier and radiator, Acoustic. E. A. Graham. 1,678,214; July 24.
Amusement device. Y. Nakashima. 1,678,573; July 24.
Anæsthetics of the metaaminobenzoic acid ester series, Manufacture of easily-soluble. O. Billeter, E. Rothlin, and J. Peyer. 1,678,317; July 24.
Anchor, Rail. B. M. Cheney. 1,678,461; July 24.
Anchor, Rail. G. L. Moore and J. R. Steele. 1,678,404; July 24.
Anchor, Sleeper. G. B. Bosco. 1,677,882; July 24.
Annealing box. W. E. Troutman. 1,678,452; July 24.
Antenna array, Broadside. S. W. Dean. 1,677,956; July 24.
Antitheft device. C. Lewando. 1,678,440; July 24.
Audition, Aiding. B. E. Eldred. 1,678,564; July 24.
Automobile body. J. Ledwinka. Re17,051; July 24.
Automobile heater. H. L. Hubbard. 1,678,567; July 24.
Automobile signal. E. F. Carlsen. 1,677,883; July 24.
Awning bracket. W. G. Dunn. 1,678,561; July 24.
Azo dyestuffs from 2-3-hydroxynaphthoic acid arylids and making the same. L. Laska and A. Zitscher. 1,678,599; July 24.
Bag: *See*—
Sleeping bag.
Ball handle. F. W. A. Hallerman. 1,678,005; July 24.
Baking pan. J. G. Jackson. 1,678,008; July 24.
Banding machine, Package-. C. S. Weeks. 1,677,941; July 24.
Barrel, Tumbling. F. W. Neville. 1,678,072; July 24.
Bath fixture, Combination. J. H. Balmer. Des. 75,819–20; July 24.
Battery: *See*—
Storage battery.
Battery and method of manufacture, Dry. E. E. Meisekothen. 1,678,601; July 24.
Bead-forming device. D. E. Hennessy. 1,678,043; July 24.
Bearing. H. G. Martin and M. H. Newgirg. 1,678,152; July 24.
Bearing structure, Adjustable. C. H. Thordarson. 1,677,937; July 24.
Bed, Folding camp. E. E. McGrew. 1,678,441; July 24.
Belt tightener. G. E. Fentress. 1,678,287; July 24.
Bench leg. H. B. Hursh, C. J. Anderson, and W. M. Bartels. 1,678,392; July 24.
Bit: *See*—
Drill bit.
Bit. N. K. Bowman. 1,677,960; July 24.
Bit for horses. T. Q. Preece. 1,678,532; July 24.
Blade for steam turbines, Runner. G. Menz. 1,678,263; July 24.
Blow-out device. C. W. Wyman. 1,678,205; July 24.
Board: *See*—
Drain board.
Body brace. E. Branson. 1,678,584; July 24.
Boiler: *See*—
Steam boiler. Superheater boiler.
Boilers, Supporting iron plate for. S. C. Markatos. 1,678,295; July 24.
Book clamp, Check. J. C. Buechler. 1,678,055; July 24.
Borax from $Na_2O.2B_2O_3.4H_2O$, Production of commercial. T. M. Cramer. 1,678,381; July 24.
Boring machine, Earth. F. Stone. 1,678,307; July 24.
Bottle. L. Lelong. Des. 75,852; July 24.
Bottle. G. N. Mas and S. K. Lubonia. Des. 75,854. July 24.
Bottle or similar article. L. W. Rice. Des. 75,873; July 24.
Bottle utilizable as a vase by turning it over. F. de Gerson. 1,678,588; July 24.
Box: *See*—
Annealing box. Display box.
Cigarette-delivery box.
Box for articles, Shipping. C. P. Gallistel. 1,677,918; July 24.
Box-strapping machine. P. Wright. 1,677,911; July 24.
Brace: *See*—
Body brace.
Bracket: *See*—
Awning bracket. Shore bracket.
Brake: *See*—
Vehicle brake.
Brake-control mechanism, Air. W. L. Coop and C. B. Stone. 1,678,106; July 24.
Brake equalizer. J. L. Mesple. 1,678,155; July 24.
Brake for vehicles. G. McGhee. 1,678,227; July 24.
Brake lining. E. Slade. 1,678,305; July 24.
Bridge for spectacles. E. Pappert. Des. 75,868; July 24.
Briquette and making the same. A. L. Stillman. 1,677,994; July 24.
Briquette and producing it. R. M. Hale. 1,678,387; July 24.
Brush, Shaving. S. W. Kendrick. 1,678,146; July 24.
Brushes, Making. C. R. Hubbard. 1,677,920; July 24.
Brushes, Making rubber. R. M. Withycombe. 1,678,545; July 24.
Buckle, Belt. A. H. Beck. 1,678,417; July 24.
Buckle, Slide. R. A. Moore and J. R. La Vigne. 1,678,264. July 24.
Building blocks, Method and apparatus for making. A. Weiss. 1,678,613; July 24.
Building construction. C. W. Glover. 1,678,504; July 24.
Building, Memorial. A. T. Nelson. Des. 75,862; July 24.
Burner: *See*—
Gas burner. Oil burner.
Hydrocarbon burner.
Burners, Priming device for hydrocarbon. W. C. Coleman. 1,678,057; July 24.
Button-affixing machine. F. F. Langley. 1,678,616; July 24.
Button, Control. E. J. Nielsen. 1,678,524; July 24.
Button cover. W. L. Myers and G. D. Harrison. 1,678,265; July 24.
Cabinet. C. J. Campbell. 1,678,378; July 24.
Cabinet, Collapsible shoe. M. W. Ahles. 1,678,415; July 24.
Cabinet, Radio receiving set. A. E. Hansen. Des. 75,841; July 24.
Cabinet, Sanitary roll-towel. E. T. Halls. 1,678,220; July 24.
Cabinet, Telephone. J. Zweig. Des. 75,845; July 24.
Cable. J. F. Howe. 1,678,292; July 24.
Cage, Bird. H. D. Weissberg. Des. 75,885; July 24.
Calculating device. N. L. Oates. 1,678,019; July 24.
Caliper, Micrometer. H. J. Yount. 1,678,030; July 24.
Cameras, Finder for photographic. L. E. W. Van Albada. 1,678,493; July 24.
Can opener. A. N. Frost. 1,678,112; July 24.
Candles, Electrical Christmas. C. T. Bliss. 1,677,998; July 24.
Canoe with steerable pontoon. J. D. Stites. 1,678,023; July 24.
Capper, Bottle. H. G. Rice. 1,678,303; July 24.
Car-control apparatus, Electric. P. A. Renta. 1,678,533; July 24.
Car liner. W. W. Rowe. 1,678,356; July 24.
Car, Mine. G. B. Edmunds. 1,678,563; July 24.
Car, Refrigerator. H. Corbin. 1,678,421; July 24.
Car ventilator, Poultry-. W. P. Johnson. 1,678,393; July 24.
Cars, Superstructure for tunnel-kiln. D. B. Hendryx. 1,678,251; July 24.
Carbon roll and core for manifolding machines. L. E. Lentz. 1,677,971; July 24.
Carburetor. M. C. Morris. 1,677,926; July 24.
Carline reenforcement and load-lifting arrangement. C. Harter. 1,678,509–10; July 24.
Cart. T. A. Conlon. 1,678,585; July 24.
Carton. F. P. Vaughan. 1,678,370; July 24.

Carton knock-out. H. D. Field. 1,678,426; July 24.
Cartridge. J. D. Pedersen. 1,678,162; July 24.
Case: *See*—
Show case.
Case and tray for storage-battery cells, Combined packing. W. H. Pelmer, jr. 1,677,982; July 24.
Casing having light-transmitting closure. H. A. Douglas. 1,678,137; July 24.
Casing, Vending-machine. P. G. Larrabee, H. A. Root, and E. S. Cassaday. Des. 75,851; July 24.
Casing, Well. H. Y. Carson. 1,678,280; July 24.
Casserole and band, Combined. H. H. Schott. Des. 75,876; July 24.
Casting articles having chromium-alloy surfaces, W. M. Mitchell. 1,677,979; July 24.
Catalysts, Regenerating. A. O. Jaeger. 1,678,627; July 24.
Catalysts, Reviving. A. O. Jaeger. 1,678,626; July 24.
Cellulose fiber, Production of high-alpha-. G. A. Richter. 1,678,230; July 24.
Cementing oil wells. M. T. McKee. 1,677,975; July 24.
Centrifugal cleaner. M. P. Holmes. 1,678,338; July 24.
Chain and part therefor. H. E. Sturtevant. 1,678,450; July 24.
Chain-drive sand-reel attachment. E. Timbs and L. S. Zerbe. 1,678,236; July 24.
Chains, Cross member for nonskid. E. J. Herchert. 1,678,063; July 24.
Chair. W. S. Ferris. 1,678,004; July 24.
Chair back. A. L. Johnson. Des. 75,848; July 24.
Chair, stool, seat, and the like, Metallic. F. H. Headley. 1,678,006; July 24.
Chandelier. J. Novin. Des. 75,864; July 24.
Chassis for automobiles, Extensible. E. L. Westmoreland. 1,678,411; July 24.
Cheese, Remaking. S. K. Robinson. 1,678,167; July 24.
Chlorine, Apparatus for the therapeutic application of. C. F. Wallace and J. C. Baker. 1,678,625; July 24.
Chopping machine, Cotton. W. W. Watkins. 1,678,542; July 24.
Churning cream into butter fat and apparatus therefor. C. E. North. 1,678,478; July 24.
Cigarette-delivery box. C. C. Roberts. 1,678,355; July 24.
Circuit-closing device. C. E. Morris. 1,678,228; July 24.
Circuit connecter. H. A. Douglas. 1,678,138; July 24.
Circuit controller, Time-controlled. R. R. Gonsett. 1,678,217; July 24.
Circuits, Thermionic-tube. 1,678,077; July 24.
Clamp: *See*—
Book clamp.
Clamp connecter, Electric. W. N. Ott. 1,678,350; July 24.
Clamping band. J. F. Horne. 1,678,622; July 24.
Cleaner: *See*—
Centrifugal cleaner. Vacuum cleaner.
Suction cleaner.
Cleaning and separating hair, Method and apparatus for. E. J. Olsen. 1,678,525; July 24.
Cleaning device. Hydraulic vacuum. C. F. MacDonald. 1,678,258; July 24.
Cleaning high-pressure boiling apparatus, Method of and apparatus for. G. Ullmann. 1,678,089; July 24.
Cleaning tin plate. T. O'Brien and R. E. Zimmerman. 1,678,297; July 24.
Cleansing machine. W. H. Dunn. 1,678,037; July 24.
Clip: *See*—
Floor clip. Permanent-wave clip.
Closets, Foot-rest attachment for. Z. W. Gunckel. 1,678,466; July 24.
Clutch, Friction. J. R. Voorhees. 1,678,026; July 24.
Coal briquette and making it. G. A. Chapman and E. W. Wilkinson. 1,678,379; July 24.
Cont. K. E. Burns. Des. 75,826; July 24.
Cock, Locomotive-cylinder. S. D. Work. 1,678,581; July 24.
Coin-controlled mechanism. H. B. Hilts. 1,677,893; July 24.
Coke, Quenching. F. F. Marquard. 1,677,973; July 24.
Collar holder. L. E. Baer. Des. 75,818; July 24.
Color to thinning agent in connection with intaglio printing machines, Adjusting the proportion of. O. Wilhelm. 1,678,091; July 24.
Communicating and switching system. E. H. Smythe. 1,678,208; July 24.
Concentrator table. A. H. Stebbins. 1,678,364; July 24.
Concrete-road machine. E. C. Carr. 1,678,624; July 24.
Condensation product and making the same. C. O. Terwilliger. 1,678,024; July 24.
Condenser, Adjustable electric. C. H. Thordarson. 1,677,935; July 24.
Connecting device. A. W. Hebb. 1,678,467; July 24.
Container and producing the same. R. G. Clyne. 1,678,330; July 24.
Container, Fuse. R. S. Bennett. Des. 75,823; July 24.
Container or box, Dispensing and display. A. J. Tanner. 1,678,538; July 24.
Container, Storage-battery. A. K. Brumbaugh. 1,678,033; July 24.
Control apparatus, Resistance. H. J. Wiegand. 1,678,028; July 24.
Control device, Fluid-pressure-. J. C. Ericksen. 1,677,959; July 24.
Controlled switch, Automatically-. G. H. Hart. 1,678,507; July 24.
Conveying and water cooling tie plates, Mechanism for. M. Overstrud. 1,678,195; July 24.
Cooking and apparatus used in such method, Method of. A. F. Bartleson. 1,677,912; July 24.
Cooling internal-combustion engines. W. W. Muir. 1,677,981; July 24.
Cooling oil or other liquids, Apparatus for. J. Moore. 1,678,070; July 24.
Cooling system. S. W. Rushmore. 1,678,484; July 24.
Core drill. J. S. Mitchell. 1,677,925; July 24.
Corset, Reducing. M. J. Reynolds. 1,677,989; July 24.
Cotton-boll breaker and cleaner. F. B. Cumpston. 1,678,210; July 24.
Couch and the like, Adjustable. H. J. Müller. 1,678,071; July 24.
Counterweight, Band-wheel. G. E. Fentress. 1,678,286; July 24.
Coupling for rigid-frame units, Articulated. A. Franco. 1,678,428; July 24.
Cover, Can. C. F. Larsen. 1,678,399; July 24.
Cover for washing-machine tubs. F. W. Juengst. 1,678,516; July 24.
Cover, Tub. M. Smith. 1,678,306; July 24.
Crane attachment. E. H. Lichtenberg. 1,678,010; July 24.
Cream, Producing agglomerated. C. E. North. 1,678,476; July 24.
Crib or bed and the like structure. C. Vallone. 1,678,237; July 24.
Curtain and operating means therefor. R. Parisik. 1,678,229; July 24.
Cushion: *See*—
Spring cushion.
Cut-out, Electrical. W. H. Illingworth. 1,678,187; July 24.
Cut-out for gas valves, Thermostatic. R. H. Shadrick. 1,678,169; July 24.
Cutter: *See*—
Pattern cutter. Wire cutter.
Planing cutter.
Cutting implement, Hand-operated. J. Kasztler. 1,677,922; July 24.
Cutting mechanism. F. Renz. 1,678,080; July 24.
Cutting rubber sheets, Apparatus for. C. H. Desautels. 1,678,036; July 24.
Cyanides, Apparatus for the production of alkali metal. R. W. Poindexter, jr., and P. T. Dolley. 1,677,986; July 24.
Cylinder head for internal-combustion engines, Antidetonating. A. Moore. 1,678,349; July 24.
Cylinders, Quick lock-up for plate. C. S. Crafts. 1,677,955; July 24.
Dairy products, Delactating. W. J. McLaughlin. 1,677,976; July 24.
Dam and weir, Permanent. S. Höyer. 1,678,515; July 24.
Damper, Furnace. F. E. Kling and C. E. Malley. 1,678,342; July 24.
Dental handpieces, Bearing for angle attachments for. L. Andresen. 1,678,097; July 24.
Dental handpieces, Contra-angle atachment for. L. B. Andresen. 1,678,096; July 24.
Designs for reproduction, Producing. A. Fruwirth. 1,677,965; July 24.
Die: *See*—
Punching die.
Digger: *See*—
Potato digger.
Direction signal. D. W. Pratt. 1,678,197; July 24.
Dispenser. P. H. Horwitt. 1,678,339; July 24.
Dispensing device, Gasoline. J. B. Cravey and P. R. Pierson. 1,678,586; July 24.
Dispensing device, Match. E. Cole. 1,678,281; July 24.
Display appliance, Counter. W. H. Mathee. Des. 75,858; July 24.
Display box. W. J. Mitchell. 1,678,521; July 24.
Display dispenser. H. Ziemmerman. 1,678,094; July 24.
Display stand, Folding. W. H. Averill. 1,677,880. July 24.
Distributor, Insecticide. E. Fowler and J. V. Lewis. 1,678,061; July 24.
Doll's voice. T. Hutnikow. 1,678,222; July 24.
Doorcheck. F. K. Eastman. 1,678,499; July 24.
Door controller. F. E. Martin. 1,678,122; July 24.
Door, Elevator. C. W. Peelle. 1,678,196; July 24.
Door for a depository, Entrance. E. C. Hanson and B. E. Hallquist. Des. 75,842; July 24.
Door mechanism, Garage. E. Beams. 1,678,583; July 24.
Door stop and latch. J. W. Eskholme. 1,677,960; July 24.
Door structure for display cabinets. L. W. Welch. 1,678,453; July 24.
Draft appliance. C. A. Gustafson. 1,678,114; July 24.
Drain board. W. U. Griffiths. 1,678,041; July 24.
Drawer pull, Vitreous. A. C. Crimmel. 1,678,498; July 24.
Drill: *See*—
Core drill. Spindle drill.
Drill bit, Rotary. J. P. Samuelson. 1,678,201; July 24.
Driving device for the front wheels of motor cars. R. Schwenke. 1,678,447; July 24.
Drying machine. J. A. Firsching. 1,678,383; July 24.
Drying materials. J. P. Devine. 1,678,559; July 24.

Dustpan. F. Duhsel. 1,678,284; July 24.
Dyeing mixed textile goods. H. Wagner, H. Eichwede, and E. Fischer. 1,678,611; July 24.
Dyeing with vat and azo dyestuffs. W. Winterhalder. 1,678,580; July 24.
Electric machine, Dynamo. T. L. R. Cooper. 1,678,380; July 24.
Electric motor. C. H. Thordarson. 1,677,936; July 24.
Electric motor, Reciprocating. C. S. Weyandt. 1,678,278; July 24.
Electric switch. G. W. Hart. 1,678,508; July 24.
Electric switch, Automatic. R. Penn. 1,678,603; July 24.
Electric switch, Coin-controlled. G. A. Burgess. 1,678,554; July 24.
Electrically-illuminated artificial tree. E. S. Marks. 1,677,972; July 24.
Electromagnetic attachment for key-controlled mechanisms. J. W. Lambert. 1,678,492; July 24.
Electron-discharge device. M. J. Kelly. 1,678,145; July 24.
Electrothermostatic switch. N. J. Luttrell. 1,678,401; July 24.
Elevator: *See*—
Loading elevator.
Elevators, Leveling device for. E. L. Dunn. 1,678,423; July 24.
Engine: *See*—
Internal-combustion engine. Toy electric engine.
Steam engine. Uniflow engine.
Engine heater, Hot-air-. J. Koenig. 1,678,396; July 24.
Engines, Auxiliary combustion space in internal-combustion. W. E. Ernst. 1,678,212; July 24.
Engines, Combustion chamber for internal-combustion. A. Moore. 1,678,348; July 24.
Evaporating apparatus. E. Pokorny. 1,677,987; July 24.
Exterminating device for rats, squirrels, and other pests. J. H. Brophy. 1,678,178; July 24.
Extinguisher and tray, Butt. H. Rue. 1,678,406; July 24.
Fan, Combination. C. A. Connors. 1,677,888; July 24.
Fare indicator. P. Riegger. 1,678,480; July 24.
Fastener-applying device. W. Hughes. 1,677,968; July 24.
Fastener, Chain. J. L. Payton. 1,678,575; July 24.
Fastener means, Garment-. L. Roseman. 1,677,903; July 24.
Fastener, Separable. T. Repay. 1,678,166; July 24.
Fastener, Snap. G. A. Benz. 1,678,240; July 24.
Fastener tape, Garment-. L. Roseman. 1,677,904; July 24.
Fastening device for shoes. K. Schutz. 1,678,273; July 24.
Fastening device, Shoe-. G. A. Benz. 1,678,241; July 24.
Feed device, Automatic. J. W. Nasmith. 1,678,159; July 24.
Feeder, Glass. L. D. Soubier. 1,678,232; July 24.
Feeding mechanism for planers, Manually-controlled. C. F. Randolph. 1,678,302; July 24.
Fibrous material, Working. W. F. Hosford. 1,678,390; July 24.
Filing device, Heat-resisting. D. E. Hunter. 1,678,471; July 24.
Filing machine, Saw-. B. A. Branch and G. Schnurr. 1,678,279; July 24.
Filler for cigar lighters. A. L. Wallau. 1,678,494; July 24.
Filter. F. D. Herbert, W. L. Kraemer, and J. E. Garabrant. 1,677,892; July 24.
Filter, Air. E. R. Hewitt and A. F. Masury. 1,678,044; July 24.
Finger ring. P. Grill. Des. 75,838; July 24.
Fire safety device for dwellings and factories. A. Mercer. 1,678,520; July 24.
Fireplace. J. G. Johnson. Des. 75,849; July 24.
Fishing and retrieving otter. J. Hansen. 1,678,593; July 24.
Fishing lure. J. P. Shannon. 1,678,448; July 24.
Fishing reel. S. G. Russell and P. Workman, jr. 1,678,446; July 24.
Fixture. E. O. Frederics. 1,678,249; July 24.
Flexible ventilator. C. M. Wills. 1,677,910; July 24.
Flexor and stretcher, Combination shoe. W. J. Kappel. 1,678,394; July 24.
Floor and ceiling plate, Combination. J. B. Holden. 1,678,388; July 24.
Floor clip. C. L. Howard. 1,678,143; July 24.
Flotation machine. E. H. Shackelford, jr. 1,678,087; July 24.
Flotation method. G. L. Adams. 1,678,311; July 24.
Flowerpot. C. E. Carlson and A. C. Grunwald. Des. 75,829; July 24.
Fluid-control device. E. J. Kearney. 1,678,049; July 24.
Fluid-control device, Adjustable. E. J. Kearney. 1,678,050; July 24.
Flying machine. T. M. Finley. 1,677,962; July 24.
Fork: *See*—
Prong clearing fork.
Frame: *See*—
Railroad-vehicle frame. Spinning frame.
Fruit, Maturation of. D. R. Holmes. 1,678,046; July 24.
Fuel-supply system. L. S. Kellholtz. 1,677,895; July 24.
Fuel systems, Safety device for. J. T. Janette. 1,677,970; July 24.
Furnace: *See*—
Heating furnace. Plumber's furnace.
Fuse, Electric. J. D. Roberts. 1,678,481; July 24.
Fuse plug. H. J. Wheeler. 1,678,412; July 24.
Fuse, Safety. T. L. Vaughn, jr. 1,678,131; July 24.
Game apparatus. F. Cucinotto. 1,678,462; July 24.
Game apparatus. L. S. McVey. 1,678,189; July 24.
Game, Card. E. Philipp. 1,678,576; July 24.
Game device. A. R. Haslacher. 1,678,432; July 24.
Garment. J. Rimpler. 1,678,081; July 24.
Gas-absorbent bodies air-tight in liquids, Rendering. R. Oppenheim. 1,678,405; July 24.
Gas burner. H. D. Schrader. 1,678,086; July 24.
Gas-burning apparatus, Time-controlled. V. M. Tyler. 1,678,130; July 24.
Gas heater, Radiant. A. F. Thompson. Des. 75,879; July 24.
Gasoline filling station and the like. W. L. Marden. 1,677,923; July 24.
Gasoline gauge. C. E. Hanon. 1,678,115; July 24.
Gate for lehrs, ovens, and the like. R. B. Stuckey. 1,677,933; July 24.
Gauge: *See*—
Gasoline gauge. Snap gauge.
Liquid gauge. Wheel-aligning gauge.
Gauge or the like, Sash-measuring. F. J. Baker. 1,678,620; July 20.
Gear, Draft. L. A. Hoerr. 1,678,141; July 24.
Gear, Hydraulic change-speed. S. G. Wingquist. 1,677,996; July 24.
Gear structure. R. C. Allen. 1,678,582; July 24.
Gearing, Chain-drive. W. J. Belcher. 1,678,457; July 24.
Gearing for washing machines. G. More and G. Oberg. 1,678,018; July 24.
Gearing, Variable-speed. A. V. Hartmann. 1,678,289; July 24.
Generator: *See*—
Oscillation generator.
Girth, Saddle. W. P. Hulbert. 1,678,514; July 24.
Girth, Saddle. J. Wiesenfeld. 1,678,373; July 24.
Glass, Apparatus for drawing sheet. R. F. Cole. 1,678,104; July 24.
Glass, Feeding and shaping molten. E. T. Ferngren. 1,678,247; July 24.
Glass-forming machine. L. D. Soubier. 1,678,233; July 24.
Glass, Method and apparatus for feeding molten. G. E. Howard. 1,678,291; July 24.
Glass-producing apparatus, Sheet-. J. L. Drake. 1,678,060; July 24.
Glass work, Leaded. G. Le Roy. 1,678,439; July 24.
Glycerin by fermentation, Production of. J. W. Lawrie. 1,678,150; July 24.
Goblet or similar article. C. C. Beam. Des. 75,821; July 24.
Gold compounds and making same, Organic. A. Gams and P. Scheidegger. 1,678,429; July 24.
Governor. J. G. Fay. 1,677,961; July 24.
Governor for explosive engines. A. Hansen and M. J. Torp. 1,678,219; July 24.
Grating. A. H. Sloan. 1,678,362; July 24.
Grease gun. H. S. Beal. 1,677,997; July 24.
Grinder, Gear. C. Knowles. 1,678,293; July 24.
Grinding machine. E. and S. Poleske. 1,677,988; July 24.
Grinding machine. A. Zähringer. 1,678,413; July 24.
Guard, Pick-up grain. P. H. Bergen. 1,678,549; July 24.
Guide for lumber finishing machines and adjusting means therefor, Hold-over. O. W. Webb. 1,678,371; July 24.
Hair-undulating apparatus. L. F. C. C. W. Hedberg. 1,678,433; July 24.
Handle: *See*—
Ball handle. Tool handle.
Handle for a thermostatic valve. S. W. Nicholas. Des. 75,863; July 24.
Handling device and bearing Can-. J. Ruggiero. 1,678,483; July 24.
Handling device, Material. J. Daw. 1,678,382; July 24.
Harness strap. W. T. Whitaker. 1,678,544; July 24.
Harvesting machine, Cane. R. S. Falkiner. 1,678,285; July 24.
Hat, Fisherman's. P. L. Rehder. 1,678,198; July 24.
Headlight, Dirigible. B. Bergman. 1,678,495; July 24.
Headlight for automobiles, Dirigible. C. R. Stoulil. 1,678,308; July 24.
Headlight lens. C. H. Tumey, sr. 1,678,408; July 24.
Headlight, Vehicle. W. H. Wood. 1,678,093; July 24.
Headlights, Light control device for. A. S. Tjaden. 1,678,170; July 24.
Heater: *See*—
Automobile heater. Engine heater.
Heater. W. H. D'Ardenne. 1,678,059; July 24.
Heater. C. L. Wagner. 1,678,027; July 24.
Heating appliance, Electrical. B. G. Tarkington and O. F. Winsinger. Des. 75,878; July 24.
Heating furnace, Sheet-. J. W. Perry. 1,678,300; July 24.
Helmet and goggles, Adjustable. H. E. Chambers. 1,678,208; July 24.
Hinge means for casement windows. J. L. C. Heins. 1,678,512; July 24.
Holder, Adjustable die. J. J. Boax. 1,678,000; July 24.
Holder, Article. C. N. Coryell. 1,678,282; July 24.
Holder, Checker's pad. J. H. Menasco. 1,677,977; July 24.
Holder for film cameras, Spool. L. Goldhammer. 1,678,430; July 24.

Holder for golf clubs. W. F. Reach. 1,678,353; July 24.
Holder, Ice-cream. P. Kinnear. 1,678,436; July 24.
Holder, Key-ring. R. F. Menke. 1,678,016; July 24.
Holder, Line. H. E. Manofsky. 1,678,344; July 24.
Holder, Stair-rod. E. E. Found. Des. 75,833; July 24.
Hosiery. R. Friedrich. Des. 75,835; July 24.
Hot-metal mixer. L. E. Allen and J. K. Furst. 1,678,455; July 24.
Humidor. N. Martino, P. Frasca, and J. E. Oster. 1,678,260; July 24.
Hydrocarbon burner, Liquid-. W. C. Coleman. 1,678,058; July 24.
Hydrocarbons into other products, Transforming light paraffin. A. S. Ramage. 1,678,078; July 24.
Ice-cream disher. G. T. Parr. 1,677,984; July 24.
Ignition-timer wiring assembly. N. G. Hovlid. 1,678,118; July 24.
Implement for facilitating the handling of animals. S. Campbell. 1,677,953; July 24.
Index, Visible card. A. Von Auw. 1,678,541; July 24.
Indicating balance, Price-. K. Martin. 1,678,153; July 24.
Indicating mechanism, Straight-line. J. Leopold. 1,678,009; July 24.
Indicator: *See*—
Fare indicator. Speed indicator.
Indigo, Manufacture of. C. J. Strosacker and C. C. Kennedy. 1,678,619; July 24.
Insulator caps, Forging. G. H. Higgins. 1,678,594; July 24.
Insulator, Tubular. E. H. Buckley. 1,678,054; July 24.
Internal-combustion engine. J. B. Hird, jr. 1,678,221; July 24.
Iron: *See*—
Smoothing iron.
Jack: *See*—
Lifting jack.
Jewelry, Manufacturing jointed. A. Bayardi and E. E. Bayardi. 1,678,239; July 24.
Joint: *See*—
Rail joint.
Key-controlled operating mechanism. J. W. Lambert. 1,678,491; July 24.
Keyboard for typewriting machines. O. Fischer. 1,678,334; July 24.
Knife, Fruit-gatherer's. W. H. Longcor. 1,678,570; July 24.
Knitting machine, Circular-. I. W. Grothey. 1,678,385; July 24.
Knitting machine stop motions, Trip mechanism for. A. Crawford. 1,678,557; July 24.
Knitting machines, Drop-stitch mechanism for. I. W. Grother. 1,678,386; July 24.
Lamp. W. A. Winsboro. Des. 75,889; July 24.
Lamp, Automobile. W. H. Wood. 1,678,092; July 24.
Lamp body and shade holder, Electric cluster. V. R. Despard and H. C. R. Popp. 1,678,331; July 24.
Lamp, Electric. G. C. Singer. 1,678,606; July 24.
Lamp, Electromechanical. C. Bernascoui and R. M. Berthier. 1,678,496; July 24.
Lamp for automobiles, Side. S. E. Drayer. 1,678,332; July 24.
Lamp, Photographic electric. H. Niemeyer. 1,678,574; July 24.
Lamp stand, Concrete. R. S. Ellis. 1,678,500; July 24.
Lamp standard. H. H. Wolter. Des. 75,890; July 24.
Lantern, Electric safety. P. D. Payne. 1,678,351; July 24.
Latch, Automobile hood. Q. G. Noblitt. 1,678,192; July 24.
Latch for automobiles, Hood. M. H. Toncray. 1,678,025; July 24.
Latticework, Self-contained. E. M. Hünnebeck. 1,678,435; July 24.
Leer, Glassware-annealing. L. D. Soubier. 1,678,234; July 24.
Lifting jack. I. E. Dearsley. Re17,050; July 24.
Lifting jack. A. C. Hopkins. 1,678,469; July 24.
Lifting jack. T. C. Pomeroy. 1,678,531; July 24.
Light: *See*—
Side light.
Lighting fixture. A. J. D. Ohm. Des. 75,865–6; July 24.
Lighting-fixture guard. R. Pfeiffer. Des. 75,869; July 24.
Lighting fixture, Wall-bracket. J. W. Gill. Des. 75,837; July 24.
Lighting fixture, Wall-bracket. A. Tucker. Des. 75,881; July 24.
Lighting fixtures or similar articles, Bracket for. F. E. Hadermann. Des. 75,840; July 24.
Liquid gauge. J. B. Hower and J. V. Zeller. 1,678,513; July 24.
Liquids in preheaters and steam generators, Circulation of. A. Schneider. 1,678,536; July 24.
Liquids to remove or recover substances therefrom, Apparatus for treating. E. B. Miller. 1,678,299; July 24.
Loading elevator. D. W. Perin. 1,678,528; July 24.
Lock: *See*—
Rim lock.
Lock. R. E. Brown. 1,678,420; July 24.
Lock washer. E. Ward. 1,678,409; July 24.
Locking means for index cards and the like. E. Sampson, sr. 1,678,357; July 24.
Locomotive structure. H. M. Pfinger. 1,677,985; July 24.
Loom. E. F. Baldwin. 1,678,009; July 24.
Loom for weaving. J. H. and T. Hindle. 1,678,434; July 24.
Looms, Automatic stop mechanism for. J. Lucas. 1,677,899; July 24.
Looms, Feeler mechanism for. E. A. Cunniff. 1,678,587; July 24.
Looms, Picker-stick-controlling means for. J. Northrop. 1,678,268; July 24.
Looms, Shuttle-thread tension for replenishing. W. A. Tebo. 1,678,610; July 24.
Loud-speaker extension. A. B. McCall. Des. 75,859; July 24.
Lubricating and oil-separator apparatus. S. W. Rushmore. 1,678,272; July 24.
Lubricating device for axle boxes. I. Macway. 1,678,294; July 24.
Lubricating friction surfaces, Method of and apparatus for. R. R. McClure. 1,678,347; July 24.
Machine for drilling and countersinking brake linings. R. Brandt. 1,678,207; July 24.
Machine for investigating the properties of tires under loads. V. L. Smithers. 1,678,363; July 24.
Machine for making artificial flowers. M. Robinson. 1,678,482; July 24.
Machine for preparing paper to enable portions to be easily detached. W. W. Warrington. 1,678,410; July 24.
Machine for topping cans. W. L. Phillips. 1,677,928; July 24.
Machine for treating tile. L. S. Jones, G. W. Fisher, and C. G. Henrikson. 1,678,064; July 24.
Machine-shop fixture, Universal. E. Gairing. 1,677,889; July 24.
Magazine rack, Sectional. H. Spearman. 1,678,275; July 24.
Magnet steel, Permanent-. P. H. Brace. 1,678,001; July 24.
Manifold, Regenerator. W. S. Carlston. 1,678,327. July 24.
Marbles and the like, Device for projecting. N. D. Payne. 1,678,527; July 24.
Marker. A. C. Greene. 1,678,215; July 24.
Marker, Memorial grave. F. F. Fischer. Des. 75,832; July 24.
Marking machine, Cable-. A. D. Pettee. 1,677,927; July 24.
Marking X-ray film. P. K. Eaton. 1,678,038; July 24.
Measurement, Method and apparatus for distance and direction. R. L. Williams. 1,677,944; July 24.
Measuring and recording machine. L. A. Durgin. 1,678,181; July 24.
Measuring distance, Apparatus for. H. G. Dorsey and R. L. Williams. 1,678,560; July 24.
Measuring distance, Method and apparatus for. R. L. Williams. 1,677,943; July 24.
Meat curative, Making a. S. E. Colgin. 1,678,056; July 24.
Mechanical movement. F. R. Belluche. 1,678,548; July 24.
Medicinal instrument. L. M. Edens. 1,678,562; July 24.
Memorandum pad. F. Roeger. 1,678,445; July 24.
Metal articles, Treating. L. Schulte. 1,678,359. July 24.
Metals, Apparatus and method for recovering precious. J. E. Hopkins. 1,678,142; July 24.
Methyl eugenol, Manufacture of. W. G. Andrewartha. 1,678,416; July 24.
Mill, conveyer, drier, and classifier, Combined. D. Duisenberg and J. H. Macartney. 1,678,002; July 24.
Millboard product and process. R. V. Mattison. 1,678,345–6; July 24.
Milling-machine-arbor drive and support. E. J. Kearney. 1,678,048; July 24.
Mining machines and the like, Protective device for electrically operated. J. E. Dillon. 1,678,283; July 24.
Mixer: *See*—
Hot-metal mixer.
Mixing machine, Dough-. F. Notz and G. Royan. 1,678,193; July 24.
Modulation. E. Peterson. 1,678,163; July 24.
Moisture indicating and recording. G. S. Witham, jr. Re17,049; July 24.
Mold. A. Baish. 1,677,881; July 24.
Molded article and making same. G. L. Preble. 1,678,021; July 24.
Molding albumen containing masses. F. Homberg. 1,678,117; July 24.
Molds for building blocks and the like, Making. E. S. Niestradt. 1,678,266; July 24.
Molds for building blocks, Apparatus for making. E. S. Niestradt. 1,678,267; July 24.
Motor: *See*—
Electric motor. Pressure motor.
Motor commutators, Short-circuiting device for. E. P. Larsh. 1,678,517; July 24.
Motor mounting. G. H. Leland. 1,678,438; July 24.
Motor-starting switch. B. E. Getchell. 1,678,336; July 24.
Motor using projectiles. J. C. Johnston. 1,678,047; July 24.
Motors, Short-circuiting device for. G. H. Leland. 1,678,437; July 24.
Multiple shears. F. C. Biggert, jr. 1,678,458; July 24.

Musical instrument, Stringed. C. L. Dewey. 1,678,136; July 24.
Musical instruments, Resonance ring for stringed. G. Altermatt. 1,678,456; July 24.
Naphthalene in illuminating gas, Quantitative determination of. W. H. Fulweiler. 1,678,591; July 24.
Necktie. S. Riser. Des. 75,876; July 24.
Necktie. J. F. Baker. 1,678,374; July 24.
Needle plate for fur-sewing machines. H. Ross. 1,677,991; July 24.
Nitrogen and hydrogen, Making a mixture of. F. G. Liljenroth. 1,678,518; July 24.
Nozzle and control, Fuel. E. C. Lange. 1,678,398; July 24.
Nozzles, Apparatus for making. J. H. Taylor. 1,678,451; July 24.
Nursery seat. A. G. Feldman. 1,678,501; July 24.
Oil burner. A. H. Beirnes. 1,678,314; July 24.
Oil, Flotation. G. L. Adams. 1,678,312; July 24.
Oil from cod livers, Apparatus for removing. J. A Patch. 1,678,123; July 24.
Oil, Process and apparatus for cracking mineral. J. M. Schoonmaker, jr. 1,678,126; July 24.
Oil-supply-controlling apparatus for liquid-fuel burners. G. H. Messer. 1,677,978; July 24.
Oil wells, Treating. J. B. Garner and G. B. Leyden. 1,678,502; July 24.
Oiler. M. E. Benesh. 1,678,206; July 24.
Oils, Obtaining certain remedial principles of. T. F. Zucker. 1,678,454; July 24.
Opener, Can. S. Davis and A. La Fon. 1,678,244; July 24.
Ophthalmic mountings, Combined temple bar and end piece for. G. E. Norney. Des. 75,861; July 24.
Ores, Concentrating mixed sulfide. H. S. Martin. 1,678,259; July 24.
Ores in an electromagnetic way, Method and device for detecting and locating. K. Sundberg. 1,678,489; July 24.
Organ stop action. J. T. Austin. 1,678,546; July 24.
Ornament and the like and manufacture thereof, Christmas-tree. W. H. Schneider. 1,678,358; July 24.
Ornament, Automobile radiator. C. F. Bennett. Des. 75,822; July 24.
Ornament for drapery poles and rods, Center. G. Madvig. Des. 75,855-7; July 24.
Oscillation generator. F. X. Rettenmeyer. 1,678,199; July 24.
Oven, Baking. J. E. Pointon. 1,678,076; July 24.
Overalls. F. O. Mahan. Re17,047; July 24.
Oxidized products, Production of. R. B. Martin. 1,678,403; July 24.
Package of hydroscopic material, Special. C. E. Mensing and R. E. Wiley. 1,678,154; July 24.
Packing, Joint. J. A. Connelly. 1,677,884; July 24.
Pad: *See*—
Memorandum pad.
Pail. G. W. Smith. 1,677,906; July 24.
Pallet. R. V. Proctor and H. M. Schaab. 1,678,443; July 24.
Pan: *See*—
Baking pan. Dustpan.
Panel for furniture. E. Griffin. Des. 75,839; July 24.
Paper-cutting machine and gauge and carrier therefor. J. E. Mulroney. 1,678,156; July 24.
Paper-making machines, Removable-type Fourdrinier. E. E. Berry. 1,678,176; July 24.
Paper or the like, Cover. W. S. Fowler. Des. 75,834; July 24.
Paper, Writing. H. G. Prosser. 1,677,930; July 24.
Parachute. M. Schonbrun. 1,678,537; July 24.
Pattern, Arrangement for directly reproducing on fabric the required. E. A. Butin and L. Girard. 1,678,325; July 24.
Pattern cutter. H. E. Hoelzel. 1,678,186; July 24.
Pattern-reversing mechanism. R. Leveillee. 1,678,121; July 24.
Pawl-and-ratchet mechanism. R. H. Manson. 1,678,069; July 24.
Pedestal. R. Waggoner. Des. 75,883; July 24.
Pencil, Finger-tip. E. Gregory. 1,678,505; July 24.
Pentaerythrite, Preparing. H. A. Aaronson. 1,678,623; July 24.
Percolator, Coffee. R. Watson. 1,678,543; July 24.
Permanent-wave clip. F. A. Pearl. 1,678,352; July 24.
Phenols and aldehydes, Hardening the products of condensation of. L. Deutsch and I. Thorn. 1,678,108; July 24.
Phenols and aldehydes, Producing light-colored and colorfast, hard, infusible, and insoluble products of condensation of. L. Deutsch and I. Thorn. 1,678,107; July 24.
Photographic apparatus. M. Breslauer. 1,678,460; July 24.
Photographic shutter. T. M. Broeck. 1,678,179; July 24.
Photographic shutter. R. Klein. 1,678,119; July 24.
Piano, Golden harp. C. W. Pressley. Des. 75,870; July 24.
Pin for link chains, Connecting. W. J. Belcher. 1,678,315; July 24.
Pipes and the like, Shutting-off device for steam. H. Szulowitz. 1,678,204; July 24.
Pipette. S. Trenner. 1,678,540; July 24.
Piston ring. H. S. Frank. 1,678,248; July 24.
Piston, Slush-pump. W. N. Sutliff. 1,678,365; July 24.
Piston structure. A. H. Light. 1,678,151; July 24.
Pitcher. H. G. Monroe. Des. 75,860; July 24.
Pitman for pneumatic motors. F. Volare. 1,677,908; July 24.
Planing cutter. J. O. Lillander. 1,677,898; July 24.
Plastic composition. C. Conover. 1,678,105; July 24.
Plate, Cracker. D. R. Bailey. 1,678,098; July 24.
Plow. C. D. Kretzer. 1,678,343; July 24.
Plug-and-socket connecter and the like. H. Rottenburg. 1,678,082; July 24.
Plumber's furnace. O. Berns. 1,678,316; July 24.
Positioning and aligning structures in aqueous bodies. F. B. Smith. 1,678,127; July 24.
Potato digger. L. V. Thayer. 1,678,490; July 24.
Power-control device. G. H. Hines. 1,678,595; July 24.
Press: *See*—
Printing press. Steam press.
Press for the quick drying and glazing of photographic prints. L. Crayssac. 1,677,916; July 24.
Pressure motor, Counterthrust. C. G. Edwards. 1,678,424; July 24.
Printing impression plate and making same. W. J. Pippert. 1,677,929; July 24.
Printing press. R. C. Seymour. 1,677,931; July 24.
Printing process and apparatus therefor. J. M. Cooper. 1,678,497; July 24.
Prong clearing fork. P. J. Thomas. 1,678,368; July 24.
Protector, Blasting-cap. G. A. Livermore. 1,678,257; July 24.
Protector, Stocking. R. M. Gallant. 1,678,506; July 24.
Pulp, Continuous process apparatus for forming articles from. O. J. Salisbury. 1,677,905; July 24.
Pump. E. D. Copson. 1,678,556; July 24.
Pump, Dispensing. C. L. Bastian. 1,678,051; July 24.
Pump, Fluid. M. Bennitt. 1,678,052; July 24.
Pump, motor, meter, or the like, Rotary. C. O. J. Montelius. 1,677,980; July 24.
Pumping device. T. H. Walker. 1,678,612; July 24.
Punching die. J. G. Blessing. 1,678,319; July 24.
Purifying sugar solutions. F. W. Meyer. 1,678,571; July 24.
Rack: *See*—
Magazine rack. Roll rack.
Rack for articles. A. H. Canfield. Des. 75,828; July 24.
Radiator cap. R. H. Hummert. Des. 75,847; July 24.
Radiator, lamp casing, and hood for motor vehicles, Combined. E. G. Shalkhauser. Des. 75,877; July 24.
Radiocabinet, Console. J. O. Bergman. 1,678,032; July 24.
Radiocabinet or similar article. G. Calafato. Des. 75,827; July 24.
Radio signal receivers, Accessory for. S. N. Fleming. 1,678,288; July 24.
Radio signaling system. W. H. F. Holden. 1,677,967; July 24.
Radiotube and operating same. E. L. Koch. 1,677,896; July 24.
Radiotubes, Degasifying. F. S. McCullough. 1,677,900; July 24.
Rail joint. J. M. Hufft. 1,678,391; July 24.
Railroad-vehicle frame. A. W. Bruce. 1,678,323-4; July 24.
Range, Coal and wood. J. H. Sandell. Des. 75,875; July 24.
Range finder. G. Grimth. 1,678,062; July 24.
Rayon manufacture. G. A. Richter. 1,678,354; July 24.
Reaping or harvesting machine for harvesting hemp or similar stalks or crops. H. I. Cromer. 1,678,134; July 24.
Recompressor, Spring. N. Sulentic. 1,677,934; July 24.
Reel: *See*—
Fishing reel.
Reel. L. Johnson. 1,678,472; July 24.
Reeling machine. P. J. Thomas. 1,678,367; July 24.
Refining oils and waxes. W. A. Patrick and E. B. Miller. 1,678,298; July 24.
Refrigerating apparatus, Absorption. J. O. Boving. 1,678,242; July 24.
Refrigerating apparatus, Valved fitting for. J. G. King and H. B. Hull. 1,678,147; July 24.
Refrigerating plant. I. Amundsen. Re17,045; July 24.
Refrigerating system. H. W. Tohtz and K. L. Bonnell. 1,678,172; July 24.
Refrigeration. J. L. Schiltt and W. Dennis. 1,678,485; July 24.
Refrigeration. B. C. von Platen and C. G. Munters. 1,678,277; July 24.
Refrigerator. H. W. Tohtz and K. L. Bonnell. 1,678,171; July 24.
Refrigerator. C. F. Wade. Des. 75,882; July 24.
Regulating apparatus. E. J. Serpas. 1,677,992; July 24.
Relasting machine. A. F. Pym. 1,678,164; July 24.
Repair device for auto skid chains. F. G. Fahrbach. 1,678,003; July 24.
Retainer for dough-mixing machines and the like, Packing. F. Notz and G. Royan. 1,678,194; July 24.
Revivifying of spent decolorizing materials. O. L. Barnebey. 1,677,947; July 24.
Rim lock. C. G. Bloom. 1,678,550; July 24.
Ring: *See*—
Piston ring.
Ring and the like, Hog. W. V. and J. B. Curtis. 1,678,558; July 24.

Road-maintenance machine. C. A. Gustafson. 1,678,113; July 24.
Rods for welding, Apparatus for producing. C. Kotchi and F. J. Rode. 1,678,148; July 24.
Roll rack. A. M. Guillet. 1,678,506; July 24.
Roller assembly, Spring-. H. Dixson. 1,678,590; July 24.
Roof and shingle securing means. C. C. Figge. 1,678,333; July 24.
Roof for closed vehicle bodies. R. W. Maudslay. 1,678,262; July 24.
Rubber, Producing vulcanized. W. Scott. 1,678,084-5; July 24.
Safety appliance, Elevator. J. N. Anderson. 1,678,031; July 24.
Safety appliance, Oil-reservoir. G. L. Ticehurst. 1,678,539; July 24.
Salts of 3-acetylino-4-hydroxyphenyl arsenic acid and preparing the same. E. Fourneau. 1,677,964; July 24.
Sanding mechanism, Vehicle. A. W. Reed. 1,678,604; July 24.
Sanitary seat cover. A. Mueller. 1,678,296; July 24.
Sash counterbalance, Window-. G. C. Roedl. 1,678,444; July 24.
Sash holder and starter, Combined. E. F. Chaffee. 1,678,243; July 24.
Saw and slab kicker, Combination trimming. W. M. Eddins. 1,677,958; July 24.
Scoop or shovel, Snow. G. L. Crosman and A. P. Nason. 1,678,135; July 24.
Scraper. J. J. Stillwaggon. 1,678,488; July 24.
Screw driver. G. Perrault. 1,678,124; July 24.
Seat: *See*—
Nursery seat.
Seeds to augment their cultural value, Treating. A. C. Bennett. 1,678,418; July 24.
Server for slices of bread and the like. W. Van Sickle. 1,677,938; July 24.
Sewing machine. W. J. Steere. 1,677,932; July 24.
Sewing machines, Feeding mechanism for. C. W. Mueller. 1,678,191; July 24.
Shade, Lighting-fixture. A. J. D. Ohm. Des. 75,867; July 24.
Shades, Securing draw sticks in window. E. Reukauf, jr. 1,678,534; July 24.
Shaft, Flexible. R. M. Gaston. 1,678,335; July 24.
Shaft mechanism for the slay of looms, Crank-. H. Wolff. 1,678,238; July 24.
Shaker, Combination salt and pepper. A. J. Scott. 1,678,487; July 24.
Shaving combination. R. L. Cleary. 1,677,954; July 24.
Shearing machine, Fabric-. J. Monforts. 1,678,572; July 24.
Shield and making the same, Antiglare. R. M. Gruss. 1,678,218; July 24.
Shield for headlights, Reflector. G. A. Hendey and R. A. Schatzel. 1,678,250; July 24.
Shock absorber. C. E. Bond. 1,677,949; July 24.
Shock absorber for vehicles. M. E. Greenhouse. 1,678,040; July 24.
Shoe box. M. Wolock. Des. 75,891; July 24.
Shoe materials, Method of and apparatus for softening. F. M. Furber. 1,678,139; July 24.
Shoes and parts thereof, Apparatus for heating and softening. F. M. Furber. 1,678,140; July 24.
Shoes, Manufacture of. A. F. Pym. 1,678,165; July 24.
Shoes, Strengthening device for. K. Schutz. 1,678,274; July 24.
Shore bracket. G. B. Bosco. 1,678,177; July 24.
Show case. R. Sideman. 1,678,088; July 24.
Shrine. E. J. Wees. Des. 75,884; July 24.
Side light. A. J. Marshall. 1,678,261; July 24.
Sign, Animated. S. J. Blocker. 1,678,320; July 24.
Sign or bulletin board, Interchangeable. C. Hansen. 1,677,919; July 24.
Sign, Transfer. J. W. Kaber. 1,678,341; July 24.
Signal: *See*—
Automobile signal. Traffic signal.
Direction signal. Vehicle signal.
Signal device. G. Hulme. 1,678,470; July 24.
Signal reception. H. T. Friis. 1,678,183; July 24.
Signaling, Power-line. W. V. Wolfe. 1,678,133; July 24.
Signaling, Submarine. J. J. Gilbert. 1,678,184; July 24.
Signaling system, Carrier. E. I. Green. 1,677,966; July 24.
Skate. P. Vincent. 1,678,579; July 24.
Sleeping bag. M. Petrescu. 1,678,125; July 24.
Slitting machine. F. G. Crane. 1,677,915; July 24.
Slitting machine. R. M. Johnstone. 1,678,340; July 24.
Smoke-chamber lining. J. D. Covert. 1,677,914; July 24.
Smoker's article. A. A. Badler. 1,677,946; July 24.
Smoothing iron. H. S. Woodruff. 1,678,310; July 24.
Snap gauge, Adjustable. F. O. Hoagland. 1,678,290; July 24.
Socket, Adjustable candle. H. Hubbell. 1,678,144; July 24.
Sound-producing device. T. Hutnikow. 1,678,223; July 24.
Sound-producing instrument. W. Brandegger. 1,678,553; July 24.
Sound-reproducing machine, Attachment for. A. Humphrey. 1,678,568; July 24.
Sound transmission, Method and apparatus for. R. L. Williams. 1,677,945; July 24.
Speed driving mechanism, Variable-. B. P. Graves. 1,678,384; July 24.
Speed indicator, Audible. K. G. Magni. 1,678,402; July 24.
Speed mechanism with two reverse gears, Selective change. G. Wirrer. 1,678,029; July 24.
Speedometer. P. A. Robbins. 1,677,990; July 24.
Spindle drill, Radial multiple-. J. J. Boax and B. S. Robinoff. 1,677,999; July 24.
Spinning frame. J. P. Garey. 1,678,039; July 24.
Spinning machine for spinning artificial silk. A. Wagner. 1,677,940; July 24.
Spool. H. Brucker. 1,677,951; July 24.
Spring: *See*—
Vehicle spring.
Spring cushion. W. Lewis. 1,678,400; July 24.
Spring suspension for automobile chassis frames. R. C. Bicknell. 1,677,948; July 24.
Stamp, Rotary box. G. Differ. 1,678,589; July 24.
Stand: *See*—
Display stand. Lamp stand.
Steadying device for rotatable flag standards or poles. R. B. Peters. 1,678,529; July 24.
Steam boiler. D. S. Jacobus. 1,677,969; July 24.
Steam boiler. W. Stender. 1,678,235; July 24.
Steam engine. E. W. Swartwout. 1,678,309; July 24.
Steam-generating unit, Marine. J. J. Nellis. 1,677,901; July 24.
Steam press, Ironing. P. Diebold. 1,678,464-5; July 24.
Steel fabrication, Structural-. R. L. McIntyre. 1,678,013; July 24.
Steel printing body and producing the same. H. S. Sadtler. 1,678,231; July 24.
Stocking. A. M. A. Hoffman. Des. 75,846; July 24.
Storage battery, Lead. A. Kastelic. 1,678,224; July 24.
Store-shelving front unit. J. B. Murdoch. 1,678,522; July 24.
Stove, Cook. G. E. Pickup. 1,678,269; July 24.
Strand-severing mechanism. E. F. Baldwin. 1,678,100; July 24.
Strap: *See*—
Harness strap.
Sublimator. F. A. Pearl. 1,678,442; July 24.
Suction cleaner. W. A. Frantz. 1,678,111; July 24.
Suction roll. A. N. Russell and B. A. Malkin. 1,678,083; July 24.
Superheater boiler. W. F. Keenan, jr. 1,677,894; July 24.
Support, Foot-arch. H. Sochor. 1,678,608; July 24.
Support for electric light, gas, and other purposes, Movable. J. Dugdill. 1,678,422; July 24.
Support, Overhead. C. M. Goodrich. 1,678,431; July 24.
Support, Resilient. R. W. Davis. 1,678,034; July 24.
Surgical needle. C. G. Shearon. 1,678,361; July 24.
Switch: *See*—
Controlled switch. Electrothermostatic switch.
Electric switch. Motor-starting switch.
Switch connection for railroads, Adjustable trailing. N. D. Preston. 1,678,618; July 24.
Switching system, Automatic. A. Barnay. 1,678,318; July 24.
Syringes, Tip for hydrometer. M. S. Lower. 1,678,600; July 24.
Table: *See*—
Concentrator table.
Table and casing for a washing machine or the like, Combined. M. A. Defibaugh. Des. 75,830; July 24.
Table or similar article. J. J. Heyman. Des. 75,843-4; July 24.
Tabulating machines, Analyzer unit for. W. W. Lasker. 1,677,897; July 24.
Tack, Thumb. H. C. Karst. 1,678,473; July 24.
Tank breather, Oil-storage-. G. H. Bowlus. 1,678,376; July 24.
Tanks, Safety device for. H. T. Scott and L. E. Rone. 1,678,605; July 24.
Tap changer. G. H. Tuttle. 1,678,129; July 24.
Teaching device, Self-. W. H. Holmes. 1,678,621; July 24.
Telegraph exchange system, Printing-. R. D. Parker and D. B. Perry. 1,677,983; July 24.
Telegraphic and telephonic receiving circuits. C. K. Chandler. 1,677,885; July 24.
Telephone receiver. A. J. Roberts. 1,678,271; July 24.
Telephone receiver. M. C. Rorty and J. C. Patter. 1,678,200; July 24.
Telephone system. H. C. Caverly. 1,678,103; July 24.
Telephone system. L. L. Eagon. 1,677,957; July 24.
Telephone system. R. W. Harper. 1,678,185; July 24.
Telephone system, Manual. J. H. Levis, jr. 1,678,068; July 24.
Telephone system. L. A. Mortimer. 1,678,190; July 24.
Telephone system, Automatic. H. M. Friendly. 1,678,503; July 24.
Telephone system, Automatic. R. G. Richardson. 1,678,304. July 24.
Telephone systems, Selecting device for. P. Quassowski. 1,678,301; July 24.
Television. L. W. Skala. 1,678,132; July 24.
Temperature controller for oil-separating towers. R. H. Carr and C. B. Watson. 1,678,328; July 24.
Temperature regulation. C. L. Hortier. 1,678,213; July 24.
Tension device for newspaper-roll stands. C. A. Dresser and E. W. Hammer. 1,678,109; July 24.

Testing abrasion resistance, Apparatus for. F. A. Fahrenwald. 1,678,110; July 24.
Testing machine. F. A. Valentine and D. C. Scott. 1,678,369; July 24.
Testing machine, Flex-. T. Midgley. 1,678,017; July 24.
Textile fabric. H. F. Tiedeman. Des. 75,880; July 24.
Theft-preventing device. J. F. White. 1,678,174; July 24.
Thermometer, Oil. A. Holmes. 1,678,389; July 24.
Thermostat. J. A. Spencer. 1,678,407; July 24.
Thermostat, Electrically-operated. G. H. Whittingham. 1,678,372; July 24.
Tile, Weight-supporting. N. D. Smith. 1,677,907; July 24.
Timer. F. J. Palky. 1,678,161; July 24.
Tire. A. E. Jones. Des. 75,850; July 24.
Tire. C. M. Manly. 1,678,014; July 24.
Tire, Combination solid and pneumatic. M. Bowdan. 1,678,419; July 24.
Tire, Pneumatic. G. F. Davidson. 1,678,211; July 24.
Toaster. D. F. Halifax. 1,678,337; July 24.
Tool. E. B. King. 1,678,598; July 24.
Tool. E. P. Tournier. 1,678,173; July 24.
Tool, Battery. B. L. S. Atkinson. 1,678,315; July 24.
Tool handle. L. B. Andresen. 1,678,095; July 24.
Tool, Pin-holding. F. F. Prosch. 1,678,270; July 24.
Toothpick. F. Spanier. 1,678,209; July 24.
Toy. E. Reek. Des. 75,871; July 24.
Toy construction outfit. G. G. Oldfield. 1,678,602; July 24.
Toy electric engine. J. Keenig. 1,678,397; July 24.
Toy, Figure wheeled. G. B. Lynch. 1,678,519; July 24.
Toy pistol. J. D. Kilgore. 1,678,597; July 24.
Toy railways, Rail-joint connection for. L. Reischl. 1,678,079; July 24.
Toy representing a turkey gobbler. I. R. Leigh. 1,678,226; July 24.
Toy, Wheel-bearing figure. C. A. Wetzell. Des. 75,887–8; July 24.
Track for vehicles, Endless. F. B. Lamb. 1,678,149; July 24.
Tractors, Hoist attachment for. H. S. Myers. 1,678,158; July 24.
Traffic-controlling apparatus, Railway-. C. W. Sproull. 1,678,276; July 24.
Traffic signal, Electric. W. W. Whitmore. 1,677,942; July 24.
Traffic signal, Street. K. E. Erickson. Des. 75,831; July 24.
Trailer, Self-loading. E. E. Kellems. 1,678,395; July 24.
Train control. W. K. Howe. 1,678,614; July 24.
Train control. W. K. Howe and C. S. Bushnell. 1,678,615; July 24.
Train-control system for railroads, Continuous inductive. E. H. Loftin. 1,678,617; July 24.
Train-control system or the like, Automatic. O. A. Ross. 1,678,577; July 24.
Train-pipe connecter, Automatic. J. Robinson. 1,677,902; July 24.
Tramway lines, Laying. A. Boutillon. 1,678,552; July 24.
Transformers and the like, Casing for electric. O. Wehrle. 1,678,090; July 24.
Translation system, Electric-wave. A. A. Oswald. 1,678,160; July 24.
Transmission. R. Schoell. 1,678,486; July 24.
Transmission-control system. K. O. Thorp. 1,678,128; July 24.
Transmission, Electric wave. H. C. Mathes. 1,678,188; July 24.
Transmission of mechanical vibratory energy, Device for the. H. C. Harrison. 1,678,116; July 24.
Transmitter for high-frequency sound signaling. M. S. Estes. 1,678,182; July 24.
Trap. E. P. Seghers. 1,678,168; July 24.
Tray, Ash. W. H. Herssenbrugge. 1,678,375; July 24.
Tray, Display. F. M. Simons. 1,678,449; July 24.
Tray or similar article. L. W. Rice. Des. 75,872; July 24.
Treating rubber latex and products obtained thereby. O. H. Smith. 1,678,022; July 24.
Truck, Dump. W. Janssen. 1,678,569; July 24.
Truck for locomotive engines. J. G. Blunt. 1,678,321; July 24.
Truck for railroad vehicles, Four-wheeled. J. G. Blunt. 1,678,322; July 24.
Tube-working machines, Cap-applying means for. W. T. Davis. 1,678,463; July 24.
Tubes, Making inner. E. W. Melvin. 1,678,015; July 24.
Tumbler, Glass. R. S. Giese. Des. 75,836; July 24.
Tumbler, Glass. H. L. Lissfelt. Des. 75,853; July 24.
Tuning device. D. E. Rockenfelder. 1,678,535; July 24.
Turbine. C. J. Lamb. 1,678,065; July 24.
Turbine-cooling means. C. J. Lamb. 1,678,066–7; July 24.
Umbrella. A. A. Zwiebel. 1,678,414; July 24.
Underreamer, Expansible rotary. J. T. Phipps. 1,678,075; July 24.
Uniflow engine. H. A. Chase. 1,678,209; July 24.
Unloading apparatus, Car-. W. E. Dickinson and J. J. Morgan. 1,678,245; July 24.
Upholstery construction. M. Krause. 1,678,474; July 24.
Vacuum cleaner. J. K. Johnson. 1,677,921; July 24.
Valve. W. H. Stadden. 1,677,993; July 24.
Valve, Electric. P. F. Shivers. 1,678,202; July 24.
Valve for fluid-fuel burners. A. Bowland. 1,678,459; July 24.
Valve mechanism, Electropneumatic. B. B. Austin. 1,678,547; July 24.
Valve, Mixing. J. H. Tritz. 1,677,995; July 24.
Valve-operating mechanism, Waste-. B. R. Iresler. 1,678,102; July 24.
Valve, Swinging-spout. F. G. Brotz. 1,678,377; July 24.
Vaporizer, Fuel. W. H. Hill. 1,678,045; July 24.
Variable resistance. E. C. Ballman. 1,677,886; July 24.
Vase or similar article. H. L. Budd. Des. 75,825; July 24.
Vehicle, Auto marine. A. E. Cook. 1,678,180; July 24.
Vehicle body and method of handling goods, Pick-up. W. H. Clarke and B. G. Cook. 1,678,329; July 24.
Vehicle brake. E. B. Flanigan. 1,678,427; July 24.
Vehicle construction, Motor-. D. F. Donizi. 1,677,917; July 24.
Vehicle signal. J. H. Tann. 1,678,366; July 24.
Vehicle spring. R. W. Davis. 1,678,035; July 24.
Vehicle spring. J. Parkhill. 1,678,526; July 24.
Vehicle, Attachment for automotive. J. J. Hillery. 1,678,007; July 24.
Vending machine, Automatic newspaper. E. Vinogradov. 1,677,939; July 24.
Vending machine, Check-controlled. A. Forney. 1,678,502; July 24.
Ventilating strips for transformers, Making. F. H. Tupper. Re17,048; July 24.
Ventilator: *See*—
Car ventilator.
Flexible ventilator.
Vest. F. A. Bieberstein. 1,677,913; July 24.
Vise automatic, Auxiliary. D. C. Scougal. 1,678,360; July 24.
Vulcanizing. R. Hansen. 1,678,042; July 24.
Wagon and truck dump. W. G. Hancock and L. T. Stromswold. Re17,046; July 24.
Wall-paper border. C. W. Weston. Des. 75,886; July 24.
Warp stop motion. H. E. Khoury. 1,678,253–5; July 24.
Washer: *See*—
Lock washer.
Washing device, Can-. I. H. Kendall. 1,678,252; July 24.
Washing machine. T. M. Klutts. 1,678,120; July 24.
Washing or dyeing material. J. Brenzinger. 1,678,053; July 24.
Watch charm or similar article. J. A. Blewett. Des. 75,824; July 24.
Water, Heating, deaerating, and evaporating. G. H. Gibson. 1,677,890; July 24.
Water-softening apparatus. W. H. Green. 1,677,891; July 24.
Water tube for furnace walls. H. B. Bradford. 1,677,887; July 24.
Weaving machine, Reed-. M. B. Lloyd. 1,678,011–12; July 24.
Well apparatus. J. T. Phipps. 1,678,073–4; July 24.
Wheel: *See*—
Abrasive wheel.
Wheel. D. T. Phillips. 1,678,530; July 24.
Wheel-aligning gauge. I. W. Munden. 1,678,157; July 24.
Whippers, Operating mechanism for. G. A. Herron. 1,678,468; July 24.
Whipping or agitating cream. C. E. North. 1,678,477; July 24.
Winding machine. J. A. Cameron. 1,678,326; July 24.
Window. E. L. O. and R. E. Patten. 1,678,479; July 24.
Window, Metal. J. H. Byrnes. 1,677,952; July 24.
Windows and the like, Stay for casement. E. Heffernan. 1,678,511; July 24.
Windows, Device for opening and closing attic. F. Petersen and H. Krüsmann. 1,678,020; July 24.
Wire cutter. C. Bonon. 1,678,551; July 24.
Wood and product thereof, Treatment of. B. Ford. 1,677,963; July 24.
Wrapping machine. H. H. Metcalf. 1,677,924; July 24.
Wrench. R. J. Greer. 1,678,216; July 24.
Wrench. B. O. Wade. 1,677,969; July 24.
Writing implements, Attachment for. J. M. Utrilla. 1,678,578; July 24.
Zinc, Metallurgy of. J. A. Singmaster, F. G. Breyer, and E. H. Bunce. 1,678,607; July 24.

CLASSIFICATION OF PATENTS

ISSUED JULY 24, 1928.

NOTE.—First number=class, second number=subclass, third number=patent number.

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142: 1,678,462
152: 1,678,576
280— 33.2: 1,678,585
33.44: 1,678,114
104: 1,677,948
281— 19: 1,678,445
283— 45: 1,677,930
285— 10: 1,677,884
285— 24: 1,677,902
286— 33: 1,678,194
291— 3: 1,678,604
292— 5: 1,678,243
110: 1,677,960
114: 1,678,025
1,678,192
201: 1,678,122
272: 1,678,511
294— 44: 1,678,313
296— 28: R. 17,051
97: 1,678,218
137: 1,678,262
297— 14: 1,678,407
298— 12: 1,678,569
299— 30: 1,678,061
300— 21: 1,677,920
1,678,545
303— 18: 1,678,106
1,678,276
52: 1,677,959
304— 40: 1,678,177
305— 10: 1,678,149
308— 54: 1,678,152
72: 1,677,937
79: 1,678,294
203: 1,678,483
312— 6: 1,678,415
7: 1,678,032
38: 1,678,220
42: 1,678,094
57: 1,677,939
61: 1,678,339
67: 1,677,938
77: 1,678,281
80: 1,678,355
135: 1,678,088
138: 1,678,453

July 31, 1928

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Aarons, Augusten, to A. Aarons Co. Inc., New Orleans, La., successor. Veterinary remedy. 71,904; renewed Dec. 22, 1928.

Acme Mercantile Corporation. (See Meyer, Albert C.)

Advertising Golf Ball Corporation, New York, N. Y. Golf balls. 244,897–9; July 31; Serial Nos. 263,910–12; published May 15, 1928. Class 22.

Allied Barrel Company, Oil City, Pa. Wooden barrels and kegs. 244,977; July 31; Serial No. 263,808; published May 22, 1928. Class 2.

Altenberg, George P., Cincinnati, Ohio, assignor, by mesne assignments, to The American Thermos Bottle Company, Norwich, Conn. Bottles and jars. 70,444; renewed Sept. 1, 1928.

American Fertilizing Company, Norfolk, Va. Fertilizers. 69,475; renewed June 16, 1928.

American Thermos Bottle Company, The. (See Altenberg, George P., assignor.)

Amundson, Elven J., Grand Forks, N. Dak., and Chicago, Ill. Reeds. 244,942; July 31; Serial No. 261,474; published May 22, 1928. Class 36.

Apt Products Co. (See Rosenberg, Abraham.)

Bach, Engelbert, Taylorville, Ill. Liniment. 71,702; renewed Dec. 15, 1928.

Baer & Wilde Company, Attleboro, Mass. Shirt studs. 245,009; July 31. Class 28.

Bamberger, L., & Company, Newark, N. J. Perfumes, toilet waters, etc. 244,961; July 31; Serial No. 258,159; published May 22, 1928. Class 6.

Barker, Moore & Mein Co., Inc., The, Philadelphia, Pa. Condition powder. 244,894; July 31; Serial No. 264,006; published May 15, 1928. Class 6.

Bartmann & Bixer Inc., New York, N. Y. Shower sheets. 244,984; July 31; Serial No. 262,642; published May 22, 1928. Class 13.

Bartz, Wygant & Brown, Inc., assignor, by mesne assignments, to The A. J. Deer Company, Inc., Hornell, N. Y. Machinery. 69,658; renewed June 30, 1928.

Benchetrit, Aaron, New York, N. Y. Ointment for the treatment of leprosy. 244,992; July 31; Serial No. 257,769; published May 15, 1928. Class 6.

Blair, J. C., Company, Huntington, Pa. Paper, envelops, tablets, and blank books. 71,143; renewed Nov. 3, 1928.

Blood, George H., jr., doing business as O. K. Peanut Butter Co., Marlboro, Mass. Peanut butter. 244,893; July 31; Serial No. 264,008; published May 15, 1928. Class 46.

Booth, A., and Company, Chicago, Ill.; Baltimore, Md.; St. Paul, Duluth, and Minneapolis, Minn.; St. Louis, Mo.; Louisville, Ky.; Omaha, Nebr.; Indianapolis, Ind., and Port Arthur, Canada, assignor to Booth Fisheries Company, Chicago, Ill. Canned salmon. 71,488; renewed Nov. 24, 1928.

Borden & Remington Co., Fall River, Mass. Preparation of carob in paste or powdered form. 244,841; July 31; Serial No. 256,394; published May 22, 1928. Class 46.

Bortoni, G., y Cia. Sucr. (See Volpe, Miguel F.)

Bourjois, Inc. (See Wertheimer, E., & Cie., assignor.)

Bowers, Edward C., and Charles L. Feldman, receivers for Wickwire Spencer Steel Company, New York, N. Y. Perforated metal. 244,832; July 31; Serial No. 260,204; published May 15, 1928. Class 14.

Brand, William, & Co., New York, N. Y. Filling and sealing compounds. 244,958; July 31; Serial No. 264,348; published May 22, 1928. Class 6.

Braun, George F., doing business as Druggist Products Co., Philadelphia, Pa. Compounds. 244,868; July 17; Serial No. 264,071; published May 22, 1928. Class 6.

Buffalo Bronze Die Cast Corporation, Buffalo, N. Y. Metal alloy. 244,934; July 31; Serial No. 262,894; published May 15, 1928. Class 14.

Burke Golf Company, The, Newark, N. J. Golf balls, clubs, tees, and bags. 244,887; July 31; Serial No. 260,871; published May 8, 1928. Class 22.

Burson Knitting Company, Rockford, Ill. Hosiery. 71,429–30; renewed Nov. 24, 1928.

Cardwell Brokerage Co., Yakima, Wash. Fresh Irish potatoes. 244,968; July 31; Serial No. 260,555; published May 22, 1928. Class 46.

Carpenter Steel Company, The, Reading, Pa. Tool steels. 244,863; July 31; Serial No. 263,686; published May 15, 1928. Class 14.

Central Falls Bottling Company. (See Keron, Frank H.)

Cleveland Heater Company, The, Cleveland, Ohio. Metal pipe fittings, valves, etc. 244,817; July 31; Serial No. 237,405; published May 22, 1928. Class 13.

Cleveland Varnish Company, The, assignor to The Cleveland Varnish Company, Cleveland, Ohio. Varnishes, japans, etc. 70,301; renewed Aug. 18, 1928.

Coe, W. H., Manufacturing Company, Providence, R. I. Gliding tools. 70,321; renewed Aug. 18, 1928.

Cohn & Rosenberger, Inc., New York, N. Y. Pearls, necklaces, earrings, hatpins, etc. 244,928; July 31; Serial No. 263; published May 22, 1928. Class 28.

Colgate & Company, Jersey City, N. J., and New York, N. Y. Preparation for cleaning, brightening, and polishing silver and other metals. 245,002; July 31. Class 4.

Columbus Washboard Co. (See Martin, Frederic, sr.)

Commerce Drug Co., Inc., Brooklyn, N. Y. Remedy for corns. 245,014; July 31. Class 6.

Cream of Wheat Company, Minneapolis, Minn. Wheat breakfast food. 244,892; July 31; Serial No. 264,021; published May 15, 1928. Class 46.

Cream of Wheat Company, Minneapolis, Minn. Wheat breakfast food. 244,896; July 31; Serial No. 263,929; published May 15, 1928. Class 46.

Crystal Gelatine Company, Boston, Mass. Gelatin. 70,410; renewed Aug. 25, 1928.

Cubbison, Harry G., doing business as Cubbison Cracker Co., Los Angeles, Calif. Wafers. 244,901; July 31. Serial No. 264,082; published May 15, 1928. Class 46.

Curtis Lighting, Inc., Chicago, Ill. Electric-light installation unit and outfit. 244,926; July 31; Serial No. 263,378; published May 22, 1928. Class 21.

Curtis, Nick, New York, N. Y. Preparation for restoring eyesight. 244,909; July 31; Serial No. 256,813; published May 15, 1928. Class 6.

Daimler-Motoren-Gesellschaft, Unterturkheim, near Stuttgart, by change of name to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Vehicles and parts thereof. 69,756; renewed June 30, 1928.

Day, W. Jule, New York, N. Y. Paste and ready-mixed paints and lacquers. 244,938; July 31; Serial No. 262,349; published May 22, 1928. Class 16.

De Cock, John J., East Rutherford, N. J. Herbs in tea tablets, powder, and oil form. 244,864; July 31; Serial No. 263,865; published May 22, 1928. Class 6.

Deer, A. J., Company, The. (See Bartz, Wygant & Brown, Inc., assignors.)

Dickman, I., & Sons, Brooklyn, N. Y. Canned fruits, canned vegetables, etc. 244,815; July 31; Serial No. 238,777; published May 22, 1928. Class 46.

Dinhofer Bros. Inc., New York, N. Y. Watches, watch movements, and watchcases. 244,929; July 31; Serial No. 263,117; published May 22, 1928. Class 27.

Dinhofer Bros. Inc., New York, N. Y. Finger rings, bar pins, bracelets, watch tabs, etc. 244,930; July 31; Serial No. 263,116; published May 22, 1928. Class 28.

Disston, Henry, & Sons, Incorporated, Tacony, Philadelphia, Pa. Screw drivers. 70,857; renewed Oct. 13, 1928.

Disston, Henry, & Sons, Incorporated, Tacony, Philadelphia, Pa. Posthole diggers. 70,859; renewed Oct. 13, 1928.

Disston, Henry, & Sons, Incorporated, Tacony, Philadelphia, Pa. Saws. 70,860; renewed Oct. 13, 1928.

Disston, Henry, & Sons, Incorporated, Tacony, Philadelphia, Pa. Hand-operated screw drivers. 71,131; renewed Nov. 3, 1928.

Dodge Manufacturing Corporation, Mishawaka, Ind., and Oneida, N. Y. Shaft supports, shaft hangers, bearings, etc. 244,945; July 31; Serial No. 205,323; published May 22, 1928. Class 23.

D'Orsay Perfumeries Corporation, New York, N. Y. Perfumes, perfume extracts, bath salts, etc. 244,873; July 31;. Serial No. 253,319; published May 22, 1928. Class 6.

Double Tooth Size Manufacturing Company, Des Moines, Iowa. Painter's size. 244,939; July 31; Serial No. 261,951; published May 22, 1928. Class 16.

Druggist Products Co. (See Braun, George F.)

Dubler, Herman, New York, N. Y. Canned fresh cape lobster. 71,780; renewed Dec. 15, 1928.

Dushé Products Company, Brooklyn, N. Y. Pharmaceutical preparation. 244,944; July 31; Serial No. 261,051; published May 22, 1928. Class 6.

Eagle Pencil Company, assignor to Eagle Pencil Company, New York, N. Y. Lead pencils. 71,223; renewed Nov. 10, 1928.

Eastman Kodak Company, Rochester, N. Y. Electrical illuminating outfits. 244,933; July 31; Serial No. 262,904; published May 22, 1928. Class 21.

Emmental Cheese Corporation, New York, N. Y. Cheese. 244,904–5; July 31; Serial Nos. 255,236–7; published May 15, 1928. Class 46.

Empire Silk Company, New York, N. Y. Silk piece goods. 244,851; July 31; Serial No. 264,813; published May 22, 1928. Class 42.

Evans Chemical Company, The, Cincinnati, Ohio. Medicine. 69,151; renewed May 19, 1928.

Everseal Manufacturing Co. Inc., New York, N. Y. Ready-mixed paints. 244,960; July 31; Serial No. 264,282; published May 22, 1928. Class 16.

Exersager Corporation, The, St. Louis, Mo. Massaging appliances. 244,890; July 31; Serial No. 260,437; published May 15, 1928. Class 44.

Fair-Plex Company. (See Plough Chemical Company.)

Fargason, J. T., Grocer Co., Memphis, Tenn. Canned fruits and fruit preserves, etc. 244,813; July 13; Serial No. 244,144; published May 22, 1928. Class 46.

Faris, T. S., doing business as T. S. Faris' Magic Remedy Company, Colorado Springs, Colo. Salve. 244,947; July 31; Serial No. 235,133. published May 15, 1928. Class 6.

Farrand, Clair L., Long Island City, N. Y. Musical instruments. 245,006; July 31. Class 36.

Felix Tempest Co., Los Angeles, Calif., assignor, by mesne assignments, to Dorothy K. Kerr, doing business as Felix Tempest Co., Brooklyn, N. Y. Hair Wash. 69,597; renewed June 23, 1928.

Felton Chemical Company, Inc., Brooklyn, N. Y. Aldehydes, alcohol, and sythetic oils. 244,871; July 31; Serial No. 264,092; published May 22, 1928. Class 6.

Finch, L. S., Chemical Corporation, Los Angeles, Calif., White wood filler lacquers, varnishes, brush wash, etc. 244,839; July 31; Serial No. 257,794; published May 22, 1928. Class 16.

Finn Chemical Company, doing business as Finn Extract Co., Portland, Oreg. Flavoring extracts for foods. 245,015; July 31. Class 46.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 244,855; July 31; Serial No. 264,575; published May 22, 1928. Class 42.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 244,982; July 31; Serial No. 263,143; published May 22, 1928. Class 42.

Frank Brothers, to Samuel Frank, doing business as Frank Brothers, New York, N. Y., successor. Boots and shoes of leather, cloth, and satin. 71,578; renewed Dec. 1, 1928.

Frank & Cohen Silk Corp., New York, N. Y. Fabrics in the piece of silk, artificial silk, etc. 244,853; July 31; Serial No. 264,677; published May 22, 1928. Class 42.

Freezer Co., The, South Pasadena, Calif. Candy. 244,878; July 31; Serial No. 256,108; published May 22, 1928. Class 46.

Friedley-Voshardt Co., Chicago, Ill. Electric dishwashers. 244,849; July 31; Serial No. 249,055; published May 22, 1928. Class 21.

Fulford, C. E., Limited, Leeds, England. Ointment. 69,876; renewed July 14, 1928.

Fulford, C. E., Limited, Leeds, England. Perfumed soap. 70,031; renewed July 28, 1928.

Fusion Welding Corporation, Chicago, Ill. Welding rods. 244,838; July 31; Serial No. 258,684; published May 15, 1928. Class 14.

General Cable Corporation. (See Safety Insulated Wire and Cable Corporation, The.)

Gilbert, A. C., Company, The, New Haven, Conn. Electric fans, electric liquid and plastic mixers, etc. 244,834; July 31; Serial No. 259,243; published May 22, 1928. Class 21.

Gilbert, A. C., Company, The, New Haven, Conn. Electric space heaters, fans, etc. 244,835; July 31; Serial No. 259,242; published May 22, 1928. Class 21.

Gillman, Cora M., Youngstown, Ohio. Cold cream, vanishing, hand, and shampoo cream. 244,907; July 31; Serial No. 255,553; published May 15, 1928. Class 6.

Glenerry Woolen Company. (See Goldfine, Allen L.)

Godman, H. C., Company, The, Columbus and Lancaster, to The H. C. Godman Company, Columbus, Ohio. Shoes and slippers. 70,102; renewed July 28, 1928.

Goetz, M. K., Brewing Company, St. Joseph, Mo. Beverages. 244,967; July 31; Serial No. 260,500; published May 22, 1928. Class 48.

Goldfine, Allen L., doing business as Glenerry Woolen Company, Boston, Mass. Woolen cloth. 244,989; July 31; Serial No. 261,956; published May 22, 1928. Class 42.

Gotham Silk Hosiery Co. Inc. (See Lord & Taylor, assignor.)

Grasselli Chemical Company, The, Cleveland, Ohio. Seed-treating compounds. 244,957; July 31; Serial No. 264,429; published May 22, 1928. Class 6.

Great American Tea Co., The, New York, N. Y. Furniture polish. 244,994; July 31; Serial No. 252,380; published May 8, 1928. Class 16.

Grebe, A. H., & Co., Inc., Richmond Hill, N. Y. Radio receiving sets. 244,824; July 31; Serial No. 222,454; published Apr. 6, 1926. Class 21.

Green River Malt Co. of Massachusetts, Boston, Mass. Malt syrup. 244,995; July 31; Serial No. 251,903; published May 15, 1928. Class 46.

Griggs, Cooper & Company, St. Paul, Minn. Table syrup. 244,916; July 31; Serial No. 260,118; published May 15, 1928. Class 46.

Griggs, Cooper & Company, St. Paul, Minn. Peanut butter and bottled fruit preserves and fruit jellies. 244,964; July 31; Serial No. 260,115; published May 15, 1928. Class 46.

Gutierrez, A., New York, N. Y. Cigars. 244,924; July 31; Serial No. 264,164; published May 22, 1928. Class 17.

Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods. 244,857; July 31; Serial No. 264,301; published May 22, 1928. Class 42.

Harris, John H., Lockport, N. Y. Pharmaceutical preparation. 244,908; July 31; Serial No. 256,932; published May 15, 1928. Class 6.

Harvey, C. C., Company, Boston, Mass. Pianos and player pianos. 245,007; July 31. Class 36.

Hatch, Robt. L., assignor to Robert L. Hatch Corporation, New York, N. Y. Nuts. 69,688; renewed June 30, 1928.

Haubold, C. G., Aktiengesellschaft, Chemnitz, Germany. Machines. 244,876; July 31; Serial No. 255,062; published May 22, 1928. Class 23.

Heine & Co., New York, N. Y. Perfumes and natural and synthetic oils. 244,869; July 31; Serial No. 264,103; published May 22, 1928. Class 6.

Heine & Co., New York, N. Y. Natural and synthetic oils. 244,870; July 31; Serial No. 264,102; published May 22, 1928. Class 6.

Heine & Co., New York, N. Y. Natural and synthetic oils. 244,872; July 31; Serial No. 264,104; published May 22, 1928. Class 6.

Hersey Paper Company, Inc., Medford, Mass. Wrapping paper and box board. 244,996; July 31. Class 37.

Hetson Company, Inc., New York, N. Y. Paints, varnishes, prepared shellacs, and paint enamels. 244,836; July 31; Serial No. 259,171; published May 22, 1928. Class 16.

Heyman, Oscar, & Brothers, New York, N. Y. Jewelry. 244,935; July 31; Serial No. 262,848; published May 22, 1928. Class 28.

Hoffbauer, Dr. Richard, Berlin, Germany. Pharmaceutical preparations. 244,809; July 31; Serial No. 246,478; published Sept. 20, 1927. Class 6.

Holman & Franz, Inc., New York, N. Y. Flat crepe silk piece goods. 244,976; July 31; Serial No. 263,825; published May 22, 1928. Class 42.

Honor Society of Phi Kappa Phi, The, Knoxville, Tenn. Fraternity badges, lapel buttons, etc. 244,811; July 31; Serial No. 245,985; published May 22, 1928. Class 28.

Horwitz, Robert, doing business as Howard Radio Co. and Hy-Test Battery Works, New York, N. Y. Batteries. 245,005; July 31. Class 21.

Howard Radio Co. (See Horwitz, Robert.)

Hubbard, Elbert, to The Roycrofters, East Aurora, N. Y., successor. Monthly magazine. 69,910; renewed July 14, 1928.

Hurwitt Co. Inc., The, New York, N. Y. Motor robes, steamer rugs, and camel-hair blankets of textile fabric. 244,981; July 31; Serial No. 263,154; published May 22, 1928. Class 42.

Hy-Test Battery Works. (See Horwitz, Robert.)

Hydro-Centrifugals, Inc., New York, N. Y. Centrifugal machines. 244,951; July 31; Serial No. 246,553; published May 22, 1928. Class 23.

Hydrotator Company, Hazleton, Pa. Pumps and agitating, thickening, classifying, and flotation apparatus. 244,865; July 31; Serial No. 263,873; published May 22, 1928. Class 23.

Imperial Brass Manufacturing Company, The, Chicago, Ill. Brazing and welding flux. 244,900; July 31; Serial No. 252,153; published May 22, 1928. Class 6.

Justice, Charles B., San Diego and El Centro, Calif. Honey and hay. 244,820; July 31; Serial No. 228,318; published May 22, 1928. Class 46.

Keeley's Candies, Inc., Madison, Wis. Box candy and bars. 244,998; July 31. Class 46.

Keron, Frank H., to Central Falls Bottling Company, Central Falls, R. I., successor. Tonic beverage. 70,731; renewed Sept. 29, 1928.

Kerr, Dorothy K. (See Felix Tempest Co., assignor.)

Klizem Products Company, Dallas, Tex. Rat and mice exterminator. 244,867; July 31; Serial No. 263,952; published May 15, 1928. Class 6.

Kingan and Company, Limited, Belfast, Ireland; Indianapolis, Ind; Baltimore, Md.; and Richmond, Va., assignor to Kingan & Co. Inc., Indianapolis, Ind. Bacon. 71,667; renewed Dec. 8, 1928.

Littell, C. S., & Co., Inc., New York, N. Y. Sweet-flavored castor oil. 244,919; July 31; Serial No. 264,313; published May 22, 1928. Class 6.

Littell, C. S., & Co., Inc., New York, N. Y. Laxative cough syrup. 244,920; July 31; Serial No. 264,312; published May 22, 1928. Class 6.

Lodi Fruit Growers Association, Lodi, Calif. Fresh grapes. 245,000; July 31. Class 46.

Lord & Taylor, assignor, by mesne assignments, to Gotham Silk Hosiery Co. Inc., New York, N. Y. Hosiery. 71,201; renewed Nov. 10, 1928.

Loughborough Oil Co. (Inc.), Washington, D. C. Gasoline, lubricants, and fuel oils. 244,826; July 31; Serial No. 214,372; published Mar. 1, 1927. Class 15.

Lugerman, Morris, New York, N. Y. Watches and watch-cases. 244,912; July 31; Serial No. 257,424; published May 15, 1928. Class 27.

Manganese Bronze and Brass Co., Limited, The, London, England. Metallic alloys. 69,043; renewed May 19, 1928.

Manganese Bronze and Brass Co., Limited, The, London, England. Antifriction alloys. 69,044; renewed May 19, 1928.

Manganese Bronze and Brass Co., Limited, The, London, England. Metallic alloys. 69,067; renewed May 19, 1928.

Marcus, Samuel M., Los Angeles, Calif. Motion-picture films. 244,952; July 31; Serial No. 246,917; published May 22, 1928. Class 26.

Martin Baking Company, The, Cleveland, Ohio. Cookies. 244,886; July 31; Serial No. 211,690; published May 8, 1928.

Martin, Frederic, sr., doing business as Columbus Washboard Co., Columbus, Ohio. Washboards. 244,859; July 31; Serial No. 264,244; published May 22, 1928. Class 24.

Martin Manufacturing Company, Newton, Mass. Muslin. 70,891; renewed Oct. 13, 1928.

Martin Manufacturing Company, Newton, Mass. Window curtains and lace and muslin for making curtains. 70,892–3; renewed Oct. 13, 1928.

McClellan and Seward, Hartford, Conn. Oil devices designed to be applied to automobiles. 244,910; July 31; Serial No. 256,960; published May 22, 1928. Class 26.

McClendon Medicine Co., Inc., Roanoke, Ala. Medicine. 244,862; July 31; Serial No. 263,961; published May 22, 1928. Class 6.

McDonald, George W., Colorado Springs, Colo. Inhalers. 244,861; July 31; Serial No. 264,245; published May 22, 1928. Class 44.

Mergott, J. E., Company, Newark, N. J. Paper knives, pad holders, letter openers, paper weights, etc. 244,940; July 31; Serial No. 261,900; publishd Apr. 3, 1928. Class 37.

Merit Manufacturing Co. (See Parker, Elgin R.)

Merry-Whirl Swing Manufacturing Co., The, Chicago, Ill. Whirling swings. 244,914; July 31; Serial No. 260,340; published May 15, 1928. Class 22.

Mestrezat, Walter A., Morgantown, W. Va. Medical preparation for skin diseases. 71,927; renewed Dec. 22, 1928.

Mexican Pecan Candy Company, Dallas, Tex. Candy. 244,913; July 31; Serial No. 257,429; published May 22, 1928. Class 46.

Meyer, Albert C., doing business as Acme Mercantile Corporation, San Diego, Calif. Calculating machines. 244,874; July 31; Serial No. 263,475; published May 22, 1928. Class 26.

Michelin et Cie., Clermont-Ferrand, France. Vehicle wheels and rims therefor. 244,985–6; July 31; Serial Nos. 262,523–4; published May 22, 1928. Class 19.

Middleton, Nina V., doing business as Nina Vivian Rees, Tonawanda, N. Y. Salve for the treatment of blood poison, boils, etc. 244,959; July 31; Serial No. 264,318; published May 22, 1928. Class 6.

Midland Company, The, South Milwaugee, Wis. Rope hitches and other like cordage. 245,012; July 31. Class 13.

Miessner, Benjamin F., South Orange, N. J. Electron-discharge tubes, amplifier tubes, etc. 245,008; July 31. Class 21.

Mining Engineering Company, Limited, Worcester, England. Belt conveyors, shaker conveyors, etc. 244,965; July 31; Serial No. 260,184; published May 22, 1928. Class 23.

Mining Engineering Company, Limited, Worcester, England. Rubber and fabric machinery belting. 244,966; July 31; Serial No. 260,185; published May 22, 1928. Class 35.

Minneapolis Drug Company, Minneapolis, Minn. Cod-liver oil. 244,956; July 31; Serial No. 264,649; published May 22, 1928. Class 6.

Moore, George C., Company, Westerly, R. I. Elastic fabrics, 244,821; July 31; Serial No. 224,878; July 31; Serial No. 224,878; published May 22, 1928. Class 42.

Moreland Bros. Co., Adrian, Mich. Lubricating oils and greases. 244,833; July 31; Serial No. 259,965; published May 22, 1928. Class 15.

Murias, Suarez Eduardo y Compañia, Habana, Cuba. Cigars. 244,925; July 31; Serial No. 263,416; published May 22, 1928. Class 17.

National India Rubber Co., Bristol, R. I., assignor to United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Insulated wire. 70,737; renewed Sept. 29, 1928.

Neenah Paper Company, Neenah, Wis. Paper. 245,003; July 31. Class 37.

Newcomb, Curtis S., doing business as Pacific Electrical Products Co., Tacoma, Wash. Electric water heater. 244,822; July 31; Serial No. 224,670; published May 22, 1928. Class 21.

New England Confectionery Company, Cambridge, Mass. Candy. 244,923; July 31; Serial No. 264,182; published May 22, 1928. Class 46.

New Jersey Asbestos Company, The, Camden, N. J., to The New Jersey Asbestos Company, New York, N. Y. Asbestos packing. 71,237; renewed Nov. 10, 1928.

New Zealand Dairy-Produce Control Board, Wellington, New Zealand. Butter and cheese. 244,843; July 31; Serial No. 254,976; published Feb. 21, 1928. Class 46.

Nicholas, Geo. R., & Co., Melbourne, Victoria, Australia. Pharmacentical preparations. 244,969; July 31; Serial No. 260,651; published May 22, 1928. Class 6.

Nicholson File Company, Providence, R. I. Files. 71,833; renewed Dec. 15, 1928.

Noblesville Milling Company, to Noblesville Milling Co., Noblesville, Ind., successor. Wheat flour. 31,557; renewed May 17, 1928.

Non-Explosive Receptacle Co., The, Baltimore, Md. Emergency gasoline containers. 244,858; July 31; Serial No. 264,252; published May 22, 1928. Class 2.

Non-Parel Paint Co., Akron, Ohio. Paint remover and ready-mixed paints. 244,819; July 31; Serial No. 234,627; published May 22, 1928. Class 16.

Northern Cocoanut Products Corporation, Chicago, Ill. Nut margarine. 244,900; July 31; Serial No. 263,885; published May 15, 1928. Class 46.

Norvell-Shapleigh Hardware Company, now by change of name to Shapleigh Hardware Company, St. Louis, Mo. Hoes. 69,776; renewed July 7, 1928.

O. K. Peanut Butter Co. (See Blood, George H., jr.)

Okeh Phonograph Corporation, New York, N. Y. Phonograph needles. 244,927; July 31; Serial No. 263,226; published May 22, 1928. Class 36.

Old Vet Remedy Company, Wilkes-Barre, Pa. Rheumatism medicine. 244,955; July 31; Serial No. 264,651; published May 22, 1928. Class 6.

Omicron Pi Sigma Fraternity, Indianapolis, Ind. Fraternal jewelry. 244,818; July 31; Serial No. 236,634; published May 22, 1928. Class 28.

Pabst Corporation, Milwaukee, Wis. Malt syrup. 244,891; July 31; Serial No. 260,345; published May 15, 1928. Class 46.

Pacific Electric Products Co. (See Newcomb, Curtis S.)

Paoli, R., & Company, doing business as Red Rock Co., Hancock, Mich. Malt syrup and extract. 244,973; July 31; Serial No. 264,187; published May 22, 1928. Class 46.

Parker, Elgin R., doing business as Merit Manufacturing Co., Los Angeles, Calif. Water heaters using gas as a fuel. 244,840; July 31; Serial No. 257,438; published May 22, 1928. Class 34.

Patek Brothers, Inc., Milwaukee, Wis. Varnish. 244,889; July 31; Serial No. 260,653; published May 15, 1928. Class 16.

Pecora Paint Company, Philadelphia, Pa. Adhesive cements. 244,881; July 31; Serial No. 244,955; published May 15, 1928. Class 5.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Hospital rubber sheeting and sanitary rubber sheeting. 244,888; July 31; Serial No. 260,845; published May 8, 1928. Class 44.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Dolls, doll houses, doll buggies, etc. 244,917; July 31; Serial No. 259,966; published May 15, 1928. Class 22.

Pennino, Oreste, doing business as Pennino Brothers, New York, N. Y. Jewelry. 244,906; July 31; Serial No. 255,465; published May 15, 1928. Class 28.

Phillips Petroleum Company, Bartlesville, Okla. Liquefied natural gas. 244,921; July 31; Serial No. 264,256; published May 22, 1928. Class 6.

Pi Beta Phi Fraternity, West Hartford, Conn. Fraternity badges, lapel buttons, cuff links, etc. 244,812; July 31; Serial No. 245,028; published May 22, 1928. Class 28.

Pickering, Joseph, and Sons, Limited, Sheffield, England. Preparation for whitening all articles of buff or buckskin leather. 70,814; renewed Oct. 6, 1928.

Pierce Petroleum Corporation, Wilmington, Del., and St. Louis, Mo. Lubricating oils and greases. 245,010; July 31. Class 15.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Paint enamels, varnishes, etc. 244,911; July 31; Serial No. 257,251; published May 8, 1928. Class 16.

Playgolf, Inc., Cleveland, Ohio. Golf practice machines, golf bags, tees, etc. 245,013; July 31. Class 22.

Plough Chemical Company, doing business as Fair-Plex Company, Memphis, Tenn. Deodorant. 244,814; July 31; Serial No. 240,876; published Apr. 12, 1927. Class 6.

Pomona Mills, Inc., Greensboro, N. C. Cotton piece goods. 245,001; July 31. Class 42.

Pratt Read Player Action Company, Deep River, Conn. Player pianos and player actions for player pianos and wind musical instruments. 244,830; July 31; Serial No. 260,910; published May 15, 1928. Class 36.

Preferred Baking Co., Boston, Mass. Ice-cream cones. 244,972; July 31; Serial No. 264,197; published May 22, 1928. Class 46.

Premier Grand Piano Corporation, New York, N. Y. Radio receiving sets. 244,827; July 31; Serial No. 210,924; published May 22, 1928. Class 21.

Railton, B. A., Co., Chicago, Ill. Sugars, flour, dried beans, etc. 244,828; July 31; Serial No. 186,928; published Feb. 8, 1927. Class 46.

Red Rock Co. (See Paoli, R., & Company.)

Rees, Nina V. (See Middleton, Nina V.)

Rhodia Chemical Company, New York, N. Y. Aromatic oils, photographic chemicals, etc. 244,949; July 31; Serial No. 242,855; published May 22, 1928. Class 6.

Robinson & Golluber, New York, N. Y. Piece goods of cotton, rayon, and alpaca and combinations of the same. 244,854; July 31; Serial No. 264,696; published May 22, 1928. Class 42.

Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Honey. 244,918; July 31; Serial No. 260,959; published May 15, 1928. Class 46.

Rosenberg, Abraham, doing business as Apt Products Co., New York, N. Y. Bicarbonate of soda, cascara sagrada, etc. 244,963; July 31; Serial No. 259,593; published May 22, 1928. Class 6.

Rosenthal China Corporation, The, New York, N. Y. Porcelain and china ware of all kinds. 244,852; July 31; Serial No. 264,699; published May 22, 1928. Class 30.

Royal Importing Co., New York, N. Y. Cheese. 244,837; July 31; Serial No. 259,017; published Feb. 14, 1928. Class 46.

Roycrofters, The. (See Hubbard, Elbert.)

Ruby, Samuel, San Francisco, Calif. Canned fruits and vegetables. 244,950; July 31; Serial No. 245,454; published May 1, 1928. Class 46.

Rufeisen, Henry, Inc., Newark, N. J. Finger rings. 244,847; July 31; Serial No. 252,914; published May 22, 1928. Class 28.

Safety Glass and Xetal Products, Limited, Stapleford, England. Cotton piece goods. 244,848; July 31; Serial No. 249,926; published May 22, 1928. Class 42.

Safety Insulated Wire and Cable Corporation, The, to General Cable Corporation, New York, N. Y., successor. Insulated wires. 31,329; renewed Feb. 22, 1928.

San Fernando Heights Orange Association, San Fernando, Calif. Oranges, lemons, and grapefruit. 244,866; July 31; Serial No. 263,890; published May 22, 1928. Class 46.

San-Nap-Pak Mfg. Co. Inc., New York, N. Y. Absorbent cotton, absorbent gauze, and sanitary napkins. 244,842; July 31; Serial No. 256,218; published May 22, 1928. Class 44.

Sanatile Company, assignor, by mesne assignments, to The Standard Textile Products Company, New York, N. Y. Decorative fabrics for walls and ceilings. 70,610; renewed Sept. 15, 1928.

Sanders, L. A., jr., Station Bolok Merangir, Sumatra, Dutch East Indies. Paint pigments and paints. 244,903; July 31; Serial No. 253,608; published May 15, 1928. Class 16.

Schieffelin & Co., New York, N. Y. Effervescent salts magnesium citrate, elixir sodium lodide, etc. 244,915; July 31; Serial No. 260,295; published May 15, 1928. Class 6.

Schoenhofen, Peter, Brewing Company, The, assignor to Schoenhofen Company, Chicago, Ill. Malt beverage. 71,166–7; renewed Nov. 3, 1928.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Pads and shields for corns, etc. 244,932; July 31; Serial No. 262,939; published May 22, 1928. Class 44.

Schreiber, A., Brewing Co., assignor by mesne assignments, to Schreiber Products Corporation, Buffalo, N. Y. Beer. 69,271; renewed June 2, 1928.

Schwahn, A. F., & Sons Co., Eau Claire, Wis. Malt syrup, canned vegetables, canned sauerkraut. 245,004; July 31. Class 46.

Schweiz. Kindermehl-Fabrik, Belp, Switzerland. Medicinal preparation. 244,962; July 31; Serial No. 259,139; published May 22, 1928. Class 6.

Seeman Brothers, Inc., New York, N. Y. Candy. 244,844; July 31; Serial No. 254,692; published Nov. 1, 1927. Class 46.

Seeman Brothers, Inc., New York, N. Y. Canned fish. 244,877; July 31; Serial No. 255,318; published May 1, 1928. Class 46.

Service Grocer Company, Inc., Detroit, Mich. Matches. 244,856; July 31; Serial No. 264,387; published May 22, 1928. Class 9.

Shapleigh Hardware Company. (See Norvell-Shapleigh Hardware Company.)

Shields Brothers, Bombay, N. Y. Moccasins. 70,187; renewed Aug. 11, 1928.

Siemens & Halske Aktiengesellschaft, Berlin-Siemensstadt, Germany. Current meters, voltmeters, etc. 244,846; July 31; Serial No. 253,959; published May 22, 1928. Class 26.

Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Current meters, voltmeters, etc. 244,945; July 31; Serial No. 253,962; published May 22, 1928. Class 26.

Sigma Kappa Sorority, Leavenworth, Kans. Fraternity badges, lapel buttons, cuff buttons, etc. 244,810; July 31; Serial No. 246,127; published May 22, 1928. Class 28.

Sigma Nu Fraternity, Indianapolis, Ind. Fraternity badges, shields, lockets, etc. 244,879; July 31; Serial No. 251,105; published May 15, 1928. Class 28.

Silent Automatic Corporation, Detroit, Mich. Liquid-fuel burners. 244,983; July 31; Serial No. 262,775; published May 22, 1928. Class 34.

Silver, Wm., Co. Inc. (See Strasbaugh, Silver & Co.)

Smith-Alsop Paint and Varnish Co., The, Terre Haute, Ind. Enamel and varnish. 244,902; July 31; Serial No. 264,123; published May 15, 1928. Class 16.

Societe des Amortisseurs Reglables pour Automobiles, Nantes, France. Shock absorbers for automobiles. 244,979; July 31; Serial No. 263,355; published May 22, 1928. Class 19.

South Bend Watch Co., South Bend, Ind. Watches and watchcases. 244,999; July 31. Class 27.

Southern Cone Manufacturing Company, Incorporated, Shreveport, La. Chocolate-covered frozen fruits. 244,974–5; July 31; Serial No. 263,977–8; published May 22, 1928. Class 46.

Southern Pecan Co. Inc., New Orleans, La. Pecans. 244,823; July 31; Serial No. 224,160; published May 1, 1928. Class 46.

Southwest Honey Producers Syndicate, Los Angeles, Calif. Honey, orange honey, etc. 244,880; July 31; Serial No. 247,976; published May 15, 1928. Class 46.

Sprochnie & Company, assignor to Sprochnie, Inc., Chicago, Ill. Watches. 71,970; renewed Dec. 22, 1928.

Standard Glass Co., Marion, Ind. Glass bottles. 71,949; renewed Dec. 22, 1928.

Standard Textile Products Company, The. (See Sanatile Company, assignor.)

Stehlsilks Corporation, New York, N. Y. Silk piece goods. 244,980; July 31; Serial No. 263,231; published May 1, 1928. Class 42.

Stewart, John H., doing business as The Stewart Laboratories, Chehalis, Wash. Absorbents, a medicinal preparation. 244,875; July 31; Serial No. 254,431; published May 15, 1928. Class 6.

Strasbaugh, Silver & Co., to Wm. Silver Co. Inc., Aberdeen, Md., successor. Canned vegetables. 69,713; renewed June 30, 1928.

Susquehanna Silk Mills, assignor to Susquehanna Silk Mills, New York, N. Y. Silk piece goods and silk-mixed piece goods. 71,693; renewed Dec. 8, 1928.

Sweetwater Fruit Company, Bonita, Calif. Fresh citrus fruits. 244,946; July 31; Serial No. 234,324; published May 22, 1928. Class 46.

Synthetic Nitrogen Products Corporation, New York, N. Y. Fertilizer. 244,971; July 31; Serial No. 264,209; published May 22, 1928. Class 10.

Table Art Mat Company, Brooklyn, N. Y. Coated fabric similar to imitation leather. 244,978; July 31; Serial No. 263,521; published May 22, 1928. Class 20.

Texas Bread Company, Houston, Tex. Bread. 244,882; July 31; Serial No. 244,800; published May 15, 1928. Class 46.

Texas Pacific Coal and Oil Company, Fort Worth, Tex. Motor-lubricating oils. 244,829; July 31; Serial No. 260,967; published May 22, 1928. Class 15.

Texas Pacific Coal and Oil Company, Fort Worth, Tex. Lubricating oil. 244,937; July 31; Serial No. 262,381; published May 22, 1928. Class 15.

Thomlinson, John, Limited, Partick, Glasgow, Scotland. Paper merchandise bags and envelopes. 244,831; July 31; Serial No. 260,474; published May 22, 1928. Class 2.

Tokalon Chemical Corporation, New York, N. Y. Perfumes. 244,883–4; July 31; Serial Nos. 235,980–1; published May 15, 1928. Class 6.

Transcontinental Oil Company, Tulsa, Okla. Gasoline. 244,941; July 31; Serial No. 261,594; published May 22, 1928. Class 15.

Treet Safety Razor Corporation, Newark, N. J. Safety razors and safety-razor blades. 244,922; July 31; Serial No. 264,662; published May 22, 1928. Class 23.

Ultra Modern Products Company. (See Yeisley, Carl J.)

Union Carbide Company, Chicago, Ill., to Union Carbide Company, New York, N. Y. Calcium carbid. 71,518; renewed Dec. 1, 1928.

United States Corporation Company, New York, N. Y. Books. 69,715; renewed June 30, 1928.

United States Rubber Company. (See National India Rubber Co., assignor.)

Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Wire cables, and crane and hoist cables, etc. 244,990; July 31; Serial No. 261,292; published May 22, 1928. Class 7.

Vignes-Bombet Grocer Co. Inc., Baton Rouge, La. Wheat flour. 244,997; July 31. Class 46.

Virginia Dare Extract Company, Inc., Brooklyn, N. Y. Flavoring extracts. 244,988; July 31; Serial No. 262,007; published May 22, 1928. Class 46.

Volpe, Miguel F., doing business as G. Bortoni y Cia. Suer., Laredo, Tex. Tonic. 244,895; July 31; Serial No. 263,997; published May 15, 1928. Class 6.

Voss, Bruno, Brooklyn, N. Y. Oxygen medicine. 244,954; July 31; Serial No. 264,784; published May 22, 1928. Class 6.

Vulcan Match Co., Inc., New York, N. Y. Matches. 244,987; July 31; Serial No. 262,136; published Apr. 17, 1928. Class 9.

Walker, Arthur B., Grosse Point Park, Mich. Electrical light and vibration massage device. 244,993; July 31; Serial No. 258,053; published May 15, 1928. Class 44.

Warner Quinlan Company, New York, N. Y. Gasoline. 244,931; July 31; Serial No. 262,945; published May 22, 1928. Class 15.

Warrensburg Canning Co., Warrensburg, Ill. Canned corn. 244,808; July 31; Serial No. 246,865; published May 31, 1927. Class 46.

Waterman, L. E., Company, New York, N. Y. Safety clips for fountain-pens and pencils. 71,855; renewed Dec. 15, 1928.

Watson, C. M., Wheeling, W. Va. Coffee compound. 244,816; July 31; Serial No. 237,523; published Jan. 18, 1927. Class 46.

Wefferling, Berry, Wallraff Co., Inc., Newark, N. J. Finger rings, gold and platinum badges, etc. 244,943; July 31. Serial No. 261,087; published May 22, 1928. Class 28.

Wertheimer, E., & Cie., Paris, France, assignor, by mesne assignments, to Bourjois, Inc., New York, N. Y. Soaps. 70,646–8; renewed Sept. 22, 1928.

Westchester Macaroni Co., Inc., Mount Vernon, N. Y. Alimentary pastes. 244,991; July 31; Serial No. 257,718; published May 15, 1928. Class 46.

Weyermann, Johann B., Potsdam, Germany. Malt preparations. 66,433; renewed Nov. 26, 1927.

Wickwire Spencer Steel Company. (See Bowers, Edward C., and Charles L. Feldman, receivers.)

Wickwire Spencer Steel Company, New York, N. Y. Woven-wire cloth, window screen cloth, hooks, etc. 244,825; July 31; Serial No. 221,343; published May 22, 1928. Class 18.

Wieden, Julius, doing business as J. Wieden, Los Angeles, Calif. Electrotherapeutic pads and belts. 244,850; July 31; Serial No. 248,337; published July 19, 1927. Class 44.

Willcott, Howard J., Leavenworth, Kans. Mouth wash and throat gargle. 244,885; July 31; Serial No. 226,087; published May 15, 1928. Class 6.

Willis, Albert P., Detroit, Mich. Phone cabinets, folding beds, etc. 244,953; July 31; Serial No. 250,587; published May 22, 1928. Class 32.

Woertz, Henry, Waukegan, Ill. Ginger ale and beverages. 244,948; July 31; Serial No. 242,645; published May 22, 1928. Class 45.

Woodworth, C. B., Sons Co., The, Rochester, assignor to Woodworth, Inc., New York and Rochester, N. Y. Perfumes, toilet powders, etc. 70,596; renewed Sept. 15, 1928.

Woodworth, C. B., Sons Co., The, Rochester, assignor to Woodworth, Inc., New York and Rochester, N. Y. Toilet cream. 70,935; renewed Oct. 20, 1928.

Wurlitzer, Rudolph, Company, The, Cincinnati, Ohio. Player pianos. 245,011; July 31. Class 36.

Yeisley, Carl J., doing business as Ultra Modern Products Company (a common-law company), Port Clinton, Ohio. Vaginal antiseptic lubricant and prophylactic. 244,970; July 31; Serial No. 260,926; published May 22, 1928. Class 6.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

A & W Chemical Co. (See Andrews, Robert S.)

Andrews, Robert S., doing business as A & W Chemical Co., Chicago, Ill. Jus-Rite. For Hair Pomade. 34,361; July 31.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Brand Chewing Gum, Wintergreen (1). For Chewing Gum. 34,362; July 31.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Brand Chewing Gum, Wintergreen (2). For Chewing Gum. 34,363; July 31.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Brand Chewing Gum, Licorice (3). For Chewing Gum. 34,364; July 31.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Brand Chewing Gum, Licorice (4). For Chewing Gum. 34,365; July 31.

Beech-Nut Packing Company, New York, N. Y. Beech-Nut Brand Chewing Gum, Fruit Flavored (6). For Chewing Gum. 34,366; July 31.

Bradas & Gheens. (See Gheens, C. E.)

Continental Nut Company, Seattle, Wash. From Buddy Squirrel's Nut Shops. For all Varieties, Forms, and Grades of Edible and Nonedible Nuts, Nut Butters, Nut Pastes, Nut Emulsions, Nut Confections, Nut Drinks and Specialties, Nut Sundae Nuts, Nut Health Foods, and Other By-Products. 34,367; July 31.

Edmondson, D. C., Little River, Fla. Edmonson's Original Curatone Ointment. For Ointment. 34,368; July 31.

Flangler, E. Roy, doing business as Ritzie Products Company, Tampa, Fla. Odeurs—Go. For Deodorant. 34,369; July 31.

Gardine, Manuel S., St. Louis, Mo. Circular Handles. For Circular Handles for Umbrellas, Flagstaffs, Canes, Toys, Etc. 34,370; July 31.

Gheens, C. E., doing business as Bradas & Gheens, Louisville, Ky. Country Candy Ham. For Candy. 34,371; July 31.

Hammond, Dr. W. D., doing business as Silvitol Laboratory, Minneapolis, Minn. Silvitol Volatile Oil: For Preparation for the Relief of Muscular Pains, Insect Bites, Etc. 34,372; July 31.

Home Drug Company, Minneapolis, Minn. Prescription No. 77. For Medicinal Tablet. 34,373; July 31.

Hovey, C. F., Company, Boston, Mass. Hovena Cleansing. For a Cleaning Preparation for Clothing, Draperies, Upholsteries, Etc. 34,374; July 31.

Jenny Lind Candy Shops. (See Puritan Chocolate Company, The.)

Lain, Chin, doing business as Kwong Quong Chiy Co., Canton, China, and as Quong Chong Co., San Francisco, Calif. Old Kwong. For Tonic. 34,375; July 31.

Kwong Quong Chiy Co. (See Lain, Chin.)

Lester, Samuel R., Sheds, N. Y. Silver-Flash. For a Dirt and Grease Remover or a General Cleaner. 34,376; July 31.

Miller Motor Specialties, Inc., Dallas, Tex. Airtite Tube Patch. For Tire Patches. 34,377; July 31.

Mountain States Honey Producers Association, Boise, Idaho. Sippel's Kreme Whipt Honey. For Honey. 34,378; July 31.

National Cellulose Corporation, New York, N. Y. Facel Cleansing Tissues. For Cleansing Tissues. 34,379; July 31.

National Cellulose Corporation, New York, N. Y. Saneen. For Pads for Sanitary Napkins. 34,380; July 31.

Pasarick, Peter, Chicago, Ill. Wiola Breath Gum. For Chewing Gum. 34,381; July 31.

Puritan Chocolate Company, The, doing business as Jenny Lind Candy Shops, Cincinnati, Ohio. St. Patrick. For Candy. 34,382; July 31.

Purity Cake Company, Chicago, Ill. Purity Cake. For Cake. 34,383; July 31.

Quong Chong Co. (See Lain, Chin.)

Ritzie Products Company. (See Flagler, Roy.)

Riverside & Dan River Cotton Mills, Inc., Danville, Va. Faith. For Pillowcases and Sheets. 34,384; July 31.

Roberts Products Company, Springfield, Ohio. Hoz-Ald. For Powdered Alum. 34,385; July 31.

Rothenberg Drug Co., The, Cleveland, Ohio. Improved 0 6 6. System Tonic. For Medicinal Preparation. 34,386; July 31.

Sadur, Hyman, Chicago, Ill. Prosperity. For Malt Syrup. 34,387; July 31.

Silvitol Laboratory. (See Hammond, Dr. W. D.)

Sterling Pin Co., The, Derby, Conn. La Belle. For Hairpins. 34,388; July 31.

Trade Lithograph & Printing Company, Inc., doing business as Trade Litho Co., Inc., New York, N. Y. Merit Mello-Fit. For Hats. 34,389; July 31.

Williams, Amos D., Middletown, Ohio. Sta-Strate. For Article of Men's Furnishing Goods. 34,390; July 31.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Arden, Elizabeth, Inc., New York, N. Y. Elizabeth Arden is Personally Interested in You. For Venetian Toilet Preparations. 11,123; July 31.

B. V. D. Company, Inc., The, New York, N. Y. In Loose-Fitting 'B. V. D.' Union Suits. For Athletic Underwear. 11,124; July 31.

B. V. D. Company, Inc., The, New York, N. Y. Do a Hand-Spring. For Athletic Underwear. 11,125; July 31.

Czecho Peasant Art Co., Inc., New York, N. Y. Peasant Art Industry Made in Czechoslovakia. For Examples of Peasant Art. 11,126; July 31.

Delray Hat, Inc., New York, N. Y. Swaggerbonds. For Hats. 11,127; July 31.

Flagler, Roy E., doing business as Ritzie Products Company, Tampa, Fla. Odeurs—Go. For Deodorant. 11,128; July 31.

Hartmann Trunk Company, Racine, Wis. When You Travel Light Travel Right. For Wardrobe Hand Luggage. 11,129; July 31.

Henry W., Inc., Chicago, Ill. Frozen Peanut Bar. For Ice-Cream Bar. 11,130; July 31.

Levy, Moe, & Son, New York, N. Y. 4 Million Dollar Clothing Plan. For Men's and Boys' Clothing. 11,131; July 31.

Postum Company, Incorporated, New York, N. Y. Eat it in Delicious Muffins. For Post's Bran Flakes. 11,132; July 31.

O'Connor, Georgia S., Minneapolis, Minn. The Cavern. For Lunches. 11,133; July 31.

Ritzie Products Company. (See Flagler, Roy E.)

Squibb, E. R., & Sons, doing business as Squibb's, New York, N. Y. How Easy it is to Shave When You Control Hydrolysis. For Shaving Cream. 11,134; July 31.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Acme Steel Company, Chicago, Ill. Bands, stays, open seals, and seals. 265,765; July 31. Class 13.
Alabama Brick & Tile Co., Decatur, Ala. Building brick. 266,905; July 31. Class 12.
American Eagle Aircraft Corporation, Kansas City, Mo. Airplanes. 267,824; July 31. Class 19.
American Laundry Machinery Company, The, Norwood Station, Cincinnati, Ohio. Laundry and dry-cleaning machinery and appliances. 265,182; July 31. Class 24.
Ames Shovel & Tool Company, Boston, Mass. Shovels, spades, and scoops. 266,234; July 31. Class 23.
Amplex Manufacturing Company, assignor to De Soto Motor Corporation, Detroit, Mich. Automobiles and their structural parts. 264,346; July 31. Class 19.
Andrews Crane Corporation, doing business as Vibrating Roller Co., New York, N. Y. Vibrating massage instruments. 267,108; July 31. Class 44.
Ashby, William R. C., Woldingham, England. Toilet cream. 267,885; July 31. Class 6.
B-I Trade Builders, Chicago, Ill. Toy wagons. 256,708; July 31. Class 22.
Babbitt, B. T., Inc., New York, N. Y. Cleansing powder for artificial teeth. 266,701; July 31. Class 4.
Barton, Clara, Nurses' Apparel. (See Kleinberg, William.)
Bashaw Arey Co., San Francisco, Calif. Walnuts, almonds, nuts, peanuts, etc. 251,110; July 31. Class 46.
Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 267,481; July 31. Class 39.
Boeing Airplane Company, Seattle, Wash. Airplanes and structural parts. 242,945; July 31. Class 19.
Bowler, Richard W., Bellingham, Wash. Shingle stain, automobile polish, etc. 264,845; July 31. Class 16.
Brauer, Carl Fr., G. m. b. H., Stettin, Germany. Spools for typewriters. 264,136; July 31. Class 23.
Brooks, E. J., and Company, New York, N. Y. Base-metal truck-car and shipping-case seals, etc. 266,644; July 31. Class 25.
Bulwark Watch Company. (See Epstein, Hayman.)
Burgess, C. F., Laboratories, Inc., Madison, Wis. Stereotype mats. 267,404; July 31. Class 37.
Burrows, George R., Inc., New York, N. Y. Tarpaulins. 265,423; July 31. Class 50.
C and H Products Corporation, New York, N. Y. Metallic paint. 265,318; July 31. Class 16.
Cairns, Patrick, doing business as Wyoming Malt and Hops Supply Co., Philadelphia, Pa. Barley-malt syrup. 268,209; July 31. Class 46.
Caledonia Springs Corporation Limited, Montreal, Canada. Ginger ale. 255,895; July 31. Class 45.
Canode Ink Company, Inc., Chicago, Ill. Stencils and stencil paper. 268,077; July 31. Class 37.
Capital Paper Company, Indianapolis, Ind. Toilet paper. 266,714; July 31. Class 37.
Carrier Engineering Corporation, Newark, N. J. Refrigerants or liquid refrigerating mediums. 267,296; July 31. Class 6.
Carson Pirie Scott & Co., Chicago, Ill. Golf balls. 268,021; July 31. Class 22.
Carson Pirie Scott & Co., Chicago, Ill. Men's collars. 267,694; July 31. Class 39.
Central Market Co. (See Penobscot Beef & Provision Co.)
Central West Products Company, Grand Rapids, Mich. Malt extract. 268,029; July 31. Class 46.
Chemical Surgery Co., Oakland, Calif. Therapeutic bath compounds. 258,796; July 31. Class 6.
Cheney Brothers, South Manchester, Conn. Textile and pile fabrics in the piece. 268,350; July 31. Class 42.
Cochran Company, The. (See Ford, Virginia L.)
Cooper & Forman. (See Forman, Arthur W.)
Cornstalk Products Company, Inc., New York, N. Y. Bleached and unbleached chemical pulp. 265,524; July 31. Class 1.
Crotty, Robert E., Newark, N. J. Walnut borders, strips, and flooring of wood. 64,716; July 31. Class 12.
Davis, Berry J., doing business as World Star Paint Co., Kansas City, Mo. House paint, barn paint, interior enamel, etc. 264,568; July 31. Class 16.
Decks Manufacturing Company, Inc., Camden, N. J. Toy guns, felt-nose bullets and other projectiles therefor, and targets used therewith. 268,215; July 31. Class 22.
Deming & Gould Co., Chicago, Ill., and South Bellingham, Wash. Canned salmon. 267,636; July 31. Class 46.
Deming, William L., Salem, Ohio. Mixing faucets, valves, nozzles, and connections. 268,146; July 31. Class 13.
Des Moines Wood Products Company, Des Moines, Iowa. Golf-putting practice device. 264,872; July 31. Class 22.
De Soto Motor Corporation. (See Amplex Manufacturing Company, assignor.)
Di Cio, John, doing business as Ros Rol Co., Norristown, Pa. Cleaner. 252,257; July 31. Class 4.
Doughnut Machine Corporation, New York, N. Y. Self-rising prepared flour. 250,017; July 31. Class 46.
Dunklin, William, doing business as The Klindun Company, New York, N. Y. Linotype-matrix cleaner. 266,719; July 31. Class 4.
Dunlop Milling Co., The, Clarksville, Tenn. Plain and self-rising flour. 267,488; July 31. Class 46.
Ehrsam Frederick, doing business as The Victor Screen Ventilator Co., Reading, Pa. Deflector and adjustable lower-window ventilators and parts thereof. 265,833; July 31. Class 34.
El-Food Corporation, Dallas, Tex. Mayonnaise, salad dressing, etc. 265,369; July 31. Class 46.
Emery & Kavanagh Co., Los Angeles, Calif. Fresh vegetables and melons. 260,263; July 31. Class 46.
Epstein, Hayman, doing business as Bulwark Watch Company, New York, N. Y. Watches, watchcases, etc. 267,542; July 31. Class 27.
Federal Distributors, Inc., Portland, Oreg. Powdered soap, mechanic's soap, metal polish, etc. 264,511; July 31. Class 4.
Fenn Manufacturing Company, The, Charlotte, Mich. Coaster sleds. 267,648; July 31. Class 22.
Fesler, Geo. C. V., Company, St. Louis, Mo. Deodorant. 268,152; July 31. Class 6.
Flintkote Company, The, Boston, Mass. Asphaltic composition roofing shingles. 267,565–6; July 31. Class 12.
Flintkote Company, The, Boston, Mass. Asphaltic composition roofing shingles. 267,568; July 31. Class 12.
Flintkote Company, The, Boston, Mass. Asphaltic composition roofing shingles. 267,571; July 31. Class 12.
Ford, Virginia L., doing business as The Cochran Company, Hays, Kans. Poultry tonic. 268,033; July 31. Class 6.
Forman, Arthur W., doing business as Cooper & Forman, New York, N. Y. Platinum rings, brooches, bar pins, etc. 267,489; July 31. Class 28.
Fulton Bag & Cotton Mills, Atlanta, Ga. Tents, tarpaulins, and waterproofed fabrics. 267,763; July 31. Class 50.
General Research Laboratories, Inc., Sebring, Fla. Therapeutic, nontonic, nonirritant, nonpoisonous liquid. 267,250; July 31. Class 6.
Goodby-Sticks Corporation. (See Goodwin, Benjamin F.)
Goodwin, Benjamin F., doing business as Goodby-Sticks Corporation, New York, N. Y. Wafer rolls filled with peanut butter. 266,806; July 31. Class 46.
Gore, Frank, Los Angeles, Calif. Fresh vegetables. 247,017; July 31. Class 46.
Gorse, Frank W., Co., Needham, Mass. Knitted surgical elastic stockings, surgical belts, etc. 265,380; July 31. Class 44.
Grande Maison De Blanc, Inc., New York, N. Y. Cotton sheets and pillowcases. 268,092; July 31. Class 42.
Great Western Sugar Company, The, Denver, Colo. Sugar. 267,415; July 31. Class 46.
Gulf & West Indies Co., Inc., The, New York, N. Y. Chamois. 267,045; July 31. Class 1.
Hammond, C., & Son Incorporated, Elkins Park, Pa. Hammers. 265,539; July 31. Class 23.
Hart-So Mfg. Co. (See Sobel, Helen.)
Heit-Miller-Lau Company, Fort Wayne, Ind. Candy. 259,551; July 31. Class 46.
Heller Brothers Importing Co., Inc., doing business as Vita Fish Preserving Works, New York, N. Y. Pickled, bismark, dried, and smoked herring, smoked eels, etc. 263,823; July 31. Class 46.
Henckels, J. A., Solingen, Germany. Nail and cuticle scissors, corn razors, nail nippers, etc. 266,932; July 31. Class 44.
Hershey Chocolate Corporation, Hershey, Pa. Topping for ice cream, cakes, pastry, etc. 267,490; July 31. Class 46.
Hervé, Hervé & Hervé, Paris, France. Painters' sizing compositions. 266,662; July 31. Class 16.
Hill Manufacturing Company, Inc., Belmond, Iowa. Automobile awnings. 268,037; July 31. Class 19.
Hilsenbeck, L., Inc., New York, N. Y. Prophylactic rubber articles. 268,157; July 31. Class 44.
Holden-Leonard Company, New York, N. Y. Textile fabrics. 268,226; July 31. Class 42.
Holtz, Fred A., Elkhart, Ind. Chart for illustrating household expenditures. 264,686; July 31. Class 38.
Hoyle, Joshua, & Sons, Ltd. Inc., New York, N. Y. Cotton piece goods. 268,444; July 31. Class 42.
Industrial Executive, Inc., The, New York, N. Y. Periodical. 267,257; July 31. Class 38.
International Milling Company, doing business as Western Flour Mills, Minneapolis, Minn., and Davenport, Iowa. Wheat flour. 268,041; July 31. Class 46.
Irving Chemical Company. (See Rodgers, E. I.)
Jacobsen Publishing Company, The, Chicago, Ill. Magazines and magazine sections. 266,377; July 31. Class 38.
Jacobsen Publishing Company, The, Chicago, Ill. Magazine supplement. 266,995; July 31. Class 38.
James Manufacturing Company, Fort Atkinson, Wis. Metal gravity roof ventilators, brooder stoves, etc. 267,052; July 31. Class 34.
James Mannfacturing Company, Fort Atkinson, Wis. Feed, litter, milk cans, and swill carriers and carrier tracking, etc. 267,056; July 31. Class 23.

Jenkins, Harold C., doing business as Jenkins Pharmacal Co., Los Angeles, Calif. Emmenagogue. 266,086; July 31. Class 6.
Kallison, Morris B., doing business as Mek Laboratories, Chicago, Ill. Preparation for the treatment for coughs and colds. 267,966; July 31. Class 6.
Karlinsky, Abraham M., doing business as The Karlo Products Company, Cleveland, Ohio. Candy-mint laxatives. 261,063; July 31. Class 6.
Karlo Products Company, The. (See Karlinsky, Abraham M.)
Katz, George J., doing business as Kay Laboratories, Chicago, Ill. Foot powder and a remedy for the treatment of corns, bunions, etc. 267,894; July 31. Class 6.
Kay Laboratories. (See Katz, George J.)
Kleinberg, William, doing business as Clara Barton Nurses' Apparel, Rochester, N. Y. Paper gowns. 266,825; July 31. Class 39.
Kleinschmidt, Bernard, New York, N. Y. Beverage. 267,587; July 31. Class 45.
Klindun Company, The. (See Dunklin, William.)
Kramer & Barcus, Leesburg, Fla. Fresh watermelons. 267,590; July 31. Class 46.
Kroydon Company, The, Hilton, N. J. Golf clubs, golf balls, golf bags, and golf tees. 266,205; July 31. Class 22.
Lactropon Lab. Inc., The, Hagerstown, Md. Infant's food. 266,997; July 31. Class 46.
Lambert, Berta, White Creek, Wis. Medallions. 265,388; July 31. Class 40.
Leedon, Samuel D., & Co. Inc., New York, N. Y. Ladies' and misses' hats. 266,546; July 31. Class 39.
Laucks, I. F., Inc., Seattle, Wash. Glue. 233,615; July 31. Class 5.
Lefkowitz, L. J. & M., Inc., New York, N. Y. Hand bags. 268,103; July 31. Class 3.
Liebovitz, S., & Sons, Inc., New York, N. Y. Dress and negligee shirts. 267,496–7; July 31. Class 39.
Lilly, Eli, and Company, Indianapolis, Ind. Rectal analgesia accessory sets. 268,044; July 31. Class 44.
Lobel, Emanuel, New York, N. Y. Girls' coats. 259,859; July 31. Class 39.
Maas, Albert G., Indianapolis, Ind. Dry-cleaning preparation. 265,913; July 31. Class 4.
Macy, R. H., & Co., Inc., New York, N. Y. Golf clubs. 268,506; July 31. Class 22.
Mek Laboratories. (See Kallison, Morris B.)
Melms Manufacturing Co., Inc., The, Detroit, Mich. Finger rings. 267,436; July 31. Class 28.
Missouri Portland Cement Company, St. Louis, Mo. Building cement. 266,388; July 31. Class 12.
Mitchell, Thomas J., doing business as National Pad and Paper Company, Utica, N. Y. Writing tablets, composition books, etc. 263,172; July 31. Class 37.
Montague Rod and Reel Company, Montague City, Mass. Fishing rods. 260,833; July 31. Class 22.
Moxie Company, The, Boston, Mass. Ice cream. 267,380; July 31. Class 46.
Naef & Cie., Ste Ame M., Geneva, Switzerland. Artificial and synthetical perfumes, essential oils. 267,215–16; July 31. Class 6.
National Pad and Paper Company. (See Mitchell, Thomas J.)
Natural Eyesight Institute Inc., Los Angeles, Calif. Instruction courses published in a series. 264,898; July 31. Class 38.
Neuss Hesslein & Co. Inc., New York, N. Y. Cotton piece goods. 266,039; July 31. Class 42.
New Jersey Machine Co poration, Hoboken, N. J. Gumming machines, roll-gumming machines, box-stripping machines, etc. 266,945; July 31. Class 23.
Nichiro Gyogyo Kabushiki Kaisha, Tokyo, Japan. Canned beef, pork, and chicken. 259,209; July 31. Class 46.
Old Home Creameries, Incorporated, Minneapolis, Minn. Creamed cottage cheese. 268,242; July 31. Class 46.
Oneida Community Limited, Oneida, N. Y. Silver-plated flatware, hollow ware, and cutlery. 267,008; July 31. Class 28.
Ostermeyer, Alvin C., doing business as Ostermeyer Paper Company, Indianapolis, Ind. Paper products. 267,900; July 31. Class 37.
Pacific Hair Goods Co., Inc., San Francisco, Calif. Hair-waving machines, protectors, and permanent-waving pads for use therewith. 260,235; July 31. Class 44.
Penner & Berkowitz, New York, N. Y. Suits and overcoats. 265,804; July 31. Class 39.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Pencil tablets, composition books, etc. 266,949; July 31. Class 37.
Penobscot Beef & Provision Co., also doing business as Central Market Co., Inc., Bangor, Me. Eggs. 266,043; July 31. Class 46.
Permanent Concrete Products, Inc., Greenville, Ohio. Preformed concrete structural units for road construction. 251,789; July 31. Class 12.
Petri Cigar Co. Inc., San Francisco, Calif. Cigars. 264,531; July 31. Class 17.
Pierre. (See Roos, Pierre.)
Poultry Producers of Central California, San Francisco, Calif. Poultry and stock feed. 261,384; July 31. Class 46.
Publix Theatres Corporation, New York, N. Y. Coupon books and coupons. 248,928; July 31. Class 38.
R. F. Corp., The, Boston, Mass. Clinical thermometers 266,882; July 31. Class 44.
Rattan Manufacturing Co., The, New Haven, Conn. Conduit fittings, outlet boxes, and covers. 267,011; July 31. Class 21.
Red Fox Orchards, Orange, Calif. Fresh citrus fruits. 253,607; July 31. Class 46.
Reinshagen, Leroy G., doing business as Roy's Distributing Company, Cincinnati, Ohio. Malt syrup. 267,604; July 31. Class 46.
Remington Arms Company, Inc., Bridgeport, Conn.; Ilion, N. Y.; and New York, N. Y. Vending machines, 253,162; July 31. Class 23.
Rochester Garment Shop, St. Paul, Minn. Women's clothing. 267,511; July 31. Class 39.
Rochester, Mrs. W. H., Enid, Okla. Handmade handkerchiefs. 265,014; July 31. Class 42.
Rodgers, E. I., doing business as Irving Chemical Company, San Antonio, Tex. Dental preparation. 257,255; July 31. Class 6.
Roos, Pierre, doing business as Pierre, New York, N. Y., and Paris, France. Astringents, astringent cerates, bleach creams, etc. 265,131; July 31. Class 6.
Ros Rol Co. (See Di Cio, John.)
Roy's Distributing Company. (See Reinshagen, Leroy G.)
Rudy-Patrick Seed Company, Kansas City, Mo. Poultry feeds and stock feeds. 267,146; July 31. Class 46.
Samoline Corporation, Chicago, Ill. Paint-cleaning compound. 234,231; July 31. Class 4.
Scholl Mfg. Co. Inc., The, Chicago, Ill. Arch supports. 264,535; July 31. Class 44.
Sibson & Stern, Inc., Philadelphia, Pa. Dishcloths, bar cloths, floor cloths, etc. 262,490; July 31. Class 42.
Silk, Louis A., New York, N. Y. Handkerchiefs. 268,467; July 31. Class 42.
Sobel, Helen, doing business as Hart-So Mfg. Co., Oklahoma City, Okla. Face lotion. 267,869; July 31. Class 6.
Standard Drug Company, Los Angeles, Calif. Automobile and furniture polish. 266,107; July 31. Class 16.
Strauss, J. B., & Co., New York, N. Y. Suits, coats, vests, etc. 262,634; July 31. Class 39.
Sunrich Canneries, Beaver Dam, Wis. Canned vegetables. 265,803; July 31. Class 46.
Supreme Beverage Co., Chicago, Ill. Maltless carbonated beverages. 266,837; July 31. Class 45.
Surface Combustion Company, Inc., The, Toledo, Ohio. Heating apparatus for use in the industrial arts. 266,767; July 31. Class 34.
Swift and Company, Chicago, Ill. Gelatin. 268,179–87; July 31. Class 46.
Swift and Company, Chicago, Ill. Gelatin. 268,252–4; July 31. Class 46.
Thermatrol Manufacturing Co., Springfield, Mass. Thermostatically-controlled heat regulators. 263,793; July 31. Class 26.
Three Sisters, Philadelphia, Pa. Preparation for bleaching and removing stains. 266,111; July 31. Class 6.
Tiffany & Company, New York, N. Y. Watches and clocks. 268,005; July 31. Class 27.
Townsend, E. M., & Co., New York, N. Y. Hosiery and underwear. 265,936; July 31. Class 39.
Trengove, Chas. T., also doing business as Trengove's Poultry Farm, Portland, Oreg. Antiseptic medicinal preparation. 266,408; July 31. Class 6.
Ughetta, Oduvald L. D., Somerville, N. J. Eggs. 263,186; July 31. Class 46.
Vibrating Roller Co. (See Andrews Crane Corporation.)
Victor Screen Ventilator Co., The. (See Ehrsam, Frederick.)
Vita Fish Preserving Works. (See Heller Brothers Importing Co.)
Vitamins Limited, London, England. Flour meal and foodstuffs made therefrom. 257,517; July 31. Class 46.
Wagner, Günther, Hanover, Germany. Typewriting ribbons, carbon paper, and inking pads. 268,199; July 31. Class 11.
West Virginia Macaroni Co., Clarksburg, W. Va. Macaroni and spaghetti. 265,350; July 31. Class 46.
Western Flour Mills. (See International Milling Company.)
Whites Fruit Agency, Incorporated, Seattle, Wash. Fresh deciduous fruits. 258,545–6; July 31. Class 46.
Wilkins, M. O., Corporation, New York, N. Y. Household cleanser. 256,151; July 31. Class 4.
Wimbar, Inc., New York, N. Y. Golf irons and golf clubs. 263,249; July 31. Class 22.
World Star Paint Co. (See Davis, Barry J.)
Wyoming Malt and Hops Supply Co. (See Cairns, Patrick.)
Yamate, Sasato, doing business as Yamate Bros., San Francisco, Calif. Canned crab meat. 266,291; July 31. Class 46.
Yawman and Erbe Mfg. Co., Rochester, N. Y. Ledger card trays of sheet metal. 268,198; July 31. Class 32.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 2.

Bags and envelopes. Paper merchandise. John Thomlinson, Limited. 244,831; July 31; Serial No. 260,474; published May 22, 1928.
Barrels and kegs, Wooden. Allied Barrel Company. 244,977; July 31; Serial No. 263,808; published May 22, 1928.
Bottles and jars. G. P. Altenberg. 70,444; renewed Sept. 1, 1928.
Containers, Emergency gasoline. Non-Explosive Receptacle Co. 244,858; July 31; Serial No. 264,252; published May 22, 1928.

CLASS 4.

Preparation for cleaning, brightening, and polishing silver, etc. Colgate & Company. 245,002; July 31.
Preparation for whitening articles. Joseph Pickering and Sons, Limited. 70,814; renewed Oct. 6, 1928.
Soap, Perfumed. C. E. Fulford, Limited. 70,031; renewed July 28, 1928.
Soaps. E. Wertheimer & Cie. 70,646–8; renewed Sept. 22, 1928.

CLASS 5.

Cements, Adhesive. Pecora Paint Company. 244,881; July 31; Serial No. 244,955; published May 15, 1928.

CLASS 6.

Absorbents, a medicinal preparation. J. H. Stewart. 244,875; July 31; Serial No. 254,431; published May 15, 1928.
Aldehydes, alcohol, and synthetic oils. Felton Chemical Company. 244,871; July 31; Serial No. 264,092; published May 22, 1928.
Antiseptic lubricant and prophylactic, Vaginal. C. J. Yeisley. 244,970; July 31; Serial No. 260,926; published May 22, 1928.
Bicarbonate of soda, cascara sagrada, etc. A. Rosenberg. 244,963; July 31; Serial No. 259,593; published May 22, 1928.
Calcium carbid. Union Carbide Company. 71,518; renewed Dec. 1, 1928.
Compounds. G. F. Braun. 244,868; July 17; Serial No. 264,071; published May 22, 1928.
Compounds, Filling and sealing. William Brand & Co. 244,958; July 31; Serial No. 264,348; published May 22, 1928.
Compounds, Seed-treating. Grasselli Chemical Company. 244,957; July 31; Serial No. 264,429; published May 22, 1928.
Cream, cold, vanishing, hand, etc. C. M. Gillman. 244,907; July 31; serial No. 255,553; published May 15, 1928.
Deodorant. Plough Chemical Company. 244,814; July 31; serial No. 240,876; published Apr. 12, 1927.
Exterminator, Rat and mice. Klizem Products Company. 244,867; July 31; Serial No. 263,952; published May 15, 1928.
Flux, Brazing and welding. Imperial Brass Manufacturing Company. 244,960; July 31; Serial No. 252,153; published May 22, 1928.
Hair wash. Felix Tempest Co. 69,597; renewed June 23, 1928.
Herbs in tea tablets, powder, and oil form. J. J. De Cock. 244,864; July 31; Serial No. 263,865; published May 22, 1928.
Laxative cough syrup. C. S. Littell & Co. 244,920; July 31; Serial No. 264,312; published May 22, 1928.
Liniment. E. Bach. 71,702; renewed Dec. 15, 1928.
Liquefied natural gas. Phillips Petroleum Company. 244,921; July 31; Serial No. 264,256; published May 22, 1928.
Medical preparation for skin diseases. W. A. Mestrezat. 71,927; renewed Dec. 22, 1928.
Medicinal preparation. Schwelz. Kindermehl-Fabrik. 244,962; July 31; Serial 259,139; published May 22, 1928.
Medicine. Evans Chemical Company. 69,151; renewed May 19, 1928.
Medicine. McClendon Medicine Co. 244,862; July 31; Serial No. 263,961; published May 22, 1928.
Medicine, Oxygen. B. Voss. 244,954; July 31; Serial 264,784; published May 22, 1928.
Medicine, Rheumatism. Old Vet Remedy Company. 244,953; July 31; Serial No. 264,651; published May 22, 1928.
Mouth Wash and throat gargle. H. J. Wilcott. 244,885; July 31; Serial No. 226,087; published May 15, 1928.
Oil, Castor. C. S. Littell & Co. 244,919; July 31; Serial No. 264,313; published May 22, 1928.
Oil, Cod-liver. Minneapolis Drug Company. 244,956; July 31; Serial No. 264,649; published May 22, 1928.
Oils, Natural and synthetic. Heine & Co. 244,870; July 31; Serial No. 264,102; published May 22, 1928.
Oils, Natural and synthetic. Heine & Co. 244,872; July 31; Serial No. 264,104; published May 22, 1928.
Oils, photographic chemicals, etc., Aromatic. Rhodia Chemical Company. 244,949; July 31; Serial No. 242,855; published May 22, 1928.
Ointment. C. E. Fulford Limited. 69,876; renewed July 14, 1928.
Ointment for the treatment of leprosy. A. Benchetrit. 244,992; July 31; Serial No. 257,769; published May 15, 1928.
Perfumes. Tokalon Chemical Corporation. 244,883–4; July 31; Serial Nos. 235,980–1; published May 15, 1928.
Perfumes and natural and synthetic oils. Heine & Co. 244,869; July 31; Serial No. 264,103; published May 22, 1928.
Perfumes, perfume extracts, bath salts, etc. D'Orsay Perfumeries Corporation. 244,873; July 31; Serial No. 253,319; published May 22, 1928.
Perfumes, toilet powders, sachet powders, and toilet waters. C. B. Woodworth Sons Co. 70,596; renewed Sept. 15, 1928.
Perfumes, toilet waters, etc. L. Bamberger & Company. 244,961; July 31; Serial No. 258,159; published May 22, 1928.
Pharmaceutical preparation. Dush6 Products Company. 244,944; July 31; Serial No. 261,051; published May 22, 1928.
Pharmaceutical preparation. J. H. Harris. 244,908; July 31; Serial No. 256,932; published May 15, 1928.
Pharmaceutical preparation. Geo. R. Nicholas & Co. 244,969; July 31; Serial No. 260,651; published May 22, 1928.
Pharmaceutical preparations. Dr. Richard Hoffbauer. 244,809; July 31; Serial No. 246,478; published Sept. 20, 1927.
Powder, Condition. Barker, Moore & Mein Co. 244,894; July 31; Serial No. 264,006; published May 15, 1928.
Preparation for restoring eyesight. N. Curtis. 244,909; July 31; Serial No. 256,813; published May 15, 1928.
Remedy for corns. Commerce Drug Co. 245,014; July 31.
Remedy, Veterinary. A. Aarons. 71,904; renewed Dec. 22, 1928.
Salts magnesium citrate, elixir sodium iodide, etc., Effervescent. Schieffelin & Co. 244,915; July 31; Serial No. 260,295; published May 15, 1928.
Salve. T. S. Faris. 244,947; July 31; Serial No. 235,133; published May 15, 1928.
Salve. N. V. Middleton. 244,959; July 31; Serial No. 264,318; published May 22, 1928.
Toilet cream. C. B. Woodworth Sons Co. 70,935; renewed Oct. 20, 1928.
Tonic. M. F. Volpe. 244,895; July 31; Serial No. 263,997; published May 15, 1928.

CLASS 7.

Cables and crane and hoist cables, etc., Wire. Vereinigte Stahlwerke Aktiengesellschaft. 244,990; July 31; Serial No. 261,292; published May 22, 1928.

CLASS 9.

Matches. Service Grocer Company. 244,856; July 31; Serial No. 264,387; published May 22, 1928.
Matches. Vulcan Match Co. 244,987; July 31; Serial No. 262,136; published Apr. 17, 1928.

CLASS 10.

Fertilizer. Synthetic Nitrogen Products Corporation. 244,971; July 31; Serial No. 264,209; published May 22, 1928.
Fertilizers. American Fertilizing Company. 69,475; renewed June 16, 1928.

CLASS 13.

Hitches and other like cordage, Rope. Midland Company. 245,012; July 31.
Pipe fittings, valves, etc., Metal. Cleveland Heater Company. 244,817; July 31; Serial No. 237,405; published May 22, 1928.
Sheets, Shower. Bartmann & Bixer Inc. 244,984; July 31; Serial No. 262,642; published May 22, 1928.
Wire cloth, window screen cloth, hooks, etc., Woven. Wickwire Spencer Steel Company. 244,825; July 31; Serial No. 221,343; published May 22, 1928.

CLASS 14.

Alloy, Metal. Buffalo Bronze Die Cast Corporation. 244,934; July 31; Serial No. 262,804; published May 15, 1928.
Alloys, Antifriction. Manganese Bronze and Brass Co. Limited. 69,044; renewed May 19, 1928.
Alloys, Metallic. Manganese Bronze and Brass Co. Limited. 69,043; renewed May 19, 1928.
Alloys, Metallic. Manganese Bronze and Brass Co. Limited. 69,067; renewed May 19, 1928.
Metal, Perforated. Edward C. Bowers and Charles L. Feldman, receivers. 244,832; July 31; Serial No. 260,204; published May 15, 1928.
Steels, Tool. Carpenter Steel Company. 244,863; July 31; Serial No. 263,686; published May 15, 1928.
Welding rods. Fusion Welding Corporation. 244,838; July 31; Serial No. 258,684; published May 15, 1928.

CLASS 15.

Gasoline. Transcontinental Oil Company. 244,941; July 31; Serial No. 261,594; published May 22, 1928.
Gasoline. Warner-Quinlan Company. 244,931; July 31; Serial No. 262,945; published May 22, 1928.
Gasoline, lubricants, and fuel oil. Loughborough Oil Co. 244,826; July 31; Serial No. 214,372; published Mar. 1, 1927.
Oil, Lubricating. Texas Pacific Coal and Oil Company. 244,937; July 31; Serial No. 262,381; published May 22, 1928.
Oils and greases, Lubricating. Moreland Bros. Co. 244,833; July 31; Serial No. 259,965; published May 22, 1928.
Oils and greases, Lubricating. Pierce Petroleum Corporation. 245,010; July 31.
Oils, Motor-lubricating. Texas Pacific Coal and Oil Company. 244,829; July 31; Serial No. 260,967; published May 22, 1928.

CLASS 16.

Enamel and varnish. Smith-Alsop Paint and Varnish Co. 244,902; July 31; Serial No. 264,123; published May 15, 1928.
Filler, lacquers, varnishes, brush wash, etc., White wood. L. S. Finch Chemical Corporation. 244,839; July 31; Serial No. 257,794; published May 22, 1928.
Paint enamels, varnishes, etc. Pittsburgh Plate Glass Company. 244,911; July 31; Serial No. 257,251; published May 8, 1928.
Paint pigments and paints. L. A. Sanders, jr. 244,903; July 31; Serial No. 253,608; published May 15, 1928.
Paint remover and ready-mixed paints. Non-Parel Paint Co. 244,819; July 31; Serial No. 234,627; published May 22, 1928.
Paints, Ready-mixed. Everseal Manufacturing Co. Inc. 244,860; July 31; Serial No. 264,292; published May 22, 1928.
Paints, varnishes, prepared shellacs, and paint enamels. Hetson Company. 244,836; July 31; Serial No. 259,171; published May 22, 1928.
Painter's size. Double Tooth Size Manufacturing Company. 244,939; July 31; Serial No. 261,951; published May 22, 1928.
Paste and ready-mixed paints and lacquers. W. J. Day. 244,938; July 31; Serial No. 262,349; published May 22, 1928.
Polish, Furniture. Great American Tea Co. 244,904; July 31; Serial No. 252,380; published May 8, 1928.
Varnish. Patek Brothers, Inc. 244,889; July 31; Serial No. 260,653; published May 15, 1928.
Varnishes, japans, lacquers, etc. Cleveland Varnish Company. 70,301; renewed Aug. 18, 1928.

CLASS 17.

Cigars. A. Gutierrez. 244,924; July 31; Serial No. 264,164; published May 22, 1928.
Cigars. Eduardo Suarez Murias y Compañia. 244,925; July 31; Serial No. 263,416; published May 22, 1928.

CLASS 19.

Shock absorbers for automobiles. Societe des Amortisseurs Reglables pour Automobiles. 244,979; July 31; Serial No. 263,355; published May 22, 1928.
Vehicle wheels and rims therefor. Michelin et Cie. 244,985–6; July 31; Serial Nos. 262,523–4; published May 22, 1928.
Vehicles and parts thereof. Daimler-Motoren-Gesellschaft. 69,756; renewed June 30, 1928.

CLASS 20.

Coated fabric similar to imitation leather. Table Art Mat Company. 244,978; July 31; Serial No. 263,521; published May 22, 1928.

CLASS 21.

Batteries. R. Horowitz. 245,005; July 31.
Dishwashers, Electric. Friedley-Voshardt Co. 244,849; July 31; Serial No. 249,055; published May 22, 1928.
Electron-discharge tubes, amplifier tubes, etc. B. F. Miessner. 245,008; July 31.
Fans, electric liquid and plastic food mixers, etc., Electric. A. C. Gilbert Company. 244,834; July 31; Serial No. 259,243; published May 22, 1928.
Heaters, electric ventilling fans, etc. A. C. Gilbert Company. 244,835; July 31; Serial No. 259,242; published May 22, 1928.
Illuminating outfits, Electrical. Eastman Kodak Company. 244,933; July 31; Serial No. 262,904; published May 22, 1928.
Insulated wire. National India Rubber Co. 70,737; renewed Sept. 29, 1928.
Insulated wires. Safety Insulated Wire and Cable Company. 31,329; renewed Feb. 22, 1928.
Light installation unit and outfit, Electric. Curtis Lighting, Inc. 244,926; July 31; Serial No. 263,378; published May 22, 1928.
Radio receiving sets. A. H. Grebe & Co. 244,824; July 31; Serial No. 222,454; published April 6, 1926.
Radio receiving sets. Premier Grand Piano Corporation. 244,827; July 31; Serial No. 210,924; published May 22, 1928.
Water heater, Electric. C. S. Newcomb. 244,822; July 31; Serial No. 224,670; published May 22, 1928.

CLASS 22.

Balls, clubs, tees, and bags, Golf. Burke Golf Company. 244,887; July 31; Serial No. 260,871; published May 8, 1928.
Dolls, doll houses, doll buggies, etc. J. C. Penney Company. 244,917; July 31; Serial No. 259,966; published May 15, 1928.
Golf balls. Advertising Golf Ball Corporation. 244,897–9; July 31; Serial Nos. 263,910–12; published May 15, 1928.
Golf practice machines, golf bags, tees, etc. Playgolf, Inc. 245,013; July 31.
Swings, Whirling. Merry-Whirl Swing Manufacturing Co. 244,914; July 31; Serial No. 260,340; published May 15, 1928.

CLASS 23.

Conveyors, shaker conveyors, etc., Belt. Mining Engineering Company. 244,965; July 31; Serial No. 269,184; published May 22, 1928.
Diggers, Posthole. Henry Disston & Sons, Incorporated. 70,859; renewed Oct. 13, 1928.
Files. Nicholson File Company. 71,833; renewed Dec. 15, 1928.
Hoes. Norvell-Shapleigh Hardware Company. 69,776; renewed July 7, 1928.
Machinery. Bartz, Wygant & Brown, Inc. 69,658; renewed June 30, 1928.
Machines. C. G. Haubold Aktiengesellschaft. 244,876; July 31; Serial No. 255,062; published May 22, 1928.
Machines, Centrifugal. Hydro-Centrifugals, Inc. 244,951; July 31; Serial No. 246,553; published May 22, 1928.
Pumps and agitating, thickening, classifying, and flotation apparatus. Hydrotator Company. 244,865; July 31; Serial No. 263,873; published May 22, 1928.
Razors and safety-razor blades, Safety. Treet Safety Razor Corporation. 244,922; July 31; Serial No. 264,662; published May 22, 1928.
Saws. Henry Disston & Sons, Incorporated. 70,860; renewed Oct. 13, 1928.
Screw drivers. Henry Disston & Sons, Incorporated. 70,857; renewed Oct. 13, 1928.
Screw drivers, Hand-operated. Henry Disston & Sons, Incorporated. 71,131; renewed Nov. 3, 1928.
Shaft supports, shaft hangers, bearings, etc. Dodge Manufacturing Corporation. 244,945; July 31; Serial No. 205,323; published May 22, 1928.
Tools, Gliding. W. H. Coe Manufacturing Company. 70,821; renewed Aug. 18, 1928.

CLASS 24.

Washboards. F. Martin, sr. 244,859; July 31; Serial No. 264,244; published May 22, 1928.

CLASS 26.

Devices designed to be applied to automobiles, Oil. McClellan and Seward. 244,910; July 31; Serial No. 256,960; published May 22, 1928.
Film, Motion-picture. S. M. Marcus. 244,952; July 31; Serial No. 246,917; published May 22, 1928.
Machine, Calculating. A. C. Meyer. 244,874; July 31; Serial No. 253,475; published May 22, 1928.
Meters, voltmeters, etc., Current. Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. 244,845; July 31; Serial No. 253,962; published May 22, 1928.
Meters, voltmeters, water meters, etc., Current. Siemens & Halske Aktiengesellschaft. 244,846; July 31; Serial No. 253,959; published May 22, 1928.

CLASS 27.

Watches. Sprechnle & Company. 71,970; renewed Dec. 22, 1928.
Watches and watchcases. M. Lugerman. 244,912; July 31; Serial No. 257,424; published May 15, 1928.
Watches and watchcases. South Bend Watch Co. 244,999; July 31.
Watches, watch movements, and watchcases. Dinhofer Bros. Inc. 244,929; July 31; Serial No. 263,117; published May 22, 1928.

CLASS 28.

Badges, lapel buttons, cuff links, etc., Fraternity. Honor Society of Phi Kappa Phi. 244,811; July 31; Serial No. 245,985; published May 22, 1928.
Badges, lapel buttons, cuff links, etc., Fraternity. Pi Beta Phi Fraternity. 244,812; July 31; Serial No. 245,028; published May 22, 1928.
Badges, lapel buttons, cuff links, etc., Fraternity. Sigma Kappa Sorority. 244,810; July 31; Serial No. 246,127; published May 22, 1928.
Fraternity badges, shields, lockets, etc. Sigma Nu Fraternity. 244,879; July 31; Serial No. 251,105; published May 15, 1928.
Jewelry. Oscar Heyman & Brothers. 244,935; July 31; Serial No. 262,848; published May 22, 1928.
Jewelry. O. Pennino. 244,906; July 31; Serial No. 255,465; published May 15, 1928.
Jewelry, Fraternal. Omicron Pi Sigma Fraternity. 244,818; July 31; Serial No. 236,334; published May 22, 1928.
Pearls, necklaces, earrings, hatpins, etc. Cohn & Rosenberger, Inc. 244,928; July 31; Serial No. 263,199; published May 22, 1928.

Rings, bar pins, bracelets, watch chains, watch tabs, etc. Dinhofer Bros. Inc. 244,930; July 31; Serial No. 263,116; published May 22, 1928.
Rings, Finger. Henry Rufelsen, Inc. 244,847; July 31; Serial No. 252,914; published May 22, 1928.
Rings, gold and platinum badges, etc., Finger. Wefferling, Berry, Wallraff Co. 244,943; July 31; Serial No. 261,087; published May 22, 1928.
Studs, Shirt. Baer & Wilde Company. 245,009; July 31.

CLASS 30.

Porcelain and china ware of all kinds. Rosenthal China Corporation. 244,852; July 31; Serial No. 264,699; published May 22, 1928.

CLASS 32.

Cabinets, folding beds, etc., Phone. A. P. Willis. 244,953; July 31; Serial No. 250,587; published May 22, 1928.

CLASS 33.

Bottles, Glass. Standard Glass Co. 71,949; renewed Dec. 22, 1928.

CLASS 34.

Heaters using gas as a fuel, Water. E. R. Parker. 244,840; July 31; Serial No. 257,438; published May 22, 1928.
Liquid fuel burners. Silent Automatic Corporation. 244,983; July 31; Serial No. 262,775; published May 22, 1928.

CLASS 35.

Belting, Rubber and fabric machinery. Mining Engineering Company. 244,966; July 31; Serial No. 260,185; published May 22, 1928.
Packing, Asbestos. New Jersey Asbestos Company. 71,237; renewed Nov. 10, 1928.

CLASS 36.

Musical instruments. C. L. Farrand. 245,006; July 31.
Needles, Phonograph. Oke Phonograph Corporation. 244,927; July 31; Serial No. 263,226; published May 22, 1928.
Pianos and player actions for player pianos and wind musical instruments, Player. Pratt Read Player Action Company. 244,830; July 31; Serial No. 260,910; published May 15, 1928.
Pianos and player pianos. C. C. Harvey Company. 245,007; July 31.
Pianos, Player. Rudolph Wurlitzer Company. 245,011; July 31.
Reeds for clarinets, saxophones, etc. E. J. Amundson. 244,942; July 31; Serial No. 261,474; published May 22, 1928.

CLASS 37.

Books. United States Corporation Company. 69,715; renewed June 30, 1928.
Fabrics for walls and ceilings, Decorative. Sanative Company. 70,610; renewed Sept. 15, 1928.
Paper. Neenah Paper Company. 245,008; July 31.
Paper and box board, Wrapping. Hersey Paper Company. 244,996; July 31.
Paper, envelops, tablets, and blank books. J. C. Blair Company. 71,143; renewed Nov. 3, 1928.
Paper knives, pad holders, letter openers, paper weights, etc. J. E. Mergott Company. 244,940; July 31; Serial No. 261,900; published Apr. 3, 1928.
Pencils, Lead. Eagle Pencil Company. 71,223; renewed Nov. 10, 1928.
Pens and pencils, Safety clips for fountain. L. E. Waterman Company. 71,855; renewed Dec. 15, 1928.

CLASS 38.

Magazine. E. Hubbard. 69,910; renewed July 14, 1928.

CLASS 39.

Boots and shoes of leather, cloth, and satin. Frank Brothers. 71,578; renewed Dec. 1, 1928.
Hosiery. Burson Knitting Company. 71,429–30; renewed Nov. 24, 1928.
Hosiery. Lord & Taylor. 71,201; renwed Nov. 10, 1928.
Moccasins. Shields Brothers. 70,187; renewed Aug. 11, 1928.
Shoes and slippers. H. C. Godman Company. 70,102; renewed July 28, 1928.

CLASS 42.

Cotton piece goods. Pomona Mills, Inc. 245,001; July 31.
Cotton, rayon, and alpaca, and combinations of the same, Piece goods of. Robinson & Golluber. 244,854; July 31; Serial No. 264,696; published May 22, 1928.
Curtains and lace and muslin for making curtains, Window. Martin Manufacturing Company. 70,892–3; renewed Oct. 13, 1928.
Elastic fabrics. George C. Moore Company. 244,821; July 31; Serial No. 224,878; published May 22, 1928.
Fabrics in the piece of silk, artificial silk, etc. Frank & Cohen Silk Corp. 244,853; July 31; Serial No. 264,677; published May 22, 1928.
Goods, Piece. Safety Glass and Xetal Products, Limited. 244,848; July 31; Serial No. 249,926; published May 22, 1928.
Muslin. Martin Manufacturing Company. 70,891; renewed Oct. 13, 1928.
Robes, steamer rugs, and camel-hair blankets, Motor. Hurwitt Co. Inc. 244,981; July 31; Serial No. 263,154; published May 22, 1928.
Silk, cotton, and wool piece goods. Haas Brothers Fabrics Corporation. 244,857; July 31; Serial No. 264,301; published May 22, 1928.
Silk piece goods. Empire Silk Company. 244,851; July 31; Serial No. 264,813; published May 22, 1928.
Silk piece goods. Holman & Frans, Inc. 244,976; July 31; Serial No. 263,825; published May 22, 1928.
Silk piece goods. Stehlisilks Corporation. 244,980; July 31; Serial No. 263,231; published May 1, 1928.
Silk piece goods and silk-mixed piece goods. Susquehanna Silk Mills. 71,693; renewed Dec. 8, 1928.
Woolen cloth. A. L. Goldfine. 244,989; July 31; Serial No. 261,956; published May 22, 1928.
Woolen piece goods. Forstmann & Huffmann Company. 244,855; July 31; Serial No. 264,575; published May 22, 1928.
Woolen piece goods. Forstmann & Huffmann Company. 244,982; July 31; Serial No. 263,143; published May 22, 1928.

CLASS 44.

Cotton, absorbent gauze, and sanitary napkins, Absorbent. San-Nap-Pak Mfg. Co. Inc. 244,842; July 31; Serial No. 256,218; published May 22, 1928.
Electrotherapeutic pads and belts. J. Wieden. 244,850; July 31; Serial No. 248,337; published July 19, 1927.
Inhalers. G. W. McDonald. 244,861; July 31; Serial No. 264,245; published May 22, 1928.
Light and vibration massage device, Electrical. A. B. Walker. 244,993; July 31; Serial No. 258,053; published May 15, 1928.
Massaging appliances. Exersaager Corporation. 244,890; July 31; Serial No. 260,437; published May 15, 1928.
Pads and shields for corns, etc. Scholl Mfg. Co. Inc. 244,932; July 31; Serial No. 262,939; published May 22, 1928.
Sheeting, Hospital rubber and sanitary rubber. J. C. Penney Company. 244,888; July 31; Serial No. 260,845; published May 8, 1928.

CLASS 45.

Beverage, Tonic. F. H. Keron. 70,731; renewed Sept. 29, 1928.
Ginger ale and beverages. H. Woerts. 244,948; July 31; Serial No. 242,645; published May 22, 1928.

CLASS 46.

Alimentary pastes. Westchester Macaroni Co. 244,991; July 31; Serial No. 257,718; published May 15, 1928.
Bacon. Kingan and Company. 71,667; renewed Dec. 8, 1928.
Bread. Texas Bread Company. 244,882; July 31; Serial No. 244,800; published May 15, 1928.
Butter and cheese. New Zealand Dairy-Produce Control Board. 244,843; July 31; Serial No. 254,976; published Feb. 21, 1928.
Candy. Freeser Co. 244,878; July 31; Serial No. 256,108; published May 22, 1928.
Candy. Mexican Pecan Candy Company. 244,913; July 31; Serial No. 257,429; published May 22, 1928.
Candy. New England Confectionery Company. 244,923; July 31; Serial No. 264,182; published May 22, 1928.
Candy. Seeman Brothers, Inc. 244,844; July 31; Serial No. 254,692; published Nov. 1, 1927.
Candy and bars, Box. Keeley's Candies, Inc. 244,998; July 31.
Canned corn. Warrensburg Canning Co. 244,808; July 31; Serial No. 246,865; published May 31, 1927.
Canned fish. Seeman Brothers, Inc. 244,877; July 31; Serial No. 255,318; published May 1, 1928.
Canned fresh cape lobster. H. Dubler. 71,780; renewed Dec. 15, 1928.
Canned fruits and fruit preserves, etc. J. T. Fargason Grocer Co. 244,813; July 31; Serial No. 244,144; published May 22, 1928.
Canned fruits and vegetables. S. Ruby. 244,950; July 31; Serial No. 245,454; published May 1, 1928.
Canned fruits, canned vegetables, etc. I. Dickman & Sons. 244,815; July 31; Serial No. 238,777; published May 22, 1928.
Canned salmon. A. Booth and Company. 71,488; renewed Nov. 24, 1928.
Canned vegetables. Strasbaugh, Silver & Co. 69,713; renewed June 30, 1928.
Carob in paste or powdered form, Preparation of. Borden & Remington Co. 244,841; July 31; Serial No. 256,394; published May 22, 1928.
Cheese. Emmental Cheese Corporation. 244,904–5; July 31; Serial Nos. 255,236–7; published May 15, 1928.
Cheese. Royal Importing Co. 244,837; July 31; Serial No. 259,017; published Feb. 14, 1928.
Coffee compound. C. M. Watson. 244,816; July 31; Serial No. 237,523; published Jan. 18, 1927.
Cookies. Martin Baking Company. 244,886; July 31; Serial No. 211,690; published May 8, 1928.
Extracts, Flavoring. Virginia Dare Extract Company. 244,988; July 31; Serial No. 262,007; published May 22, 1928.

Extracts for foods, Flavoring. Finn Chemical Company. 245,015; July 31.
Flour, Wheat. Noblesville Milling Company. 31,557; renewed May 17, 1928.
Flour, Wheat. Vignes-Bombet Grocer Co. Inc. 244,997; July 31.
Fruits, Chocolate-covered frozen. Southern Cone Manufacturing Company. 244,994–5; July 31; Serial Nos. 263,977–8; published May 22, 1928.
Fruits, Fresh citrus. Sweetwater Fruit Company. 244,946; July 31; Serial No. 234,324; published May 22, 1928.
Gelatin. Crystal Gelatine Company. 70,410; renewed Aug. 25, 1928.
Grapes, Fresh. Lodi Fruit Growers Association. 245,000; July 31.
Honey. I. Rokeach & Sons, Inc. 244,918; July 31; Serial No. 260,959; published May 15, 1928.
Honey and hay. C. B. Justice. 244,820; July 31; Serial No. 228,318; published May 22, 1928.
Honey, orange honey, etc. Southwest Honey Producers Syndicate. 244,880; July 31; Serial No. 247,976; published May 15, 1928.
Ice-cream cones. Preferred Baking Co. 244,972; July 31; Serial No. 264,197; published May 22, 1928.
Margarine, Nut. Northern Cocoanut Products Corporation. 244,900; July 31; Serial No. 263,885; published May 15, 1928.
Nuts, R. L. Hatch. 69,688; renewed June 30, 1928.
Oranges, lemons, and grapefruit. San Fernando Heights Orange Association. 244,866; July 31; Serial No. 263,896; published May 22, 1928.
Peanut butter. G. H. Blood, jr. 244,893; July 31; Serial No. 264,008; published May 15, 1928.
Peanut butter and bottled fruit preserves and fruit jellies. Griggs, Cooper & Company. 244,964; July 31; Serial No. 260,115; published May 15, 1928.
Pecans. Southern Pecan Co., Inc. 244,828; July 31; Serial No. 224,160; published May 1, 1928.
Potatoes, Fresh Irish. Cardwell Brokerage Co. 244,968; July 31; Serial No. 260,555; published May 22, 1928.
Sugars, flour, dried beans, etc. B. A. Railton Co. 244,828; July 31; Serial No. 186,928; published Feb. 8, 1927.
Syrup and extract, Malt. R. Paoli & Company. 244,973; July 31; Serial No. 264,187; published May 22, 1928.
Syrup, canned vegetables, canned sauerkraut, Malt. A. F. Schwahn & Sons Co. 245,004; July 31.
Syrup, Malt. Green River Malt Co. of Massachusetts. 244,995; July 31; Serial No, 251,903; published May 15, 1928.
Syrup, Malt. Pabst Corporation. 244,891; July 31; Serial 260,345; published May 15, 1928.
Syrup, Table. Griggs, Cooper & Company. 244,916; July 31; Serial No. 260,118; published May 15, 1928.
Wafers. H. G. Cubbison. 244,901; July 31; Serial No. 264,082; published May 15, 1928.
Wheat breakfast food. Cream of Wheat Company. 244,892; July 31, Serial No. 264,021; published May 15, 1928.
Wheat breakfast food. Cream of Wheat Company. 244,896; July 31; Serial No. 263,929; published May 15, 1928.

CLASS 48.

Beer. A. Schreiber Brewing Co. 69,271; renewed June 2, 1928.
Beverages. M. K. Goetz Brewing Company. 244,967; July 31; Serial No. 260,500; published May 22, 1928.
Malt beverage. Peter Schoenhofen Brewing Company. 71,166–7; renewed Nov. 3, 1928.
Malt preparations. J. B. Weyermann. 66,433; renewed Nov. 26, 1928.

ALPHABETICAL LIST OF LABELS.

Airtite Tube Patch. For Tire Patches. Miller Motor Specialties, Inc. 34,377; July 31.
Beech-Nut Brand Chewing Gum. Fruit Flavored (6). For Chewing Gum. Beech-Nut Packing Company. 34,366; July 31.
Beech-Nut Brand Chewing Gum, Licorice (3). For Chewing Gum. Beech-Nut Packing Company. 34,364; July 31.
Beech-Nut Brand Chewing Gum, Licorice (4). For Chewing Gum. Beech-Nut Packing Company. 34,365; July 31.
Beech-Nut Brand Chewing Gum, Wintergreen (1). For Chewing Gum. Beech-Nut Packing Company. 34,362; July 31.
Beech-Nut Brand Chewing Gum, Wintergreen (2). For Chewing Gum. Beech-Nut Packing Company. 34,363; July 31.
Circular Handles. For Circular Handles for Umbrellas, Flagstaffs, Canes, Toys, Etc. M. C. Gardine. 34,370; July 31.
Country Candy Ham. For Candy. C. E. Gheens. 34,371; July 31.
Edmonson's Original Curatone Ointment. For Ointment. D. C. Edmonson. 34,368; July 31.
Facel Cleansing Tissues. For Cleansing Tissues. National Cellulose Corporation. 34,379; July 31.
Faith. For Pillowcases and Sheets. Riverside & Dan River Cotton Mills, Inc. 34,384; July 31.
From Buddy Squirrel's Nut Shops. For All Varieties, Forms, and Grades of Edible and Nonedible Nuts, Nut Butters, Nut Pastes, Nut Emulsions, Nut Confections, Nut Drinks and Specialties, Nut Sundae Nuts, Nut Health Foods, and Other By-Products. Continental Nut Company. 34,367; July 31.
Hovena Cleansing. For a Cleaning Preparation for Clothing, Draperies, Upholsteries, Etc. C. F. Hovey Company. 34,374; July 31.
Hoz-Ald. For Powdered Alum. Roberts Products Company. 34,385; July 31.
Improved 0 6 6, System Tonic. For Medicinal Preparation. Rothenberg Drug Co. 34,386; July 31.
Jus-Rite. For Hair Pomade. R. S. Andrews. 34,361; July 31.
La Belle. For Hairpins. Stering Pin Co. 34,388; July 31.
Odeurs—Go. For Deodorant. R. E. Flagler. 34,369; July 31.
Old Kwong. For Tonic. C. Lain. 34,375; July 31.
Merit Mello-Fit. For Hats. Trade Lithograph & Printing Company. 34,389; July 31.
Prescription No. 77. For Medicinal Tablet. Home Drug Company. 34,378; July 31.
Prosperity. For Malt Syrup. H. Sadur. 34,387; July 31.
Purity Cake. For Cake. Purity Cake Company. 34,383; July 31.
St. Patrick. For Candy. Puritan Chocolate Company. 34,382; July 31.
Saneen. For Pads for Sanitary Napkins. National Cellulose Corporation. 34,380; July 31.
Silver-Flash. For a Dirt and Grease Remover or a General Cleaner. S. R. Lester. 34,376; July 31.
Silvitol Volatile Oil. For Preparation for the Relief of Muscular Pains, Insect Bites, Etc. Dr. W. D. Hammond. 34,372; July 31.
Sippel's Kreme Whipt Honey. For Honey. Mountain States Honey Producers Association. 34,378; July 31.
Sta-Strate. For Article of Men's Furnishing Goods. A. D. Williams. 34,390; July 31.
Wiola Breath Gum. For Chewing Gum. P. Pasarick 34,381; July 31.

ALPHABETICAL LIST OF PRINTS.

Do a Hand-Spring. For Athletic Underwear. B. V. D. Company. 11,125; July 31.
Eat it in Delicious Muffins. For Post's Bran Flakes. Postum Company. 11,132; July 31.
Elizabeth Arden is Personally Interested in You. For Venetian Toilet Preparations. Elizabeth Arden, Inc. 11,123; July 31.
4 Million Dollar Clothing Plan. For Men's and Boys' Clothing. Moe Levy & Son. 11,131; July 31.
Frozen Peanut Bar. For Ice Cream Bar. Henry W., Inc. 11,130; July 31.
How Easy it is to Shave When You Control Hydrolysis. For Shaving Cream. E. R. Squibbs & Sons. 11,134; July 31.
In Loose-Fitting 'B. V. D.' Union Suits. For Athletic Underwear. B. V. D. Company. 11,124; July 31.
Odeurs—Go. For Deodorant. R. E. Flagler. 11,128; July 31.
Peasant Art Industry Made in Czechoslovakia. For Examples of Peasant Art. Czecho Peasant Art Co. 11,126; July 31.
Swaggerbonds. For Hats. Delray Hat, Inc. 11,127; July 31.
The Cavern. For Lunches. G. S. O'Connor. 11,133; July 31.
When You Travel Light Travel Right. For Wardrobe Hand Luggage. Hartmann Trunk Company. 11,128; July 31.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 31ST DAY OF JULY, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal relay. 1,678,841; July 31.

Aarons, Jacob M., Cleveland Heights, Ohio. Setting structure for lumber kilns and the like. 1,679,197; July 31.

Abramson, Alexander, Prague, Czechoslovakia. Power-transmission mechanism for the driving wheels of motor vehicles. 1,678,757; July 31.

Adams, Edward T., Phoenix, Ariz., assignor to Fairbanks, Morse & Co., Chicago, Ill. Internal-combustion engine. 1,678,897; July 31.

Addressograph Company. (See Isaksen, Robert C., assignor.)

Adjusta Company. (See Hirsh, Fred, assignor.)

Advance Machine Company. (See Richardson, M. H., and Antoine, assignors.)

Affel, Herman A. (See Espenschied, L., Affel, and Anderson.)

Affel, Herman A., Maplewood, N. J., assignor to American Telephone and Telegraph Company. High-frequency measuring system. 1,678,665; July 31.

Agasote Millboard Company, The. (See Becher, Hubert L., assignor.)

Aiken, Joseph E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Microphone. 1,678,842; July 31.

Ainsworth, George, Great Neck, N. Y. Combined electric-light socket and cover. 1,679,110; July 31.

Albright, Andrew, jr., Miami, Fla., assignor to Rubber and Celluloid Products Company, Newark, N. J. Lather brush or similar article. Des. 75,892; July 31.

Alden Manufacturing Company. (See Alden, Milton, assignor.)

Alden, Milton, Springfield, assignor to Alden Manufacturing Company, Brockton, Mass. Electrical appartus. 1,678,717; July 31.

Alexander, Zeno, Kansas City, Mo. Transmission. 1,679,287; July 31.

Allegrezza, Frank, Chicago, Ill. Reminder. 1,679,198; July 31.

Allen, George H., Clinton, N. Y. Weatherproof sign. 1,679,288; July 31.

Allen, James B., Shidler, Okla., and E. O. Hamilton, Columbus, Ohio. Electric car. 1,679,068; July 31.

Allen, Robert C., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine-cylinder support. 1,678,968; July 31.

Allied Packers, Inc. (See Cushman, Arthur W., assignor.)

Altuna, Pedro, San Sebastian, Spain. Resilient vehicle wheel. 1,678,969; July 31.

Alvea, Charles B., Downers Grove, Ill. Pneumatic pump. 1,679,111; July 31.

American Cable Company. (See Scott, Rumsey W., assignor.)

American Car and Foundry Motors Company. (See Hall, Elbert J., assignor.)

American Chain Company. (See Fageol, Rollie B., assignor.)

American Cyanamid Company. (See Barsky, George, assignor.)

American Cyanamid Company. (See Buchanan, G. H., and Griffith, assignors.)

American Foundry Equipment Company, The. (See Minich, Verne E., assignor.)

American Hardware Corporation, The. (See Moore, Wallace F., assignor.)

American Heat Economy Bureau. (See Fischer, Carl, assignor.)

American Optical Company. (See Baker, Nelson M., assignor.)

American Optical Company. (See Baker, N. M., and Ljunglof, assignors.)

American Optical Company. (See Maynard, Albert E., assignor.)

American Optical Company. (See Tully, G. L., and Lacasse, assignors.)

American Radiator Company. (See Eggleston, Lewis W., assignor.)

American Smelting and Refining Company. (See Morrison, William M., assignor.)

American Stamping Co. (See Sherman, H. B., and Ordway, assignors.)

American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)

American Telephone and Telegraph Company. (See Espenschied, L., Affel, and Anderson, assignors.)

American Telephone and Telegraph Company. (See Koenig, Walter, jr., assignor.)

American Telephone and Telegraph Company. (See Potter, Ralph K., assignor.)

American Telephone and Telegraph Company. (See Toomey, John F., assignor.)

American Telephone and Telegraph Company. (See Wilson, Leon T., assignor.)

American Window Company. (See Lewis, Claude A., assignor.)

American Woodlite Corporation. (See Wood, William G., assignor.)

Amerine, De Witt C., Vincennes, Ind. Washing cooked straw. 1,678,718; July 31.

Ames, Cortlandt F., jr., Mount Vernon, N. Y., assignor to The Barrett Company. Shingle holder. 1,678,804; July 31.

Ammonia Corporation, The. (See Svanoe, Hans, assignor.)

Anderson, Carl L., Chicago, Ill. Dispensing apparatus. 1,678,628; July 31.

Anderson, Clifford N. (See Espenschied, L., Affel, and Anderson.)

Andren, Birger T., assignor to A. O. Smith Corporation, Milwaukee, Wis. Spring hanger and gusset for automobile frames. 1,678,930; July 31.

Antoine, Alfred D. (See Richardson, M. H., and Antoine.)

Appling, Grady S., El Campo, Tex., assignor of one-half to N. R. Appling, Hollywood, Calif. Douche case. 1,679,146; July 31.

Appling, Nadine R. (See Appling, Grady S., assignor.)

Arlen, Olga L., New York, N. Y. Facial bandage. 1,678,970; July 31.

Armstrong, Arthur N., assignor of one-half to H. J. Sommers, Norwich, N. Y. Striker attachment for animal traps. 1,678,898; July 31.

Arnold, Carl, Nuremberg, Germany. Spark-producing figure wheeled toy. 1,678,797; July 31.

Arnold, Edwin E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ironing machine. 1,678,843; July 31.

Ashley, Frank M. (See Benz, A. R., and Ashley.)

Ashton, William S., assignor to Hood Rubber Company, Watertown, Mass. Boot-tree or last. 1,679,016; July 31.

Ashworth, George B., Amsterdam, N. Y. Locomotive trailing truck. 1,679,147; July 31.

Asprooth, Axel H., Baltimore, Md., and A. M. Leoni, assignors to Electro-Motive Devices, Inc., Philadelphia, Pa. Effecting power transmission. 1,678,798; July 31.

Asprooth, Axel H., Baltimore, Md., and A. M. Leoni, assignors to Electro-Motive Devices, Inc., Philadelphia, Pa. Two-motor drive for vehicles. 1,678,799; July 31.

Athans, John M., New York, N. Y. Service table. 1,679,017; July 31.

Automatic Electric Inc. (See Madsen, Fred T., assignor.)

Autostrop Patents Corporation. (See Gaisman, Henry J., assignor.)

Bach, Oscar B., New York, N. Y. Upright for an andiron. Des. 75,893; July 31.

Bachmann, Wilhelm. (See Karplus, H., and Bachmann.)

Bähr, Hans, Chicago, Ill., assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Converting hydrogen sulphide into sulphur dioxide. 1,678,630; July 31.

Baillot, Alphonse E., Hull, assignor of fifty-one one-hundredths to A. H. Coplan, Ottawa, Ontario, and forty-nine one-hundredths to A. H. Coplan, Hull, Quebec, Canada. Cupola. 1,678,899; July 31.

Baker, John S., assignor to The Cook Electric Company, Chicago, Ill. Heat coil. 1,678,800; July 31.

Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Machine lubrication. 1,679,199; July 31.

Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Grindstone honing device. 1,679,200; July 31.

Baker, Nelson M., and G. L. Ljunglof, assignors to American Optical Company, Southbridge, Mass. Universal stone mounting. 1,679,201; July 31.

Baldridge, Charles W., Chicago, Ill. Rail anchor. 1,679,112; July 31.

Barber-Colman Company. (See Colman, Howard D., assignor.)

Barclay, William J., assignor of one-half to W. A. King, Springfield, Mo. Attachment for checkrow planters. 1,678,758; July 31.

Barker, John, London, England. Vehicle tire. 1,678,631; July 31.
Barrett Company, The. (See Ames, Cortlandt F., jr., assignor.)
Barrett Company, The. (See Gerges, Wesley R., assignor.)
Barrett Company, The. (See Miller, S. P., and Hill, assignor.)
Barsky, George, assignor to American Cyanamid Company, New York, N. Y. Making esters. 1,678,719; July 31.
Bartling, Friedrich, Munich, Germany. Gas-tight seal for relatively moving parts of. 1,679,018; July 13.
Bass, E. & J., Inc. (See Tennhardt, Elsa, assignor.)
Basskin, Benjamin, St. Louis, Mo. Trousers. 1,679,148; July 31.
Baumgärtner, Friedrich W., Berlin-Schoneberg, assignor to F. A. Baumgartner, Dr. Katz & Co. G. m. b. H., Elswerder-Spandau, Germany. Manufacture of hollow bodies from fibrous-material pulp. 1,678,759; July 31.
Bausch & Lomb Optical Co. (See Poser, Max, assignor.)
Beall, Charles R., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,679,015; July 31.
Becher, Hubert L., Trenton, assignor to The Agasote Millboard Company, Ewing Township, N. J. Sizing fibers. 1,678,720; July 31.
Beehman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Changeable rotary folder. 1,679,289; July 31.
Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,678,801; July 31.
Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,678,802; July 31.
Becton, Dickinson & Co. (See Marschalek, Alexander, assignor.)
Benbow, James D., assignor to Western Wheeled Scraper Company, Aurora, Ill. Fluid-pressure-operated mechanism for dump cars. 1,678,900; July 31.
Bennett, William A. (See Talley, Gus E., assignor.)
Benz, Alice R., and F. M. Ashley, Brooklyn, N. Y. Shirt for men's wear. 1,678,629; July 31.
Berg, Christian P., Chicago, Ill. Hydrating lime. 1,679,149; July 31.
Bergesen, John, sr., Brooklyn, N. Y. Portable metal structure. 1,678,971; July 2.
Berkshire Magneto Co. (See Brown, Avery E., assignor.)
Berner, Gotthold P. (See Pinkel, A. F., and Brunner, assignors.)
Bernhardt, Roy P., and V. D. Black, jr., Livermore, Calif. Axle gauge. 1,678,761; July 31.
Beskow, Bernhard M., New Haven, Conn. Golf register. 1,678,762; July 31.
Bessler, Vetal, Brooklyn, N. Y. Upright piano. 1,679,290; July 31.
Betzold, Nicholas W., Brainerd, Minn. Furnace hood. 1,679,150; July 31.
Bierbrauer, Otto A. (See Helland, N. E., Harrison, and Bierbrauer.)
Binz, Arthur, Berlin, and C. Räth, Rangsdorf, Germany. Preparation of arsenic compounds. 1,678,760; July 31.
Bird, Clifton, Hardesty, Okla. Automobile abstract. 1,678,666; July 31.
Birbaum, Harry A., assignor of one-half to A. S. Cobden, Troy, N. Y. Dispensing device. 1,679,237; July 31.
Bishop, Joseph W., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Toilet-seat hinge. 1,679,202; July 31.
Black, Nathaniel S., Newtonville, assignor to The Casey Foster Co., Boston, Mass. Convertible hand truck and vehicle. 1,679,325; July 31.
Black, Victor D., jr. (See Bernhardt, R. P., and Black.)
Blackburn, Guy W., Elgin, Ill. Speedometer. 1,679,203; July 31.
Blaw-Knox Company. (See Bradshaw, Grant D., assignor.)
Blumberg, Harry, and M. A. Mikesh, assignors to A. O. Smith Corporation, Milwaukee, Wis. Production of pipe couplings by centrifugal casting. 1,678,931; July 31.
Blunt, James G., Schenectady, N. Y. Truck for railroad vehicles. 1,679,151; July 31.
Boehringer, John A., Springfield, assignor to Star Chandelier Co., Inc., New York, N. Y. Front plate for an electric wall bracket or similar article. Des. 75,894; July 31.
Boehringer, John A., Springfield, assignor to Star Chandelier Co., Inc., New York, N. Y. Electric wall bracket or similar article. Des. 75,895; July 31.
Boehringer, John A., Springfield, assignor to Star Chandelier Co., Inc., New York, N. Y. Chandelier or similar article. Des. 75,896; July 31.
Boehringer, John A., Springfield, assignor to Star Chandelier Co., Inc., New York, N. Y. Combined strap and arm for lighting fixtures or similar articles. Des. 75,897; July 31.
Boehringer, John A., Springfield, assignor to Star Chandelier Co., Inc., New York, N. Y. Electric wall bracket or similar article. Des. 75,898; July 31.
Boles, Henry A., Middlebury, Vt. Seat back. 1,679,238; July 31.
Bolzer, Thomas P., Gloucester, Mass. Chemical-can rack for ice-cream cabinets. 1,678,763; July 31.
Booth, William N., Detroit, Mich. Vehicle wheel. 1,679,113; July 31.
Borden Company, The. (See Green, Lee B., assignor.)
Bossert Corporation, The. (See Clement, Walter J., assignor.)
Bowen, George W., San Diego, Calif. Hydrocarbon burner. 1,679,152; July 31.
Boyce, William D., New York, N. Y. Smoke consumer and soot blower. 1,678,764; July 31.
Brackett, Edward M. and F. M., Topeka, Kans. Cut-off mechanism for stripping machines. 1,678,667; July 31.
Brackett, Fred M. (See Brackett, Edward M. and F. M.)
Bradshaw, Grant D., Pittsburgh, assignor, by mesne assignments, to Blaw-Knox Company, Blawnox, Pa. Fluid separator. 1,678,844; July 31.
Braun, Philip N., assignor to the Prosperity Company Inc., Syracuse, N. Y. Pressing machine. 1,679,019; July 31.
Brent, George F., Eugene, Oreg. Piston. 1,679,020; July 31.
Bridgeport Brass Company. (See Oakley, Erastus G., assignor.)
Briggs, Frederick, assignor to Briggs Packing Co., Washington, D. C. Scrapple package. 1,678,632; July 31.
Briggs Packing Co. (See Briggs, Frederick, assignor.)
Britsch, Otto C. (See Rothenberg, H., and Britsch.)
Bronberger, Frank, Northport, N. Y. Air cushion. 1,678,972; July 31.
Brown, Avery E., assignor to Berkshire magneto Co., Pittsfield, Mass. Magneto-electric machine. 1,679,069; July 31.
Brown, John L., Catonsville, Md. Thermostatic device. 1,679,070; July 31.
Brown, Vincent H., Ozone Park, N. Y., assignor to Radio Corporation of America. Signal-monitoring system. 1,678,973; July 31.
Bruce, Alfred W., New York, N. Y. Locomotive truck. 1,679,153; July 31.
Brunnell, Earl C., Stratford, Conn., assignor to J. J. King, New York, N. Y. Safety razor. 1,678,933; July 31.
Brunner, Matthew J. (See Pinkel, A. F., and Brunner.)
Brunswick-Balke-Collender Company, The. (See Bishop, Joseph W., assignor.)
Bryan, William E., assignor to Slack & Parr Limited, Kegworth, Derby, England. Petrol and other measured-quantity delivery pump. 1,679,021; July 31.
Bryant Heater and Manufacturing Company, The. (See Fox, Otto, assignor.)
Buchanan, Guy H., Westfield, and P. W. Griffith, Elizabeth, N. J., assignors to American Cyanamid Company, New York, N. Y. Recovering combined nitrogen from crude calcium cyanamide. 1,678,721; July 31.
Bucher, Armin. (See Staudinger, H., Tobler, Stocker, Müller, and Bucher.)
Bucky, Gustav, New York, N. Y. X-ray tube. 1,679,332; July 31.
Budd Wheel Company. (See Smith, John W., assignor.)
Bühler, Georg, Steinenkirch, near Geislingen-on-the-Steige, Germany. Suction apparatus. 1,678,932; July 31.
Burchartz, Heinrich, Gelsenkirchen, Germany, assignor, by mesne assignments, to Centrifugal Pipe Corporation. Casting pipe. 1,678,633; July 31.
Burner, William L., Koppel, Pa., and O. E. Kantenwein, Oak Park, Ill., assignors to Koppel Industrial Car and Equipment Company, Pittsburgh, Pa. Dump car. 1,678,765; July 31.
Burton, Paul C. (See Galloway, R. M., and Burton.)
Busch-Sulzer Bros.-Diesel Engine Company. (See Philipp, Otto, assignor.)
Busch-Sulzer Bros.-Diesel Engine Company. (See Schaer, Charles, assignor.)
Butler, James A., assignor to Pneumatic Scale Corporation, Ltd., Norfolk Downs, Mass. Package-labeling machine. 1,678,805; July 31.
Byers, Stanley, Bedford, Ind. Cushioning handle for pneumatic tools. 1,679,291; July 31.
Caldwell, Otto H., Houston, Tex. Cutter. 1,679,022; July 31.
California Card Manufacturing Company. (See Helmquest, William J., assignor.)
Campbell, James, Montrose, Calif. Brick hammer. 1,679,071; July 31.
Carlson, Walter C., assignor to Milwaukee Paper Box Company, Milwaukee, Wis. Picture-display device for candy boxes or the like. 1,678,722; July 31.
Carmichael, John R., Dormont, Pa. Bowling pin. 1,679,072; July 31.
Carmichael, John R., Dormont, Pa. Billiard cue. 1,679,073; July 31.
Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Cooling tank. 1,679,292; July 31.
Carrey-Morse Engineering Company. (See Carrey, John O., assignor.)
Carroll Corporation. (See Carroll, Edward M., assignor.)
Carroll, Edward M., Sanford, Fla., assignor to Carroll Corporation, Atlanta, Ga. Side arch brick. Re17,052; July 31.
Carter, Ray L., Phoenix, N. Y. Template for guiding routers. 1,679,074; July 31.
Casey Foster Co., The. (See Black, Nathaniel S., assignor.)

Cassereau, Henri, Mexico, Mexico. Photographic-film drier. 1,679,239; July 31.
Cawley, George, Montclair, N. J., assignor to The Permutit Company, New York, N. Y. Process of and apparatus for treating water. 1,678,766; July 31.
Centorrino, Marcello, New York, N. Y. Instructing device. 1,678,689; July 31.
Centrifugal Pipe Corporation. (See Burchartz, Heinrich, assignor.)
Centrifugal Pipe Corporation. (See Holthaus, Johann, assignor.)
Chandler, Edward F., Brooklyn, N. Y. Remote control system. 1,678,634; July 31.
Chemipulp Process, Inc. (See Dunbar, Thomas L., assignor.)
Cherry, Oscar A., and C. F. Chosa, assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Plastic composition and production thereof. 1,678,635; July 31.
Chicago Telephone Supply Company. (See Frost, Herbert H., assignor.)
Chicago Telephone Supply Co. (See Schellenger, Newton C., assignor.)
Chocolat Tobler Holding Co. Aktiengesellschaft. (See Egli, Arnold A., assignor.)
Chosa, Cletus F. (See Cherry, O. A., and Chosa.)
Christensen, Niels A., Cleveland, Ohio. Transmission brake mechanism. 1,679,154; July 31.
Chryst, William A., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Ignition apparatus. 1,678,934; July 31.
Churchward, Jack, New Haven, Conn. Vulcanizing pan. 1,679,114; July 31.
Clark, J. B., Company, The. (See Kalgren, John E., assignor.)
Clark, Paul L., Brooklyn, N. Y. Electrical phototelescopic apparatus. 1,678,974; July 31.
Clement, Walter J., assignor to The Bossert Corporation, Utica, N. Y. Rotary-hammer grinding mill. 1,678,723; July 31.
Cleveland Hardware Company, The. (See Riordan, John M., assignor.)
Clum Manufacturing Company. (See Winning, Robert K., assignor.)
Coates, William A., Chorlton-cum-Hardy, and D. R. Davies, Stretford, Manchester, England, assignors to Westinghouse Electric & Manufacturing Company. Electrical switch gear. 1,678,845; July 31.
Coates, William A., Chorlton-cum-Hardy, and G. E. Gittins and D. R. Davies, Manchester, England, assignors to Westinghouse Electric & Manufacturing Company. Electrical switch gear. 1,678,845; July 31.
Cobden, Alan S. (See Birnbaum, Harry A., assignor.)
Cochran, James M. (See Scott, G. A., and Cochran.)
Cocker, George B., Gastonia, N. C. Yarn-winding apparatus. 1,678,975; July 31.
Coder, Joseph and L., St.-Marcel-les-Marseille, France. Hoisting mechanism for dumping trucks. 1,679,075; July 31.
Coder, Louis. (See Coder, Joseph and L.)
Coleman Auto Spring Suspension Company. (See Coleman, Stephen L. C., assignor.)
Coleman, Stephen L. C., Fredericton, New Brunswick, Canada, assignor to Coleman Auto Spring Suspension Company, Limited. Vehicle suspension. 1,678,847; July 31.
Collier, David R., assignor to Collier-Keyworth Company, Gardner, Mass. Tilting chair. 1,678,668; July 31.
Collier, David R., assignor to Collier-Keyworth Company, Gardner, Mass. Wheel. 1,678,669; July 31.
Collier-Keyworth Company. (See Collier, David R., assignor.)
Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Bobbin skewer. 1,678,806; July 31.
Commonwealth Steel Company. (See Sheehan, William M., assignor.)
Copey, James D., and B. Garlius, assignors to Star Service Hanger Co., Detroit, Mich. Wireworking machine. 1,679,204; July 31.
Conili, Fernan O., Marseille, France. Refrigeration. 1,679,205; July 31.
Connell, Edwin L. (See Schneider, F., and Connell.)
Connell, Edwin L., assignor to The Van Dorn Electric Tool Company, Cleveland, Ohio. Power hand tool. 1,679,155; July 31.
Connell, James F., Lincoln, Nebr. Baking device. 1,678,690; July 31.
Cook Electric Company, The. (See Baker, John S., assignor.)
Cooper, Roy D., Oakland, Calif. Combination tool. 1,678,807; July 31.
Coplan, Archibald H., et al. (See Baillot, Alphonse E., assignor.)
Cox, Edwin, Richmond, Va., assignor to Tobacco By-Products and Chemical Corporation, Louisville, Ky. Testing nicotine solutions. 1,678,636; July 31.
Craig, Edward, St. Joseph, assignor to Saranac Automatic Machine Corporation, Benton Harbor, Mich. Machine for making baskets. 1,678,848; July 31.
Craig, Edward, St. Joseph, Mich., assignor to Saranac Automatic Machine Corporation, Benton Harbor, Mich. Machinery for converting sheet material into receptacles. 1,678,901; July 31.
Cram, Wilbur D. (See Parker, Robert C., assignor.)
Crawford, Howard H., assignor to Detroit Motor Appliance Company, Detroit, Mich. Radiator attachment. 1,678,670; July 31.
Crawford, Max. (See Lockard, Obe, assignor.)
Creveling, John L., near Tucson, Ariz., assignor, by mesne assignments, to Simplex Equipment Company, Inc., New York, N. Y. Electric system. 1,678,808; July 31.
Crossingham, James H., Germantown, Pa. Undergarment. 1,679,206; July 31.
Csanyi, Henry, New York, N. Y. Antenna. 1,679,240; July 31.
Curtin, Leo P., Freehold, N. J. Making alkali-metal hydroxide. 1,678,767; July 31.
Cusack, Thomas, Company. (See Ehnborn, Charles B., assignor.)
Cushman, Arthur W., Winnetka, assignor to Allied Packers, Inc., Chicago, Ill. Preparing smoked joint meats. 1,678,809; July 31.
Cutler-Hammer Mfg. Co., The. (See Cherry, O. A., and Chosa, assignors.)
Cutler-Hammer Mfg. Co., The. (See Schmidt, Edwin X., assignor.)
Cutler-Hammer Mfg. Co., The. (See Wiegand, Henry J., assignor.)
Darco Sales Corporation. (See Lewis, George C., assignor.)
David, Michel, Jemeppe sur Meuse, Belgium. Grinding and mixing apparatus. 1,679,241; July 31.
Davies, David R. (See Coates, W. A., and Davies.)
Davies, David R. (See Coates, W. A., Gittins, and Davies.)
Davis & Furber Machine Co. (See Stevenson, Henry J., assignor.)
Davis, Lewis R., San Francisco, Calif. Piston. 1,678,768; July 31.
Davis, Thomas C., Greeley, Colo. Pressure-controlling means for wringer rolls. 1,678,849; July 31.
Dawley, Clarence A., Plainfield, N. J. Meter. 1,679,293; July 31.
Debrie, André L. V. C., Paris, France. Camera view finder. 1,678,902; July 31.
Degener Cushion Universal Corporation. (See Degener, Edward K., assignor.)
Degener, Edward K., Huntington Park, assignor to Degener Cushion Universal Corporation, Los Angeles, Calif. Universal joint. 1,679,076; July 31.
De Haen, E., A.-G. (See Karplus, H., and Bachmann, assignors.)
De la Cierva, Juan, Madrid, Spain. Aircraft with rotative wings. 1,678,935; July 31.
De la Cuesta, Francisco and M. M., J. Parapar, and S. Fals, Habana, Cuba. Advertisement holder. 1,678,691; July 31.
De la Cuesta, Manuel M. (See de la Cuesta, Francisco and M. M., Parapar, and Fals.)
Delany, Edward L., Brooklyn, N. Y. Float valve. 1,678,769; July 31.
Delco-Remy Corporation. (See Chryst, William A., assignor.)
Delco-Remy Corporation. (See Kroeger, Frederick C., assignor.)
Delco-Remy Corporation. (See Parker, Leslie O., assignor.)
Delco-Remy Corporation. (See Norviel, Harry E., assignor.)
Delco-Remy Corporation. (See Wilson, Charles E., assignor.)
Delfoe, Edward F., Brooklyn, N. Y. Fire extinguisher. 1,679,207; July 31.
De-Lite-Us Spring Clasp Corporation. (See Fridolph, J. S., and Duchesneau, assignors.)
Deming, William L., Salem, Ohio. Rotary cleanser. 1,678,850; July 31.
Denda, Friedrich W., Cleveland, Ohio. Parachute. 1,679,242; July 31.
Denison Manufacturing Company. (See McKeeby, James S., assignor.)
De Pamphilis, Gennaro, New York, N. Y. Printing-press gauge. 1,678,724; July 31.
Det Norske Aktieselskab for Elektrokemisk Industri of Norway. (See Westly, Jens, assignor.)
Detroit Motor Appliance Company. (See Crawford, Howard H., assignor.)
De Vilbiss Company, The. (See De Vilbiss, Thomas A., assignor.)
De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer. Des. 75,899; July 31.
De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer support. Des. 75,900; July 31.
De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 75,901; July 31.
De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 75,902; July 31.
Diamond State Fibre Company. (See Landt, Gustave E., assignor.)
Diamond State Fibre Company. (See McIntosh, James, assignor.)
Dietzsch, Ferdinand, Kingston-on-Thames, England. Treatment of ores of copper and other metals. 1,679,294; July 31.

Dodge, Alfred W., Zanesville, Ohio, assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Bridge wall for glass tanks. 1,679,295; July 31.

Dohse, Louis H., Toledo, Ohio. Air-brake-piston clamp. 1,678,937; July 31.

Domenico, Anthony, Brooklyn, N. Y. Brake device. 1,678,692; July 31.

Douglas, Harry A., Bronson, Mich. Circuit connecter. 1,679,333; July 31.

Douglas, Harry A., Bronson, Mich. Electric switch. 1,679,334; July 31.

Douglas, Harry A., Bronson, Mich. Circuit-continuing device. 1,679,335; July 31.

Douty, Alfred. (See Gravell, J. H., and Douty.)

Dräger, Alexander B., deceased, Lubeck, Germany; E. Dräger, née Stange, executrix. Spring clamp for breathing bags. 1,679,115; July 31.

Dräger, Alexander B., deceased, Lubeck, Germany; E. Dräger, née Stange, executrix. Breathing tube for self-rescue apparatus. 1,679,116; July 31.

Dräger, Elfriede, née Stange, executrix. (See Dräger, Alexander B.)

Drake, Herbert W., East Orange, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Potential-indicating system. 1,679,326; July 31.

Drevitson, Carl B., Somerville, Mass. Golf club. 1,678,637; July 31.

Dry Zero Corporation. (See Lindsay, Harvey B., assignor.)

Duchesneau, Jean B. A. (See Fridolph, J. S., and Duchesneau.)

Duffield, David W., assignor to Yawman & Erbe Manufacturing Co., Rochester, N. Y. Combination card container and tray. 1,678,671; July 31.

Dunbar, Thomas L., assignor, by mesne assignments, to Chemipulp Process, Inc., Watertown, N. Y. Method and apparatus for continuous cooking of fibrous material. 1,679,336; July 31.

Dunham, George W., assignor to Savage Arms Corporation, Utica, N. Y. Clutch. 1,678,638; July 31.

Dunsmore, Alexander F., Glasgow, Scotland. Hydro-extractor or centrifugal machine. 1,678,938; July 31.

Dupiech, Henry A., St. Louis, Mo. Bottle. Des. 75,903; July 31.

Duplex Printing Press Company. (See Bechman, Henry F., assignor.)

Durfee, Joseph A., Steubenville, Ohio. Method of and apparatus for casting ingots. 1,678,976; July 31.

Duro Company, The. (See Eisenhauer, Charles P., assignor.)

Dye, Clayton D., Denver, Colo. Furniture fender. 1,679,117; July 31.

Dykeman, John A., Boston Mass. Book. 1,678,673; July 31.

Eald, John R., Chicago, Ill., assignor to The Peoples Trust and Savings Bank of Chicago, trustee. Spring wheel. 1,678,693; July 31.

Eastman Kodak Company. (See Sheppard, Samuel E., assignor.)

Eaton Axle & Spring Company, The. (See Robie, Frederick C., assignor.)

Economy Products Corporation. (See Keas, Charles E., assignor.)

Economy Products Corporation. (See Voight, George F., assignor.)

Egbert, Alfred G., Pleasanton, Kans. Poultry-scalding means. 1,678,936; July 31.

Eggleston, Lewis W., Buffalo, assignor to American Radiator Company, New York, N. Y. Air-vent valve for radiators. 1,678,851; July 31.

Egli, Arnold A., Hamburg, Germany, assignor to Chocolat Tobler Holding Co., Aktiengesellschaft, Schaffhausen, Switzerland. Method and apparatus for the aligning of type carriers. 1,678,694. July 31.

Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Cracking petroleum oil. 1,679,208; July 31.

Ehnborn, Charles B., Glen Ellyn, assignor to Thomas Cusack Company, Chicago, Ill. Illuminated sign and letter therefor. 1,679,296; July 31.

Ehrenfeld, Ralph, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Terminal Cover. 1,678,852; July 31.

Ehrler, Albert, New York, N. Y. Method and apparatus for placing poles. 1,679,297; July 31.

Einfeldt, Ernest E., assignor, by mesne assignments, to French & Hecht, Inc., Davenport, Iowa. Tire mounting for traction wheels. 1,679,023; July 31.

Eisenhauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Tank. 1,678,770; July 31.

Eksergian, Edward, St. Louis, Mo., and Wallenthin, Attleboro, Mass., said Wallenthin assignor to said Eksergian. Cigarette holder. 1,679,209; July 31.

Electrical Development & Machine Company. (See Stevenson, Robert R., assignor.)

Electro-Motive Devices, Inc. (See Asprooth, A. H., and Leoni, assignors.)

Elkins, Albert J., Coral, Mich. Marl-digging machine. 1,679,118; July 31.

Ellis Adding Typewriter Company. (See Perkins, N. W., and Ens, assignors.)

Elyria Iron and Steel Company, The. (See Sussman, Maxwell H., assignor.)

Ens, Emil J. (See Perkins, N. W., and Ens.)

Esmond, Alva R., Union Grove, Wis. Lifting jack. 1,679,210; July 31.

Espenschied, Lloyd, Hollis, H. A. Affel, Brooklyn, and C. N. Anderson, New York, N. Y., assignors to American Telephone and Telegraph Company. Two-way radio telephone system. 1,678,672; July 31.

Esterow, Harry, New York, N. Y. Cigar lighter. Des. 75,904; July 31.

Evans, Silas M., Sand Springs, Okla. Gas burner. 1,679,298; July 31.

Evans, William S., Palisades Park, N. J., assignor to Lucey Manufacturing Corporation of Tennessee, Chattanooga, Tenn. Crown block. 1,679,327; July 31.

Everbrite Stove Company, The. (See Klse, William K. assignor.)

F. A. Baumgartner, Dr. Katz & Co. G. m. b. H. (See Baumgärtner, Friedrich W., assignor.)

Faber, Henry B., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Sulphonation. 1,679,211; July 31.

Fageol, Rollie B., Los Angeles, Calif., assignor to American Chain Company, Inc., Bridgeport, Conn. Bumper tip. 1,678,855; July 31.

Fairbanks, Morse & Co. (See Adams, Edward T., assignor.)

Fairbanks, Morse & Co. (See Goldberg, Morris J., assignor.)

Fairbanks, Morse & Co. (See Jahnke, Charles B., assignor.)

Fals, Santiago. (See de la Cuesta, Francisco and M. M., Larapar, and Fals.)

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Signal-valve device. 1,679,024; July 31.

Fasul, Dominick, New York, N. Y. Fire extinguisher. 1,679,243; July 31.

Fausse, Joseph, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in the manufacture of shoes. 1,678,854; July 31.

Fedders Manufacturing Company Inc. (See Slagel, Franklin G., assignor.)

Federal Pressed Steel Company. (See Hansen, F. D., and Tinker, assignors.)

Fegley, Thomas J., and G. O. Leopold, assignors to North Bros. Mfg. Co., Philadelphia, Pa. Chuck. 1,679,299; July 31.

Fekete, Stephen I., assignor to Hudson Motor Car Company, Detroit, Mich. Latch spindle and lock assembly. 1,679,026; July 31.

Fekete, Stephen I., and M. H. Toncray, assignors to Hudson Motor Car Company, Detroit, Mich. Body for automobiles. 1,679,025; July 31.

Fenneman, Mary K. (See Fenneman, William H., assignor.)

Fenneman, William H., Taft, Calif., assignor to M. K. Fenneman. Well-drill pitman bearing. 1,679,077; July 31.

Ferguson, Joseph W., Pawhuska, Okla. Sand-green scraper. 1,678,695; July 31.

Findlay, Robert, Manufacturing Company. (See Schwartz, Frederick, assignor.)

Finn, Matthew J., Pittsburgh, Pa. Pump. 1,678,977; July 31.

Fiorita, Anthony R., assignor to The Wine-Dip Company, Moberly, Mo. Jug. Des. 75,905; July 31.

Fisch, William, Atlanta, Ga. Artificial-surf bathing pool. 1,679,156; July 31.

Fischer, Carl, West Homestead, assignor to American Heat Economy Bureau, Pittsburgh, Pa. Burner. 1,679,300; July 31.

Fishel, Alvin S., Cleveland, Ohio. Brake supporting and operating mechanism. 1,678,696; July 31.

Fitz-Empire Double Pivot Last Company. (See Fitz, Guy B., assignor.)

Fitz, Guy B., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Last. 1,678,771; July 31.

Fitzgerald Manufacturing Company, The. (See Fitzgerald, Patrick J., assignor.)

Fitzgerald, Patrick J., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn. Antirattler. 1,679,244; July 31.

Flauder, Alfred J., Bridgeport, Conn. Salt and pepper shaker. Des. 75,906; July 31.

Flauder, Alfred J., Bridgeport, Conn. Salt and pepper shaker. Des. 75,907; July 31.

Fleissner, Hans, Leoben, Austria. Drying coal and like fuels. 1,679,078; July 31.

Flint Automatic Heater Company. (See Shoemaker, John T., assignor.)

Florin, Philip. (See Miller, Gordon, assignor.)

Flynn, Mortimer F., West New Brighton, assignor to New Nap System, Inc., New York, N. Y. Apparatus for reconditioning felts of paper-making machines. 1,678,978; July 31.

Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Pressure-actuated motor for operating doors or the like. 1,679,212; July 31.

Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Counterbalance for oven doors. 1,678,855; July 31.

Forshee, Frank F., Flint, Mich., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Current-indicating and illuminating means for electric ranges. 1,678,856; July 31.

Forsyth Draft-Gear Corporation. (See Forsyth, Joseph E., assignor.)

Forsyth, Joseph E., Chicago, Ill., assignor to Forsyth Draft-Gear Corporation. Draft gear. 1,679,301; July 31.

Foster, Herman J., Stowe, Vt. Milk-cooling device. 1,679,302; July 31.

Fowler, Harry P., assignor to The Waterbury Tool Company, Waterbury, Conn. Power-transmitting device. 1,679,213; July 31.

Fox, Harold E., Pittsburgh, Pa., assignor to Syntron Company. Electric percussive tool. 1,678,979; July 31.

Fox, Otto, Lakewood, assignor to The Bryant Heater and Manufacturing Company, Cleveland, Ohio. Water heater. 1,679,120; July 31.

Frankenburger, Walter. (See Müller, C., Frankenburger, and Grassner.)

Freedman, William M., Brooklyn, assignor to Sell-Best Novelty Candy Co. Inc., Brooklyn, N. Y. Box. 1,679,121; July 31.

French & Hecht, Inc. (See Einfeldt, Ernest E., assignor.)

French, Louis O., Milwaukee, Wis. Fuel-injection system. 1,679,158; July 31.

French, Louis O., Milwaukee, Wis. Circuit-control mechanism for internal-combustion engines. 1,679,159; July 31.

Fridolph, John S., New York, N. Y., and J. B. A. Duchesneau, Leominster, Mass., assignors to De-Lite-Us Spring Clasp Corporation, New York, N. Y. Pin wheel. Des. 75,908; July 31.

Friedman, Albert J., Chicago, Ill. Wedding ring. Des. 75,909; July 31.

Fries, Horace S., Madison, Wis. Milk strainer. 1,679,122; July 31.

Frommann, Gustav H. (See Wilkinson, Thomas H., assignor.)

Frost, Herbert H., Chicago, Ill. assignor, by mesne assignments, to Chicago Telephone Supply Company, Elkhart, Ind. Telephone plug. 1,678,772; July 31.

Fruhof, Phillip, Norfolk, Nebr. Belt coupling. 1,679,303; July 31.

Fuller, Claud E., assignor to New York Brick Handling Corporation, New York, N. Y. Container. 1,679,328; July 31.

Fulper, William H., Flemington, N. J. Receptacle. 1,678,810; July 31.

Furber, Eric L., Liverpool, England. Moisture-absorbing device for stoppered containing vessels. 1,678,939; July 31.

Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Treating apparatus. 1,678,773; July 31.

Gabrielson, Carl, and A. Meldrum, Syracuse, N. Y. Drilling machine. 1,679,027; July 31.

Gaertner, Gustav, assignor of one-half to the firm: Joh. Kremenezky, Vienna, Austria. Apparatus for preventing disturbances of the state of health due to seesaw and rotary motions. 1,679,245; July 31.

Gagnier, George E. (See Place, Blon C., assignor.)

Galsman, Henry J., New York, N. Y., assignor to Autostrop Patents Corporation, Dover, Del. Blade holder. 1,679,329; July 31.

Gallman, Charles E., Tulsa, Okla., assignor to Oil Well Supply Company, Pittsburgh, Pa. Polished-rod clamp. 1,679,028; July 31.

Galloway, Robert M., Richmond, Ind., and P. C. Burton, Clarendon Hills, Ill., assignors to The National Automatic Tool Company, Richmond, Ind. Snap switch for motor control. 1,678,725; July 31.

Gams, Alphonse, and G. Widmer, assignors to the firm "Society of Chemical Industry in Basle", Basel, Switzerland. Recovery of insoluble urea formaldehyde resins. 1,679,246; July 31.

Gardiner, John B. W., New York, N. Y. Protective coating for metal and the like. 1,678,980; July 31.

Garilus, Bernt. (See Coney, J. D., and Garilus.)

Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Fluid-pressure motor. 1,679,128; July 31.

Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,679,139; July 31.

Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,679,141; July 31.

Genter, Albert L., Salt Lake City, Utah, assignor to United Filters Corporation, New York, N. Y. Scraper for rotary filters. 1,678,639; July 31.

George, Enoch, jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Car coupler. 1,678,774; July 31.

Gerges, Wesley R., Philadelphia, Pa., assignor to The Barrett Company. Producing resin by polymerization. 1,679,214; July 31.

Gesellschaft für Drahtlose Telegraphie m. b. H. (See Schröter, Fritz, assignor.)

Gesellschaft für Drahttose Telegraphie m. b. H. (See von Bronk, Otto, assignor.)

Gibian, Eric H. (See Sohn, F., Marmion, and Gibian.)

Gibson, Calder C., Buffalo, N. Y. Seal press. 1,679,029; July 31.

Gibson, Louis M., Niangua, Mo. Ratchet wrench. 1,678,903; July 31.

Giebeler, Charles H., Plainfield, N. J. Thread moistener. 1,678,697; July 31.

Gilbert Bindometer Corporation. (See Gilbert, Max, assignor.)

Gilbert, Max, Bronx, assignor to Gilbert Bindometer Corporation, Brooklyn, N. Y. Measuring device. 1,679,157; July 31.

Giller, Charles W., assignor to The Shelby Salesbook Company, Shelby, Ohio. Aviator's manifolding log. 1,678,981; July 31.

Gilson, Robert M., Pittsburgh, and A. A. Skene, Wilkinsburg, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 1,679,014; July 31.

Giovannoni, Egisto. (See Pourfillet, G., and Giovannoni.)

Gittins, George E. (See Coates, W. A., Gittins, and Davies.)

Glass, Perley R., Wayland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-inserting machine. 1,678,904; July 31.

Goldberg, Morris J., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Pressure-relief means. 1,678,905; July 31.

Goldkamp, Otto B., assignor of one-half to San Diego Consolidated Gas and Electric Company and one-fourth to S. R. Siebert, San Diego, Calif. Fluid regulator. 1,679,215; July 31.

Gordon, Samuel, Brooklyn, N. Y. Toy automobile. Des. 75,910; July 31.

Graham, James G., Butte, Mont., assignor to Sullivan Machinery Company. Cleansing means for rock drills. 1,679,131; July 31.

Graham, James G., Butte, Mont., assignor to Sullivan Machinery Company. Drilling mechanism. 1,679,140; July 31.

Grant, Walter S., St. Louis, Mo. Container. 1,678,726; July 31.

Grassner, Friedrich. (See Müller, C., Frankenburger, and Grassner.)

Gravell, James H., Elkins Park, Pa. Storage and transportation of acid mixtures in steel drums. 1,678,775; July 31.

Gravell, James H., and A. Douty, Elkins Park, Pa.; said Douty assignor to said Gravell. Metal pickling. 1,678,776; July 31.

Graves, George A., Newton Center, Mass. Knife sharpener. 1,678,998; July 31.

Green, Lee B., Lakewood, assignor to The Borden Company, Warren, Ohio. Washing machine. 1,679,123; July 31.

Greene, Fred E., Berkeley, assignor to A. B. Humphrey Company, Escalon, Calif. Air-circulating device for refrigerator cars. 1,679,124; July 31.

Griffin, James C., assignor to Griffin Manufacturing Company, Erie, Pa. Spring bolt. 1,678,982; July 31.

Griffin, Joseph F., Teaneck, N. J., assignor to The Superheater Company, New York, N. Y. Locomotive-smokebox arrangement. 1,678,727; July 31.

Griffin Manufacturing Company. (See Griffin, James C., assignor.)

Griffin, Palmer W. (See Buchanan, G. H., and Griffin.)

Gstalder, Francis P., Cleveland, Ohio. Sign. 1,679,097; July 31.

Gundlach, Herman, et al. (See Sweet, Andrew T., assignor.)

Gutmann, Victor. (See Steiner, L., and Guttmann.)

Hadaway, William S., jr., New Rochelle, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Treating hydrocarbon oils. 1,678,728; July 31.

Hall, Arthur J., Gloucestershire, England, and P. L. Mardis, Swissvale, Pa., assignors to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,678,857; July 31.

Hall, Charles W., Larchmont, N. Y. Fitting for aircraft and the like. 1,678,640; July 31.

Hall, Edward N., Meadville, Pa. Method of and apparatus for forming permanent waves. 1,678,983; July 31.

Hall, Edwin W., Wallingford, assignor to Simeon L. and George H. Rogers Company, Hartford, Conn. Spoon or similar article. Des. 75,911; July 31.

Hall, Elbert J., Detroit, Mich., assignor to American Car and Foundry Motors Company, New York, N. Y. Bus-body-frame construction. 1,678,811; July 31.

Halleck, Frank A., Chicago, Ill., assignor to Sullivan Machinery Company. Forging machine. 1,679,129; July 31.

Halleck, Frank A., Chicago, Ill., assignor to Sullivan Machinery Company. Drilling apparatus. 1,679,137; July 31.

Hallett, Robert L., Brooklyn, assignor to National Lead Company, New York, N. Y. Refining petroleum oils with doctor solution. 1,678,984; July 31.

Halloway, Dayton S., Albany, Oreg. Milk-bottle lock. 1,679,080; July 31.

Hallowell, Louis S., assignor to The Prosperity Company Inc., Syracuse, N. Y. Spring-pad construction. 1,679,030; July 31.

Hamilton, Ernest O. (See Allen, J. B., and Hamilton.)

Hamilton, Paul H. (See Thomas, M. W., and Hamilton.)

Hammond, John H., jr., Gloucester, Mass. Exposure-indicating device for cameras. 1,678,729; July 31.
Hancock, Randolph B., Gary, Ind. Looping and guiding device for rolling mills. 1,679,304; July 31.
Haneberg, Hugo, New York, N. Y. Valve. 1,679,081; July 31.
Hansen, A. L., Manufacturing Company. (See Hansen, Augie L., assignor.)
Hansen, Augie L., Chicago, assignor to A. L. Hansen Manufacturing Company, Cook County, Ill. Display stand. 1,679,082; July 31.
Hansen, Frederick D., and H. W. Tinker, assignors to Federal Pressed Steel Company, Milwaukee, Wis. Brake drum and liner. 1,678,777; July 31.
Harmon, James E., et al. (See Rodgers, Ralph S., assignor.)
Harrison, Clifford C. (See Helland, N. E., Harrison, and Bierbrauer.)
Harter, Hans, Wurzburg, Germany. Apparatus for carrying out chemical reactions between gases, or vapors, or gases and vapors. 1,678,778; July 31.
Hatvani, Gabriel, Medina, Ohio. Hot-air furnace; 1,679,247; July 31.
Hauser, Emil, New York, N. Y. Table. Des. 75,912; July 31.
Hays Manufacturing Company. (See Hitchcock, Otto G., assignor.)
Hazel-Atlas Glass Co. (See Dodge, Alfred W., assignor.)
Hedström, Erik G., Stockholm, Sweden. Root-filling substance. 1,678,940; July 31.
Heimbach, William H. (See Switzer, Henry W., assignor.)
Helland, Nyman E., C. C. Harrison, and O. A. Bierbrauer, Seattle, Wash. Football-game-reporting device. 1,679,160; July 31.
Heller, H. Howard. Sound Beach, Conn. Atomizer. 1,679,305; July 31.
Helman, August E., assignor to The W. S. Tyler Company, Cleveland, Ohio. Making woven-wire screens. 1,678,941; July 31.
Helmquest, William J., assignor to California Card Manufacturing Company, San Francisco, Calif. Picture holder. 1,679,983; July 31.
Hemingray Glass Company, The. (See Holmes, Minot K., assignor.)
Henley, James T., Inverness, Miss. Vegetable and fruit display apparatus. 1,679,031; July 31.
Henry, Marion J., Kansas City, Kans. Grease cup. 1,679,216; July 31.
Herr, Shirl, Crawfordsville, Ind. Hidden-metal detector. 1,679,339; July 31.
Hill, Joseph B. (See Miller, S. P., and Hill.)
Hirsh, Fred, assignor to Adjusta Company, New York, N. Y. Slide buckle. 1,679,306; July 31.
Hitchcock, Otto G., assignor to Hays Manufacturing Company, Erie, Pa. Soap-dish support. 1,679,032; July 31.
Hoaglind, Albert J., Villa Park, Ill., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Manufacture of cylindrical castings and the like. 1,679,217; July 31.
Hobson, Arthur E., Meriden, Conn. Candlestick. Des. 75,913; July 31.
Hodgkins, Charles H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. 1,678,858; July 31.
Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Vacuum pump. 1,679,132; July 31.
Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Cooling system. 1,679,144; July 31.
Holmes, Frederick M., Springfield, assignor to Tryco Products, Inc., Westfield, Mass. Strainer. 1,679,033; July 31.
Holmes, Minot K., assignor to The Hemingray Glass Company, Muncie, Ind. Mechanical movement. 1,678,942; July 31.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Cutter chain. 1,679,135; July 31.
Holthaus, Johann, Gelsenkirchen, Germany, assignor, by mesne assignments, to Centrifugal Pipe Corporation. Process of and apparatus for centrifugal casting. 1,678,641; July 31.
Hood Rubber Company. (See Ashton, William S., assignor.)
Hood Rubber Company. (See Soderlund, Carl, assignor.)
Hooper, Rebecca E., Half Moon Bay, Calif. Pad holder and ruler. 1,679,084; July 31.
Horii, Shinjiro, Tokyo, Japan. Stencil sheet. 1,679,034; July 31.
Horix, Carl, Chicago, Ill. Combined penholder and calendar. Des. 75,914; July 31.
Hornig, Fred R., Milwaukee, Wis. Mold for composite articles. 1,678,812; July 31.
Hotstream Heater Company, The. (See Morrow, Clarance H., assignor.)
Howie, Kenneth, assignor to Wildman Mfg. Co., Norristown, Pa. Needle-selector mechanism for knitting machines. 1,678,906; July 31.
Howie, Kenneth, assignor to Wildman Mfg. Co., Norristown, Pa. Trick wheel for knitting machines. 1,678,907; July 31.
Hudson Motor Car Company. (See Fekete, Stephen L., assignor.)
Hudson Motor Car Company. (See Fekete, S. I., and Toncray, assignors.)
Huelsdonk, William A., Merced Falls, Calif. Concentrator. 1,679,035; July 31.
Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Safety or automatic release valve. 1,679,218; July 31.
Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Multiorifice valve. 1,679,219; July 31.
Hull, Luther J., Seattle, Wash. Hydraulic resistance control apparatus. 1,679,085; July 31.
Humphrey, A. B., Company. (See Greene, Fred E., assignor.)
Hupp Motor Car Corporation. (See Punke, John J., assignor.)
Hutchison, William G., Portsmouth, Ohio. Air circulator for stoves. 1,679,307; July 31.
Hyman, Henry. (See Rothenberg, H., and Britsch, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Bähr, Hans, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Meyer, K. H., and Schütte, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Müller, C., Frankenburger, and Grassner, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Seidel, Walter, assignor.)
Igou, Samuel C., St. Louis, Mo. Transmission. 1,679,036; July 31.
International Milling Company. (See Smith, Louis E., assignor.)
International Nickel Company, The. (See Pilling, N. B., and Schoener, assignors.)
International Paper Company. (See Maxim, W. D., and Mahannah, assignors.)
International Postal Supply Company of New York, The. (See Muller, William F., assignor.)
International Sugar and Alcohol Company, The. (See Koch, Fritz, assignor.)
Isaksen, Robert C., Flushing, N. Y., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Printing-plate blank and method of making. 1,678,859; July 31.
Jackson, Benjamin B., Delphi, Ind. Bottle brush. 1,678,943; July 31.
Jacobsen, Norman R., Wellington, New Zealand. Golf tee. 1,678,944; July 31.
Jahnke, Charles B., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Governor control for internal-combustion engines. 1,678,908; July 31.
Jahnke, Charles B., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Ignition system. 1,679,220; July 31.
Jenkins, Charles F., Washington, D. C. Spiral-mounted lens disk. 1,679,086; July 31.
Jennings, Irving C., South Norwalk, Conn. Pumping apparatus for handling gases and liquids. 1,678,909; July 31.
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt and pepper shaker or similar article. Des. 75,915; July 31.
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt and pepper shaker or similar article. Des. 75,916; July 31.
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt and pepper shaker or similar article. Des. 75,917; July 31.
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt and pepper shaker or similar article. Des. 75,918; July 31.
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt and pepper shaker or similar article. Des. 75,919; July 31.
Johns, Herman S., Ada, Okla. Meat tednerer. 1,678,699; July 31.
Johnson, Charles J., assignor to Swanberg Mfg. Co., Chicago, Ill. Container for leads. 1,678,642; July 31.
Johnson, Frank W., Philadelphia, Pa. Changeable-combination key lock. 1,679,087; July 31.
Johnson, John H., Santa Barbara, Calif. Food-preserving cabinet. 1,678,730; July 31.
Johnston, Arthur A. (See Stump, F., and Johnston.)
Jones, Charles E., Bradford, England. Frictional driving mechanism for machines having stop motions. 1,678,945; July 31.
Jones, Edmund H., assignor to Milwaukee Corrugating Company, Milwaukee, Wis. Corner bead. 1,678,813; July 31.
Jones & Lamson Machine Company. (See Lovely, John E., assignor.)
Jones, Wendell A. (See Sanctuary, W. C., and Jones.)
Jordan, Carl C. (See Ladd, J. W., and Jordan.)
Jordan, Carl C. (See Ladd, J. W., Williams, and Jordan.)
Jordan, Franz, Wickede-on-the-Ruhr, Germany. Plating metals with aluminum. 1,679,308. July 31.
Joyce, Bryan P., Davenport, Iowa. Cylinder head and packing. 1,678,946; July 31.
Jungk, Herbert G., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Flexible cradle mounting. 1,678,860; July 31.

Justus, Henry W., Napanoch, N. Y. Steam trap. 1,679,309; July 31.
Kalgren, John E., assignor to The J. R. Clark Company, Minneapolis, Minn. Routing machine. 1,678,814; July 31.
Kalkner, Friedrich, Mogeldorf, near Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Searchlight. 1,678,861; July 31.
Kalman Steel Company. (See White, William E., assignor.)
Kantenwein, Oscar E. (See Burner, W. L., and Kantenwein.)
Kaplan, Frank. (See Stein, B. L., and Kaplan.)
Karplus, Hans, Frankfort-on-the-Main, and W. Bachmann, assignors to the firm E. de Haen A.-G., Seelze, near Hanover, Germany. Boiler composition and making same. 1,679,037; July 31.
Kasseheer, William, Lihue, Hawaii. Sugar-cane planter. 1,678,643; July 31.
Katayama, Yoshitaro, San Bernardino, Calif. Liquid cleaning compound. 1,678,815; July 31.
Keas, Charles E., assignor to Economy Products Corporation, Los Angeles, Calif. Making corner beads and nail spacers. 1,679,248; July 31.
Keller, Lee L., Wellington, Colo. Agricultural implement. 1,678,910; July 31.
Kelley, Marion S., South Bend, Wash. Dirigible headlight. 1,678,911; July 31.
Kelm, Richard W., Binghamton, N. Y. Sighting attachment for guns. 1,679,221; July 31.
Kendig, Julian H., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. 1,678,862; July 31.
Kent, Arthur A., Ardmore, Pa. Detector apparatus. 1,679,310; July 31.
Keystone Watch Case Corporation. (See Ritschard, Victor, assignor.)
Klie, Clifford S., Hutchinson, Kans. Dental bridge. 1,678,779; July 31.
Kimball, A., Company. (See Laencher, Frederick W., assignor.)
Kinahan, James B., Detroit, Mich. Reflector arch for furnaces. 1,678,816; July 31.
Kindervater, Julius, Richmond, Va. Flexible stay bolt. 1,679,161; July 31.
King, Horace W., assignor to King-Seeley Corporation, Ann Arbor, Mich. Depth-indicating device. 1,679,222; July 31.
King, John J. (See Bunnell, Earl C., assignor.)
King-Seeley Corporation. (See King, Horace W., assignor.)
King, W. A. (See Barclay, William J., assignor.)
Kingman, Russell B., Orange, assignor to Useful Products Company, West Orange, N. J. Doorcheck. 1,678,817; July 31.
Kise, William K., assignor to The Everbrite Stove Company, Kansas City, Mo. Oil stove. Re17,053; July 31.
Kispert, Joseph J., Branford, assignor to I. Newman & Sons, Inc., New Haven, Conn. Corset. 1,678,818; July 31.
Kitchen, Joseph M. W., East Orange, N. J. Preburning preparation of fuels. 1,678,863; July 31.
Klancher, John. (See Van Brimer, G., Magrath, Klancher, and Soots.)
Klauset, Nikolai K., Christiansand, Norway. Lubricator. 1,678,731; July 31.
Knaus, Peter J., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Grinding and polishing apparatus. 1,678,732; July 31.
Knott, Admiral S., Columbus, Ohio. Automatic advertising projecting and display apparatus. 1,679,311; July 31.
Koch, Fritz, Geneva, Switzerland, assignor to The International Sugar and Alcohol Company, Limited, London, England. Removing hydrochloric acid from sugar solutions. 1,678,819; July 31.
Koehler, Albert T., Pontiac, Mich. Electric brazing machine. 1,679,088; July 31.
Koenig, Walter, jr., New York, N. Y., assignor to American Telephone and Telegraph Company. Method and apparatus for computation. 1,678,674; July 31.
Köhler, Josef, Herne, Germany. Rock drill. 1,678,985; July 31.
Kohut, Michael, Elmhurst, assignor to S. H. Pomeroy Company, Inc., New York, N. Y. Metal window. 1,679,089; July 31.
Koolhoven, Sytse F. W., Rijswijk, Netherlands. Aeroplane with three centers of propulsion arranged in a triangle. 1,679,038; July 31.
Koppel Industrial Car and Equipment Company. (See Burner, W. L., and Kantenwein, assignors.)
Koppers Company, The. (See Becker, Joseph, assignor.)
Koppers Company, The. (See Van Ackeren, Joseph, assignor.)
Koppers Development Corporation, The. (See Koppers, Heinrich, assignor.)
Koppers, Heinrich, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa. Coke-oven-door-operating apparatus. 1,678,864; July 31.
Kremenezky, Firm: Joh. (See Gaertner, Gustav, assignor.)
Kroeger, Frederick C., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Ignition timer. 1,678,947; July 31.
Kromann, Einar, Odense, Denmark. Cable socket for accumulators. 1,678,733; July 31.
Kucera, George, Grand Island, Nebr. Tool. 1,679,039; July 31.
Kühn, Wilhelm, Frankfort-on-the-Main, Germany. Fluid-operated tool. 1,678,734; July 31.
L. G. S. Devices Corporation. (See Starkey, William C., assignor.)
Lacasse, Solomon. (See Tully, G. L., and Lacasse.)
Ladd, John W., Company. (See Ladd, J. W., and Jordan, assignors.)
Ladd, John W., Company. (See Ladd, J. W., Williams, and Jordan, assignors.)
Ladd, John W., Co. (See Williams, Henry B., assignor.)
Ladd, John W., and C. C. Jordan, assignors to John W. Ladd Company, Detroit, Mich. Bottle washing, rinsing, and sterilizing apparatus. 1,678,780; July 31.
Ladd, John W., H. B. Williams, and C. C. Jordan, assignors to John W. Ladd Company, Detroit, Mich. Bottle-washing machine. 1,678,781; July 31.
Laencher, Frederick W., Elmhurst, assignor to A. Kimball Company, New York, N. Y. Marking-ticket strip. 1,678,675; July 31.
Lake, Simon, Milford, Conn. Concrete building construction. 1,679,040; July 31.
Lammert, Ferinand E., Chicago, Ill. Fluid separator and heater. 1,679,090; July 31.
Landt, Gustave E., Norristown, assignor to Diamond State Fibre Company, Bridgeport, Pa. Synthetic resin and making same. 1,679,312; July 31.
Lanz, Heinrich, Aktiengesellschaft. (See Sipp, Karl, assignor.)
Larsen, Alfred E., assignor to Unique Lamp & Casting Company, Chicago, Ill. Electric ceiling fixture. Des. 75,920; July 31.
Larsen, Alfred E., assignor to Unique Lamp & Casting Company, Chicago, Ill. Electric ceiling fixture. Des. 75,921; July 31.
Larson, Victor P., Racine, Wis. Mixing machine. 1,678,735; July 31.
Lawless, John J., Atlantic City, N. J. Soldering torch. 1,679,249; July 31.
Lawson, John F., Brooklyn, N. Y. Electric welding. 1,678,986; July 31.
Ledin, Charles, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Trunk lock. 1,678,736; July 31.
Leeper, James A., Wilkinsburg, and R. J. Strong, Oakmont, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric welding machine. 1,679,041; July 31.
Lemex, John D., Tulsa, Okla. Link. 1,679,042; July 31.
Leoni, Alfonso M. (See Asprooth, A. H., and Leoni.)
Leopold, George O. (See Fegley, T. J., and Leopold.)
Lewis, Claude A., Houston, Tex., assignor to American Window Company. Window. Re17,054; July 31.
Lewis, Frank D. (See Wildmann, E. A., and Lewis.)
Lewis, George C., New Dorp, assignor to Darco Sales Corporation, New York, N. Y. Purification of liquids. 1,678,676; July 31.
Lincoln, Rollo R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufactnring Company. Temperature-control system. 1,678,865; July 31.
Lind, Otto, Dusseldorf, Germany. Urease preparation. 1,679,250; July 31.
Lindsay, Harvey B., Oakland, Calif., assignor to Dry Zero Corporation, Wilmington, Del. Body formed of separate fibers. 1,679,251; July 31.
Lingo, Archibald E., Collingswood, N. J. Flagpole construction. 1,679,313; July 31.
Little, Alice, Santa Cruz, Calif. Cover for toilets. Des. 75,922; July 31.
Ljunglof, George L. (See Baker, N. M., and Ljunglof.)
Lockard, Obe, assignor of one-half to M. Crawford, Commodore, Pa. Rail joint. 1,679,162; July 31.
Locker, John B., St. Louis, Mo. Antislip device. 1,679,314; July 31.
Lockwood, Mary A., Margaretville, N. Y. Windshield for automobiles. 1,679,252; July 31.
Locomotive Firebox Company. (See Nicholson, John L., assignor.)
Losey, John B., and W. R. Stone, Syracuse, N. Y. Rubber-composition flooring. 1,678,948; July 31.
Loth, William A., assignor to Société Industrielle des Procedes W. A. Loth, Paris, France. System of radiogoniometry. 1,678,737; July 31.
Lovely, John E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Auxiliary grooving or facing attachment for Fay lathes. 1,679,043; July 31.
Low, Archie E., Ottawa, Ontario, Canada. Sealing means. 1,679,315; July 31.
Lucey Manufacturing Corporation of Tennessee. (See Evans, William S., assignor.)
Ludeman Brothers, Incorporated. (See Ludeman, Oscar H., assignor.)
Ludeman, Oscar H., Glen Ridge, N. J., assignor to Ludeman Brothers, Incorporated, New York, N. Y. Controlling mechanism. 1,679,044; July 31.
Luery, Michael, Chicago, Ill. Garment bag and hanger. 1,679,091; July 31.
Lutter, Clemens. (See Schranz, K., and Lutter.)
Macdonald, Laurie S., and J. E. Small, Brockton, Mass. Boot and shoe. 1,678,739; July 31.

MacMahon, James D., Niagara Falls, assignor to The Mathieson Alkali Works, New York, N. Y. Hypochlorite composition. 1,678,987; July 31.
MacMillan, Daniel J., Brooklyn, N. Y. Pneumatic-dispatch carrier. 1,679,223; July 31.
Macomber, Stanley, Massillon, assignor to The Macomber Steel Company, Canton, Ohio. Structural element. 1,678,738; July 31.
Macomber Steel Company, The. (See Macomber, Stanley, assignor.)
Madsen, Fred T., Forest Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Testing equipment for automatic telephone systems. 1,679,316; July 31.
Madvig, Gunnar, Oakland, Calif. Bracket for drapery pole or rod. Des. 75,923; July 31.
Madvig, Gunnar, Oakland, Calif. Bracket for drapery pole or rod. Des. 75,924; July 31.
Madvig, Gunnar, Oakland, Calif. Bracket for drapery pole or rod. Des. 75,925; July 31.
Magis, Auguste A. G., Paris, France, assignor to The Superheater Company, New York, N. Y. Joining pipes. 1,678,740; July 31.
Magrath, Homer A. (See Van Brimer, G., Magrath, Klancher, and Soots.)
Mahannah, Everett A. (See Maxim, W. D., and Mahannah.)
Maier, Charles, New York, N. Y. Flowerpot holder. 1,678,988; July 31.
Maimin, H., Company Incorporated. (See Maimin, Hyman, assignor.)
Maimin, Hyman, assignor to H. Maimin Company Incorporated, New York, N. Y. Cloth-cutting machine. 1,678,989; July 31.
Mallory, Harry C., deceased, Long Island City, N. Y.; S. R. Mallory, administratrix. Cooling system for internal-combustion engines. 1,678,644; July 31.
Mallory, Sue R., administratrix. (See Mallory Harry C.)
Mandery, Roy J., Lincoln, Nebr. Combined scooter, side car, and wagon. 1,679,045; July 31.
Manly, Charles M., Richmond Hill, N. Y., assignor to Overman Cushion Tire Company, Inc. Making vehicle tires. 1,678,866; July 31.
Mansfield, James F., Floral Park, N. Y. Motor clock mounting. 1,678,990; July 31.
Manville, E. J., Machine Company, The. (See Praeny, John E., assignor.)
Mardis, Paul L. (See Hall, A. J., and Mardis.)
Mares, Matthew, Racine, Wis. Plow. 1,678,741; July 31.
Markatos, Spiros C., New York, N. Y. Combination steam chamber. 1,679,253; July 31.
Markel Electric Products, Inc. (See Yokel, Frank, assignor.)
Mariatt, George E., Pasadena, Calif. Typographical machine. 1,679,317; July 31.
Mariatt, George E., Pasadena, Calif. Typographical assembling and distributing machine. 1,679,318; July 31.
Marmion, Louis G. (See Sohn, F., Marmion, and Gibian.)
Marschalek, Alexander, East Rutherford, assignor to Becton, Dickinson & Co., Rutherford, N. J. Plunger clip for syringes. 1,678,991; July 31.
Marshall, Horace M., Vicksburg, Miss. Sheet piling. 1,679,319; July 31.
Marshall, John R., McKean, Pa. Insulator. 1,678,992; July 31.
Marshall, John R., McKean, Pa. Hook. 1,678,993; July 31.
Martin, Dorr R., Detroit, Mich. Automatic cut-off device for fuel-oil burners. 1,679,163; July 31.
Marx, W., & Co. (See Scholz, Richard, assignor.)
Mason, George E. (See McLeod, R. S., Mason, and Stansfield.)
Mason, George N., assignor to Reading Hardware Corporation, Reading, Pa. Door lock. 1,678,994; July 31.
Masson, Charles P., Nancy, France. Support for the pylons of staging and the like. 1,679,254; July 31.
Massuere, Mark H., Hollywood, Calif. Attachment for hydraulic brake systems. 1,678,677; July 31.
Mathieson Alkali Works, The. (See MacMahon, James D., assignor.)
Matthews, Jesse, Absecon, N. J. Speed-warning device. 1,679,320; July 31.
Mattison Machine Works. (See Medholdt, Louis T., assignor.)
Mattison Machine Works. (See Vivarttas, William O., assignor.)
Maxim, William D., and E. A. Mahannah, New York, N. Y., assignors to International Paper Company. Mechanism for the control of electric steam generators. 1,678,995; July 31.
Maxson, Louis A., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. 1,679,133; July 31.
Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Edging machine. 1,679,224; July 31.
McBride, Arthur C., San Diego, Calif. Vehicle steering wheel. 1,679,164; July 31.
McConway & Torley Company, The. (See George, Enoch, jr., assignor.)
McConway & Torley Company, The. (See Regan, William J., assignor.)
McCormick, Harold V., Long Beach, N. Y., assignor, by mesne assignments, to Shur Loc Elevator Safety Corporation, Newark, N. J. Elevator. 1,679,092; July 31.
McCreary, Edward J. (See McCreary, John and E. J.)
McCreary, John and E. J., Cohoes, N. Y. Machine for treating blankets or fabrics. 1,679,255; July 31.
McElroy Robert L. (See Nolen, James G., assignor.)
McEwan, Andrew J., Tulsa, Okla. Combined vacuum and pressure relief valve for receiving and storage tanks. 1,678,700; July 31.
McEwen, Horace C., Iroquois Falls, Ontario, Canada. Belt tightener. 1,678,645; July 31.
McGee, Frank R., Steubenville, Ohio. Valve. 1,678,867; July 31.
McIntosh, James, Norristown, Pa., assignor to Diamond State Fibre Company, Elsmere, Del. Synthetic resin and making same. 1,679,322; July 31.
McKay, Richard F., Brooklyn, N. Y. Pipe cutter. 1,679,321; July 31.
McKeehy, James S., assignor to Dennison Manufacturing Company, Framingham, Mass. Jewelry box or similar article. Des. 75,926; July 31.
McKenzie, John. (See Walton, F. S., and McKenzie.)
McKinnie, Henry, Pittsburgh, Pa. Burner. 1,678,996; July 31.
McKune, Frank B., Hamilton, Ontario, Canada, assignor, by mesne assignments, to Open Hearth Combustion Company, Chicago, Ill. Metallurgical furnace. 1,679,340; July 31.
McLean, Barnet W., Philadelphia, Pa. Chair. Des. 75,927; July 31.
McLeod, Robert S., Manchester, G. E. Mason, Hale, and W. Stansfield, Chorlton-cum-Hardy, England. Electric motor. 1,678,912; July 31.
McMurry, John D., Memphis, Tenn. Combination collar and hame. 1,678,782; July 31.
Meynieu, Jean G., Bordeaux, France. Construction of refrigerator chambers. 1,678,742; July 31.
Medholdt, Louis T., assignor to Mattison Machine Works, Rockford, Ill. Cutter head. 1,678,820; July 31.
Meldrum, Alexander. (See Gabrielson, C., and Meldrum.)
Mellin, George E., New York, N. Y. Idler for belt conveyers. 1,678,997; July 31.
Menefee, Elmer, assignor of one-half to A. H. Stanley, Zanesville, Ohio. Spring-shoe amusement device. 1,679,046; July 31.
Menk, Rudolph W., Joliet, Ill. Air circulator for furnaces. 1,679,047; July 31.
Menzies, William E., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,678,868; July 31.
Mercer, Henry H., Claremont, N. H., assignor to Sullivan Machinery Company. Percussive tool. 1,679,130; July 31.
Mercer, Henry H., Claremont, N. H., assignor to Sullivan Machinery Company. Channeler mechanism. 1,679,136; July 31.
Merrifield, John D., assignor to Reed Manufacturing Company, Erie, Pa. Pipe cutter. 1,679,225; July 31.
Metals Production Company of North America Incorporated. (See Moulden, J. C., and Taplin, assignors.)
Meyer, Kurt H. and H. Schütte, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Tanning hides. 1,678,998; July 31.
Mifsud, Jose L. (See Schauman, K. O., Yancey, and Mifsud.)
Mikesh, Martin A. (See Blumberg, H., and Mikesh.)
Milkes, Leah G., Chicago, Ill. Overshoe or similar article. Des. 75,928; July 31.
Miller, Gordon, New York, assignor to Philip Florin, Woodmere, N. Y. Portable savings bank. 1,678,646; July 31.
Miller, Ranse W., Dublin, Ga. Detachable choke piece. 1,679,048; July 31.
Miller, Stuart P., and J. B. Hill, Philadelphia, Pa., assignors to The Barrett Company. Polymerization and purification of hydrocarbons. 1,679,093; July 31.
Miller, William S., Rochester, N. Y. Ventilator. 1,678,743; July 31.
Milwaukee Corrugating Company. (See Jones, Edmund H., assignor.)
Milwaukee Paper Box Company. (See Carlson, Walter C., assignor.)
Miner, W. H., Inc. (See O'Connor, John F., assignor.)
Minieh, Verne E., Scarsdale, assignor to The American Foundry Equipment Company, New York, N. Y. Sand cutting, screening, and piling machine. 1,678,702; July 31.
Mitro, John R., Kincaid, Ill. Air compressor. 1,679,226; July 31.
Moesta, Marvin W., assignor to Murray Body Corporation, Detroit, Mich. Vehicle body construction. 1,679,094; July 31.
Montan- und Industrialwerke vormals Joh. Dav. Starck. (See Szücs, Josef, assignor.)
Moore, Charles A., Edina, Minn. Refrigerating and air-circulating system. 1,678,678; July 31.
Moore, Wallace F., Meriden, assignor to The American Hardware Corporation, New Britain, Conn. Door closer. 1,678,701; July 31.
Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Method and apparatus for mining coal. 1,678,821; July 31.
Morgan, Olive E., executrix. (See Morgan, Edmund C.)

Morrison, Montford, Chicago, Ill. Static dissipator. 1,678,869; July 31.
Morrison, William M., Tacoma, Wash., assignor to American Smelting and Refining Company, New York, N. Y. Filtering device. 1,678,704; July 31.
Morrow, Clarence H., assignor to The Hotstream Heater Company, Cleveland, Ohio. Thermostatic valve. 1,679,165; July 31.
Mortlock, Clarence E., Wilmington, Del. Window-cleaning apparatus. 1,679,323; July 31.
Moser, Arthur, Northampton, Pa. Hydraulic brake-operating means. 1,678,949; July 31.
Moulden, John C., and B. Taplin, London, England, assignors to Metals Production Company of North America Incorporated, New York, N. Y. Heat treatment and concentration of copper ores. 1,679,337; July 31.
Mouromtseff, Ilia E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vacuum-tube device. 1,678,870; July 31.
Mueller, Adolph, trustee. (See Mueller, Philip, assignor.)
Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Bath and shower combination. 1,678,703; July 13.
Müller, Carl, Mannheim, W. Frankenburger, Ludwigshafen-on-the-Rhine, and F. Grassner, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Purifying organic liquid. 1,679,256; July 31.
Müller, Jakob. (See Staudinger, H., Tobler, Stocker, Müller, and Bucher.)
Muller, William F., assignor to The International Postal Supply Company of New York, Brooklyn, N. Y. Printing mechanism. 1,678,705; July 31.
Murdock, Walter S., Houston, Tex. Rotary toothbrush. 1,679,166; July 31.
Murray Body Corporation. (See Moesta, Marvin W., assignor.)
Murray, Henry H., Riverton, N. J., assignor to Victor Talking Machine Company. Motor mounting. 1,678,999; July 31.
Murray, Thomas E., Brooklyn, N. Y. Valve bonnet and the like. 1,679,324; July 31.
Nagel-Chase Mfg. Co., The. (See Schultze, Edward, assignor.)
Nasmith, John W., Heaton Mersey, Manchester, England. Combing machine. 1,678,822; July 31.
National Aniline & Chemical Company. (See Faber, Henry B., assignor.)
National Aniline & Chemical Company. (See Rogers, Donald G., assignor.)
National Automatic Tool Company, The. (See Galloway, R. M., and Burton, assignors.)
National Lead Company. (See Hallett, Robert L., assignor.)
National Malleable and Steel Castings Company. (See Hoaglind, Albert J., assignor.)
National Pneumatic Company. (See Forman, Paris R., assignor.)
National Pump and Compressor Company. (See Wilson, Edward, assignor.)
Neebe, Lawrence L., Woodbury, N. J. Throttle valve. 1,679,257; July 31.
Nefczesauskas, Joseph S., Cleveland, Ohio. Door-handling mechanism. 1,679,227; July 31.
Neilson, Albert H., Tulsa, Okla. Swivel rope socket. 1,678,706; July 31.
Nelson, Carl G., deceased, Pittsburgh, Pa.; H. C. Nelson, executrix. Trousers hanger. 1,678,679; July 31.
Nelson, Hulda C., executrix. (See Nelson, Carl G.)
Nelson, Ike J., et al. (See Rodgers, Ralph S., assignor.)
Nelson, Sven T., Chicago, Ill., assignor to Sullivan Machinery Company. Cutting tool. 1,679,049; July 31.
Nelson, Sven T., Oak Park, Ill., assignor to Sullivan Machinery Company. Heat-exchange device. 1,679,134; July 31.
Neu, Eugene C., Ridgefield, assignor to The Schwarzenbach-Huber Company, Union City, N. J. Thread cleaner. 1,679,268; July 31.
Newman, Almyr L., Warwick, R. I. Clasp for bracelets. 1,678,707; July 31.
Newman, Hugo, New York, N. Y. Supporting device. 1,678,950; July 31.
Newman, I., & Sons, Inc. (See Kispert, Joseph J., assignor.)
Newman, Lewis, Cleveland, Ohio. Spring suspension for motor vehicles. 1,679,050; July 31.
New Nap System, Inc. (See Flynn, Mortimer F., assignor.)
New York Brick Handling Corporation. (See Fuller, Claud E., assignor.)
Nicholson, John L., assignor to Locomotive Firebox Company, Chicago, Ill. Thermic siphon for locomotives. 1,679,051; July 31.
Nicolai, Niccola, Chicago, Ill. Window structure. 1,679,260; July 31.
Nilsson, Freeman, Troy, N. Y. Brush construction. 1,678,950; July 31.
Nolan, Thaddeus A., Cincinnati, Ohio. Sign. 1,679,167; July 31.
Nolen, James G., New York, N. Y., assignor to R. L. McElroy, Charlottesville, Va. Method and apparatus for testing signaling systems. 1,679,228; July 31.
North Bros. M'f'g. Co. (See Fegley, T. J., and Leopold, assignors.)
North, Clayton O., Tallmadge Township, Summit County, assignor to The Rubber Service Laboratories Co., Akron, Ohio. Rubber softening and compounding ingredient. 1,679,000; July 31.
Norviel, Harry E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Electric switch. 1,678,951; July 31.
Norwood, Joseph C., San Francisco, Calif. Multigraph type. 1,679,261; July 31.
Oakley, Erastus G., Southport, assignor to Bridgeport Brass Company, Bridgeport, Conn. Waste connection. 1,678,783; July 31.
O'Brien, James F., Seattle, Wash. Adjustable stilt. 1,679,168; July 31.
O'Brien, James F., Seattle, Wash. Toy vehicle. 1,679,169; July 31.
O'Brien James F., Seattle, Wash. Velocipede. 1,679,170; July 31.
O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner Inc. Center bearing. 1,678,871; July 31.
Officer, Charles B., Winnetka, Ill., assignor to Sullivan Machinery Company. Mining machine. 1,679,127; July 31.
Ohno, Wilhelm Seebach, Zurich, Switzerland. Tonguing and grooving apparatus. 1,678,784; July 31.
Oil Well Supply Company. (See Gallman, Charles E., assignor.)
Okel, Harry A., Pleasanton, W. Va., assignor to The Ferdinand Strauss Corporation, New York, N. Y. Mechanical clown toy. 1,679,262; July 31.
Olsen, Julius C., Racine, assignor to Western Metal Specialty Co., Milwaukee, Wis. Making pipe elbows. 1,678,744; July 31.
Open Hearth Combustion Company. (See McKune, Frank B., assignor.)
Ordway, Donald P. (See Sherman, H. B., and Ordway.)
O'Rourke, Daniel J., Chicago, Ill., assignor to Sullivan Machinery Company. Forging machine. 1,679,126; July 31.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Feeding mechanism. 1,691,138; July 31.
Overman Cushion Tire Company. (See Manly, Charles M., assignor.)
Owen, Frederick C., Fayetteville, N. C. Transformer for electric-arc cutting, repairing, and welding apparatus. 1,679,263; July 31.
Page, George E., assignor, by mesne assignments, to P. S. Paulson, Rochester, N. Y. Apparatus for baking food products. 1,679,052; July 31.
Parapar, Justo. (See de la Cuesta, Francisco and M. M., Parapar, and Fals.)
Parker, Leslie O., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Ignition-timer distributor. 1,678,913; July 31.
Parker, Robert C., assignor of 40/100 to W. D. Cram, La Porte, Ind. Transmission gearing. 1,679,264; July 31.
Parrott, D. R. (See Thrower, Marion R., assignor.)
Pathe Phonograph & Radio Corporation. (See Wilmann, E. A., and Lewis, assignors.)
Pattinson, William, Derby, England. Door. 1,678,952; July 31.
Patton, George, Bicknell, Ind. Magazine hammer. 1,678,680; July 31.
Paulson, Paul S. (See Page, George E., assignor.)
Payne, Alice B. (See Smith, George, assignor.)
Pedle Company, The. (See Saurer, Paul R., assignor.)
Penta, Patrick W., Medford, assignor to Wilson Manufacturing Company, Boston, Mass. Key case. 1,679,001; July 31.
Peoples Trust and Savings Bank of Chicago, The, trustee. (See Enid, John R., assignor.)
Perkins, Nathan W., East Orange, and E. J. Ens, assignors to Ellis Adding Typewriter Company, Newark, N. J. Adding and subtracting accumulator. 1,679,265; July 31.
Permutit Company, The. (See Cawley, George, assignor.)
Pfaffenbarger, Hans, Nuremberg, Germany. Toy vehicle. 1,678,785; July 31.
Philipp, Otto, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Piston cooling. 1,678,957; July 31.
Phonograph Company, The. (See Seabolt, Frank J., assignor.)
Pickard, Greenleaf W., Newton Center, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Closed turned coil or loop aerial. 1,679,095; July 31.
Pickell, Thetus D., assignor to A. V. Victorius & Company, New York, N. Y. Cleaning attachment for circular-knitting machines. 1,679,171; July 31.
Pickens, Glen S., et al. (See Shope, David F., assignor.)
Pieters, Ray G., Chicago, Ill., assignor of one-half to A. N. Terry, Minneapolis, Minn. Steam applicator for wall-paper-removing apparatus. 1,679,172; July 31.
Pilling, Norman B., Elizabeth, and J. G. Schoener, Bayonne, N. J., assignors to The International Nickel Company, New York, N. Y. Welding electrodes. 1,679,002; July 31.
Pilling, Norman B., Elizabeth, and J. G. Schoener, Bayonne, N. J., assignors to The International Nickel Company, Inc., New York, N. Y. Welding rod. 1,679,003; July 31.

Pinkel, Albert F., and M. J. Brunner; said Brunner assignor of his entire right to G. P. Berner, Buffalo, N. Y. Apparatus for storing and cutting block material. 1,679,004; July 31.

Place, Blon C., assignor of one-half to G. E. Gagnier, Detroit, Mich. Fastener. 1,679,106; July 31.

Pneumatic Scale Corporation, Ltd. (See Butler, James A., assignor.)

Pomeroy, S. H., Company. (See Kohut, Michael, assignor.)

Poser, Max, assignor to Bausch & Lomb Optical Co., Rochester, N. Y. Ophthalmoscope. 1,678,681; July 31.

Potter, Ralph K., New York, N. Y., assignor to American Telephone and Telegraph Company. Method and apparatus for producing musical sounds. 1,678,872; July 31.

Pourfillet, Georges, Leonia, and E. Giovannoni, Fort Lee, N. J., assignors to Universal Pictures Corporation, New York, N. Y. Film-treating apparatus. 1,679,096; July 31.

Pracny, John E., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Roll feed for metal-heading machines. 1,678,647; July 31.

Prosperity Company Inc., The. (See Braun, Philip N., assignor.)

Prosperity Company Inc., The. (See Hallowell, Louis S., assignor.)

Punke, John J., assignor to Hupp Motor Car Corporation, Detroit, Mich. Door-window-regulator handle. Des. 75,929; July 31.

Pym, Arthur F., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Upper-shaping machine. 1,678,873; July 31.

Pyzel, Daniel, Oakland, assignor to Simplex Refining Company, San Francisco, Calif. Circulating dephlegmator. 1,678,823; July 31.

Quaker Silver Company. (See Jennings, James W., assignor.)

Rachlin, Max, New York, N. Y. Gutter hanger. 1,678,874; July 31.

Radio Corporation of America. (See Brown, Vincent H., assignor.)

Rand, James H., jr., Tonawanda, assignor, by mesne assignments, to Remington Rand, Inc., New York, N. Y. Index device. 1,679,005; July 31.

Rastetter, William C., Fort Wayne, Ind. Folding chair. 1,679,173; July 31.

Räth, Curt. (See Binz, A., and Räth.)

Rauen, Peter F., Omaha, Nebr. Milk-can cover. 1,678,953; July 31.

Rauh, Herbert S., New York, N. Y. Legging. 1,678,954; July 31.

Rawlings Manufacturing Company. (See Scudder, Mason, assignor.)

Raynor, John S., Philadelphia, Pa. Clip for fastening metal laths. 1,679,006; July 31.

Reading Hardware Corporation. (See Mason, George N., assignor.)

Reagan, George D., Oklahoma City, Okla. Mortar distributor. 1,679,007; July 31.

Record Cement-Industrie G. m. b. H. (See Tetens, Oskar, assignor.)

Reed Manufacturing Company. (See Merrifield, John D., assignor.)

Regan, William J., Wilkinsburg, assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupler-release rigging. 1,678,786; July 31.

Reller, Edwin L., and V. R. A. Stroh, St. Louis, Mo., assignors, by mesne assignments, to Remington Rand Inc., New York N. Y. Account-finding machine. 1,679,008; July 31.

Remick, Walter L., Philadelphia, Pa. Leaching apparatus. 1,678,787; July 31.

Remick, Walter L., New York, N. Y. Process of and apparatus for the treatment of solid-bearing liquids. 1,678,788; July 31.

Remington Arms Company. (See Tillmanns, Carl W., assignor.)

Remington Rand Inc. (See Rand, James H., jr., assignor.)

Remington Rand Inc. (See Reller, E. L., and Stroh, assignors.)

Renault, Anita M., Chicago, Ill. Face mask. 1,678,649; July 31.

Replogle, Harry H., Upper Montclair, N. J., assignor of one-half to J. Young, Caldwell, N. J. Edible-dye composition. 1,678,648; July 31.

Republic Brass & Mfg. Co. (See Slining, Henry W., assignor.)

Rice, Louis W., assignor to Bernard Rice's Sons, Inc., New York, N. Y. Box or similar article. Des. 75,930; July 31.

Rice, William G., et al. (See Sweet, Andrew T., assignor.)

Rice's, Bernard, Sons, Inc. (See Rice, Louis W., assignor.)

Richards, Edwin H. and F. A., Pomona, Calif. Body-punch resistance developer. 1,679,174; July 31.

Richards, Frank A. (See Richards, Edwin H. and F. A.)

Richardson, Henry, Chicago, Ill. Corner lock for bedsteads. 1,678,708; July 31.

Richardson, Myron H., and A. D. Antoine, assignors to Advance Machine Company, Chicago, Ill. Vending machine. 1,678,650; July 31.

Richardson, Rodney G., Chicago, Ill. Speed governor. 1,678,914; July 31.

Riddle, George W., Chillicothe, Mo. Hose clamp. 1,678,915; July 31.

Ridler, Edward L., St. Paul, Minn. Floor and ceiling plate. Re17,056; July 31.

Rieger, Clara, Reutlingen, Germany. Combined walking stick and tripod. 1,679,267; July 31.

Rigney, Tom A., Laurel, Mont. Shock absorber. 1,679,268; July 31.

Riordan, John M., East Cleveland, assignor to The Cleveland Hardware Company, Cleveland, Ohio. Profiling attachment for machine tools. 1,678,651; July 31.

Rioseco, Pedro, New York, N. Y. Locking safety pin. 1,679,229; July 31.

Ritschard, Victor, Riverton, N. J., assignor to Keystone Watch Case Corporation, Philadelphia, Pa. Watchcase. Des. 75,931; July 31.

Robie, Frederick C., assignor to The Eaton Axle & Spring Company, Cleveland, Ohio. Bumper. 1,678,916; July 31.

Rockenbauer, Otto, Westville, N. J. Tampering-indicating device for gas meters. 1,678,955; July 31.

Rodgers, Ralph S., assignor of one-fourth to J. E. Harmon and one-fourth to I. J. Nelson, Pittsburgh, Pa. Sectional abrasive reamer. 1,679,269; July 31.

Rogers, Donald G., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Purification of indanthrene. 1,679,230; July 31.

Rogers, Simeon L. and George H., Company. (See Hall, Edwin W., assignor.)

Rohn, Wilhelm, Hanau-on-the-Main, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Electric bright-annealing furnace. 1,678,875; July 31.

Rohn, Wilhelm, Hanau-on-the-Main, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Electric bright-annealing furnace for continuously bright annealing. 1,678,876; July 31.

Rolka, Ignatz, Gallitzin, Pa. Antiskid device for automobiles. 1,679,270; July 31.

Rostek, Vincent R., Philadelphia, Pa. Brooder for chickens. 1,679,009; July 31.

Rothenberg, Harry, West Norwood, N. J., and O. C. Britsch, Woodhaven, assignors to H. Hyman, Brooklyn, N. Y. Lamp socket. 1,679,338; July 31.

Roush, Clarence P., Spokane, Wash. Folding machine. 1,678,917; July 31.

Rubber and Celluloid Products Company. (See Albright, Andrew, jr., assignor.)

Rubber Service Laboratories Co., The. (See North, Clayton O., assignor.)

Ruben Rectifier Corporation of Delaware. (See Ruben, Samuel, assignor.)

Ruben, Samuel, New York, N. Y., assignor to Ruben Rectifier Corporation of Delaware. Electric-current rectifier. 1,678,824; July 31.

Ruben, Samuel, New York, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J. Electric-current rectifier. 1,678,825; July 31.

Ruben, Samuel, New York, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J. Electric-current rectifier. 1,678,826; July 31.

Rumney, Fred A., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-inserting machine. 1,678,877; July 31.

Sabin, Ernest E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work locating and punching apparatus. 1,678,789; July 31.

Saiesse, Joseph T., Ottawa, Ontario, Canada. Awning-roller automatic stop. 1,678,790; July 31.

Sanctuary, William C., and W. A. Jones, Amherst, Mass. Brooder. 1,679,271; July 31.

San Diego Consolidated Gas and Electric Company et al. (See Goldkamp, Otto B., assignor.)

Sandin, Maurits J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. 1,678,878; July 31.

Sands Manufacturing Company, The. (See Thomas, M. W., and Hamilton, assignors.)

Saranac Automatic Machine Corporation. (See Craig, Edward, assignor.)

Sauer, Joseph. (See Stark, N. I., and Sauer.)

Saurer, Paul R., Floral Park, N. Y., assignor to The Peelle Company, Brooklyn, N. Y. Fireproof elevator door. 1,678,652; July 31.

Savage Arms Corporation. (See Dunham, George W., assignor.)

Schaer, Charles, Langenthal, Switzerland, assignors to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Internal-combustion engine. 1,678,956; July 31.

Schauman, Karl O., S. R. Yancey, and J. L. Mifsud, assignors to Sure-Guard Corporation, New York, N. Y. Spring control. 1,679,181; July 31.

Schellenger, Newton C., assignor to Chicago Telephone Supply Co., Elkhart, Ind. Terminal. 1,678,745; July 31.

Schellenger, Newton C., assignor to Chicago Telephone Supply Co., Elkhart, Ind. Jack. 1,678,746; July 31.

Schillinger, Christian, Scranton, Pa. Boiler furnace. 1,678,827; July 31.

Schleicher, Frank J., St. Louis, Mo. Box. 1,678,958; July 31.

Schmidt, Edwin X., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Apparatus for determining and also indicating the total heating value of flowing combustible fluid. 1,678,918; July 31.

Schneider, Franklin, and E. L. Connell, assignors to The Van Dorn Electric Tool Company, Cleveland, Ohio. Chuck. 1,679,175; July 31.

Schneider, Philipp, St. Louis, Mo. Punch. 1,679,176; July 31.

Schoener, John G. (See Pilling, N. B., and Schoener.)

Scholz, Richard, Berlin, assignor to the firm: W. Marx & Co., Halle-on-the-Saale, Germany. Dough-kneading machine for the production of dough portions ready for baking. 1,678,747; July 31.

Schram, Lester J., Chicago, Ill. Collapsible radiator cover. 1,678,791; July 31.

Schrans, Karl, Elberfeld, and C. Lutter, Barmen-Langenfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. 1-alkoxymethyl-3,7-dimethylxanthines. 1,679,053; July 31.

Schröter, Fritz, assignor to Gesellschaft für drahtlose Telegraphie m. b. H., Berlin, Germany. System for reducing static disturbances. 1,678,653; July 31.

Schryver, Washington I., Prophetstown, Ill. Signal lamp for vehicles. Des. 75,932; July 31.

Schultz, Charles, North Milwaukee, Wis. Windshield wiper. 1,679,097; July 31.

Schultz, Edward, assignor to The Nagel-Chase Mfg. Co., Chicago, Ill. Vapor burner. 1,678,828; July 31.

Schultz, Frederick A., Hasbrouck Heights, N. J. Heel. 1,679,272; July 31.

Schumacher, John, Los Angeles, Calif. Edge-protected board. 1,678,959. July 31.

Schürmann, Walter, Dusseldorf, Germany. Sectional or link shaft. 1,678,709; July 31.

Schütte, Hermann. (See Meyer, K. H., and Schütte.)

Schwannecke, Frederick A., New Rochelle, N. Y. Container. 1,678,960; July 31.

Schwartz, Frederick, assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y. Combined radiotable and loud-speaker casing. Des. 75,933; July 31.

Schwartz, Henry. (See Schwartz, Saul, assignor.)

Schwartz, Saul, assignor to H. Schwartz, Chicago, Ill. Container. 1,679,273; July 31.

Schwarzenbach-Huber Company, The. (See Neu, Eugene C., assignor.)

Scott, Glenn A., and J. M. Cochran, Ventura, Calif. Packer slip socket. 1,678,829; July 31.

Scott, Rumsey W., Montclair, N. J., assignor to American Cable Company, Inc. Attachment for wire rope. 1,678,961; July 31.

Scudder, Mason, assignor to Rawlings Manufacturing Company, St. Louis, Mo. Casing for footballs, basket balls, and the like. 1,678,830; July 31.

Seabolt, Frank J., Schenectady, N. Y., assignor to The Phonograph Company. Automatic phonograph. 1,679,054; July 31.

Seaholm, Martin A., Chicago, Ill. Pump and motor. 1,678,831; July 31.

Seaman, David S., Providence, R. I. Method of and apparatus for spinning yarn. 1,678,919; July 31.

Seeburg, Justus P. (See Tenow, Olof A. A., assignor.)

Seidel, Walter, Leverkusen, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Crystallization apparatus. 1,679,055; July 31.

Selah, Howard A., Homewood, Pa., assignor to Westinghouse Electric and Manufacturing Company. Fitting for tubular switchboards. 1,678,879; July 31.

Sell-Best Novelty Candy Co. Inc. (See Freedman, William M., assignor.)

Selvig, John N., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-spooling mechanism. 1,678,710; July 31.

Settle, Douglas, San Diego, Calif. Key container. 1,679,274; July 31.

Seymour, William, Paterson, N. J. Mixing device. 1,679,177; July 31.

Shahpar, Ahmad N., Highland Park, Mich. Differential driving arrangement. 1,679,098; July 31.

Shaw, Wesley J., Haverhill, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for turning wood heels. 1,678,792; July 31.

Shears, Sumner S. (See Wilson, E. R., and Shears.)

Shechan, William M., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Locomotive mud ring. 1,678,880; July 31.

Shelby Salesbook Company, The. (See Giller, Charles W., assignor.)

Sheldon, Waldo, Greenwich, Conn. Well-drilling apparatus. 1,678,881; July 31.

Shelton, Harry J., University City, Mo. Grinder. 1,679,182; July 31.

Sheppard, Samuel E., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic light-sensitive material and making the same. 1,678,832; July 31.

Sherman, Howard B., and D. P. Ordway, assignors to American Stamping Co., Battle Creek, Mich. Combination holder for razor blades and paper. 1,679,231; July 31.

Shiflett, Samuel B., Del Ray, Alexandria, Va. Bedroom lamp stand and circuit-controlling mechanism therefor. 1,678,920; July 31.

Shillman, Nathan H., Baltimore, Md. Tape casing. 1,679,178; July 31.

Shipman, Lewis H., Boston, Mass. Solar-heat drier. 1,678,711; July 31.

Shlick, Leo, Montreal, Quebec, Canada. Beating engine. 1,679,056; July 31.

Shlick, Leo, Boston, Mass. Beating engine. 1,679,057; July 31.

Shlick, Leo, Boston, Mass. Beating engine. 1,679,058; July 31.

Shlick, Leo, Boston, Mass. Beating engine. 1,679,059; July 31.

Shoemaker, John T., Flint, Mich., assignor to Flint Automatic Heater Company. Curling-iron heater. 1,679,275; July 31.

Shope, David F., Portland, Oreg., assignor of one-half to G. S. Pickens, Fort Sheridan, Ill., and one-half to B. S. Snyder, Duluth, Minn. Building blocks. 1,678,882; July 31.

Shur Loc Elevator Safety Corporation. (See McCormick, Harold V., assignor.)

Shure, Julius, Chingford, England. Fountain-pen and pencil clip. 1,679,232; July 31.

Sidon, Ignatz, Astoria, N. Y. Book carrier. 1,679,183; July 31.

Siebert, Selmar R., et al. (See Goldkamp, Otto B., assignor.)

Siefken, George R., New York, N. Y. Ventilating device. 1,678,654; July 31.

Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Rohn, Wilhelm, assignor.)

Simmons, John J., San Jose, Calif. Curtain stretcher. 1,678,921; July 31.

Simplex Equipment Company. (See Creveling, John L., assignor.)

Simplex Refining Company. (See Pyzel, Daniel, assignor.)

Singer, Frederick M., Racine, Wis. Golf-bag support. 1,678,922; July 31.

Sipp, Karl, Mannheim, assignor, by mesne assignments, to H. Lanz Aktiengesellschaft, Mannheim, Baden, Germany. Production of iron castings. 1,678,655; July 31.

Sisson, Edmund B., Pasco, Wash. Low-level signal. 1,679,060; July 31.

Skene, Andrew A. (See Gilson, R. M., and Skene.)

Slack & Parr Limited. (See Bryan, William E., assignor.)

Slagel, Franklin G., assignor to Fedders Manufacturing Company Inc., Buffalo, N. Y. Cooling unit for refrigerators. 1,679,010; July 31.

Slining, Henry W., assignor to Republic Brass & Mfg. Co., Los Angeles, Calif. Plumbing fixture. 1,679,276; July 31.

Small, Joseph E. (See Macdonald, L. S., and Small.)

Smedley, Troy D., Waterloo, Iowa. Plant marker. 1,679,061; July 31.

Smith, A. O., Corporation. (See Andren, Birger T., assignor.)

Smith, A. O., Corporation. (See Blumberg, H., and Mikesh, assignors.)

Smith, A. O., Corporation. (See Smith, Charles S., assignor.)

Smith, A. O., Corporation. (See Yeomans, Lucien I., assignor.)

Smith, Charles S., assignor to A. O. Smith Corporation, Milwaukee, Wis. Production of integral side bars and spring hangers by electric welding. 1,678,928; July 31.

Smith, George, Mullen, Nebr., assignor to A. B. Payne. Dishwasher. 1,679,062; July 31.

Smith, John W., assignor to Budd Wheel Company, Philadelphia, Pa. Brake mechanism. 1,678,682; July 31.

Smith, Leander D., Los Angeles, Calif. Pipe-seat-cutting machine. 1,678,712; July 31.

Smith, Leon R., Englewood, Colo. Ventilator for closed cars. 1,678,748; July 31.

Smith, Louis E., assignor to International Milling Company, Minneapolis, Minn. Method of and apparatus for treating wheat. 1,679,099; July 31.

Smith, Thomas W., Irvington, N. J. Coiling machine. 1,678,749; July 31.

Smythe, Edwin H., Evanston, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustic device. 1,678,833; July 31.

Snavely, Clarence S., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,678,683; July 31.

Snell, Harry S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Molding compound. 1,678,713; July 31.

Snyder, Birdie S., et al. (See Shope, David F., assignor.)

Société Industrielle des Procedes W. A. Loth. (See Loth, William A., assignor.)

Society of Chemical Industry in Basle. (See Gams, A., and Widmer, assignors.)

Society of Chemical Industry in Basle. (See Staudinger, H., Tobler, Stocker, Müller, and Bucher., assignors.)

Soderlund, Carl, Belmont, assignor to Hood Rubber Company, Watertown, Mass. Boot-tree or last. 1,679,330; July 31.

Sohn, Frank, Chicago, L. G. Marmion, Villa Park, and E. H. Gibian, Chicago, Ill., assignors to The Vitrolite Company. Soda fountain. Des. 75,934; July 31.

Sommers, Herman J. (See Armstrong, Arthur N., assignor.)

Soots, Burl. (See Van Brimer, G., Magrath, Klancher, and Soots.)

Spengler, Edwin, Pontoise, France. Machine for slotting the heads of screws and the like. 1,679,063; July 31.
Sperry, Elmer A., Brooklyn, N. Y. Preventing racing of ships' engines. 1,678,714; July 31.
Standard Oil Development Company. (See Zalkowsky, Wladimir M., assignor.)
Stanley, Allen H. (See Menefee, Elmer, assignor.)
Stansfield, William. (See McLeod, R. S., Mason, and Stansfield.)
Stant, Kyle E., Connersville, Ind. Radiator cap. Des. 75,935; July 31.
Star Chandelier Co. (See Boehringer, John A., assignor.)
Star Service Hanger Co. (See Coney, J. D., and Garlius, assignors.)
Stark, Nathan L., and J. Sauer, Philadelphia, Pa. Scouring device. 1,678,962; July 31.
Starkey, William C., assignor to L. G. S. Devices Corporation, Indianapolis, Ind. Rebound damper. 1,679,179; July 31.
Staudinger, Hermann, Zurich, R. Tobler, and R. Stocker, Basel, J. Müller, Munchenstein, near Basel, and A. Bucher, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Indigoid dyestuff. 1,679,277; July 31.
Stein, Barnet L., Glencoe, and F. Kaplan, Evanston, Ill. Scenic setting for store display. Des. 75,936; July 31.
Steiner, Ludwig, Berlin, and V. Gutmann, Nuremberg, Germany, assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Totally-inclosed electric machine. 1,678,883; July 31.
Stephenson, Robert J., Chicago, Ill. Roof flashing. 1,678,715; July 31.
Stephenson, Samuel E., Atlanta, Ga. Sampling apparatus. 1,679,064; July 31.
Sterk, John P., Dollar Bay, Mich. Manufacturing jewelry. 1,679,180; July 31.
Sternthal, Felix, Chicago, Ill. Silverware container. 1,679,101; July 31.
Stevenson, Henry J., assignor to Davis & Furber Machine Co., North Andover, Mass. Fillet drum and stand. 1,679,065; July 31.
Stevenson, Robert R., assignor to Electrical Development & Machine Company, Philadelphia, Pa. Disconnecting switch. 1,679,184; July 31.
Stocker, Robert. (See Staudinger, H., Tobler, Stocker, Müller, and Bucher.)
Stone, Walter R. (See Losey, J. B., and Stone.)
Strauss, Ferdinand, Corporation, The. (See Okel, Harry A., assignor.)
Strauss, Leo, Far Rockaway, N. Y. Attachment for ophthalmic mountings. 1,679,233; July 31.
Strindberg, Richard, assignor to The Timken Roller Bearing Company, Canton, Ohio. Undercutting attachment for screw machines. 1,678,924; July 31.
Stroh, Victor R. A. (See Reller, E. L., and Stroh.)
Strong, Robert J. (See Leeper, J. A., and Strong.)
Stump, Frank, and A. A. Johnston, Morgantown, W. Va. Station indicator. 1,679,066; July 31.
Sturgis, Frederick C., Newark, N. J. Rotary felting machine. 1,679,100; July 31.
Sullivan Machinery Company. (See Gartin, Elmer G., assignor.)
Sullivan Machinery Company. (See Graham, James G., assignor.)
Sullivan Machinery Company. (See Halleck, Frank A., assignor.)
Sullivan Machinery Company. (See Holdsworth, Fred D., assignor.)
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
Sullivan Machinery Company. (See Maxson, Louis A., assignor.)
Sullivan Machinery Company. (See Mercer, Henry H., assignor.)
Sullivan Machinery Company. (See Nelson, Sven T., assignor.)
Sullivan Machinery Company. (See Officer, Charles B., assignor.)
Sullivan Machinery Company. (See O'Rourke, Daniel J., assignor.)
Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Sullivan Machinery Company. (See Wineman, Wade H., assignor.)
Sullivan Machinery Company. (See Wyman, Charles W., assignor.)
Superheater Company, The. (See Griffin, Joseph F., assignor.)
Superheater Company, The. (See Magis, Auguste A. G., assignor.)
Sure-Guard Corporation. (See Schauman, K. O., Yancey, and Mifsud, assignors.)
Sussman, Maxwell H., Kew Gardens, N. Y., assignor to The Elyria Iron and Steel Company, Cleveland, Ohio. Mechanism for removing burrs from tubes. 1,678,963; July 31.
Suter, Jacob, West New York, N. J. Window construction. 1,679,278; July 31.
Svanoe, Hans, Niagara Falls, assignor to The Ammonia Corporation, New York, N. Y. Temperature control in the synthetic production of ammonia and the like. 1,678,964; July 31.
Swan, Donald, Grosse Ile, Mich. Golf club. 1,678,750; July 31.
Swanberg, Julius, assignor to Swanberg Manufacturing Company, Chicago, Ill. Pencil. 1,678,656; July 31.
Swanberg Mfg. Co. (See Johnson, Charles J., assignor.)
Swanberg Manufacturing Company. (See Swanberg, Julius, assignor.)
Swartz, Ira T., assignor, by mesne assignments, to I. T. Swartz, trustee, Indianapolis, Ind. Charge-forming device. 1,679,279; July 31.
Swartz, Ira T., trustee. (See Swartz, Ira T., assignor.)
Sweet, Andrew T., assignor of one-fourth to W. G. Rice, and one fourth to H. Gundlach, Houghton, Mich., and one-tenth to P. B. Woodworth, Chicago, Ill. Metallurgical separator. 1,678,884; July 31.
Sweet, Burton W., assignor to The Van Dorn Electric Tool Company, Cleveland, Ohio. Screw driver. 1,679,185; July 31.
Switzer, Henry W., Hamilton, Ontario, Canada, assignor to W. H. Helmbach, Snyder, N. Y. Wrench. 1,678,793; July 31.
Syntron Company. (See Fox, Harold E., assignor.)
Szücs, Josef, Vienna, Austria, assignor to Montan- und Industrialwerke vormals Joh. Dav. Starck, Prague, Czechoslovakia. Producing citric acid by means of fermentation. 1,679,186; July 31.
Tackaberry, Robert D., Lewiston, Me. Guider. 1,678,925; July 31.
Talley, Gus E., assignor of one-half to W. A. Bennett, Phoenix, Ariz. Cotton gin. 1,678,794; July 31.
Taplin, Bruce. (See Moulden, J. C., and Taplin.)
Taylor, Paul H., Wakefield, Mass. Piano. 1,679,187; July 31.
Tennhardt, Elsa, New York, N. Y., assignor to E. & J. Bass, Inc. Frame for trays or the like. Des. 75,937; July 31.
Tennhardt, Elsa, New York, N. Y., assignor to E. & J. Bass, Inc. Frame for trays or the like. Des. 75,938; July 31.
Tennhardt, Elsa, New York, N. Y., assignor to E. & J. Bass, Inc. Dish or article of analogous nature. Des. 75,939; July 31.
Tenow, Olof A. A., Chicago, Ill., assignor of one-half to J. P. Seeburg. Thread-cutting tap. 1,679,234; July 31.
Terry, Albert N. (See Pieters, Ray G., assignor.)
Tetens, Oskar, Oerlinghausen-Lippe, assignor to the firm Record Cement-Industrie G. m. b. H., Frankfort-on-the-Main, Germany. Distilling oil shale and providing raw material suitable for the manufacture of hydraulic cement. 1,678,751; July 31.
Texas Company, The. (See Hadaway, William S., jr., assignor.)
Thomas, Horace T., Lansing, Mich. Side guard for motor vehicles. 1,678,657; July 31.
Thomas, Irvin G., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Thermostatically-controlled heating unit. 1,678,885; July 31.
Thomas, Ivor D., Palmyra, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Door-extractor-operating mechanism. 1,679,188; July 31.
Thomas, Miley W., and P. H. Hamilton, assignors to The Sands Manufacturing Company, Cleveland, Ohio. Control mechanism. 1,678,658; July 31.
Thomas, Minifred D., Chicago, Ill. Bed. 1,678,795; July 31.
Thompson, Fuller W., Arcadia, Calif. Ventilated garment. 1,679,102; July 31.
Thompson, Harry E., assignor to Universal Cooler Corporation, Detroit, Mich. Valve construction. 1,679,235; July 31.
Thompson, Herbert S., Peekskill, N. Y. Apparatus for the recovery of solvents from coated fabrics. 1,678,886; July 31.
Thomson, William S., assignor to The Tobrin Tool Company, Plantsville, Conn. Electrically-driven circular saw. 1,679,103; July 31.
Thorne, William L., New York, N. Y. Hosiery. 1,678,716; July 31.
Thrower, Marion R., assignor to D. R. Parrott, Tuckerman, Ark. Changeable sign. 1,678,684; July 31.
Tilden, Galen, Ames, Iowa. Perpetual calendar. 1,678,834; July 31.
Tillmanns, Carl W., Bridgeport, Conn., assignor to Remington Arms Company, Inc. Knife. Des. 75,940; July 31.
Timken Roller Bearing Company, The. (See Stringberg, Richard, assignor.)
Tinker, Herbert W. (See Hansen, F. D., and Tinker.)
Tobacco By-Products and Chemical Corporation. (See Cox, Edwin, assignor.)
Tobler, Richard. (See Staudinger, H., Tobler, Stocker, Müller, and Bucher.)
Tobrin Tool Company, The. (See Thomson, William S., assignor.)
Toncray, Millard H. (See Fekete, S. I., and Toncray.)
Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone signal system. 1,678,685; July 31.
Towns, Eugene S., Pharr, Tex. Cotton regulator. 1,679,280; July 31.
Trautman, Frank J., Fort Wayne, Ind. Beverage pump. 1,679,104; July 31.
Trumpler, William E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,678,887; July 31.

Trumpler, William E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,678,888; July 31.
Tryco Products, Inc. (See Holmes, Frederick M., assignor.)
Tully, George L., and S. Lacasse, assignors to American Optical Company, Southbridge, Mass. Goggles. 1,679,105; July 31.
Tyler, W. S., Company, The. (See Helman, August E., assignor.)
Union Switch & Signal Company, The. (See Beall, Charles R., assignor.)
Union Switch & Signal Company, The. (See Gilson, R. M., and Skene, assignors.)
Union Switch & Signal Company, The. (See Snavely, Clarence S., assignor.)
Union Switch & Signal Company, The. (See Zierdt, Conrad H., assignor.)
Unique Lamp & Casting Company. (See Larsen, Alfred E., assignor.)
United Filters Corporation. (See Genter, Albert L., assignor.)
United Shoe Machinery Corporation. (See Fausse, Joseph, assignor.)
United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)
United Shoe Machinery Corporation. (See Glass, Perley R., assignor.)
United Shoe Machinery Corporation. (See Pym, Arthur F., assignor.)
United Shoe Machinery Corporation. (See Rumney, Fred A., assignor.)
United Shoe Machinery Corporation. (See Sabin, Ernest E., assignor.)
United Shoe Machinery Corporation. (See Shaw Wesley J., assignor.)
Universal Cooler Corporation. (See Thompson, Harry E., assignor.)
Universal Oil Products Company. (See Egloff, Gustav, assignor.)
Universal Oil Products Company. (See Huff, Lyman C., assignor.)
Universal Pictures Corporation. (See Pourfillet, G., and Giovannoni, assignors.)
Useful Products Company. (See Kingman, Russell B., assignor.)
Van Ackerson, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,678,803; July 31.
Van Brimer, George, H. A. Magrath, J. Klancher, and B. Soots, Pueblo, Colo. Safety reverse ratchet brake. 1,679,281; July 31.
Van Bronk, Otto, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Berlin, Germany. Frequency multiplier. 1,678,965; July 31.
Van Dorn Electric Tool Company, The. (See Connell, Edwin L., assignor.)
Van Dorn Electric Tool Company, The. (See Schneider, F., and Connell, assignors.)
Van Dorn Electric Tool Company, The. (See Sweet, Burton W., assignor.)
Van Gelderen, Frederik M., Enschede, Netherlands. Insulating cap for the joints of electrical conductors. 1,678,752; July 31.
Vaughan, Victor G., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermostatic material. 1,678,889; July 31.
Vicars, Thomas G. (See Wilson, J. L., and Vicars.)
Victor Talking Machine Company. (See Murray, Henry H., assignor.)
Victorius, A. V., & Company. (See Pickell, Thetus D., assignor.)
Viet, Paul, Billancourt, France. Automatic starting device for internal-combustion engines. 1,678,753; July 31.
Vitrolite Company, The. (See Sohn, F., Marmion, and Gilbian, assignors.)
Vivarttas, William O., assignor to Mattison Machine Works, Rockford, Ill. Chip breaker for molding machines and the like. 1,678,835; July 31.
Voight, George F., Oakland, Calif., assignor to Economy Products Corporation. Wall construction. 1,679,282; July 31.
Voit, W. J., Rubber Co. (See Voit, William J., assignor.)
Voit, William J., assignor to W. J. Voit Rubber Co., Los Angeles, Calif. Valve construction for inflatable articles. Re17,057; July 31.
Wadell, Albert H., Newark, N. J. Micrometer attachment for adjusting tools. 1,679,189; July 31.
Walker, William, Sawtelle, Calif. Combination cigarette holder and pipe. 1,678,754; July 31.
Wall, Katherine, Omaha, Nebr. Marcelling and permanent-wave irons. 1,678,890; July 31.
Wallace, Benjamin F., Brooklyn, N. Y. Waterproof heat insulation and making same. 1,678,659; July 31.
Wallenthin, Walfrid. (See Eksergian, E., and Wallenthin.)
Walsh, Arthur E., Chicago, Ill. Hair waver. 1,678,891; July 31.
Walton, Frederick S., and J. McKenzie, Smithers, British Columbia, Canada. Cattle guard. 1,678,926; July 31.
Waterbury Tool Company, The. (See Fowler, Harry P., assignor.)
Weatherhead, Albert J. jr., Cleveland, Ohio. Drain cock or valve. 1,678,927. July 31.
Weber, Hermann, Spiez, Switzerland. Rotary compressor. 1,678,660; July 31.
Weinstein, Alfred, Hamburg, Germany. Sound-producing device. 1,679,106; July 31.
Wellman-Seaver-Morgan Company, The. (See Thomas, Ivor D., assignor.)
Wells, Louie F., and O. C. Whiting, Bryant, Okla. Valve for oil pumps. 1,679,288; July 31.
Wessborg, Eric S., Saginaw, Mich. Child's wagon. 1,678,836; July 31.
Westbrook, Robert G., Birmingham, Ala. Waste trap. 1,679,190; July 31.
Westbrook, Robert G., Birmingham, Ala. Reversible waste trap. 1,679,191; July 31.
Western Electric Company. (See Knaus, Peter J., assignor.)
Western Electric Company. (See Selvig, John N., assignor.)
Western Electric Company. (See Smythe, Edwin H., assignor.)
Western Electric Company. (See Snell, Harry S., assignor.)
Western Metal Specialty Co. (See Olsen, Julius C., assignor.)
Western Union Telegraph Company, The. (See Drake, Herbert W., assignor.)
Western Wheeled Scraper Company. (See Benbow, James D., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Leeper, J. A., and Strong, assignors.)
Westinghouse Air Brake Company, The. (See Widmyer, Robert G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Aalborg, Christian, assignor.)
Westinghouse Electric & Manufacturing Company. See Aiken, Joseph E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Allen, Robert C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Arnold, Edwin E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Coates, W. A., and Davies, assignor.)
Westinghouse Electric & Manufacturing Company. (See Coates, W. A., Gittins, and Davies, assignors.)
Westinghouse Electric & Manufacturing Company. (See Ehrenfeld, Ralph, assignor.)
Westinghouse Electric & Manufacturing Company. (See Forshee, Frank F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hall, A. J., and Mardis, assignors.)
Westinghouse Electric & Manufacturing Company. (See Hodgkins, Charles H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jungk, Herbert G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kalkner, Friedrich, assignor.)
Westinghouse Electric & Manufacturing Company. (See Kendig, Julian H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Menzies, William E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Sandin, Maurits J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Selah, Howard A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Steiner, L., and Gutmann, assignor.)
Westinghouse Electric & Manufacturing Company. (See Thomas, Irvin G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Trumpler, William E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Vaughan, Victor G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lincoln, Rollo B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Monromtseff, Ilia E., assignor.)
Westly, Jens, Cristiansand, assignor to Det Norske Aktieselskab for Elektrokemisk Industri of Norway, Oslo, Norway. Production of self-baking electrodes. 1,679,284; July 31.
Wheeland, Jesse S., San Francisco, Calif. Radio wave switch. 1,679,192; July 31.
Whipple, Arden D., Oakland, Calif. Valve cap. 1,678,837; July 31.
Whisenant, John W., Los Gatos, Calif. Illuminated sign. 1,678,755; July 31.
White, William E., assignor to Kalman Steel Company, Chicago, Ill. Caging. 1,679,193; July 31.
Whitehead, Thomas C., Detroit, Mich. Electrical mercury control for refrigeration pumps. 1,678,661; July 31.
Whiting & Davis Company. (See Whiting, Charles A., assignor.)
Whiting, Charles A., Franklin, Mass., assignor to Whiting & Davis Company. Producing ornamental mesh fabric. 1,678,966; July 31.
Whitling, Oliver C. (See Wells, L. F., and Whitling.)
Widmann, Eugene A., Brooklyn, N. Y., and F. D. Lewis, West Orange, N. J., assignors, by mesne assignments, to Pathe Phonograph & Radio Corporation. Radio receiving apparatus. 1,679,194; July 31.

Widmer, Gustav. (See Gams, A., and Widmer.)
Widmyer, Robert G., Irwin, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Signal device. 1,679,011; July 31.
Wiegand, Edwin L., Dormont Borough, Pa. Heavy-duty electric heater. 1,678,838; July 31.
Wiegand, Henry J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Resistance-control device. 1,678,892; July 31.
Wildman Mfg. Co. (See Howie, Kenneth, assignor.)
Wilkins, William, Oakland, Calif. Sanitary garbage can. 1,678,839; July 31.
Wilkinson, Thomas H., Cranford, N. J., assignor to G. H. Frommann, Concord, N. Y. Display device. 1,678,967; July 31.
Williams, Carl, San Francisco, Calif. Automobile side bumper. 1,679,195; July 31.
Williams, Henry B. (See Ladd, J. W., Williams, and Jordan,)
Williams, Henry B., assignor to John W. Ladd Co., Detroit, Mich. Bottle-washing machine. 1,678,796; July 31.
Williams Oil-O-Matic Heating Corporation. (See Williams, Walter W., assignor.)
Williams, Robert T., Los Angeles, Calif. Variable condenser. 1,678,840; July 31.
Williams, Walter W., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Oil-burner control. 1,679,331; July 31.
Wilson, Charles E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Switch. 1,678,893; July 31.
Wilson, Edgarton R., Peterboro, Ontario, Canada, and S. S. Shears, Brooklyn, N. Y.; said Wilson assignor to said Shears. Vehicle spring. 1,678,662; July 31.
Wilson, Edward, assignor to National Pump and Compressor Company, St. Louis, Mo. Valve. 1,679,012; July 31.
Wilson, James L., and T. G. Vicars, Pineville, Ky. Pipe patch. 1,679,236; July 31.
Wilson, Leon T., East Orange, N. J., assignor to American Telephone and Telegraph Company. Insulator. 1,678,663; July 31.
Wilson Manufacturing Company. (See Penta, Patrick W., assignor.)
Wine-Dip Company, The. (See Fiorita, Anthony R., assignor.)
Wineman, Wade H., Chicago, Ill., assignor to Sullivan Machinery Company, Boston, Mass. Forging machine. 1,679,125; July 31.
Wineman, Wade H., Michigan City, Ind., assignor to Sullivan Machinery Company. Loading mechanism. 1,679,143; July 31.
Wineman, Wade H., Michigan City, Ind., assignor to Sullivan Machinery Company. Furnace. 1,679,145; July 31.
Winning, Robert K., Wauwatosa, assignor to Clum Manufacturing Company, Milwaukee, Wis. Light-dimming switch. 1,678,686; July 31.
Winthrop Chemical Company. (See Schranz, K., and Lutter, assignors.)
Winzer, Charles B., Balham, London, England. Apparatus for carbonization. 1,678,687; July 31.
Wireless Specialty Apparatus Company. (See Pickard, Greenleaf W., assignor.)
Wiseman, Albenus B., Grand Rapids, Mich. Electrical connecter. 1,679,067; July 31.
Woldt, Henry, Brillion, Wis. Hand truck. 1,679,107; July 31.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Paper-roll-changing plant. 1,678,894; July 31.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Throw-out mechanism for printing-press delivery. 1,678,895; July 31.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Knife box for cutting cylinders. 1,678,896; July 31.
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Wood, William D., San Francisco, Calif. Switching device. 1,679,109; July 31.
Wood, William G., assignor to American Woodlite Corporation, San Francisco, Calif. Condensing reflector. 1,679,108; July 31.
Woods, Arthur R. T., London, England. Apparatus for launching, lowering, and raising boats. 1,678,928; July 31.
Woodworth, Philip B., et al. (See Sweet, Andrew T., assignor.)
Wright, Henry F., Huntington, Calif. Gauge and recorder. 1,679,285; July 31.
Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Electrical apparatus. 1,679,142; July 31.
Yale & Towne Manufacturing Company, The. (See Ledin, Charles, assignor.)
Yancey, Stirling R. (See Schauman, K. O., Yancey, and Milsud.)
Yardley, Charles F., Larchmont, N. Y. Rail anchor. 1,678,664; July 31.
Yawman & Erbe Manufacturing Co. (See Duffield, David W., assignor.)
Yeomans, Lucien I., Chicago, Ill., assignor to A. O. Smith Corporation, Milwaukee, Wis. Low-conductivity mold for centrifugal casting machines. 1,678,929; July 31.
Yokel, Frank, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Ceiling-plate electric fixture. Des. 75,941; July 31.
Yokel, Frank, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Fixture for ceiling lights. Des. 75,942; July 31.
Yokel, Frank, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Chandelier. Des. 75,943; July 31.
Yokel, Frank, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Fixture for ceiling lights. Des. 75,944; July 31.
Yokel, Frank, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Chandelier plate. Des. 75,945; July 31.
Yokel, Frank, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Chandelier. Des. 75,946; July 31.
Yokel, Frank, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Wall-bracket electric fixture. Des. 75,947; July 31.
Young, John. (See Replogle, Harry H., assignor.)
Young, Samuel, San Francisco, Calif. Smoking stand. Des. 75,948; July 31.
Young, Samuel, San Francisco, Calif. Smoking stand. Des. 75,949; July 31.
Zaiger, Louis, Lynn, Mass. Windshield wiper. 1,678,688; July 31.
Zaikowsky, Wladimir M., Pasadena, Calif., assignor to Standard Oil Development Company. Internal-combustion engine. 1,679,286; July 31.
Zieburtz, Henry C., Cleveland Heights, Ohio. Clothespin. 1,679,196; July 31.
Zierdt, Conrad H., Penn Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,679,013; July 31.
Zimmerman, William J., Knoxville, Tenn. Cloth pattern. 1,678,756; July 31.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 31ST DAY OF JULY, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Account-finding machine. E. L. Reller and V. R. A. Stroh. 1,679,008; July 31.
Accumulator, Adding and subtracting. N. W. Perkins and E. J. Ens. 1,679,265; July 31.
Acid by means of fermentation, Producing citric. J. Szücs. 1,679,186; July 31.
Acid from sugar solutions, Removing hydrochloric. F. Koch. 1,678,819; July 31.
Acid mixtures in steel drums, Storage and transportation of. J. H. Gravell. 1,678,775; July 31.
Acoustic device. E. H. Smythe. 1,678,833; July 31.
Advertising projecting and display apparatus, Automatic. A. S. Knott. 1,679,311; July 31.
Aeroplane with three centers of propulsion arranged in a triangle. S. F. W. Koolhoven. 1,679,038; July 31.
Agricultural implement. L. L. Keller. 1,678,910; July 31.
Aircraft and the like, Fitting for. C. W. Hall. 1,678,640; July 31.
Aircraft with rotative wings. J. de la Cierva. 1,678,935; July 31.
Air cushion. F. Bronberger. 1,678,972; July 31.
Alkali-metal hydroxides, Making. L. P. Curtin. 1,678,767; July 31.
Amusement device, Spring-shoe. E. Menefee. 1,679,046; July 31.
Anchor, Rail. C. W. Baldridge. 1,679,112; July 31.
Anchor, Rail. C. F. Yardley. 1,678,664; July 31.
Annealing furnace, Electric bright-. W. Rohn. 1,678,875; July 31.
Antenna. H. Csanyi. 1,679,240; July 31.
Antirattler. P. J. Fitzgerald. 1,679,244; July 31.
Antiskid device for automobiles. I. Rolka. 1,679,270; July 31
Antislip device. J. B. Locker. 1,679,314; July 31.
Arch for furnaces, Reflector. J. B. Kinahan. 1,678,816; July 31.
Arsenic compounds, Preparation of. A. Binz and C. Räth. 1,678,760; July 31.
Atomizer. T. A. De Vilbiss. Des. 75,899; July 31.
Atomizer. H. H. Heller. 1,679,305; July 31.
Atomizer support. T. A. De Vilbiss. Des. 75,900; July 31.
Atomizer top. T. A. De Vilbiss. Des. 75,901–2; July 31.
Automobile abstract. C. Bird. 1,678,666; July 31.
Automobiles, Body for. S. I. Fekete and M. H. Toncray. 1,679,025; July 31.
Aviator's manifolding log. C. W. Giller. 1,678,981; July 31.
Axle gauge. R. P. Bernhardt and V. D. Black, jr. 1,678,761; July 31.
Bag and hanger, Garment. M. Luery. 1,679,091; July 31.
Baking device. J. F. Connell. 1,678,690; July 31.
Baking food products, Apparatus for. G. E. Page. 1,679,052; July 31.
Balancing machine. W. E. Trumpler. 1,678,887–8; July 31.
Bandage, Facial. O. L. Arlen. 1,678,970; July 31.
Bank, Portable savings. G. Miller. 1,678,646; July 31.
Bars and spring hangers by electric welding, Production of integral side. C. S. Smith. 1,678,923; July 31.
Basket-making machine. E. Craig. 1,678,848; July 31.
Bath and shower combination. P. Mueller. 1,678,703; July 31.
Bathing pool, Artificial-surf. W. Fisch. 1,679,156; July 31.
Beads and nail spacers, Making corner. C. E. Keas. 1,679,248; July 31.
Bearing, Center. J. F. O'Connor. 1,678,871; July 31.
Bearing, Well-drill pitman. W. H. Fenneman. 1,679,077; July 31.
Beating engine. L. Schlick. 1,679,056–9; July 31.
Bed. M. D. Thomas. 1,678,795; July 31.
Bedstead corner lock. H. Richardson. 1,678,708; July 31.
Belt coupling. P. Fruhof. 1,679,303; July 31.
Belt tightener. H. C. McEwen. 1,678,645; July 31.
Blade holder. H. J. Galsman. 1,679,329; July 31.
Block: *See*—
Crown block.
Block material, Apparatus for storing and cutting. A. F. Pinkel and M. J. Brunner. 1,679,004; July 31.
Board: *See*—
Edge-protected board.
Body formed of separate fibers. H. B. Lindsay. 1,679,251; July 31.
Bobbin skewer. H. D. Colman. 1,678,806; July 31.
Boiler composition and making same. H. Karplus and W. Bachmann. 1,679,037; July 31.
Boiler furnace. C. Schillinger. 1,678,827; July 31.
Bolt: *See*—
Spring bolt. Stay bolt.
Book. J. A. Dykeman. 1,678,673; July 31.
Book carrier. I. Sidon. 1,679,183; July 31.
Boot and shoe. L. S. Macdonald and J. E. Small. 1,678,739; July 31.
Boot-tree or last. W. S. Ashton. 1,679,016; July 31.
Boot-tree or last. C. Soderlund. 1,679,330; July 31.
Bottle. H. A. Dupiech. Des. 75,903; July 31.
Bottle lock, Milk-. D. S. Halloway. 1,679,080; July 31.
Bottle-washing machine. J. W. Ladd, H. B. Williams, and C. C. Jordan. 1,678,781; July 31.
Bottle-washing machine. H. B. Williams. 1,678,796; July 31.
Bottle washing, rinsing, and sterilizing apparatus. J. W. Ladd and C. C. Jordan. 1,678,780; July 31.
Bowling pin. J. R. Carmichael. 1,679,072; July 31.
Box. W. M. Freedman. 1,679,121; July 31.
Box. F. J. Schleicher. 1,678,958; July 31.
Box for cutting cylinders, Knife. H. A. W. Wood. 1,678,896; July 31.
Box or similar article. L. W. Rice. Des. 75,930; July 31.
Box or similar article, Jewelry. J. S. McKeeby. Des. 75,926; July 31.
Bracelet clasp. A. L. Newman. 1,678,707; July 31.
Bracket for drapery pole or rod. G. Madvig. Des. 75,928–5; July 31.
Brake: *See*—
Ratchet brake.
Brake device. A. Domenico. 1,678,692; July 31.
Brake drum and liner. F. D. Hansen and H. W. Tinker. 1,678,777; July 31.
Brake mechanism. J. W. Smith. 1,678,682; July 31.
Brake mechanism. Transmission. N. A. Christensen. 1,679,154; July 31.
Brake-operating means, Hydraulic. A. Moser. 1,678,949; July 31.
Brake supporting and operating mechanism. A. S. Fishel. 1,678,696; July 31.
Brake systems, Attachment for hydraulic. M. H. Massuere. 1,678,677; July 31.
Brazing machine, Electric. A. T. Koehler. 1,679,088; July 31.
Brick Side arch. E. M. Carroll. Re17,052; July 31.
Brooder. W. C. Sanctuary and W. A. Jones. 1,679,271; July 31.
Brooder for chickens. V. R. Rostek. 1679,009; July 31.
Brush, Bottle. B. B. Jackson. 1,678,943; July 31.
Brush construction. F. Nilsson. 1,678,950; July 31.
Brush or similar article, Lather. A. Albright, jr. Des. 75,892; July 31.
Buckle, Slide. F. Hirsh. 1,679,306; July 31.
Building blocks. D. F. Shope. 1,678,882; July 31.
Building construction, Concrete. S. Lake. 1,679,040; July 31.
Bumper. F. C. Robie. 1,678,916; July 31.
Bumper, Automobile side. C. Williams. 1,679,195; July 31.
Bumper tip. R. B. Fageol. 1,678,853; July 31.
Burner: *See*—
Gas burner. Vapor burner.
Hydrocarbon burner.
Burner. C. Fischer. 1,679,300; July 31.
Burner. H. McKinnie. 1,678,996; July 31.
Burner control, Oil-. W. W. Williams. 1,679,331; July 31.
Burrs from tubes, Mechanism for removing. M. H. Sussmann. 1,678,963; July 31.
Bus-body-frame construction. E. J. Hall. 1,678,811; July 31.
Cabinet, Food-preserving. J. H. Johnson. 1,678,730; July 31.
Caging. W. E. White. 1,679,193; July 31.
Calendar, Perpetual. G. Tilden. 1,678,834; July 31.
Camera view finder. A. L. V. C. Debrie. 1,678,902; July 31.
Cameras, Exposure-indicating device for. J. H. Hammond. 1,678,729; July 31.
Can: *See*—
Garbage can.
Candlestick. A. E. Hobson. Des. 75,913; July 31.
Car coupler. E. George, jr. 1,678,774; July 31.

Car, Dump. W. L. Burner and O. E. Kantenwein. 1,678,765; July 31.
Car, Electric. J. B. Allen and E. O. Hamilton. 1,679,068; July 31.
Car ventilator, Closed-. L. R. Smith. 1,678,748; July 31.
Cars, Fluid-pressure-operated mechanism for dump. J. D. Benbow. 1,678,900; July 31.
Carbonization, Apparatus for. C. B. Winzer. 1,678,687; July 31.
Carrier: *See*—
Book carrier. Dispatch carrier.
Case: *See*—
Douche case. Key case.
Casing for footballs, basket balls, and the like. M. Scudder. 1,678,830; July 31.
Casing, Tape. N. H. Shillman. 1,679,178; July 31.
Casting pipe. H. Burchartz. 1,678,633; July 31.
Casting, process of and apparatus for centrifugal. J. Holthaus. 1,678,641; July 31.
Castings and the like, Manufacture of cylindrical. A. J. Hongland. 1,679,217; July 31.
Castings, Production of iron. K. Sipp, Mannheim. 1,678,655; July 31.
Ceiling fixture, Electric. A. E. Larsen. Des. 75920–1; July 31.
Ceiling-plate electric fixture. F. Yokel. Des. 75,941; July 31.
Chain, Cutter. M. P. Holmes. 1,679,135; July 31.
Chair: *See*—
Folding chair. Tilting chair.
Chair. B. W. McLean. Des. 75,927; July 31.
Chamber, Combination steam. S. C. Markatos. 1,679,253; July 31.
Chandelier. F. Yokel. Des. 75,943; July 31.
Chandelier, F. Yokel. Des. 75,946; July 31.
Chandelier or similar article. J. A. Boehringer. Des. 75,896; July 31.
Chandelier plate. F. Yokel. Des. 75,945; July 31.
Channeler mechanism. H. H. Mercer. 1,679,136; July 31.
Charge-forming device. I. T. Swartz. 1,679,279. July 31.
Chemical reactions between gases, or vapors, or gases and vapors, Apparatus for carrying out. H. Harter. 1,678,778; July 31.
Choke piece. Detachable. R. W. Miller. 1,679,048; July 31.
Chuck. T. J. Fegley and G. O. Leopold. 1,679,299; July 31.
Chuck. F. Schneider and E. L. Connell. 1,679,175; July 31.
Circuit-continuing device. H. A. Douglass. 1,679,335; July 31.
Circuit-control mechanism for internal-combustion engines. L. O. French. 1,679,159; July 31.
Circulating device for refrigerator cars, Air-. F. E. Greene. 1,679,124; July 31.
Circulator for furnaces, Air. R. W. Menk. 1,679,047; July 31.
Circulator for stoves, Air. W. G. Hutchison. 1,679,307; July 31.
Clamp: *See*—
Hose clamp. Rod clamp.
Piston clamp.
Clamp for breathing bags. Spring. A. B. Dräger. 1,679115; July 31.
Clasp: *See*—
Bracelet clasp.
Cleaner: *See*—
Rotary cleaner. Thread cleaner.
Cleaning apparatus, Window-. C. E. Mortlock. 1,679,323; July 31
Cleaning compound, Liquid. Y. Katayama. 1,678,815; July 31.
Cleansing means for rock drills. J. G. Graham. 1,679,131; July 31.
Clip: *See*—
Pen and pencil clip.
Clip for fastening metal laths. J. S. Raynor. 1,679,006; July 31.
Clock mounting, Motor. J. F. Mansfield. 1,678,990; July 31.
Cloth pattern. W. J. Zimmerman. 1,678,756; July 31.
Clothespin. H. C. Zieburtz. 1,679,196; July 31.
Clutch. G. W. Dunham. 1,678,638; July 31.
Coal, Method and apparatus for mining. E. C. Morgan 1,678,821; July 31.
Cock or valve, Drain. A. J. Weatherhead, jr. 1,678,927; July 31.
Coil or loop aerial, Closed tuned. G. W. Pickard. 1,679,095; July 31.
Coiling machine. T. W. Smith. 1,678,749; July 31.
Collar and hame, Combination. J. D. McMurry. 1,678,782; July 31.
Combing machine. J. W. Nasmith. 1,678,822; July 31.
Compressor, Air. J. R. Mitre. 1,679,226; July 31.
Compressor-controlling mechanism. L. A. Maxson. 1,679,133; July 31.
Compressor, Rotary. H. Weber. 1,678,660; July 31.
Computation, Method and apparatus for. W. Koenig, jr. 1,678,674; July 31.
Concentrator. W. A. Huelsdonk. 1,679,035; July 31.
Condenser, Variable. R. T. Williams; 1,678,840; July 31.
Connecter, Circuit. H. A. Douglas. 1,6779,333; July 31.
Container. W. S. Grant. 1,678,726; July 31.
Container. S. Schwartz. 1,679,273; July 31.
Container. F. A. Schwannecke. 1,678,960; July 31.
Container and tray, Combination card. D. W. Duffield. 1,678,671; July 31.
Container for leads. C. J. Johnson. 1,678,642; July 31.
Container, Key. D. Settle. 1,679,274; July 31.
Container, Silverware. F. Sternthal. 1,679,101; July 31.
Control apparatus. A. J. Hall and P. L. Mardis. 1,678,857; July 31.
Control apparatus, hydraulic resistance. L. J. Hull. 1,679,085; July 31.
Control mechanism. M. W. Thomas and P. H. Hamilton. 1,678,658; July 31.
Control system, Remote. E. F. Chandler. 1,678,634; July 31.
Controlling mechanism. O. H. Ludeman. 1,679,044; July 31.
Conveyers, Idler for belt. G. E. Mellin. 1,678,997; July 31.
Cooking of fibrous material, Method and apparatus for continuous. T. L. Dunbar. 1,679,336; July 31.
Cooling device, Milk-. H. J. Foster. 1,679,302; July 31.
Cooling system. F. D. Holdsworth. 1,679,144; July 31.
Cooling system for luternal-combustion engines. H. C. Mallory. 1,678,644; July 31.
Cooling tank. J. O. Carrey. 1,679,292; July 31.
Corner bead. E. H. Jones. 1,678,813; July 31.
Corset. J. J. Kispert. 1,678,818; July 31.
Cotton gin. G. E. Talley. 1,678,794; July 31.
Cotton regulator. E. S. Towns. 1,679,280; July 31.
Counterbalance for oven doors. F. F. Forshee. 1,678,855; July 31.
Coupler-release rigging. W. J. Regan. 1,678,786; July 31.
Coupling: *See*—
Belt coupling.
Cover for toilets. A Little. Des. 75,822; July 31.
Cover, Milk can. P. F. Rauen. 1,678,953; July 31.
Cover, Terminal. R. Ehornfeld. 1,678,852; July 31.
Cradle mounting, Flexible. H. G. Jungk. 1,678,860; July 31.
Crown block. W. S. Evans. 1,679,327; July 31.
Crystallization apparatus. W. Seidel. 1,679,055; July 31.
Cue, Billiard. J. R. Carmichael. 1,679,073; July 31.
Cup: *See*—
Grease cup.
Cupola. A. E. Bailliot. 1,678,899; July 31.
Cushion: *See*—
Air cushion.
Cut-off device for fuel-oil burners, Automatic. D. R. Martin. 1,679,163; July 31.
Cutter: *See*—
Pipe cutter.
Cutter. O. H. Caldwell. 1,679,022; July 31.
Cutter head. L. T. Medholdt. 1,678,820; July 31.
Cutting machine, Cloth. H. Maimin. 1,678,980; July 31.
Cutting machine, Pipe-seat-. L. D. Smith. 1,678,712; July 31.
Cylinder head and packing. B. P. Joyce. 1,678,946; July 31.
Cylinder support, Turbine-. R. C. Allen. 1,678,968; July 31.
Damper, Rebound. W. C. Starkey. 1,679,179; July 31.
Dental bridge. C. S. Kile. 1,678,779; July 31.
Dephlegmator, Circulating. D. Pyzel. 1,678,823; July 31.
Detector: *See*—
Metal detector.
Detector apparatus. A. A. Kent. 1,679,310; July 31.
Developer, Body-punch resistance. E. H. Richards and F. A. Richards. 1,679,174; July 31.
Differential driving arrangement. A. N. Shahpar. 1,679,098; July 31.
Digging machine, Marl-. A. J. Elkins. 1,679,118; July 31.
Disconnecting switch. R. R. Stevenson. 1,679,184; July 31.
Dish or article of analogous nature. E. Tennhardt. Des. 75,939; July 31.
Dish support, Soap-. O. G. Hitchcock. 1,679,032; July 31.
Dishwasher. G. Smith. 1,679,062; July 31.
Dispatch carrier, Pneumatic-. D. J. MacMillan. 1,679,223; July 31.
Dispensing apparatus. C. I. Anderson. 1,678,628; July 31.
Dispensing device. H. A. Birnbaum. 1,679,237; July 31.
Display apparatus, Vegetable and fruit. J. T. Henley. 1,679,031; July 31.
Display device. T. H. Wilkinson. 1,678,967; July 31.
Display device for candy boxes or the like, Picture-. W. C. Carlson. 1,678,722; July 31.
Display stand. A. L. Hansen. 1,679,082; July 31.
Distilling oil shale and providing a raw material suitable for the manufacture of hydraulic cement. O. Tetens. 1,678,751; July 31.
Distributor, Mortar. G. D. Reagan. 1,679,007; July 31.
Door. W. Pattinson. 1,678,952; July 31.
Doorcheck. R. B. Kingman. 1,678,817; July 31.
Door closer. W. F. Moore. 1,678,701; July 31.
Door-extractor-operating mechanism. I. D. Thomas. 1,679,188; July 31.
Door, Fireproof elevator. P. R. Saurer. 1,678,052; July 31.
Door-handling mechanism. J. S. Nefczesauskas. 1,679,227; July 31.

Door lock. G. N. Mason. 1,678,994; July 31.
Door-operating apparatus, Coke-oven-. H. Koppers. 1,678,864; July 31.
Douche case. G. S. Appling. 1,679,146; July 31.
Dough-kneading machine for the production of dough portions ready for baking. R. Scholz. 1,678,747; July 31.
Drier: *See*—
Film drier. Heat drier.
Drill: *See*—
Rock drill.
Drilling apparatus. F. A. Halleck. 1,679,137; July 31.
Drilling apparatus, Well-. W. Sheldon. 1,678,881; July 31.
Drilling machine. C. Gabrielson and A. Meldrum. 1,679,027; July 31.
Drilling mechanism. E. G. Gartin. 1,679,139; July 31.
Drilling mechanism. E. G. Gartin. 1,679,141; July 31.
Drilling mechanism. J. G. Graham. 1,679,140; July 31.
Drum and stand, Fillet. H. J. Stevenson. 1,679,065; July 31.
Drying coal and like fuels. H. Fleissner. 1,679,078; July 31.
Dye composition, Edible-. H. H. Replogle. 1,678,648; July 31.
Dyestuff, Indigold. H. Staudinger, R. Tobler, R. Stocker, J. Müller, and A. Bucher. 1,679,277; July 31.
Edge-protected board. J. Schumacher. 1,678,959; July 31.
Edging machine. A. E. Maynard. 1,679,224; July 31.
Electric heater, Heavy-duty. E. L. Wiegand. 1,678,838; July 31.
Electric machine, Totally-inclosed. L. Steiner and V. Gutmann. 1,678,883; July 31.
Electric motor. R. S. McLeod, G. E. Mason, and W. Stansfield. 1,678,912; July 31.
Electric switch. H. A. Douglas. 1,679,334; July 31.
Electric switch. H. E. Norviel. 1,678,951; July 31.
Electric system. J. L. Creveling. 1,678,808; July 31.
Electrical apparatus. M. Alden. 1,678,717; July 31.
Electrical apparatus. C. W. Wyman. 1,679,142; July 31.
Electrical connecter. A. B. Wiseman. 1,679,067; July 31.
Electrodes, Production of self-baking. J. Westly. 1,679,284; July 31.
Electrodes, Welding. N. B. Pilling and J. G. Schoener. 1,679,002; July 31.
Elevator. H. V. McCormick. 1,679,092; July 31.
Engine: *See*—
Heating engine.
Internal-combustion engine.
Engines, Automatic starting device for internal-combustion. P. Viet. 1,678,753; July 31.
Engines, Preventing racing of ships'. E. A. Sperry. 1,678,714; July 31.
Esters, Making. G. Barsky. 1,678,719; July 31.
Extinguisher, Fire. E. F. Delfoe. 1,679,207; July 31.
Extinguisher, Fire. D. Fasul. 1,679,243; July 31.
Fastener. B. C. Place. 1,679,266; July 31.
Fastener-inserting machine. P. R. Glass. 1,678,904; July 31.
Fastener-inserting machine. F. A. Rumney. 1,678,877; July 31.
Feed for metal-heading machines, Roll. J. E. Pracny. 1,678,647; July 31.
Feeding mechanism. C. F. Osgood. 1,679,138; July 31.
Felting machine, Rotary. F. C. Sturgis. 1,679,100; July 31.
Fender, Furniture. C. D. Dye. 1,679,117; July 31.
Film drier, Photographic-. H. Cassereau. 1,679,239; July 31.
Film-treating apparatus. G. Pourfillet and E. Giovannoni. 1,679,096; July 31.
Filtering device. W. M. Morrison. 1,678,704; July 31.
Flagpole construction. A. E. Lingo. 1,679,313; July 31.
Floor and ceiling plate. E. L. Ridler. Re17,056; July 31.
Flooring, Rubber-composition. J. B. Losey and W. R. Stone. 1,678,948; July 31.
Fluid-pressure motor. E. G. Gartin. 1,679,128; July 31.
Fluid regulator. O. B. Goldkamp. 1,679,215; July 31.
Fluid separator. G. D. Bradshaw. 1,678,844; July 31.
Folder, Changeable rotary. H. F. Bechman. 1,679,289; July 31.
Folding chair. W. C. Rastetter. 1,679,173; July 31.
Folding machine. C. P. Roush. 1,678,917; July 31.
Forging machine. F. A. Halleck. 1,679,129; July 31.
Forging machine. D. J. O'Rourke. 1,679,126; July 31.
Forging machine. W. H. Wineman. 1,679,125; July 31.
Frame for trays or the like. E. Tennhardt. Des. 75,937–8; July 31.
Frequency multiplier. O. von Bronk. 1,678,965; July 31.
Fuel-injection system. L. O. French. 1,679,158; July 31.
Furnace: *See*—
Annealing furnace. Hot-air furnace.
Boiler furnace. Metallurgical furnace.
Furnace. W. H. Wineman. 1,679,145; July 31.
Furnace for continuously bright annealing, Electric bright-annealing. W. Rohn. 1,678,876; July 31.
Furnace hood. N. W. Betzold. 1,679,150; July 31.
Garbage can, Sanitary. W. Wilkins. 1,678,839; July 31.
Garment, Ventilated. F. W. Thompson. 1,679,102; July 31.
Gas burner. S. M. Evans. 1,679,298; July 31.
Gauge: *See*—
Axle gauge. Printing-press gauge.
Gauge and recorder. H. F. Wright. 1,679,285; July 31.
Gear, Draft. J. E. Forsyth. 1,679,301; July 31.
Gear, Electrical switch. W. A. Coates and D. R. Davies. 1,678,845; July 31.
Gear, Electrical switch. W. A. Coates, G. E. Gittins, and D. R. Davies. 1,678,846; July 31.
Gearing, Transmission. R. C. Parker. 1,679,264; July 31.
Generators, Mechanism for the control of electric steam. W. D. Maxim and E. A. Mahannah. 1,678,995; July 31.
Goggles. G. L. Tully and S. Lacasse. 1,679,105; July 31.
Golf-bag support. F. M. Singer. 1,678,922; July 31.
Golf club. C. B. Drevitson. 1,678,637; July 31.
Golf club. D. Swan. 1,678,750; July 31.
Golf register. B. M. Beskow. 1,678,762; July 31.
Golf tee. N. R. Jacobsen. 1,678,944; July 31.
Governor control for internal-combustion engines. C. B. Jahnke. 1,678,908; July 31.
Governor, Speed. R. G. Richardson. 1,678,914; July 31.
Grease cup. M. J. Henry. 1,679,216; July 31.
Grinder. H. J. Shelton. 1,679,182; July 31.
Grinding and mixing apparatus. M. David. 1,679,241; July 31.
Grinding and polishing apparatus. P. J. Knaus. 1,678,732; July 31.
Grinding mill, Rotary-hammer. W. J. Clement. 1,678,723; July 31.
Grooving or facing attachment for fay lathes, Auxiliary. J. E. Lovely. 1,679,043; July 31.
Guard, Cattle. F. S. Walton and J. McKenzie. 1,678,926; July 31.
Guard for motor vehicles, Side. H. T. Thomas. 1,678,657; July 31.
Guider. R. D. Tackaberry. 1,678,925; July 31.
Gutter hanger. M. Rachlin. 1,678,874; July 31.
Hammer, Brick. J. Campbell. 1,679,071; July 31.
Hammer, Magazine. G. Patton. 1,678,680; July 31.
Handle, Door-window-regulator. J. J. Punke. Des. 75,929; July 31.
Handle for pneumatic tools, Cushioning. S. Byers. 1,679,291; July 31.
Hanger: *See*—
Gutter hanger. Trousers hanger.
Hanger and gusset for automobile frames, Spring. B. T. Andren. 1,678,930; July 31.
Headlight, Dirigible. M. S. Kelley. 1,678,911; July 31.
Heat coil. J. S. Baker. 1,678,800; July 31.
Heat drier, Solar-. L. H. Shipman. 1,678,711; July 31.
Heat-exchange device. S. T. Nelson. 1,679,134; July 31.
Heat treatment and concentration of copper ores. J. C. Moulden and B. Taplin. 1,679,337; July 31.
Heater: *See*—
Electric heater. Water heater.
Iron heater.
Heating unit, Thermostatically-controlled. I. G. Thomas. 1,678,885; July 31.
Heating value of flowing combustible fluid, Apparatus for determining and also indicating the total. E. X. Schmidt. 1,678,918; July 31.
Heel. F. A. Schultz. 1,679,272; July 31.
Hinge, Toilet-seat. J. W. Bishop. 1,679,202; July 31.
Hoisting mechanism for dumping trucks. J. and L. Coder. 1,679,075; July 31.
Holder, Advertisement. F. and M. M. de la Cuesta, J. Parapar, and S. Fals. 1,678,691; July 31.
Holder and pipe, Combination cigarette. W. Walker. 1,678,754; July 31.
Holder and ruler, Pad. R. E. Hooper. 1,679,084; July 31.
Holder, Cigarette. E. Eksergian and W. Wallenthin. 1,679,209; July 31.
Holder, Flowerpot. C. Maier. 1,678,988; July 31.
Holder for razor blades and paper, Combination. H. B. Sherman and D. P. Ordway. 1,679,281; July 31.
Holder, Shingle. C. F. Ames, jr. 1,678,804; July 31.
Hollow bodies from fibrous-material pulp, Manufacture of. F. W. Baumgärtner. 1,678,759; July 31.
Honing device, Grandstone. N. M. Baker. 1,679,200; July 31.
Hook. J. R. Marshall. 1,678,993; July 31.
Hose clamp. G. W. Riddle. 1,678,915; July 31.
Hosiery. W. L. Thorne. 1,678,716; July 31.
Hot-air furnace. G. Hatvani. 1,679,247; July 31.
Hydrocarbon burner. G. W. Bowen. 1,679,152; July 31.
Hydro-extractor or centrifugal machine. A. F. Dunsmore. 1,678,938; July 31.
Hydrogen sulphide into sulphur dioxide, Converting. H. Bähr. 1,678,630; July 31.
Hypochlorite composition. J. D. MacMahon. 1,678,987; July 31.
Ignition apparatus. W. A. Chryst. 1,678,934; July 31.
Ignition system. C. B. Jahnke. 1,679,220; July 31.
Ignition timer. F. C. Kroeger. 1,678,947; July 31.
Ignition-timer distributor. L. O. Parker. 1,678,913; July 31.
Indanthrene, Purification of. D. G. Rogers. 1,679,230; July 31.
Index device. J. H. Rand, jr. 1,679,005; July 31.
Indicating and illuminating means for electric ranges, Current-. F. F. Forshee. 1,678,856; July 31.
Indicating device, Depth-. H. W. King. 1,679,222; July 31.
Indicating device for gas meters, Tampering-. O. Rockenbauer. 1,678,955; July 31.

Indicating system, Potential-. H. W. Drake. 1,679,326; July 31.
Indicator: *See*—
Station indicator.
Ingots, Method of and apparatus for casting. J. A. Durfee. 1,678,976; July 31.
Instructing device. M. Centorrino. 1,678,689; July 31.
Insulating cap for the joints of electrical conductors. F. M. van Gelderen. 1,678,752; July 31.
Insulation and making same, Waterproof heat. B. F. Wallace. 1,678,639; July 31.
Insulator. J. R. Marshall. 1,678,992; July 31.
Insulator. L. T. Wilson. 1,678,663; July 31.
Internal-combustion engine. E. T. Adams. 1,678,897; July 31.
Internal-combustion engine. C. Schaer. 1,678,956; July 31.
Internal-combustion engine. W. M. Zalkowsky. 1,679,286; July 31.
Iron heater, Curling-. J. T. Shoemaker. 1,679,275; July 31.
Ironing machine. E. E. Arnold. 1,678,843; July 31.
Jack: *See*—
Lifting jack.
Jack. N. C. Schellenger. 1,678,746; July 31.
Jewelry, Manufacturing. J. P. Sterk. 1,679,180; July 31.
Joint: *See*—
Rail joint. Universal joint.
Jug. A. R. Florita. Des. 75,905; July 31.
Key case. P. W. Penta. 1,679,001; July 31.
Key lock, Changeable-combination. F. W. Johnson 1,679,087; July 31.
Knife. C. W. Tillmanns. Des. 75,940; July 31.
Knitting machines, Cleaning attachment for circular. T. D. Pickell. 1,679,171; July 31.
Knitting machines, Needle-selector mechanism for. K. Howie. 1,678,906; July 31.
Knitting machines, Trick wheel for. K. Howie. 1,678,907; July 31.
Labeling machine, Package-. J. A. Butler. 1,678,805; July 31.
Lamp for vehicles, Signal. W. I. Schryver. Des. 75,932; July 31.
Lamp stand and controlling mechanism therefor, Bedroom. S. B. Shiffett. 1,678,920; July 31.
Last. G. B. Fitz. 1,678,771; July 31.
Latch spindle and lock assembly. S. I. Fekete. 1,679,026; July 31.
Launching, lowering, and raising boats, Apparatus for. A. R. T. Woods. 1,678,928; July 31.
Leaching apparatus. W. L. Remick. 1,678,787; July 31.
Legging. H. S. Rauh. 1,678,954; July 31.
Lens disk, Spiral-mounted. C. F. Jenkins. 1,679,086; July 31.
Level signal, Low-. E. B. Sisson. 1,679,060. July 31.
Lifting jack. A. R. Esmond. 1,679,210; July 31.
Light-dimming switch. R. K. Winning. 1,678,686; July 31.
Lighter, Cigar. H. Esterow. Des. 75,904; July 31.
Lighting fixtures or similar articles, Combined strap and arm for. J. A. Boehringer. Des. 75,897; July 31.
Lights, Fixture for ceiling. F. Yokel. Des. 75,942; July 31.
Lights, Fixture for ceiling. F. Yokel. Des. 75,944; July 31.
Lime, Hydrating. C. P. Berg. 1,679,149; July 31.
Link. J. D. Lemex. 1,679,042; July 31.
Liquids, Process of and apparatus for teratment of solid-bearing. W. L. Remick. 1,678,788; July 31.
Liquids, Purification of. G. C. Lewis. 1,678,676; July 31.
Loading mechanism. W. H. Wineman. 1,679,143; July 31.
Locating and punching apparatus, Work. E. E. Sabin. 1,678,789; July 31.
Lock: *See*—
Bedstead corner lock. Door lock.
Bottle lock. Trunk lock.
Locomotive mud ring. W. M. Sheehan. 1,678,880; July 31.
Locomotive-smoke-box arrangement. J. F. Griffin. 1,678,727; July 31.
Looping and guiding device for rolling mills. R. B. Hancock. 1,679,304. July 31.
Lubrication, Machine. N. M. Baker. 1,679,199; July 31.
Lubricator, N. K. Klauset. 1,678,781; July 31.
Machine for slotting the heads of screws and the like. E. Spengler. 1,679,063; July 31.
Machine for turning wood heels. W. J. Shaw. 1,678,792; July 31.
Machine for use in the manufacture of shoes. J. Fausse. 1,678,854; July 31.
Machines having stop motions, Frictional driving mechanism for. C. E. Jones. 1,678,945; July 31.
Machinery for converting sheet material into receptacles. E. Craig. 1,678,901; July 31.
Magneto-electric machine. A. E. Brown. 1,679,069; July 31.
Marcelling and permanent-wave irons. K. Wall. 1,678,890; July 31.
Marker, Plant. T. D. Smedley. 1,679,061; July 31.
Mask, Face. A. M. Renault. 1,678,649; July 31.
Measuring device. M. Gilbert. 1,679,157; July 31.
Measuring system. High-frequency. H. A. Affel. 1,678,665; July 31.
Meat tenderer. H. S. Johns. 1,678,699; July 31.
Mechanical movement. M. K. Holmes. 1,678,942; July 31.
Metal and the like, Protective coating for. J. B. W. Gardiner. 1,678,980; July 31.
Metal detector, Hidden-. S. Herr. 1,679,339; July 31.
Metal pickling. J. H. Gravell and A. Douty. 1,678,776; July 31.
Metal structure, Portable. J. Bergesen, sr. 1,678,971; July 31.
Metallurgical furnace. F. B. McKune. 1,679,340; July 31.
Metallurgical separator. A. T. Sweet. 1,678,884; July 31.
Meter. C. A. Dawley. 1,679,293; July 31.
Micrometer attachment for adjusting tools. A. H. Wadell. 1,679,189; July 31.
Microphone. J. E. Aiken. 1,678,842; July 31.
Mill: *See*—
Grinding mill.
Mining machine. C. B. Officer. 1,679,127; July 31.
Mixing device. W. Seymour. 1,679,177; July 31.
Mixing machine. V. P. Larson. 1,678,735; July 31.
Moisture-absorbing device for stoppered containing vessels. E. L. Furber. 1,678,939; July 31.
Mold for centrifugal casting machines, Low-conductivity. L. I. Yeomans. 1,678,929; July 31.
Mold for composite articles. F. R. Hornig. 1,678,812; July 31.
Molding compound. H. S. Snell. 1,678,713; July 31.
Molding machines and the like, Chip breaker for. W. O. Vivarttas. 1,678,835; July 31.
Motor: *See*—
Electric motor. Fluid-pressure motor.
Motor for operating doors or the like, Pressure-actuated. P. R. Forman. 1,679,212; July 31.
Motor mounting. H. H. Murray. 1,678,999; July 31.
Musical sounds, Method and apparatus for producing. R. K. Potter. 1,678,872; July 31.
Nicotine solutions. Testing. E. Cox. 1,678,636; July 31.
Nitrogen from crude calcium cyanamide, Recovering combined. G. H. Buchanan and P. W. Grimth. 1,678,721; July 31.
Oils. Treating hydrocarbon. W. S. Hadaway, jr. 1,678,728; July 31.
Oils with doctor solutions, Refining petroleum. R. L. Hallett. 1,678,984; July 31.
1-alkoxymethyl-3,7-dimethylxanthines. K. Schranz and C. Lutter. 1,679,053; July 31.
Ophthalmic mountings, Attachment for. L. Strauss. 1,679,233; July 31.
Ophthalmoscope. M. Poser. 1,678,681; July 31.
Ornamental mesh fabric, Producing. C. A. Whiting. 1,678,966; July 31.
Oven, Coking retort. J. Becker. 1,678,801–2; July 31.
Oven, Coking retort. J. Van Ackeren. 1,678,803; July 31.
Overshoe or similar article. L. G. Milkes. Des. 75,928; July 31.
Package, Scrapple. F. Briggs. 1,678,632; July 31.
Pan: *See*—
Vulcanizing pan.
Paper-making machines, Apparatus for reconditioning felts of. M. F. Flynn. 1,678,978; July 31.
Paper-roll-changing plant. H. A. W. Wood. 1,678,894; July 31.
Parachute. F. W. Denda. 1,679,242; July 31.
Patch, Pipe. J. L. Wilson and T. G. Vicars. 1,679,236; July 31.
Pattern: *See*—
Cloth pattern.
Pen and pencil clip, Fountain-. J. Shure. 1,679,232; July 31.
Pencil. J. Swanberg. 1,678,656; July 31.
Penholder and calendar, Combined. C. Horix. Des. 75,914; July 31.
Permanent waves, Method of and apparatus for forming. E. N. Hall. 1,678,983; July 31.
Petroleum oil, Cracking. G. Egloff. 1,679,208; July 31.
Phonograph, Automatic. F. J. Seabolt. 1,679,054; July 31.
Photographic light-sensitive material and making the same. S. E. Sheppard. 1,678,832; July 31.
Photo-telescopic apparatus, Electrical. P. L. Clark. 1,678,974; July 31.
Piano. P. H. Taylor. 1,679,187; July 31.
Piano, Upright. V. Bessler. 1,679,290; July 31.
Picture holder. W. J. Helmquest. 1,679,083; July 31
Pin: *See*—
Bowling pin. Safety pin.
Pin wheel. J. S. Fridolph and J. B. A. Duchesneau. Des 75,908; July 31.
Pipe: *See*—
Casting pipe.
Pipe couplings by centrifugal casting, Production of. H. Blumberg and M. A. Mikesh. 1,678,931; July 31.
Pipe cutter. R. F. McKay. 1,679,321; July 31.
Pipe cutter. J. D. Merrifield. 1,679,225; July 31.
Pipe elbows, Making. J. C. Olsen. 1,678,744; July 31.
Pipes, Joining. A. A. G. Magis. 1,678,740; July 31.
Piston. G. F. Brent. 1,679,020; July 31.
Piston. L. R. Davis. 1,678,768; July 31.

Piston clamp, Air-brake-. L. H. Dohse. 1,678,937; July 31.
Piston cooling. O. Philipp. 1,678,957; July 31.
Planter, Sugar-cane. W. Kassebeer. 1,678,643; July 31.
Planters, Attachment for check-row. W. J. Barclay. 1,678,758; July 31.
Plastic composition and production thereof. O. A. Cherry and C. F. Chosa. 1,678,635; July 31.
Plate for an electric wall bracket or similar article, Front. J. A. Boehringer. Des. 75,894; July 31.
Plating metals with aluminum. F. Jordan. 1,679,808; July 31.
Plow. M. Mares. 1,678,741; July 31.
Plumbing fixture. H. W. Slining. 1,679,276; July 31.
Poles, Method and apparatus for placing. A. Ehrler. 1,679,297; July 31.
Polymerization and purification of hydrocarbons. S. P. Miller and J. B. Hill. 1,679,093; July 31.
Poultry-scalding means. A. G. Egbert. 1,678,936; July 31.
Power transmission, Effecting. A. H. Asprooth and A. M. Leoal. 1,678,798; July 31.
Power-transmitting device. H. P. Fowler. 1,679,213; July 31.
Preburning preparation of fuels. J. M. W. Kitchen. 1,678,863; July 31.
Press: *See*—
Seal press.
Pressing machine. P. N. Braun. 1,679,019; July 31.
Pressure-relief means. M. J. Goldberg. 1,678,905; July 31.
Preventing disturbances of the state of health due to see-saw and rotary motions, Apparatus for. G. Gaertner. 1,679,245; July 31.
Printing mechanism. W. F. Muller. 1,678,705; July 31.
Printing-plate blank and making. R. C. Isaksen. 1,678,859; July 31.
Printing-press delivery, Throw-out mechanism for. H. A. W. Wood. 1,678,895; July 31.
Printing-press gauge. G. De Pamphilis. 1,678,724; July 31.
Pump. M. J. Finn. 1,678,977; July 31.
Pump and motor. M. A. Seaholm. 1,678,831; July 31.
Pump, Beverage. F. J. Trautman. 1,679,104; July 31.
Pump, Petrol and other measured-quantity delivery. W. E. Bryan. 1,679,021; July 31.
Pump, Pneumatic. C. B. Alyea. 1,679,111; July 31.
Pump, Vacuum. F. D. Holdsworth. 1,679,132; July 31.
Pumping apparatus for handling gases and liquids. I. C. Jennings. 1,678,909; July 31.
Pumps, Electrical mercury control for refrigeration. T. C. Whitehead. 1,678,661; July 31.
Punch. P. Schneider. 1,679,176; July 31.
Purifying organic liquid. C. Müller, W. Frankenburger, and F. Grassner. 1,679,256; July 31.
Rack for ice-cream cabinets, Chemical-can. T. P. Bolger. 1,678,763; July 31.
Radiator attachment. H. H. Crawford. 1,678,670; July 31.
Radiator cap. K. E. Stant. Des. 75,935; July 31.
Radiator cover, Collapsible. L. J. Schram. 1,678,791; July 31.
Radiogoniometry, System of. W. A. Loth. 1,678,737; July 31.
Radio receiving apparatus. E. A. Widmann and F. D. Lewis. 1,679,194; July 31.
Radiotable and loud-speaker casing, Combined. F. Schwartz. Des. 75,933; July 31.
Radio telephone system, Two-way. L. Espenschied, H. A. Affel, and C. N. Anderson. 1,678,672; July 31.
Radiowave switch. J. S. Wheeland. 1,679,192; July 31.
Rail joint. O. Lockard. 1,679,162; July 31.
Ratchet brake, Safety reverse. G. Van Brimer, H. A. Magrath, J. Klancher, and B. Soots. 1,679,281; July 31.
Ratchet wrench. L. M. Gibson. 1,678,903; July 31.
Razor, Safety. E. C. Bunnell. 1,678,933; July 31.
Reamer, Sectional abrasive. R. S. Rodgers. 1,679,269; July 31.
Receptacle. W. H. Fulper. 1,678,810; July 31.
Rectifier, Electric-current. S. Ruben. 1,678,824–6; July 31.
Reflector, Condensing. W. G. Wood. 1,679,108; July 31.
Refrigerating and air-circulating system. C. A. Moore. 1,678,678; July 31.
Refrigeration. F. O. Conill. 1,679,205; July 31.
Refrigerator chambers, Construction of. J. G. Meynieu. 1,678,742; July 31.
Refrigerators, Cooling unit for. F. G. Siegel. 1,679,010; July 31.
Register: *See*—
Golf register.
Regulator: *See*—
Cotton regulator. Fluid regulator.
Regulator system. W. E. Menzies. 1,678,868; July 31.
Relay, Thermal. C. Aalborg. 1,678,841; July 31.
Reminder. F. Allegrezza. 1,679,198; July 31.
Reporting device, Football-game-. N. E. Helland, C. C. Harrison, and O. A. Bierbrauer. 1,679,160; July 31.
Resin and making same, Synthetic. G. E. Landt. 1,679,312; July 31.
Resin and making same, Synthetic. J. McIntosh. 1,679,322; July 31.
Resin by polymerization, Producing. W. R. Gerges. 1,679,214; July 31.
Resins, Recovery of insoluble urea formaldehyde. A. Gams and G. Widmer. 1,679,246; July 31.
Resistance-control device. H. J. Wiegand. 1,678,892; July 31.
Ring: *See*—
Locomotive mud ring.
Rock drill. J. Köhlen. 1,678,985; July 31.
Rod: *See*—
Welding rod.
Rod clamp, Polished-. C. E. Gallman. 1,679,028; July 31.
Roller automatic stop, Awning-. J. T. Salesse. 1,678,790; July 31.
Roof flashing. R. J. Stephenson. 1,678,715; July 31.
Root-filling substance. E. G. Hedström. 1,678,940; July 31.
Rope, Attachment for wire. R. W. Scott. 1,678,961; July 31.
Rotary cleanser. W. L. Deming. 1,678,850; July 31.
Routing machine. J. E. Kalgren. 1,678,814; July 31.
Rubber softening and compounding ingredient. C. O. North. 1,679,000; July 31.
Safety pin, Locking. P. Rioseco. 1,679,229; July 31.
Sampling apparatus. S. E. Stephenson. 1,679,064; July 31.
Sand cutting, screening, and piling machine. V. E. Minich. 1,678,702; July 31.
Saw, Electrically-driven circular. W. S. Thomson. 1,679,103; July 31.
Scenic setting for store display. B. L. Stein and F. Kaplan. Des. 75,936; July 31.
Scooter, side car, and wagon, Combined. R. J. Mandery. 1,679,045; July 31.
Scouring device. N. I. Stark and J. Sauer. 1,678,962; July 31.
Scraper for rotary filters. A. L. Genter. 1,678,639; July 31.
Scraper, Sand-green. J. W. Ferguson. 1,678,695; July 31.
Screens, Making woven-wire. A. E. Helman. 1,678,941; July 31.
Screw driver. B. W. Sweet. 1,679,185; July 31.
Screw machines, Undercutting attachment for. R. Strindberg. 1,678,924; July 31.
Seal for relatively moving parts of ovens, Gas-tight. F. Bartling. 1,679,018; July 31.
Seal press. C. C. Gibson. 1,679,029; July 31.
Sealing means. A. E. Low. 1,678,315; July 31.
Searchlight. F. Kalkner. 1,678,861; July 31.
Seat back. H. A. Boles. 1,679,238; July 31.
Separator: *See*—
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Separator and heater, Fluid. F. E. Lammert. 1,679,090; July 31.
Service table. J. M. Athans. 1,679,017; July 31.
Setting structure for lumber kilns and the like. J. M. Aarons. 1,679,197; July 31.
Shaft, Sectional or link. W. Schürmann. 1,678,709; July 31.
Shaker or similar article, Salt and pepper. J. W. Jennings. Des. 75,915–19; July 31.
Shaker, Salt and pepper. A. J. Flauder. Des. 75,906–7; July 31.
Sharpener, Knife. G. A. Graves. 1,678,698; July 31.
Sheet piling. H. M. Marshall. 1,679,319; July 31.
Shirt for men's wear. A. R. Benz and F. M. Ashley. 1,678,629; July 31.
Shock absorber. T. A. Rigney. 1,679,268; July 31.
Sign. F. P. Gstalder. 1,679,079; July 31.
Sign. T. A. Nolan. 1,679,167; July 31.
Sign and letter therefor, Illuminated. C. B. Ehnborn. 1,679,296; July 31.
Sign, Changeable. M. R. Thrower. 1,678,684; July 31.
Sign, Illuminated. J. W. Whisenant. 1,678,755; July 31.
Sign, Weatherproof. G. H. Allen. 1,679,288; July 31.
Signal: *See*—
Level signal.
Signal device. R. G. Widmyer. 1,679,011; July 31.
Signal-monitoring system. V. H. Brown. 1,678,973; July 31.
Signal-valve device. C. C. Farmer. 1,679,024; July 31.
Sighting attachment for guns. R. W. Kelm. 1,679,221; July 31.
Siphon for locomotives, Thermic. J. L. Nicholson. 1,679,051; July 31.
Sizing fibers. H. L. Becher. 1,678,720; July 31.
Smoke consumer and soot blower. W. D. Boyce. 1,678,764; July 31.
Smoked joint meats, Preparing. A. W. Cushman. 1,678,809; July 31.
Smoking stand. S. Young. Des. 75,948–9; July 31.
Socket and cover, Combined electric-light. G. Ainsworth. 1,679,110; July 31.
Socket for accumulators, Cable. E. Kromann. 1,678,733; July 31.
Socket, Lamp. H. Rothenberg and O. C. Britsch. 1,679,338; July 31.
Socket, Packer slip. G. A. Scott and J. M. Cochran. 1,678,829; July 31.
Socket, Swivel rope. A. H. Neilson. 1,678,706; July 31.
Soda fountain. F. Sohn, L. G. Marmion, and E. H. Gibian. Des. 75,934; July 31.
Solvents from coated fabrics, Apparatus for the recovery of. H. S. Thompson. 1,678,886; July 31.

Sound-producing device. A. Weinstein. 1,679,106; July 31.
Speedometer. G. W. Blackburn. 1,679,203; July 31.
Spinning yarn, Method of and apparatus for. D. S. Seaman. 1,678,919; July 31.
Spooling mechanism, Material-. J. N. Selvig. 1,678,710; July 31.
Spoon or similar article. E. W. Hall. Des. 75,911; July 31.
Spring: *See*—
Vehicle spring.
Spring bolt. J. C. Griffin. 1,678,982; July 31.
Spring control. K. O. Schauman, S. R. Yancey, and J. L. Milsud. 1,679,181; July 31.
Spring-pad construction. L. S. Hallowell. 1,679,030; July 31.
Spring wheel. J. R. Eaid. 1,678,693; July 31.
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Static dissipator. M. Morrison. 1,678,869; July 31.
Static disturbances, System for reducing. F. Schröter. 1,678,653; July 31.
Station indicator. F. Stump and A. A. Johnston. 1,679,066; July 31.
Stay bolt, Flexible. J. Kindervater. 1,679,161; July 31.
Steam applicator for wall-paper-removing apparatus. R. G. Pieters. 1,679,172; July 31.
Steam trap. H. W. Justus. 1,679,309; July 31.
Steering wheel, Vehicle. A. C. McBride. 1,679,164; July 31.
Stencil sheet. S. Horii. 1,679,034; July 31.
Stick and tripod, Combined walking. C. Rieger. 1,679,267; July 31.
Stilt, Adjustable. J. F. O'Brien. 1,679,168; July 31.
Stone mounting, Universal. N. M. Baker and G. L. Ljunglof. 1,679,201; July 31.
Stove, Oil. W. K. Kise. Re17,053; July 31.
Strainer. F. M. Holmes. 1,679,033; July 31.
Strainer, Milk. H. S. Fries. 1,679,122; July 31.
Stretcher, Curtain. J. J. Simmons. 1,678,921; July 31.
Striker attachment for animal traps. A. N. Armstrong. 1,678,898; July 31.
Stripping machines, Cut-off mechanism for. E. M. and F. M. Brackett. 1,678,667; July 31.
Structural element. S. Macomber. 1,678,738; July 31.
Suction apparatus. G. Bühler. 1,678,932; July 31.
Sulphonation. H. B. Faber. 1,679,211; July 31.
Support for the pylons of staging and the like. C. P. Mason. 1,679,254; July 31.
Supporting device. H. Newman. 1,679,259; July 31.
Suspension for motor vehicles, Spring. L. Newman. 1,679,050; July 31.
Switch: *See*—
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Electric switch.
Switch. C. E. Wilson. 1,678,893; July 31.
Switchboards, Fitting for tubular. H. A. Selah. 1,678,879; July 31.
Switch for motor control, Snap. R. M. Galloway and P. C. Burton. 1,678,725; July 31.
Switch mechanism. C. H. Hodgkins. 1,678,858; July 31.
Switch mechanism. J. H. Kendig. 1,678,862; July 31.
Switch mechanism. M. J. Sandin. 1,678,878; July 31.
Switching device. W. D. Wood. 1,679,109; July 31.
Syringes, Plunger clip for. A. Marschalek. 1,678,991; July 31.
Table: *See*—
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Table. E. Hauser. Des. 75,912; July 31.
Tank: *See*—
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Tank. C. P. Eisenbauer. 1,678,770; July 31.
Tanning hides. K. H. Meyer and H. Schütte. 1,678,998; July 31.
Tap, Thread-cutting. O. A. A. Tenow. 1,679,234; July 31.
Telephone plug. H. H. Frost. 1,678,772; July 31.
Telephone signal system. J. F. Toomey. 1,678,685; July 31.
Temperature control in the synthetic production of ammonia and the like. H. Svanoe. 1,678,964; July 31.
Temperature-control system. R. B. Lincoln. 1,678,865; July 31.
Template for guiding routers. R. L. Carter. 1,679,074; July 31.
Terminal. N. C. Schellenger. 1,678,745; July 31.
Testing equipment for automatic telephone systems. F. T. Madsen. 1,679,316; July 31.
Testing signaling systems, Method and apparatus for. J. C. Nolen. 1,679,228; July 31.
Thermostatic device. J. L. Brown. 1,679,070; July 31.
Thermostatic material. V. G. Vaughan. 1,678,889; July 31.
Thread cleaner. E. C. Nen. 1,679,258; July 31.
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Ticket strip, Marking-. F. W. Laencher. 1,678,675; July 31.
Tilting chair. D. R. Collier. 1,678,668; July 31.
Tire mounting for traction wheels. E. E. Einfeldt. 1,679,023; July 31.
Tire, Vehicle. J. Barker. 1,678,631; July 31.
Tires, Making vehicle. C. M. Manly. 1,678,866; July 31.
Tonguing and grooving apparatus. W. Ohno. 1,678,784; July 31.
Tool. G. Kucera. 1,679,039; July 31.
Tool, Combination. R. D. Cooper. 1,678,807; July 31.
Tool, Cutting. S. T. Nelson. 1,679,049; July 31.
Tool, Electric percussive. H. E. Fox. 1,678,979; July 31.
Tool, Fluid-operated. W. Kühn. 1,678,734; July 31.
Tool, Percussive. H. H. Mercer. 1,679,130; July 31.
Tool, Power hand. E. L. Connell. 1,679,155; July 31.
Tools, Profiling attachment for machine. J. M. Riordan. 1,678,651; July 31.
Toothbrush, Rotary. W. S. Murdock. 1,679,166; July 31.
Torch, Soldering. J. J. Lawless. 1,679,249; July 31.
Toy automobile. S. Gordon. 75,910; July 31.
Toy, Mechanical clown. H. A. Okel. 1,679,262; July 31.
Toy, Spark-producing figure wheeled. C. Arnold. 1,678,797; July 31.
Toy vehicle. J. F. O'Brien. 1,679,169; July 31.
Toy vehicle. H. Pfaffenberger. 1,678,785; July 31.
Traffic-controlling apparatus, Railway-. C. R. Beall. 1,679,015; July 31.
Traffic-controlling apparatus, Railway-. R. M. Gilson and A. A. Skene. 1,679,014; July 31.
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Traffic-controlling apparatus, Railway-. C. H. Zierdt. 1,679,013; July 31.
Transformer for electric-arc cutting, repairing, and welding apparatus. F. C. Owen. 1,679,263; July 31.
Transmission. Z. Alexander. 1,679,287; July 31.
Transmission. S. C. Igou. 1,679,036; July 31.
Transmission mechanism for the driving wheels of motor vehicles, Power-. A. Abramson. 1,678,757; July 31.
Trap: *See*—
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Treating apparatus. F. M. Furber. 1,678,773; July 31.
Treating blankets or fabrics, Machine for. J. and E. J McCreary. 1,679,255; July 31.
Treating water, Process of and apparatus for. G. Cawley. 1,678,766; July 31.
Treating wheat, Method of and apparatus for. L. E Smith. 1,679,099; July 31.
Treatment of ores of copper and other metals. F. Dietzsch. 1,679,294; July 31.
Trousers. B. Basskin. 1,679,148; July 31.
Trousers hanger. C. G. Nelson. 1,678,679; July 31.
Truck and vehicle, Convertible hand. N. S. Black. 1,679,325; July 31.
Truck for railroad vehicles. J. G. Blunt. 1,679,151; July 31.
Truck, Hand. H. Weldt. 1,679,107; July 31.
Trunk lock. C. Ledin. 1,678,736; July 31.
Truck, Locomotive. A. W. Bruce. 1,679,153; July 31.
Truck, Locomotive trailing. G. B. Ashworth. 1,679,147; July 31.
Tube: *See*—
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Tube for self-rescue apparatus, Breathing. A. B. Dräger. 1,679,116; July 31.
Type carriers, Method and apparatus for the aligning of. A. A. Egli. 1,678,694; July 31.
Type, Multigraph. J. C. Norwood. 1,679,261; July 31.
Typographical assembling and distributing machine. G. E. Marlatt. 1,679,318; July 31.
Typographical machine. G. E. Marlatt. 1,679,317; July 31.
Undergarment. J. H. Crossingham. 1,679,206; July 31.
Universal joint. E. R. Degener. 1,679,076; July 31.
Upper-shaping machine. A. F. Pym. 1,678,873; July 31.
Upright for an andiron. O. B. Bach. Des. 75,893; July 31.
Urease preparation. O. Lind. 1,679,250; July 31.
Vacuum-tube device. I. E. Mouromtseff. 1,678,870; July 31.
Valve. H. Haneberg. 1,679,081; July 31.
Valve. F. R. McGee. 1,678,867; July 31.
Valve. E. Wilson. 1,679,012; July 31.
Valve bonnet and the like. T. E. Murray. 1,679,324; July 31.
Valve cap. A. D. Whipple. 1,678,837; July 31.
Valve construction. H. E. Thompson. 1,679,235; July 31.
Valve construction for inflatable articles. W. J. Volt. Re17,057; July 31.
Valve, Float. E. L. Delany. 1,678,769; July 31.
Valve for oil pumps. L. F. Wells and O. C. Whitling. 1,679,283; July 31.
Valve for radiators, Air-vent. L. W. Eggleston. 1,678,851; July 31.
Valve for receiving and storing tanks, Combined vacuum and pressure-relief. A. J. McEwan. 1,678,700; July 31.
Valve, Multiorifice. L. C. Huff. 1,679,219; July 31.
Valve, Safety or automatic release. L. C. Huff. 1,679,218; July 31.
Valve, Thermostatic. C. H. Morrow. 1,679,165; July 31.
Valve, Throttle. L. L. Neebe. 1,679,257; July 31.
Vapor burner. E. Schultz. 1,678,828; July 31.
Vehicle body construction. M. W. Moesta. 1,679,094; July 31.
Vehicle spring. E. R. Wilson and S. S. Shears. 1,678,662; July 31.
Vehicle suspension. S. L. C. Coleman. 1,678,847; July 31.
Vehicle wheel. W. N. Booth. 1,679,113; July 31.
Vehicle wheel, Resilient. P. Altuna. 1,678,969; July 31.

Vehicles, Two-motor drive for. A. H. Asprooth and A. M. Leoni. 1,678,799; July 31.
Velocipede. J. F. O'Brien. 1,679,170; July 31.
Vending machine. M. H. Richardson and A. D. Antoine. 1,678,650; July 31.
Ventilating device. G. R. Siefken. 1,678,654; July 31.
Ventilator: *See*—
Car ventilator.
Ventilator. W. S. Miller. 1,678,743; July 31.
Vulcanizing pan. J. Churchward. 1,679,114; July 31.
Wagon, Child's. E. S. Wessborg. 1,678,836; July 31.
Wall-bracket electric fixture. F. Yokel. Des. 75,947; July 31.
Wall bracket or similar article, Electric. J. A. Bochringer. Des. 75,898; July 31.
Wall bracket or similar article, Electric. J. A. Bochringer. Des. 75,985; July 31.
Wall construction. G. F. Voight. 1,679,282; July 31.
Wall for glass tanks, Bridge. A. W. Dodge. 1,679,295; July 31.
Warning device, Speed-. J. Matthews. 1,679,320; July 31.
Washing cooked straw. D. C. Amerine. 1,678,718; July 31.
Washing machine. L. B. Green. 1,679,123; July 31.
Waste connection. E. G. Oakley. 1,678,783; July 31.
Waste trap. R. G. Westbrook. 1,679,190; July 31.
Waste trap, Reversible. R. G. Westbrook. 1,679,191; July 31.
Watchcase. V. Ritschard. Des. 75,931; July 31.
Water heater. O. Fox. 1,679,120; July 31.
Waver, Hair. A. E. Walsh. 1,678,891; July 31.
Wedding ring. A. J. Friedman. Des. 75,909; July 31.
Welding, Electric. J. F. Lawson. 1,678,986; July 31.
Welding machine, Electric. J. A. Leeper and R. J. Strong. 1,679,041; July 31.
Welding rod. N. B. Pilling and J. G. Schoener. 1,679,003; July 31.
Wheel: *See*—
Spring wheel. Vehicle wheel.
Steering wheel.
Wheel. D. R. Collier. 1,678,669; July 31.
Winding apparatus, Yarn-. G. B. Cocker. 1,678,975; July 31.
Window. C. A. Lewis. Re17,054; July 31.
Window construction. J. Suter. 1,679,278; July 31.
Window, Metal. M. Kohut. 1,679,089; July 31.
Window structure. N. Nicolai. 1,679,260; July 31.
Windshield for automobiles. M. A. Lockwood. 1,679,252; July 31.
Wiper, Windshield. C. Schultz. 1,679,097; July 31.
Wiper, Windshield. L. Zaiger. 1,678,688; July 31.
Wireworking machine. J. D. Coney and B. Garlius. 1,679,204; July 31.
Wrench: *See*—
Ratchet wrench.
Wrench. H. W. Switzer. 1,678,793; July 31.
Wringer rolls, Pressure-controlling means for. T. C. Davis. 1,678,849; July 31.
X-ray tube. G. Bucky. 1,679,332; July 31.

CLASSIFICATION OF PATENTS

ISSUED JULY 31, 1928.

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[Decisions of the Court of Appeals of the District of Columbia are indicated by the letter (*), and of the United States District Courts by the letter (d).]

ERRATA.

76,193 (Design), page 817, in the heading, assignment, state of incorporation, for "Connecticut" read *New Jersey*.

1,630,362, page 371, in the heading, assignment, for "two-sevenths to Edward H. Burns" read *five-sevenths to Edward H. Burns*.

1,681,806, page 732, in heading, assignment, name of assignee, for "Albert C. Burrage, jr., Ipswich, Mass." read *Albert C. Burrage, Boston, Mass.*

Patents Nos. 1,679,341 to 1,680,272.

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Issue of August 7, 1928.

Trade-Marks	331—No.	245,016 to No.	245,346, inclusive.
T. M. Renewals	3		
Labels	28—No.	34,391 to No.	34,418, inclusive.
Prints	14—No.	11,135 to No.	11,148, inclusive.
Reissues	7—No.	17,058 to No.	17,064, inclusive.
Designs	46—No.	75,950 to No.	75,995, inclusive.
Patents	932—No.	1,679,341 to No.	1,680,272, inclusive.
Total	1,361		

Patents—Reissues.

[Public No. 501, 70th Congress.]

[S. 2823.]

An Act amending the statutes of the United States with respect to reissue of defective patents.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That section 4916 of the Revised Statutes of the United States be, and the same is hereby, amended to read as follows:

"Sec. 4916. Whenever any patent is wholly or partly inoperative or invalid, by reason of a defective or insufficient specification, or by reason of the patentee claiming as his own invention or discovery more than he had a right to claim as new, if the error has arisen by inadvertence, accident, or mistake, and without any fraudulent or deceptive intention, the commissioner shall, on the surrender of such patent and the payment of the duty required by law, cause a patent for the same invention, and in accordance with the corrected specification, to be reissued to the patentee or to his assigns or legal representatives, for the unexpired part of the term of the original patent. Such surrender shall take effect upon the issue of the reissued patent, but in so far as the claims of the original and reissued patents are identical, such surrender shall not affect any action then pending nor abate any cause of action then existing, and the reissued patent to the extent that its claims are identical with the original patent shall constitute a continuation thereof and have effect continuously from the date of the original patent. The commissioner may, in his discretion, cause several patents to be issued for distinct and separate parts of the thing patented, upon demand of the applicant, and upon payment of the required fee for a reissue for each of such reissued letters patent. The specifications and claims in every such case shall be subject to revision and restriction in the same manner as original applications are. Every patent so reissued, together with the corrected specifications, shall have the same effect and operation in law, on the trial of all actions for causes thereafter arising, as if the same had been originally filed in such corrected form; but no new matter shall be introduced into the specification, nor in case of a machine patent shall the model or drawings be amended, except each by the other; but when there is neither model nor drawing, amendments may be made upon proof satisfactory to the commissioner that such new matter or amendment was a part of the original invention, and was omitted from the specification by inadvertence, accident, or mistake, as aforesaid."

Approved May 24, 1928.

Changes in Classification.

Order No. 3,057, July 20, 1928, directs:

In *class 179, Telephony* (Division 16), establish the following subclass and definition, the patents contained in this subclass having been taken for the most part from class 179, Telephony, subclasses 2, Systems, Composite, and 4, Systems, Composite, Telegraphy, Metallic circuits:

Systems,
Composite
Superaudible
2.5 Telephone type.

2.5. SYSTEMS, COMPOSITE, SUPERAUDIBLE, TELEPHONE TYPE. Systems using a superaudible carrier wave for transmission of telephone signaling waves combined with any other electrical system.

Note.—For analogous combined systems using a high-frequency carrier wave, but in which the signaling wave is not limited to telephony, see class 177, Electric Signaling, subclass 352, Systems.

In *class 178, Telegraphy*, subclasses 45, Systems, Wave transmission, Loaded circuit, and 46, Systems, Wave transmission, Loaded circuit, Loading coils, and in class 179, Telephony, subclasses 2, Systems, Composite, 3, Systems, Composite, Telegraphy, and 4, Systems, Composite, Telegraphy, Metallic circuit, transfer said subclasses from Division 51 back to Division 16. This leaves in Division 51 subclass 44, Systems, Wave transmission, of class 178, and subclasses 2.5, Systems, Composite, Superaudible Telephone type, 15, Systems, Multiplex, 170, Repeaters, and 171, Relays, of class 179.

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Condition of Applications Under Examination at Close of Business July 27, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 110,270; Trade-Mark Division, 1,974. Oldest new case, Oct. 3, 1927; oldest amended, Oct. 6, 1927. The dates given are 1927 except where † indicates 1928.)

Room No.	Divisions, Examiners, and Subjects of Inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders	Dec. 9	Dec. 23	1,509
126	2. HADEN, C. F., Bee Culture, Dairy; Preserving; Presses; Tobacco	†Jan. 10	†Jan. 3	1,616
331	3. LINDSEY, A., Electric Heating; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Nov. 15	Dec. 15	1,558
214	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus and Implements, and Pushing and Pulling.	Oct. 6	Oct. 6	1,711
108*	5. MACNAB, J. F., Harvesters; Jewelry; Music; Acoustics; Sound Recording; Knotters	Oct. 10	Nov. 2	1,534
318	6. LEWERS, A. M., Chemistry; Chemistry—Carbon Compounds	Nov. 15	Nov. 29	2,485
106	7. JARBOE, C. G., Amusement and Exercising Devices; Toys; Optics; Photography	Nov. 2	Nov. 3	2,521
133	8. HENRY, C. C., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Supports, Racks; Supports, Cabinet Structures.	Nov. 14	Nov. 20	2,488
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	†Feb. 18	†Feb. 16	1,609
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Nov. 15	Dec. 5	1,896
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather Manufactures; Nailing and Stapling; Whip Apparatus; Cutting and Punching Sheets and Bars.	†Jan. 23	†Jan. 16	1,023
380	12. PIERCE, P. P., Machine Elements	Oct. 15	Nov. 8	2,115
154*	13. CLIFT, J. W., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing, Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Dec. 5	Nov. 21	1,372
102*	14. BRUMBAUGH, N. J., Compound Tools; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Oct. 29	Nov. 2	1,780
329	15. REDROW, W. L., Glass; Plastic Block and Earthenware Apparatus; Plastics	Dec. 1	Dec. 15	2,351
242*	16. SPENCER, C. J., Batteries; Resistances and Rheostats; Telegraphy; Telephony	Nov. 19	Dec. 5	1,317
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Nov. 30	Dec. 3	1,359
229	18. PORTER, M. F., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Dec. 2	Dec. 13	1,583
246	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Dec. 8	Dec. 9	1,816
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	†Feb. 9	†Feb. 18	1,495
212	21. THURBER, W. L., Winding and Reeling; Textiles; Cloth Finishing	Oct. 25	Dec. 14	1,106
244*	22. COLWELL, J. H., Aeronautics; Amusement Devices, Games; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Nov. 7	Dec. 5	1,611
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers; Horology; Time-Controlling Mechanism.	Oct. 6	Oct. 10	1,568
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Oct. 5	Oct. 7	1,553
314	25. LIGHTFOOT, J. H., Agitating; Bleaching and Dyeing; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Mills; Sugar and Starch; Thrashing; Vegetable and Meat Cutters and Comminutors.	†Jan. 5	†Jan. 5	1,719
228*	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Nov. 1	Nov. 1	1,342
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	†Jan. 4	Dec. 24	1,374
225	28. BENSON, A. R., Internal-Combustion Engines	Nov. 1	Nov. 14	2,086
160*	29. MORRIS, B. N., Abrading; Button Making; Coopering, Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking, Woodworking Tools.	Nov. 30	Nov. 23	716
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination, Typewriting Machines; Thermostats and Humidostats.	Nov. 7	†Jan. 9	1,507
312	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue.	Dec. 2	Dec. 1	2,939
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Nov. 7	Nov. 2	2,285
152	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	†Feb. 27	†Feb. 18	2,185
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Oct. 7	Oct. 13	1,520
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	†Feb. 3	†Feb. 6	1,612
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	†Jan. 24	†Jan. 13	1,903
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Nov. 2	Dec. 21	2,157
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	†Jan. 3	†Jan. 18	1,884
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Oct. 4	Nov. 1	1,794
269	40. OBERLIN, J. J., Bagging; Bottles and Jars; Package and Article Carriers; Receptacles	Oct. 10	Dec. 5	2,894
125	41. BROWN, J. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes	†Feb. 6	†Feb. 11	1,183
223*	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling	Nov. 25	Nov. 26	2,031
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members; Railway Draft Appliances.	Dec. 10	†Jan. 14	2,341
253	44. SHAFFER, C. H., Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Refrigeration.	Nov. 4	Nov. 22	2,179
176	45. GILES, A. H., Pulleys and Shafting; Lubrication; Machine Elements; Bearings and Guides	†Jan. 6	†Jan. 11	1,669
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Oct. 10	Oct. 17	1,864
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Motors; Spring Devices.	Nov. 1	Nov. 1	2,823
213*	48. ROEPKE, O. R., Electricity, General Applications	Dec. 15	Dec. 8	1,508
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Ventilation; Velocipedes; Driers; Liquid Separation or Purification.	Nov. 10	†Jan. 3	1,630
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Dec. 16	Dec. 20	2,520
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Nov. 28	Nov. 30	2,230
144	52. MORGAN, E. T., Supports; Chucks; Fire Escapes; Ladders; Scaffolds; Railway Mail Delivery; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Dec. 21	Dec. 21	2,349
143*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Nov. 23	Nov. 29	1,804
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Nov. 18	Nov. 18	2,382
102	55. RICHARD, V. I.—{Bread, Pastry, and Confection Making; Cutlery	Nov. 10	Nov. 10	949
	{Designs	†June 1	†June 20	904
309	56. PORTER, F. J. (Acting), Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation.	Oct. 8	Oct. 18	2,530
----	57.	Dec. 14	Dec. 15	1,128
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade-Marks	†June 21	†July 13	1,879
	{Labels and Prints	†July 16	†July 20	95

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

SCOTT *v.* WEISS AND HEUSER. WEISS *v.* SCOTT AND HEUSER.

Nos. 2012–1215. Decided April 2, 1928.

1. INTERFERENCE — PRIORITY — PATENTABILITY NOT REVIEWED.

"The contention that the counts of the interference are not patentable cannot be sustained. This court is concerned with the question of priority only and that is the single issue which it is called upon to determine."

2. INTERFERENCE—PRIORITY—SUFFICIENCY OF EVIDENCE.

Evidence on behalf of H. reviewed and *Held* insufficient to establish reduction to practice of the invention in issue, which involved the use of a particular accelerator, especially in view of H.'s long delay in filing his application and his applying for a patent on another accelerator without mentioning the one in issue.

3. SAME—SAME—SAME.

The testimony of W. reviewed and *Held* insufficient to establish either a conception or reduction to practice by W. of the invention prior to the date established by S.

4. SAME—SAME—SAME—ATTEMPTS TO CONCEAL EVIDENCE.

Where a representative of the company with which W. was connected attempted to influence the testimony of a witness with respect to W.'s alleged experiments and W. himself suggested to a witness not to say or remember too much about what had occurred at a certain plant, *Held* "conduct of that kind by parties in interest necessarily discredits the case which they seek to sustain."

APPEAL from the Patent Office. Affirmed in part and reversed in part.

Mr. E. J. Prindle and *Mr. C. H. Biersterfeld* for Scott.

Mr. J. S. Wooster for Weiss.

Mr. Odin Roberts and *Mr. C. S. Grover* for Heuser.

Before MARTIN, Chief Justice, VAN ORSDEL, Justice, and SMITH, Judge U. S. Court of Customs Appeals.

SMITH, *J.:*

This is a consolidated appeal from decisions of the Commissioner of Patents awarding priority of invention to Ralph V. Heuser in three party Interference No. 47,394 and three party Interference No. 49,357.

Morris L. Weiss in his preliminary statement alleges that he conceived and disclosed his invention on or about February 1, 1919; that he made his first written description of his invention on October 15, 1920, and reduced it to practice on or about December 15, 1920. Weiss filed his application for a patent on August 8, 1921.

Ralph V. Heuser's preliminary statement alleges that he conceived and disclosed his invention on June 16, 1920, and that he reduced it to practice on the 15th of July, 1920. Heuser's application for a patent on the subject matter of Interference No. 47,394 was filed on January 27, 1921.

Scott in his preliminary statement declares that he conceived the invention on September 20, 1920, and disclosed it in October, 1920; that his invention was first described in writing and reduced to practice by him on the 15th of March, 1921. Scott filed his application for a patent on June 20, 1922.

The invention involved in both interferences is a process for vulcanizing rubber by adding to heated crude rubber, sulphur and other materials an ortho-tolylguanidine vulcanization accelerator, thereby increasing the elasticity and quality of the rubber.

In Interference No. 47,394 the issue is defined in three counts which are as follows:

1. The process of treating rubber or similar materials which comprises combining with the rubber compound an ortho-tolyl guanidine.
2. The process of treating rubber or similar materials which comprises combining with the rubber compound a vulcanizing agent and an ortho-tolyl guanidine.
3. A vulcanized compound of rubber or similar material combined with a vulcanizing agent and an ortho-tolyl guanidine.

It is established by the evidence pertinent to Interference No. 47,394 that Heuser was employed by the Atlantic Dyestuffs Company on January 1, 1920, for the purpose of determining the value of a large number of chemical compounds as accelerators for the vulcanizing of rubber. Heuser prepared the several chemical compounds for ultimate use and after giving to each of them a number, delivered them to H. B. Morse, whose duty it was to mix them with crude rubber and sulphur for vulcanization. After vulcanizing the rubber mixed with any of the chemical compounds prepared by Heuser, the rubber was tested by Morse who made a report of the result of the tests to Heuser or to Burrage, the manager of the Atlantic Dyestuffs Company. On June 16, 1920, Heuser started to work on triorthotolylguanidine (TOTG) as a vulcanization accelerator. His first preparation of that compound, marked No. 18, was completed in July, 1920, and was sent through Burrage to Morse to be tested. On August 9, 1920, Morse made a report of his tests to Burrage and in that report took occasion to say that No. 18, TOTG, was slightly weaker than the company's accelerator "Akbar," but that it had no discoloring effects or accelerating effects or accelerating power at low temperatures and that as an accelerator it appeared to have no bad qualities and had all of the good qualities sought for in an accelerator. Morse recommended that the efforts of those concerned be concentrated for the present on the accelerator, TOTG. In consequence of that recommendation, the Atlantic Dyestuffs Co., about the middle of November, 1920, installed in one of its factories apparatus for the manufacture of TOTG and in the plant so established TOTG was manufactured for commercial purposes. On January 27, 1921, and about two months after the completion of the plant, Heuser filed his application for a patent for the process of vulcanizing rubber by heating it with the accelerator TOTG.

The testimony on behalf of Scott to the effect that the samples of rubber produced by Heuser could not have been made by the use of TOTG is not sufficient to overcome the evidence submit-

ted by Heuser that the samples were so made. The tests upon which Scott relies were made many years after Heuser's samples were produced and there is nothing in the record which would justify the conclusion that the precise conditions prevailing in the production of Heuser's samples governed the making of the samples evolved by Scott's experts. Apparatus, temperature, proportion of components used and the individual equation cut some figure in making experiments and in reproducing materials. Unless reproductions are made under identically the same conditions, they may well differ in some degree from the original in quality and appearance. The differences between Heuser's samples of TOTG and those produced by Scott's experts hardly justify the conclusion that TOTG was not used by Heuser in making his samples. To say that Heuser did not use TOTG in making his samples would simply mean that he and his witnesses made false reports and gave testimony that was untrue. We can not go that far. Indeed, to do so would result in ignoring the testimony of credible witnesses and the fact that the Atlantic Dyestuffs Company actually constructed an apparatus and put it in operation for the purpose of using Heuser's TOTG as an accelerator in the production of vulcanized rubber.

The evidence clearly proves that Heuser reduced his invention of TOTG to practice and promptly filed an application for a patent therefor prior to Weiss and Scott.

[1] The contention that the counts of the interference are not patentable cannot be sustained. This court is concerned with the question of priority only, and that is the single issue which it is called upon to determine. *Hisey* v. *Peters*, 6 Appls. D. C. 68, 70; *Sobey* v. *Holsclaw*, 28 Appls. D. C. 65; *Elsom* v. *Bonner*, 46 Appls. D. C. 230, 233, 234; *Lynch* v. *Headley*, 52 Appls. D. C. 269, 270.

Priority of invention as to counts 1, 2, and 3 of Interference No. 47,394 was properly awarded to Heuser.

The subject matter of Interference No. 49,357 is presented in 16 counts of which counts 1, 3, and 5 are generic to "an aryl substituted guanidine having an alkyl group in ortho position." The following counts are typical of the subject matter of the interference and the issue to be determined:

1. The process of treating rubber or similar materials which comprises combining with the rubber compound an aryl substituted guanidine having an alkyl group in the ortho position.

2. The process of treating rubber or similar materials which comprises combining with the rubber compound di-ortho-tolyl guanidine.

11. A vulcanized rubber product obtainable by inducing a reaction between rubber, a vulcanizing agent, and a di-tolyl-guanidine.

Heuser in his original application filed January 27, 1921, did not disclose or claim di-ortho-tolyl guanidine (DOTG) as a compound for accelerating the vulcanization of rubber and consequently in Interference No. 47,394 he could not assert priority as to the subject matter of counts 2, 4, and 6 to 16 involved in Interference No. 49,357. On the 18th of August, 1924, however, Heuser filed an application in which he made claim to the process of vulcanizing rubber by employing DOTG as an agency and to the vulcanized rubber produced by that process. Counts 1, 3, and 5 of Interference No. 49,357 are broad enough to read on Heuser's original application and as his right to priority as to those counts were in effect sustained in Interference No. 47,394, our consideration of Interference No. 49,357 will be limited to counts 2, 4, and 6 to 16.

It appears from the testimony submitted on behalf of Heuser that under his contract with the Atlantic Dyestuffs Company, he prepared, during the year 1920, about 30 chemical compounds and had them tested to determine their comparative value and efficiency as accelerators for the vulcanization of rubber. Among the compounds so preparded was di-ortho-tolyl guanidine (DOTG) which was marked Number 38 and submitted to Morse for testing on the 17th of August, 1920. Morse received the DOTG sent by Heuser and used it in the vulcanization of rubber on or about the 19th of August, 1920. The chemical compound made by Heuser yielded about 2 grams of DOTG which amount was capable of accelerating only about 300 grams of rubber prepared for vulcanization. Morse made that one test and no more of DOTG. That Morse did not consider that one test at all conclusive is established by his letter to Heuser dated August 20, 1920, which reads as follows:

> In testing out sample No. 38 I found that there was only 2 grams of this substance. What little test I was able to make with that amount was very interesting and I wish you would make me up about 2 ounces ob that I may test it first.

Morse testified that the word "first" should have been "further" and the substitution of the word "further" for "first" definitely proves that Morse was not finally satisfied that No. 38 was as good an accelerator as No. 18. Morse did testify that he told Heuser that No. 38 was stronger than No. 18, but he is contradicted by Heuser's data sheet which records that the strength of No. 38 was about the same as No. 18. Heuser would not have made such a record as that on his data sheet if Morse had given him information to the contrary and especially if Morse had told Heuser, as Morse says he did, that No. 38 was a better accelerator than No. 18. Moreover, if the investigations of Heuser and the tests of Morse furnished ground for the reasonable belief that DOTG was a better and stronger accelerator than any of the other chemical compounds tested, why should the Atlantic Dyestuffs Co., for whom Heuser and Morse were working, install in November, 1920, *and after the tests were made*, apparatus for the manufacture of TOTG? That fact loses none of its significance when it is remembered that Morse in that very month made tests of various accelerators including TOTG and did not test DOTG.

It is true that on June 21, 1921, samples of DOTG were sent to Glancy of the Hood Rubber Co., at Watertown, and that those samples were tested about July 8, 1921. Glancy testified that the tests indicated to him that No. 38 was a very powerful accelerator, but that he was not satisfied that proper delivery of the material could be made. In consequence, the Hood Rubber Co. declined to accept No. 38 as an accelerator. Glancy's testimony does not prove that DOTG was a better accelerator than TOTG and falls short of establishing a reduction to practice.

Heuser admits that research work as to DOTG was temporarily abandoned until the end of September, 1921, at which time he conceived of a new and improved way of making DOTG and that he worked out the new process in March, 1922. He says that in April, 1922, a small scale plant was erected for the purpose of producing, in the improved way, commercial DOTG and that several barrels of DOTG were made in that plant in the summer of 1922. The barrels were stored in a spare room of the factory where six months later they were destroyed by fire. Whether any of the DOTG so produced was used for the vulcanization of rubber does not appear. The working out by Heuser in September, 1921, of a new process for making DOTG does not support his contention that he successfully reduced his invention to practice in 1920.

Notwithstanding the tests made by Morse in August, 1920, the tests made by Glancy in July, 1921, and the production by a new method of several barrels of DOTG in the summer of 1922, it is notable that none of Heuser's DOTG was put to practical use for the manufacture of vulcanized rubber. Failure to do so probably would not amount to much if it were not for the fact that Heuser did not mention DOTG in the application for a patent filed by him in January, 1921, and did not think it worth while to apply for a patent on DOTG until August 18, 1924, more than two years after Scott filed his application for a patent on DOTG and nearly two years after the publication by Scott of an article on the use of DOTG as an accelerator for the vulcanization of rubber. Heuser admits that he read Scott's article on the use of DOTG as an accelerator for the vulcanization of rubber, which article was published in the India-Rubber Journal of September 16, 1922, and October 7, 1922. That article furnished him information that Scott was in the field. Nevertheless he made no move to patent his invention until after he had heard in April, 1924, Scott's testimony as to the use of DOTG as an accelerator, at which time the advisability of filing an application for DOTG was discussed by himself and counsel.

[2] The inadequate tests made by Morse, the tests and rejection of DOTG as an accelerator by Glancy certainly do not establish that DOTG, as conceived by Heuser, was of practical use as an accelerator in the vulcanization of rubber. Heuser's long delay in applying for a patent and his application for a patent on TOTG without mentioning DOTG is convincing that he never reduced to practice his conception of DOTG and that whatever work was done by him in developing DOTG as an accelerator was nothing more than an abandoned experiment. *Mason* v. *Hepburn*, 13 Appls. D. C. 86, 94, 95; *Warner* v. *Smith*, 13 Appls. D. C. 111, 114, 115, 116; *Howard* v. *Hey*, 18 Appls. D. C. 142, 144, 145; *Quist* v. *Ostrom*, 23 Appls. D. C. 69, 74; *Vanore* v. *Improta*, No. 2001, decided concurrently herewith.

[3, 4] Weiss contends that the use of DOTG was conceived by him and disclosed on February 19, 1919. Weiss testified that he disclosed it on that date to Mr. W. H. Daniels of the Republic Rubber Co., and told Daniels that DOTG would probably be better than diphenyl guanadine (DPG) because toluidine was known to be somewhat better than aniline as an accelerator for vulcanization. Weiss also said to Daniels that he would like to prepare some DOTG but since toluidine was more expensive than aniline and also more difficult to get, that he would prefer to work on a process for making DPG. Weiss never called Daniels as a witness and was flatly contradicted by Kinsman, a witness for Scott, who testified that toluidine was offered by the Du Pont de Nemours Company at a price 10¢ per pound lower than aniline and that it would have been more profitable to manufacture and sell DOTG than DPG, even if the raw materials for both accelerators were available at the *same* cost. Weiss stated that he not only disclosed his idea of using DOTG as a rubber accelerator to Daniels but also to Woodward and Doty in April, 1920. Weiss's contract, dated April 13, 1920, with Doty and Woodward and his contract with the Dovan Chemical Corporation, executed in March, 1921, mention a process of making DPG and do not refer either to DOTG or to di-substituted guanidines. Weiss in his application for a patent for a process of making DPG, dated July 2, 1921, makes no mention of DOTG or of his invention thereof. Weiss stated that he made di-orthotolyl-thiourea, the intermediate of DOTG, in his home from orthotoluidine which he found in the plant taken over from the Electrosynth Chemical Company. He testified that his wife decidedly objected to the foul smell produced by his chemical work and to the use of their home as a laboratory. His wife was not called to corroborate her husband's statement as to his chemical activities in the home. Dr. Elley testified positively that the amount of hydrogen bi-sulphide which Weiss would have had to use in producing DOTG would have caused a disagreeable odor throughout the apartment house. Friedel, who occupied the apartment immediately above that of Weiss during the fall of 1920, stated that he never smelled any odor produced by such chemicals. Abrams, purchasing agent and former president of the Electrosynth Chemical Company, testified that that company had no occasion to use orthotoluidine and that there was no orthotoluidine in the plant at any time while it was occupied by the Electrosynth Chemical Company. Weiss may have made DOTG in the fall of 1920 but if he did, that fact is not corroborated by other witnesses and is not in accord with his actions and business conduct. A

representative of the Dovan Chemical Company, with which Weiss is connected, attempted to influence the testimony of Dr. Webber concerning Weiss's alleged experiments with DOTG. Weiss himself suggested to Henry Abrams not to say or remember too much about what had occurred at the Electrosynth plant. Conduct of that kind by parties in interest necessarily discredits the case which they seek to sustain.

The court must hold that Weiss's claim of conception and reduction to practice of DOTG has not been established by credible evidence.

Scott testified that he disclosed the invention of DOTG to Dr. Grafton of the Quaker Rubber Company about September 20, 1920. Dr. Grafton corroborated Scott and testified that Scott had completed the making of DOTG about the latter part of February, 1921, and on March 15 produced samples of rubber, the vulcanization of which was accelerated by DOTG, which samples were tested on March 16, 1921. That Scott made comparative sample tests of DOTG and di-phenyl guanidine as accelerators is confirmed by documentary evidence which discloses the tensile strength and percentage of elongation of the rubber compounded.

The evidence on behalf of Scott satisfies the court, first, that Scott conceived the use of DOTG as a rubber accelerator on the 20th of September, 1920; second, that he actually reduced his conception to practice by using DOTG as an accelerator on March 15, 1921, and by testing the vulcanized product on March 16, 1921, in order to determine the efficiency of DOTG as an accelerator.

In Interference No. 49,357 priority of invention of the subject matter of counts 1, 3, and 5 was properly awarded to Ralph V. Heuser. Priority of invention of the subject matter of counts 2, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 16 should have been awarded to Winfield Scott. The decision of the Commissioner of Patents, in so far as it awards priority of invention to Ralph V. Heuser on counts 1, 2, and 3 of Interference 47,394 and counts 1, 3, and 5 of Interference 49,357 is affirmed. The decision of the Commissioner of Patents in so far as it awards priority of invention to Ralph V. Heuser as to counts 2, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 16 of Interference 49,357 is reversed and priority as to said last-named counts is awarded to Winfield Scott.

Affirmed as to Interference No. 47,394 and modified as to interference No. 49,357.

Court of Appeals of the District of Columbia.

IN RE HOLMES.

No. 2042. Decided April 2, 1928.

PATENTABILITY.

Claims for a pressure-fluid motor involving a device comprising a compound reduction gearing *Held* unpatentable in view of the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. Louis A. Maxson for Holmes.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.:*

Appeal from Patent Office decision refusing to allow claims in appellant's application for a patent involving a device comprising a compound reduction gearing having means for supplying motive fluid to the meshing teeth of each gear to form a motor.

The case was pending in the Patent Office more than eight years and was very carefully considered by the various tribunals, each writing an opinion. After an adverse decision by the Board of Examiners in Chief, appellant cancelled all the rejected claims and substituted others, which the board refused to consider. On appeal to the Commissioner, he ruled that—

> while these claims should have been presented to the Examiner in order that his opinion as to them should be before the appellate tribunals, yet in view of the history of the case, these claims will be admitted and here considered.

After full consideration, the Commissioner disallowed the substituted claims.

We have carefully examined the Commissioner's decision in the light of appellant's argument and brief, and are convinced of its correctness. We, therefore, affirm the decision without a restatement of reasons.

Affirmed.

Court of Appeals of the District of Columbia.

IN RE PARR.

No. 2,065. Decided June 4, 1928.

PATENTABILITY—ICE-CREAM CONTAINER.

A claim for an ice-cream container formed in the shape of a piece of pie, the sides of the container having longitudinal corrugations which are said to prevent the walls from breaking while the ice cream is being consumed, *Held* patentable over the prior art, since, when the delicate character of these edible containers is considered, a slight change productive of practical results may be of considerable importance.

APPEAL from Patent Office. Reversed in part.

Mr. J. E. Lind for Parr.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.:*

Appeal from a decision of the Patent Office rejecting all of the claims in appellant's application for a patent on edible ice-cream containers.

Claim 8, being representative, is here reproduced:

> An ice cream container formed of edible material comprising a pair of bowed substantially parallel side walls, end walls intersecting at one end connecting said side walls and defining an opening, said side walls having an outward flare adjacent said opening, a bead formed in said walls surrounding said opening and corrugations in certain of said walls strengthening the same and extending to said bead.

According to the specification and drawings, appellant's container simulates the shape of a piece of pie, the sides of the container having longitudinal corrugations that are said to prevent the walls from breaking while the ice cream is being consumed. The side walls of the container have an outward flare adjacent to the opening, it having been found that without the flare many containers would warp and break during shipment. In addition to these features, the extreme edge of the container is provided with a bead or lip for the purpose of still further strengthening the container.

The Board of Examiners in Chief and the Assistant Commissioner were of the view that no invention was involved in giving to the container shown in Rea's Design Patent No. 40,739, dated June 21, 1910, a shape corresponding to that shown in the Morrison patent No. 883,734, dated April 7, 1908.

In the Rea design patent it does not appear whether the corrugations in the side walls of the container stand out from the material or are merely fluted, but it does appear that the corrugations do not extend to the edge of the container. In other words, these corrugations in the Rea design are obviously for decorative purposes only. Nor is there an outward flare to the side walls adjacent to the opening in the Rea design. Moreover, in the Rea design the edge is disclosed as merely bent outwardly, while in appellant's container the walls around the opening contain a bead which strengthens the edges of the container.

The patent to Morrison is a nonedible container for holding a piece of pie. It possesses none of the characteristics which appellant sets forth in his specification as essential in a practical edible ice-cream container.

Appellant represented to the Patent Office that when he finally succeeded in placing his container upon the market, it met with immediate and widespread demand.

It is apparent that claim 8 does not read upon either the Rea or the Morrison patents. When the delicate character of these edible containers is considered, a slight change productive of practical results may be of considerable importance. Appellant has made an advance in the art, his claim is carefully limited to the particular structure shown, and under our rule a real doubt as to patentability should be resolved in his favor. Being of the view that something more than mere mechanical ability was involved in the development of his receptacle, we award him claim 8, or its substantial equivalent.

Decision reversed as to claim 8, and affirmed as to the other claims.

Reversed as to claim 8.

Affirmed as to other claims.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

1,018,502, Just & Hanaman, Incandescent body for electric lamps; 1,180,159, I. Langmuir, Incandescent electric lamp, D. C., S. D. N. Y., Doc. E 39/398, *General Electric Co.* v. *J. Sunshine et al.* (*Sunshine Bros.*). Decree pro confesso, patents valid and infringed May 16, 1928.

1,079,795, F. M. Naysmith, Chiropractic table; 1,269,354, 1,399,419, 1,435,037, 1,448,477, W. G. Williams, same, filed May 9, 1928, D. C., S. D. Iowa (Davenport), Doc. E 4097, *Williams Mfg. Co.* v. *C. H. Jones et al.*

1,109,950, A. Andren, Signaling apparatus; 1,666,589, C. W. Bassett, Elevator signal system, filed May 16, 1928, D. C. Del. (Wilmington), Doc. E 683, *Elevator Supplies Co., Inc.*, v. *Graham & Norton Co.*

1,180,159. (See 1,018,502.)

1,181,623, H. R. Van Deventer, Electrical condenser and manner of mounting same; 1,574,424, H. A. Hatch, Condenser, D. C., S. D. N. Y., Doc. E 31/345 and 36/106. *Splitdorf Electrical Co.* v. *Dubilier Condenser Corp.* Patent 1,181,623 held valid and infringed, May 18, 1928.

1,221,900, L. C. Palmer, Box; 1,474,844, same, Method of making paper boxes, filed May 22, 1928, D. C., W. D. N. Y., Doc. 1313–G, *F. N. Burt Co., Ltd.*, v. *R. Buedingen.*

1,269,302, Paine & Williams, Toggle bolt; 1,396,278, 1,396,279, same, Anchoring device, filed Apr. 13, 1928, D. C., E. D. Pa., Doc. 4377, *The Paine Co.* v. *U. S. Expansion Bolt Co.*

1,269,354. (See 1,079,795.)

1,287,988, J. A. Heany, Electric starting and supply system for automobiles; 1,287,989, 1,525,129, same, Dynamo-electric starting, lighting, and ignition mechanism for automobiles, filed May 21, 1928, D. C., N. D. Ohio, W. Div., Doc. E 888, *Industrial Research Corp.* v. *General Motors Corp. et al.*

1,287,989. (See 1,287,988.)

1,293,250, W. G. Troutman, Suction cleaning apparatus; 1,415,053, 1,437,996, F. E. Robertson, same; 1,472,797, P. A. Geier, Handle-securing mechanism; 1,517,811, O. C. Willis, Switching handle, D. C., N. D. Ohio, E. Div., Doc. 1328, *The P. A. Geier Co.* v. *The Wise-McClung Mfg. Co.* Claims 1, 2, 9, and 10 of 1,293,250, claims 1, 5, and 6 of 1,415,053, claims 1, 2, and 3 of 1,437,996, and all claims of 1,517,811 held valid and infringed (notice dated May 21, 1928).

1,304,747. (See Re. 15,248.)

1,307,733, A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means, filed May 12, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E N–91–J, *The Bassick Mfg. Co.* v. *J. K. MacKenzie.*

1,307,734. (See 1,307,733.)

1,339,395, 1,383,633, 1,547,155, H. L. Ingersoll, Booster motor for locomotives; 1,380,348, R. M. Brown, Controlling mechanism for booster motors, D. C., S. D. N. Y., Doc. E 30/391, *H. L. Ingersoll Locomotive Booster Co. et al.* v. *The Delaware & Hudson Co.* Patents 1,339,395, 1,383,633, and 1,547,155 sustained and infringed as to certain claims. Patents 1,380,348 held invalid as to claims 3 and 4 May 25, 1928.

1,372,154. (See Re. 15,545.)

1,372,156. (See Re. 15,545.)

1,380,348. (See 1,339,395.)

1,383,633. (See 1,339,395.)

1,393,606, E. Bernitz, Furnace wall; 1,627,349, B. H. Snow, same, filed May 2, 1928, D. C., E. D. Pa., Doc. 4403, *Bernitz Furnace Appliance Co.* v. *D. B. Wilson.*

1,396,278. (See 1,269,302.)

1,396,279. (See 1,269,302.)

1,399,419. (See 1,079,795.)

1,402,439, A. Paulson, Filing device; Des. 59,508, same, Letter file, filed May 24, 1928, D. C., S. D. N. Y., Doc. E 45/206, *Harvard Holding Corp.* v. *Globe Wernicke Co. et al.*

1,415,053. (See 1,293,250.)

1,435,037. (See 1,079,795.)

1,437,996. (See 1,293,250.)

1,446,093. (See Re. 15,248.)

1,448,477. (See 1,079,795.)

1,448,886, C. O. Walper, Building construction; 1,459,170, same, Wall construction, filed May 22, 1928, D. C., E. D. Mich. (S. Div.), Doc. 2704, *Standard Plastering System, Inc.*, v. *C. E. Reichle et al.*

1,451,491. (See Re. 15,824.)

1,459,170. (See 1,448,886.)

1,472,797. (See 1,293,250.)

1,474,844. (See 1,221,900.)

1,476,605. (See Re. 15,545.)

1,477,125. (See Re. 15,248.)

1,503,510, A. S. Margason, Windshield for closed motor cars; 1,552,332, Miller & Harvey, Air deflector, filed Apr. 26, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E N-83-H. *C. Margason* v. *A. C. Lillie* (*Hartford Wind Shield Co.*).

1,517,811. (See 1,293,250.)

1,517,844, W. P. Larson, Apparatus for making vaccine; 1,517,845, same, Process of making vaccine and product thereof, C. C. A., 8th Cir. (St. Louis), Doc. 7989, *W. P. Larson* v. *D. Crowther*. Affirmed May 14, 1928.

1,517,845. (See 1,517,844.)

1,525,129. (See 1,287,988.)

1,547,155. (See 1,839,395.)

1,552,332. (See 1,503,510.)

1,574,424. (See 1,181,623.)

1,627,349. (See 1,393,606.)

1,666,589. (See 1,109,950.)

Des. 59,508. (See 1,402,439.)

Des. 65,264. (See Re. 15,545.)

Des. 69,569 (a), Des. 72,596, R. G. Cowan, Flower holder, filed May 14, 1928, D. C., N. D. Ohio, E. Div., Doc. 2584, *Cowan Pottery Studio, Inc.*, v. *The Canton China & Glass Co.*

Des. 69,569 (b), Des. 72,596, R. G. Cowan, Flower holder; Des. 72,638, W. A. Sinz, same, filed Apr. 13, 1928, D. C., E. D. Pa., Doc. 4375, *Cowan Pottery Studio, Inc.*, v. *Ebeling & Russ.*

Des. 72,596. (See Des. 69,569 (a) and (b).)

Des. 72,638. (See Des. 69,569 (b).)

T. M. 164,476, E. Daltroff, Perfume, toilet water, etc.; T. M. 182,585, Daltroff & Cie., same; T. M. 217,081, Caron Corp., same, D. C., E. D. La., Doc. 18,843, *Caron Corp.* v. *M. Zilbermann* (*Le Coin de Paris*). Decree for plaintiff May 19, 1928.

T. M. 182,585. (See T. M. 164,476.)

T. M. 217,081. (See T. M. 164,476.)

Re. 15,248, W. G. Dingle, Fumigating and spraying apparatus; 1,304,747, same, Method of fumigating; 1,446,093, 1,477,125, R. M. Jackson, Fumigating applicator, D. C. Del. (Wilmington), Doc. E 579, *Owl Fumigating Corp* v. *California Cyanide Co., Inc.* Dismissed May 9, 1928.

Re. 15,545, 1,372,154, 1,372,156, A. L. McGregor, Automobile bumper; Des. 65,264, 1,476,605, Girl & Dunston, same, D. C., N. D. Ohio, E. Div., Doc. 1979, *The C. G. Spring & Bumper Co.* v. *The Eaton Axle & Spring Co.* Dismissed May 12, 1928.

Re. 15,824, 1,451,491, S. H. Calkins, Pattern and guide strip, filed Apr. 3, 1928, D. C., E. D. Pa., Doc. 4369, *The Trattel Marble Co.* v. *Roman Mosaic & Tile Co., Inc.*

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,516,824, Leopold D. Mannes and Leopold Godowsky, jr., Color photography, decided June 27, 1928, claims 1, 2, and 3.

Pat. 1,613,775, Charles D. White, Electromagnetic sound reproducer, decided June 4, 1928, claims 1, 2, 4, and 11.

Pat. 1,623,561, Slepian and Hanna, Acoustic horn, decided June 29, 1928, claims 2, 3, 4, 6, 7, 9, 10, 14, 15, 16, 21, 22, and 23.

Pat. 1,652,928, Ernst F. W. Alexanderson, Voltage regulator, decided June 25, 1928, claims 1 and 2.

Adjudicated Patents.

(D. C. N. Y.) The Griswold patent, No. 1,274,410, for flexible shingle, *Held* valid and infringed. *Griswold* v. *Buckle Proof Shingle Co.*, 26 F. (2d) 466.

(C. C. A. Ill.) The Sanford patent, No. 1,454,565, for combined desk and seat, claim 4 *Held* invalid and not infringed. *Sanford* v. *American Seating Co.*, 26 F. (2d) 464.

(D. C. Mass.) The Hiller patent, No. 1,589,692, for improving choke-coil amplification unit on radio signal amplifying circuits, claims 7–10 *Held* valid and infringed. *Hiller Audio Corporation* v. *General Radio Co.*, 25 F. (2d) 475.

Trade-Marks Canceled.

98,027. Soaps and cleaning powders for household use. John E. Whitmore, Buffalo, N. Y. Registered June 30, 1914. Canceled May 31, 1928.

224,170. Certain named construction materials. Mason Fibre Company, Laurel, Miss. Registered February 22, 1927. Canceled June 29, 1928.

228,385. Skin lotion. Carlin P. Mott, doing business as Mott Chemical Products, Detroit, Mich. Registered May 31, 1927. Canceled June 27, 1928.

229,653. Suits and overcoats. Charles Lawrence Bond, doing business as International Dundee Tailoring Co., New York, N. Y. Registered July 5, 1927. Canceled June 27, 1928.

239,977. Certain named construction materials. Mason Fibre Company, Laurel, Miss. Registered March 13, 1928. Canceled June 29, 1928.

253,363. Brushes. Pitegoff Brothers, New York, N. Y. Registered November 15, 1927. Canceled June 29, 1928.

Disclaimers.

1,562,550.—*Frank W. Hall*, Port Arthur, Tex. REVIVIFYING FULLER'S EARTH. Patent dated November 24, 1925. Disclaimer filed July 25, 1928, by the assignee, *The Texas Company*.

Your petitioner, therefore, hereby enters this disclaimer to the subject matter of each of the claims in said specification as follows, to wit:

"The process set forth in each of claims 1 to 6, inclusive, as applied to the treatment of materials having pores of ultramicroscopic size, such as silica gel and related artificial mineral gels, and highly activated charcoals."

1,434,953.—*Byers W. Kadel*, Baltimore, Md. DOOR MECHANISM FOR RAILWAY CARS. Patent dated November 7, 1922. Disclaimer filed July 14, 1928, by the patentee, assignee, *The Wine Railway Appliance Company*, consenting.

Hereby enters this disclaimer to claim number 3 in said specification, which is in the following words, to wit:

"A door mechanism for railway cars, including a door hinged to the car body, a bracket secured to the door, the same having two supporting faces formed thereupon, the one in advance of the other, and a door supporting member carried by the car body and arranged for supporting cooperation with either of the said supporting faces."

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 7, 1928.

[VOL. 373. No. 1.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 248,815. DIATOMITE PRODUCTS COMPANY, Los Angeles, Calif. Filed May 11, 1927.

CMIX

No claim is made to the word "Mix" apart from the trade-mark shown.

For Diatomite.

Claims use since Feb. 1, 1927.

Ser. No. 248,816. DIATOMITE PRODUCTS COMPANY, Los Angeles, Calif. Filed May 11, 1927.

DMIX

No claim is made to the word "Mix" apart from the mark shown.

For Diatomite.

Claims use since Feb. 1, 1927.

Ser. No. 258,910. JOSEPH HOLLANDER, INC., Newark, N. J. Filed Dec. 14, 1927.

JOS. HOLLANDER BROADTAIL

Applicant disclaims exclusive use of the word "Broadtail" apart from the mark shown in the drawing.

For Dressed and Dyed Furs.

Claims use since Dec. 1, 1927.

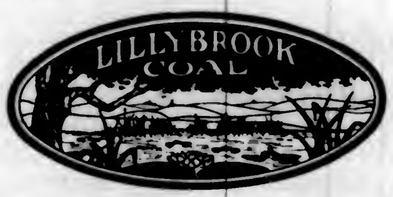
Ser. No. 262,156. THE DENVER FIRE CLAY COMPANY, Denver, Colo. Filed Feb. 24, 1928.

HeatLock

For Diatomaceous or Infusorial Earth in Powdered Form Having a Very Low Thermal Conductivity and Used Mainly for Insulation to Retain or to Exclude Heat and Also as a Sound Deadener in House Construction and as an Ingredient of Concrete.

Claims use since Dec. 20, 1927.

Ser. No. 262,664. LILLYBROOK COAL COMPANY, Sullivan and Beckley, W. Va. Filed Mar. 6, 1928.



No claim is made to the word "Coal" apart from the mark as shown.
For Bituminous Coal.
Claims use since Jan. 1, 1928.

Ser. No. 267,207. PITTSBURGH COAL COMPANY, Pittsburgh, Pa. Filed May 29, 1928.

"CHAMPION"

For Coal, Except Smithing Coal.
Claims use since Oct. 1, 1925.

Ser. No. 267,685. ALPINA A.-G., Gumligen, near Bern, Switzerland. Filed June 8, 1928.



For Leathers.
Claims use since Aug. 1, 1927.

CLASS 2.

Receptacles.

Ser. No. 247,504. UNION TANK & PIPE CO., Los Angeles, Calif. Filed Apr. 15, 1927.

UNION TANK

The descriptive word "Tank" is disclaimed apart from the mark as shown in the drawing.
For Storage Tanks, Metal Drums, and Water Towers.
Claims use since Jan. 1, 1918.

Ser. No. 261,482. MILES BLUNT, doing business as Dresvelope Company of America, San Francisco, Calif., assignor to Dresvelope Corporation, San Francisco, Calif., a Corporation of California. Filed Feb. 10, 1928.



The representation of the goods does not form a part of the registration sought apart from the mark shown in the drawing.
For Paper Garment Protector and Container.
Claims use since Feb. 1, 1927.

Ser. No. 266,522. FRANKART INC., New York, N. Y. Filed May 17, 1928.



For Aquariums Made of Slush Metal Combined with Glass and Flower Holders Made of Like Material with or without Removable Flower Vases of Glass or Pottery.
Claims use since about January, 1924.

Ser. No. 267,562. FRANK C. FLINT, doing business as Knit Goods Specialty Company, Chicopee Falls, Mass. Filed June 6, 1928.

TECS

For Fabric Bags for Shoes and the Like.
Claims use since Apr. 2, 1928.

CLASS 3.

Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 240,861. THE KEMITEX PRODUCTS COMPANY, Akron, Ohio. Filed Dec. 2, 1926.

KEMI-SUEDE

No claim is made to the exclusive use of the word "Suede" apart from the mark as shown in the drawings.
For Trunks, Traveling Bags, Suitcases, Toilet Cases, Pocketbooks, Bill Folds, and Coin Purses.
Claims use since Apr. 14, 1925.

Ser. No. 268,284. THE HORTON & HUBBARD MFG. CO., East Somerville, Mass. Filed June 19, 1928.

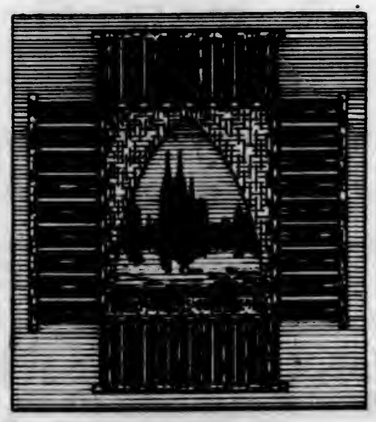
H&H

For Suitcases.
Claims use since Jan. 16, 1923.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 242,107. PAUL PETER MÜLHENS, doing business as Die Eau de Cologne- & Parfumerie-Fabrik "Glockengasse No. 4711" gegenuber der Pferdepost von Ferd. Mulhens, Cologne-on-the-Rhine, Germany. Filed Dec. 29, 1926.



The wording appearing in the mark except the name "Ferd. Mülhens" is disclaimed. The ground color of the trade-mark is greenish blue with gold and black.
For Soaps, Including Shaving Sticks.
Claims use since March, 1926.

Ser. No. 263,970. STEPHEN M. PETCHELIS, doing business as Splendid Chemical Products Manufacturing Co., New York, N. Y. Filed Mar. 29, 1928.



Made by

SPLENDID CHEMICAL PRODUCTS MF'G CO.

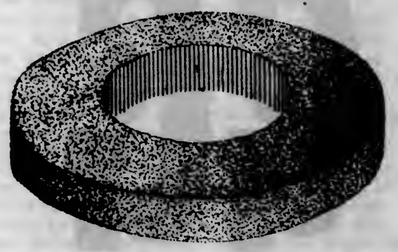
No claim is made to the exclusive use of the wording appearing on the drawing apart from the mark shown.
For Silver Polish and Silver-Polishing Powder, Shoe Polish, Dry-Cleaning Paste, Shoe Cream; Cleaning Fluid for Shoes, Hats, and Cloth; White-Kid-Cleansing Cream, Buck and Canvas Cleansing Cream, Renew Liquid and Powder for Removing Spots and Stains from Shoes; Shoe Cleaner, Powder and Liquid; Shoe Dressings, White-Felt-Hat-Cleaning Paste and Liquid, Straw-Hat Cleaners.
Claims use since on or about Jan. 1, 1927.

Ser. No. 264,725. KORITE, INC., Boston, Mass. Filed Apr. 12, 1928.

KORITE

For Leather Preservative.
Claims use since Mar. 1, 1928.

Ser. No. 265,875. ABRASIVE COMPANY, Philadelphia, Pa. Filed May 4, 1928.



No claim is made to the goods represented in the drawing apart from the red coloration of the center of the wheel. The mark consists in a red inner cylindrical surface of the central perforation of the grinder wheel.
For Abrasive Grinding and Polishing Wheels.
Claims use since Nov. 23, 1927.

Ser. No. 265,929. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio. Filed May 4, 1928.

Comet

The lining on the drawing is for the purpose of shading only.

For Soap.

Claims use since November, 1911.

Ser. No. 267,314. HANNAH A. PORTER, doing business as Pandora Products Co., East Fitchburg, Mass. Filed June 1, 1928.

Pandora
THE INSTANT CLEANER

The words "The Instant Cleaner" appearing on the drawing are disclaimed apart from the other features of the mark shown.

For Cleaner for Painted and Varnished Surfaces, Bathtubs, Lavatories, and Toilets, Refrigerators, Dishes, and Glassware, Linoleums, Oilcloth, Terra Cotta, Tile Exteriors, and Statuary.

Claims use since May 11, 1928.

Ser. No. 268,046. CELIA A. LUCIER, Chicago, Ill. Filed June 14, 1928.

GG

For General Household Cleaning Compound.

Claims use since July 19, 1921.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 247,630. OUT WEST MANUFACTURING CO., Denver, Colo. Filed Apr. 18, 1927.

Grip-It

RADIATOR
SOLDERINE
(LIQUID)

The words "Radiator" and "Liquid" are disclaimed apart from the mark shown.

For Nonmetallic Compound for Stopping Leaks in Automobile Radiators.

Claims use since Oct. 15, 1918.

Ser. No. 252,241. CHALFONT PRODUCTS INCORPORATED, New York, N. Y. Filed July 18, 1927.



For Lotions and Creams for Beautifying, Cleansing, and Preserving the Skin.

Claims use since Jan. 7, 1927.

Ser. No. 254,411. MIDWAY CHEMICAL COMPANY, Chicago, Ill. Filed Sept. 6, 1927.

RADIANT

For Household Disinfectant.

Claims use since Mar. 3, 1927.

Ser. No. 254,673. INTERNATIONAL TAKAMINE FERMENT COMPANY, New York, N. Y. Filed Sept. 13, 1927.

TAKA

For Koji, Moyashi, Diastase, Ferments, and Converting Agents.

Claims use since Jan. 6, 1908.

Ser. No. 255,301. JAMES A. PETTIFER, Seattle, Wash. Filed Oct. 19, 1927.



The signature appearing on drawing is that of applicant.

For Tooth Powder.

Claims use since Sept. 1, 1927.

Ser. No. 257,496. BOSTON WILSON, doing business as Wilson's Stomach Powder Manufacturing Co., Oklahoma City, Okla. Filed Nov. 12, 1927.

Boston Wilson's
STOMACH POWDER

The name "Boston Wilson's" is a facsimile of applicant's signature. No claim is made to the words "Stomach Powder" apart from the mark.

For Stomach Powder.

Claims use since July 22, 1925.

Ser. No. 257,657. WILLIAM H. BAXLEY, doing business as Florida Chemical Corp., Jacksonville, Fla. Filed Nov. 17, 1927.

YELLOW
MENACE

For Insecticide.

Claims use since Apr. 1, 1927.

Ser. No. 257,708. B. W. SMITH DRUG & PRODUCT LABORATORIES, INC., New Augusta, Miss. Filed Nov. 17, 1927.

RED LINE

For Aloes, Oxalic Acid, Aspirin Tablets, Balsam of Copaiba, Spirits of Nitre, Baume Tranquille, Medicinal Benzine, Bismuth Subnitrate, British Oil, Camphor Balls, Camphorated Oil, Carbolized Oil, Chloroform Liniment, Cinchona Bark, Cochineal Color, Cocoanut Oil, Cod-Liver Oil, Cottonseed Oil, Cream of Tartar, Dewees' Carminative, Dobell's Solution, Formaldehyde, Glycerine and Rose Water, Goose Grease, Henna Leaves, Hot Drops, Larkspur Lotion, Licorice-Powder Compound, Magnesia Citrate, Medicinal Mineral Oil, a Preparation for Exterminating Mosquitos, Mustard Oil, Mustard Seed, Citronella, Opodeldoc, Orris Root, Paregoric, Quinine Capsules, Rochelle Salts, Sedative Water, Seidlitz Powder, Sodium Bicarbonate, Sodium Fluoride, Soldering Fluid, Sugar of Milk, Syrup of Rhubarb, Toothache Drops, Tincture of Arnica, Tincture of Iron, Tumeric, Epsom Salts, Powdered Sulphur, Moth Balls, Bluestone, Copperas, Saltpetre, Sal Soda, Powdered Borax, Boric Acid, Powdered Alum, Lump Alum, Senna Leaves, Catnip Herb, Flaxseed Meal, Flaxseed, Powdered Citric Acid, Powdered Salicylic Acid, Powdered Tartaric Acid, Powdered Chalk, Nux Vomica, Powdered Nux Vomica, Flake White, Paris Green, Arsenate of Lead, Powdered Ginger, Powdered Mustard, Aromatic Spirits Ammonia, Glycerine, Spirits of Camphor, Syrup of Squills, Tincture of Iodine, Tincture of Assafœtida, Calomel Powder, Calomel Tablets, Calomel and Soda Tablets, Cathartic Pills, Oil of Cloves, Bay Rum, Distilled Extract Witch-Hazel, Rose Water, Sweet Spirits Nitre, Carbolic Acid, Castor Oil, Aromatic Castor Oil, Peroxide of Hydrogen, Aromatic Cascara Sagrada, Sweet Oil, Balsam Copaiba, Domestic Ammonia, Quinine Sulphate, Blue-Mass Gum, Carbon Bisulphide, Tincture Nux Vomica.

Claims use since Oct. 12, 1927.

Ser. No. 260,742. MRS. ESTER LONG MCCARTY, doing business as McCarty Medicine Company, New Orleans, La. Filed Jan. 27, 1928.

SEVEN ROOTS TONIC



The portrait shown in the drawing is that of the late Dr. Charles P. McCarty. No claim is made to the word "Tonic" apart from the mark shown in the drawing. Applicant disclaims the words "Seven Roots" apart from the mark shown.

For Tonic for Constipation, Rheumatism, Lumbago, Backache, Biliousness, Impure Blood, Neuralgia, Indigestion, Nervousness, and Sleeplessness.

Claims use since spring of 1901.

Ser. No. 261,640. HUMBERT F. MONTAGNA, doing business as Bert's Laboratory, Los Angeles, Calif. Filed Feb. 13, 1928.

DURO-DERM

For Foot Balsam.

Claims use since Sept. 12 1927.

Ser. No. 262,849. A. S. HINDS CO., Bloomfield, N. J. Filed Mar. 9, 1928.



The picture forming a feature of the mark is made from the photograph of Maud A. Beers. The lining in the background indicates the color green, and the lining in the background of the portrait indicates the color red.

For Lotion for the Skin and Complexion.

Claims use since Dec. 30, 1927.

Ser. No. 263,068. LEONE W. BROOKS, Flint, Mich. Filed Mar. 13, 1928.



Leone W. Brooks

The portrait appearing on drawing is that of applicant, with his signature therebeneath.

For Internal Medicine for the Treatment of Hay Fever, Hay Asthma, and Rose Cold; a Medicinal Snuff for the Local Treatment of Hay Fever and Nasal Catarrh, an Internal Medicine for the Treatment of Fallen or Broken-Down Arches of the Feet, an Internal Medicine for the Treatment of Excessive and Offensive Foot Sweating, an Internal Medicine for the Treatment of Rough, Pimply, and Unsightly Complexion, an Internal Medicine for the Treatment of Reflex Nervous Vomiting During Gestation, an Internal Medicine for the Treatment of Acute and Chronic Catarrh, and an Internal Medicine for the Treatment of General Nervous Conditions.

Claims use since Jan. 1, 1927.

Ser. No. 263,070. ANTHONY J. CALAJOE, doing business as Walcal Laboratories, Inc., New York, N. Y. Filed Mar. 13, 1928.

BLUD-LAC

For Blood Purifier.

Claims use since January, 1928.

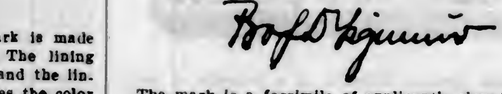
Ser. No. 263,464. DR. N. GRAHAM & CO., Indian Head, Saskatchewan, and Chatham, Ontario, Canada. Filed Mar. 20, 1928.

THEISIN

For Medicinal Compound Used in the Treatment of Tuberculosis.

Claims use since June 8, 1927.

Ser. No. 263,972. FRANZ SIGMUND, Stuttgart, Germany. Filed Mar. 29, 1928.



The mark is a facsimile of applicant's signature.

For Hair Tonic and Preparation for Treating the Hair and Scalp.

Claims use since September, 1927.

Ser. No. 263,973. FRANZ SIGMUND, Stuttgart, Germany. Filed Mar. 29, 1928.

Dakrysol

For Hair Tonic and Preparation for Treating the Hair and Scalp.

Claims use since September, 1927.

Ser. No. 264,489. A. P. BABCOCK COMPANY, New York, N. Y. Filed Apr. 7, 1928.



For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.

Claims use since September, 1883.

Ser. No. 264,749. BIO-LABRO PRODUCTS, INC., New York, N. Y. Filed Apr. 13, 1928.

COUGH CHASERS

For Preparation to Allay Irritation of the Throat Due to Common Coughs.

Claims use since Feb. 7, 1928.

Ser. No. 264,750. BIO-LABRO PRODUCTS, INC., New York, N. Y. Filed Apr. 13, 1928.

Smoke CHASERS

For Preparation for Neutralizing the Odor of Nicotine and Overcoming Tobacco Breath Odors and Aftertaste of Smoking.

Claims use since Jan. 9, 1928.

Ser. No. 264,845. PRIMROSE HOUSE, INC., Dover, Del., and New York, N. Y. Filed Apr. 14, 1928.



Primrose House

For Face Creams, Cleansing Creams, Vanishing Creams, Face Lotions, Face Astringents, Rouges, Face Powders, Talcum Powders, Lip Sticks, Hair Tonics, Hair Lotions, Hair Shampoos, Hair Depilatories, Preparations for Stiffening Eyelashes, Eyebrow Pencils, Eye Lotions, Perfumes, Toilet Waters, Nail Polishes, Nail Creams, and Chemicals Suitable for Removing Cuticle.

Claims use since May 2, 1921.

Ser. No. 265,268. AUGUSTUS H. GARLAND, doing business as Bon Soir Bug Company, Opelousas, La. Filed Apr. 23, 1928.



For Insecticides.

Claims use since June, 1925.

Ser. No. 265,287. OCCY-CRYSTINE CORPORATION, New York, N. Y. Filed Apr. 23, 1928.

Occy-Crystine

For Proprietary Medicine and a Saline Cathartic, Hydrogogue in Character.

Claims use since on or about Dec. 10, 1927.

Ser. No. 265,309. A. AARONS CO., INC., New Orleans, La. Filed Apr. 24, 1928. Under 10-year proviso.

DR. SYLVESTER'S

For Liniment for Human Use for Sprains, Bruises, Lameness, Old Wounds, Galls, Rheumatism, Spavin, Soreness, Frostbites, Chilblains, and All Diseases of Like Nature; Medical Preparations for Animals and Poultry—Namely, Specific for Colic and Tympanites, Condition Powders; Preparation for Chills and Fevers, Cough and Colds, Healing Ointment; Salve for Skin Diseases, Eruptions, Running Sores, Eczema, and All Kindred Disorders; Constipation Pills, Worm Pills, Healing Powders, Medicine for Sunstroke, Medicine for Infallible Blister and Charbon Blister, Podotrochine for Lameness, Preparation for Chicken Cholera, Lotion for Lampas; Oil for Diseases of

the Hoof in Horses, Mules, and Cattle; Liniment for Sprains, Bruises, Lameness, Old Wounds, Galls, Sprains, Ringbone, Soreness, and Weakness of Joints; and Medicine for the Relief of Founder or Lameness in Horses.
Claims use since 1894.

Ser. No. 265,346. CHARLES SPINHARNEY, Scotia, Wash. Filed Apr. 24, 1928.



The hatching of the numeral "13" is for shading purposes only.
For Hog-Conditioner Germicide.
Claims use since Mar. 1, 1928.

Ser. No. 265,355. ANDERSON DRUG COMPANY, Fort Valley, Ga. Filed Apr. 25, 1928.

IRODIDE

For Alterative Tonic.
Claims use since Mar. 29, 1928.

Ser. No. 265,564. RELIABLE PRODUCTS CO., Chicago, Ill. Filed Apr. 28, 1928.

BAL-PRU
ANTISEPTIC SHAMPOO OIL

No claim is made to the words "Antiseptic Shampoo Oil."
For Shampoo Oil.
Claims use since Jan. 1, 1927.

Ser. No. 265,589. JACOB TESMAN, Philadelphia, Pa. Filed Apr. 28, 1928.

LINSOL

For Liniment for Treating Pain Due to Local Congestion—Namely, Bronchitis, Neuritis, Pleurisy, Rheumatism, Lumbago, Sprains, and Bruises.
Claims use since Feb. 19, 1923.

Ser. No. 266,239. LITTLE B. BROWN, doing business as The Chic-Tone Company, Angola, Ind. Filed May 11, 1928.

Chic-Tone

For Poultry Tonic.
Claims use since Sept. 23, 1926.

Ser. No. 266,407. STERLING PRODUCTS (INCORPORATED), Wheeling, W. Va. Filed May 14, 1928.

Severtone

For Laxative Compound.
Claims use since Apr. 9, 1928.

Ser. No. 266,560. ERNEST W. SHARLAND, doing business as Dromore Kennels Reg., Baltimore, Md. Filed May 17, 1928.

DROMORECIDE

For Dog Medicines—Namely, Preparation for Dressing Dog's Skin and Coat of Hair; and a Preparation for the Human Scalp.
Claims use since about November, 1927.

Ser. No. 266,872. EDWARD J. MOORE SONS, INC., doing business as Sanger & Co., Long Island City, N. Y. Filed May 23, 1928.

Komes-Back

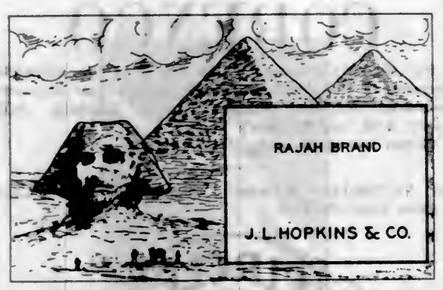
For Antiseptic Douche.
Claims use since Mar. 28, 1928.

Ser. No. 266,880. WILLIAM J. POULIN, doing business as Fuge Laboratories, Union City, N. J. Filed May 23, 1928.

VAGIFUGE

For Powder for Use as a Prophylactic, Antiseptic, and Deodorant.
Claims use since Mar. 1, 1928.

Ser. No. 266,936. J. L. HOPKINS & CO., New York, N. Y. Filed May 24, 1928.



No claim is made to the exclusive use of the word "Brand" apart from the mark shown in the drawing.
For Henna.
Claims use since about 1918.

Ser. No. 266,977. A. C. CROFF, Philadelphia, Pa. Filed May 25, 1928.

"A-H"

For Depilatory Powder, Deodorant Cream, Cigarette-Lighter Fluid, and Antiseptic Solution.
Claims use since 1895.

Ser. No. 267,019. WALGREEN CO., also doing business as Valentine Laboratories, Incorporated, Chicago, Ill. Filed May 25, 1928.

LITO

For Fluid for Cigarette Lighters.
Claims use since May, 1927.

Ser. No. 267,021. HENRY K. WAMPOLE AND COMPANY, INCORPORATED, Philadelphia, Pa. Filed May 25, 1928.

CREO-TERPIN

No claim is made to the exclusive use of the word "Terpin" apart from the mark shown in the drawing.
For Cough Mixture.
Claims use since 1903.

Ser. No. 267,060. KAY LABORATORIES, INC., West Nyack, N. Y. Filed May 26, 1928.

ALDEHOL

For Chemical Product for Denaturing Alcohol.
Claims use since Feb. 1, 1927.

Ser. No. 267,061. KAY LABORATORIES, INC., West Nyack, N. Y. Filed May 26, 1928.



For Chemical Product for Denaturing Alcohol.
Claims use since May 10, 1928.

Ser. No. 267,262. BENEDICT KOVACH, doing business as Benedict Company, Los Angeles, Calif. Filed May 31, 1928.

BENEDICT

For Ointments for the Relief of External Cancer, Piles, Boils, Pimples. Also for Asthma, Bronchial Diseases, Spinal Pain, Stiffness of Muscles, and Pain of Joints.
Claims use since Feb. 15, 1928.

Ser. No. 267,362. M. A. KEENAN & SONS, New London, Conn. Filed June 2, 1928.



Applicant disclaims the use of the word "Brand" apart from the mark shown in the drawing.
For Malt Extract for Medicinal Use.
Claims use since January, 1921.

Ser. No. 267,673. STERIL MANUFACTURING COMPANY, Omaha, Nebr. Filed June 7, 1928.

Pher-Alda
DOUBLE BASE

No claim is made to the words "Double Base" apart from the mark shown in the drawing.
For Embalming Fluid.
Claims use since Apr. 5, 1928.

Ser. No. 267,711. LAILAFLEUR, INC., New York, N. Y. Filed June 8, 1928.



No claim is made to the exclusive use of the words "New York" apart from the mark shown in the drawing.
For Hand Lotion.
Claims use since Apr. 1, 1928.

Ser. No. 267,934. A. C. CLARK COMPANY, INC., Brattleboro, Vt., and Keene, N. H. Filed June 13, 1928.

acco-balm

The word "Ba'm" is disclaimed apart from the mark shown in the drawing.
For Salve for Cuts, Abrasions, Eruption, Poison, Inflammation, Congestion, or Swelling and Fever.
Claims use since 1902.

Ser. No. 268,028. CENOL COMPANY, Chicago, Ill. Filed June 14, 1928.

CENOLIN

For Preparation for Destroying Moth and Moth Larvæ.
Claims use since February, 1927.

Ser. No. 268,082. CONSOLIDATED RENDERING COMPANY, also doing business as Atlantic Packing Company, Boston, Mass. Filed June 15, 1928.

CORENCO

For Heavy Chemicals Which are Used for Industrial Purposes in the Textile, Tanning, Dyeing, and Bleaching Industries—Namely, Sulphuric Acid, Muriatic Acid, Acetic Acid, and Glauber's Salts.
Claims use since about July, 1920.

Ser. No. 268,144. WEBSTER J. DALY, Los Angeles, Calif. Filed June 16, 1928.

CIRCLE HAIR RESTORER

The words "Hair Restorer" appearing on the drawing apart from the mark shown are disclaimed.
For Liquid Preparation for Hair Restoring.
Claims use since May 23, 1928.

Ser. No. 268,258. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed June 18, 1928.

Taralba

For Ointment for the Treatment of Various Skin Affections.
Claims use since Mar. 22, 1928.

Ser. No. 268,271. COLORADO REFINING & RESEARCH CORP., Denver, Colo. Filed June 19, 1928.



No claim is made to the exclusive use of the words "Silver, Saver, Simplicity, Satisfaction, Safety, and Service" apart from the distinguishing characteristics and arrangement of said mark.
For Chemical Reagents in Granular Form to be Used in Precipitating Silver Salts from Hypo and Fixing Baths Employed in Photographic Processes.
Claims use since July 12, 1927.

Ser. No. 268,278. M. M. FLERON & SON, INC., doing business as Bercy's Laboratories, Trenton, N. J. Filed June 19, 1928.



For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since May 1, 1928.

Ser. No. 268,309. F. AD. RICHTER & CO. OF NEW YORK, Brooklyn, N. Y. Filed June 19, 1928.

Ruffles

For Hair Tonic.
Claims use since Aug. 8, 1916.

Ser. No. 268,311. F. AD. RICHTER & CO. OF NEW YORK, Brooklyn, N. Y. Filed June 19, 1928.

BAMBINO

For Balsam for the Treatment of Constipation, Flatulency, Wind Colic, and Diarrhea.
Claims use since July 28, 1919.

Ser. No. 268,354. JAMES A. COLBERT, Fort Wayne, Ind. Filed June 20, 1928.

CARROLL'S
KOF-EZ

For Medicinal Preparation for Coughs, Colds, Sore Throat, Asthma, and Lung Fever.
Claims use since Mar. 26, 1928.

Ser. No. 268,355. COMMERCIAL PETROLEUM COMPANY, St. Joseph, Mo. Filed June 20, 1928.

LY-LOX

For Insecticides.
Claims use since June 12, 1928.

Ser. No. 268,404. HENRY K. WAMPOLE AND COMPANY, INCORPORATED, Philadelphia, Pa. Filed June 20, 1928.

FORMOLID

For Nontoxic Antiseptic Solution for External and Internal Use as Mouth Wash, Gargle, Lotion, and for Certain Stomachic Disturbances.
Claims use since about 1902.

Ser. No. 268,587. COLE CHEMICAL COMPANY, Wilmington, Del., and St. Louis, Mo. Filed June 25, 1928.

NUX-O-COLE

For Preparation for the Treatment of Anemia, Lack of Appetite, and for Increasing Elimination and Assimilation Following Acute Diseases.
Claims use since May 12, 1928.

Ser. No. 268,679. CONTINENTAL PRODUCTS CORPORATION, Los Angeles, Calif. Filed June 26, 1928.

SAN-TEX

For Deodorant, Sterilizer, and Disinfectant.
Claims use since Mar. 1, 1928.

Ser. No. 268,771. CAVENDISH CHEMICAL CORP., New York, N. Y. Filed June 28, 1928.

CAVODENT

For Tooth Pastes.
Claims use since about June, 1926.

CLASS 8.

Smokers' Articles, Not Including Tobacco Products.

Ser. No. 268,763. HANS A. WIDENMANN, New York, N. Y. Filed June 27, 1928.



For Cigarette and Cigar Holders and Pipes.
Claims use since Aug. 20, 1925.

Ser. No. 268,774. COLT'S PATENT FIRE ARMS MANUFACTURING CO., Hartford, Conn. Filed June 28, 1928.

TOBAC-A-DOR

For Tobacco Containers and Combination Containers for Tobacco, Cigars, Cigarettes, and the Like.
Claims use since about May 15, 1928.

CLASS 9.

Explosives, Firearms, Equipments, and Projectiles.

Ser. No. 264,867. BROWNING BROTHERS COMPANY, Ogden, Utah. Filed Apr. 16, 1928.



No claim is made to the word "Automatic" apart from the other features shown nor to the representation of the butt plate.
For Automatic Shotguns.
Claims use since August, 1923.

Ser. No. 268,757. VULCAN MATCH CO., INC., New York, N. Y. Filed June 27, 1928.



No claim is made to the exclusive use of the words "Safety Matches Made in Sweden" apart from the mark shown in the drawing.
For Safety Matches.
Claims use since Feb. 29, 1928.

CLASS 10.

Fertilizers.

Ser. No. 266,778. EDWIN HILL ANDERSON, New York, N. Y. Filed May 22, 1928.

MIRACLE FERTILIZER

No claim is made to the exclusive use of the word "Fertilizer" apart from the mark shown in the drawing.
For Fertilizers.
Claims use since Apr. 18, 1928.

CLASS 11.

Inks and Inking Materials.

Ser. No. 266,185. JAMES SCOTT ST. BARBE BAKER, London, England. Filed May 10, 1928.

BLOTO

For Inks for Use in Writing, Stamping, Drawing, Printing, Lithographing, and Stenciling.
Claims use since Dec. 30, 1927.

Ser. No. 266,196. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main and Berlin, Germany. Filed May 10, 1928.

Colink

For Writing and Drawing Inks.
Claims use since May 31, 1927.

Ser. No. 266,197. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main and Berlin, Germany. Filed May 10, 1928.

Noaril

For Writing and Drawing Inks.
Claims use since Oct. 5, 1927.

Ser. No. 267,909. L. E. WATERMAN COMPANY, New York, N. Y. Filed June 12, 1928.



The drawing is lined to indicate the colors yellow, red, green, and black, which are claimed as features of the mark. No claim is made to the exclusive use of the word "Ink" apart from the mark shown on the drawing.
For Writing Inks.
Claims use since May 1, 1928.

Ser. No. 267,910. L. E. WATERMAN COMPANY, New York, N. Y. Filed June 12, 1928.



The drawing is lined to show the colors yellow, green, and red, which are claimed as features of the mark. No claim is made to the exclusive use of the word "Ink" apart from the mark shown in the drawing.
For Writing Inks.
Claims use since May 1, 1928.

Ser. No. 267,911. L. E. WATERMAN COMPANY, New York, N. Y. Filed June 12, 1928.



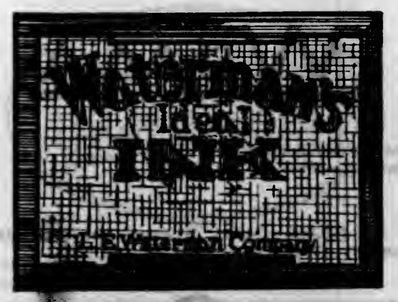
The drawing is lined to show the colors yellow, red, and green, which are claimed as features of the mark. No claim is made to the exclusive use of the word "Ink" apart from the mark shown on the drawing.
For Writing Inks.
Claims use since May 1, 1928.

Ser. No. 267,912. L. E. WATERMAN COMPANY, New York, N. Y. Filed June 12, 1928.



The drawing is lined to show the colors yellow, red, green, and violet, which are claimed as features of the mark. No claim is made to the exclusive use of the word "Ink" apart from the mark shown in the drawing.
For Writing Inks.
Claims use since May 1, 1928.

Ser. No. 267,913. L. E. WATERMAN COMPANY, New York, N. Y. Filed June 12, 1928.



The drawing is lined to show the colors yellow, green, red, blue, and black, which are claimed as features of the mark. No claim is made to the exclusive use of the word "Ink" apart from the mark shown in the drawing.
For Writing Inks.
Claims use since May 1, 1928.

CLASS 12.

Construction Materials.

Ser. No. 248,090. JAY W. CRAIG, Minneapolis, Minn. Filed Apr. 28, 1927.

"The Craig Way"

For Asphaltic Surfacing Material.
Claims use since on or about Jan. 1, 1925.

Ser. No. 249,512. WILLIAM A. COLLINGS, Los Angeles, Calif. Filed May 25, 1927.

AQUAGEL

For Waterproofing Material for Use in Concrete or the Like.
Claims use since April, 1926.

Ser. No. 256,527. ARTHUR VICTOR LEGGO and ERNEST BARTON HACK, Melbourne, Victoria, Australia. Filed Oct. 24, 1927.

COLITHO

For Bituminous Materials for Use in the Making of Roadways, Pathways, Roofs, and the Like.
Claims use since 1925.

Ser. No. 263,449. WESTERN DOOR MANUFACTURERS ASSOCIATION, Tacoma, Wash. Filed Mar. 19, 1928.

WDMA

For Wooden Doors.
Claims use since Feb. 22, 1928.

Ser. No. 263,663. NORTH WESTERN EXPANDED METAL COMPANY, Chicago, Ill. Filed Mar. 23, 1928.

NORWEST

For Metal Lath.
Claims use since about Mar. 15, 1928.

Ser. No. 264,023. THE DAVEY TREE EXPERT COMPANY, Kent, Ohio. Filed Mar. 30, 1928.

DAVEYKOTE

For Tree-Wound Dressing Containing Asphalt and Waterproofer.
Claims use since Mar. 1, 1928.

Ser. No. 265,257. CEMROC, INC., Cincinnati, Ohio. Filed Apr. 23, 1928.

CEMROC

For Building Units Made of Cement Consisting of Brick-shaped Pieces, Blocks, and H-Shaped Pieces.
Claims use since Apr. 13, 1928.

Ser. No. 265,282. MORRILL & STURGEON LUMBER COMPANY, Portland, Oreg. Filed Apr. 23, 1928.

OREPORT

For Doors, Lumber, and Plywood, Panels, and Shingles.
Claims use since Mar. 8, 1928.

Ser. No. 265,783. FOLDAHOME MANUFACTURING COMPANY OF CALIFORNIA, San Francisco, Calif. Filed May 2, 1928.

FOLDAHOME

For Sectional Camp Cabins.
Claims use since Apr. 23, 1928.

Ser. No. 267,054. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis. Filed May 26, 1928.

Jamesway

For Steel Supporting Columns with Caps and Bases Unfilled and Filled with Cement; Metal Window for Hog Houses, Poultry Houses, and Barns; Pointed-Arch Farm Buildings, and Thermal Insulation.
Claims use since Mar. 1, 1921.

Ser. No. 267,372. ARTHUR EDWARD MILLINGTON, doing business as Insulating Board Co., Portland, Oreg. Filed June 2, 1928.

FIR-TEX

Applicant disclaims any right to the exclusive use of the word "Fir" apart from its relation and association herein.
For Composition Wood-Fibre Board.
Claims use since May 13, 1928.

Ser. No. 267,428. VICTOR LACHIN, doing business as Architectural Cast Stone Co., New Orleans, La. Filed June 4, 1928.

ARCASTO

For Artificial Building Stone.
Claims use since May 1, 1928.

Ser. No. 267,454. POWER PLANT ECONOMY CO., St. Louis, Mo. Filed June 4, 1928.

SUPER - REFRACTO

For Baffle Mix.
Claims use since Aug. 2, 1926.

Ser. No. 267,801. RED SPOT PAINT & VARNISH CO., also doing business as Evansville Paint & Varnish Co., Evansville, Ind. Filed June 9, 1928.

RED SPOT

The drawing is lined for red.
For Plastic Roof Cement, Furnace Cement.
Claims use since June 1, 1912.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 254,836. FRANK G. DELBON, Brooklyn, N. Y. Filed Sept. 17, 1927.

TRIPEDIC SUPPORT

The word "Support" is hereby disclaimed apart from the mark.
For Metal Shanks for Shoes.
Claims use since about Oct. 10, 1923.

Ser. No. 256,193. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis. Filed Oct. 17, 1927.

Jamesway

For Metal Gutter and Manger Drains, Metal Gates, Harness and Saddle Hooks, Standard and Special Metal Cow Stalls, Metal Stall Frames; Metal Calf, Cow, Bull, and Hog Pens; Metal Cattle Stanchions, Feeding Hayracks, Metal Horse Stalls, Pressure and Gravity Animal Drinking Cups, and Poultry-Roost Supports.
Claims use since Mar. 1, 1921.

Ser. No. 260,054. SUPER NOVELTY COMPANY, New York, N. Y., assignor to Super Novelty Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 13, 1928.

"BINGO" IT STICKS

No claim is made to the words "It Sticks" apart from the mark as shown.
For Portable Vacuum-Cup Brackets for Hangers, Mirrors, and Shelves.
Claims use since June 15, 1927.

Ser. No. 262,703. FRANK G. DELBON, Brooklyn, N. Y. Filed Mar. 7, 1928.

ARCH BALANCE

For Metal Shanks for Shoes.
Claims use since about May 1, 1925.

Ser. No. 264,084. FRANK G. DELBON, Brooklyn, N. Y. Filed Mar. 31, 1928.

ANATOMIC MASTERARCH SUPPORT

The words "Anatomic Support" are disclaimed apart from the mark shown.
For Metal Shanks for Shoes.
Claims use since about Jan. 15, 1927.

Ser. No. 265,878. AUTOMATIC SPRINKLER CORPORATION OF AMERICA, Cleveland, Ohio. Filed May 4, 1928.

RATE OF RISE

For Automatic Sprinkler Apparatus and Parts Thereof for Permanent Installation for Fire-Protection Purposes.
Claims use since Mar. 14, 1928.

Ser. No. 267,332. ANDERSEN FLUME GATE COMPANY, Redlands, Calif. Filed June 2, 1928.

THE DIAMOND NO-LEAK GATE

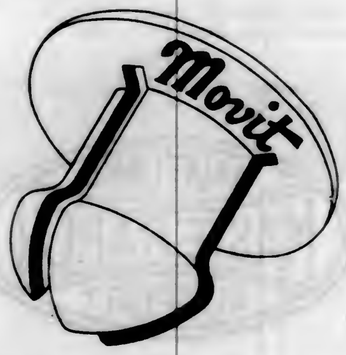
The words "No Leak" and "Gate" are disclaimed apart from the other features of the mark.
For Flume Gates.
Claims use since June 24, 1913.

Ser. No. 267,432. DAVID LUPTON'S SONS COMPANY, Philadelphia, Pa. Filed June 4, 1928.

Movit

For Rivets.
Claims use since May 5, 1928.

Ser. No. 267,433. DAVID LUPTON'S SONS COMPANY, Philadelphia, Pa. Filed June 4, 1928.



No claim is made to the representation of a rivet apart from the mark as shown.
For Rivets.
Claims use since May 5, 1928.

Ser. No. 268,357. FRANK G. DELBON, Brooklyn, N. Y. Filed June 20, 1928.



For Metal Shanks for Shoes.
Claims use since about Mar. 2, 1925.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 264,741. WHEELING STEEL CORPORATION, Wheeling, W. Va. Filed Apr. 12, 1928.

COP-R-LOY

For Black and Galvanized Steel Sheets.
Claims use since Mar. 12, 1928.

Ser. No. 266,587. THE EASTERN ROLLING MILL COMPANY, Baltimore, Md. Filed May 18, 1928.



For Sheet Steel and Steel Alloys.
Claims use since May 15, 1928.

Ser. No. 268,067. UNITED STATES FOIL CO., Louisville, Ky. Filed June 14, 1928.

SANI-FOIL

The word "Foil" does not form a part of the registration sought apart from the mark shown in the drawing.
For Metallic Sheet Material—Namely, Aluminum Foil.
Claims use since about Apr. 1, 1928.

CLASS 15.

Oils and Greases.

Ser. No. 254,467. MEHMKEN OIL CO., Burlington, Iowa. Filed Sept. 7, 1927.

Mehmken
Touch 'n Travel

For Gasoline.
Claims use since Apr. 1, 1927.

Ser. No. 255,079. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed Sept. 22, 1927.



The representation of an oil drum is disclaimed, the mark consisting in the contrasting colors blue and red applied to the containers are indicated in the drawing.
For Lubricating Oils.
Claims use since Aug. 15, 1927.

Ser. No. 264,720. GARCIA, JUSTO & CIA., Buenos Aires, Argentina. Filed Apr. 12, 1928.



The word "Niagara" is disclaimed apart from the mark shown.
For Lubricating Oils and Greases.
Claims use since Sept. 30, 1927.

Ser. No. 265,065. THE PENNZOIL COMPANY, Los Angeles, Calif. Filed Apr. 18, 1928.

PENNZOIL

For Motor Fuel Oils and Lubricant Oils and Greases.
Claims use since on or about Dec. 28, 1915.

Ser. No. 265,376. LEONARD T. GAEDNER, doing business as Lindico Oil Co., Baltimore, Md. Filed Apr. 25, 1928.

LINDICO

For Liquid Fuel Oils and Lubricating Oils for Internal-Combustion Engines.
Claims use since Mar. 1, 1928.

Ser. No. 265,382. E. F. HOUGHTON & CO., Philadelphia, Pa. Filed Apr. 25, 1928.

MARVELOUS OIL

No claim is made to the word "Oil" apart from the mark shown.
For Lubricating Oils.
Claims use since July, 1922.

Ser. No. 266,784. BLUE BIRD CHEMICAL COMPANY, Los Angeles, Calif. Filed May 22, 1928.

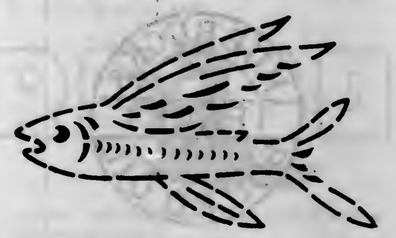
Blue Bird



FLY WITH BLUE BIRD

For Gasoline.
Claims use since Mar. 1, 1928.

Ser. No. 266,842. TIDE WATER OIL COMPANY, Bayonne, N. J., and New York, N. Y. Filed May 22, 1928.



TYCOL

For Lubricating Oils and Lubricating Greases, Gasoline, Kerosene, and Naphtha.
Claims use since June 1, 1920.

Ser. No. 267,996. QUAKER OIL COMPANY, INC., Plainfield, Ind. Filed June 13, 1928.

QUAKER PREMIUM

Applicant disclaims the use of the word "Premium" apart from the mark shown in the drawing.
For Motor-Lubricating Oil.
Claims use since August, 1926.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 254,412. MIDWAY CHEMICAL COMPANY, Chicago, Ill. Filed Sept. 6, 1927.

RADIANT

For Furniture Polish, Liquid Wax, Wax Floor Oil, and Prepared Paste Wax for Use on Floors and Woodwork.
Claims use since Oct. 29, 1926.

Ser. No. 262,851. THOMAS HUBBUCK & SON LIMITED, London, England. Filed Mar. 9, 1928.

HUBBUCK'S PALE BOILED OIL

No claim is made to the words "Pale Boiled Oil" apart from the mark shown.
For Linseed Oil.
Claims use since 1876.

Ser. No. 266,572. THE AMERICAN WATERPROOFING COMPANY, Cincinnati, Ohio. Filed May 18, 1928.

AMERTITE

For Waterproofing Paint for Canvas and Fabrics.
Claims use since Aug. 1, 1927.

Ser. No. 266,927. WM. FRANK GRIFFIS, doing business as X-It Laboratories, Cleveland, Ohio. Filed May 24, 1928.

X-IT

The drawing shows the words "X-It" on an oval-shaped red background surrounded by a black edge.
For Auto Cleaner—Namely, Automobile Polish for "Duco Lacquer", Painted and Enameled Surfaces, Liquid Auto Body Cleaner and Polish Including Separating and Nonseparating Emulsions; Wax Paste Auto Polish, Liquid Cream Body Polish, Tire Paints, Auto Enamel, and Paint and Varnish Remover.
Claims use since May 1, 1928.

Ser. No. 266,930. STEVEN HARDY, New York, N. Y. Filed May 24, 1928.

VIOLITA

For Wood Cleaning and Polishing Fluid.
Claims use since Mar. 1, 1928.

Ser. No. 267,480. ARNESTO PAINT COMPANY, INC., New York, N. Y. Filed June 5, 1928.

ANECO

For Interior and Exterior Paint Containing a Composition of Lithopone, Zinc Oxide, Linseed Oil, and Dryers.
Claims use since May 1, 1918.

Ser. No. 267,486. W. JULE DAY, New York, N. Y. Filed June 5, 1928.

PAINTS SCIENCE TRADE MARK PAINTLACQ

All wording appearing on the drawing except the word "Science" are disclaimed apart from the mark shown.
For Paste and Ready-Mixed Paints and Lacquers.
Claims use since about May 20, 1928.

Ser. No. 267,924. THE BENS' CHEMICAL COMPANY, Jackson, Mich. Filed June 13, 1928.

NOT A PAINT
BENITE
NOT A VARNISH

The words "Not a Paint" and "Not a Varnish" are disclaimed apart from the other features of the mark shown in the drawing.
For Penetrating, Preserving, Long-Wearing Preparation, Used on Wood, Plaster, Brick, Stucco, Cement, Marble, Terrazo, Metals, Glass, Linoleum, Pulp Boards, and Automobiles for Cleaning and Rejuvenating Varnished or Painted Surfaces.
Claims use since Jan. 1, 1925.

Ser. No. 267,968. KNOX VARNISH COMPANY, Boston, Mass. Filed June 13, 1928.

NOXCO

For Paint Enamels and Varnishes.
Claims use since on or about November, 1922.

Ser. No. 268,069. WADSWORTH HOWLAND & CO. INCORPORATED, Boston, Mass. Filed June 14, 1928.

FOROUR

For Varnishes and Paint Enamels.
Claims use since June 5, 1928.

CLASS 17.

Tobacco Products.

Ser. No. 262,287. BROWN & WILLIAMSON TOBACCO CORPORATION, Winston-Salem, N. C. Filed Feb. 27, 1928.

AVALON

Applicant is owner of Certificate No. 170,107, issued July 10, 1923.
For Cigarettes.
Claims use since July 1, 1921.

Ser. No. 265,632. GENERAL-DIREKTION DER ÖSTERR. TABAKREGIE, Vienna, Austria. Filed Apr. 30, 1928.

ASTA

For Chewing, Smoking, Snuffing Tobaccos, Cigars, and Cigarettes.
Claims use since Feb. 24, 1928.

Ser. No. 265,638. GENERAL-DIREKTION DER ÖSTERR. TABAKREGIE, Vienna, Austria. Filed Apr. 30, 1928.

SMART

For Chewing, Smoking, Snuffing Tobaccos, Cigars, and Cigarettes.
Claims use since Feb. 11, 1928.

Ser. No. 267,889. JOSE FERNANDEZ, doing business as Jose Fernandez Cigar Co., Tampa, Fla. Filed June 12, 1928.

DARLING TAMPA

Applicant disclaims the use of the word "Tampa" apart from the mark shown in the drawing.
For Cigars.
Claims use since January, 1928.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 266,420. FACE-A-LITE MANUFACTURING COMPANY, INCORPORATED, Mitchell, S. Dak. Filed May 15, 1928.

FACE-A-LITE

For Glare Shields for Automobile Windshields.
Claims use since Nov. 1, 1926.

Ser. No. 266,752. THE RE-BO COMPANY, INC., Syracuse, N. Y. Filed May 21, 1928.

RE-BO

The pictorial representation of the article and of the hand truck is disclaimed.
For Demountable Bodies for Hand Trucks.
Claims use since Apr. 20, 1928.

Ser. No. 268,338. AUTOMOTIVE STANDARDS, INC., Newark, N. J. Filed June 20, 1928.

RED-BUG

For Electric Automobiles.
Claims use since June 1, 1927.

CLASS 20.

Linoleum and Oiled Cloth.

Ser. No. 266,442. SLATER'S GLOBE CARPET & LINOLEUM CO. INC., Paterson, N. J. Filed May 15, 1928.

SLATER'S

For Linoleum and Oiled Cloth.
Claims use since April, 1903.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 255,286. PORCELAIN PRODUCTS, INC., Findlay, Ohio. Filed Dec. 1, 1927.

PP
TRADE INC MARK

The words "Trade-Mark" are disclaimed apart from the mark shown.

For Porcelain Articles Used for Insulating Purposes in Electrical Devices, Appliances, and Fittings—Namely, High-Tension Insulators, Low-Tension Insulators, Switch Bases, Cut-Outs, Fuses, Fuse Blocks, Receptacles, Sockets, Plugs, Rosettes, Knobs, Tubes, Cleats, Bushings, Buttons, and Refractory Porcelain Parts for Electrical Heating Appliances.
Claims use since Oct. 1, 1927.

Ser. No. 263,223. NEALE, INC., Los Angeles, Calif. Filed Mar. 15, 1928.

Neo GOLD

The word "Gold" is disclaimed apart from the mark shown in the drawing.

For Signs Containing Luminous Tubes Which Produce a Gold-Colored Light.
Claims use since Feb. 1, 1928.

Ser. No. 266,148. REVERE ELECTRIC CO., Chicago, Ill. Filed May 9, 1928.



The word "Chicago" is disclaimed except in association with the mark shown on the drawing.

For Electrical Supplies Consisting of Conduits, Bells, Buzzers, Wire, and Insulating Tape.
Claims use since Dec. 1, 1919.

Ser. No. 266,394. NOMA ELECTRIC CORPORATION, New York, N. Y. Filed May 14, 1928.



For Christmas-Tree Lighting Outfits; Electric Decorative Devices—Namely, Electric-Lighting Fixtures and Reflectors, Miniature Electric Sockets, Plugs, and Receptacles, Electric Candelabra, and Electric Lamps.
Claims use since about Apr. 30, 1928.

Ser. No. 267,414. W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y. Filed June 4, 1928.

MERCURY

For Spark Plugs.
Claims use since May 3, 1928.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 260,832. MONTAGUE ROD AND REEL COMPANY, Montague City, Mass. Filed Jan. 28, 1928.

MONTAGUE

Applicant is the owner of registration No. 223,732 covering the name "Montague," effected under the 10-year proviso.
For Fishing Rods.
Claims use since Oct. 18, 1927.

Ser. No. 264,502. THE AMERICAN-NATIONAL COMPANY, Toledo, Ohio. Filed Apr. 7, 1928.

PLAYARD

For Juvenile Amusement Devices—Namely, Gym Sets, Sand Boxes, Teeter-Totters, Roller Coasters, Small Baby Yard Fences, Slides for Children, and Small Garden Table and Chair Sets.
Claims use since Feb. 15, 1928.

Ser. No. 264,676. MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Apr. 11, 1928.

ELFLAND

For Toys—Namely, Toy Blocks, Toy Guns and Pistols, Toy Aeroplanes and Kites, Bows and Arrows, Toy Boats, Garden Sets, Pails and Shovels, Sand Toys, Jump Ropes, Pin Wheels, Mechanical Metal Toys, Friction or Hill-Climber Toys, Wooden Pull Toys, Iron and Steel Pull Toys, Toy Banks, Mechanical Trains, Toy Sadirons, Toy Stoves, Toy Steam Engines, Magic Lanterns and Moving-Picture Machines, Toy Sewing Machines, Toy Telephones, Toy Watches, Tops, Toy Construction Sets, Toy Houses and Garages, Toy Furniture, Cradles, Beds, Toy Trunks, Toy Horses and Wagons, Toy Wheelbarrows, Toy Drums, Toy Pianos, Toy Horns, Toy Whistles, Bell and Chime Toys, Toy China Tea Sets and Coffee Sets, Toy Aluminum Tea and Coffee and Kitchen Sets, Miniature Kitchen Utensils, Toy Laundry Sets, Toy Carpet Sweepers, and Brooms; Stuffed Animals, Including Teddy Bears, Circus Toys, Toy Tool Chests, Animal Sets, Celluloid Dolls and Animals, Rubber Dolls and Animals, Lead Soldiers, Indians, and Farm Sets, Dolls and Accessories for Toys, Card Games, Board Games, and Table Games Played with Pieces, Christmas-Tree Ornaments, Baby Rattles, Balls and Marbles, and Holiday, Party, and Birthday Favors.
Claims use since April, 1924.

Ser. No. 266,634. ZULU TOY MANUFACTURING COMPANY, INC., Battle Creek, Mich. Filed May 18, 1928.

DAVID GOES TO GREENLAND

For Board Game.
Claims use since Mar. 27, 1928.

Ser. No. 267,248. FINLAYSON, BOUSFIELD & CO., LTD., Johnstone, Scotland. Filed May 31, 1928.



No claim is made to the words "Brand, Finlayson's Fishing Line, Manufactured at Johnstone—Scotland" apart from the mark shown in the drawing.
For Fishing Lines.
Claims use since Sept. 1, 1926.

Ser. No. 267,623. JULES N. WINGTEN, doing business as Drive-O-Meter Company, New York, N. Y. Filed June 6, 1928.

DRIVE-O-METER

For Game Device for Playing and Practice of the Game of Golf.
Claims use since Jan. 15, 1928.

Ser. No. 267,700. THE CRAWFORD, MCGREGOR AND CANBY COMPANY, Dayton, Ohio. Filed June 8, 1928.

Regal

For Golf Clubs.
Claims use since on or about Jan. 14, 1928.

Ser. No. 267,811. THE THOMAS AGENCY, Chicago, Ill. Filed June 9, 1928.

PLUS FOUR

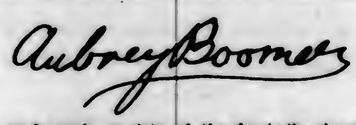
For Golf Balls.
Claims use since Oct. 19, 1927.

Ser. No. 268,128. F. W. WOOLNOUGH CO., INC., Brooklyn, N. Y. Filed June 15, 1928.



No claim is made to the circle nor to the word "Dog" apart from the mark shown.
For Toy Dogs.
Claims use since May 31, 1928.

Ser. No. 269,011. WILSON-WESTERN SPORTING GOODS COMPANY, Chicago, Ill. Filed July 2, 1928.



The trade-mark consists of the facsimile signature of Aubrey Boomer. Permission granted.
For Golf Clubs.
Claims use since June 28, 1928.

Ser. No. 269,012. WILSON-WESTERN SPORTING GOODS COMPANY, Chicago, Ill. Filed July 2, 1928.



The trade-mark consists of the facsimile signature of Archie Compston. Permission granted.
For Golf Clubs.
Claims use since June 28, 1928.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 253,968. THE VIKING TOOL AND MACHINE CO., INC., Brooklyn, N. Y. Filed Aug. 25, 1927.

VIKING

For Dies, Jigs, Taps, Spool and Coil Winding Machines, Wire-Bundling Machines, Metal-Moulding-Rolling Machines, Cable and Rope Manufacturing Machines, and Press Stands for Feeding Stock to Punch Presses.
Claims use since June 20, 1927.

Ser. No. 258,138. MARCEL SCHERRER, Courbevoie, France. Filed Nov. 28, 1927.

"VANADIOM'S"

For Tools—Namely, Lathes, Planing Machines, Grinders, Drillers, Braces, Pincers, Screw Drivers, Chisels, and Similar Tools.
Claims use since July 30, 1927.

Ser. No. 261,229. JEAN JORDEAU, INC., South Orange, N. J., and New York, N. Y. Filed Feb. 4, 1928.

ZIP

For Razors.
Claims use since Jan. 15, 1912.

Ser. No. 265,884. BURNOYL HEATING CORPORATION, also doing business as Automatic Equipment Co., Providence, R. I. Filed May 4, 1928.

FIRETOX

For Portable Hand Fire Extinguishers and for Automatc Fire Extinguishers.
Claims use since Dec. 29, 1927.

Ser. No. 266,889. SÄURESCHUTZ-GESELLSCHAFT M. B. H., Berlin-Alt-Glienicke, Germany. Filed May 23, 1928.

Haveg

For Centrifuges, Extractors, Stirrers, Aspirators, Pumps, Drying Apparatus, and Fans for Exhausting Acid Vapors, All Made of or Provided with Coatings and Linings Which are Chemically Resistant and Composed of Plastic Composition, All Used in the Chemical Industry.
Claims use since Nov. 30, 1922.

Ser. No. 267,122. HUDSON MANUFACTURING CO., Minneapolis, Minn. Filed May 28, 1928.

HANDIBRUSH

For Sprayers and Spraying Attachments for Household and Industrial Uses.
Claims use since about May 16, 1928.

Ser. No. 267,123. HUDSON MANUFACTURING CO., Minneapolis, Minn. Filed May 28, 1928.

MOTO-AIR

For Sprayers and Spraying Attachments for Household, Industrial, and Agricultural Uses.
Claims use since about May 16, 1928.

Ser. No. 267,221. THE AKRON TYRWELDER COMPANY, Akron, Ohio. Filed May 31, 1928.

TYRWELDER

For Tire-Vulcanizing Machine.
Claims use since on or about June, 1925.

Ser. No. 267,614. THE STANDARD CARD CLOTHING COMPANY, Stafford Springs, Conn. Filed June 6, 1928.



Under this registration the words "Stafford Springs, Conn. Dependability, Guaranteed, and Durability" are disclaimed apart from the mark shown in the drawing.
For Card Clothing and Hand Cards for Carding for Use in the Textile Industry.
Claims use since June 2, 1928.

Ser. No. 268,054. NEVA-CLOG PRODUCTS, INC., Bridgeport, Conn. Filed June 14, 1928.

DUPLEX

For Stapling Machines and Attachments, Particularly of the Desk Type.
Claims use since Mar. 5, 1928.

Ser. No. 268,068. UTILITIES CORPORATION OF MARYLAND, Washington, D. C. Filed June 14, 1928.

WHITE HOUSE

For Hand Dishwashing Appliance Comprising a Nozzle, Soap Mixer, and Hose with Faucet Connection Sold as a Unit.
Claims use since May, 1927.

Ser. No. 268,111. THE OSTER MANUFACTURING COMPANY, Cleveland, Ohio. Filed June 15, 1928.

OSTER

Applicant is the owner of Certificate No. 70,024, issued July 21, 1908.
For Thread-Cutting Tools, Machines, and Devices; Die-stocks, Dies, Pipe-Cutting Machines, Pipe Vises, Pipe-Threading Machines, Both Hand and Power Operated, and Parts Thereof.
Claims use since Dec. 1, 1927.

Ser. No. 268,231. MANNING, BOWMAN & CO., Meriden, Conn. Filed June 18, 1928.

ARANIUM

For Articles Made of Base Metal Plated with Chromium—to wit, Knife Handles, Forks, and Spoons.
Claims use since Nov. 29, 1927.

CLASS 25.

Locks and Safes.

Ser. No. 266,578. E. J. BROOKS AND COMPANY, New York, N. Y. Filed May 18, 1928. Under 10-year proviso.

E.J.BROOKS & CO.

For Base-Metal Truck-Car and Shipping-Case Seals.
Claims use since 1885.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 266,226. JAMES A. SWEENEY, Providence, R. I. Filed May 10, 1928.

CLOYSNAY

For Eyeglasses and Spectacles and the Constituent Parts of Eyeglasses and Spectacles.
Claims use since Apr. 16, 1928.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 267,403. ANNA E. BIENSTOCK, Newark, N. J. Filed June 4, 1928.

PRACTO

For Cleaning, Dusting, and Polishing Mops.
Claims use since Mar. 15, 1928.

Ser. No. 267,438. PRATT-MALLORY COMPANY, Sioux City, Iowa. Filed June 4, 1928.

"OF COURSE"
MALLORY'S

The word "Mallory's" forms a part of the registration sought only in association with the other features of the mark shown in the drawing.
For Brooms.
Claims use since Mar. 8, 1926.

CLASS 30.

Crockery, Earthenware, and Porcelain.

Ser. No. 258,287. PORCELAIN PRODUCTS, INC., Findlay, Ohio. Filed Dec. 1, 1927.

PP
TRADE INC MARK

The words "Trade Mark" are disclaimed apart from the mark as shown.
For Porcelain Ware; Crockery—Namely, Dishes, Plates, Cups, Saucers, Bowls, Jugs, Pitchers, Mugs, Jars, Crocks, Vases; Numerals and Letters for Signs and Decorations.
Claims use since Oct. 1, 1927.

CLASS 32.

Furniture and Upholstery.

Ser. No. 254,083. LYON METALLIC MANUFACTURING COMPANY, Aurora, Ill. Filed Aug. 29, 1927.

STEELART

For Metal Tables, Folding Tables, Filing Cabinets, Desks, Cupboards, Library Stacks, Counters, Chairs, Folding Chairs, Shelving, Book Shelving, Wardrobes, Lockers, Bookcases, and Metal Household Furniture.
Claims use since July 25, 1927.

Ser. No. 260,600. TUCKER DUCK AND RUBBER COMPANY, Fort Smith, Ark. Filed Jan. 24, 1928.



No claim is made to the representation of the goods apart from the mark shown.
For Folding Chairs.
Claims use since Jan. 3, 1928.

Ser. No. 266,053. SPEEDAUMAT ADDRESSING MACHINERY, INCORPORATED, Chicago, Ill. Filed May 7, 1928.

Speedaumat

For List Filing Cabinets, Cabinet Sections, and Stands.
Claims use since Sept. 30, 1920.

Ser. No. 268,740. MARSHALL & STEARNS CO., San Francisco, Calif. Filed June 27, 1928.

CLOS-A-DOR

For Beds, Couches, and Davenports.
Claims use since June 1, 1928.

CLASS 33.

Glassware.

Ser. No. 268,094. GRUEBY FAIENCE AND TILE COMPANY, Boston, Mass., and Philadelphia, Pa. Filed June 15, 1928. Under 10-year proviso.

GRUEBY

For Pottery and Faience.
Claims use since 1888.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 268,485. COKAL STOKER CORPORATION, Chicago, Ill. Filed June 22, 1928.

COAL-O-MATIC

For Stokers, Grates, and Automatic Coal Burners.
Claims use since May 28, 1928.

CLASS 35.

Belting, Hose, Machinery Packing, and Non-Metallic Tires.

Ser. No. 261,202. MOHAWK-MERRILL TIRE COMPANY, INC., St. Louis, Mo. Filed Feb. 4, 1928.



The drawing is lined to indicate the colors blue and orange. All the words and figures except the blue circle and "1000 Mile" are disclaimed except in combination with the mark as shown.
For Portable Automobile Tire and Tube Repair Kits.
Claims use since on or about Dec. 5, 1927.

CLASS 36.

Musical Instruments and Supplies.

Ser. No. 266,618. THE Q R S COMPANY, Chicago, Ill. Filed May 18, 1928.

Q·R·S

For Phonographs.
Claims use since Jan. 10, 1928.

CLASS 37.

Paper and Stationery.

Ser. No. 252,263. JASPER SIPES CO., Oklahoma City, Okla. Filed July 19, 1927.

JASPER SIPES
PREMIUM
SCHOOL SERIES



Applicant disclaims the words "Premium School Series" and the words "Premium Coupon 10c. Save This Coupon for Valuable Premiums" apart from the mark shown.
For Notebooks, Tablets, Loose-Leaf Binders, Loose-Leaf Fillers, Examination Paper, Drawing Paper, Music Paper, Art Paper, Theme Paper, and Penmanship Paper.
Claims use since Feb. 15, 1927.

Ser. No. 266,427. THE HOUSH COMPANY, INC., Boston, Mass. Filed May 15, 1928.

HARBURNE ALBUM

The word "Album" is disclaimed apart from the mark shown.
For Albums.
Claims use since May 9, 1928.

Ser. No. 267,416. THE HENDERSON LITHOGRAPHING COMPANY, Norwood, Ohio. Filed June 4, 1928.

Playone-Play all

For Tally Cards.
Claims use since May 15, 1928.

Ser. No. 267,509. THE PLEX DRY STENCIL CORPORATION, New York, N. Y. Filed June 5, 1928.

PLEX

For Dry Stencils.
Claims use since May 10, 1928.

CLASS 38.

Prints and Publications.

Ser. No. 258,117. THE DOW DRUG COMPANY, Cincinnati, Ohio. Filed Nov. 28, 1927.

DOW'S SUPERTONE

For Photographs and Photographic Prints.
Claims use since June 10, 1919.

Ser. No. 262,537. VIRGINIA DARE EXTRACT COMPANY, INC., Brooklyn, N. Y. Filed Mar. 2, 1928.

FLAVORGRAPH

For Educational Advertisements.
Claims use since Jan. 1, 1928.

Ser. No. 263,241. NELL VINICK, New York, N. Y. Filed Mar. 15, 1928.

LESSONS IN LOVELINESS
By
Nell Vinick

Applicant's name appearing on the drawing is in the handwriting of applicant.
For Magazine Articles Published from Time to Time.
Claims use since July 31, 1927.

Ser. No. 264,732. THE MOTOR BOAT PUBLISHING COMPANY, New York, N. Y. Filed Apr. 12, 1928.

The OUTBOARD MOTORBOAT



For Semimonthly Periodical.
Claims use since December, 1927.

Ser. No. 265,277. KOHLER & CHASE, doing business as Fun Method, San Francisco, Calif. Filed Apr. 23, 1928.

FUN METHOD

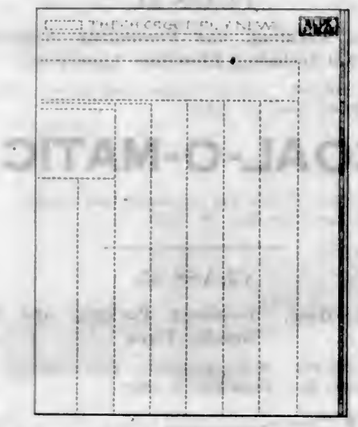
For Music Charts and Music Books Published from Time to Time.
Claims use since Mar. 1, 1927.

Ser. No. 266,154. STOODY COMPANY, Whittier, Calif. Filed May 9, 1928.

Fusion Facts
A STOODY PUBLICATION

The words "A Stoody Publication" are disclaimed.
For Monthly Publication.
Claims use since Oct. 15, 1927.

Ser. No. 266,581. THE CHICAGO DAILY NEWS, INC., Chicago, Ill. Filed May 18, 1928.



No claim is made to the words "The Chicago Daily News." This is not a disclaimer of any rights in the trade-mark covered by former registration No. 129,648. No claim is made to the diagrammatic representation in the drawing of a newspaper page apart from the mark shown. The mark is printed in blue, and the drawing is lined to indicate blue.
For Newspapers Including Foreign and Domestic News Items, Cartoons, Comic Strips, Contributions, Articles on Radio, on Investments, on Sports, on Bridge Lessons, Book Reviews, Short Stories, Serial Stories, and Illustrations for the Foregoing.
Claims use since Apr. 16, 1927.

Ser. No. 266,649. DELL PUBLISHING COMPANY, New York, N. Y. Filed May 19, 1928.

BATTLE BIRDS

For Magazine Published Bimonthly.
Claims use since Feb. 14, 1928.

Ser. No. 267,417. HOUSTON PRINTING COMPANY, Houston, Tex. Filed June 4, 1928.

Betty-Anne

For Section of Daily Publication Known as Houston Post-Dispatch.
Claims use since Oct. 3, 1926.

Ser. No. 267,661. MERCHANDISING PUBLISHING CORPORATION, St. Louis, Mo.; Chicago, Ill.; and New York, N. Y. Filed June 7, 1928.

MEAT MERCHANDISING

For Periodical.
Claims use since on or about October, 1924.

Ser. No. 267,686. AMATEUR CINEMA LEAGUE, INC., New York, N. Y. Filed June 8, 1928.

MOVIE MAKERS

For Monthly Magazine.
Claims use since June 1, 1928.

Ser. No. 267,826. ASSOCIATED PUBLISHING CO., INC., Los Angeles, Calif.; Chicago, Ill.; and New York, N. Y. Filed June 11, 1928.

Transportation

For Monthly Magazine.
Claims use since on or about May, 1927.

Ser. No. 267,980. MACFADDEN PUBLICATIONS INCORPORATED, New York, N. Y. Filed June 13, 1928.

STRANGE STORIES

For Monthly Magazine.
Claims use since June 5, 1928.

Ser. No. 268,158. FRANK H. HOLLMANN, doing business as American Pigeon Journal Co., Warrenton, Mo. Filed June 16, 1928.

AMERICAN PIGEON JOURNAL

For Periodical.
Claims use since on or about May, 1920.

Ser. No. 268,164. VICTOR LEONARD, St. Petersburg, Fla. Filed June 16, 1928.

NAMING THE BABY

For Cartoons.
Claims use since May 31, 1928.

Ser. No. 268,174. E. H. SCULL COMPANY, Chicago, Ill., and New York, N. Y. Filed June 16, 1928.

NET

For Periodical Publication.
Claims use since January, 1928.

Ser. No. 268,228. JACOBSEN, FORBES CORPORATION, New York, N. Y. Filed June 18, 1928.

SMART SHOES

For Illustrated Monthly Magazine.
Claims use since May 20, 1928.

Ser. No. 268,403. GEORGE O. SWANSON, Cleveland, Ohio. Filed June 20, 1928.

HIGH PRESSURE PETE

For Daily Comic Strip in Newspapers and Periodicals.
Claims use since July 1, 1927.

Ser. No. 268,462. PARIS COMET, INC., New York, N. Y. Filed June 21, 1928.

PARIS COMET

For Magazines Published Monthly.
Claims use since May, 1927.

Ser. No. 268,471. THE THOROUGHBRED RECORD COMPANY, Lexington, Ky. Filed June 21, 1928.

THE THOROUGHBRED RECORD

For Weekly Journal.
Claims use since May 27, 1916.

Ser. No. 268,544. HOUSTON PRINTING COMPANY, Houston, Tex. Filed June 23, 1928.

MARRIED BY RADIO!
BEING THE ADVENTURES OF "JUNE" BRIDE AND B'G GROOM" AT RADIO STATION KPRC

For Heading for an Annual Section of a Newspaper.
Claims use since May 31, 1928.

Ser. No. 248,545. HOUSTON PRINTING COMPANY, Houston, Tex. Filed June 23, 1928.

JILL'S PAIL O' NEWS

For Heading for a Newspaper Column.
Claims use since Feb. 26, 1928.

CLASS 39.

Clothing.

Ser. No. 247,774. MARTHA BROWN, Omaha, Nebr. Filed Apr. 21, 1927.

TRADE Martha Brown MARK

No claim is made to the words "Trade-Mark" apart from the mark as shown. The name "Martha Brown" as it appears on the drawing is in the handwriting of applicant.
For Aprons.
Claims use since Mar. 17, 1927.

Ser. No. 249,023. BERNARD S. ROLAND, New York, N. Y. Filed May 14, 1927.

SLEEPY TOWN
"Cut Out For Sleep"
&R

For Pajamas.
Claims use since Mar. 1, 1924.

Ser. No. 250,297. COLUMBIA HAT MANUFACTURING CO. INC., New York, N. Y. Filed June 10, 1927.

FLEXOFIT

For Men's and Boys' Straw Hats.
Claims use since Jan. 15, 1927.

Ser. No. 250,438. CAPLAIN & GOLDMAN, New York, N. Y. Filed June 13, 1927.

INCOMPARABLE EXCELLENCE
COSMOPOLITAN

Registration rights in the words "Incomparable Excellence" are disclaimed apart from the mark shown in the drawing.
For Men's Hats.
Claims use since about Jan. 1, 1925.

Ser. No. 255,308. JUNIORMODE SHOE CORPORATION, New York, N. Y. Filed Sept. 27, 1927.

JUNIORPEDE

For Shoes, Half Shoes, Slippers, and Pumps Made of Leather, Patent Leather, Silk, Satin, or Other Fabrics Composed of Natural or Artificial Fibres or of a Combination of Three Materials, for Adults, Misses, and Children.
Claims use since Apr. 22, 1927.

Ser. No. 255,309. JUNIORMODE SHOE CORPORATION, New York, N. Y. Filed Sept. 27, 1927.



For Shoes, Half Shoes, Slippers, and Pumps Made of Leather, Patent Leather, Silk, Satin, or Other Fabrics Composed of Natural or Artificial Fibres or of a Combination of Three Materials for Adults, Misses, and Children.
Claims use since Apr. 22, 1927.

Ser. No. 258,284. PENN LEATHER CO., Philadelphia, Pa. Filed Dec. 1, 1927.

TUR-TAN

No claim is made to the exclusive use of the word "Tan" apart from the mark shown in the drawing.
For Leather Soles, Taps, Tap Soles, or Half Soles.
Claims use since Nov. 22, 1927.

Ser. No. 258,708. PHILLIP GIRSON, doing business as Phillip Girson & Co., Chicago, Ill. Filed Dec. 9, 1927.

MOTOR KING

For Leather Gloves.
Claims use since Nov. 1, 1927.

Ser. No. 259,484. CHARLES A. EATON COMPANY, Brockton, Mass. Filed Dec. 30, 1927.

STERLING E WORKER

Applicant owns registration No. 203,269. The word "Sterling" is disclaimed apart from the other features of the mark shown in the drawing.
For Shoes of Leather, Rubber, or Fabric or Combinations of Such Materials.
Claims use since Dec. 10, 1927.

Ser. No. 259,909. JOSHUA HOYLE & SONS, LTD. INC., New York, N. Y. Filed Jan. 10, 1928.

HOYBRITE

For Wearing Apparel—Namely, Dress and Negligee Shirts for Men and Boys, Pajamas, Beach Robes, Negligees; Textile and Knitted Underwear for Men, Women, and Children; Coolie Coats, and Kimonos.
Claims use since January, 1927.

Ser. No. 259,912. JOSHUA HOYLE & SONS, LTD. INC., New York, N. Y. Filed Jan. 10, 1928.

Hoysheen

For Wearing Apparel—Namely, Dress and Negligee Shirts for Men and Boys, Pajamas, Beach Robes, Negligees; Textile and Knitted Underwear for Men, Women, and Children; Coolie Coats, and Kimonos.
Claims use since January, 1927.

Ser. No. 259,913. JOSHUA HOYLE & SONS, LTD. INC., New York, N. Y. Filed Jan. 10, 1928.

HOYLAKE

For Wearing Apparel—Namely, Dress and Negligee Shirts for Men and Boys, Pajamas, Beach Robes, Negligees; Textile and Knitted Underwear for Men, Women, and Children; Coolie Coats and Kimonos.
Claims use since January, 1927.

Ser. No. 261,395. NATHAN SHULMAN, Baltimore, Md. Filed Feb. 8, 1928.

NAT
THE KAP KING

Applicant disclaims exclusive right to the word "Kap."
For Caps Made of All Materials for Men and Boys.
Claims use since Jan. 1, 1922.

Ser. No. 261,706. ALEXANDER S. FEINGOLD, doing business as A. S. Feingold & Co., Philadelphia, Pa. Filed Feb. 15, 1928.

SYLKTONE

For Men's Dress and Negligee Shirts, Pajamas, and Lounging Robes.
Claims use since Apr. 9, 1926.

Ser. No. 262,093. A. S. KREIDER SHOE MANUFACTURING CO., Elizabethtown, Pa. Filed Feb. 23, 1928.



For Leather Shoes.
Claims use since Jan. 15, 1928.

Ser. No. 262,230. THE MARNE HAT MANUFACTURING COMPANY, Newark, N. J. Filed Feb. 25, 1928.

PARAMOUNT

For Men's Hats.
Claims use since Oct. 12, 1928.

Ser. No. 264,384. RICE-STIX DRY GOODS CO., St. Louis, Mo. Filed Apr. 5, 1928.

MIRACLE

For Men's, Youths' and Boys' Wearing Apparel—Namely, Neckties, Mufflers, Cravats, Stocks, Scarfs, and Reefers or Substantially Rectangular Half-Square Mufflers.
Claims use since Sept. 1, 1927.

Ser. No. 265,455. J. SCHOENEMAN, INCORPORATED, Baltimore, Md. Filed Apr. 26, 1928.

Royal Velour

No claim is made to the word "Velour" apart from the mark as shown in the drawing.
For Coats, Vests, Trousers, Knickerbockers, Topcoats and Overcoats for Men, Youths, and Boys.
Claims use since Sept. 15, 1927.

Ser. No. 266,235. SAM BERKOWITZ, doing business as Royal Blue Hosiery Co., New York, N. Y. Filed May 11, 1928.

Royal Blue

No claim is made to the word "Blue" apart from the mark substantially as shown.
For Hosiery.
Claims use since February, 1927.

Ser. No. 266,245. GROVES SHOE COMPANY, Chicago, Ill. Filed May 11, 1928.

STYLE STEP

No claim is made to the word "Style" apart from the mark shown in the drawing.
For High and Low Heeled Women's Novelty Footwear Consisting of Straps, Pumps, and Ties Constructed of Leather, Fabric, and Straw.
Claims use since Nov. 29, 1927.

Ser. No. 266,333. TYSON SHIRT CO., Norristown, Pa. Filed May 12, 1928.

SUPERSPUN

Applicant disclaims exclusive use of the word "Spun."
For Men's and Boys' Work, Dress, and Negligee Shirts, Pajamas, Nightshirts, Ladies' Waists, Men's and Boys' Textile Underwear, Men's and Boys' Suits of Two and Three Pieces.
Claims use since Mar. 1, 1927.

Ser. No. 266,338. STADIUM UNDERWEAR COMPANY, INC., Baltimore, Md. Filed May 12, 1928.

STADIUM

For Athletic Underwear, Nightshirts, and Pajamas Composed of Textile Fabric, All for Male and Female Wear.
Claims use since about August, 1915.

Ser. No. 266,385. MARTIN BROTHERS COMPANY, Minneapolis, Minn. Filed May 14, 1928.

Klad-Ezee
A Better One-Piece Suit

The words "A Better One-Piece Suit" are disclaimed apart from the mark shown.
For One-Piece Outer Garments—viz, Overalls and Coveralls for Men, Women, and Children, Recreation Suits for Men, Women, and Children, and Play Suits for Children.
Claims use since on or about May 1, 1928.

Ser. No. 266,760. SCULLY BROS. INC., Los Angeles, Calif. Filed May 21, 1928.

AIR MAIL

For Aviators' Helmets.
Claims use since May, 1927.

Ser. No. 266,893. C. B. SLATER COMPANY, South Braintree, Mass. Filed May 23, 1928.

EQUIPOISE
FOR RIGHT POSTURE

No claim is made to the expression "For Right Posture" except in association with the subject matter shown in the drawing.
For Boots and Shoes of Leather, Fabric, or Combinations Thereof.
Claims use since Feb. 16, 1928.

Ser. No. 267,057. I. JANOV-ABELES SHIRT CO., New York, N. Y. Filed May 26, 1928.

Fashion Lane

For Men's Dress Shirts and Negligee Shirts.
Claims use since Jan. 1, 1928.

Ser. No. 267,119. IKE GOODMAN, New York, N. Y. Filed May 28, 1928.

GoodBilt

Applicant disclaims exclusive use of the word "Good."
For Men's and Young Men's Suits and Overcoats.
Claims use since Feb. 3, 1928.

Ser. No. 267,252. THE H. W. GOSSARD CO., Chicago, Ill. Filed May 31, 1928.

Gossard SOLITAIRE

For Women's Combination Undergarments in the Nature of Corsets.
Claims use since May 25, 1928.

Ser. No. 267,260. KALON, INCORPORATED, Troy, N. Y. Filed May 31, 1928.

KALON

For Dress, Negligee, and Work Shirts.
Claims use since May 10, 1928.

Ser. No. 267,272. J. C. PENNY COMPANY, Wilmington, Del., and New York, N. Y. Filed May 31, 1928.

"Penco"

For Men's, Women's, and Children's Sweaters; Sweater Coats; and Men's, Women's, and Children's Hosiery.
Claims use since Apr. 13, 1928.

Ser. No. 267,315. ABRAHAM RADINSKY, doing business as Porto Rican Undergarment Co., New York, N. Y. Filed June 1, 1928.

Porto Rican Maid

For Ladies', Misses', and Children's Textile Underwear in One and Two Piece Garments.
Claims use since October, 1926.

Ser. No. 267,393. SHERROD SHIRT COMPANY, High Point, N. C. Filed June 2, 1928.



No claim is made to the words, "Brand" and "Work Shirts" apart from the mark shown in the accompanying drawing.
For Work Shirts.
Claims use since May 16, 1928.

Ser. No. 267,512. ROSEN-BRANDT, INC., New York, N. Y. Filed June 5, 1928.



Applicant disclaims the right to the exclusive use of the words "New Yorker" apart from the mark as shown in the drawing.
For Ladies' Hats.
Claims use since Apr. 19, 1927.

Ser. No. 267,538. CARSON PIRIE SCOTT & CO., Chicago, Ill. Filed June 6, 1928.



For Boys' Outer Suits and Overcoats.
Claims use since about Sept. 15, 1926.

Ser. No. 267,698. CARSON PIRIE SCOTT & CO., Chicago, Ill. Filed June 8, 1928.

ST JAMES

For Men's Collars.
Claims use since about May 25, 1927.

Ser. No. 267,943. MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 13, 1928.

Young Moderns

For Silk Hosiery.
Claims use since Oct. 1, 1927.

Ser. No. 267,983. MASSACHUSETTS KNITTING MILLS, Boston, Mass. Filed June 13, 1928.

Firefly

For Hosiery.
Claims use since Mar. 1, 1928.

Ser. No. 268,004. SUPERIOR HAT CO., St. Louis, Mo. Filed June 13, 1928.

EX-RAY

For Hats for Use by Men, Women, Boys, and Children.
Claims use since June 1, 1927.

Ser. No. 268,026. CARSON PIRIE SCOTT & CO., Chicago, Ill. Filed June 14, 1928.

WEAR WORTH

For Hosiery.
Claims use since about June 20, 1926.

Ser. No. 268,039. HORNSTEIN-NEWMAN COMPANY, Gallon, Ohio. Filed June 14, 1928.

STRATBURY

For Men's and Young Men's Overcoats and Topcoats and Young Men's Coats, Vests, and Trousers.
Claims use since Mar. 1, 1928.

Ser. No. 268,099. MARION R. JONES, Framingham, Mass. Filed June 15, 1928.



No claim is made to the word "Dress" apart from the mark shown.
For Ladies' and Misses' Dresses.
Claims use since May 9, 1928.

Ser. No. 268,108. MOLLIE MAYERS, INC., New York, N. Y. Filed June 15, 1928.

Lurkee Girl

For Corsets, Brassières, and Corsetlike Undergarments.
Claims use since December, 1927.

Ser. No. 268,134. BEAR BRAND HOSIERY CO., Chicago, Ill. Filed June 16, 1928.

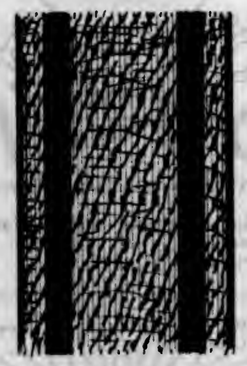
ENCHANTRESS

For Hosiery.
Claims use since June 6, 1928.

CLASS 40.

Fancy Goods, Furnishings, and Notions.

Ser. No. 261,239. CHESTERMAN-LEELAND COMPANY, Philadelphia, Pa. Filed Feb. 6, 1928.



Applicant disclaims exclusive right to the use of the pictorial representation of the goods per se. The mark consists of two parallel stripes woven directly into the webbing. The parallel stripes appearing upon the drawing are lavender in color.
For Elastic Webbing.
Claims use since about 1917.

Ser. No. 267,507. THE PATENT BUTTON COMPANY, Waterbury, Conn. Filed June 5, 1928.

Flexo

For Buttons of Nonprecious Metal.
Claims use since July 25, 1925.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 237,990. G. H. STEGE JR. CO. INC., New York, N. Y. Filed Sept. 30, 1926.



The word "Dimity" is disclaimed apart from the mark as shown.
For Cotton Goods in the Piece.
Claims use since on or about Sept. 1, 1926.

Ser. No. 254,900. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Sept. 19, 1927.

IMPERIAL

For Blankets Made of Textile Fabrics.
Claims use since Jan. 1, 1908.

Ser. No. 261,543. A. ROBERT WIELAND, Auerbach, near Chemnitz, Germany. Filed Feb. 10, 1928.



For Woven and Knitted Fabrics of Wool, Cotton, Silk, and Artificial Silk in the Piece.
Claims use since about June, 1926.

Ser. No. 263,327. MANUFACTURE FRANCAISE DE TAPIS ET COUVERTURES, Beauvais, France. Filed Mar. 17, 1928.



The word "Lainé" appearing as part of the mark is the surname of the applicant's predecessor in business Ed. Lainé & Cie., and also that of one of the parties filing the original application for registration of this mark in France.

For Coverlets of Wool, Cotton, or Other Textiles, Tapestries in the Nature of Upholsteries for Furniture, Bed Rugs, and Travellers' Rugs of Wool.

Claims use since July 18, 1927.

Ser. No. 263,636. BOOTT MILLS, Lowell, Mass. Filed Mar. 23, 1928.



No registration rights are claimed for the words "Genuine Hardanger" apart from the mark as shown in the drawing.

For Cotton Cloth of Open Texture in the Piece.

Claims use since Feb. 14, 1928.

Ser. No. 263,974. ALBERT D. SMITH & CO., New York, N. Y. Filed Mar. 29, 1928. Under 10-year proviso.

ALBERT HOLLAND

For Cotton Piece Goods and Shade Cloth.

Claims use since August, 1890.

Ser. No. 264,756. JOHN G. HARDY LIMITED, London, England. Filed Apr. 13, 1928.



For Cloths and Stuffs of Wool, Worsted, or Hair in the Piece.

Claims use since Feb. 24, 1928.

Ser. No. 266,503. WINDHAM MANUFACTURING CO., South Boston, Mass. Filed May 16, 1928.



The word "Cloth" is disclaimed apart from the mark shown.

For Piece Goods of Cotton, Silk, Wool, Linen, Rayon, and Paper Fabrics.

Claims use since Mar. 15, 1927.

Ser. No. 267,319. ROUBAIX MILLS, INC., New York, N. Y. Filed June 1, 1928.

Roubelle

For Piece Goods Made of Wool.

Claims use since May 17, 1928.

Ser. No. 267,669. RUBY LANE, INC., New York, N. Y. Filed June 7, 1928.

"RUBILANE"

For Curtains of Silk, Cotton, or Rayon Fabric; Table Linens and Fancy Linens—Namely, Table Scarfs and Tablecloths of Linen, Cotton or Rayon Trimmed with Lace or Embroidery, and Doilies of Textile Fabric of Linen, Cotton, or Rayon Trimmed with Lace or Embroidery, Bedspreads, Towels, Sheets, and Pillowcases.

Claims use since about May 21, 1928.

Ser. No. 267,794. PENDLETON WOOLEN MILLS, Portland, Oreg. Filed June 9, 1928.

Rainier Park

For Woolen Blankets.

Claims use since Feb. 1, 1928.

Ser. No. 268,691. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed June 26, 1928.

VELPEAU

For Piece Goods Made of Silk, Cotton, and Wool.

Claims use since June 15, 1928.

Ser. No. 268,692. HENRY GLASS & CO., New York, N. Y. Filed June 26, 1928.

DRENDA

For Cotton Piece Goods; Combination Silk and Cotton Piece Goods, Combination of Artificial Silk and Cotton Piece Goods.

Claims use since May 9, 1928.

Ser. No. 268,724. WILLARD, COLBERT & GILES, New York, N. Y. Filed June 26, 1928.

WILCOG

For Silk Piece Goods.

Claims use since Jan. 1, 1926.

Ser. No. 268,846. CAPITOL SILK CORPORATION, New York, N. Y. Filed June 29, 1928.



For Silks in the Piece.

Claims use since Feb. 1, 1928.

CLASS 43.

Thread and Yarn.

Ser. No. 268,276. DU PONT RAYON COMPANY, Buffalo, N. Y. Filed June 19, 1928.

DU PONT RAYON

SUPER-EXTRA

No claim is made to the words "Du Pont, Rayon," and "Extra" apart from the mark shown.

For Cellulose-Acetate Yarns, Threads, and Filaments.

Claims use since Apr. 10, 1928.

Ser. No. 268,277. DU PONT RAYON COMPANY, Buffalo, N. Y. Filed June 19, 1928.

DU PONT RAYON

STANDARD

No claim is made to the words "Du Pont, Rayon," and "Standard" apart from the mark shown. Applicant is owner of registrations 207,203 and 221,766, in Class 1, embodying the name "Du Pont."

For Cellulose-Acetate Yarns, Threads, and Filaments.

Claims use since Apr. 10, 1928.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 265,992. SHOECRAFT SHOP, INC., New York, N. Y. Filed May 5, 1928.

SHOECRAFT

For Arch Supports.

Claims use since 1914.

Ser. No. 267,300. ETABLISSEMENTS TEXTILES DE PFETTERHOUSE, Pfetterhouse, France. Filed June 1, 1928.

SOMOS

For Elastic Supporters, Bandages, Belts, Elastic Stockings, Bands, Umbilical and Orthopedic Belts, Elastic Tissue, All Used for Therapeutic or Medical Purposes.

Claims use since May 15, 1927.

Ser. No. 267,459. PRATT-MALLORY COMPANY, Sioux City, Iowa. Filed June 4, 1928.

"OF COURSE"

MALLORY'S

The word "Mallory's" forms a part of the registration sought only in association with the other features of the mark shown in the drawing.

For Toothpicks.

Claims use since Mar. 8, 1926.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 262,975. REGINALD JAMES STRANGER, doing business as Strangers Ltd., Southampton, England. Filed Mar. 10, 1928.

OR-LEM

For Nonalcoholic Beverages Made from Citrus-Fruit Juices and Sold as Soft Drinks.

Claims use since Sept. 19, 1921.

Ser. No. 263,995. UNITED GRAPE PRODUCTS, INC., Buffalo, N. Y. Filed Mar. 29, 1928.

DU BELLE

For Grape Juice.

Claims use since about May 1, 1925.

Ser. No. 266,265. PALE MOON COMPANY OF AMERICA, Philadelphia, Pa. Filed May 11, 1928.



Applicant claims Certificate 215,242, registered July 13, 1926. Applicant disclaims the words "A Good Mixer" apart from the mark as shown in the drawing.

For Nonalcoholic, Noncereal, Maltless Beverages Sold as a Soft Drink and Syrup for Making the Same.

Claims use since Feb. 22, 1928.

Ser. No. 266,430. KENTUCKY NIP CORPORATION, New York, N. Y. Filed May 15, 1928.



No claim is made to the word "Julep" apart from the mark shown.

For Nonalcoholic, Noncereal, Maltless Carbonated Beverage Sold as a Soft Drink.

Claims use since Apr. 28, 1928.

Ser. No. 266,431. KENTUCKY NIP CORPORATION, New York, N. Y. Filed May 15, 1928.



No claim is made to the exclusive use of the word "Julep" apart from the mark as shown in the drawing.

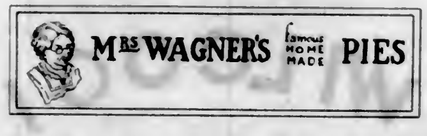
For Nonalcoholic, Noncereal, Maltless Carbonated Beverage Sold as a Soft Drink.

Claims use since Apr. 28, 1928.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 229,982. PIE BAKERIES OF AMERICA, INC., Newark, N. J. Filed Apr. 10, 1926.



The picture shown is fanciful. The phrase "Famous Home-Made Pies" is disclaimed apart from the mark shown on drawing.

For Pies.

Claims use since Feb. 15, 1926.

Ser. No. 231,563. MRS. L. M. PETERSON & CO., INC., New York and Brooklyn, N. Y. Filed May 13, 1926.

EATSUM

For Biscuits, Crackers, or Wafers.

Claims use since about Nov. 29, 1904.

Ser. No. 231,564. MRS. L. M. PETERSON & CO., INC., New York and Brooklyn, N. Y. Filed May 13, 1926.



No claim is made to the representation of a biscuit apart from the mark shown.

For Biscuits, Crackers, or Wafers.

Claims use since about Nov. 29, 1904.

Ser. No. 247,176. EXCELLENT-GOODY SHOP, doing business as The Goody Shop, New York, N. Y. Filed Apr. 9, 1927.

SPLENDOR

For Candy.

Claims use since 1922.

Ser. No. 251,223. FANNY FARMER CANDY SHOPS, INC., Rochester, N. Y. Filed June 28, 1927.



The trade-mark comprises the portrait of Fanny Farmer, deceased.

For Candy.

Claims use since Apr. 12, 1919.

Ser. No. 254,854. LIBBY, MCNEILL & LIBBY, Chicago, Ill. Filed Sept. 17, 1927.



For Bouillon Cubes, Beef Extract, and Fresh, Prepared, Pickled, Dried, and Canned Beef, Veal, Pork, Mutton, and Poultry; Beef Stew, Chop Suey, Chile Con Carne, Tamales, and Meat Spread, a Meat Product Used as a Spread for Sandwiches; Canned and Bulk Salmon and Salmon Paste, Canned Soups; Canned, Preserved, and Dried Fruits, Vegetables, and Berries; Canned Pineapple Juice and Canned Sauerkraut Juice; Canned, Bottled, and Bulk Mustard; Catsup, Tomato Sauce, Chili Sauce, Sweet Relish, Sauerkraut, Mayonnaise, Fruit Butters, Jams and Marmalades, Mincemeat, Plum Puddings, Olives, Canned Pork and Beans, and Condensed and Evaporated Milk.

Claims use since 1897.

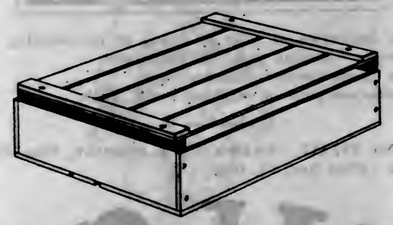
Ser. No. 255,665. MOUNTAIN VIEW FRUIT ASSOCIATION, Upland, Calif. Filed Oct. 5, 1927.

BISON

For Fresh Citrous Fruits.

Claims use since Sept. 10, 1927.

Ser. No. 255,818. PRESTON MORRIS, Escalon, Calif. Filed Oct. 8, 1927.



The mark consists of a red cleat which is applied to the goods by interposing the same between the lid of the crate or box in which the goods are packed and the end board of the crate or box, the shading on the drawing indicating the color red.

For Fresh Grapes.

Claims use since on or about Aug. 1, 1927.

Ser. No. 255,860. NORRIS GRAIN COMPANY, Chicago, Ill. Filed Oct. 10, 1927.

"CARNATION"

For Oats Used as Feed for Stock.
Claims use since about Jan. 1, 1912.

Ser. No. 256,276. BALFOUR, WILLIAMSON & CO., New York, N. Y. Filed Oct. 19, 1927.

TB

For Green Coffee.
Claims use since June, 1917.

Ser. No. 256,277. BALFOUR, WILLIAMSON & CO., New York, N. Y. Filed Oct. 19, 1927.

T B L

For Green Coffee.
Claims use since July, 1917.

Ser. No. 256,619. FRANK H. FLEER CORPORATION, Philadelphia, Pa. Filed Oct. 26, 1927.



The indication of color by lining of the drawing and the words "Chewing Gum" are disclaimed.
For Candy-Covered Chewing Gum.
Claims use since on or about Jan. 7, 1918.

Ser. No. 257,817. SILBERNAGEL & COMPANY, Pine Bluff, Ark. Filed Nov. 19, 1927.

SILCO

For Hen Feed, All-Grain Feed, Heavy Grain Feed, Mincemeat, Rolled Oats, and Canned Corn.
Claims use since 1921.

Ser. No. 262,948. HARRY I. BEDNER, doing business as Quaker Fresh Fish Fillet Co., Philadelphia, Pa. Filed Mar. 10, 1928.

QUAKER BRAND



No claim is made to the pictorial representation of a fish or the word "Brand" apart from the mark shown in the drawing.
For Fresh Fish Fillets.
Claims use since Oct. 1, 1927.

Ser. No. 262,971. RIDENOUR-BAKER GROCERY COMPANY, Kansas City, Mo. Filed Mar. 10, 1928.

PUNCH

For Canned Fruits, Vinegar, Canned Vegetables, Canned Shrimp and Oysters, Condensed Milk, Cream Cheese, Coffee, Tea, Cane Syrup, Buckwheat Flour, Pancake Flour, White Oats, Tapioca, Sage, Sago, Rice, Barley, Farina, Spaghetti, Salted Nut Meats, Dried Fruits, and Canned Pimientos.
Claims use since Dec. 1, 1899.

Ser. No. 263,207. THE FARWELL & RHINES CO., INC., Watertown, N. Y. Filed Mar. 15, 1928.

FARWELL & RHINES

CRISS-CROSS BRAND

Quick
CAKE AND
WAFFLE FLOUR

Applicant makes no claim to the words "Brand" and "Quick," and "Cake and Waffle Flour" separately considered, but only in the association illustrated on the drawing.
For Self-Rising Wheat Flour.
Claims use since Mar. 1, 1928.

Ser. No. 263,767. KENTUCKY VEGETABLE GROWERS ASSOCIATION, INC., Louisville, Ky. Filed Mar. 26, 1928.

KENTUCKY DERBY BRAND

The word "Brand" is disclaimed apart from the other features of the mark shown in the drawing.
For Fresh Vegetables—Namely, Asparagus, Dry Beans, Green Beans, Beets, Cabbage, Carrots, Cauliflower, Celery, Corn, Cucumbers, Eggplants, Garlic, Lettuce, Onions, Peas, Irish Potatoes, Sweet Potatoes, Horse-Radish, Peppers, Spinach, Tomatoes, Radishes, Parsley, Parsnips, Turnips, Pumpkin, Rutabaga, Squash, Okra, Kale, and Sprouts.
Claims use since Apr. 1, 1925.

Ser. No. 264,880. GOODRICH BAKERIES, INCORPORATED, Mount Vernon, N. Y. Filed Apr. 16, 1928.

GOOD RICH

No claim is made to the exclusive use of either the words "Good" or "Rich," but only to the joint use of the words constituting the word or name "Goodrich" as distinctively displayed in the mark shown.
For Pies.
Claims use since October, 1926.

Ser. No. 265,489. MEEKER SUGAR REFINING COMPANY, Chicago, Ill., and Meeker, La. Filed Apr. 27, 1928.

SUNSHINE

For Sugar-Cane Food Syrup.
Claims use since Oct. 1, 1927.

Ser. No. 265,578. JACOB J. SHEKTER, doing business as Beaver Produce Company, Portland, Oreg. Filed Apr. 28, 1928.



No claim is made to the word "Brand" and the words "Creamery Butter & Eggs" apart from the mark as shown on the drawing.
For Butter and Eggs.
Claims use since Mar. 19, 1912.

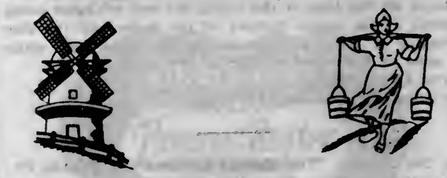
Ser. No. 265,722. FEDERAL TEA COMPANY, INC., Baltimore, Md. Filed May 1, 1928.

Cash-Value

For Coffee.
Claims use since Feb. 15, 1921.

Ser. No. 265,789. GILES-CUMMINGS COMPANY, INC., Boston, Mass. Filed May 2, 1928.

Netherland



No registration rights are claimed to the word "Netherland" apart from the mark shown in the drawing.
For Butter.
Claims use since February, 1928.

Ser. No. 265,939. JUSTIN E. AUBRY, doing business as Aubrey's Bakery, Pittsfield, Mass. Filed May 5, 1928.



Applicant disclaims the descriptive term "It's Good" apart from the mark as shown on the drawing. The picture is fanciful.
For Bread, Cake, and Pastry.
Claims use since Feb. 1, 1928.

Ser. No. 266,010. ALBERT MILLER & COMPANY, Chicago, Ill. Filed May 7, 1928.



The mark comprises red and blue triangular markings printed on the face of the sacks, the red triangles being located at the upper corners of the sacks and the blue triangles at the lower corners of the sacks. No claim is made to the representation of the sack.

For Fresh Potatoes.

Claims use since Apr. 11, 1928.

Ser. No. 266,033. THE KROGER GROCERY AND BAKING CO., Cincinnati, Ohio. Filed May 7, 1928.

Country Club

For Spiced Boneless Pig's Feet and Pickled Sliced Tongue.

Claims use since Mar. 1, 1928.

Ser. No. 266,468. INDEPENDENT MACARONI CO. INC., doing business as Independent Macaroni M'f'g. Co., Mount Vernon, N. Y. Filed May 16, 1928.

RED SEAL

For Macaroni.

Claims use since May 10, 1928.

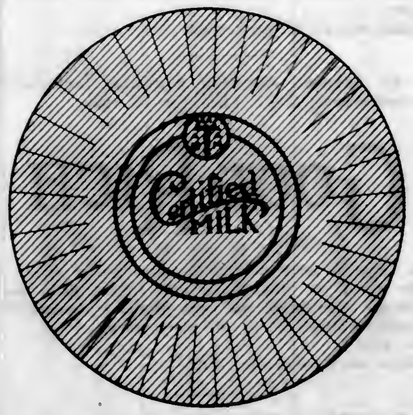
Ser. No. 266,654. FLORIDA FRUIT CANNERS, INC., Frostproof, Fla. Filed May 19, 1928.

U-SERV-IT

For Canned Grapefruit.

Claims use since Sept. 14, 1927.

Ser. No. 267,289. AMERICAN ASSOCIATION OF MEDICAL MILK COMMISSIONS, INC., also doing business as Certified Milk Producers' Association of America, Inc., Brooklyn, N. Y. Filed June 1, 1928.



The drawing is lined for the color tan. No claim is made to the representation of a tan label and/or the words "Certified Milk" apart from the mark shown.

For Fresh or Raw Milk and Cream.

Claims use since Jan. 2, 1926.

Ser. No. 267,308. MASON, AU & MAGENHEIMER CONFECTIONERY MANUFACTURING COMPANY, Brooklyn, N. Y. Filed June 1 1928.

CHOCOLATE PEAKS COCOANUT

The lining of the printed matter on the drawing represents the color blue. The trade-mark consists in the ensemble produced by a silver-tinted foil background having printed thereon the word "Peaks" in prominent type, with the word "Chocolate" above the word "Peaks" in less prominent type. Applicant disclaims the representation of a wrap apart from the mark as shown and also disclaims exclusive use of the words "Chocolate" and "Cocoanut" apart from the mark shown.

For Candy.

Claims use since about January, 1918.

Ser. No. 267,324. SAMUEL H. STONE, doing business as Stone Malt Company, Columbus, Ohio. Filed June 1, 1928.

Our Meister MALT SYRUP

Exclusive use is disclaimed of the words "Malt Syrup" except in connection with the remaining features of the mark.

For Malt Syrups.

Claims use since May 1, 1925.

Ser. No. 267,390. REICHARDT COCOA & CHOCOLATE CO., INC., New York, N. Y., and New Brunswick, N. J. Filed June 2, 1928.

VITONE

For Concentrated Cocoa Food to be Taken in Beverage Form Having Vitamin and Essential Digestive and Dietetic Properties.

Claims use since Apr. 9, 1928.

Ser. No. 267,483. NATHAN BUXBAUM, Brooklyn, N. Y. Filed June 5, 1928.



Applicant disclaims the pictorial representation of a banana and the word "Fruit" apart from the mark shown on the drawing. The lining is for the color yellow.

For Frosted, Sliced, and Crushed and Coated Fruits.

Claims use since Feb. 20, 1928.

Ser. No. 267,787. OTOS FOOD PRODUCTS CO., also doing business as Hamburg Canning Company, Nebraska City, Nebr. Filed June 9, 1928.

LONE BROOK

For Canned Vegetables.

Claims use since June 15, 1924.

Ser. No. 267,951. HARRY A. GORDHAMER, doing business as Minnetonka Creamery Co., Minneapolis, Minn. Filed June 13, 1928.



The lining of drawing indicates the colors blue, green, yellow, and red.

For Creamery Butter.

Claims use since Apr. 23, 1928.

Ser. No. 268,454. MILES F. LIVERMORE, Brazil, Ind. Filed June 21, 1928.



The descriptive words "Nonstik" and "Peanut Butter" are disclaimed apart from the mark shown in the drawing.

For Peanut Butter.

Claims use since July, 1927.

Ser. No. 268,502. LAKE CHARLES RICE MILLING COMPANY OF LOUISIANA, INC., Lake Charles, La. Filed June 22, 1928.

EL GALLO



For Rice.

Claims use since July, 1927.

Ser. No. 268,614. JEWEL TEA CO., INC., Chicago, Ill. Filed June 25, 1928.



For Coffee.
Claims use since Sept. 19, 1927.

Ser. No. 268,615. KELLEY-CLARKE CO., Seattle, Wash. Filed June 25, 1928.



For Canned Fish—Namely, Canned Salmon.
Claims use since Apr. 1, 1904.

Ser. No. 268,616. KRAFT-PHENIX CHEESE COMPANY, Chicago, Ill. Filed June 25, 1928.

KRACO

For Powdered Whey Solid.
Claims use since about Mar. 1, 1928.

Ser. No. 268,656. VONEIFF-DRAYER CO., Baltimore, Md. Filed June 25, 1928.

Jay-Vee

For Candy.
Claims use since Apr. 6, 1926.

Ser. No. 268,675. LILL CANNON, Bowersville, Ga. Filed June 26, 1928.

MA'S ANTE-BELLUM

For Bread.
Claims use since on or about Apr. 14, 1928.

Ser. No. 268,789. KELLEY-CLARKE CO., Seattle, Wash. Filed June 28, 1928.



For Canned Fish—Namely, Canned Salmon.
Claims use since Apr. 1, 1904.

Ser. No. 268,790. KELLEY-CLARKE CO., Seattle, Wash. Filed June 28, 1928.



For Canned Fish—Namely, Canned Salmon.
Claims use since June 1, 1902.

Ser. No. 268,791. KELLEY-CLARKE CO., Seattle, Wash. Filed June 28, 1928.



For Canned Fish—Namely, Canned Salmon.
Claims use since Apr. 1, 1902.

CLASS 49.

Distilled Alcoholic Liquors.

Ser. No. 263,739. AMERICAN SOLVENTS & CHEMICAL CORPORATION, New York, N. Y. Filed Mar. 26, 1928.



For Ethyl Alcoholic Liquors—Namely, Ethyl Alcohol, Pure Commercial Alcohol, and Anhydrous Alcohol.
Claims use since about Sept. 1, 1926.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 267,053. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis. Filed May 26, 1928.

Jamesway

For Name Plates; Poultry Equipment—Namely, Waterers, Feeders, Poultry Nests and Trap Attachments Therefor, Oat Sprouters Comprising Pans and a Framework Support Therefor, Incubators Equipped for Heating by Coal, Fuel, and Oil.
Claims use since Mar. 1, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

AUGUST 7, 1928.

245,016. PREPARATION FOR USE IN THE TREATMENT OF COUGHS, COLDS, BRONCHITIS, ASTHMA, CATARRH, ALL IRRITATIONS OF THE THROAT AND LUNGS, CROUP, AND FOR REGULATING THE BOWELS AND CORRECTING ALL IRREGULARITIES OF THE STOMACH, LIVER, AND KIDNEYS. HOLMES & HOLMES, Dilworth, Okla.
Filed April 17, 1928. Serial No. 264,986. PUBLISHED MAY 29, 1928. Class 6.

245,017. MACHINES FOR REMOVING GREASE, DIRT, PAINT, VARNISH, OR ANY OTHER DELETERIOUS ACCUMULATIONS FROM THE SURFACE OF ANY ARTICLE OR STRUCTURE BY MEANS OF A HOT ELASTIC-FLUID SPRAY. TRIDEX EQUIPMENT COMPANY INC., Dallas, Tex.
Filed April 16, 1928. Serial No. 264,926. PUBLISHED MAY 29, 1928. Class 23.

245,018. AUTOMOBILE TIRES AND TUBES. THE COOPER CORPORATION, Cincinnati, Ohio.
Filed April 14, 1928. Serial No. 264,811. PUBLISHED MAY 29, 1928. Class 35.

245,019. ROASTED COFFEE. RICH-MAID MANUFACTURING COMPANY, INCORPORATED, Richmond, Va.
Filed April 13, 1928. Serial No. 264,778. PUBLISHED MAY 29, 1928. Class 46.

245,020. UPHOLSTERED FURNITURE—NAMELY, DAVENPORTS, LIVING-ROOM SUITES, COXWELL CHAIRS, OTTOMANS, WING CHAIRS, AND CLUB CHAIRS; BEDROOM FURNITURE—NAMELY, BEDS, DRESSERS, VANITIES, CHESTS, BEDROOM CHAIRS, NIGHT TABLES, DINING-ROOM TABLES, DINING-ROOM CHAIRS, BUFFETS, SERVERS, AND CHINA CABINETS. HARTMAN FURNITURE AND CARPET CO., Chicago, Ill.
Filed April 9, 1928. Serial No. 264,579. PUBLISHED MAY 29, 1928. Class 32.

245,021. DOMESTIC MEASURING CUPS. EDWARD KATZINGER COMPANY, Chicago, Ill.
Filed April 9, 1928. Serial No. 264,570. PUBLISHED MAY 29, 1928. Class 26.

245,022. BED SPRINGS. THE CLEVELAND METAL BED CO., Cleveland, Ohio.
Filed April 5, 1928. Serial No. 264,355. PUBLISHED MAY 29, 1928. Class 32.

245,023. BED SPRINGS. THE CLEVELAND METAL BED CO., Cleveland, Ohio.
Filed April 5, 1928. Serial No. 264,354. PUBLISHED MAY 29, 1928. Class 32.

245,024. BED SPRINGS. THE CLEVELAND METAL BED CO., Cleveland, Ohio.
Filed April 5, 1928. Serial No. 264,353. PUBLISHED MAY 29, 1928. Class 32.

245,025. BED SPRINGS. THE CLEVELAND METAL BED CO., Cleveland, Ohio.
Filed April 5, 1928. Serial No. 264,352. PUBLISHED MAY 29, 1928. Class 32.

245,026. CIGARS AND CIGARETTES. THE JORAN TOBACCO COMPANY, Washington, D. C.
Filed April 3, 1928. Serial No. 264,236. PUBLISHED MAY 29, 1928. Class 17.

245,027. AUTOMOBILE TIRES OF RUBBER AND FABRIC. AJAX RUBBER COMPANY, INC., Racine, Wis.
Filed April 3, 1928. Serial No. 264,219. PUBLISHED MAY 29, 1928. Class 35.

245,028. DRESSED POULTRY. ENID POULTRY & EGG COMPANY, INC., Enid, Okla.
Filed April 2, 1928. Serial No. 264,158. PUBLISHED MAY 29, 1928. Class 46.

245,029. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, ETC. CARLOVA, INC., doing business as Jane Wilson Adams, New York, N. Y.
Filed March 31, 1928. Serial No. 264,080. PUBLISHED MAY 29, 1928. Class 6.

245,030. CAMERA TRIPODS. BURLEIGH BROOKS, New York, N. Y.
Filed March 31, 1928. Serial No. 264,072. PUBLISHED MAY 29, 1928. Class 26.

245,031. NONFREEZING FLUID FOR AUTOMOBILE RADIATORS. NOURSE OIL COMPANY, Kansas City, Kans.
Filed April 18, 1928. Serial No. 265,061. PUBLISHED MAY 29, 1928. Class 6.

245,032. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS; SIRUPS, EXTRACTS, AND CONCENTRATES FOR MAKING THE SAME. MYER BOTTLING CO., INC., New York, N. Y.
Filed March 30, 1928. Serial No. 264,042. PUBLISHED MAY 29, 1928. Class 45.

245,033. CANDY. W. F. SCHRAFFT & SONS CORPORATION, Boston, Mass.
Filed March 30, 1928. Serial No. 264,052. PUBLISHED MAY 29, 1928. Class 46.

245,034. LINIMENT FOR EXTERNAL USE IN THE MASSAGING OF ACHING JOINTS AND BODY SWELLINGS. PETER L. MAVRELIS, doing business at The Mavreline Company, Waterloo, Iowa.
Filed March 30, 1928. Serial No. 264,034. PUBLISHED MAY 29, 1928. Class 6.

245,035. MACHINES FOR SETTING GLAZIERS' POINTS. HUBBARD & MCCLARY, Windsor, Vt.
Filed March 30, 1928. Serial No. 264,030. PUBLISHED MAY 29, 1928. Class 23.

245,036. PUBLICATION TO BE SOLD TO AND CIRCULATED BY FINANCIAL INSTITUTIONS AS AN ADVERTISEMENT. INVESTMENT ADVERTISING COMPANY, Chicago, Ill.
Filed January 7, 1928. Serial No. 259,805. PUBLISHED MAY 29, 1928. Class 38.

245,037. GLOVES MADE OF LEATHER. STERN BROTHERS, New York, N. Y.
Filed January 3, 1928. Serial No. 259,655. PUBLISHED APRIL 10, 1928. Class 39.

245,038. HATS, CAPS, SUITS, COATS, NECKTIES, ETC. HIXSIE & CO. INC., New York, N. Y.
Filed December 31, 1927. Serial No. 259,556. PUBLISHED APRIL 17, 1928. Class 39.

245,039. GLOVES OF LEATHER. LA MAROQUINERIE NATIONALE, Soc. Anb, Brussels, Belgium.
Filed December 30, 1927. Serial No. 259,497. PUBLISHED APRIL 17, 1928. Class 39.

245,040. TOILET PAPER. U. S. PAPER COMPANY, Los Angeles, Calif.
Filed December 27, 1927. Serial No. 259,378. PUBLISHED MAY 15, 1928. Class 37.

245,041. TISSUE PAPER FOR REMOVING COLD CREAM. POND'S EXTRACT COMPANY, New York, N. Y.
Filed December 28, 1927. Serial No. 259,420. PUBLISHED MAY 29, 1928. Class 37.

245,042. LEATHER SHANKS AND COMBINED SHANKS OF LEATHER AND METAL FOR USE IN SHOES. FRANK G. DELBON, Brooklyn, N. Y.
Filed December 8, 1927. Serial No. 258,624. PUBLISHED APRIL 17, 1928. Class 39.

245,043. HOSIERY. ARTCRAFT SILK HOSIERY MILLS, INC., Philadelphia, Pa.
Filed December 8, 1927. Serial No. 258,395. PUBLISHED APRIL 10, 1928. Class 39.

245,044. PAPER NAPKINS, PAPER TOWELS, AND TOILET PAPER. PARAMOUNT SPECIALTY COMPANY, Springfield, Mass.
Filed December 1, 1927. Serial No. 258,275. PUBLISHED MAY 15, 1928. Class 37.

245,045. OUTER VESTS FOR HUNTING, GOLFING, AND SPORT WEAR AND NEGLIGEE AND SPORT SHIRTS. A. J. IZOD, LIMITED, London, England.
Filed November 15, 1927. Serial No. 257,582. PUBLISHED APRIL 17, 1928. Class 39.

245,046. WOMEN'S AND MISSES' COATS, HATS, SUITS, SCARFS, NIGHTGOWNS, AND PYJAMAS; MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY AND KNITTED UNDERWEAR. ILONA K. GROSS, doing business as Ilona Mfg. Co., San Francisco, Calif.
Filed November 11, 1927. Serial No. 257,408. PUBLISHED APRIL 17, 1928. Class 39.

245,047. SECTION OR DEPARTMENT OF A MAGAZINE. MANAGEMENT MAGAZINES, INC., Chicago, Ill.
Filed January 31, 1928. Serial No. 260,951. PUBLISHED MAY 29, 1928. Class 38.

245,048. MEN'S SUITS. THE GRAFT COMPANY, INC., New York, N. Y.
Filed January 31, 1928. Serial No. 260,942. PUBLISHED APRIL 17, 1928. Class 39.

245,049. DESK STAND HAVING POCKETS OR RECEPTACLE FOR PENS, PAPER CLIPS, CALENDAR AND DATA CARDS, ETC. HERMAN A. FEIGELMAN, doing business as Multi-Products Company, Paterson, N. J.
Filed January 30, 1928. Serial No. 260,884. PUBLISHED MAY 15, 1928. Class 37.

245,050. HOSE PROTECTORS TO BE WORN OVER THE STOCKINGS. NORMAN H. LAKE, Boston, Mass.
Filed January 25, 1928. Serial No. 260,638. PUBLISHED APRIL 10, 1928. Class 39.

245,051. LIQUID POLISH FOR AUTOMOBILE BODIES AND FURNITURE. DREW & ZABRISKIE, Ridgewood, N. J.
Filed January 24, 1928. Serial No. 260,559. PUBLISHED MAY 29, 1928. Class 16.

245,052. WORK SHIRTS, OVERALLS, JACKETS, PANTS, SUITS, VESTS, COATS, JUMPERS, ONE-PIECE WORK SUITS, OVERALLS, AND PLAY SUITS FOR MEN AND CHILDREN. THE E. V. BENJAMIN COMPANY, INC., doing business as Maginnis Cotton Mills, New Orleans, La.
Filed January 24, 1928. Serial No. 260,549. PUBLISHED APRIL 17, 1928. Class 39.

245,053. MEN'S AND YOUNG MEN'S COATS, VESTS, TROUSERS, TOPCOATS, AND OVERCOATS. SHIREK & HIRSCH, New York, N. Y.
Filed January 23, 1928. Serial No. 260,535. PUBLISHED APRIL 10, 1928. Class 39.

245,054. MISSES', CHILDREN'S, AND INFANTS' DRESSES. LOUIS KALLISH, New York, N. Y.
Filed January 23, 1928. Serial No. 260,504. PUBLISHED APRIL 10, 1928. Class 39.

245,055. NECKWEAR-DISPLAY FIXTURES, HOSIERY-DISPLAY RACKS, CAP-DISPLAY STANDS, BEAD RACKS, TIE-RACKS, COMBINATION RACKS, AND PRICE-CARD HOLDERS ALL FOR STORES; CHAIRS AND TABLES FOR HOUSEHOLD AND CLUB USE. TORRINGTON SPECIALTY CO., Torrington, Conn.
Filed January 21, 1928. Serial No. 260,475. PUBLISHED MAY 29, 1928. Class 32.

245,056. MEN'S COATS, VESTS, PANTS, AND OVERCOATS. FASHION PARK INCORPORATED, Rochester, N. Y.
Filed January 21, 1928. Serial No. 260,439. PUBLISHED APRIL 10, 1928. Class 39.

245,057. VARIOUS KINDS OF PAINTS. JOHN CONNOLLY CARROLL, London, England.
Filed January 19, 1928. Serial No. 260,318. PUBLISHED MAY 29, 1928. Class 16.

245,058. SHOES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS THEREOF. CEDAR GROVE SHOE MFG. CO., Cedar Grove, Wis.
Filed January 14, 1928. Serial No. 260,083. PUBLISHED APRIL 17, 1928. Class 39.

245,059. ELECTRIC LAMPS FOR DENTISTS, PHYSICIANS, AND SURGEONS FOR MAKING EXAMINATIONS, DIAGNOSIS, AND TREATMENTS. WILLIAM J. CAMERON, doing business as Cameron's Surgical Specialty Co. (not Inc.), Chicago, Ill.
Filed December 28, 1927. Serial No. 259,393. PUBLISHED MAY 29, 1928. Class 44.

245,060. SENNA LEAVES, COLOCYNTH PULP, HENNA LEAVES, GUM ARABIC, AND HENBANE LEAVES. SUNDAN AMERICAN PRODUCE CO. INC., New York, N. Y.
Filed December 19, 1927. Serial No. 259,145. PUBLISHED MAY 29, 1928. Class 6.

245,061. ANTISEPTIC, GERMICIDE, DEODORANT, AND ASTRINGENT. EDWARD A. RUNDE, St. Louis, Mo.
Filed December 17, 1927. Serial No. 259,082. PUBLISHED MAY 29, 1928. Class 6.

245,062. CANDIED AND SALTED NUTS AND NUTS IN THEIR NATURAL STATE. PETERSON NUT COMPANY, Cleveland, Ohio.
Filed December 15, 1927. Serial No. 258,957. PUBLISHED MAY 29, 1928. Class 46.

245,063. TABLE GAME PLAYED WITH PIECES. CHARLES B. KAMERZINK, Hollywood, Tenn.
Filed December 12, 1927. Serial No. 258,816. PUBLISHED MAY 22, 1928. Class 22.

245,064. LOOM PICKERS, DOBBY CARDS OR HARNESS STRAPS, LUG STRAPS, BUMPER OR SPINDLE STRAPS, CHECK STRAPS, DRIVE STRAPS USED IN THE TEXTILE INDUSTRIES. K. A. STOCKER, New York, N. Y.
Filed December 9, 1927. Serial No. 258,704. PUBLISHED MAY 29, 1928. Class 23.

245,065. MEASURING AND SCIENTIFIC APPARATUS COMPRISING CURRENT METERS, VOLTMETERS, APPARATUS FOR THE DETERMINATION OF THE ALCOHOL CONTENT OF LIQUIDS, CONDENSER WATER METERS, FLUE-GAS TESTERS, WATER METERS, AND PHYSICAL-DEMONSTRATION APPARATUS AND INSTRUMENTS, DEPTH INDICATORS, APPARATUS FOR DEMONSTRATIONS BY MEANS OF SLIDES AND FILMS, TEMPERING BATHS, AND HEAT CONTROLLERS (THERMOSTATS). SIEMENS-SCHUCKERTWERKE, AKTIENGESELLSCHAFT, Berlin-Siemensstadt, Germany.
Filed December 6, 1927. Serial No. 258,556. PUBLISHED MAY 29, 1928. Class 26.

245,066. ARCH SUPPORTERS. FALCONE & DEWING, INC., Hartford, Conn.
Filed November 1, 1927. Serial No. 256,865. PUBLISHED MAY 29, 1928. Class 44.

245,067. HEAT-TEMPERING ATTACHMENT FOR BROODER AND POULTRY-HOUSE STOVES. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed October 17, 1927. Serial No. 256,194. PUBLISHED MAY 29, 1928. Class 34.

245,068. LETTER CARD GAME. ALLAN A. ROSBOROUGH, doing business as Alan Specialty Company, Chicago, Ill.
Filed October 14, 1927. Serial No. 256,089. PUBLISHED MAY 22, 1928. Class 22.

245,069. MEASURING AND SCIENTIFIC APPARATUS COMPRISING CURRENT METERS, VOLTMETERS, APPARATUS FOR THE DETERMINATION OF THE ALCOHOL CONTENTS OF LIQUIDS, CONDENSER WATER METERS, FLUE-GAS TESTERS, WATER METERS, AND PHYSICAL-DEMONSTRATION APPARATUS AND INSTRUMENTS, DEPTH INDICATORS, APPARATUS FOR DEMONSTRATIONS BY MEANS OF SLIDES AND FILMS, TEMPERING BATHS, AND HEAT CONTROLLERS (THERMOSTATS). SIEMENS-SCHUCKERTWERKE, AKTIENGESELLSCHAFT, Berlin-Siemensstadt, Germany.
Filed October 11, 1927. Serial No. 255,936. PUBLISHED MAY 29, 1928. Class 26.

245,070. TEA. JUANITA MILLER, Oakland, Calif.
Filed October 11, 1927. Serial No. 255,922. PUBLISHED MAY 29, 1928. Class 46.

245,071. MATTRESSES, BED SPRINGS, CUSHIONS, AND PILLOWS. ELLISON FURNITURE & CARPET Co., Fort Worth, Tex.
Filed October 1, 1927. Serial No. 255,499. PUBLISHED MAY 29, 1928. Class 32.

245,072. WHEELED GOODS—VIZ, CHILDREN'S TRICYCLES. LEWIS E. MYERS & COMPANY, Valparaiso, Ind., assignor to The Northern Trust Company and Harold H. Rockwell, trustees.
Filed September 24, 1927. Serial No. 255,192. PUBLISHED MAY 29, 1928. Class 22.

245,073. WHEELED GOODS—VIZ, CHILDREN'S TRICYCLES. LEWIS E. MYERS & COMPANY, Valparaiso, Ind., assignor to The Northern Trust Company and Harold H. Rockwell, trustees.
Filed September 24, 1927. Serial No. 255,191. PUBLISHED MAY 29, 1928. Class 22.

245,074. WHEELED GOODS—VIZ, CHILDREN'S TRICYCLES. LEWIS E. MYERS & COMPANY, Valparaiso, Ind., assignor to The Northern Trust Company and Harold H. Rockwell, trustees.
Filed September 24, 1927. Serial No. 255,190. PUBLISHED MAY 29, 1928. Class 22.

245,075. WHEELED GOODS—VIZ, CHILDREN'S TRICYCLES. LEWIS E. MYERS & COMPANY, Valparaiso, Ind., assignor to The Northern Trust Company and Harold H. Rockwell, trustees.
Filed September 24, 1927. Serial No. 255,187. PUBLISHED MAY 29, 1928. Class 22.

245,076. SAUSAGES AND FRANKFURTERS. THE VISKING CORPORATION, Chicago, Ill.
Filed September 15, 1927. Serial No. 254,789. PUBLISHED MAY 29, 1928. Class 46.

245,077. SAUSAGES AND FRANKFURTERS. THE VISKING CORPORATION, Chicago, Ill.
Filed September 15, 1927. Serial No. 254,788. PUBLISHED MAY 29, 1928. Class 46.

245,078. COMPOUNDS OF COCOA, SUGAR, AND FLAVORINGS IN BOTH LIQUID, SEMILIQUID, AND POWDER FORM USED IN MAKING ICE CREAM AND OTHER FOODS AND COMPOUNDS OF CHOCOLATE, SUGAR, AND FLAVORINGS IN BOTH LIQUID, SEMILIQUID, AND POWDER FORM USED IN MAKING ICE CREAM AND OTHER FOODS. H. B. HUNTER COMPANY, INC., Norfolk, Va.
Filed September 9, 1927. Serial No. 254,549. PUBLISHED MAY 22, 1928. Class 46.

245,079. LADIES' HATS. EDSON KEITH-CHICAGO MERCANTILE COMPANY, Chicago, Ill.
Filed October 28, 1927. Serial No. 256,720. PUBLISHED APRIL 17, 1928. Class 39.

245,080. CAST IRON OR STEEL VALVES FOR USE ON BARRELS OR THE LIKE. STEEL DRUM ACCESSORIES CORPORATION, Buffalo, N. Y.
Filed October 25, 1927. Serial No. 256,585. PUBLISHED MAY 29, 1928. Class 13.

245,081. MEN'S DRESS, NEGLIGEE, AND WORK TOP SHIRTS. PARKLEY SHIRT CO., INC., New York, N. Y., and Branford, Conn.
Filed October 20, 1927. Serial No. 256,871. PUBLISHED APRIL 10, 1928. Class 39.

245,082. MEN'S WOMEN'S, BOYS', GIRLS', AND INFANTS' HATS, COATS, SUITS, DRESSES. EDWARD L. ILSON, Brooklyn, N. Y.
Filed October 17, 1927. Serial No. 256,190. PUBLISHED APRIL 10, 1928. Class 39.

245,083. MEN'S WORK GLOVES MADE OF COMMON COTTON CLOTH, SPECIAL ELASTIC COTTON CLOTH, AND DUCK. FIELD GLOVE COMPANY, Bloomington, Ind.
Filed October 5, 1927. Serial No. 255,650. PUBLISHED APRIL 17, 1928. Class 39.

245,084. HOSIERY; VESTMENTS IN THE NATURE OF UNDERWEAR OF KNITTED OR TEXTILE FABRIC FOR MEN, WOMEN, AND CHILDREN; CORSETS, NECKTIES, BRACES IN THE NATURE OF GARMENT SUPPORTERS; GLOVES MADE FROM WOOL, COTTON, SILK, OR ARTIFICIAL SILK. A. ROBERT WIELAND, Auerbach, near Chemnitz, Germany.
Filed September 23, 1927. Serial No. 255,149. PUBLISHED APRIL 10, 1928. Class 39.

245,085. HOSIERY. INTERWOVEN STOCKING COMPANY, New Brunswick, N. J.
Filed August 4, 1927. Serial No. 253,025. PUBLISHED OCTOBER 25, 1927. Class 39.

245,086. BOOKS, LEAFLETS, AND INSTRUCTION SHEETS PUBLISHED FROM TIME TO TIME. MASTER SERVICE INC., New York, N. Y.
Filed July 19, 1927. Serial No. 252,270. PUBLISHED MAY 22, 1928. Class 38.

245,087. MAGAZINE ISSUED QUARTERLY. THE RADIO DIAL, New York, N. Y.
Filed July 7, 1927. Serial No. 251,628. PUBLISHED MAY 29, 1928. Class 38.

245,088. A BODY DEODORANT. HOLLANDER BROS. DRUG CO., Rankin, Pa.
Filed June 25, 1927. Serial No. 251,138. PUBLISHED AUGUST 16, 1927. Class 6.

245,089. PERFUMES, TOILET WATERS, FACIAL CREAMS, AND SKIN LOTIONS. ABRAHAM E. GLICKMAN, Brooklyn, N. Y.
Filed June 7, 1927. Serial No. 250,122. PUBLISHED AUGUST 9, 1927. Class 6.

245,090. BANDAGES AND OTHER NAMED SURGICAL APPLIANCES. SAFETY GLASS AND XETAL PRODUCTS, LIMITED, Stapleford, England.
Filed June 2, 1927. Serial No. 249,925. PUBLISHED MAY 29, 1928. Class 44.

245,091. MANILA ROPE AND CABLE. THE EDWIN H. FITLER COMPANY, Philadelphia, Pa.
Filed March 21, 1928. Serial No. 263,544. PUBLISHED MAY 22, 1928. Class 7.

245,092. PRINTED BOOKS. THE LITERARY GUILD OF AMERICA, INC., New York, N. Y.
Filed March 20, 1928. Serial No. 263,485. PUBLISHED MAY 29, 1928. Class 38.

245,093. PERIODICAL. HERBERT ELSAUM, doing business as The Jewish Humorist Company, New York, N. Y.
Filed March 19, 1928. Serial No. 263,380. PUBLISHED MAY 22, 1928. Class 38.

245,094. LADIES' AND MISSES' DRESSES. FIFTH AVENUE MODES INC., New York, N. Y.
Filed February 15, 1928. Serial No. 261,707. PUBLISHED APRIL 10, 1928. Class 39.

245,095. HOSIERY. HANES HOSIERY MILLS COMPANY, Winston-Salem, N. C.
Filed February 15, 1928. Serial No. 261,710. PUBLISHED APRIL 10, 1928. Class 39.

245,096. MONTHLY PUBLICATION. AGNES PENNAMACOOR, doing business as Delicatessen Publishing Company, New York, N. Y.
Filed February 15, 1928. Serial No. 261,720. PUBLISHED MAY 22, 1928. Class 38.

245,097. QUARTERLY PERIODICALS. FRANCIS P. GARVAN, New York, N. Y.
Filed March 23, 1928. Serial No. 263,650. PUBLISHED MAY 29, 1928. Class 38.

245,098. QUARTERLY PUBLICATION. BETA PI THETA FRATERNITY, Hartsville, S. C.
Filed March 23, 1928. Serial No. 263,635. PUBLISHED MAY 15, 1928. Class 38.

245,099. AUTOMOBILES AND MOTOR-DRIVEN TRUCKS AND CONSTRUCTIVE PARTS THEREOF. GENERAL MOTORS CORPORATION, Detroit, Mich.
Filed March 22, 1928. Serial No. 263,601. PUBLISHED MAY 29, 1928. Class 19.

245,100. MONTHLY PUBLICATION. FRATERNAL ORDER OF ORIOLES, Buffalo, N. Y.
Filed March 22, 1928. Serial No. 263,598. PUBLISHED MAY 15, 1928. Class 38.

245,101. TOILET PAPER, CREPE PAPER, PAPER NAPKINS, AND PAPER TABLECLOTHS. FORT HOWARD PAPER COMPANY, Green Bay, Wis.
Filed March 15, 1928. Serial No. 263,208. PUBLISHED MAY 15, 1928. Class 37.

245,102. OFFICE BULLETINS AND HOUSE ORGAN. STANFORD WRIGHT, Boston, Mass.
Filed March 13, 1928. Serial No. 263,113. PUBLISHED MAY 15, 1928. Class 38.

245,103. MONTHLY PRINTED PERIODICAL OR TRADE PAPER. REALTY PERIODICAL CORPORATION, New York, N. Y.
Filed March 13, 1928. Serial No. 263,103. PUBLISHED MAY 22, 1928. Class 38.

245,104. ORIENTAL RUGS MADE OF WOOL, SILK, AND VELVET. LEVON MAHMARIAN, doing business as S. B. Mahmarian, New York, N. Y.
Filed February 18, 1928. Serial No. 261,891. PUBLISHED MAY 29, 1928. Class 42.

245,105. BOYS' WASH SUITS AND BLOUSES, GIRLS' KNICKERS, PLAY SUITS, CHILDREN'S DRESSES; GYMNASTIC APPAREL—NAMELY, SKIRTS AND SERGE AND SATIN BLOOMERS. BENJAMIN LOBEL, doing business as Lo-Bel Middy Company, New York, N. Y.
Filed February 18, 1928. Serial No. 261,887. PUBLISHED APRIL 10, 1928. Class 39.

245,106. LADIES' AND MISSES' DRESSES. J. & M. YELLIN, New York, N. Y.
Filed February 17, 1928. Serial No. 261,854. PUBLISHED APRIL 10, 1928. Class 39.

245,107. CHILDREN'S AND LADIES' HOSIERY. ARCHY COMPANY INC., New York, N. Y.
Filed February 17, 1928. Serial No. 261,783. PUBLISHED APRIL 10, 1928. Class 39.

245,108. BLOTTING PAPER. ROCHESTER PAPER CO., Rochester, Mich.
Filed February 16, 1928. Serial No. 261,770. PUBLISHED MAY 15, 1928. Class 37.

245,109. TEXTILE FABRICS OF COTTON AND MIXTURES OF COTTON AND LINEN. COHN-HALL-MARX CO., New York, N. Y.
Filed March 24, 1928. Serial No. 263,690. PUBLISHED MAY 29, 1928. Class 42.

245,110. COVER PAPER. THE MARVELLUM COMPANY, Holyoke, Mass.
Filed March 24, 1928. Serial No. 263,712. PUBLISHED MAY 15, 1928. Class 37.

245,111. PERIODICAL PUBLICATIONS. FRATERNITY OF PHI GAMMA DELTA, Washington, D. C.
Filed March 27, 1928. Serial No. 263,818. PUBLISHED MAY 22, 1928. Class 38.

245,112. MONTHLY MAGAZINE. SHULSINGER PUBLISHING COMPANY, New York, N. Y.
Filed March 26, 1928. Serial No. 263,791. PUBLISHED MAY 15, 1928. Class 38.

245,113. PANCAKE GRIDDLES. MARINE CITY MOTOR CASTING COMPANY, Marine City, Mich.
Filed March 26, 1928. Serial No. 263,771. PUBLISHED MAY 29, 1928. Class 13.

245,114. PREPARATION USED IN THE TREATMENT OF DESTROYING LICE IN CATTLE AND POULTRY. EDWIN D. COOK, Chateaugay, N. Y.
Filed March 30, 1928. Serial No. 264,017. PUBLISHED MAY 29, 1928. Class 6.

245,115. SKATES. A. G. SPALDING & BROS., New York, N. Y.
Filed March 29, 1928. Serial No. 263,980. PUBLISHED MAY 29, 1928. Class 22.

245,116. GAME PLAYED WITH CARDS AND MARKERS. GEORGE A. TERRY, New Orleans, La.
Filed March 28, 1928. Serial No. 263,900. PUBLISHED MAY 29, 1928. Class 22.

245,117. AIR COMPRESSORS, PORTABLE AND NONPORTABLE, SELF-PROPELLED, AND NONSELF-PROPELLED; PUMPS, PORTABLE AND NONPORTABLE, SELF-PROPELLED AND NONSELF-PROPELLED; PNEUMATICALLY-OPERATED TOOLS—NAMELY, TRENCH SPADES, CLAY SPADES, ROCK DRILLS, BONDING DRILLS, PAVING BREAKERS, BACK-FILL TAMPERS, WRENCHES, AND LIFTING JACKS. METALWELD, INCORPORATED, Philadelphia, Pa.
Filed March 28, 1928. Serial No. 263,880. PUBLISHED MAY 29, 1928. Class 23.

245,118. AIR COMPRESSORS, PUMPS, SPECIAL TOOLS, ETC. METALWELD, INCORPORATED, Philadelphia, Pa.
Filed March 28, 1928. Serial No. 263,879. PUBLISHED MAY 2, 1928. Class 23.

245,119. TEA. WALTER H. STOECKER, doing business as Adolph Stoecker & Son, New York, N. Y.
Filed March 27, 1928. Serial No. 263,837. PUBLISHED MAY 29, 1928. Class 46.

245,120. WATCHES AND WATCHCASES. DAVIS & LOWE COMPANY, Newark, N. J.
Filed March 27, 1928. Serial No. 263,813. PUBLISHED MAY 29, 1928. Class 27.

245,121. GOLF IRONS AND GOLF CLUBS. WIMBAR, INC., New York, N. Y.
Filed March 27, 1928. Serial No. 263,806. PUBLISHED MAY 29, 1928. Class 22.

245,122. APPARATUS FOR MECHANICAL HANDLING OF BULK AND PACKAGED MATERIALS AND CONSTRUCTIVE PARTS OF SUCH APPARATUS COMPRISING CHAIN, BELT, SCREW, TROLLEY, AND AIR-DRIVEN CONVEYORS, CHAIN ELEVATORS, BELT ELEVATORS, MONORAILS, TROLLEYS, HOISTS, AND DRIVE UNITS. MECHANICAL HANDLING SYSTEMS, INCORPORATED, Detroit, Mich.
Filed March 26, 1928. Serial No. 263,773. PUBLISHED MAY 29, 1928. Class 23.

245,123. PERMANENT-WAVING MACHINES AND PARTS AND ACCESSORIES THEREOF. EUGENE, LTD., New York, N. Y.
Filed March 26, 1928. Serial No. 263,757. PUBLISHED MAY 29, 1928. Class 44.

245,124. CANNED FRUIT AND JELLIES—NAMELY, GUAVA JELLY, ORANGE MARMALADE, WATERMELON PRESERVES, PRESERVED FIGS, GUAVA MARMALADE, GRAPEFRUIT MARMALADE, KUMQUAT MARMALADE, AND GUAVA SUNDAE. EAST COAST PRESERVING COMPANY, Jacksonville, Fla.
Filed March 24, 1928. Serial No. 263,698. PUBLISHED MAY 29, 1928. Class 46.

245,125. BEDPANS. COLUMBIAN ENAMELING & STAMPING CO. Terre Haute, Ind.
Filed March 24, 1928. Serial No. 263,692. PUBLISHED MAY 29, 1928. Class 44.

245,126. PHONOGRAPHS. GEO. BORGFELDT & CO., New York, N. Y.
Filed March 23, 1928. Serial No. 263,637. PUBLISHED MAY 29, 1928. Class 36.

245,127. CHOCOLATES AND BONBONS. R. M. HAAN CANDY CO., INC., New York, N. Y.
Filed March 21, 1928. Serial No. 263,549. PUBLISHED MAY 29, 1928. Class 46.

245,128. HEATING PADS INTENDED PRINCIPALLY FOR THERAPEUTIC PURPOSES. THERMOGEN PRODUCTS CORPORATION, New York, N. Y.
Filed March 17, 1928. Serial No. 263,359. PUBLISHED MAY 29, 1928. Class 44.

245,129. SANITARY BELTS AND NAPKINS. OTTILIE CHARLOTTE STAHL, doing business as Pinomo Sanitary Products, New York, N. Y.
Filed March 17, 1928. Serial No. 263,356. PUBLISHED MAY 29, 1928. Class 44.

245,130. CLEANSING AND ASTRINGENT LOTIONS. LOYA LABORATORIES, Los Angeles, Calif.
Filed March 17, 1928. Serial No. 263,325. PUBLISHED MAY 29, 1928. Class 6.

245,131. ELECTRIC CRANES, MACHINE TOOLS, ENGINE LATHES, GAP LATHES, JOURNAL-TURNING LATHES, DRIVING-WHEEL LATHES, COACH-WHEEL LATHES, STANDARD-PATTERN AXLE LATHES, BORING MILLS, CAR-WHEEL BORERS, GRINDING MACHINES, TRAVERSE SHAPERS, PLANERS, AND SLOTTERS. SHAW CRANE-PUTNAM MACHINE CO. INC., New York, N. Y.
Filed March 12, 1928. Serial No. 263,016. PUBLISHED MAY 29, 1928. Class 23.

245,132. RADIUM-TREATED CONTAINER PRODUCING LIGHT RADIO-ACTIVE DRINKING WATER. SIGMUND L. GOLDMAN, doing business as Triumph Manufacturing Company, Chicago, Ill.
Filed March 12, 1928. Serial No. 262,999. PUBLISHED MAY 29, 1928. Class 44.

245,133. ELECTRICALLY-OPERATED FLESH-VIBRATING MACHINE. COLLAPSO CAMP BED CO., INC., doing business as The Normalizer Co., Wilmington, Calif.
Filed March 10, 1928. Serial No. 262,898. PUBLISHED MAY 29, 1928. Class 44.

245,134. HOSIERY. LEE I. ROBINSON, Philadelphia, Pa.
Filed December 31, 1927. Serial No. 259,592. PUBLISHED MAY 1, 1928. Class 39.

245,135. HATS AND CAPS OF ALL KINDS FOR MEN AND BOYS. ETCHISON HAT CO., INC., Richmond, Va.
Filed December 13, 1927. Serial No. 258,859. PUBLISHED MAY 1, 1928. Class 39.

245,136. WOMEN'S AND CHILDREN'S HATS AND HAT BODIES. NEWPORT HAT BODY CO., INC., New York, N. Y.
Filed December 9, 1927. Serial No. 258,696. PUBLISHED MAY 1, 1928. Class 39.

245,137. PIECE GOODS MADE OF SILK. H. MIRENBURG & CO. INC., New York, N. Y.
Filed December 2, 1927. Serial No. 258,343. PUBLISHED APRIL 3, 1928. Class 42.

245,138. MEN'S AND BOYS' PAJAMAS, NIGHTSHIRTS, AND NIGHTGOWNS. L. FEIBLEMAN & CO., INC., New Orleans, La.
Filed November 29, 1927. Serial No. 258,172. PUBLISHED MAY 1, 1928. Class 39.

245,139. MEN'S HATS. GOLDEN ROD HAT CO., New York, N. Y.
Filed November 8, 1927. Serial No. 257,231. PUBLISHED APRIL 24, 1928. Class 39.

245,140. INSOLES, COMPOSITION SOLES, AND RUBBER SOLES AND HEELS FOR BOOTS AND SHOES. ESSEX RUBBER COMPANY INC., Trenton, N. J.
Filed November 7, 1927. Serial No. 257,154. PUBLISHED MAY 1, 1928. Class 39.

245,141. WATERPROOF BRAKE LIQUID AND BELT-GRIPPER LIQUID. FLASH LABORATORIES, INC., doing business as The Semaphore Company, Chicago, Ill.
Filed October 31, 1927. Serial No. 256,815. PUBLISHED MAY 15, 1928. Class 4.

245,142. GARMENTS AND WEARING APPAREL MANUFACTURED IN WHOLE OR IN PART FROM FURS CONSISTING OF COATS, WRAPS, CAPES, HATS, AND CAPS FOR MEN, WOMEN, AND CHILDREN AND SCARFS, MUFFS, NECK PIECES, BOAS, AND GLOVES. C. G. GUNTHER'S SONS, New York, N. Y.
Filed October 22, 1927. Serial No. 256,462. PUBLISHED APRIL 24, 1928. Class 39.

245,143. GARMENTS AND WEARING APPAREL MANUFACTURED IN WHOLE OR IN PART FROM FURS CONSISTING OF COATS, WRAPS, CAPES, HATS, AND CAPS FOR MEN, WOMEN, AND CHILDREN AND SCARFS, MUFFS, NECK PIECES, BOAS, AND GLOVES. C. C. GUNTHER'S SONS, New York, N. Y.
Filed October 22, 1927. Serial No. 256,461. PUBLISHED APRIL 24, 1928. Class 39.

245,144. GARMENTS AND WEARING APPAREL MANUFACTURED IN WHOLE OR IN PART FROM FURS CONSISTING OF COATS, WRAPS, CAPES, HATS, AND CAPS FOR MEN, WOMEN, AND CHILDREN AND SCARFS, MUFFS, NECK PIECES, BOAS, AND GLOVES. C. G. GUNTHER'S SONS, New York, N. Y.
Filed October 5, 1927. Serial No. 255,658. PUBLISHED APRIL 24, 1928. Class 39.

245,145. LADIES' WOOLEN HOSIERY. BEAR BRAND HOSIERY CO., Chicago, Ill.
Filed September 26, 1927. Serial No. 255,219. PUBLISHED MAY 1, 1928. Class 39.

245,146. SWEATERS, BATHING SUITS, KNITTED DRESSES, AND KNITTED COATS, CAPS, AND SPORT HOSIERY. HARRY L. PETERZELL, doing business as Onyx Knitting Mills, also doing business as Hanover Knitting Mills of America, Philadelphia, Pa.
Filed September 22, 1927. Serial No. 255,073. PUBLISHED MAY 1, 1928. Class 39.

245,147. SWEATERS AND SWEATER COATS FOR MEN, WOMEN, AND CHILDREN. DESSAUER & ENGEL COMPANY, Chicago, Ill.
Filed January 28, 1928. Serial No. 260,813. PUBLISHED APRIL 24, 1928. Class 39.

245,148. SHERRY-WINE SEASONING SAUCE, PORT-WINE SEASONING SAUCE, WHITE-WINE SEASONING SAUCE, AND RED-WINE SEASONING SAUCE. COLONIAL GRAPE PRODUCTS CO. OF CALIFORNIA, San Francisco, Calif.
Filed January 28, 1928. Serial No. 260,802. PUBLISHED MAY 29, 1928. Class 46.

245,149. WATERPROOF COATS AND WATERPROOF CAPES FOR MEN, WOMEN, AND CHILDREN. PEARSON BROTHERS, London, England.
Filed January 28, 1928. Serial No. 260,784. PUBLISHED APRIL 24, 1928. Class 39.

245,150. WATERPROOF COATS AND WATERPROOF CAPES FOR MEN, WOMEN, AND CHILDREN. PEARSON BROTHERS, London, England.
Filed January 28, 1928. Serial No. 260,783. PUBLISHED APRIL 24, 1928. Class 39.

245,151. HOSIERY. RUFUS W. SCOTT COMPANY, New York, N. Y.
Filed January 27, 1928. Serial No. 260,759. PUBLISHED MAY 1, 1928. Class 39.

245,152. LADIES' FUR SCARFS, DRESSES, COATS, AND SUITS, HOSIERY, TEXTILE UNDERWEAR, AND HATS. DOROTHY DOUGLAS, Denver, Colo.
Filed January 23, 1928. Serial No. 260,494. PUBLISHED MAY 1, 1928. Class 39.

245,153. LADIES' APRONS AND HOUSE FROCKS. CHIC MANUFACTURING CO., Peoria, Ill.
Filed January 23, 1928. Serial No. 260,490. PUBLISHED APRIL 24, 1928. Class 39.

245,154. SOLUBLE CHEMICAL COMPOUNDS FOR USE AS DETERGENTS WITH AND WITHOUT THE ADDITION OF SOAP. THE COWLES DETERGENT CO., Cleveland, Ohio.
Filed January 20, 1928. Serial No. 260,376. PUBLISHED MAY 29, 1928. Class 4.

245,155. MALT EXTRACT. HENRY RUBIN, Brooklyn, N. Y.
Filed April 9, 1928. Serial No. 264,610. PUBLISHED MAY 29, 1928. Class 46.

245,156. POWDERS FOR CHOCOLATE MILK DRINKS. EDWIN C. MCCULLOUGH, New York, N. Y.
Filed April 9, 1928. Serial No. 264,594. PUBLISHED MAY 29, 1928. Class 46.

245,157. MACARONI. KURTZ BROS., Philadelphia, Pa.
Filed April 6, 1928. Serial No. 264,431. PUBLISHED MAY 29, 1928. Class 46.

245,158. SHOE POLISHES, DRESSINGS, AND CLEANERS. GEO. J. KELLY, INC., Lynn, Mass.
Filed April 3, 1928. Serial No. 264,238. PUBLISHED MAY 29, 1928. Class 4.

245,159. ICE-CREAM CONES. PREFERRED BAKING CO., Boston, Mass.
Filed April 2, 1928. Serial No. 264,198. PUBLISHED MAY 29, 1928. Class 46.

245,160. MALT SYRUP. ROBERT P FRIEDMAN, doing business as The Hoosier Grocery, Indianapolis, Ind.
Filed April 2, 1928. Serial No. 264,161. PUBLISHED MAY 29, 1928. Class 46.

245,161. DRY-CLEANING PREPARATIONS. THE TOLEDO REX SPRAY COMPANY, Toledo, Ohio.
Filed March 30, 1928. Serial No. 264,060. PUBLISHED MAY 29, 1928. Class 4.

245,162. REFRIGERATORS. TENNESSEE FURNITURE CORPORATION, Chattanooga, Tenn.
Filed March 30, 1928. Serial No. 264,058. PUBLISHED MAY 29, 1928. Class 31.

245,163. SHOE-SOLE PRESERVATIVES. FREDERICK W. NILES, West Bend, Wis.
Filed March 28, 1928. Serial No. 263,884. PUBLISHED MAY 29, 1928. Class 4.

245,164. CLEANING PADS OF STEEL WOOL. MAURICE LEVINE, New York, N. Y.
Filed March 28, 1928. Serial No. 263,875. PUBLISHED MAY 29, 1928. Class 4.

245,165. CORN SUGAR. VET PRODUCTS LABORATORY INC., Westbury, N. Y.
Filed March 26, 1928. Serial No. 263,796. PUBLISHED MAY 29, 1928. Class 46.

245,166. MALT SYRUP. GEORGE M. ZAHRINGER, doing business as The Union Malt Products Company, Milwaukee, Wis.
Filed March 21, 1928. Serial No. 263,574. PUBLISHED MAY 29, 1928. Class 46.

245,167. BOOTS AND SHOES MADE OF LEATHER, RUBBER, FABRIC, CANVAS, AND OF COMBINATIONS OF ANY OF SAID MATERIALS. BENJAMIN W. SHAUB, Lancaster, Pa.
Filed January 10, 1928. Serial No. 259,927. PUBLISHED APRIL 24, 1928. Class 39.

245,168. TWO TO SIX YEAR OLD CHILDREN'S OUTER APPAREL—NAMELY, BOYS' AND GIRLS' COATS; KNITTED OUTER APPAREL—NAMELY, COATS; HATS, DRESSES, SUITS, CREEPERS, SWEATERS, AND BOYS' SUITS, JACKETS, AND BLOUSES; GIRLS' DRESSES, SKIRTS, AND BLOOMERS. BULLOCK'S INC., Los Angeles, Calif., assignor to Bullock's, Inc., of Los Angeles, Calif., a Corporation of Delaware.
Filed January 3, 1928. Serial No. 259,617. PUBLISHED MAY 1, 1928. Class 39.

245,169. HOSIERY. DEXDALE HOSIERY MILLS, Lansdale, Pa.
Filed February 15, 1928. Serial No. 261,705. PUBLISHED APRIL 10, 1928. Class 39.

245,170. CAPS AND HATS FOR MEN AND WOMEN. THE CROFUT & KNAPP CO., South Norwalk, Conn.
Filed February 15, 1928. Serial No. 261,702. PUBLISHED APRIL 10, 1928. Class 39.

245,171. HARDWARE. THE WINSTED HARDWARE MANUFACTURING CO., Winsted, Conn.
Filed February 14, 1928. Serial No. 261,688. PUBLISHED MAY 29, 1928. Class 13.

245,172. PUBLICATION ISSUED FROM TIME TO TIME. THE WARM AIR FURNACE FAN COMPANY, Cleveland, Ohio.
Filed February 13, 1928. Serial No. 261,661. PUBLISHED MAY 15, 1928. Class 38.

245,173. RUBBER HEELS. HOOD RUBBER COMPANY, Watertown, Mass.
Filed February 11, 1928. Serial No. 261,572. PUBLISHED APRIL 10, 1928. Class 39.

245,174. BOOTS AND SHOES OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. FRENCH, SHRINER & URNER, Boston, Mass.
Filed February 11, 1928. Serial No. 261,562. PUBLISHED APRIL 10, 1928. Class 39.

245,175. MEN'S CLOTHING—NAMELY, OVERCOATS, COATS, TOPCOATS, SUITS, VESTS, AND TROUSERS. THE GER COMPANY, New York, N. Y.
Filed February 10, 1928. Serial No. 261,504. PUBLISHED APRIL 17, 1928. Class 39.

245,176. PAPER NAPKINS. INDEPENDENT PAPER MILLS, INC., Plattsburg and New York, N. Y.
Filed February 9, 1928. Serial No. 261,440. PUBLISHED MAY 29, 1928. Class 37.

245,177. TENNIS AND ATHLETIC SHOES MADE IN PART OF CANVAS AND IN PART OF RUBBER. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y.
Filed February 9, 1928. Serial No. 261,427. PUBLISHED APRIL 10, 1928. Class 39.

245,178. CERTAIN NAMED GUNS AND ORDNANCE. CESKOSLOVENSKA ZBROJOVKA AKCIOVA SPOLECNOST V. BANE, Brunn, Czechoslovakia.
Filed February 9, 1928. Serial No. 261,420. PUBLISHED MAY 29, 1928. Class 9.

245,179. COPPER RANGE BOILERS. MORRIS HUGO, doing business as Portland Copper Works, Portland, Me.
Filed February 7, 1928. Serial No. 261,318. PUBLISHED MAY 29, 1928. Class 34.

245,180. LADIES' COATS, SUITS, AND DRESSES. JOS. ENGEL CO., New York, N. Y.
Filed February 7, 1928. Serial No. 261,308. PUBLISHED APRIL 10, 1928. Class 39.

245,181. COATS, CLOAKS, SUITS, DRESSES, ENSEMBLES, FOR WOMEN, MISSES, AND GIRLS. GLADYS CLOAK & SUIT CO., INC., New York, N. Y.
Filed February 6, 1928. Serial No. 261,253. PUBLISHED APRIL 10, 1928. Class 39.

245,182. PULVERIZED ANIMAL MANURE. BACHRODT & COMPANY, San Jose, Calif.
Filed February 4, 1928. Serial No. 261,162. PUBLISHED MAY 29, 1928. Class 10.

245,183. LADIES' HATS. LOUIS N. POKRESS, Los Angeles, Calif.
Filed February 3, 1928. Serial No. 261,142. PUBLISHED APRIL 10, 1928. Class 39.

245,184. CERTAIN NAMED PIECE GOODS. FRANK & COHEN SILK CORP., New York, N. Y.
Filed February 3, 1928. Serial No. 261,103. PUBLISHED MAY 29, 1928. Class 42.

245,185. PRINTED AND EMBOSSED PAPER LABELS. THE TABLET & TICKET CO., Chicago, Ill.
Filed February 2, 1928. Serial No. 261,082. PUBLISHED MAY 29, 1928. Class 38.

245,186. MISSES', WOMEN'S, AND CHILDREN'S DRESSES. KORNHANDLER & KANE, INC., New York, N. Y.
Filed February 2, 1928. Serial No. 261,066. PUBLISHED APRIL 17, 1928. Class 39.

245,187. WATERPROOF HOSIERY. RUDOLPH VRABEK, New York, N. Y.
Filed February 1, 1928. Serial No. 261,025. PUBLISHED APRIL 17, 1928. Class 39.

245,188. MEN'S CLOTHING—NAMELY, SUITS, OVERCOATS, AND RAINCOATS. THE OUTLET COMPANY, Providence, R. I.
Filed February 1, 1928. Serial No. 261,016. PUBLISHED APRIL 17, 1928. Class 39.

245,189. DEODORANT AND FOOT PREPARATION. CLAYTON & YOUNG, Fort Wayne, Ind.
Filed March 7, 1928. Serial No. 262,700. PUBLISHED MAY 29, 1928. Class 6.

245,190. CERTAIN NAMED SURGICAL APPLIANCES AND SANITARY GOODS. THE MILLER RUBBER COMPANY, Akron, Ohio.
Filed March 6, 1928. Serial No. 262,672. PUBLISHED MAY 29, 1928. Class 44.

245,191. HOLLOW RUBBER BALLS, RUBBER INFLATED TOYS, AND RUBBER DOLLS. THE MILLER RUBBER COMPANY, Akron, Ohio.
Filed March 6, 1928. Serial No. 262,673. PUBLISHED MAY 22, 1928. Class 22.

245,192. FURNITURE POLISH. THE MAGNET POLISH CO., Ozone Park, N. Y.
Filed March 6, 1928. Serial No. 262,666. PUBLISHED MAY 29, 1928. Class 16.

245,193. FRESH CITRUS FRUITS—NAMELY, ORANGES AND LEMONS. OXNARD CITRUS ASSOCIATION, Hueneme and Camarillo, Calif.
Filed March 5, 1928. Serial No. 262,625. PUBLISHED MAY 29, 1928. Class 46.

245,194. INSECTICIDES. FRANK E. JACOBI, doing business as St. Louis Veterinary Laboratories, St. Louis, Mo.
Filed March 3, 1928. Serial No. 262,578. PUBLISHED MAY 29, 1928. Class 6.

245,195. CHRISTMAS-TREE ORNAMENTS. PAUL BOEHLAND, doing business as Paul Boehland & Co., Milwaukee, Wis.
Filed March 2, 1928. Serial No. 262,505. PUBLISHED MAY 29, 1928. Class 22.

245,196. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS, EXTRACTS, AND CONCENTRATES FOR MAKING THE SAME. MT. MADISON SPRING CO., Gorham, N. H.
Filed February 28, 1928. Serial No. 262,373. PUBLISHED MAY 29, 1928. Class 45.

245,197. CIGARS. THE ITALIAN CIGAR AND TOBACCO CO. INCORPORATED, Brooklyn, N. Y.
Filed February 28, 1928. Serial No. 262,362. PUBLISHED MAY 29, 1928. Class 17.

245,198. ARTIFICIAL CHRISTMAS TREES. MARK HARRIS, New Rochelle, N. Y.
Filed February 28, 1928. Serial No. 262,358. PUBLISHED MAY 22, 1928. Class 22.

245,199. PREPARATIONS FOR LIVESTOCK AND POULTRY—TO WIT, TABLET PREPARATIONS FOR USE IN DRINK WATER AS POULTRY INTESTINAL ANTISEPTIC, POWDER PREPARATIONS FOR USE IN POULTRY FEEDS FOR REMOVAL OF INTESTINAL WORMS, DUSTING POWDERS FOR HEALING WOUNDS, ALSO DUSTING POWDERS FOR REPELLING INSECTS BY APPLICATION TO STOCK AND POULTRY OR QUARTERS WHERE CONFINED; AND BALSAM OINTMENTS AND LINIMENTS FOR TREATMENT OF WOUNDS, RHEUMATIC CONDITIONS, AND BACTERIAL INFECTIONS IN LIVESTOCK AND POULTRY. SUN SHINE LABORATORIES, Colony, Kans.
Filed February 27, 1928. Serial No. 262,336. PUBLISHED MAY 29, 1928. Class 6.

245,200. GAMES PLAYED WITH RACKETS AND BALLS. PARKER BROTHERS, INC., Salem, Mass.
Filed February 23, 1928. Serial No. 262,116. PUBLISHED MAY 22, 1928. Class 22.

245,201. TOILET WATER, PERFUMES, FACE POWDER, TALCUM POWDER, BATH POWDER, FACE AND SKIN CREAMS, FACE AND SKIN LOTIONS. THE MILSON COMPANY, Cincinnati, Ohio.
Filed February 23, 1928. Serial No. 262,111. PUBLISHED APRIL 24, 1928. Class 6.

245,202. CANNED SAUER KRAUT AND SAUER KRAUT JUICE. THE STEWART PRODUCTS CORPORATION, San Francisco, Calif.
Filed February 20, 1928. Serial No. 261,994. PUBLISHED MAY 29, 1928. Class 46.

245,203. FRESH-WATER SYSTEMS. NATIONAL UTILITIES CORPORATION, Milwaukee, Wis.
Filed February 20, 1928. Serial No. 261,979. PUBLISHED MAY 29, 1928. Class 23.

245,204. RADIATOR COVERS IN THE NATURE OF HOUSEHOLD AND OFFICE FURNITURE. RADIANT STEEL PRODUCTS CO., Williamsport, Pa.
Filed February 18, 1928. Serial No. 261,907. PUBLISHED MAY 29, 1928. Class 32.

245,205. TEXTILE MACHINES. WHITIN MACHINE WORKS, Whitinsville, Mass.
Filed February 17, 1928. Serial No. 261,852. PUBLISHED MAY 29, 1928. Class 23.

245,206. SHAMPOO. MIDLAND CHEMICAL LABORATORIES, INC., Dubuque, Iowa.
Filed February 8, 1928. Serial No. 261,375. PUBLISHED MAY 29, 1928. Class 6.

245,207. CIGARETTES. COWIE & COMPANY, LIMITED, New York, N. Y.
Filed February 8, 1928. Serial No. 261,355. PUBLISHED MAY 29, 1928. Class 17.

245,208. STEAM ENGINES AND THEIR PARTS, AUTOMOBILE MOTORS AND THEIR PARTS, SUPERFEEDERS FOR AUTOMOBILE MOTORS, PUMPS FOR ALL LIQUIDS, AIR COMPRESSORS, VACUUM PUMPS, COMPRESSED-AIR MOTORS, TRANSMISSION APPARATUS, COMPRESSED-AIR CLUTCHES, AND BLOWING ENGINES AND THEIR PARTS. ROLAND LARAQUE, Paris, France.
Filed February 6, 1928. Serial No. 261,206. PUBLISHED MAY 29, 1928. Class 23.

245,209. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. TIP TOP BOTTLING CO., St. Louis, Mo.
Filed December 13, 1926. Serial No. 241,454. PUBLISHED JUNE 21, 1927. Class 45.

245,210. AUTOMOTIVE REPAIR-PRICE LEAFLETS PUBLISHED PERIODICALLY. PACIFIC RADIATOR, Oakland, Calif.
Filed November 29, 1926. Serial No. 240,730. PUBLISHED MAY 29, 1928. Class 38.

245,211. HOSIERY. THE KAHLER SHOE CO. INC., New York, N. Y.
Filed October 22, 1926. Serial No. 239,036. PUBLISHED APRIL 17, 1928. Class 39.

245,212. SHOES MADE OF LEATHER, RUBBER, OR FABRIC, OR COMBINATIONS OF SUCH MATERIALS. IDEAL SHOE MFG. CO., Milwaukee, Wis.
Filed August 16, 1926. Serial No. 236,039. PUBLISHED APRIL 17, 1928. Class 39.

245,213. COATS, WRAPS, CAPES, ETC. THE YOUNG-QUINLAN COMPANY, Minneapolis, Minn.
Filed August 9, 1926 Serial No. 235,768. PUBLISHED APRIL 10, 1928. Class 39.

245,214. COATS, WRAPS, CAPES, ETC. THE YOUNG-QUINLAN COMPANY, Minneapolis, Minn.
Filed July 31, 1926. Serial No. 235,443. PUBLISHED APRIL 10, 1928. Class 39.

245,215. COATS, WRAPS, CAPES, ETC. THE YOUNG-QUINLAN COMPANY, Minneapolis, Minn.
Filed July 30, 1926. Serial No. 235,366. PUBLISHED APRIL 10, 1928. Class 39.

245,216. COATS, WRAPS, CAPES, ETC. THE YOUNG-QUINLAN COMPANY, Minneapolis, Minn.
Filed July 30, 1926. Serial No. 235,364. PUBLISHED APRIL 10, 1928. Class 39.

245,217. PUBLICATION ISSUED MONTHLY. DE LUXE REPRODUCING ROLL CORPORATION, New York, N. Y.
Filed July 26, 1926. Serial No. 235,123. PUBLISHED MAY 22, 1928. Class 38.

245,218. RADIO RECEIVING SETS, PARTS THEREOF, AND LOUD SPEAKERS, BUT NOT INCLUDING SOCKETS OR PLUGS OR ELECTRICAL WIRING DEVICES. THE SPARKS-WITHINGTON COMPANY, Jackson, Mich.
Filed May 1, 1926. Serial No. 231,016. PUBLISHED OCTOBER 11, 1927. Class 21.

245,219. OLIVE OIL. LOUIS SCHAEB, New York, N. Y.
Filed September 30, 1926. Serial No. 237,985. PUBLISHED MAY 29, 1928. Class 46.

245,220. MASONIC OR LODGE APRONS. PETER SIEBEL, doing business as Siebel Company, New York, N. Y.
Filed January 19, 1928. Serial No. 260,358. PUBLISHED APRIL 24, 1928. Class 39.

245,221. COATS AND SUITS FOR WOMEN. JACK & JULES FREEDMAN, New York, N. Y.
Filed January 19, 1928. Serial No. 260,327. PUBLISHED MAY 1, 1928. Class 39.

245,222. DEHYDRATED VEGETABLES IN BOTH POWDERED AND SOLID FORM. CALIFORNIA VEGETABLE PRODUCTS CO., Los Angeles, Calif.
Filed January 16, 1928. Serial No. 260,162. PUBLISHED MAY 29, 1928. Class 46.

245,223. CONDENSED MILK. THE BORDEN COMPANY, New York, N. Y.
Filed January 14, 1928. Serial No. 260,079. PUBLISHED MAY 29, 1928. Class 46.

245,224. HOSIERY. THOMAS, FIELD & CO., Charleston, W. Va.
Filed January 10, 1928. Serial No. 259,929. PUBLISHED APRIL 24, 1928. Class 39.

245,225. COOKED VEGETABLE SAUCE FOR USE ON STEAKS, CHOPS, ROASTS, CHICKEN, FISH, AND OTHER MEATS. ZAFIRIS D. KAPESIZIS, doing business as Gold Plate Sauce Company, Los Angeles, Calif.
Filed March 21, 1928. Serial No. 263,550. PUBLISHED MAY 29, 1928. Class 46.

245,226. DRY-CLEANING PREPARATION. ALLEN SILBAR, doing business as Juliet Products Co., Chicago, Ill.
Filed March 19, 1928. Serial No. 263,438. PUBLISHED MAY 15, 1928. Class 4.

245,227. CLOTHS USED IN CLEANING AND POLISHING LACQUERED, ENAMELED, AND PAINTED SURFACES. A. L. SOWARD, San Francisco, Calif.
Filed March 14, 1928 Serial No. 263,181. PUBLISHED MAY 29, 1928. Class 4.

245,228. ICE-CREAM CABINETS. ICELESS COOLER CORPORATION, Chicago, Ill.
Filed March 10, 1928. Serial No. 262,962. PUBLISHED MAY 29, 1928. Class 31.

245,229. WASHING AND CLEANING COMPOUNDS IN LIQUID FORM EMPLOYED IN WASHING PAINTED SURFACES, CARPETS, CLOTHS, ETC. FREDERIC WILKES, doing business as Magic Maid Laboratories, Wilkinsburg, Pa.
Filed March 8, 1928. Serial No. 262,833. PUBLISHED MAY 22, 1928. Class 4.

245,230. SHAVING CREAM USED AS A BEARD SOFTENER. CORA M. GILLMAN, Youngstown, Ohio.
Filed March 5, 1928. Serial No. 262,604. PUBLISHED MAY 15, 1928. Class 4.

245,231. LIQUID DRY-CLEANSING COMPOUND FOR REMOVING GREASE AND DIRT SPOTS FROM FABRICS. THE R. B. CHEMICAL COMPANY, Southington, Conn.
Filed March 3, 1928. Serial No. 262,576. PUBLISHED MAY 22, 1928. Class 4.

245,232. WOMEN'S AND CHILDREN'S UNDERWEAR. VANITY FAIR SILK MILLS, Reading, Pa., and New York, N. Y.
Filed March 1, 1928. Serial No. 262,496. PUBLISHED APRIL 24, 1928. Class 39.

245,233. SANDWICHES. LANCE PACKING COMPANY, Charlotte, N. C.
Filed February 23, 1928. Serial No. 262,096. PUBLISHED MAY 29, 1928. Class 46.

245,234. SANDWICHES. LANCE PACKING COMPANY, Charlotte, N. C.
Filed February 23, 1928. Serial No. 262,095. PUBLISHED MAY 29, 1928. Class 46.

245,235. MEN'S TOPCOATS AND MEN'S SUITS COMPRISING COATS, VESTS, AND TROUSERS. HICKEY-FREEMAN CO., Rochester, N. Y.
Filed February 21, 1928. Serial No. 262,027. PUBLISHED APRIL 24, 1928. Class 39.

245,236. MEN'S OVERCOATS. HICKEY-FREEMAN CO., Rochester, N. Y.
Filed February 21, 1928. Serial No. 262,926. PUBLISHED APRIL 24, 1928. Class 39.

245,237. POULTRY SEASONING, CLOVES, MUSTARD, HORSERADISH, INDIA RELISH, ALLSPICE, LEMON EXTRACT FOR FOOD FLAVORING, NUTMEGS, CINNAMON, CAYENNE PEPPER, PIE SEASONING, MARJORAM, SALAD DRESSING, VANILLA EXTRACT FOR FOOD FLAVORING, WHITE PEPPER, AND BLACK PEPPER. EDGAR HALE LAMME, doing business as Coffee Blenders' Shoppe, Santa Ana, Calif.
Filed February 17, 1928. Serial No. 261,819. PUBLISHED MAY 29, 1928. Class 46.

245,238. MEN'S AND YOUNG MEN'S COATS AND SUITS. MORRIS LABENSKY, doing business as M. Labensky, New York, N. Y.
Filed February 11, 1928. Serial No. 261,577. PUBLISHED APRIL 24, 1928. Class 39.

245,239. LIQUID SOAP. VESTAL CHEMICAL CO., St. Louis, Mo.
Filed February 9, 1928. Serial No. 261,469. PUBLISHED APRIL 8, 1928. Class 4.

245,240. LADIES' DRESSES. THE BIJOU DRESS CO., New York, N. Y.
Filed February 9, 1928. Serial No. 261,417. PUBLISHED APRIL 24, 1928. Class 39.

245,241. BOX TOES. THE MCCLELLAN SHOE SPECIALTY CO., Kennett Square, Pa.
Filed February 7, 1928. Serial No. 261,324. PUBLISHED APRIL 24, 1928. Class 39.

245,242. MEN'S AND BOYS' TOPCOATS, OVERCOATS, SUITS, TROUSERS, VESTS, AND KNICKERS. LUBOW BROTHERS, INC., New York, N. Y.
Filed February 7, 1928. Serial No. 261,323. PUBLISHED APRIL 24, 1928. Class 39.

245,243. ATHLETIC CLOTHING. GORDON VAUGHAN CORPORATION, Dallas, Tex.
Filed February 2, 1928. Serial No. 261,084. PUBLISHED MAY 1, 1928. Class 39.

245,244. SOLUBLE CHEMICAL COMPOUNDS FOR USE AS DETERGENTS WITH AND WITHOUT THE ADDITION OF SOAP. THE COWLES DETERGENT COMPANY, Cleveland, Ohio.
Filed February 2, 1928. Serial No. 261,045. PUBLISHED MAY 29, 1928. Class 4.

245,245. PERIODICAL. THE SUPREME COUNCIL (MOTHER COUNCIL OF THE WORLD) OF THE INSPECTORS GENERAL KNIGHTS COMMANDERS OF THE HOUSE OF THE TEMPLE OF SOLOMON OF THE THIRTY-THIRD DEGREE OF THE ANCIENT AND ACCEPTED SCOTTISH RITE OF FREE MASONRY OF THE SOUTHERN JURISDICTION OF THE UNITED STATES OF AMERICA, Washington, D. C.
Filed October 28, 1927. Serial No. 256,752. PUBLISHED DECEMBER 13, 1927. Class 38.

245,246. ORANGES, LEMONS, AND GRAPEFRUIT IN THEIR NATURAL STATE. CENTRAL CALIFORNIA PRODUCERS, Oakland, Calif.
Filed April 22, 1926. Serial No. 230,525. PUBLISHED MAY 29, 1928. Class 46.

245,247. SHOES CONSTRUCTED OF LEATHER AND/OR FABRIC. THE SELBY SHOE COMPANY, Portsmouth, Ohio.
Filed January 30, 1926. Serial No. 226,690. PUBLISHED APRIL 10, 1928. Class 39.

245,248. PREPARED MUSTARD. THE FRANK TEA & SPICE CO., Cincinnati, Ohio.
Filed September 19, 1927. Serial No. 254,906. PUBLISHED MAY 29, 1928. Class 46.

245,249. SLEEVELESS UNION SUITS. RODMAN C. PELL, Jr., doing business as Sanitary Undergarment Co., San Francisco, Calif.
Filed September 6, 1927. Serial No. 254,422. PUBLISHED APRIL 24, 1928. Class 39.

245,250. RUBBER AND LEATHER BOOTS AND SHOES. BINGHAMTON SHOE & RUBBER CO., Binghamton, N. Y.
Filed August 27, 1927. Serial No. 254,069. PUBLISHED MAY 1, 1928. Class 39.

245,251. WOMEN'S KNITTED UNDERWEAR. IRIS KNITTING CORPORATION, Pottstown, Pa.
Filed August 22, 1927. Serial No. 253,806. PUBLISHED MAY 1, 1928. Class 39.

245,252. LADIES' HATS AND HAT LININGS. R. BELTH CO. INC., New York, N. Y.
Filed July 18, 1927. Serial No. 252,185. PUBLISHED APRIL 24, 1928. Class 39.

245,253. AUTO TOP DRESSING CONTAINING VARNISH. BLACK DUCK PRODUCTS, INC., Whittier, Calif.
Filed June 29, 1927. Serial No. 251,296. PUBLISHED MAY 29, 1928. Class 4.

245,254. WOMEN'S AND GIRLS' HOSIERY MADE OF TEXTILES, SILKS, AND COMBINATIONS OF THESE MATERIALS. I. MILLER AND SONS, INCORPORATED, Long Island City, N. Y.
Filed May 10, 1927. Serial No. 248,781. PUBLISHED APRIL 10, 1928. Class 39.

245,255. CANNED AND PACKAGE FOOD PRODUCTS; TEAS AND COFFEES. SAMPSON & BURNHAM CO. INC., Lynn, Mass.
Filed April 30, 1927. Serial No. 248,257. PUBLISHED MAY 29, 1928. Class 46.

245,256. PAPER SHEETS, STRIPS, ROLLS, PADS, ETC. AMERICAN SALES BOOK COMPANY, LIMITED, Toronto, Ontario, Canada, and Niagara Falls, N. Y.
Filed May 18, 1925. Serial No. 214,454. PUBLISHED MAY 29, 1928. Class 37.

245,257. CLOTHING FOR MEN, YOUNG MEN, AND BOYS—NAMELY, COATS, VESTS, SUITS, AND TROUSERS. JAIN-SOL CLOTHING CO., New York, N. Y., assignor to Jain Sol Clothing Co., Inc., New York, N. Y., a Corporation of New York.
Filed March 31, 1925. Serial No. 211,935. PUBLISHED JUNE 16, 1925. Class 39.

245,258. SWEATERS AND BATHING SUITS. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo.
Filed October 17, 1922. Serial No. 170,811. PUBLISHED APRIL 17, 1928. Class 39.

245,259. ELECTRIC HAIR DRIERS, ELECTRIC VIBRATORS, ELECTRIC MASSAGE APPARATUS, VIOLET-RAY APPARATUS. BRETTY & BECKHER, INC., New York, N. Y.
Filed June 25, 1928. Serial No. 268,573. Class 44.

245,260. GINGER ALE. BROWN BEVERAGES CORPORATION, Wilmington, Del.
Filed April 19, 1928. Serial No. 265,091. PUBLISHED MAY 29, 1928. Class 45.

245,261. MIRRORS. W. P. FULLER & CO., San Francisco, Calif.
Filed April 18, 1928. Serial No. 265,041. PUBLISHED MAY 29, 1928. Class 32.

245,262. RUBBER TIRES FOR VEHICLES. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed April 17, 1928. Serial No. 265,026. PUBLISHED MAY 29, 1928. Class 35.

245,263. FRESH ORANGES. SUNLAND PACKING HOUSE COMPANY, Porterville, Calif.
Filed April 17, 1928. Serial No. 265,023. PUBLISHED MAY 29, 1928. Class 46.

245,264. ASTRINGENTS, ASTRINGENT CERATES, ETC. ABRAHAM KAIRY, doing business as A. Kairy, New York, N. Y.
Filed April 17, 1928. Serial No. 264,991. PUBLISHED MAY 29, 1928. Class 6.

245,265. FRESH ORANGES. HILLSIDE PACKING ASSOCIATION, Lindsay, Calif.
Filed April 17, 1928. Serial No. 264,985. PUBLISHED MAY 29, 1928. Class 46.

245,266. FRESH GRAPES AND FRESH CITRUS FRUITS. T. E. ANDERSON, Lindsay, Calif.
Filed April 17, 1928. Serial No. 264,939. PUBLISHED MAY 29, 1928. Class 46.

245,267. FRESH CITRUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT. UPLAND LEMON GROWERS ASSOCIATION, Upland, Calif.
Filed April 16, 1928. Serial No. 264,929. PUBLISHED MAY 29, 1928. Class 46.

245,268. COMPOUND FOR MENTHOLATING CIGARETTES. PEIRCE N. TARBOX, doing business as P. N. Tarbox, New York, N. Y.
Filed April 16, 1928. Serial No. 264,925. PUBLISHED MAY 29, 1928. Class 6.

245,269. LEATHER BELTING. DETROIT OAK BELTING COMPANY, Detroit, Mich.
Filed April 16, 1928. Serial No. 264,873. PUBLISHED MAY 29, 1928. Class 35.

245,270. BOOK PAPER. KANSAS CITY PAPER HOUSE, Kansas City, Mo.
Filed March 10, 1928. Serial No. 262,965. PUBLISHED MAY 15, 1928. Class 37.

245,271. MAGAZINES AND PRINTED BOOKS. NATIONAL SPIRITUAL ASSEMBLY OF THE BAHA'IS OF THE UNITED STATES AND CANADA, New York, N. Y.
Filed March 10, 1928. Serial No. 262,923. PUBLISHED MAY 22 1928. Class 38.

245,272. PHOTOGRAPHIC PRINTS. IRVINE SIEGEL, New York, N. Y.
Filed March 7, 1928. Serial No. 262,774. PUBLISHED MAY 29, 1928. Class 38.

245,273. FERTILIZERS. A. H. CASE AND CO., INC., Buffalo, N. Y.
Filed March 3, 1928. Serial No. 262,553. PUBLISHED MAY 29, 1928. Class 10.

245,274. SLIDER-CONTROLLED FASTENERS. NORTH & JUDD MANUFACTURING COMPANY, New Britain, Conn.
Filed March 2, 1928. Serial No. 262,525. PUBLISHED MAY 29, 1928. Class 13.

245,275. HOSIERY. MOUNTAIN CITY KNITTING MILLS, Chattanooga, Tenn.
Filed March 1, 1928. Serial No. 262,476. PUBLISHED APRIL 17, 1928. Class 39.

245,276. OVERALLS, COVERALLS, WORK SHIRTS, AND PANTS. JOHNSTON DRY GOODS CO., Birmingham, Ala.
Filed February 29, 1928. Serial No. 262,403. PUBLISHED APRIL 17, 1928. Class 39.

245,277. BASE-METAL PIE PANS AND CAKE PANS. EDWARD KATZINGER COMPANY, Chicago, Ill.
Filed February 27, 1928. Serial No. 262,310. PUBLISHED MAY 29, 1928. Class 13.

245,278. CORSETS, BRASSIÈRES, AND GIRDLES. KOPS BROS. INC., New York, N. Y.
Filed February 1, 1928. Serial No. 261,010. PUBLISHED APRIL 10, 1928. Class 39.

245,279. LUBRICATING OILS. CARL STUDNA, Kansas City, Mo.
Filed May 24, 1927. Serial No. 249,491. PUBLISHED MAY 29, 1928. Class 15.

245,280. BALANCE SHEETS, JOURNAL SHEETS, CASH SLIPS, APPLICATION SHEETS FOR LOANS, AND ACCOUNTING FORMS GENERALLY FOR FINANCE-CORPORATION SYSTEMS. WILLIAM A. PHILLIPS, Milwaukee, Wis.
Filed May 21, 1927. Serial No. 249,375. PUBLISHED MAY 29, 1928. Class 37.

245,281. CERTAIN NAMED TRICKS AND APPARATUS FOR PRODUCING ILLUSIONS AND ESCAPES. MODERN MAGIC CO. INC., New York, N. Y.
Filed May 20, 1927. Serial No. 249,284. PUBLISHED MAY 29, 1928. Class 22.

245,282. ELECTRIC FLOOD AND SPOTLIGHTS FOR ILLUMINATING STORE WINDOWS, DISPLAYS, AND THE LIKE. DOROTHY A. GAREY, doing business as Lighting Specialties Co., Brooklyn, N. Y.
Filed February 11, 1927. Serial No. 244,228. PUBLISHED AUGUST 2, 1927. Class 21.

245,283. OVERCOATS AND TOPCOATS FOR MEN, YOUNG MEN, AND BOYS. L. W. PRAGER & SON, New York, N. Y.
Filed February 5, 1927. Serial No. 243,883. PUBLISHED APRIL 17, 1928. Class 39.

245,284. CHILDREN'S CAPS. RELIABLE KNITTING WORKS, Milwaukee, Wis.
Filed April 22, 1927. Serial No. 247,869. PUBLISHED MAY 1, 1928. Class 39.

245,285. CANNED FRUITS AND CANNED VEGETABLES, CANNED FISH, COFFEE, TEA, SPICES, OLIVES, PICKLES, CATSUP, AND CANDIES. SIMON BROS. CO., Madison, Wis.
Filed April 9, 1927. Serial No. 247,221. PUBLISHED MAY 29, 1928. Class 46.

245,286. MEN'S SUITS AND OVERCOATS. PAYMER BROTHERS, Baltimore, Md.
Filed March 25, 1927. Serial No. 246,359. PUBLISHED APRIL 24, 1928. Class 39.

245,287. MEN'S SUITS AND OVERCOATS. PAYMER BROTHERS, Baltimore, Md.
Filed March 25, 1927. Serial No. 246,358. PUBLISHED APRIL 24, 1928. Class 39.

245,288. MEN'S AND YOUNG MEN'S SUITS, OVERCOATS, TOPCOATS, AND KNICKERS. LEVY BROS. & ADLER ROCHESTER, INC., Rochester, N. Y.
Filed March 24, 1927. Serial No. 246,296. PUBLISHED APRIL 24, 1928. Class 39.

245,289. SOAP AND SOAP CHIPS. ALLEN B. WRISLEY COMPANY, Chicago, Ill.
Filed March 22, 1927. Serial No. 246,190. PUBLISHED MAY 15, 1928. Class 4.

245,290. MEN'S LEATHER SHOES. R. H. MACY & CO., INC., New York, N. Y.
Filed March 1, 1927. Serial No. 245,066. PUBLISHED APRIL 24, 1928. Class 39.

245,291. GALOSHES, SNOW BOOTS, BOOTEES, GYMNASTS' SHOES; BOOTS AND SHOES MADE OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF SAME; RUBBER SHOE SOLES, RUBBER SHOE HEELS, MALT-HOUSE SHOE SOLES, AND RUBBER PADS FOR MALT-HOUSE SHOES. HELSINGBORGS GUMMIFABRIKS AKTIEBOLAG, Helsingborg, Sweden.
Filed February 28, 1927. Serial No. 245,011. PUBLISHED MAY 1, 1928. Class 39.

245,292. MEN'S, WOMEN'S, AND CHILDREN'S SHOES MADE OF LEATHER, CLOTH, AND CANVAS. JAMES O. STEELE, doing business as The French Shoppe, Atlanta, Ga.
Filed February 26, 1927. Serial No. 244,962. PUBLISHED MAY 1, 1928. Class 39.

245,293. WOMEN'S KNITTED AND WOVEN UNDERWEAR. IPSWICH MILLS, Boston, Mass.
Filed February 17, 1927. Serial No. 244,500. PUBLISHED APRIL 24, 1928. Class 39.

245,294. NECKTIES. ACOMA TEXTILE MILLS, Brooklyn, N. Y.
Filed January 14, 1927. Serial No. 242,807. PUBLISHED APRIL 24, 1928. Class 39.

245,295. LACE CURTAINS AND CURTAIN LACE IN PIECE GOODS. QUAKER LACE COMPANY, Philadelphia, Pa.
Filed April 25, 1928. Serial No. 265,403. PUBLISHED MAY 29, 1928. Class 42.

245,296. KNITTED ELASTIC WEBBING COMPOSED WHOLLY OR IN PART OF ELASTIC THREADS IN THE PIECE AND ALSO IN SHORT LENGTHS. FRANK W. GORSE CO., Needham, Mass.
Filed April 25, 1928. Serial No. 265,378. PUBLISHED MAY 29, 1928. Class 42.

245,297. YARN. ROSLAND CORPORATION, New York, N. Y.
Filed April 20, 1928. Serial No. 265,168. PUBLISHED MAY 29, 1928. Class 43.

245,298. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed April 20, 1928. Serial No. 265,151. PUBLISHED MAY 29, 1928. Class 42.

245,299. TEXTILE RUGS. BRESLIN BROTHERS CARPET COMPANY, Gloucester City, N. J.
Filed April 19, 1928. Serial No. 265,089. PUBLISHED MAY 29, 1928. Class 42.

245,300. SILK PIECE GOODS. EMPIRE SILK COMPANY, New York, N. Y.
Filed April 14, 1928. Serial No. 264,814. PUBLISHED MAY 29, 1928. Class 42.

245,301. METAL PIPE. WHEELING STEEL CORPORATION, Wheeling, W. Va.
Filed April 9, 1928. Serial No. 264,622. PUBLISHED MAY 29, 1928. Class 13.

245,302. HOSE NOZZLES AND LAWN SPRINKLERS. THE CLARK MANUFACTURING COMPANY, Philadelphia, Pa.
Filed April 9, 1928. Serial No. 264,563. PUBLISHED MAY 29, 1928. Class 13.

245,303. TABLETS AND WRITING PAPER. BIRMINGHAM PAPER CO., Birmingham, Ala.
Filed April 9, 1928. Serial No. 264,554. PUBLISHED MAY 29, 1928. Class 37.

245,304. TOILET PAPER AND PAPER NAPKINS. MUTUAL STORES, INC., Oakland, Calif.
Filed April 7, 1928. Serial No. 264,497. PUBLISHED MAY 29, 1928. Class 37.

245,305. DYNAMITE. HERCULES POWDER COMPANY, Wilmington, Del.
Filed April 4, 1928. Serial No. 264,305. PUBLISHED MAY 29, 1928. Class 9.

245,306. TITLE FOR EDITORIAL AND NEWS CONTRIBUTIONS FOR PUBLICATION IN A PERIODICAL. T. BARNEY THOMPSON, Rockford, Ill.
Filed April 2, 1928. Serial No. 264,210. PUBLISHED MAY 22, 1928. Class 38.

245,307. MAGAZINE PUBLISHED PERIODICALLY. MACFADDEN PUBLICATIONS, INC., New York, N. Y.
Filed April 2, 1928. Serial No. 264,175. PUBLISHED MAY 15, 1928. Class 38.

245,308. FERTILIZER. IRVING MCEWEN, Omaha, Nebr.
Filed March 31, 1928. Serial No. 264,115. PUBLISHED MAY 29, 1928. Class 10.

245,309. CHARTS FOR WEEKLY PUBLICATIONS. IRVING FISHER, doing business as Index Number Institute, New Haven, Conn.
Filed March 29, 1928. Serial No. 263,939. PUBLISHED MAY 15, 1928. Class 38.

245,310. PERIODICAL MAGAZINE. WILLIAM W. COWAN, Manchester, N. H.
Filed March 29, 1928. Serial No. 263,927. PUBLISHED MAY 15, 1928. Class 38.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

245,311. (CLASS 39. CLOTHING.) MAURICE E. SULTZBACH, INC., Newark, N. J. Filed May 16, 1928. Serial No. 266,496.

Lloyds

For Men's, Young Men's, and Boys' Coats, Vests, Trousers, and Overcoats.
Claims use since 1925.

245,312. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARNOLD BROS., Chicago, Ill. Filed May 14, 1928. Serial No. 266,347.

Aged In The Wood

For Mincemeat.
Claims use since Jan. 15, 1927.

245,313. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) M. FEIGEL & BRO., INC., New York, N. Y. Filed Apr. 28, 1928. Serial No. 265,530.

all-Purpose-Size

For Sizing Used in the Sizing of Straw to Make It Waterproof.
Claims use since Dec. 15, 1926.

245,314. (CLASS 39. CLOTHING.) SEXTON MANUFACTURING COMPANY, Fairfield, Ill. Filed Mar. 19, 1928. Serial No. 263,434.

Alaska

For Men's and Children's Underwear and Nightwear—Namely, Union Suits, Drawers, Nightshirts, and Pajamas Made of Woven Textiles.
Claims use since Nov. 3, 1926.

245,315. (CLASS 39. CLOTHING.) SEXTON MANUFACTURING COMPANY, Fairfield, Ill. Filed Mar. 19, 1928. Serial No. 263,433.

Rip-Proof

For Men's and Children's Underwear and Nightwear—Namely, Union Suits, Drawers, Nightshirts, and Pajamas Made of Woven Textiles.
Claims use since Mar. 23, 1927.

245,316. (CLASS 39. CLOTHING.) EVERITT & GRAF, INC., Milwaukee, Wis. Filed Nov. 30, 1927. Serial No. 258,216.

Mussolini Felts

For Ladies' Hats.
Claims use since Apr. 15, 1927.

245,317. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BROOKSIDE FRUIT CO., Stockton, Calif. Filed Nov. 2, 1927. Serial No. 256,904.

BELLA NAPOLI

For Fresh Grapes, Pears, Cherries, and Peaches.
Claims use since Sept. 1, 1926.

245,318. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEE AND CADY, Detroit, Mich. Filed Oct. 28, 1927. Serial No. 256,729.

Approved

For Package Cocoa.
Claims use since Apr. 19, 1927.

245,319. (CLASS 45. BEVERAGES, NONALCOHOLIC.) EDWIN H. HOUSE, doing business as House's Cherry Fruit Farm, Saugatuck, Mich. Filed Aug. 26, 1927. Serial No. 253,999.

Cherri-Mix

For Nonalcoholic and Maltless Beverages.
Claims use since May 1, 1927.

245,320. (CLASS 39. CLOTHING.) JULIUS GUTMAN & CO., INC., Baltimore, Md. Filed July 20, 1927. Serial No. 252,825.

JULIUS GUTMAN & CO
PROFESSOR
NEAL
COMBINATION LAST
BRACE ARCH SUPPORT

For Men's, Women's, and Children's Leather Shoes.
Claims use since May 31, 1927.

245,321. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL A. STONEBACK, Philadelphia, Pa. Filed May 20, 1927. Serial No. 249,304.

"WAFER BREAD"

For Health Bread Baked in Thin, Crackerlike Form.
Claims use since 1917.

245,322. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) INTERNATIONAL PROJECTOR CORPORATION, New York, N. Y. Filed Oct. 20, 1926. Serial No. 238,907.

POWER'S

For Motion-Picture-Projection Machines.
Claims use since about November, 1902.

245,323. (CLASS 39. CLOTHING.) DANIEL J. HEALY, doing business as D. J. Healy Shops, Detroit, Mich. Filed Feb. 11, 1928. Serial No. 261,568.

Vivi
VOGUE-VALUE

For Ladies' Dresses.
Claims use since Jan. 1, 1926.

245,324. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) HENRY P. BOOS, Minneapolis, Minn. Filed May 5, 1928. Serial No. 265,943.

ORAL ART

For Porcelain-Tip Bridge Teeth, Porcelain-Root Bridge Teeth, Hygienic Bridges, Facing Bridges, Posterior Bridges, Gold Hygienic Pontics, Crown Bridges, Soldered Facing Bridges, Porcelain Teeth on Gold Saddles, Cast Gold Dentures, Swaged Gold Dentures, Cast Horseshoe Gold Dentures, Gold and Vulcanite Cast Dentures, Overarch Bar Dentures, Open-Bite Castings, Gold Crowns Swaged, Porcelain-Faced Gold Crowns, Cast Gold Crowns, Cast Gold Restorations, Porcelain-Jacket Crowns, Porcelain Inlays, Porcelain Restorations, Porcelain Bridges, Orthodontia Appliances, Cast Aluminum Dentures, Base-Metal Denture Castings, One-Sided Replacements, Wafer Dentures, Dentures Reproducing Labial and Lingual Anatomy, Celluloid Dentures, Bakelite Dentures, Cleft-Palate Dentures, Vulcanite Retainers, Vulcanite Partials, Gold Fillings, Gold Clasps, Lingual Bar Dentures, and Attachment Restorations.
Claims use since on or about Dec. 31, 1921.

245,325. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AMALGAMATED PAINT COMPANY, New York, N. Y. Filed Apr. 30, 1928. Serial No. 265,687.

POLY-CHROME

For Flat Wall Paints, Varnishes, and Paint Enamels.
Claims use since June 1, 1925.

245,326. (CLASS 37. PAPER AND STATIONERY.) SHERIDAN-CLAYTON PAPER CO., St. Joseph, Mo. Filed Apr. 23, 1928. Serial No. 265,301.

BUTCHKRAFT

For Wrapping Paper.
Claims use since April, 1924.

245,327. (CLASS 37. PAPER AND STATIONERY.) KURTZ BROS., Clearfield, Pa. Filed Apr. 17, 1928. Serial No. 264,995.

Old Town

For Typewriter Tablets, Composition Books, Spelling Tablets, Drawing Paper, Writing Tablets; Ream Paper Such As Composition and Practice Papers, Bond Paper, Printing Papers; and Toilet Paper.
Claims use since June 1, 1919.

245,328. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE RANSOM & RANDOLPH CO., Toledo, Ohio. Filed Apr. 9, 1928. Serial No. 264,606.

MORSE

For Instruments for Dental Purposes Such as Scalers.
Claims use since Dec. 1, 1925.

245,329. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AMALGAMATED PAINT COMPANY, New York, N. Y. Filed Mar. 27, 1928. Serial No. 263,809.

LASTWELL

For Ready-Mixed Paints, Varnishes, Paint Enamels, and Paint Colors Ground in Oil.
Claims use since June 1, 1926.

245,330. (CLASS 39. CLOTHING.) KINGSBORO SILK MILLS, INC., Gloversville, N. Y. Filed Mar. 24, 1928. Serial No. 263,706.

ROGERS
RUN-PROOF

For Knitted Cotton, Rayon, Silk, and Silk and Rayon Underwear for Women and Children.
Claims use since on or about Apr. 1, 1927.

245,331. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CUNNINGHAM DRUG STORES, INC., Detroit, Mich. Filed Feb. 6, 1928. Serial No. 261,243.

HAWTHORNE

For Golf Balls.
Claims use since Apr. 15, 1927.

245,332. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ANDREW ALBRIGHT, Jr., Newark, N. J. Filed Jan. 21, 1928. Serial No. 260,417.

ALBRIGHT

For Golf Balls.
Claims use since May, 1927.

245,333. (CLASS 37. PAPER AND STATIONERY.) LEE AND CADY, Detroit, Mich. Filed Dec. 10, 1927. Serial No. 258,756.

Approved

For Toilet Paper.
Claims use since Apr. 19, 1927.

245,334. (CLASS 11. INKS AND INKING MATERIALS.) SNOWDON PARLETTE, Oklahoma City, Okla. Filed Aug. 22, 1927. Serial No. 253,818.

HY-GRADE

For Writing and Drawing Inks.
Claims use since September, 1924.

245,335. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) LEE AND CADY, Detroit, Mich. Filed Aug. 20, 1927. Serial No. 253,760.

approved

For Toothpicks Put Up in Packages.
Claims use since Apr. 19, 1927.

245,336. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NUSILVER PRODUCTS CO., Tulsa, Okla. Filed July 28, 1927. Serial No. 252,661.

NUSILVER

For a Plating Solution.
Claims use since Aug. 26, 1926.

245,337. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PETRILLE K. AGNEW, doing business as Agnew Company, Not Inc., Chicago, Ill. Filed July 18, 1927. Serial No. 252,179.

Mrs. Agnew's

For French Dressing.
Claims use since May 6, 1927.

245,338. (CLASS 38. PRINTS AND PUBLICATIONS.) THE BUZZA COMPANY, Minneapolis, Minn. Filed July 5, 1927. Serial No. 251,483.

VOLLAND-PUBLICATIONS-THE GORDON

For Printed Books.
Claims use since June 7, 1927.

245,339. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) AMERICAN FOUNDRY & FURNACE COMPANY, Bloomington, Ill. Filed July 1, 1927. Serial No. 251,373.

LINCOLN

For Coal, Oil, Vapor, Gas, and Wood Warm-Air Heating Furnaces.
Claims use since Feb. 1, 1927.

245,340. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE NEW HAVEN CLOCK CO., New Haven, Conn. Filed June 29, 1927. Serial No. 251,281.

KRACK - PROOF
KRYSTAL

For Clocks and Watches.
Claims use since June 15, 1927.

245,341. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE HUBLEY MANUFACTURING COMPANY, Lancaster, Pa. Filed June 22, 1927. Serial No. 250,922.

LINDY

For Toys—Namely, Aeroplanes or Flying Machines.
Claims use since about June 15, 1927.

245,342. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LEVI-SIMSON & COMPANY, New York, N. Y. Filed June 11, 1927. Serial No. 250,413.

"Tie-Bias"

For Silk and Cotton Goods in the Piece and by the Running Yard.
Claims use since May 27, 1927.

245,343. (CLASS 39. CLOTHING.) CHARLES H. BAKER, San Francisco, Calif. Filed June 1, 1927. Serial No. 249,831.

C.H. BAKER'S
FOOT

PROTECTOR

For Boots and Shoes for Men, Women, and Children, Made of Leather, Cloth, Silks, Satins, and Reptile Skins and Combinations of the Same.
Claims use since Mar. 29, 1927.

245,344. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLAZE, BALAAM & MOYE, Exeter, Calif. Filed Oct. 25, 1926. Serial No. 239,170.

RELIABLE Brand

For Fresh Grapes, Peaches, and Plums.
Claims use since Oct. 10, 1924.

245,345. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) COLUMBIA PHONOGRAPH COMPANY, INC., Bridgeport, Conn. Filed June 21, 1926. Serial No. 233,530.

VELVET TONE

For Radio Receiving, Detecting, and Transmitting Sets and Parts Thereof; Crystal Receiving Sets, Regenerative Receiving Sets, Radio and Audio Frequency Amplifiers (Electron Tubes and Assembled Amplifying Units), Loud Speakers; Detector, Amplifier, Transmitting, and Rectifying Vacuum Tubes; Vacuum-Tube Sockets, Radio and Audio Frequency Transformers, Rheostats, Grid Leaks, Grid Condensers, Inductance and Coupling Coils, Fixed and Variable Condensers, Insulators, Crystal Detectors and Mountings, Antennæ and Antennæ Equipment, Antennæ Protectors, Loop Antennæ, Telephone Plugs and Jacks, and Electrical Switches.
Claims use since about May 21, 1926.

245,346. (CLASS 37. PAPER AND STATIONERY.) A. KIMBALL COMPANY, New York, N. Y. Filed Apr. 4, 1925. Serial No. 212,189.

BENDOVER

For Blank Marking Tickets, Tags, and Blank Labels Containing Stiffening Devices.
Claims use since 1908 as applied to marking tickets and tags and to labels containing stiffening devices since 1910.

TRADE-MARK REGISTRATIONS RENEWED

69,269. PERFUMES FOR TOILET USE. Registered June 2, 1908. SOC.TA PROD.TI CHIM.CO FARMAC.CI A. BERTELLI & C., Milan, Italy, a Corporation of Italy. Renewed June 2, 1928.

69,497. MEDICATED PLASTERS. Registered June 16, 1908. SOC.TA PROD.TI CHIM.CO FARMAC.CI A. BERTELLI & C., Milan, Italy, a Corporation of Italy. Renewed June 16, 1928.

69,739. CERTAIN MEDICAL PREPARATIONS. Registered June 30, 1908. SOC.TA PROD.TI CHIM.CO FARMAC.CI A. BERTELLI & C., Milan, Italy, a Corporation of Italy. Renewed June 30, 1928.

LABELS

REGISTERED AUGUST 7, 1928.

34,391.—*Title:* NAMELITE MILL WHITE. For Paints. MAX ABELMAN, doing business as Maco Paint & Varnish Co., Boston, Mass. Published May 1, 1928.

34,392.—*Title:* MIRACLE. For Fresh Oranges. BRADFORD BROS., INC., Placentia, Calif. Published April 6, 1928.

34,393.—*Title:* LONG CHEW GUM (CASE #1). For Chewing Gum. CLARK BROTHERS CHEWING GUM CO., Pittsburgh, Pa. Published April 10, 1928.

34,394.—*Title:* LONG CHEW GUM (CASE #3). For Chewing Gum. CLARK BROTHERS CHEWING GUM CO., Pittsburgh, Pa. Published April 10, 1928.

34,395.—*Title:* COLCA. For Cookies. COLCA COOKIE CORP., Brooklyn, N. Y. Published April 1, 1928.

34,396.—*Title:* TEITLER'S. For Bottled Carbonated Beverages. CONEY ISLAND SODA WATER CO., INC., doing business as Teitler's Beverages, Brooklyn, N. Y. Published March 1, 1927.

34,397.—*Title:* SOLE JOY. For Massage for the Feet. CHARLES M. DEAN, doing business as D & D Laboratories, Los Angeles, Calif. Published May 10, 1928.

34,398.—*Title:* FYFES. For Shoes. R. H. FYFE & Co., Detroit, Mich. Published May 5, 1928.

34,399.—*Title:* TREASURE ISLAND DELICACIES. For Cakes and Confections. DOROTHY K. GEBRISH, doing business as Treasure Island Delicacies, Minneapolis, Minn. Published May 10, 1928.

34,400.—*Title:* CONCORD GRAPES. For Concord Grapes. GRAND RIVER FRUIT ASSOCIATION, Spring Lake, Mich. Published June 15, 1928.

34,401.—*Title:* SHER-BO. For Dessert and Pudding Powder. GUNTRATH-LORENZEN CO., Chicago, Ill. Published June 20, 1928.

34,402.—*Title:* PIONEER. For Canned Minced Clams. G. P. HALFERTY & CO., Seattle, Wash. Published June 1, 1928.

34,403.—*Title:* HICKMAN'S SILVER BIRCH CHEWING GUM. For Chewing Gum. R. H. HICKMAN COMPANY, Stowe Township and Pittsburgh, Pa. Published December 8, 1927.

34,404.—*Title:* KASSIM. For Canned Fish. RAVANNA E. MOHAMED KASSIM, doing business as R. E. Mohamed Kassim & Co., Klang, Selanger, Federated Malay States. Published April 1, 1928.

34,405.—*Title:* VARIETY. For Candy Bars. LEROY W. KIMBALL, Chicago, Ill. Published May 19, 1928.

34,406.—*Title:* A-MOND SODA. For a Nonalcoholic Beverage—Namely, Soda. SAMUEL LEONARDO, doing business as Temple-Hill Syrup Co., Newburgh, N. Y. Published March 22, 1928.

34,407.—*Title:* SODA. For Nonalcoholic Beverages. SAMUEL LEONARDO, doing business as Temple-Hill Syrup Co., Newburgh, N. Y. Published March 22, 1928.

34,408.—*Title:* MORNING GLORY. For Substitute for Coffee. ALBERT C. LEONE, Burbank, Calif. Published May 16, 1928.

34,409.—*Title:* AMANDOLA. For Candy. THE ROBT. F. MACKENZIE CO., Cleveland, Ohio. Published June 1, 1928.

34,410.—*Title:* FORESTO MICHELUCCI'S MEDICATED BATHING MEDICINE. For a Medicinal Preparation. FORESTO MICHELUCCI, Pittsburgh, Pa. Published June 1, 1928.

34,411.—*Title:* GOLDEN HAWAIIAN. For Glacé Pineapple. MID-PACIFIC CANDY COMPANY, LIMITED, Honolulu, Territory of Hawaii. Published April 25, 1928.

34,412.—*Title:* HERCULES DRY CELL. For Electric Batteries. NATIONAL CARBON COMPANY, INC., New York, N. Y. Published February 11, 1928.

34,413.—*Title:* ROSE'MOND. For Cleansing Cream. ROSE'MOND COSMETIC CO., Los Angeles, Calif. Published February 25, 1928.

34,414.—*Title:* THE BOXING GAME, MANLY ART OF SELF DEFENSE. For Game. STOLL & EDWARDS CO. INC., New York, N. Y. Published June 11, 1928.

34,415.—*Title:* H. R. H. HER ROYAL HIGHNESS. For Hosiery. STUDIO HOSIERY COMPANY, St. Louis, Mo. Published June 15, 1928.

34,416.—*Title:* THUNDERBOLT. For Insecticide. THE THUNDERBOLT CO., Philadelphia, Pa. Published July 15, 1927.

34,417.—*Title:* WELCH-ADE. For Welch-Ade. THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y. Published February 1, 1928.

34,418.—*Title:* CINDERELLA SLIPPER SHOPPE. For Shoes, Slippers, Rubbers, and Hosiery. SOL W. WYMAN, Cleveland, Ohio. Published January 1, 1927.

PRINTS

REGISTERED AUGUST 7, 1928.

11,135.—*Title:* HANDBAGS . . . IN A SELECTION OF INDIVIDUAL CREATIONS THAT ARE VERY UNUSUAL. For Hand Bags. BLACK, STARR & FROST, New York, N. Y. Published July 1, 1928.

11,136.—*Title:* INDIVIDUALITY. For Vehicle Bumpers. THE C. G. SPRING & BUMPER COMPANY, Detroit, Mich. Published May 12, 1927.

11,137.—*Title:* THE PHALANX OF PROTECTION. For Vehicle Bumpers. THE C. G. SPRING & BUMPER COMPANY, Detroit, Mich. Published June 16, 1928.

11,138.—*Title:* CLAMP NAILS. For Clamp Nails. CLAMP NAIL COMPANY, Chicago, Ill. Published April 14, 1928.

11,139.—*Title:* PRICES OF CLAMP NAILS. For Clamp Nails. CLAMP NAIL COMPANY, Chicago, Ill. Published April 14, 1928.

11,140.—*Title:* MITER NAILS. For Clamp Nails. CLAMP NAIL COMPANY, Chicago, Ill. Published April 25, 1928.

11,141.—*Title:* STEELGRIP. For Clamp Nails. CLAMP NAIL COMPANY, Chicago, Ill. Published April 25, 1928.

11,142.—*Title:* SIEGLER. For Clamp Nails. CLAMP NAIL COMPANY, Chicago, Ill. Published April 25, 1928.

11,143.—*Title:* LONG CHEW GUM (CASE #2). For Chewing Gum. CLARK BROTHERS CHEWING GUM CO., Pittsburgh, Pa. Published April 10, 1928.

11,144.—*Title:* PIONEER FENCE. For Wire Fencing. CONTINENTAL STEEL CORPORATION, Kokomo, Ind. Published May 3, 1928.

11,145.—*Title:* FRASIK'S RED SEAL ASPIRIN. For Aspirin. A. M. FRASIK & SON CO., Detroit, Mich. Published January 1, 1927.

11,146.—*Title:* WE DISCOVERED A BETTER WAY. For Peanut Butter. H. J. HEINZ COMPANY, Pittsburgh, Pa. Published July 1, 1928.

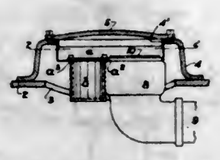
11,147.—*Title:* NATIONAL SHELTER GROUP. For Colored Inserts for Magazines. WALTER C. MCMILLAN INC., New York, N. Y. Published April 1, 1928.

11,148.—*Title:* GIVE HER A SILVERWARE SHOWER. For Heirloom Plate Silverware. WM. A. ROGERS, LTD., Niagara Falls, N. Y. Published June 8, 1928.

REISSUES

AUGUST 7, 1928.

17,058. LOCOMOTIVE STEAM PURIFIER. CHARLES GILBERT HAWLEY, Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio, a Corporation of Ohio. Filed May 26, 1928. Serial No. 280,863. Original No. 1,668,905, dated May 8, 1928, Serial No. 27,852, filed May 4, 1925. 10 Claims. (Cl. 122—492.)



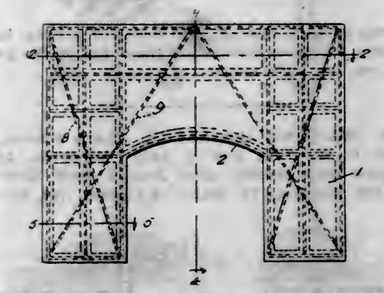
8. A steam boiler having an opening in the top of its shell, in combination with a steam dome positioned above and closing said opening, means cooperating with a portion of the enclosing wall of said dome to form a dry steam compartment within said dome, centrifugal steam drying means also positioned in said dome and wholly in advance of and in communication with said compartment, whereby moisture is excluded from said compartment and only dry steam is supplied thereto, and a dry pipe rising through said opening into said dome and in communication with said compartment.

17,059. ADJUSTABLE PACKING FOR HYPODERMIC SYRINGES. GEORGE N. HEIN, San Francisco, Calif., assignor to Neutype Instrument Company, San Francisco, Calif., a Corporation of California. Filed Nov. 16, 1927. Serial No. 233,696. Original No. 1,561,854, dated Nov. 17, 1925, Serial No. 734,208, filed Aug. 26, 1924. 5 Claims. (Cl. 128—218.)



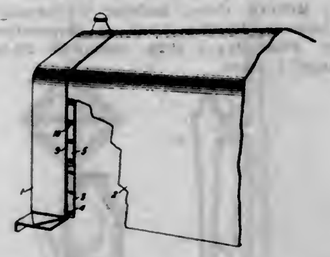
4. A hypodermic syringe comprising a barrel, a piston therein, a normally flat, relatively thin, square-edged elastic packing member on said piston, and a retaining member for said elastic packing member, said piston having a surface adjacent the packing member formed with beveled corners, whereby when the piston is moved inwardly the packing member will be deflected and present an edge contact against the barrel, minimizing thereby the friction between the packing member and barrel, and increasing the pressure of the packing member on the barrel in a radial direction.

17,060. CEMENT MANTEL. RUFUS T. WOODARD, Oakland, Calif. Filed Sept. 9, 1926. Serial No. 134,381. Original No. 1,527,723, dated Feb. 24, 1925, Serial No. 716,024, filed May 26, 1924. 5 Claims. (Cl. 72—0.5.)



1. A cement mantel of a predetermined formation provided at its lower portion and between its side edges with a fire place opening, a flange surrounding the edges of the mantel, and ribs disposed along the interior surface of the mantel of a depth shorter than the flanges whereby to permit free circulation of air at the rear surface of the mantel within the space defined by the flanges.

17,061. JOINT STRIP. HANS G. JORGENSEN, Erie, Pa., assignor, by mesne assignments, to General Electric Company, a Corporation of New York. Filed June 21, 1928. Serial No. 287,258. Original No. 1,632,903, dated June 21, 1927, Serial No. 641,374, filed May 25, 1923. 3 Claims. (Cl. 180—69.)

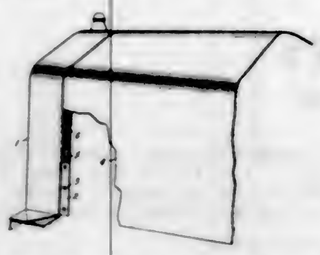


1. A joint strip of yielding material with projections formed on one face adapted to enter perforations on a joint member to secure the strip in place, the yielding material permitting a variation in the distance between the projections.

17,062. JOINT STRIP. HANS G. JORGENSEN, Erie, Pa., assignor, by mesne assignments, to General Electric Company, a Corporation of New York. Filed June 21, 1928. Serial No. 287,259. Original No. 1,653,012, dated Dec. 20, 1927, Serial No. 653,781, filed July 25, 1923. 2 Claims. (Cl. 180—69.)

1. A joint strip of yielding and stretchable material with projections formed on one face thereof adapted to

enter perforations in a joint member to secure the strip in place, said projections comprising an undercut portion adapted to yieldingly enter the perforations and hold



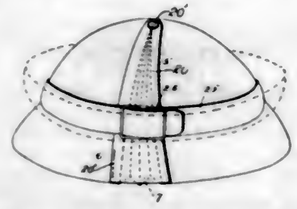
the strip in place thereon, said undercut portion having a tapered extension facilitating the entry of the projections into the perforations.

17,063. WASHING APPARATUS. JAMES DRAPER, San Juan, P. R. Filed Sept. 9, 1925. Serial No. 55,405. Original No. 1,496,660, dated June, 3, 1924, Serial No. 575,162, filed July 15, 1922. 18 Claims. (Cl. 68—18.)



1. Apparatus for washing clothes and similar articles comprising, in a single apparatus, means for combining in one continuous operation the acts of washing, rinsing, tumbling and drying, said means comprising an outer casing having an opening in a vertical end thereof, a closure for said opening, an inner foraminous container capable of passing through said opening into said casing, means for rotating said container in operative position within said casing on a substantially horizontal axis, said casing having openings through which washing and heating fluids may be introduced therein and air withdrawn therefrom while said container is within said casing.

17,064. ADJUSTABLE HAT. PHILIP A. FISCHER, New York, N. Y., assignor to Adjusto Hat Corporation, a Corporation of New York. Filed June 11, 1928. Serial No. 284,630. Original No. 1,663,124, dated Mar. 20, 1928, Serial No. 603,175, filed Nov. 25, 1922. 11 Claims. (Cl. 2—175.)

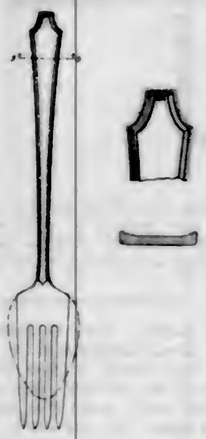


1. An adjustable hat of generally conventional design, having a few closely grouped, pleats in one side thereof, the pleats beginning in the crown of the hat and extending downwardly and outwardly into the brim of the hat the rest of the hat having the usual smooth outer surface, the pleats gradually widening toward the lower or brim end thereof, means engageable with the hat on opposite sides of the pleats for holding the pleats in various positions for varying the head size of the hat, and a covering member for concealing the pleats.

DESIGNS

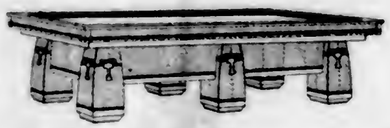
AUGUST 7, 1928.

75,950. FORK OR SIMILAR ARTICLE. ERNEST T. BECK, Meriden, Conn., assignor to International Silver Company, Meriden, Conn., a Corporation of New Jersey. Filed May 3, 1928. Serial No. 26,548. Term of patent 7 years.



The ornamental design for a fork or similar article as shown.

75,951. GAME TABLE. HANS BERG, Grand Rapids, Mich., assignor to The Brunswick-Balke-Collender Co., Chicago, Ill., a Corporation of Delaware. Filed May 25, 1928. Serial No. 26,850. Term of patent 3½ years.



The ornamental design for a game table substantially as shown.

75,952. GAME TABLE. HANS BERG, Grand Rapids, Mich., assignor to The Brunswick-Balke-Collender Co., Chicago, Ill., a Corporation of Delaware. Filed May 25, 1928. Serial No. 26,851. Term of patent 3½ years.



The ornamental design for a game table substantially as shown.

75,953. JAR OR SIMILAR CONTAINER. HENRI CHARPENTIER, Lynbrook, N. Y. Filed June 6, 1928. Serial No. 27,018. Term of patent 3½ years.



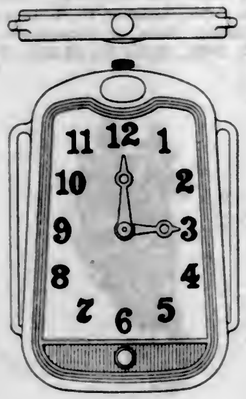
The ornamental design for a jar or similar container, as shown.

75,954. JAR OR SIMILAR CONTAINER. HENRI CHARPENTIER, Lynbrook, N. Y. Filed June 6, 1928. Serial No. 27,019. Term of patent 3½ years.



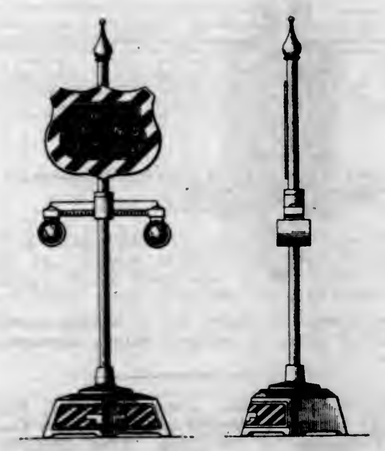
The ornamental design for a jar or similar container, as shown.

75,955. WRIST WATCH. HARRY I. CRAMER, Dayton, Ohio, assignor to The Sterling Jewelry Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 20, 1928. Serial No. 25,494. Term of patent 7 years.



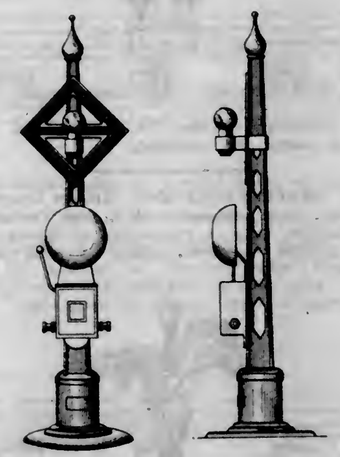
The ornamental design for a wrist watch, as shown.

75,956. HIGHWAY SIGNAL FOR TOY RAILWAYS. JAMES E. CUFF, Chicago, Ill., assignor to American Flyer Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 2, 1928. Serial No. 26,967. Term of patent 7 years.



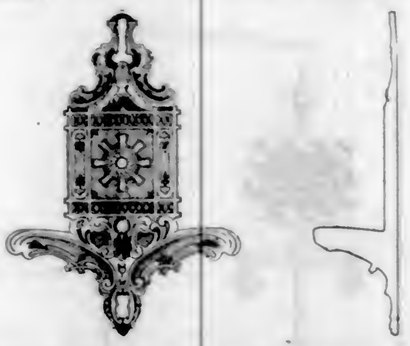
The ornamental design for a highway signal for toy railways, as shown.

75,957. DANGER SIGNAL FOR TOY RAILWAYS. JAMES E. CUFF, Chicago, Ill., assignor to American Flyer Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 2, 1928. Serial No. 26,968. Term of patent 7 years.



The ornamental design for a danger signal for toy railways, as shown.

75,958. LIGHTING-FIXTURE WALL BRACKET OR ARTICLE OF ANALOGOUS NATURE. JOHN DI GAUDIO, Brooklyn, N. Y., assignor to Modern Lighting Fixture Co., Inc., a Corporation of New York. Filed June 2, 1928. Serial No. 26,978. Term of patent 3½ years.



The ornamental design for a lighting-fixture wall bracket or article of analogous nature, substantially as shown.

75,959. CHANDELIER. JOHN DI GAUDIO, Brooklyn, N. Y., assignor to Modern Lighting Fixture Co., Inc., a Corporation of New York. Filed June 2, 1928. Serial No. 26,979. Term of patent 3½ years.



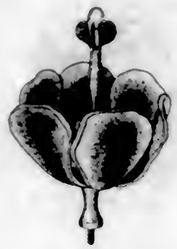
The ornamental design for a chandelier substantially as shown and described.

75,960. DRAPERY-POLE END. AUGUST DLOUHY, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed May 2, 1928. Serial No. 26,533. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

75,961. DRAPERY-POLE END. AUGUST DLOUHY, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed May 2, 1928. Serial No. 26,534. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

75,962. DRAPERY-POLE END. AUGUST DLOUHY, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed May 2, 1928. Serial No. 26,535. Term of patent 3½ years.



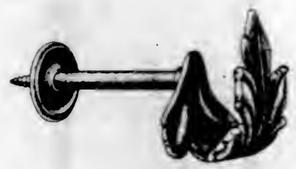
The ornamental design for a drapery pole end, as shown.

75,963. DRAPERY-POLE BRACKET. AUGUST DLOUHY, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed May 2, 1928. Serial No. 26,537. Term of patent 3½ years.



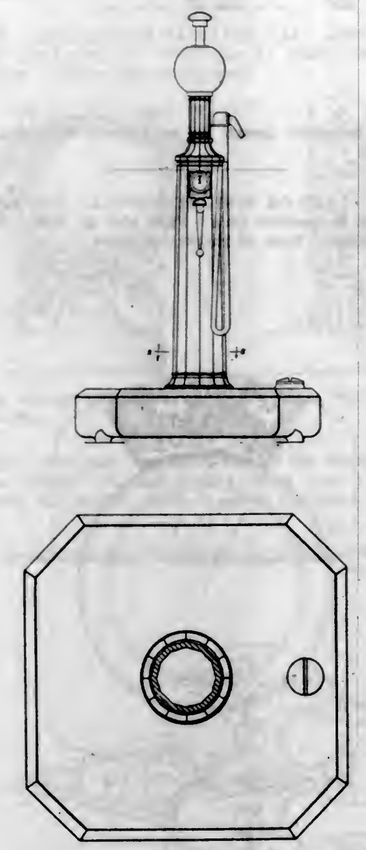
The ornamental design for a drapery pole bracket, as shown.

75,964. DRAPERY-POLE BRACKET. AUGUST DLOUHY, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed May 2, 1928. Serial No. 26,538. Term of patent 3½ years.



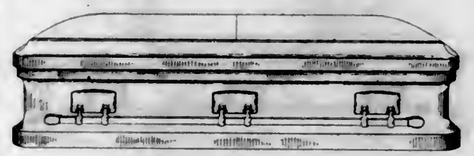
The ornamental design for a drapery pole bracket, as shown.

75,965. GASOLINE-PUMPING APPARATUS. EARL E. EICKMEYER and HOWARD L. JONES, Dayton, Ohio, assignors to The Dayton Pump Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Aug. 15, 1927. Serial No. 23,090. Term of patent 7 years.



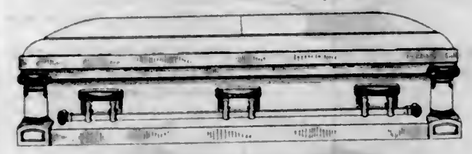
The ornamental design for a gasoline pumping apparatus, as shown.

75,966. BURIAL CASKET. JOSEPH E. FALCK, Pittsburgh, Pa., assignor to National Casket Company, Pittsburgh, Pa., a Corporation of New York. Filed June 5, 1928. Serial No. 26,998. Term of patent 3½ years.



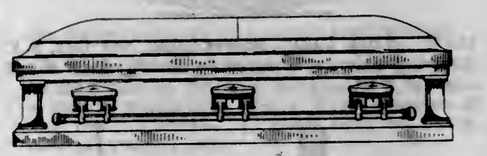
The ornamental design for a burial casket, as shown.

75,967. BURIAL CASKET. JOSEPH E. FALCK, Pittsburgh, Pa., assignor to National Casket Company, Pittsburgh, Pa., a Corporation of New York. Filed June 5, 1928. Serial No. 26,999. Term of patent 3½ years.



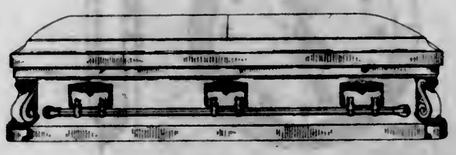
The ornamental design for a burial casket, as shown.

75,968. BURIAL CASKET. JOSEPH E. FALCK, Pittsburgh, Pa., assignor to National Casket Company, Pittsburgh, Pa., a Corporation of New York. Filed June 5, 1928. Serial No. 27,000. Term of patent 3½ years.



The ornamental design for a burial casket, as shown.

75,969. BURIAL CASKET. JOSEPH E. FALCK, Pittsburgh, Pa., assignor to National Casket Company, Pittsburgh, Pa., a Corporation of New York. Filed June 5, 1928. Serial No. 27,001. Term of patent 3½ years.



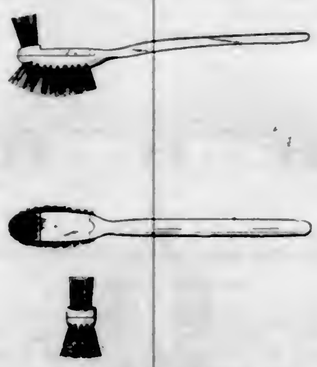
The ornamental design for a burial casket, as shown.

75,970. BURIAL CASKET. JOSEPH E. FALCK, Pittsburgh, Pa., assignor to National Casket Company, Pittsburgh, Pa., a Corporation of New York. Filed June 5, 1928. Serial No. 27,002. Term of patent 3½ years.



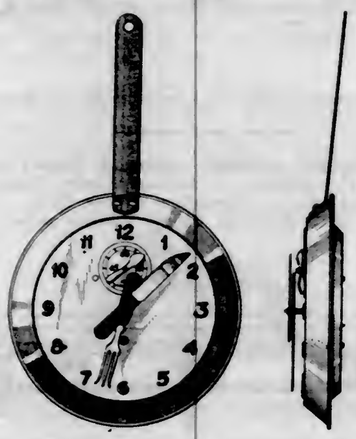
The ornamental design for a burial casket as shown.

75,971. DENTURE BRUSH. HARRY W. FAUBERT and EDWARD E. WHEELOCK, Woonsocket, R. I. Filed Mar. 20, 1928. Serial No. 25,932. Term of patent 14 years.



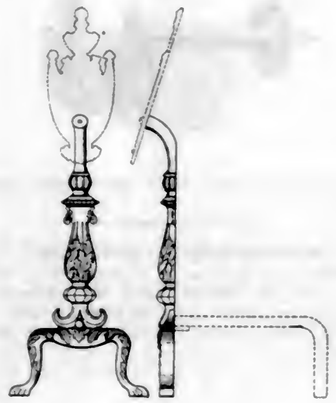
The ornamental design for a denture brush, as shown.

75,972. CLOCK CASE. EUGENE GARAY, New York, N. Y. Filed May 10, 1927. Serial No. 21,919. Term of patent 14 years.



The ornamental design for a clock case, as shown.

75,973. ANDIRON. HENRY JOHN GROSS, Chicago, Ill. Filed Apr. 6, 1928. Serial No. 26,155. Term of patent 7 years.



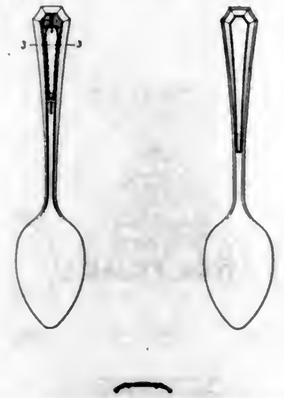
The ornamental design for an andiron as shown and described.

75,974. PLATE OR SIMILAR ARTICLE. MATTHEW A. HANSE, Barnesville, Ohio. Filed May 31, 1928. Serial No. 26,936. Term of patent 3½ years.



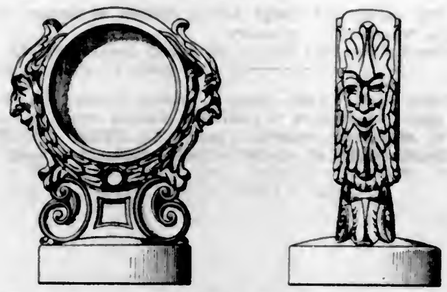
The ornamental design for a plate or similar article, as shown and described.

75,975. SPOON OR SIMILAR ARTICLE. HENRIK HILLBOM, Wallingford, Conn., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn., a Corporation. Filed May 11, 1928. Serial No. 26,636. Term of patent 7 years.



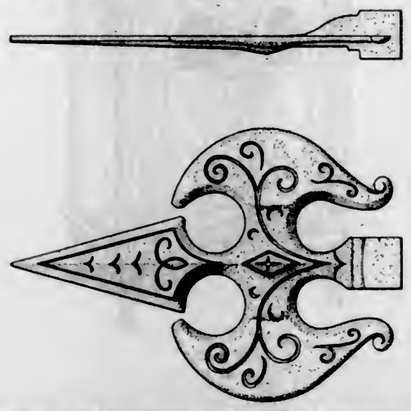
The ornamental design for a spoon or similar article as shown.

75,976. AUTOMOBILE RADIATOR CAP. IRWIN HUEBNER, Allentown, Pa. Filed Jan. 11, 1928. Serial No. 24,809. Term of patent 14 years.



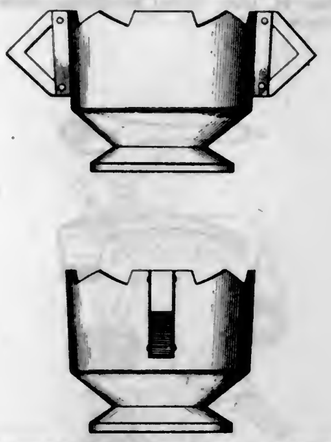
The ornamental design for an automobile radiator cap, as shown.

75,977. END FOR DRAPERY POLES OR RODS. GUNNAR MADVIG, Oakland, Calif. Filed Apr. 18, 1928. Serial No. 26,372. Term of patent 3½ years.



The ornamental design for an end for drapery poles or rods substantially as shown.

75,978. BOWL OR SIMILAR ARTICLE OF SILVERWARE. LOUIS MAUTNER, Brooklyn, N. Y. Filed May 21, 1928. Serial No. 26,782. Term of patent 7 years.



The ornamental design for a bowl or similar article of silverware, as shown and described.

75,979. CUSHION STOOL. HERBERT H. METZGAR, Los Angeles, Calif. Filed Dec. 15, 1927. Serial No. 24,492. Term of patent 14 years.



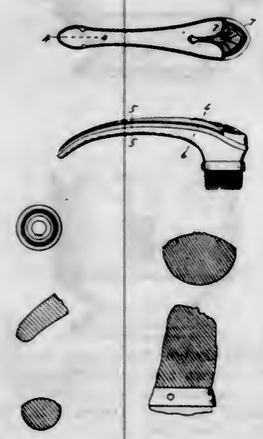
The ornamental design for a cushion stool, as shown.

75,980. BOTTLE CONTAINER OR SIMILAR ARTICLE. CHARLES LEONARD PFEIFFER, Bayside, N. Y., assignor to Richard Hudnut, New York, N. Y., a Corporation of New York. Filed Feb. 21, 1928. Serial No. 25,529. Term of patent 14 years.



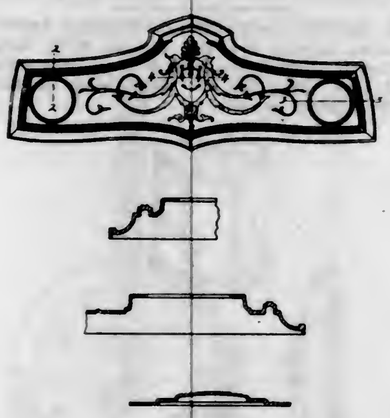
The ornamental design for a bottle container or similar article.

75,981. DOOR-WINDOW REGULATOR HANDLE. JOHN J. PUNKE, Detroit, Mich., assignor to Hupp Motor Car Corporation, Detroit, Mich., a Corporation of Michigan. Filed May 28, 1928. Serial No. 26,893. Term of patent 7 years.



The ornamental design for a door window regulator handle, substantially as shown.

75,982. DOOR-CONTROL GARNISH PANEL. JOHN J. PUNKE, Detroit, Mich., assignor to Hupp Motor Car Corporation, Detroit, Mich., a Corporation of Michigan. Filed May 28, 1928. Serial No. 26,894. Term of patent 7 years.



The ornamental design for a door control garnish panel, substantially as shown.

75,983. EMBLEM OR SIMILAR ARTICLE. EFFIE R. REDMAN, Chicago, Ill., assignor to Supreme Guardian Council of the Order of Job's Daughters, Omaha, Nebr. Filed Jan. 4, 1927. Serial No. 20,277. Term of patent 14 years.



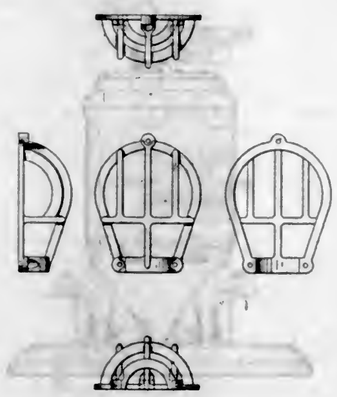
The ornamental design for an emblem or similar article, substantially as shown.

75,984. GOLF TEE. OTTO F. REICH, Chicago, Ill., assignor of one-third to Charles F. Church and one-third to William T. Church, Chicago, Ill. Filed Apr. 18, 1928. Serial No. 26,367. Term of patent 14 years.



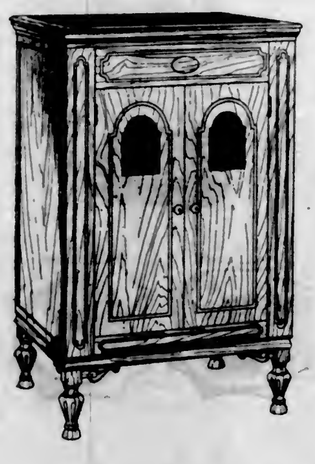
The ornamental design for a golf tee as shown.

75,985. LIGHT-BULB GUARD MEMBER. JEROME B. ROCKHILL, New York, N. Y. Filed May 18, 1928. Serial No. 26,730. Term of patent 3½ years.



The ornamental design for a light bulb guard member substantially as shown.

75,986. STOVE. ARTHUR A. ROESCH, Belleville, Ill., assignor to Roesch Enamel Range Co., Belleville, Ill., a Corporation of Illinois. Filed Apr. 30, 1928. Serial No. 26,519. Term of patent 7 years.



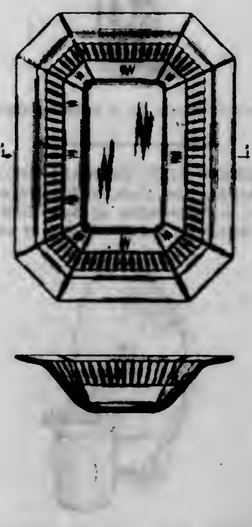
The ornamental design for a stove as shown.

75,987. DISPLAY SIGN. PETER JAY SCHELS, Fort Worth, Tex. Filed Sept. 23, 1927. Serial No. 25,534. Term of patent 7 years.



The ornamental design for a display sign as shown.

75,988. SQUARE BAKER. ELLSWORTH H. SEBRING, Sebring, Ohio, assignor to The E. H. Sebring China Company, Sebring, Ohio, a Corporation of Ohio. Filed Dec. 2, 1926. Serial No. 19,905. Term of patent 7 years.



The ornamental design for a square baker, as shown.

75,989. LAMP. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed May 4, 1928. Serial No. 26,567. Term of patent 3½ years.



The ornamental design for a lamp as shown.

75,990. SMOKING STAND. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed May 18, 1928. Serial No. 26,737. Term of patent 3½ years.



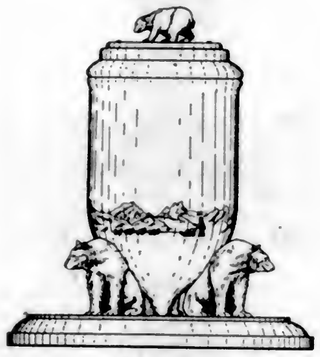
The ornamental design for a smoking stand as shown.

75,991. LIGHTING-FIXTURE WALL BRACKET. WALTER VON NESSEN, New York, N. Y., assignor to Efcolite Corporation, a Corporation of New York. Filed May 24, 1928. Serial No. 26,836. Term of patent 7 years.



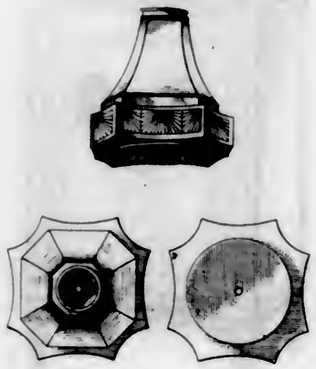
The ornamental design for a lighting-fixture wall bracket substantially as shown and described.

75,992. DISPLAY CONTAINER OR SIMILAR ARTICLE. GEORGE R. WEBBER, Augusta, Me. Filed Mar. 17, 1928. Serial No. 25,899. Term of patent 14 years.



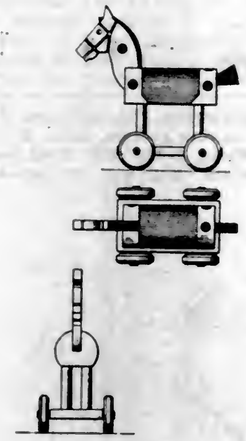
The ornamental design for a display container or similar article, as shown.

75,993. LIGHTING FIXTURE. GEORGE RICHARD WINKEL, Philadelphia, Pa., assignor to N. E. Henderson & Son, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 25, 1928. Serial No. 26,449. Term of patent 14 years.



The ornamental design for a lighting fixture, as shown.

75,994. FIGURE TOY. CHARLOTTE L. YALE and ELEANOR P. VANCE, Tryon, N. C. Filed May 8, 1928. Serial No. 26,610. Term of patent 7 years.



The ornamental design for a figure toy, as shown.

75,995. LIGHTING FIXTURE. JOSEPH ZWEIG, Brooklyn, N. Y., assignor to Metropolitan Lamp Co. Inc., New York, N. Y., a Corporation of New York. Filed May 19, 1928. Serial No. 26,767. Term of patent 3½ years.

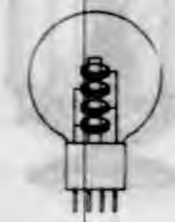


The ornamental design for a lighting fixture substantially as shown.

PATENTS

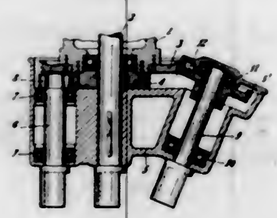
GRANTED AUGUST 7, 1928.

1,679,341. DETECTOR CONDENSER. JOHN JAMES AERYNGER, Brooklyn, N. Y. Filed Feb. 24, 1922. Serial No. 539,002. 3 Claims. (Cl. 250—27.5.)



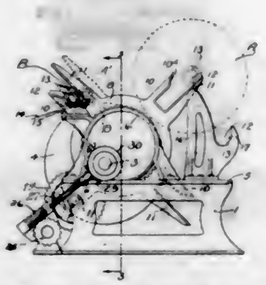
2. A vacuum tube device for detecting and amplifying wireless electric waves, comprising an evacuated vessel, a filament therein, a plurality of groups of metallic plates spaced apart from each other and in alignment parallel with and surrounding said filament, arranged in parallel concentric relation with each other, said plates being joined to form alternate and consecutive groups.

1,679,342. MACHINE FOR STIRRING AND BEATING DOUGH AND LIKE MATERIALS. FRIEDRICH AESCHBACH, Aarau, Switzerland, assignor to The Artofex Corporation, New York, N. Y. Filed Apr. 13, 1926, Serial No. 101,619, and in Switzerland Apr. 18, 1925. 2 Claims. (Cl. 74—34.)



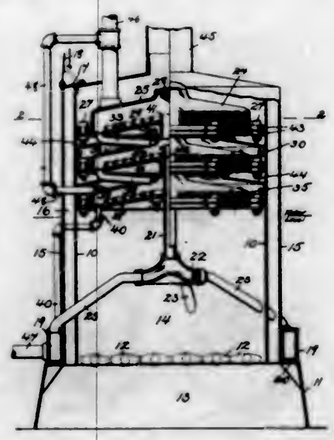
1. In a device of the kind and for the purpose described, the combination of a rotatable central shaft, a head rotatable about the central shaft, a spindle for carrying an implement rotatably mounted in said head parallel with said shaft, and a second spindle for carrying an implement rotatably mounted in said head at an angle with said shaft, which shaft extends downwards beyond said head and is adapted to carry an implement, and means for rotating said spindles each about its longitudinal axis when revolving about the central shaft, substantially as described.

1,679,343. MECHANISM FOR REELING PAPER AND THE LIKE. ALONZO ALDRICH, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis. Filed Dec. 15, 1923. Serial No. 680,819. 9 Claims. (Cl. 242—64.)



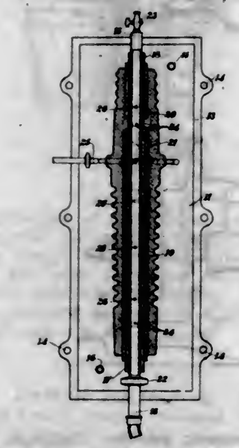
3. In a mechanism of the class described, a frame, material propelling means thereon, movable means outside of the propelling means for supporting a plurality of material receiving reels, means on the frame for supporting said last mentioned means, and means driven from the propelling means and extending inside the supporting means for operating the reel supporting means.

1,679,344. STEAM BOILER. EARL S. ALEXANDER and CARL Z. ALEXANDER, Newark, N. J., assignors, by mesne assignments, to Edwin C. Seward, Jersey City, N. J. Filed Jan. 15, 1921. Serial No. 437,415. 27 Claims. (Cl. 122—40.)



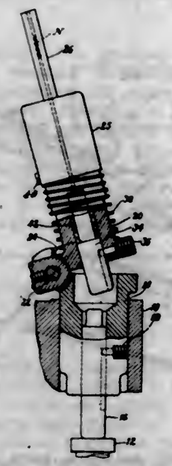
5. A steam boiler comprising a reservoir having a central open space at the base of the boiler, a geyser tube extending above the water level in said reservoir, heating means in the central open space of said reservoir, a header over said heating means into which the geyser tube delivers water, means for conducting water from the reservoir to the geyser tube and heating it more than the water in the reservoir, and means for conducting water back into the reservoir from said header.

1,679,345. METHOD AND APPARATUS FOR CASTING CERAMIC PIECES. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed July 2, 1926. Serial No. 120,091. 15 Claims. (Cl. 25—129.)



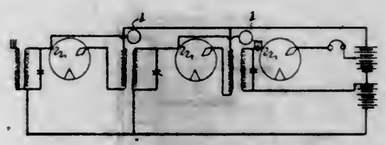
1. The method of manufacturing ceramic articles comprising the steps of depositing plastic material from a slip about a yielding core and removing the core from the formed piece.

1,679,346. SUPPORT. WILLIAM RODERICK BARCLAY, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 20, 1924. Serial No. 721,192, and in Great Britain Nov. 17, 1923. 11 Claims. (Cl. 1—32.)



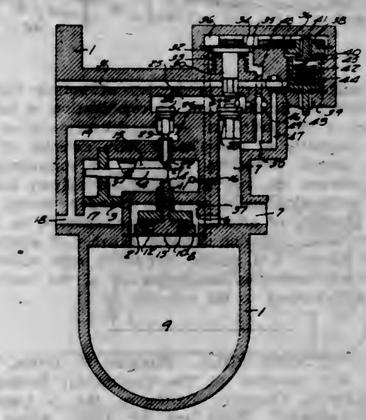
1. A work-support comprising supporting members movable independently longitudinally of the work-support under the influence of the work, and retaining means controlled in such movement for securing a member against movement.

1,679,347. RADIOCIRCUITS. ROBERT BELL, Hanover, Ontario, Canada. Filed Sept. 7, 1926. Serial No. 134,018. 1 Claim. (Cl. 179—171.)



An electric circuit arrangement for a radio receiving set employing tuned radio-frequency amplification including a tuning condenser and a radio frequency transformer wound on a hollow core, comprising means for capacitatively stabilizing the circuit for short wave lengths the transformer being positioned so that as the movable plates of the tuning condenser are withdrawn from between the stationary plates of the condenser they dip into the hollow core of the transformer and more or less neutralize the stabilizing effect of the aforesaid stabilizing means.

1,679,348. DISTRIBUTOR FOR FLUID-PRESSURE BRAKES. DOBRIVOJE BOŽIC, Belgrade, Servia. Filed Feb. 23, 1927, Serial No. 170,159½, and in France Feb. 23, 1926. 5 Claims. (Cl. 303—39.)

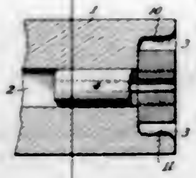


2. A compressed air brake distributor comprising an intermediate chamber between the main pipe, the auxiliary reservoir and the brake cylinder characterised by an outlet valve which allows air from the pipe to pass into the brake cylinder as soon as the admission valve is open and which is closed by the piston rod of the commutator piston located between the isolated chamber and the pipe as soon as the difference of pressures on it becomes greater than the tension of the spring.

1,679,349. METHOD OF FORMING PROJECTIONS IN RECESSES. GEORGE BROWN, Oneonta, and ABRAHAM B. APPLER, Albany, N. Y. Filed May 7, 1924. Serial No. 711,735. 2 Claims. (Cl. 29—148.)

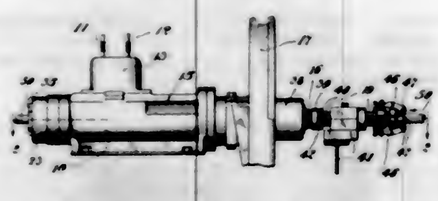
1. The herein described method of forming an irregular shaped recess in a crank pin or the like having a recess

in the end thereof, which consists in placing in said recess a die of the shape to form the irregular shaped recess and of a size not to entirely fill the recess, then filling



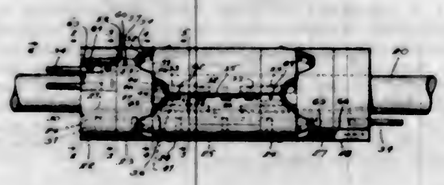
the space between the die and the wall of the recess with metal, and then securing the metal received in the space to the wall of the recess.

1,679,350. MACHINE FOR EXTRUDING TUBULAR ARTICLES. CHARLES T. DICKEY, Elizabeth, N. J., assignor to Rodic Rubber Company, Garwood, N. J., a Corporation of New Jersey. Filed Jan. 26, 1926. Serial No. 83,937. 1 Claim. (Cl. 18—14.)



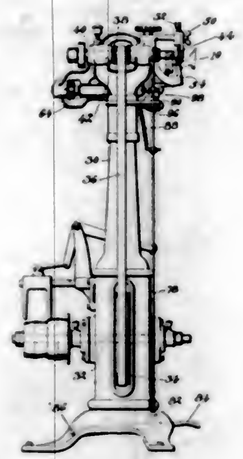
In a machine for the production of hollow tubular devices from plastic materials, in combination, a hollow feed worm, a die positioned at the delivery end of the worm, a plurality of assembled collars exterior of the die and spaced therefrom forming an uninterrupted chamber between the feed worm and the delivery end of the die, a longitudinally movable mandril within the worm, a plurality of pivoted centering members, an idler carried by each centering member capable of abutment upon the mandril and means carried by each centering member for determining the inclination of the centering member with respect to the mandril.

1,679,351. CUTTING ROLL. CHARLES W. DORM, Baltimore, Md., assignor to The Continental Roofing & Manufacturing Company, Baltimore, Md., a Corporation of Delaware. Filed Apr. 13, 1926. Serial No. 101,646. 18 Claims. (Cl. 164—28.)



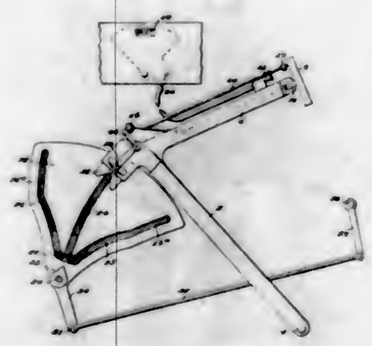
4. A roll for cutting a strip from a sheet, comprising a shaft, a plurality of cutting elements adjustably mounted on said shaft and attaching means carried by certain of said elements for the reception of additional cutting elements, whereby strips of varying widths may be formed as desired.

1,679,352. TRIMMING MACHINE. HARRY DUCKWORTH, Overland, Mo., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 14, 1927. Serial No. 198,714. 13 Claims. (Cl. 12—88.)



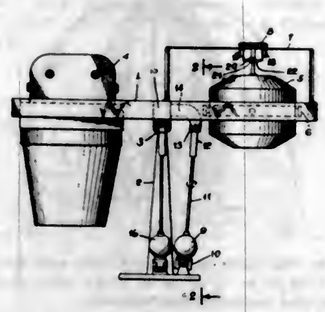
1. A toplift-trimming machine comprising a power-operated trimming cutter arranged to trim the contour of a toplift attached to a heel, an angularly adjustable tread-rest, and means arranged to shift said tread-rest back and forth from one to the other of two operative positions angularly related to each other and to maintain the tread-rest in one of said positions.

1,679,353. SELECTIVE-GEAR-SHIFTING MECHANISM. ROBERT N. DULANEY, Blountville, Tenn. Filed July 14, 1926. Serial No. 122,381. 7 Claims. (Cl. 74—58.)



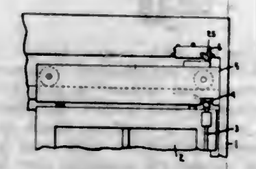
1. In a gear shift control a clutch, a clutch operating lever, a pedal mounted to turn upon two intersecting axes on said lever, and independent connections from said pedal to gear selecting mechanism, one of said connections being operable when the pedal is rocked about one axis and the other connection being operable when the pedal is rocked about the other axis.

1,679,354. GYROSCOPIC CONTROL OF CAMERAS AND OTHER OPTICAL DEVICES. SHERMAN M. FAIRCHILD and EDMUND R. MORTON, New York, N. Y.; said Morton assignor to said Fairchild. Filed Mar. 1, 1923. Serial No. 622,036. 1 Claim. (Cl. 74—78.)



The combination of an aerial camera and a universal support therefor, an erected gyroscope universally mounted in the camera support, and automatic means substantially free from mechanical reaction upon the gyroscope and responsive to relative movement of the camera to maintain the latter in a predetermined orientation with respect to the gyroscope.

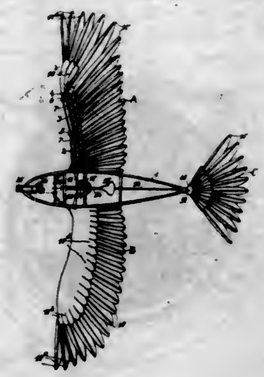
1,679,355. SWITCH MECHANISM. THOMAS E. GRIFFITH and LEE L. DODDS, Cleveland, Ohio, assignors to The W. S. Tyler Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 5, 1923. Serial No. 623,058. 3 Claims. (Cl. 200—54.)



1. The combination of a pivotally mounted switch member; contact members cooperating therewith; an operating link connected to said switch member; a horizontally sliding member consisting of an inclined plate adapted to engage the end of said link to rock said switch member about its pivot when said member is moved in one direction; and a pivoted trackway cooperating with said inclined trackway to hold said link and switch member in contacting relation during a part of the travel of said member in the opposite direction.

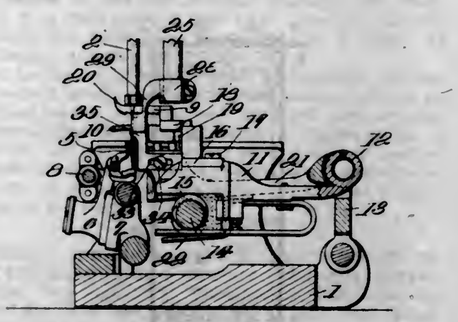
1,679,356. AEROPLANE. HEINRICH GRUNEWALD, Dissen, Germany. Filed Dec. 22, 1927. Serial No. 241,875, and in Germany May 3, 1927. 8 Claims. (Cl. 244—20.)

1. In an aeroplane, the combination with a frame thereof, an aviator's seat therein, a steering lever in front of said seat, two lateral striking wings and a tail pivotally connected to said frame, of a rotary gearing for operating said wings, a skeleton for each wing consisting of bars linked to each other at different angles, parallelogram guides for tightening said bars, adjustable wing feathers and a thumb wing on said skeleton, like the wing feathers and the thumb wing of birds, said thumb wing being turnable up and down during the wing stroke about the front edge of the wing and the outer wing feathers participating in said turning movement thereby creating a troughlike formation of the wing during its stroke, and a pulling cord to intentionally adjust said thumb wing and outer wing feathers also



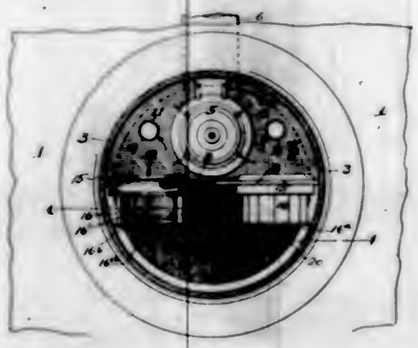
from said steering lever, said tail consisting of feathers like a bird's tail and being adjustable from the aviator's seat to the right and left and in up- and downward directions while its feathers can be spread and closed.

1,679,357. SEWING MACHINE. NATHAN E. HANSON, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 8, 1923. Serial No. 667,261. 2 Claims. (Cl. 112—207.)



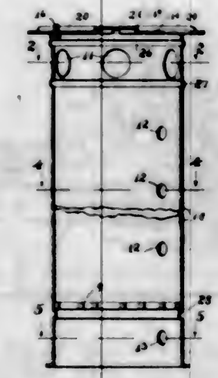
1. The combination of a work support, stitch-forming mechanism including a single reciprocating needle, a feeding mechanism including an upper feed dog and a lower feed dog, said feed dogs being located at one side of said needle and operating to clamp and feed the material which is being stitched, a presser foot at one side of said feed dog adjacent the needle and adapted to cooperate with the work support in the holding of the material during the idle stroke of the feed dogs, said presser foot having a depending member rigid therewith projecting beneath the plane of the work support and serving to guide the edge of the material, said lower feed dog having an upwardly projecting portion adapted to freely engage the depending portion on the presser foot for raising the presser foot, said depending member on the presser foot and said upwardly projecting portion of the feed dog being so formed and timed as to lift the presser foot from the material before the feed dog clamps the material, and while the needle is still in the material on its retracting stroke, whereby the material may be turned about the needle as a pivot to aid in turning sharp corners or curves.

1,679,358. STEAM PURIFIER FOR LOCOMOTIVE BOILERS. CHARLES GILBERT HAWLEY, Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 28, 1924. Serial No. 752,725. 5 Claims. (Cl. 122—492.)



1. A locomotive boiler, its steam dome and dry pipe positioned in the latter, in combination with a partial floor in said dome, a vertical partition which, with said floor, divides the dome into wet and dry steam compartments, said dry pipe being located in the dry steam compartment, and a steam purifier opening through said vertical partition.

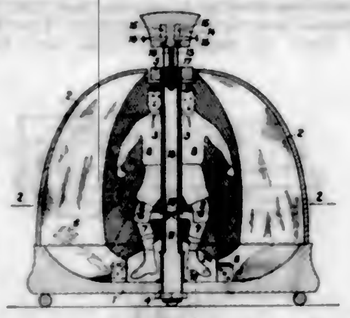
1,679,359. ORCHARD HEATER. BERNARD O. JESSEN, Los Angeles, Calif. Filed June 29, 1926. Serial No. 119,373. 3 Claims. (Cl. 126—59.5.)



2. In an orchard heater, a casing having outlet openings towards all lateral sides for the products of combustion and having inlet openings for air supply at points below the first-named openings and along one side of the casing only.

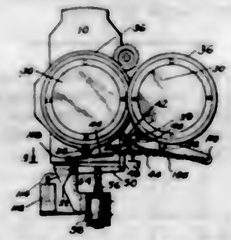
1,679,360. DIE-THROWING DEVICE. JACOB JUNG, Hamburg, Germany. Filed Dec. 3, 1927, Serial No. 237,548, and in Germany Dec. 9, 1926. 6 Claims. (Cl. 273—145.)

1. A die throwing device of the character described, comprising a base, a glass bell supported on said base, an upright tube connected to the base and projecting through said bell, radial partitions dividing the space under the bell into chambers, brackets connected to the tube in each chamber, a cranked die throwing hammer suspended pivotally from said brackets with its crank arm projecting through a slot into the tube, a rod guided within the tube for operating the hammer by engagement with its crank arm, and a knob supported by a



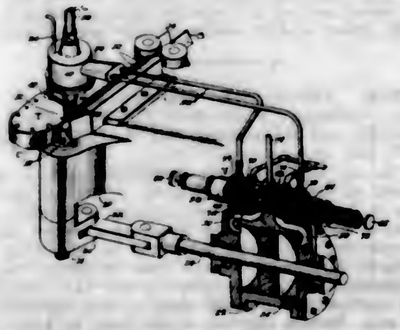
spring on the upper end of the tube and over the ends of the rods so as to allow of being used for depressing the rods and operating the hammers.

1,679,361. SPOTLIGHT. JOHN H. KLIEGL, New York, N. Y., assignor to Kliegl Bros. Universal Electric Stage Lighting Co., Inc., New York, N. Y., a Corporation of New York. Filed Dec. 14, 1926. Serial No. 154,701. 2 Claims. (Cl. 240—3.)



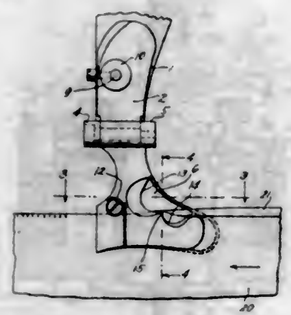
1. In combination with a spot light, a color screen, having operative and non-operative positions, a magnet, means connecting said magnet to said screen whereby upon energization of said magnet said screen is moved to operative position, a resilient device to return said screen to inoperative position when said magnet is de-energized, and means for assisting said magnet starting the movement of the screen from its inoperative to its operative position.

1,679,362. CONTROLLING MECHANISM. CUTLER D. KNOWLTON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 18, 1924. Serial No. 707,523. 17 Claims. (Cl. 153—44.)



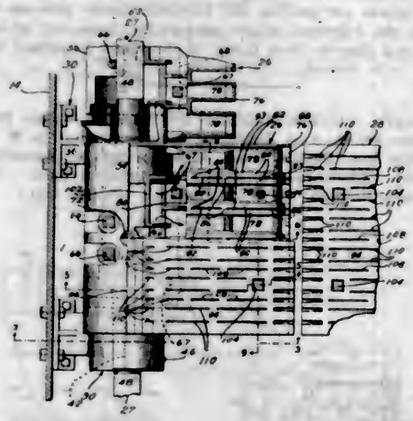
1. The combination with an operating member movable in its action upon the work, of a controlling member governed in its movement by the work in accordance with the position thereof, and means arranged to move the operating member at a rate varying progressively as the position of the controlling member varies.

1,679,363. WORK GUIDE FOR OVERSEAMING MACHINES. MAX KÖHLER, Limbach, Germany. Filed May 11, 1927. Serial No. 190,480. 2 Claims. (Cl. 112—20.)



1. A fabric guide and presser for overseaming machines, comprising a curl flattening member and a top edge fabric guide extending therethrough, said flattening member having a bevel provided with an irregular fabric encountering edge and a shoulder interrupting said bevel at an intermediate portion and presenting an edge in a plane at right angles to the plane of said irregular edge.

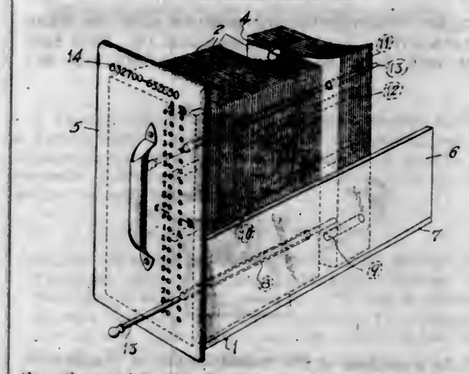
1,679,364. FURNACE. EDWIN LUNDGREN, Frederick, Md., assignor to Combustion Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 16, 1923. Serial No. 668,799. 10 Claims. (Cl. 110—32.)



1. A furnace having, in combination, two brackets of hollow construction provided with bearings arranged in alinement, a rock shaft extending through said bearings in said brackets, and a dump grate of hollow construction mounted on said shaft between said brackets, said brackets and dump grate having registering openings in the adjacent sides thereof leading from the interior of said brackets and into the interior of said dump grate.

1,679,365. FILING OR INDEXING APPLIANCE. WILLARD D. MCFALL, East Orange, N. J. Filed Oct. 2, 1925. Serial No. 60,040. 5 Claims. (Cl. 129—16.1.)

1. A plurality of series of information cards, each card of each series having a plurality of openings, all of the cards of each series having certain openings located identically with each other and with corresponding openings of the other series and another opening located differently from the corresponding openings of the other series, so that when said cards are placed in a packed relation all the openings of all the cards in one series will be in alinement with each other and at least one opening of each card of each series will be out of alinement with the corresponding openings of the cards of

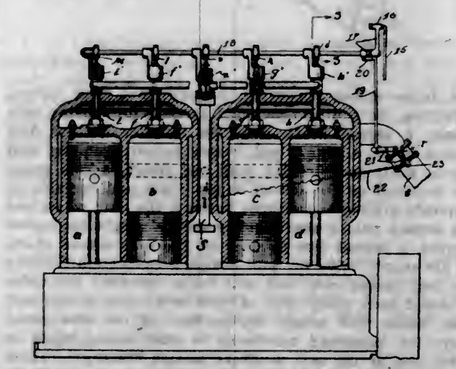


the other series, whereby said openings may serve to indicate different series and as a signal should a card of one series be misfiled in another group, each card of each series having a different designating inscription composed of a plurality of characters and each of the openings representing one of said characters, the characters so represented being same for all of the cards of the same series.

1,679,366. METHOD OF MAKING ALUMINUM SULPHATE. ROY MACKAY MEIKLEJOHN, Flushing, N. Y., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed Jan. 6, 1926, Serial No. 79,532, and in Canada Oct. 2, 1925. 14 Claims. (Cl. 23—123.)

4. In the art of making aluminum sulphate, the improvement which comprises causing reaction between an alumina-bearing material and sulphuric acid of such strength that substantially complete decomposition is effected and that the resulting product is basic and establishing and maintaining a temperature of approximately 178° C. throughout the reaction to preserve a liquid state in the reacting materials.

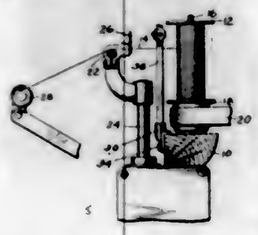
1,679,367. BRAKING DEVICE AND METHOD OF CAUSING BRAKING EFFECT. WILHELM MEYSENBURG, New York, N. Y. Filed Nov. 16, 1922, Serial No. 601,418, and in Germany Dec. 8, 1921. 13 Claims. (Cl. 123—97.)



1. The method of causing a braking effect upon a vehicle, driven by a multiple explosion motor, by turning said motor into a compressor, said method consisting in

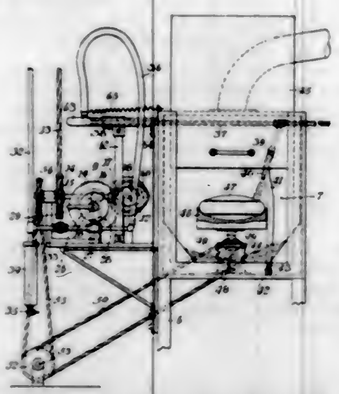
closing the exhaust pipe of the motor, putting the combustion chambers of each group of cylinders, the pistons of which move in unison, into communication with each other, and admitting air only into said combustion chambers by connecting the intake pipe for the gas supply with the atmospheric air.

1,679,368. DEVICE TO DETERMINE SIZE OF YARN PACKAGES. ASA E. MOON, Scranton, Pa. Filed Sept. 21, 1926. Serial No. 136,751. 7 Claims. (Cl. 242—39.)



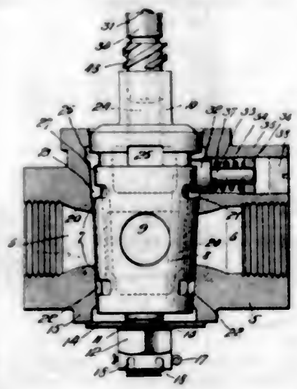
1. In a machine of the class described, in combination with means for winding yarn to form a package, means operable by the yarn before it is wound on the package for cutting said yarn when the package attains a predetermined size.

1,679,369. SAND-BLASTING APPARATUS. CHARLES F. MOTZ, Monaca, Pa., assignor to The Phoenix Glass Co., Monaca, Pa., a Corporation of West Virginia. Filed Oct. 30, 1926. Serial No. 145,137. 6 Claims. (Cl. 51—15.)



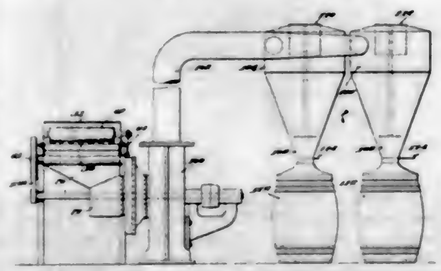
4. Glass-cutting apparatus, comprising a blast nozzle, a driving shaft, a cam mounted thereon for moving said nozzle, a second shaft, a pinion mounted on the first named shaft, a gear wheel loosely mounted on the said second shaft and meshing with the pinion, a cam member mounted on the second named shaft and operable to maintain driving engagement between the gear wheel and the second named shaft during only a single revolution thereof, a second cam member on the said named shaft, an air supply valve for said nozzle, a connection between the last named cam and said valve, whereby the valve is closed upon completion of each revolution of the said gear wheel, and means independent of the first-named shaft for imparting movement to said second shaft to cause one of the cam members carried thereby to effect driving connection between the said gear wheel and its shaft and cause the other cam to permit opening of the valve.

1,679,370. VALVE. SVEN JOHAN NORDSTROM, Oakland, Calif., assignor to Merco Nordstrom Valve Company, San Francisco, Calif., a Corporation of Delaware. Filed Apr. 30, 1927. Serial No. 187,729. 5 Claims. (Cl. 251—163.)



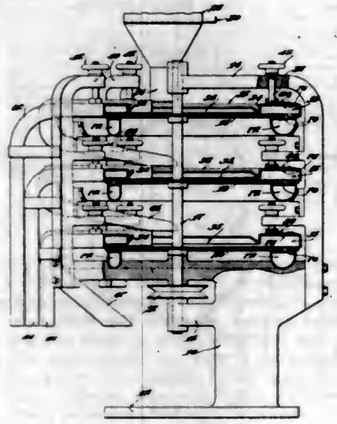
1. A valve comprising a casing having a passageway therethrough and a tapered plug seat formed transversely of the passageway, a tapered plug seated in the plug seat and having a hole adapted to register with the passageway, a cylindrical bolt slidingly mounted in the casing, means for yieldingly pressing the bolt toward the plug, a recess in the plug adapted to receive the inner end of the bolt to lock the plug in the casing, a lubricant reservoir in the plug communicating with the recess, and means for putting the lubricant under pressure to cause the lubricant to act against the inner end of the bolt and thereby force it out of the recess to permit the plug to be turned.

1,679,371. CONFECTIONERY APPARATUS. FRED FORREST PEASE, East Braintree, Mass., assignor to F. F. Pease Inc., Boston, Mass., a Corporation of Massachusetts. Filed Jan. 6, 1923. Serial No. 611,192. Renewed Nov. 30, 1927. 11 Claims. (Cl. 107—44.)



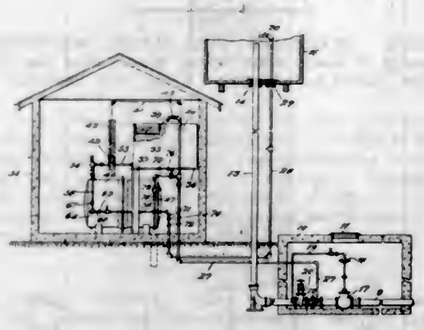
7. Apparatus for the manufacture of confectionery comprising a screen surface adapted to support a mass of starch with fondant centers embedded therein, means for inducing a current of air through the screen surface and mass of starch supported thereby to remove particles of starch and sugar surrounding the centers, a revolving screen located in the air current designed to separate particles of sugar from the starch and air, and means for finally separating the starch from the air.

1,679,372. GRADING AND SORTING APPARATUS. FRED FORREST PEASE, East Braintree, Mass., assignor to F. F. Pease Inc., Boston, Mass., a Corporation of Massachusetts. Filed Apr. 4, 1923, Serial No. 629,876. Renewed Apr. 22, 1926. 13 Claims. (Cl. 209—12.)



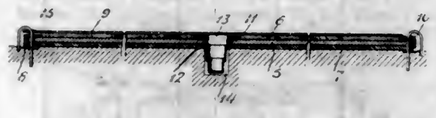
1. A grading and sorting apparatus comprising means for forming a peripheral grading slot of predetermined width, means for moving articles by centrifugal force against the slot and for maintaining the articles in moving contact with the slot for a substantial period, and means for collecting and discharging articles too large to pass through the slot.

1,679,373. FLUID-TREATING APPARATUS. WILLIAM A. POWNALL, Decatur, Ill. Filed Jan. 11, 1923. Serial No. 611,999. 10 Claims. (Cl. 210—40.)



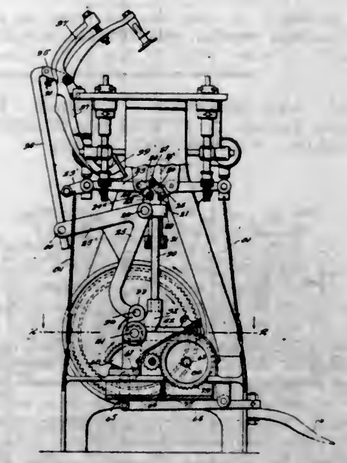
1. In fluid treating apparatus, a settling tank, a supply pipe containing a constriction thru which said settling tank is connected to a source of fluid supply, and means for introducing into said settling tank a treating solution of definite strength in quantities substantially proportioned to the amount of fluid passing from the source of supply to said settling tank, said means comprising a tank for the treating solution having a movable partition therein, a pipe connected to the supply pipe at a point in advance of the aforesaid constriction and leading to the solution tank on one side of the partition therein, and a pipe leading from the solution tank on the other side of the partition to the stream passing into the settling tank.

1,679,374. PORTABLE IN AND OUT DOOR PUTTING GREEN. RAYMOND H. REIRDEN, Sound Beach, Conn. Filed July 25, 1927. Serial No. 208,171. 4 Claims. (Cl. 273—36.)



1. In a portable putting green, a flexible member having a putting surface and provided with an opening, and a collapsible cup mounted in said opening and capable of extension below said member and into a hole in the ground beneath said opening.

1,679,375. MACHINE FOR FOLDING THE EDGES OF TEXTILE AND SIMILAR ARTICLES. EDWARD B. ROBY, North Troy, N. Y., assignor to S. and R. Folding Machine Company, Inc., Green Island, N. Y., a Corporation of New York. Filed Aug. 29, 1925. Serial No. 53,246. 10 Claims. (Cl. 223—55.)

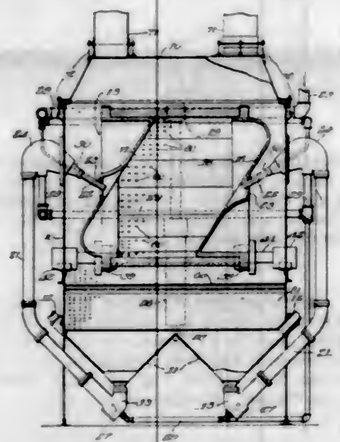


1. In a machine as characterized a driving mechanism comprising a reciprocating member; a crank arm operatively connected with said member; means for rocking said crank arm, said means embodying rotary concentric members disposed in spaced relation and power-driven continuously in relatively opposite directions; a lever arm operatively connected with said crank arm and adapted for alternately engaging said concentric members to be moved thereby.

1,679,376. APPARATUS FOR ABRADING. ROBERT ROSCOE, Clarendon Hills, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 7, 1924. Serial No. 742,114. 2 Claims. (Cl. 51—13.)

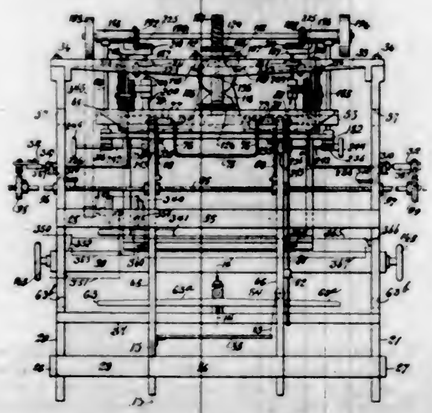
1. In an abrading apparatus, a compartment, a treating receptacle housed by the compartment containing an article to be treated, a nozzle arranged within said compartment and extending into the receptacle for directing

abrading material upon the surfaces of the article, and a second nozzle positioned within the other nozzle for directing a gaseous medium upon the surfaces of a treated



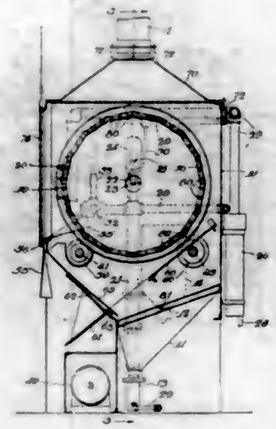
article to remove the loose material therefrom after the article has been abraded while confined within said receptacle.

1,679,377. SAW-SHARPENING MACHINE. BARNETT RUDOLFF, Bayonne, N. J. Filed July 27, 1926. Serial No. 125,199. 6 Claims. (Cl. 76—41.)



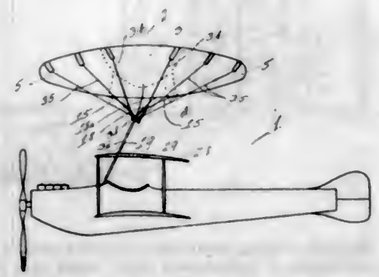
1. In a saw sharpening machine, the combination of a main frame, a slidable frame supported on one side of the main frame, a hinge plate pivoted in the machine on the side of the main frame opposite to the slidable frame, a pivot extending through the hinge plate, a beam guided on the pivot of the hinge plate, a driving shaft journaled in the machine over said hinge plate, means interposed between said shaft and beam to move the latter, other means coacting with the first means to turn said pivot, a pulley supported on the pivot, a sleeve extending from one end of the beam, an arm extending from said sleeve, a connection extending from said arm, a spindle journaled in said connection, a sharpening disc fastened to one end of the latter spindle and a pulley at its other end, a belt connecting the two pulleys and means to clamp a saw blade in the movable frame.

1,679,378. ABRADING APPARATUS. WILLIAM ROBERT SANDERS, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 7, 1924. Serial No. 742,110. 3 Claims. (Cl. 51—13.)



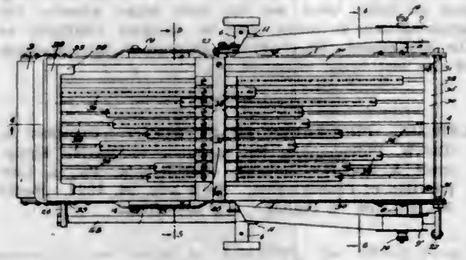
1. In an abrading apparatus, a treating chamber for housing an article to be treated, a cabinet inclosing said chamber having an opening therein through which the treated article is ejected therefrom, a hopper exterior to one side of the cabinet containing a supply of abrading material, means for conveying the material from said hopper into the treating chamber, and a receptacle communicating with said hopper and mounted within said cabinet for collecting the spent abrading material, said hopper being in continuous communication with the receptacle for maintaining the abrading material in said receptacle at a substantially constant level below the opening in said cabinet.

1,679,379. STABILIZER FOR FLYING MACHINES. ERNEST F. SANTO, Walla Walla, Wash. Filed Aug. 30, 1926. Serial No. 132,462. 1 Claim. (Cl. 244—21.)



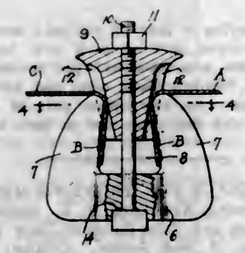
In a stabilizer, a flying machine, a collapsible gas bag comprising a plurality of compartments, said compartments consisting of upper and lower compartments, and end compartments, a gas supplying means carried by said flying machine and provided with means to inflate or deflate said compartments successively, a receptacle provided in said flying machine, a yoke supported by said bag, supporting cords attached to said bag and said flying machine and passed through said yoke, and arranged to uniformly collapse said bag and to draw said bag into said receptacle.

1,679,380. CODING AND DECODING APPARATUS. FRANK R. SEAVER, Pomona, Calif. Filed Oct. 8, 1924. Serial No. 742,333. 13 Claims. (Cl. 35—13.)



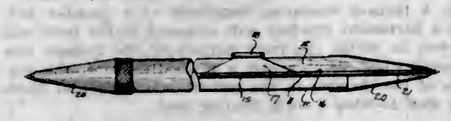
13. In a machine for printing coded and decoded messages, a plurality of parallel and longitudinally-shiftable rods each presenting the same regularly-arranged symbols of the same characters and also carrying arbitrarily arranged printing-types of said characters, said rods comprising two equal groups, and each of the symbols of each rod of one group being doubly paired with the printing-type of some different character of the corresponding rod of the other group.

1,679,381. TRACTOR WHEEL CLAMP. JOHANN CONRAD SELL, Detroit, Mich. Filed June 22, 1927. Serial No. 200,682. 2 Claims. (Cl. 301—38.)



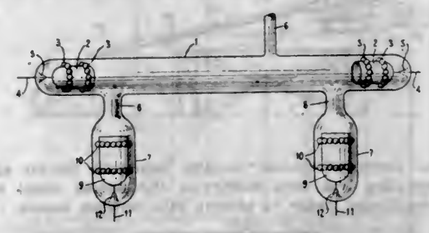
1. A clamp of the character described comprising a female member having a substantially inverted U-shaped slot therein and an aperture communicating with the slot, an apertured wedge having grooves opposed to the walls of the slot in the female member, a bolt extending through the apertures of the female member and wedge, and a nut on the bolt.

1,679,382. PENCIL. NELS P. SJOBRING, Milwaukee, Wis. Filed Sept. 11, 1924. Serial No. 737,018. 1 Claim. (Cl. 120—19.)



In a manually operated pencil, a sheet metal shell, an apertured conical end enclosing means longitudinally adjustable thereon, spaced parallel reentrant portions of the shell defining a longitudinal slot therein and a split lead-guiding tube, the said reentrant portions extending beyond the shell and through the aperture in the conical end enclosing means as a split tube having tapered upstanding supporting fins within the enclosing means, and means slidable in the tube for projecting a lead therefrom.

1,679,383. METHOD AND APPARATUS FOR EXHAUSTING VACUUM-TUBE-LAMP ENVELOPES. ROBERT C. SMALLEY, Arlington, N. J. Filed June 2, 1926. Serial No. 113,307. 11 Claims. (Cl. 176—122.)



1. The method of producing a vacuum tube lamp which comprises removing gas from the interior of the lamp envelope while passing an electric current through the tube between a pair of electrodes in said gas, and removing said electrodes after passage of said current.

1,679,384. FACET TOOTH. HANS STAHL, Eisleben, Germany. Filed Mar. 12, 1926. Serial No. 94,108, and in Germany Mar. 17, 1925. 1 Claim. (Cl. 32—9.)

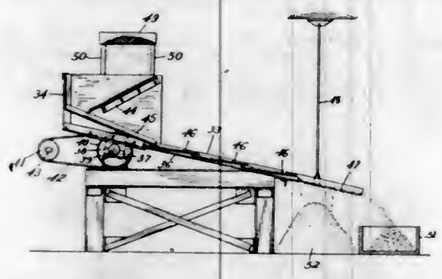


An artificial tooth comprising a facing having an incisal edge inclined toward its lingual face and having a dove-tailed recess opening through its incisal edge and lingual face and terminating inwardly of its gingival edge, said recess being of double-wedge formation in the directions from front to rear and from side to side of the tooth, said recess being of maximum width and minimum depth at its end opening through the incisal edge of the facing and thence decreasing in width and increasing in depth toward and being of minimum width and maximum depth at its end adjacent the gingival edge of the facing, and said recess having its inner wall inclined with relation to the labial face of the facing and having its side walls inclined to the plane of the longitudinal center of the facing and converging toward the lingual face of the facing and its inner end wall inclined in the direction of the gingival edge and labial face of the facing, and a backing plate having a dovetailed projection of a form corresponding to and adapted to fit within said recess of the facing and provided with an inclined projection lapping over upon the incisal edge of the facing.

1,679,385. APPARATUS FOR RECLAIMING METALS. THERON D. STAY and CHARLES O. TESSIER, Cleveland, Ohio, assignors, by mesne assignments, to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Original application filed Oct. 28, 1921, Serial No. 511,021. Divided and this application filed Nov. 20, 1925. Serial No. 70,322. 11 Claims. (Cl. 88—92.)

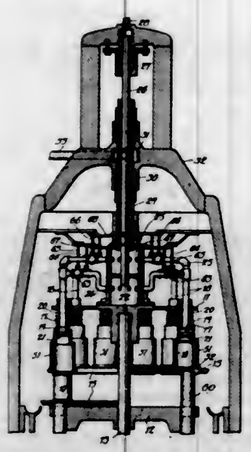
1. Apparatus, for use in the recovery of readily oxidisable metal from metal-containing dross, comprising in

combination, means for reducing highly heated dross to a finely divided condition thereby liberating molten



metal entrapped therein, movable means for quickly agglomerating and then solidifying the molten metal so liberated, and means to actuate said movable means.

1,679,386. PRESERVATION OF FOOD PRODUCTS. DWIGHT TENNEY, Brooklyn, N. Y., assignor, by mesne assignments, to Rector-Tenney Company, New York, N. Y. Filed Dec. 20, 1920. Serial No. 431,891. 5 Claims. (Cl. 226—20.)



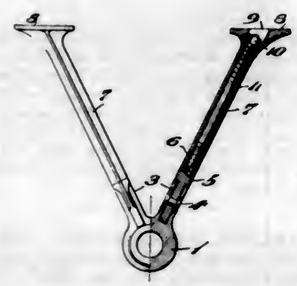
1. A machine of the character disclosed comprising a rotatable turret adapted to carry a container, separate gas supply and suction chamber in the turret, a sliding bell adapted to form a closed space around said container, gas supply and suction lines leading from the chambers to said closed space, a valve in each of the lines, and cam means adapted to actuate the valves.

1,679,387. LAST-MEASURING STICK. LAURENCE E. TOPHAM, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 28, 1922. Serial No. 603,831. 5 Claims. (Cl. 33—3.)



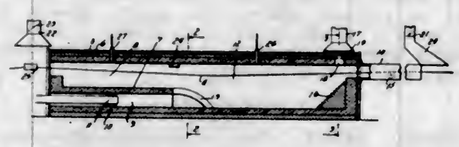
1. A last measuring stick comprising a body graduated in shoe size units, an abutment attached to said body, a second abutment sliding on said body, said abutments being arranged to caliper a last placed between them, and an index reading on the graduated body adjustably connected to said second abutment, said adjustable connection comprising a short scale granted positively and negatively in shoe size units but only several sizes long, and an index mark for the short scale, whereby the second-named abutment may be adjusted relatively to the first-named index by the amount of the extension of the last being measured.

1,679,388. PROPELLER SHAFT STRUT. CLEMENT A. TROTH, Philadelphia, Pa., assignor to Marine Equipment & Supply Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 24, 1926. Serial No. 131,176. 2 Claims. (Cl. 308—31.)



1. A strut having a pair of two-part arms arranged V-fashion the upper part of each arm being tubular and provided with a counter-sunk pad to receive a nut, a bolt passing through each arm and having screw-threaded relation with the upper part of each lower arm and a nut for the upper end of each bolt.

1,679,389. FURNACE FOR TREATING METAL. WILLIAM E. WATKINS, New York, N. Y., assignor to Copper Plate Sheet and Tube Company, New York, N. Y., a Corporation of New Jersey. Original application filed Jan. 6, 1927, Serial No. 159,337. Divided and this application filed June 25, 1927. Serial No. 201,317. 3 Claims. (Cl. 266—3.)

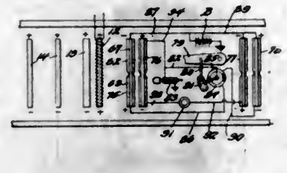


1. A furnace consisting essentially of a chamber having a horizontal dividing wall arranged in the front end thereof to divide the front portion of the furnace into a combustion chamber and a preheating zone, the portion of the chamber in the rear of said horizontal dividing wall forming a main heating zone.

1,679,390. AUTOMATIC TRAIN-CONTROL SYSTEM. BENJAMIN FRANKLIN WOODING, Montclair, N. J. Filed Oct. 1, 1925. Serial No. 59,869. 12 Claims. (Cl. 246—63.)

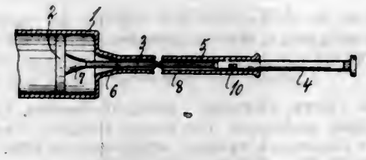
1. In an automatic train control system, a vehicle having two devices mounted thereon at longitudinally

spaced points, permanent magnets on the track operating said devices successively as the vehicle passes thereover, the forward of said devices having a retarded



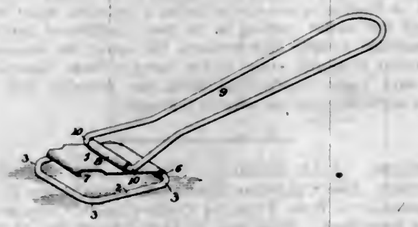
movement, and means for controlling the vehicle when the rear device is operated in advance of the return of the forward device to normal position.

1,679,391. INSTRUMENT FOR ADMINISTERING MEDICINES TO ANIMALS. NILS AAS, Skarnes, Norway. Filed Sept. 3, 1927, Serial No. 217,471, and in Germany Feb. 16, 1927. 8 Claims. (Cl. 128—264.)



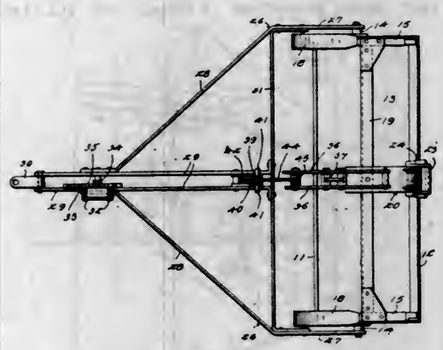
1. An instrument for administering solid as well as liquid medicine and food to horses and other animals, comprising a tubular metal medicine container provided with a conical seat on one end thereof, a tubular metal guide extending from said container and communicating therewith, a piston slidably arranged in said container, said piston having a conical projection on one face thereof adapted to fit into said conical seat when said piston is at one end of said container, a rod on said piston freely slidable in said guide, and an operating handle on the outer end of said piston rod.

1,679,392. SCOURING DEVICE. SAMUEL APPLIN, Philadelphia, Pa. Filed May 4, 1925. Serial No. 27,669. 7 Claims. (Cl. 15—209.)



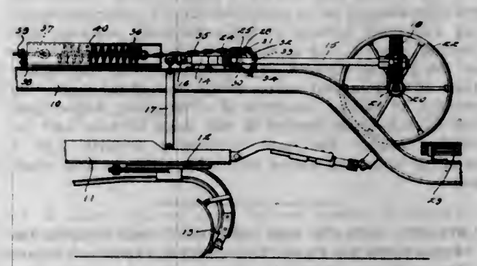
1. In a device of the character stated, a frame formed of wire in rectangular form, combined with a clamping plate having one end hinged to the frame and its other end shaped to form a snap lock upon the frame at its end opposite to the hinged connection of the plate, said plate being of widths less than said frame whereby it cooperates with the said portions of the frame to form a clamping means for a scouring pad to be used, said plate having on its outer side a looped portion to provide elasticity to the snap lock.

1,679,393. SCRAPER. FRANKLIN E. ARNDT, Galion, Ohio, assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio, a Corporation of Ohio. Filed Oct. 25, 1927. Serial No. 228,671. 9 Claims. (Cl. 37—140.)



1. In a scraper, a draw bar, a transversely extending scraper bucket rotatably engaged therewith and adapted to assume loading, dumping and transporting positions, a latch element supported from the draw bar and a co-acting latch element carried by the bucket and having stops successively engaged by the first named latch element to check rotation of the bucket in each of said positions and means operable at the forward end of the draw bar for disengaging the first named latch element, a lever pivoted to the draw bar adjacent the forward end thereof to swing longitudinally of the draw bar, means for holding the lever in adjusted positions, the first named latch element comprising a link pivoted at its forward end to the lever and having at its rear end a nose for engagement with said stops.

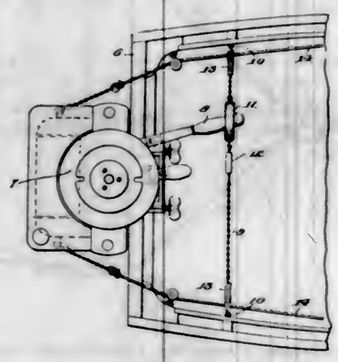
1,679,394. BOTTOM LIFTING AND EQUALIZING MECHANISM FOR ROAD GRADERS. FRANKLIN E. ARNDT, Galion, Ohio, assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio, a Corporation of Ohio. Filed Oct. 25, 1927. Serial No. 228,673. 3 Claims. (Cl. 37—156.)



1. In a road grader, a supporting framework, a bottom, equalizing mechanism for raising said bottom and permitting the same to lower, said mechanism comprising

longitudinally extending lift shafts supported by the framework and operatively connected to the bottom, independently movable transverse shafts mounted on the framework and having beveled gear connections with the first named shafts, springs extending longitudinally of the framework, and connections between the second named shafts and said springs adapted to equalize the lifting force exerted by said springs in all positions of the bottom.

1,679,395. STEERING CONTROL FOR BOATS. GEORGE GORDON BAILEY, Washington, D. C. Filed May 28, 1927. Serial No. 195,000. 4 Claims. (Cl. 114—146.)



1. A device for holding a tiller for speed boats, comprising an elastic cable connected at its ends to the sides of the boat and extending across the boat adjacent the tiller and having means to engage the tiller.

1,679,396. MEASURING SYSTEM. HENRY M. BASCOM, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 10, 1927. Serial No. 212,099. 2 Claims. (Cl. 179—9.)



1. In a telephone system, a central office, subscribers' stations adapted to be connected thereto, polarized metering apparatus located at the subscribers' stations, connecting circuits and a source of direct current energy at the central office, a switch for reversing the connections of said current source to one end of the connecting circuits at regular intervals at a frequency below audibility, choke coils located in the leads between said reversing switch and said connecting circuits, and a capacity connected across said leads adjacent said choke coils.

1,679,397. DEVICE FOR LOCATING DEFECTIVE INSULATORS IN ELECTRIC POWER LINES. THOMAS DUDLY BERRY, Markdale, Ontario, Canada. Filed June 24, 1926. Serial No. 118,297. 9 Claims. (Cl. 175—183.)

1. In apparatus for locating defective insulators in electric power lines, the combination of a body member; spaced terminals carried by said body member and forming between them a spark gap; a member adapted to be contacted with an insulator in electric connection with one of said terminals; a rod of conducting material in electrical connection with the other terminal, and adapted to cross the electrostatic field adjacent the insulator being tested; and a variable condenser in parallel with said spark gap.



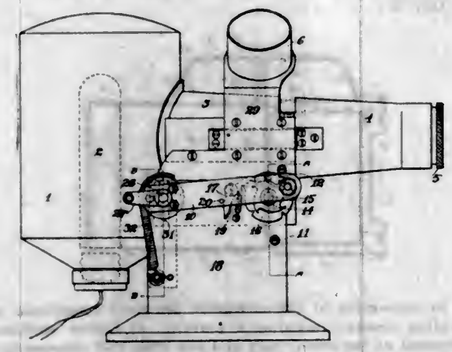
1,679,398. DISK FEEDER. LOUIS C. BONNOT, Louisville, Ohio, assignor to The Bonnot Company, Canton, Ohio, a Corporation of Ohio. Filed June 19, 1925. Serial No. 38,230. 2 Claims. (Cl. 83—44.)

1. A feeding apparatus including a cylindric spout having a side outlet opening in its lower peripheral portion, a movable feeding disk beneath the spout for receiving material from the same, and a scraper blade tangential to said spout co-operating with the movable disk to feed material over the edge of the same.

1,679,399. FILM-FEEDING DEVICE FOR PROJECTORS. PERCY DOUGLAS BREWSTER, East Orange, N. J., assignor to Wyko Projector Corporation, a Corporation of New York. Filed Mar. 2, 1925. Serial No. 12,512. 2 Claims. (Cl. 88—28.)

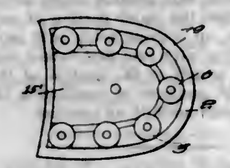
1. In a projector adapted to show a strip of film frame by frame, a feed mechanism comprising a suitable film gate, a sprocket adapted to engage the perforations in the said film, a shaft through the said sprocket, a feed ratchet carrying teeth mounted on said shaft, a feed lever pivoted on a fixed part of the machine carrying a pawl adapted to engage the said teeth and feed the film, a

locking ratchet mounted on the said shaft carrying the same number of slots as the said feed ratchet has teeth, a pawl mounted to engage in the said slots and lock the



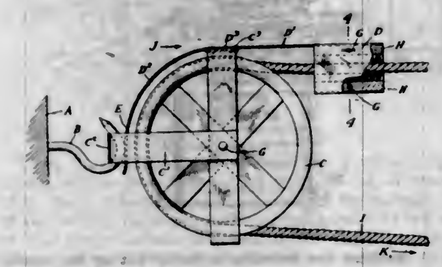
sprocket, and a pin mounted on the said feed lever adapted to disengage the locking pawl at the beginning of the feed stroke of the lever.

1,679,400. SHOE. WALTER JOHN BRIGG, Epping, Sydney, New South Wales, Australia. Filed June 15, 1925. Serial No. 43,863. 4 Claims. (Cl. 36—36.)



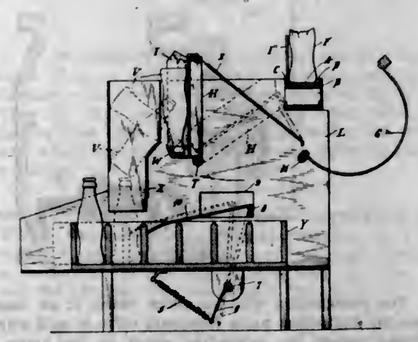
1. In combination, a shoe, a wear element therefor, each of said parts having a plurality of pins projecting therefrom, said pins in one of said parts being adapted to detachably interlock with those in said other part.

1,679,401. CLOTHESLINE-CLEANING DEVICE. ARTHUR F. BRODERICK, Jersey City, N. J. Filed June 12, 1926. Serial No. 115,559. 4 Claims. (Cl. 15—246.)



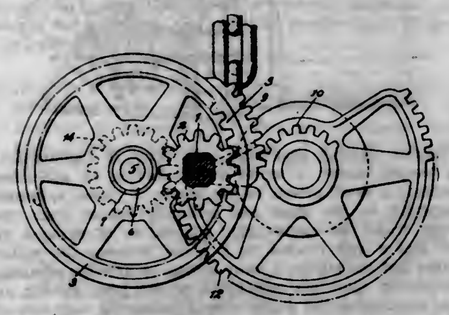
1. A line cleaning device of the class described comprising a housing having detachable brush heads positioned so that their bristles extend toward each other in spaced relation and a flexible strap connected to and supporting said housing forwardly of a pulley whereby a line passing about the pulley is adapted to be passed through said housing.

1,679,402. BOTTLE MIXING, INSPECTING, AND CRATING APPARATUS. ANTHONY W. BROWN, Gainesville, Fla. Filed May 6, 1927. Serial No. 189,277. 13 Claims. (Cl. 226—14.)



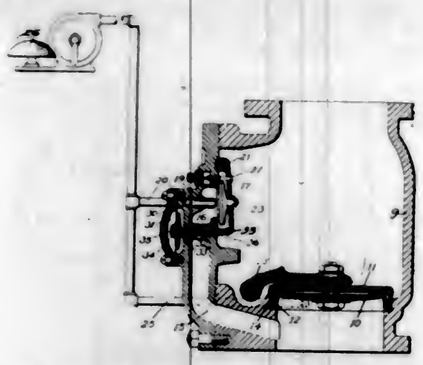
1. In combination, a conveyor belt for bottling machinery, means operating in timed relationship to the speed of said belt for upsetting a plurality of bottles from said belt to mix the contents of the bottles and inspect the same, means for further moving the bottles into their upstanding positions and crating the same, and means for automatically moving the crate to expose different cells therein.

1,679,403. QUICK TAKE-UP AND RELEASE HAND BRAKE FOR RAILROAD CARS. LLOYD J. BROWN, Evanston, Ill., assignor to E. Payson Smith, Chicago, Ill. Filed July 21, 1925. Serial No. 45,049. 5 Claims. (Cl. 74—110.)



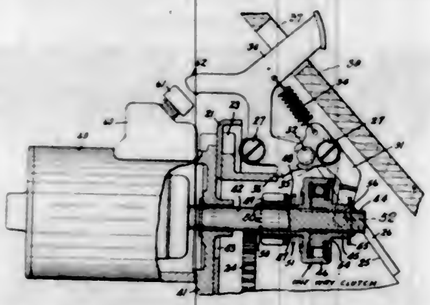
1. A quick take up gear for car brakes including a comparatively large interrupted gear wheel, a segmental gear on the shaft of said wheel but in a different plane from said wheel, an internally toothed gear, a segmental gear on the periphery of said internal toothed gear adapted to mesh with the first named segmental gear, a driving pinion meshing with the internal gear, a spur gear on the shaft of the internal gear and meshing with the interrupted gear wheel.

1,679,404. CONSTANT-ALARM DEVICE FOR ALARM VALVES. HJALMAR G. CARLSON, Worcester, Mass., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 4, 1926. Serial No. 86,072. 6 Claims. (Cl. 169—23.)



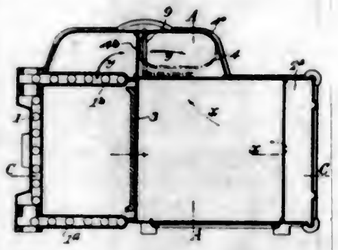
1. The combination with an alarm valve, of an alarm, means for conducting water from said valve to said alarm, a second means for conducting water to the alarm, a second valve for closing the connection of said second means to the alarm, and means for retarding the closing of the second valve.

1,679,405. ENGINE-STARTING APPARATUS. WILLIAM A. CHRIST, Dayton, Ohio, assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed May 13, 1925. Serial No. 29,939. 1 Claim. (Cl. 74—7.)



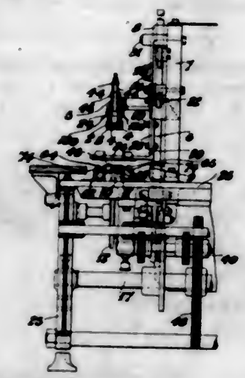
Engine starting apparatus comprising, in combination, an electric motor, a motor switch having an operating member, a shaft driven by the motor, a pinion splinedly connected to the shaft and normally spaced from the motor frame, an engine gear adapted to be engaged by the pinion and located in a plane between the motor frame and the pinion, a lever having an arm for engaging the switch operating member, a second lever having an arm for moving the pinion means connecting said arm of the second lever with the pinion for moving the pinion in either direction when the second lever is moved, means pivotally supporting the levers on the same side of the shaft, said levers having arms extending toward one another from their pivots and said last mentioned arms having interconnecting provisions whereby rotation of the first lever toward the switch will cause the second lever to move the pinion into mesh with the gear, and a single helical coil spring connected at its ends with both levers in such manner as to yieldingly maintain the pinion demeshed from the gear and the first lever out of engagement with the switch operating member.

1,679,406. COMBINED BOILER AND HEATING DEVICE. LOUIS COURTOT, Paris, France, assignor to American Radiator Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 21, 1925, Serial No. 10,799, and in France Feb. 22, 1924. 1 Claim. (Cl. 126—5.)



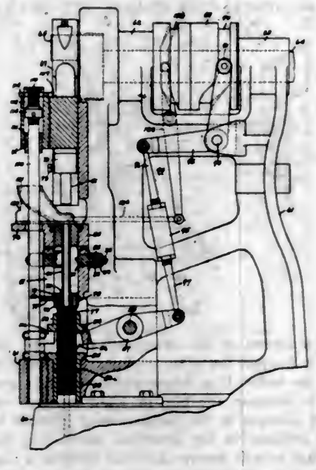
An apparatus of the character described comprising a heating element including a plurality of hollow sections disposed at the front, rear and one side, and communicatively connected to form a fuel receptacle, an oven disposed at the remaining side of said heating element having a wall portion in common therewith forming the remaining side wall of said fuel receptacle capable of directly imparting the heat developed in said fuel receptacle to said oven, a top plate disposed upon and common to said heating element and said oven, a passage extending from the upper portion of said fuel receptacle around the top, side and bottom of said oven, a member overlapping the adjacent wall portions of said heating element and said oven at one side thereof and forming therewith a vertical collecting flue, a partition in said flue, an outlet from said passage below said oven to said flue, an outlet from the upper portion of said fuel receptacle to said flue, an opening below said partition, and a damper cooperating with said first-named outlet and with said opening to permit of the control of the passage of the hot gases and products of combustion through either thereof at will, substantially as specified.

1,679,407. MEANS FOR LINING CARDBOARD BOXES. WILLIAM ARTHUR COTTE, London, England, assignor to J. Lyons and Company, Limited, London, England. Filed Apr. 8, 1926, Serial No. 100,760, and in Great Britain May 14, 1925. 11 Claims. (Cl. 93—36.)



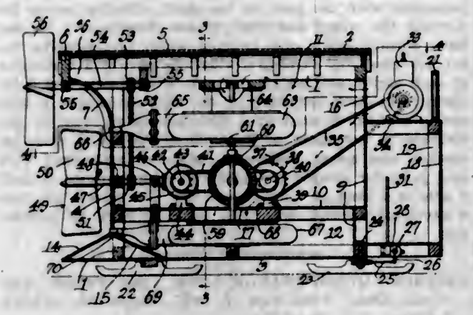
3. A machine for inserting a lining having flap extensions on all four sides into a box, comprising means for inserting the lining in the box and then bending three of the lining flaps over the back and side edges of the box and separate means for bending the other flap over the front edge of the box.

1,679,408. BRIQUETTING APPARATUS. JAMES H. DAVIS and ALBERT H. VALENTINE, Dayton, Ohio, assignors to Moraine Products Company, Dayton, Ohio, a Corporation of Ohio. Filed Aug. 2, 1926. Serial No. 126,369. 6 Claims. (Cl. 18—16.)



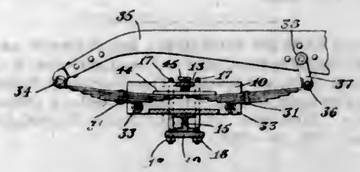
1. Molding apparatus comprising, in combination, a die having molding space provided by bores of different diameters, tubular rams of different external diameters received by the respective bores, a mandrel received by central bores of the rams, and means for producing relative movement between the die and rams to compress material within the molding space, and for producing relative movement between the smaller ram and the die in order to eject the briquette from the die.

1,679,409. SNOWPLOW. ANDREW B. DELANEY, Ashland, Wis. Filed Nov. 4, 1927. Serial No. 231,070. 5 Claims. (Cl. 37—43.)



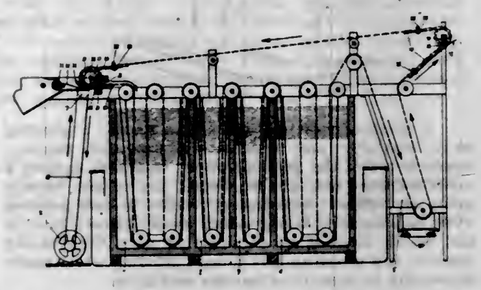
1. In a device of the class described, a vehicle, upper rotary cutters journaled on the forward end of the vehicle, lower rotary cutters journaled on the forward end of the vehicle, the lower cutters being located to the rear of the upper cutters and behind the upper cutters, a blower having a blast nozzle discharging adjacent to the lower portions of the upper cutters and adjacent to the upper portions of the lower cutters, a blower discharging adjacent to the lower portions of the lower cutters, means for operating the cutters, and means for operating the blowers.

1,679,410. SPRING. MICHAEL P. DELORY, Concord, Mass. Filed Oct. 26, 1927. Serial No. 228,811. 3 Claims. (Cl. 267—22.)



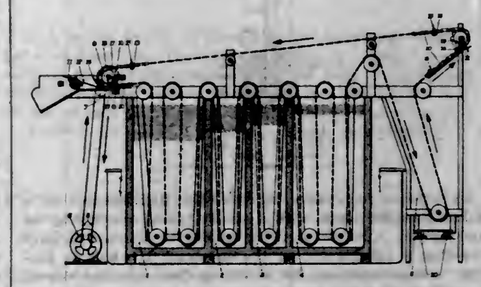
1. In an improved spring, the combination of a channel shaped chair, a pair of springs pivotally mounted in said chair, and having the associated ends of the springs within the chair separated from each other, means for engaging such ends, and means for adjusting the tension between said last named means and the separated ends of the springs.

1,679,411. LOADING DEVICE FOR CONVEYING SYSTEMS. EDWARD F. DE POTTER, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 18, 1926. Serial No. 136,265. 14 Claims. (Cl. 271—2.1.)



1. In a conveying system, a plurality of sprocket wheels, a plurality of endless chains meshing with and being moved by said sprocket wheels at substantially the same speed, means for feeding flexible material unrolled from a reel to said endless chains so that it may be conveyed thereby, means for piercing and gripping the flexible material to the endless chains at definite intervals, and means for thereafter releasing the flexible material from the endless chains.

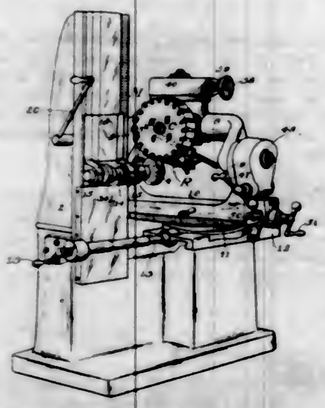
1,679,412. UNLOADING DEVICE FOR CONVEYING SYSTEMS. EDWARD F. DE POTTER, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 18, 1926. Serial No. 136,266. 8 Claims. (Cl. 271—2.1.)



1. The method of separating a flexible strip of material from a corresponding chain conveyor having a plurality of devices penetrating and gripping said strip, which

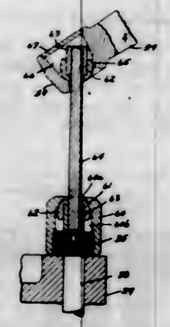
consists in successively and transiently releasing the penetrating and gripping devices as the conveyor passes a certain place, and moving this strip of material divergently at that place.

1,679,413. CUTTER GRINDER. SOL EINSTEIN and LESTER F. NENNINGER, Cincinnati, and HERMAN R. ISLER, Norwood, Ohio, assignors to The Cincinnati Milling Machine Company, Oakley, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 14, 1924. Serial No. 699,230. 11 Claims. (Cl. 51—225.)



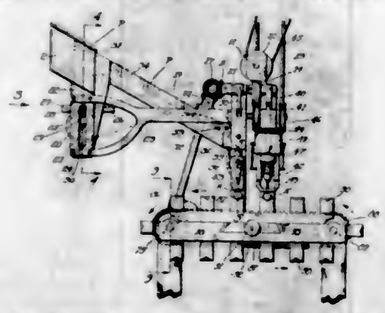
1. A grinding machine combining a frame; a grinding wheel rotatably and translatably journaled thereon; means to rotate the grinding wheel; means to support a cutter adjacent said grinding wheel and to give to said cutter six different adjustments relative to said grinding wheel to present to said grinding wheel adjacent faces of said cutter disposed at an angle of more than ninety degrees; and means to give to said grinding wheel bodily movements to cause it to traverse said faces.

1,679,414. MEANS FOR CONNECTING THE OPERATING MEMBERS OF VEHICLE REBOUND CHECKS WITH VEHICLE PARTS. GEORGE W. ELSEY, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed May 28, 1926. Serial No. 112,265. 3 Claims. (Cl. 24—123.)



1. A device for connecting the operating member of a vehicle rebound check with a vehicle part, comprising, in combination, a cable carrying a sleeve member, a part providing a tubular recess, the end wall of which is provided with an aperture for receiving the cable and sleeve, the material of the part surrounding the aperture being shaped to provide internally, a spherical recess, a ball member having a spherical surface adapted to be received by the spherical recess and having a notch extending from its periphery to its central portion for receiving the cable and having a recess for receiving the sleeve on the end of the cable.

1,679,415. MACHINE FOR DRILLING AND PINNING KNIFE HANDLES AND THE LIKE. MARSHALL FARNSWORTH, Southbridge, Mass. Filed Aug. 31, 1926. Serial No. 132,780. 10 Claims. (Cl. 29—26.)



1. In a machine of the character described, the combination of a hopper for pins, a chute extending from said hopper at an inclination down which the pins are adapted to slide, a plunger located in said hopper, means for raising the plunger in the hopper, said plunger having an upper end inclined in the direction parallel to that of the chute so that it will receive and lift therein a row of pins when forced up through a mass of pins in the hopper, whereby said pins will be free to slide down the chute lengthwise, a trough at the bottom of the chute having means therein for receiving the pins and allowing them to retain a vertical position, a chute extending from the end of the trough, and a plunger movable through the trough to dislodge one pin at a time therefrom into the last named chute.

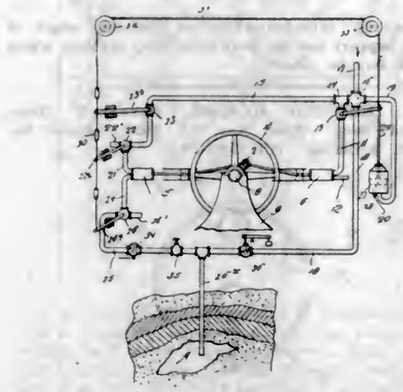
5. In a machine of the character described, the combination with an endless carrier having rests thereon equally spaced apart for receiving the work, a pair of shafts on which said carrier is located, one of said shafts having a ratchet wheel fixed with respect thereto, a gear freely rotatable on said shaft, a gear for operating the first named gear having teeth arranged part way around it and adapted to be operated constantly, whereby the second gear will rotate intermittently, a grooved wheel connected with the gear on the shaft, yielding means for turning the wheel and gear in one direction, a ratchet pawl movable with said grooved wheel for engaging the ratchet wheel and turning it a definite part of a revolution at each oscillation, whereby the rests will move a definite distance at each operation of the endless carrier, a drill and a plunger located at a distance apart equal to the distance of movement of the endless carrier at each operation, and means positively connected and timed with said gears for moving the drill and plunger down to drill a hole in a piece of work on one rest and drive a pin into a previously drilled hole in a piece of work on another rest.

1,679,416. QUICK-CHANGE LINK. ROB FELGER, Ashtabula, Ohio. Filed Sept. 7, 1927. Serial No. 218,053. 1 Claim. (Cl. 24—230.5.)



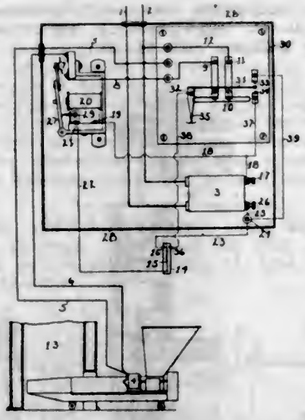
A quick-change link for cross chains bifurcated at one end to form a pair of normally closed hooks adapted to engage a link of a longitudinal chain, the other end of the link being formed with a relatively narrow neck extending at an angle to the body of the link and laterally extended at its end to form two laterally projecting arms curved toward the body of the link and adapted to engage the bight end of a cross chain.

1,679,417. GAS-PUMPING SYSTEM. EDWARD J. GARNIER, Gary, Ind. Filed May 17, 1926. Serial No. 109,666. 5 Claims. (Cl. 230—8.)



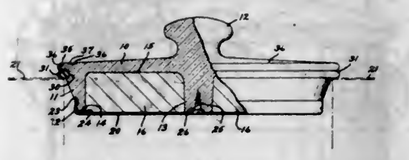
1. In a gas pumping system for natural or artificial gas the combination of a chamber for receiving the gas, a compressor, a gas engine for the operation of the pump, a natural gas supply pipe for the pump, and a natural gas supply pipe for the engine, a compressed gas delivery pipe leading from the pump to the gas receiving chamber and automatic means for lowering the supply of gas to the engine when the natural gas supply pressure falls below a predetermined amount.

1,679,418. AUTOMATIC STOKER CONTROL. LLOYD GARRISON, Salt Lake City, Utah. Filed Sept. 12, 1927. Serial No. 219,109. 7 Claims. (Cl. 236—1.)



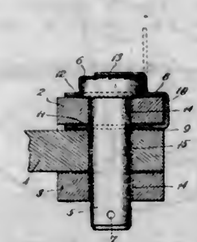
1. The combination of a mechanical fuel feed, a furnace operated in connection therewith, a device to control the operation of the fuel feed according to the amount of heat required to be delivered by the furnace, and a device actuated by the operation and nonoperation of an electrically heated unit to cause intermittent operation of the fuel feed at such times as the operation of the fuel feed would otherwise be stopped by action of the first named control device.

1,679,419. HEAT-INSULATING LID. HARVEY D. GEYER, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Feb. 19, 1927. Serial No. 169,668. 5 Claims. (Cl. 220—24.)



1. A removable heat insulating lid for a container comprising: a one piece molded composition top member having a hand knob and an annular downwardly extending flange molded integral therewith, ad an integral centrally located depending projection, a sheet metal bottom member secured to said flange and projection, and heat insulating material in the chamber formed between said top and bottom members.

1,679,420. SAFETY DEVICE FOR RAILROAD-CAR-BRAKE BEAMS. VICTOR H. HARBERT, Springfield, Ill., assignor to E. Payson Smith, Springfield, Ill. Filed Mar. 17, 1925. Serial No. 16,199. 9 Claims. (Cl. 85—5.)

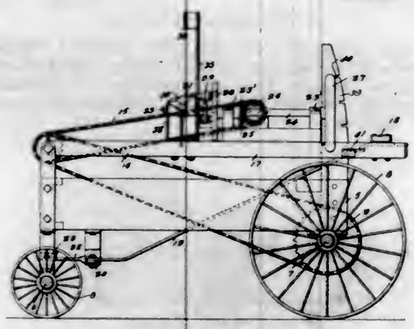


2. A safety device of the character described, comprising a substantially U-shaped body having a port through each of the parallel members of said body in alignment with each other, and a guard at one end of the wall of one of said ports and adapted to be bent over its port to prevent the passage of a bolt or pin therethrough.

1,679,421. HEDGE TRIMMER. JOSEPH G. HIMLER, Latrobe, Pa. Filed Oct. 14, 1924. Serial No. 743,567. 3 Claims. (Cl. 56—237.)

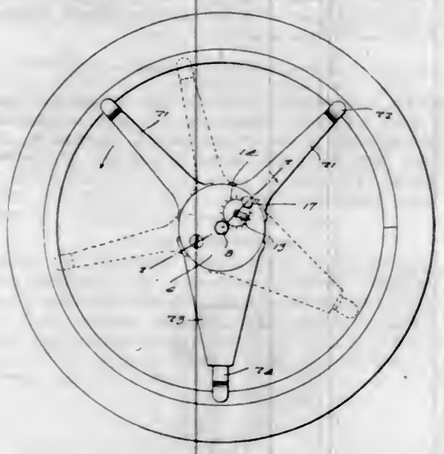
1. A hedge trimming machine embodying a wheel-supported frame having upwardly extended arms at the rear thereof, said arms being provided with notches, a frame mounted on the wheel-supported frame and having its forward end pivotally connected to the first mentioned frame adjacent to the forward end of the wheel-

supported frame, actuating mechanism mounted on the second mentioned frame, a cutter bar operated by the cutter bar actuating mechanism, and a movable bar car-



ried by the second mentioned frame and adapted to be moved into the notches of the upstanding arm to adjust the second mentioned frame vertically.

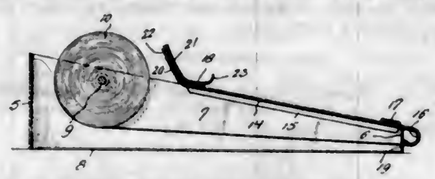
1,679,422. SPARE-TIRE CARRIER. ARTHUR L. HOOKER, Wellington, Kans. Filed Feb. 14, 1927. Serial No. 168,214. 1 Claim. (Cl. 224—29.)



In a tire carrier of the class described, a supporting arm, a disk rigidly mounted on said arm, peripheral segments formed on said disk, a hollow casing structure, means pivotally connecting said casing to said disk for rotation about the disk, lugs carried by said casing and in slidable contact with said segments, a pair of rigid spoke members carried by said casing and radiating therefrom and provided with rim engaging means, an additional spoke member having eccentric pivotal connection with said disk, and a tubular housing rigidly mounted on said casing and enclosing said additional spoke member, the latter being also provided with rim engaging means at its outer end.

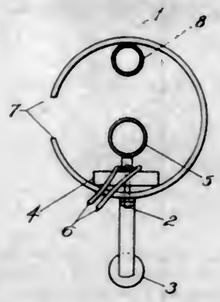
1,679,423. DESK PAD. CLAYTON R. HOME, Enid, Okla. Filed July 1, 1927. Serial No. 202,903. 2 Claims. (Cl. 281—6.)

1. In a desk pad, an open base frame, means to removably journal a roll of paper upon a transverse horizontal axis within the rear part of the frame, said frame having a front wall provided with a horizontal elongated slot, a flat rigid paper support secured in and closing the forward part of the top of the frame, transverse guide loops for the paper provided on and above the forward and rear portions of said paper support, and upwardly



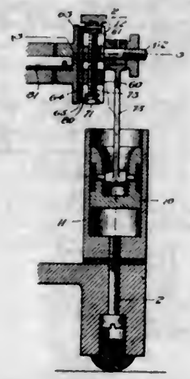
and rearwardly extended plates on the rear edges of the paper support and the rear guide loop between which the paper may be passed.

1,679,424. ELECTRIC HEATER. ERNEST O. HOPP, Portland, Oreg. Filed Nov. 12, 1927. Serial No. 232,780. 3 Claims. (Cl. 219—19.)



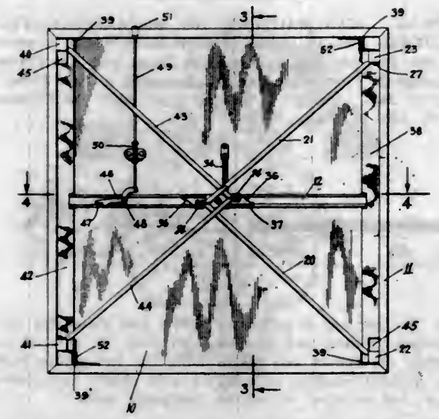
2. In an electric heater, the combination of a cylindrical shell open at both ends, and a handle in parallel relation to the axis of the shell, with a fire-proof, insulating base parallel to the axis of the handle, base and handle being connected with each other, the base on the inside of the shell and the handle on the outside of the shell, a heating element mounted on the base, electrical wires from the heating element emerging at the open end of the shell, and a slot in the side of the shell continued throughout the full length thereof and removed ninety degrees from the handle.

1,679,425. ECCENTER. WILLIAM F. HOUSTON, Washington, D. C. Filed Nov. 21, 1924. Serial No. 751,307. 2 Claims. (Cl. 74—38.)



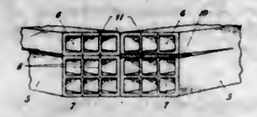
1. An eccenter embracing a disk having a slot therein, a shaft pin having a head movably mounted in said slot, a counterbalance for said head, and a screw upon which said head and counterbalance are carried.

1,679,426. FOLDING TABLE. HAROLD HOWE, Orange, N. J., assignor to Howe Folding Furniture, Inc., New York, N. Y., a Corporation of New York. Filed June 11, 1925. Serial No. 36,325. 14 Claims. (Cl. 45—11.)



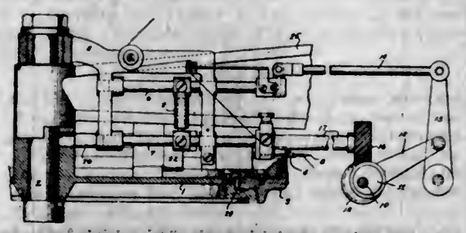
1. A folding table comprising in combination, a table top, a frame for said table top, legs adapted to fold within said frame, guiding means, racks guided by said guiding means, braces pivotally connected with said legs and with said racks, and a pinion engaging said racks so that the movement of all of the braces will be substantially of the same magnitude.

1,679,427. UNDERGROUND CONDUIT. HOWARD W. JEWELL, Los Angeles, Calif., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 1, 1926. Serial No. 99,120. 2 Claims. (Cl. 247—32.)



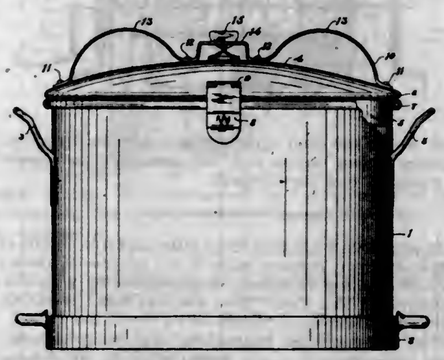
1. A junction in a run of multiple duct conduit comprising a multiple duct section having a plurality of layers of ducts, and a partition wall between contiguous layers thickened at the junction end, and two separate conduit sections having ducts corresponding respectively to the layers of ducts in the multiple duct section and laid with external walls at the junction end in contact and in continuation with the thickened partition wall of the multiple duct section, the said thickened partition wall being substantially of the same thickness as the combined thickness of the said external walls.

1,679,428. CIRCULAR LOOPER. MAX KÖHLER, Limbach, Germany. Filed May 15, 1925, Serial No. 30,405, and in Germany May 18, 1924. 4 Claims. (Cl. 112—25.)



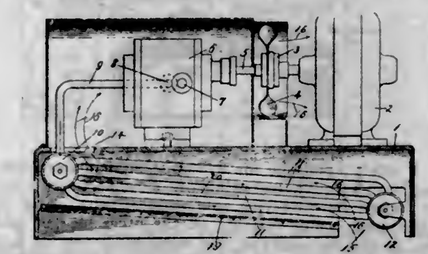
1. In a looping machine, the combination of a rotatable dial having a plurality of radially disposed impaling pins, actuating means therefor, a reciprocating thread needle, and a support for said thread needle pivotally mounted concentrically with said dial.

1,679,429. HANDLE FOR WATERLESS COOKERS. RICHARD F. KRAUSE, Massillon, Ohio, assignor to The Enterprise Aluminum Company, Massillon, Ohio, a Corporation of Ohio. Filed Sept. 23, 1927. Serial No. 221,466. 1 Claim. (Cl. 53—1.)



In combination with a cover for a cooking utensil and the like, a handle comprising a strip of metal and having in sequence intermediate its ends, an end connection portion, a curved end portion, a central connection portion, an inverted U-shaped central portion, a second central connection portion, a second curved end portion, and a second end connection portion, and means connecting the end connection portions and the central connection portions to the cover, the curved end portions being curved away from the cover forming hand grips, and the U-shaped central portion forming a valve mounting.

1,679,430. CONDENSER FOR ICE MACHINES. GEORGE I. LEONARD, Chicago, Ill. Filed Jan. 8, 1927. Serial No. 159,881. 4 Claims. (Cl. 257—39.)

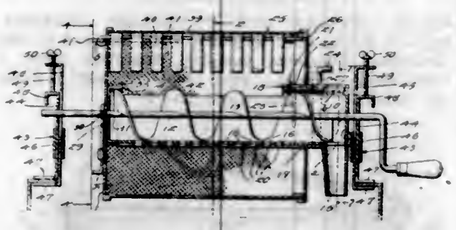


1. The combination with an air conduit having admission and discharge ports; of means for effecting the passage of air into the admission port, through the conduit and through the discharge port; a gas receiving chamber; a condensate receiving chamber; piping within said conduit extending substantially along the path of and following through said conduit and connecting said chambers; said chambers and the piping connecting them being arranged to direct the flow of gas and condensate to the condensate receiving chamber oppositely to the direction of flow of air along the piping; and a pump connected with the gas receiving chamber to force gas thereunto and into the piping connecting the chambers.

1,679,431. CORN POPPER. HUGH A. LONGINO, Ringling, Okla. Filed Sept. 10, 1927. Serial No. 218,799. 10 Claims. (Cl. 53—4.)

1. In a corn popper, a stationary inner drum having an opening in its top, a rotatable outer drum surrounding that portion of the inner drum in which the opening is

formed, a worm within the inner drum, an outlet spout at one end of the inner drum and a shaft for rotating said worm and outer drum, the bottom wall of the inner

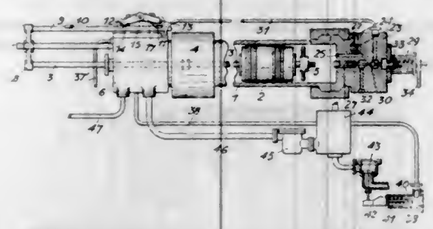


drum within the outer drum having longitudinally spaced openings formed therein of a size permitting the passage of unpopped corn therethrough.

1,679,432. HEAT-PRODUCING COMPOSITION. CHARLES EDWARD LYON, Niagara Falls, N. Y., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y., a Corporation of New York. Filed Dec. 21, 1925. Serial No. 76,892. 9 Claims. (Cl. 44—3.)

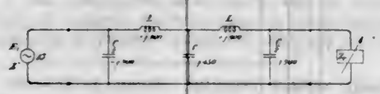
1. A heat-producing composition comprising an alkali metal hydroxide and a salt decomposable by alkali metal hydroxides with the evolution of heat.

1,679,433. SAFETY APPLIANCE FOR HYDRAULIC ACCUMULATORS. MARTIN MACK, Cannstatt-Stuttgart, Germany, assignor to Cannstatter Misch- und Knetmaschinen-Fabrik, Cannstatter Dampf-Backofen-Fabrik, Werner & Pfleiderer, Cannstatt-Stuttgart, Germany. Filed Oct. 27, 1925, Serial No. 65,170, and in Germany Aug. 4, 1925. 6 Claims. (Cl. 103—222.)



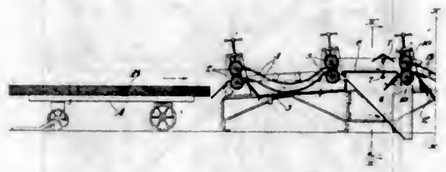
1. A safety appliance for hydraulic accumulators comprising a cylinder, a piston axially movable in said cylinder, means for supplying said cylinder with water on one and with compressed air on the other side of said piston, means for emptying the water-filled part of said cylinder and means on the air-filled side of said cylinder adapted to be influenced by said piston for operating said emptying means.

1,679,434. ELECTRIC WAVE FILTER FOR VARIABLE-LOAD CIRCUITS. RALPH G. MCCURDY, Englewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 21, 1926. Serial No. 103,615. 5 Claims. (Cl. 178—44.)



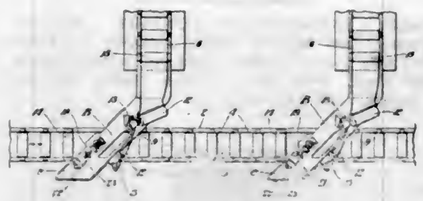
1. A wave filter to pass current of a certain frequency and to stop harmonics thereof, with substantially zero impedance change for current of said frequency through the filter notwithstanding changes of the output impedance, said filter being of low-pass ladder type, and consisting of two mid-shunt sections and having its cut off frequency at $\sqrt{2}$ times said certain frequency.

1,679,435. MANUFACTURE OF METALLIC-COATED SHEETS AND PLATES. JOSEPH MCFETRIDGE, Vandergrift, Pa., assignor to American Sheet and Tin Plates Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Jan. 17, 1927. Serial No. 161,634. 15 Claims. (Cl. 148—4.)



1. The method of preparing sheets and plates for galvanizing, tinning and the like, including the step of removing the sheets and plates from the hot pickle bath and without washing submerging said sheets and plates in a cold solution of soluble inorganic salts.

1,679,436. STRIP-TRANSFER APPARATUS. HOWARD G. MCILVRIED, McCandless Township, Allegheny County, Pa., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed July 14, 1927. Serial No. 205,669. 6 Claims. (Cl. 80—44.)



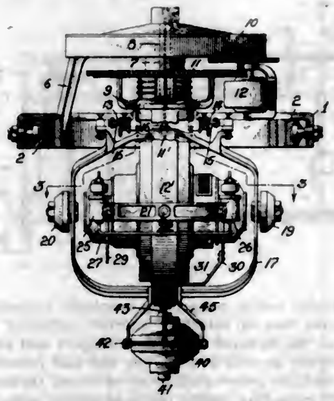
1. The combination with a rolling mill for rolling flexible strips of metal and having a run-out table for conveying said strips away from said mill, of a plurality of other tables arranged at an angle to said first named table, and means at the junction points of said tables adapted to intercept the strips being conveyed along said run-out table and turn and twist said strips through a spiral path and direct said strips onto said second named tables, said means being selective so that said strips may be directed onto any selected one of said second named tables.

1,679,437. CRACKLED WARE AND SEMIFINISHED BLANK THEREFOR. DAVID L. MIDDENDORF, Columbus, Ohio, assignor to The Federal Glass Company, Columbus, Ohio, a Corporation of Ohio. Filed Aug. 20, 1926. Serial No. 130,464. 4 Claims. (Cl. 49—92.)



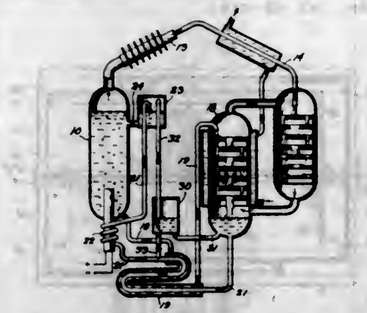
1. An article of finished glassware having crackles therein in the form of round-bottom furrows.

1,679,438. STABILIZED GYROSCOPIC COMPASS. CHESTER B. MILLS, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 30, 1922. Serial No. 609,809. 3 Claims. (Cl. 33—204.)



1. In a gyro-compass, the combination with the gyroscope, of a supporting frame for mounting the same for oscillation about a horizontal axis, compensating weights thereon on opposite sides of the gyroscope in the N-S direction, and two pairs of connected liquid containers for imparting directive power to the compass, symmetrically placed, the individual containers of each pair lying on opposite sides of the aforesaid axis, and the two pairs being respectively on opposite sides of the spinning axis of the gyroscope.

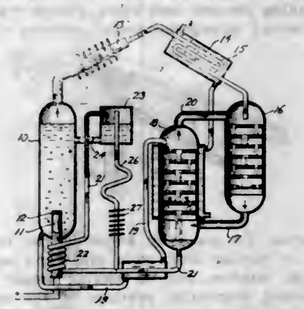
1,679,439. REFRIGERATION. CARL GEORG MUNTERS, Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware. Filed May 7, 1926, Serial No. 107,376, and in Germany Mar. 9, 1926. 14 Claims. (Cl. 62—178.)



10. That step in refrigerating through the agency of a generator-condenser-evaporator cycle which consists in moving absorption liquid laden with a cooling agent in circuit between the generator and absorber by vaporization of an auxiliary fluid capable of volatilization in the presence of the absorption liquid at a different temperature than the cooling agent.

1,679,440. REFRIGERATION. CARL GEORG MUNTERS, Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware. Original application filed May 7, 1926, Serial No. 107,376, and in Germany Mar. 9, 1926. Divided and this application filed May 9, 1928. Serial No. 276,296. 7 Claims. (Cl. 62—178.)

7. That step in refrigerating through the agency of an absorption system including a generator and an absorber which consists in moving absorption liquid laden with a cooling agent in circuit between the generator and absorber by vaporization and liquefaction of an auxiliary

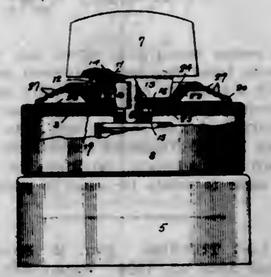


fluid capable of volatilization in the presence of the absorption liquid at a different temperature than the cooling agent.

1,679,441. PROCESS OF MANUFACTURING PULP FOR PAPER PRODUCTION. DINSHAW RATTONJI NANJI, Birchfields, Birmingham, England. Filed Nov. 5, 1926, Serial No. 146,575, and in Great Britain Aug. 17, 1926. 3 Claims. (Cl. 92—13.)

1. A process of manufacturing pulp by treatment of suitable cellulosic materials with an alkali solution of concentration up to 4% and the mixture heated to a temperature corresponding to a vapour pressure of from 7 to 10 atmospheres and preferably as near 10 atmospheres as possible for a period of from one half to one hour.

1,679,442. ELECTRIC SWITCH. ARVID H. NERO, New Britain, Conn., assignor to The Arrow Electric Company, Hartford, Conn., a Corporation of Connecticut. Filed Jan. 10, 1923. Serial No. 611,765. 1 Claim. (Cl. 200—167.)

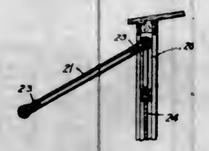


A rotary snap switch comprising an insulating base, a rotary switch spindle rising therefrom and having a laterally projecting actuating member, a switch cover element having a legend-carrying marginal area inclined to the axis of the spindle, and a depressed central area substantially normal to the spindle and apertured to permit the spindle and laterally projecting member to pass therethrough and rotate, together with a handle mounted on the spindle and having an operative engagement with said laterally projecting member, said handle having a hub portion bearing on the central depressed area of the cover element, and a finger grip portion overhanging the legend-carrying marginal area of the cover element.

1,679,443. AUTOMOBILE AWNING. AXEL OLSON and WILLIAM R. MCDERMOTT, Denver, Colo. Filed Oct. 16, 1926. Serial No. 142,064. 3 Claims. (Cl. 156—15.)

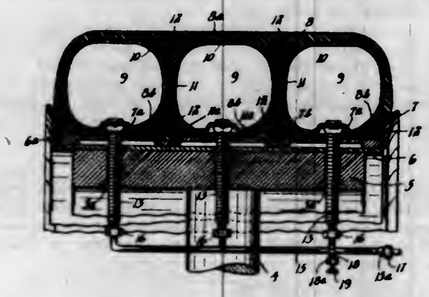
1. An automobile awning including separate, oppositely disposed end frames, each frame having a vertical portion, a screw-threaded horizontal portion extending in-

ward from the vertical portion, a downwardly and outwardly extending awning supporting portion, and a horizontal portion on the end thereof, said horizontal portions extending towards each other, sleeves engaging the first and second named horizontal portions of the end



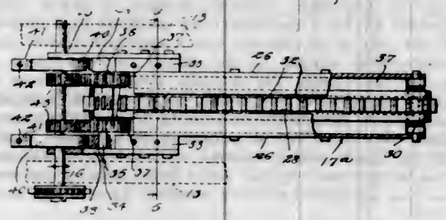
frames, means for manually adjusting the end frames nearer to or further from each other and against the jambs of the window, and an awning proper supported by the awning supporting portions of the end frames and adjustable as to width.

1,679,444. MULTIPLE-TUBE TIRE. BENJAMIN F. PAGENHART, Minneapolis, Minn., assignor of one-fourth to J. A. Bocinny, Minneapolis, Minn. Filed Dec. 3, 1925. Serial No. 72,955. 2 Claims. (Cl. 152—22.)



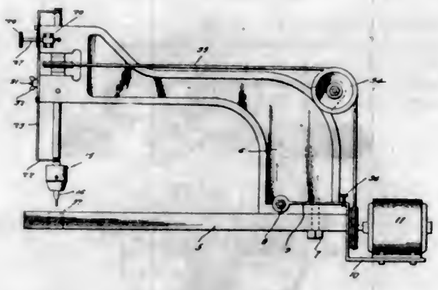
1. A tire casing comprising curved side walls and a relatively wide tread portion, said tread portion being provided with a plurality of substantially unyielding inwardly projecting partitions to form inner tube chambers, said partitions and one of said side walls being provided with lateral extensions respectively overlapping one side wall and adjacent partitions to engage and support the same to retain the same in position.

1,679,445. LOG TURNER. ROIL M. PEAVER, Glendo, Wyo. Filed June 22, 1926. Serial No. 117,805. 6 Claims. (Cl. 143—102.)



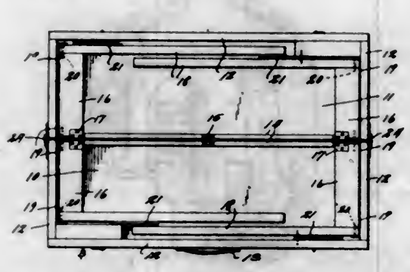
1. In a log turning device for saw mills, a shaft, an arm pivoted to the shaft, a chain travelling along the arm and driven from the shaft and having dogs and a continuously operative connection between the arm and shaft whereby the arm moves with the shaft during rotation of the shaft until the arm encounters an obstruction.

1,679,446. ADJUSTABLE PORTABLE ROUTER. OTIS A. POPHAM, Hayti, Mo., assignor of one-fourth to Melvin G. McElwrath, Hayti, Mo. Filed June 6, 1927. Serial No. 196,842. 1 Claim. (Cl. 90—14.)



A portable router comprising a spindle support having an elevated end, a rotatably carried vertically disposed spindle at the elevated end of said support and adapted to have a chuck secured at its lower end and formed with a pair of annular grooves adjacent each end thereof, and a vertically extending groove intermediate its ends, a pulley arranged on said spindle having a retaining screw inserted therethrough with its inner end slidably carried in the vertical groove and securing the pulley and spindle for rotating movement, a drive belt for the pulley, a U-shaped retaining plate adjustably secured on the elevated end of the support, with its ends disposed horizontally and arranged in the grooves at the opposite ends of said spindle, a rack formed on one edge of the plate, a gear mounted on the support engageable with the rack whereby to vertically adjust the plate, and means connecting the plate with the support for securing the former in vertically adjusted position.

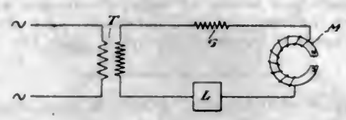
1,679,447. FOLDING TABLE. HENRY PUFF, Los Angeles, Calif. Filed July 17, 1926. Serial No. 123,149. 1 Claim. (Cl. 45—116.)



A table comprising a top formed in two sections, each section having a depending rail around three sides, each section on its fourth side having a longitudinally extending rail, hinge means connecting said last named rails whereby the two sections may be turned into confronting relation to thereby form a carrying receptacle, the last named rails terminating short of the ends of the sections, cross bars disposed adjacent the ends of the sections and outward of the ends of the last named rails, each cross bar at its inner end terminating on the line between the section, each cross bar having a length less than the width of the section with which it is associated, legs, one for each cross bar, extending across the end of the corresponding cross bar and rigidly engaged therewith, the cross bars at each end of the table being hingedly engaged with each other at the joint between the sections, angle iron brackets attached to the end rail

of each section at the extremities of the corresponding cross bar, with which brackets the cross bar is pivotally engaged, and sectional foldable braces operatively engaged with the table top sections and with said legs and acting to hold the legs at right angles to the sections when the legs are unfolded.

1,679,448. ELECTRICAL-CURRENT MODIFICATION. CHARLES G. SMITH, Medford, Mass., assignor to Raythereon Inc., Cambridge, Mass., a Corporation of Massachusetts. Filed May 22, 1923. Serial No. 640,689. 20 Claims. (Cl. 175—363.)



1. An electrical system for modifying current comprising a circuit including an impedance element which is variable in response to temperature changes, and means for applying both half waves of a cyclically varying source of energy to said element for varying the temperature thereof and for automatically causing the temperature of said element to be different in alternate half cycles of the said waves, thereby to vary the current in the circuit in a corresponding manner.

11. An electrical system for modifying current comprising a circuit including an impedance element of germanium, and means for automatically varying the temperature of said element in a predetermined manner, thereby to vary the current in the circuit in a corresponding manner.

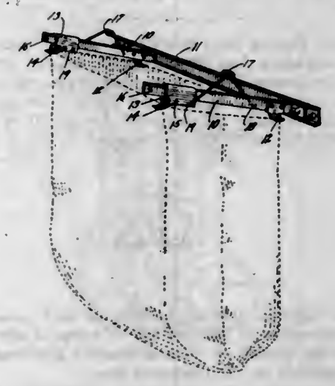
1,679,449. GASEOUS-CONDUCTION APPARATUS. CHARLES G. SMITH, Medford, Mass., assignor to Raytheon Inc., Cambridge, Mass., a Corporation of Massachusetts. Filed June 13, 1927. Serial No. 198,398. 2 Claims. (Cl. 250—27.5.)



1. In a gaseous discharge apparatus of the type described containing helium, an anode, a cathode operatively associated therewith, said anode comprising tantalum.

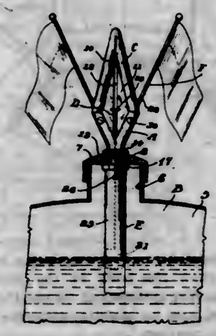
1,679,450. BAG HOLDER. JAMES THOMPSON, Greeley, Colo. Filed Oct. 17, 1927. Serial No. 226,638. 4 Claims. (Cl. 83—26.)

1. A bag holder comprising two stationary arms; stationary hooks projecting downwardly from said arms; movable hooks adapted to extend below said arms and be movable along their length; and resilient means arranged to force said movable hooks away from said stationary hooks, said resilient means comprising a spring



having a coil substantially at its midlength, one arm of said spring being fixed, the other arm being operatively connected with said movable hook.

1,679,451. LIQUID-LEVEL INDICATOR. LYLE J. VAN DUZER, Los Angeles, Calif. Filed Aug. 12, 1921, Serial No. 491,793. Renewed Sept. 22, 1924. 3 Claims. (Cl. 73—82.)

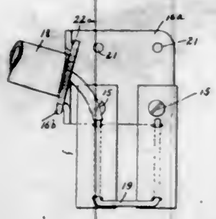


1. A water gauge for automobile radiators comprising a head including a relatively thick marginal rim, and a thin plate extending inwardly therefrom, the plate having an open guide slot former therein, a depending stem formed on said head and having a bore therein arranged in direct alignment with the guide slot, a float rod slidably mounted in said bore and having its upper end movable in said slot, said rod having a pointer thereon comprising a body portion secured to said float rod and indicating portions each projecting through one side of said slot, said indicating portions each coacting with a portion of one side of said head to prevent lateral play of the upper end of said rod, and a float adapted to coact with said rod.

1,679,452. ELECTRIC GROUNDING CONNECTION. WHEELER H. VIBBER, New London, Conn., assignor of one-half to The Gillette-Vibber Co., New London, Conn., a Corporation of Connecticut. Filed Feb. 6, 1925. Serial No. 7,374. 4 Claims. (Cl. 247—1.)

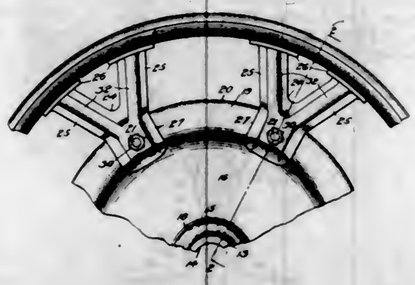
1. An electric connection comprising a clasp-band adapted to encircle a conductor pipe, a bracket having a

portion in which is secured one end of a grounding conduit and another portion adapted to be secured to the clasp-band, and means for securing the bracket to the clasp-band, the bracket having a weakened area between



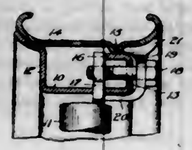
said two portions thereof constructed and arranged to permit distortion of the bracket to adapt it for attachment to the conduit in various angular positions of the latter relatively to the conductor pipe.

1,679,453. AUTOMOBILE WHEEL. JAMES H. WAGENHORST, Jackson, Mich. Filed July 6, 1925. Serial No. 41,835. 2 Claims. (Cl. 301—6.)



1. A wheel comprising a hub having a rear portion of larger diameter than the body of the hub and a brake drum having a central cylindrical flange the forward edge of which engages and is rigidly connected to the rear edge of said rear portion.

1,679,454. VEHICLE WHEEL. JAMES H. WAGENHORST, Jackson, Mich. Original application filed Aug. 9, 1920, Serial No. 402,105. Divided and this application filed Dec. 3, 1925. Serial No. 72,916. 5 Claims. (Cl. 301—20.)



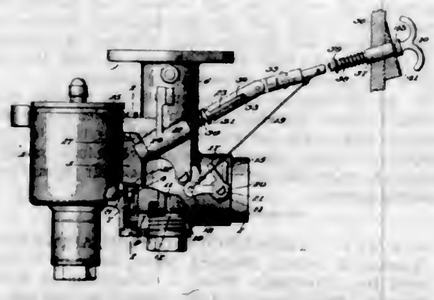
1. The combination with a sheet metal felly, of a demountable tire carrying rim, a bolt, a clamp on said bolt, engaging the rim, and a fulcrum member for said clamp carried within said felly and projecting through the inner face thereof.

1,679,455. AUTOMOBILE WHEEL. JAMES H. WAGENHORST, Jackson, Mich. Original application filed Aug. 9, 1920, Serial No. 402,105. Divided and this application filed Dec. 3, 1925. Serial No. 72,918. 4 Claims. (Cl. 301—30.)



2. A tire carrying rim divided at one point only, one end having an integral extension which is bent inwardly, the opposite end having an integral extension which is bent first inwardly and then outwardly, said extensions being adapted to interlock with each other.

1,679,456. CARBURETOR. ALBERT WAGNER, Cincinnati, Ohio, assignor to Wagner Research Society, Cincinnati, Ohio, a Copartnership comprising Albert Wagner, Henry A. Meyer, Felix Eisbach, and Jacob Block. Filed Aug. 30, 1922. Serial No. 585,161. 2 Claims. (Cl. 137—144.)

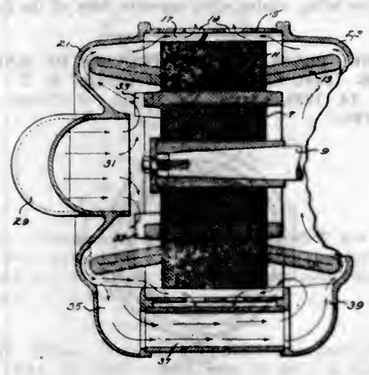


1. In a carburetor, the combination of a fuel-controlling needle valve having a recess in its side, a rock shaft arranged exteriorly to said valve, a cam on said shaft, and an angle lever mounted above the cam and between the same and the valve, one arm of the angle lever engaging the cam and the other arm thereof engaging the recess in the side of the valve.

2. In a carburetor, the combination of a reciprocatory fuel-controlling needle valve, a butterfly air-choke valve, an operating shaft comprising a member mounted for rocking movement, and a member telescopically fitted thereto whereby it may have independent relative sliding movement, a tappet having a lost-motion operative connection with the air-choke valve, a link connection between said tappet and the slidable member of the operating shaft, a cam on the first-mentioned member of the operating shaft, and an angle lever mounted between said cam and the fuel-controlling valve with one arm in engagement with the cam and the other arm in engagement with the said valve.

1,679,457. DYNAMO-ELECTRIC MACHINE. JOHN B. WIARD, Lynn, Mass., assignor to H. C. Dodge, Incorporated, South Boston, Mass., a Corporation of Massachusetts. Filed Aug. 3, 1927. Serial No. 210,291. 7 Claims. (Cl. 172—120.)

5. A dynamo electric machine having a rotor and a stator, the latter comprising a stator core and a stator housing, including end housings forming air chambers at opposite ends of the stator, the machine having air discharge passages circumferentially distributed about the stator between the end air chambers but communicating therewith, the machine being supported by the housing at one end, a by-pass arranged externally the stator and connecting the end air chambers, the said supporting housing being otherwise closed to the admission of external air, an air admission opening in the opposite housing, an air circulation device comprising fan blades driven by the end of the rotor adjacent said housing, and an air deflector for directing the air admitted through said opening



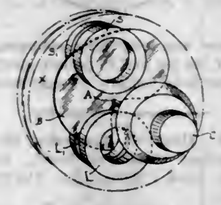
to within the path of the fan blades, whereby cooling air is caused to enter at one end of the stator housing and pass in part directly therethrough to said discharge passages and in part to the opposite end of the stator housing through said by-pass and thence to said discharge passages.

1,679,458. SLOT MACHINE. FREDERICK L. WILLIAMS and GUSTAVE F. KRAFT, Kansas City, Mo. Filed Aug. 9, 1926. Serial No. 128,133. 3 Claims. (Cl. 194—75.)



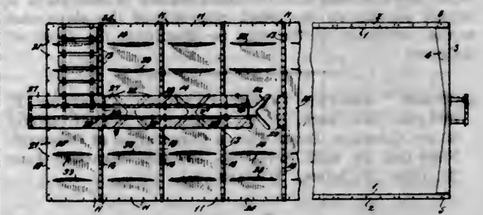
1. In a dispensing device having an open sided shelf for supporting a pile of packages; a pair of bent rods slidably mounted in said device one extremity of each of said rods adapted to partially surround the lower-most package upon said shelf the other extremities of said rods being parallel; a coin block supported between the parallel portions of said rods and adjustably secured thereto, said coin block being U shaped in plan and provided with co-acting grooves in the interior face of the opposite sides of said U to receive the edges of said coin; a lever operable from the exterior of said device and arranged so that its free extremity projects between the sides of said U, so as to contact with the coin in said grooves; a coin chute terminating above said grooves when said slidable rods are in one position and a bar secured to said lever so as to travel therewith and prevent the exit of coins from said coin chute when said grooves are moved away therefrom.

1,679,459. TUNING DEVICE FOR RADIO RECEIVING SETS. PETER WILLIAM WILLANS, Towcester, and ARTHUR STANLEY, Bloomfield, near Chelmsford, England, assignors to Radio Corporation of America, a Corporation of Delaware. Filed Jan. 14, 1925, Serial No. 2,366, and in Great Britain Jan. 16, 1924. 13 Claims. (Cl. 171—242.)



1. A variometer comprising two pairs of inductance coils, the two coils of each pair being similar to one another and mounted coaxially, and an irregular shaped shield mounted upon an axis parallel to the axes of the coils in such a way that it can be rotated so as to lie between the coils of either pair, whereby the inductance of the variometer may be varied in accordance with a predetermined law.

1,679,460. CAR ROOF. THERON H. WILLIAMS, Chicago, Ill., assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 11, 1923. Serial No. 667,955. 9 Claims. (Cl. 108—5.4.)

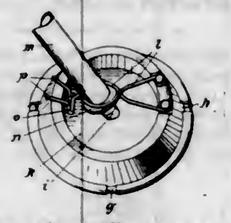


1. In a car roof, in combination: a roof frame comprising side plates, carlines arched from side plate to side plate and channeled on their under sides and formed only at their eaves ends with lateral bottom flanges, and formed between said lateral flanges to provide a flat web and two depending vertical sides, the portions of the flat web of the carlines adjacent the side plates being inclined downwardly and merging into the said lateral bottom flanges thereof, roof sheets formed with seam flanges enclosing the tops and the sides of the carlines; only one of said flanges enclosing all of one side and the top of a carline and a portion only of the other side of the carline in metal to metal contact with the enclosed adjacent parts, said sheets depending down on the outer sides of said side plates; means for rigidly fastening together the seam flanges of said roof sheets with each other and with the tops of said carlines; and means for rigidly securing said roof sheets to said side plates.

1,679,461. ANTISLIPPING DEVICE FOR STANDS AND THE LIKE. RICHARD WÖRSCHING, Starnberg, Germany. Filed May 17, 1927, Serial No. 191,972, and in Germany Apr. 25, 1927. 2 Claims. (Cl. 45—137.)

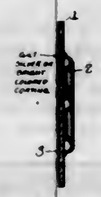
2. An anti-slipping attachment for the feet of tripod legs and the like comprising a member having an opening to receive the point of the end of the leg, and a pair of

spring clamps each secured at one end to said member and having a manipulating handle at its opposite end, the intermediate portions of the clamps being offset in



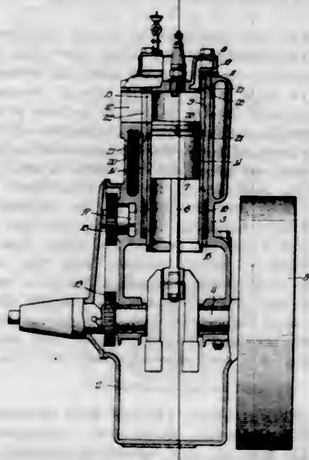
opposite directions and providing clamping portions to engage the end of the leg and to permit yielding movement thereof in all directions radially of said member.

1,679,462. SIGN. HARRY F. ANDERSON, Marion, Ind., assignor of one-half to James Boyce, Laketon, Mich. Filed May 22, 1926. Serial No. 110,873. 1 Claim. (Cl. 40—141.)



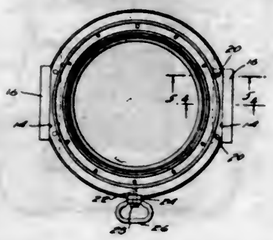
A sign comprising, in combination, a frame, a clear glass plate having a rough rear surface and a smooth front surface mounted in said frame, a character of translucent glass cemented to the front surface of said plate, a colored coating on the rough rear side of the plate, and means exteriorly of the sign to illuminate the front of the plate.

1,679,463. ENGINE CONSTRUCTION. CLARENCE E. BONNER, New York, N. Y., assignor to Bonner-Charter Motor Company, Dover, Del., a Corporation of Delaware. Filed Oct. 28, 1922, Serial No. 597,468. Renewed June 23, 1928. 3 Claims. (Cl. 123—80.)



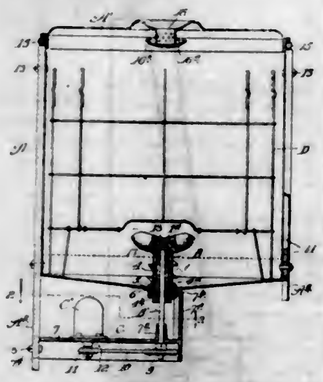
1. In a cylinder construction adapted for use with fluid under pressure, a fixed cylinder member having ports therein and having an inner cylindrical surface, a second cylinder removable from the fixed cylinder and having an exterior cylindrical surface and ports therein, a sleeve valve adapted to be rotated between said cylinders to control said ports, circumferential steps on the outside and inside of said valve member, cooperating steps on said other members to entirely seal said members from leakage, said steps being located upon opposite sides of the port.

1,679,464. PRESS POT AND PROCESS OF MAKING SAME. FRED S. CARVER, East Orange, N. J. Filed Mar. 14, 1925. Serial No. 15,642. 4 Claims. (Cl. 29—148.)



1. The process of making a press pot, which includes the steps of forging same as a ring of uniform circular section, machining same as a ring of uniform circular section, thereafter flattening the ring on opposite sides, and attaching guide lugs to the flattened parts.

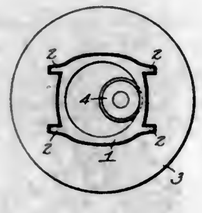
1,679,465. DISHWASHING MACHINE. GEORGE W. CONOVER, Chicago, Ill., assignor to The Conover Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 24, 1920. Serial No. 353,841. 9 Claims. (Cl. 141—9.)



1. In a dish-washing machine, the combination of a vessel, a central vertical shaft extending through the bottom thereof and provided with a suitable bearing, means connected with the lower end of and serving to rotate said shaft, and a water-elevating and spreading device carried by the upper end of said shaft and comprising a screw for elevating the water centrally and a deflector constituting a continuation of said screw and adapted to further elevate and spread the water.

1,679,466. METHOD OF FORMING WATCHCASES. HARRY COOK, Sag Harbor, N. Y., assignor to Joseph Fahys & Company, New York, N. Y., a Corporation of New York. Filed Nov. 9, 1925. Serial No. 67,881. 3 Claims. (Cl. 29—179.)

1. The method of making a watch-case center in one piece with integrally-formed lugs, which method consists in forming a blank provided with projecting lugs and substantially similar in contour to the finished one-piece watch-case center, in placing said blank in a die having



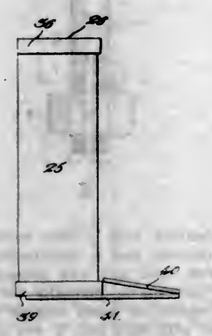
a contour corresponding to that of the finished one-piece watch-case center, and finally in applying pressure to said blank to expand said blank into exact conformity to the contour of said die.

1,679,467. SEAL. JOHN L. DINSMOOR, New York, N. Y. Filed May 28, 1925. Serial No. 33,382. 3 Claims. (Cl. 292—314.)



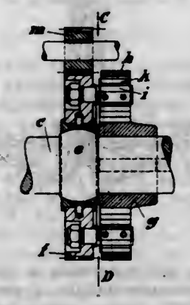
1. A seal formed of a strip of flexible material including in combination two tubular studs formed from said strip, each of said studs having an inturned outer flange, an orifice near one end of said strip adapted to be entered by one of said studs, the other of said studs adapted to telescope over said first mentioned stud, said studs and orificed strip-end being adapted for interlocking by compression.

1,679,468. DISPLAY CASE. ARTHUR L. GARNISS, Springfield, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a Corporation of Massachusetts. Filed Oct. 24, 1927. Serial No. 228,122. 5 Claims. (Cl. 206—44.)



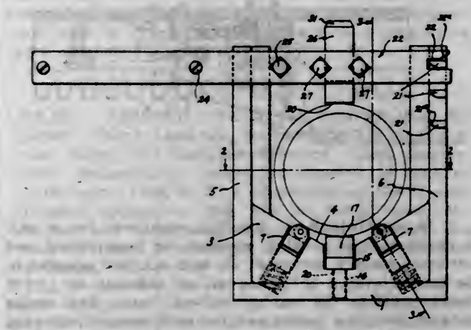
1. A container comprising a formed body portion consisting of a case having back, side, bottom and top walls, a base secured to said bottom wall, and a top piece hinged to said top wall and having side and front flanges, and a front wall hinged to the base of said body portion, and made up of two hingedly joined sections, the inner section being secured to said base and the outer section being free, whereby said front wall in one position closes said container and in the other position opens said container disclosing the contents thereof, said front wall being held closed by the flange of said top piece and when in the open position the outer section of said wall forms a surface on which said body portion is supported vertically and inner section forms a surface in front of said base upon which any desired insignia may be displayed.

1,679,469. RAIL VEHICLE. JOSEF GEIGER, Augsburg, Germany, assignor to Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany, a Corporation of Germany. Filed May 21, 1926, Serial No. 110,637, and in Germany June 2, 1925. 5 Claims. (Cl. 105—131.)



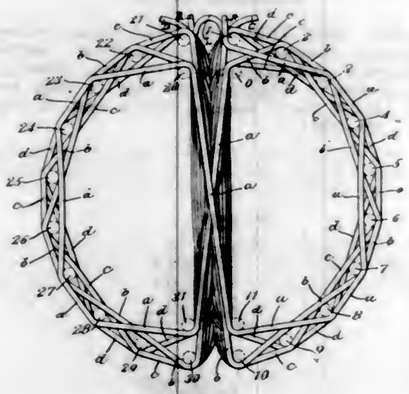
1. In combination with a rail vehicle operated by a combustion motor, a driving axle carrying a ball journal, a gear-wheel mounted loosely upon said ball journal, resilient means for coupling said gear-wheel to said driving axle, said resilient means comprising a disk, which is rigidly mounted upon said driving axle, driving pins mounted on said gear-wheel, said driving pins projecting into recesses in said disk, and springs interposed between said pins and the walls of said recesses of said disk.

1,679,470. PIPE CUTTER. LOUIS H. GOELTZ, Milwaukee, Wis. Filed Mar. 4, 1927. Serial No. 172,581. 12 Claims. (Cl. 81—187.)



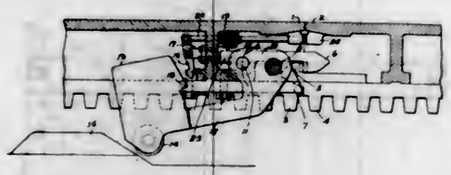
1. A pipe cutter comprising cooperable chisels and means for centering the pipe between the chisels, including a pair of spring projected rollers.

1,679,471. ELECTRIC COIL. DWIGHT B. HILL, Winchester, Mass., assignor of one-half to Herbert F. French, Randolph, Mass. Filed Apr. 30, 1925. Serial No. 26,997. 3 Claims. (Cl. 175—359.)



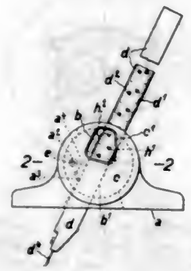
1. An electric coil comprising a continuous winding which extends circumferentially of the coil throughout approximately 180°, thence substantially diametrically from side to side, thence approximately 180° in the opposite direction, thence substantially diametrically in the opposite direction, and so on throughout succeeding turns, the circumferential portions having an inner and outer periphery, the winding crossing back and forth between the inner and outer peripheries throughout the circumferential portions, the diametrical portions of some of the turns spanning the inner periphery and the diametrical portions of others of the turns spanning the outer periphery.

1,679,472. CAR-COUPLING APPARATUS. HALBERT K. HITCHCOCK, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed June 9, 1926. Serial No. 114,644. 6 Claims. (Cl. 51—240.)



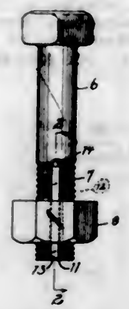
1. In combination in coupling apparatus for a car, a coupling hook member mounted for longitudinal and vertical swinging movement on said car, and adapted to be hooked over a projection on an adjacent car, pivot means fixed in the end of the car, toggle link means between the pivot means and the hook member, arranged to move the hook member so as to draw it inward towards the projection on the adjacent car to thereby draw the cars together as the link means swings in one direction, means for yieldingly forcing the link means in such direction, a latch for holding the link means in its reverse position, and means for releasing the latch.

1,679,473. DEPTH GAUGE. WALTER KABISIUS, Jena, Germany, assignor to the Firm of Carl Zeiss, Jena, Germany. Filed May 26, 1923, Serial No. 641,647, and in Germany Dec. 14, 1920. 2 Claims. (Cl. 33—169.)



1. In a depth gauge, a body having a side constituting a stop surface, a cylindrical guide carried by said body rotatable on an axis parallel to the plane of said side and perpendicular to the longitudinal axis thereof, there being a slot in said guide perpendicular to the pivotal axis thereof, a measure slidably fitting said slot, there being a plurality of scales on said measure, and cooperating indices on said guide, each scale corresponding to a certain definite angular position of said guide and scale relative to said stop surface, whereby the perpendicular distance from the end of said measure to the stop surface may be read off.

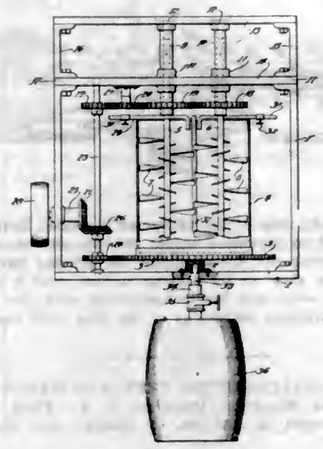
1,679,474. NUT LOCK. GUSSIE V. KENTON, Overland, Mo. Filed Aug. 24, 1927. Serial No. 215,112. 2 Claims. (Cl. 151—8.)



1. In combination with a bolt having a longitudinal slot formed therein, and a longitudinal recess in communication with said slot and beneath the threads of said bolt, a leaf spring pivotally secured in said slot so as to be capable of being rotated into the recess in communication with said slot, a nut having a longitudinal slot formed therein.

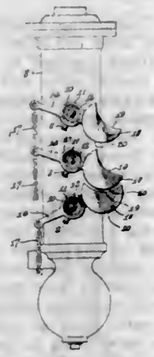
1,679,475. PROCESS OF MAKING EMULSIONS AND PRODUCT THEREOF. LESTER KIRSCHBRAUN, Leonia, N. J. Original application filed Aug. 21, 1922, Serial No. 583,407. Divided and this application filed Mar. 24, 1926. Serial No. 96,965. 3 Claims. (Cl. 134—1.)

1. A process of making an emulsion, consisting in mixing a colloidal emulsifying agent with such proportion of the end product of a previously prepared emulsion of the same general characteristics as to produce a paste, in subsequently adding thereto bituminous mate-



rial in heated liquid condition, agitating, producing dispersion of the added bituminous material and thereby producing fresh emulsion.

1,679,476. STEAM GAUGE. WILFRED H. KUHN, Detroit, Mich., assignor to Wright-Austin Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 26, 1926. Serial No. 104,605. 5 Claims. (Cl. 251—147.)



3. The combination of a series of gauge cocks arranged in a vertical row and near together, each cock comprising stem for operating said valve projecting from said body, a detachable and reversible valve seat for said valve, a stem for operating said valve projecting from said body, and an operating lever on the outer end of said stem, said operating lever having a hub portion mounted on said stem and a weight member at one side of said hub and an arm at the opposite side of the hub, and means for frictionally securing said hub against rotation relative to said stem to provide for adjustment of said levers on the several cocks, relative to each other when the seating of a valve upon its seat is changed by the renewal or reversal of its valve seat.

1,679,477. RESERVE DYEING ON VEGETABLE FIBERS. HANS LEEMANN, Bottmingermuhle-Binningen, near Basel, and GIOVANNI TAGLIANI, Basel, Switzerland, assignors, by mesne assignments, to Munitex Corporation, Lodi, N. J., a Corporation of New Jersey. Original application filed Apr. 27, 1925, Serial No. 26,289, and in Germany May 7, 1924. Divided and this application filed May 20, 1926. Serial No. 110,536. 10 Claims. (Cl. 8—5.)

1. A process for reverse dyeing on vegetable fibers, which consists in treating topically the vegetable fibers by a local printing with an alkalizing agent, thereupon applying an esterifying aromatic acid chloride to produce a topical alteration of the locally printed fiber, thus constituting reserve effects, then washing subsequently to the esterification, thereupon dyeing the reserved parts thus obtained and finally effecting a subsequent dyeing of the unaltered vegetable fibers.

1,679,478. RESERVE DYEING ON VEGETABLE FIBERS. HANS LEEMANN, Bottmingermuhle-Binningen, near Basel, and GIOVANNI TAGLIANI, Basel, Switzerland, assignors, by mesne assignments, to Munitex Corporation, Lodi, N. J., a Corporation of New Jersey. Original application filed Apr. 27, 1925, Serial No. 26,289, and in Germany May 7, 1924. Divided and this application filed May 20, 1926. Serial No. 110,538. 4 Claims. (Cl. 8—5.)

1. A process for reserve dyeing on vegetable fibers, which consists in treating topically the vegetable fibers by a local printing with an alkalizing agent, thereupon applying an esterifying aromatic acid chloride to produce a topical alteration of the locally printed fiber, thus constituting reserve effects, then washing after the esterification, and thereupon dyeing the thus topically altered fibers first with an acid dyestuff and then with a substantive dyestuff.

1,679,479. RESERVE DYEING ON VEGETABLE FIBERS. HANS LEEMANN, Bottmingermuhle-Binningen, near Basel, and GIOVANNI TAGLIANI, Basel, Switzerland, assignors, by mesne assignments, to Munitex Corporation, Lodi, N. J., a Corporation of New Jersey. Original application filed Apr. 27, 1925, Serial No. 26,289, and in Germany May 7, 1924. Divided and this application filed May 20, 1926. Serial No. 110,539. 4 Claims. (Cl. 8—5.)

1. A process for reserve dyeing on vegetable fabrics, which consists in treating topically the vegetable fibers by a local printing with an alkalizing agent, thereupon applying an esterifying aromatic acid chloride to produce a topical alteration of the locally printed fiber, thus constituting reserve effects, then washing after the esterification, and thereupon dyeing the thus topically altered fibers in one single bath with both a substantive and a convenient acid dyestuff.

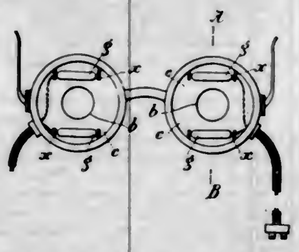
1,679,480. RESERVE DYEING ON VEGETABLE FIBERS. HANS LEEMANN, Bottmingermuhle-Binningen, near Basel, and GIOVANNI TAGLIANI, Basel, Switzerland, assignors, by mesne assignments, to Munitex Corporation, Lodi, N. J., a Corporation of New Jersey. Original application filed Apr. 27, 1925, Serial No. 26,289, and in Germany May 7, 1924. Divided and this application filed May 20, 1926. Serial No. 110,540. 4 Claims. (Cl. 8—5.)

1. A process for reserve dyeing on vegetable fabrics, which consists in treating topically the vegetable fibers by a local printing with an alkalizing agent, thereupon applying an esterfying aromatic acid chloride to produce a topical alteration of the locally printed fiber, thus constituting reserve effects; then washing after the esterification, and thereupon treating the thus topically altered fibers first with a salt of a diazotable base and then after diazotizing with developing means.

1,679,481. RESERVE DYEING ON VEGETABLE FIBERS. HANS LEHMANN, Bottmingermuhle-Binningen, near Basel, and GIOVANNI TAGLIANI, Basel, Switzerland, assignors, by mesne assignments, to Munitex Corporation, Lodi, N. J., a Corporation of New Jersey. Original application filed Apr. 27, 1925, Serial No. 26,289, and in Germany May 7, 1924. Divided and this application filed May 20, 1926. Serial No. 110,541. 4 Claims. (Cl. 8—5.)

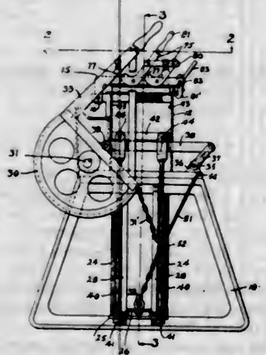
1. A process for reserve dyeing on vegetable fibers, which consists in treating topically the vegetable fibers by a local printing with an alkalizing agent, thereupon applying an esterifying aromatic acid chloride to produce a topical alteration of the locally printed fiber, thus constituting reserve effects, then washing after the esterification, thereupon treating the thus topically altered fibers with covering substances and afterwards dyeing same first with a basic and then with a substantive dyestuff, in order to obtain batik effects.

1,679,482. SPECTACLES WITH LIGHTING DEVICE. BERNHARD LERDEN, Vienna, Austria. Filed June 1, 1925, Serial No. 34,190, and in Austria June 6, 1924. 2 Claims. (Cl. 128—23.)



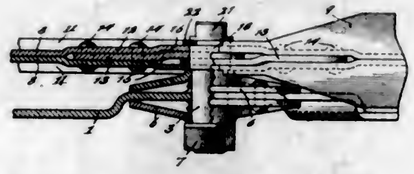
1. A device of the character described, comprising a pair of bridge-connected annular members of channel shape in cross section, a plurality of pairs of lamp holders secured in each of said annular members, and a tubular incandescent lamp removably supported in each pair of holders.

1,679,483. BLOCK-MOLDING MACHINE. ANSON F. LEWIS, deceased, Santa Barbara, Calif., by Elizabeth Lewis, administratrix, Santa Barbara, Calif., assignor to Mortarless Tire Machine Company, Santa Barbara, Calif., a Corporation of California. Filed Dec. 28, 1925. Serial No. 77,953. 16 Claims. (Cl. 25—83.)



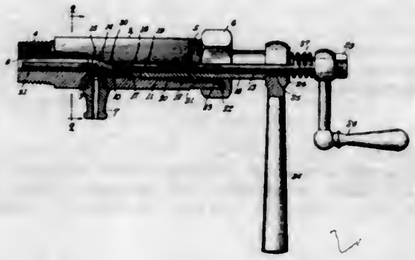
1. In a concrete block machine, a mold, cores in said mold, an upwardly moving compression member movable between the cores and the mold, a plurality of rods connected to said compression member and means to move said rods vertically, said means comprising a pair of levers, and means to move said levers horizontally and upwardly.

1,679,484. BRAKE SHOE AND MOUNTING THEREFOR. MALCOLM LOUGHEAD, Detroit, Mich., assignor to Hydraulic Brake Company, Los Angeles, Calif., a Corporation of California. Filed Mar. 17, 1927. Serial No. 175,957. 6 Claims. (Cl. 188—250.)



3. A brake shoe of the character described having one end formed to provide a thrust bearing surface, a brake shoe mounting pin for engaging the bearing surface to support the shoe on its bearing surface, and a member carried by said shoe for encompassing said pin to preclude longitudinal movement of the shoe with respect to the pin.

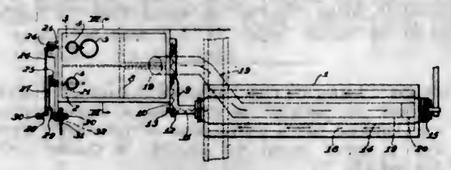
1,679,485. SALINOMETER, TEST, AND GAUGE COCK. JAMES D. MAXWELL, Brooklyn, N. Y. Filed Dec. 7, 1926. Serial No. 153,168. 5 Claims. (Cl. 251—37.)



3. A gauge cock comprising a valve body having a steam passage at the inner end of the same, an enlargement providing a steam chamber at the outer end of said passage and a conical valve seat between said passage and chamber, a valve stem having a scraper operating in the steam passage and a valve head operating in the steam chamber, said valve head having oppositely facing conical valve faces at the ends of the same, the inner one adapted to engage the valve seat in the valve body, a sleeve having a screw engagement in the valve body, said sleeve surrounding the outer portion of the valve stem and having a conical face at the inner end of the same adapted to engage the outer conical face of the valve head and an angularly projecting lever handle on the outer end of said sleeve by which said sleeve may be forcibly turned to effect close fitting firm engagement of the valve faces at opposite ends of the valve head with the valve seats in the body and at the end of the sleeve respectively, the outer end of the valve stem having means to enable the turning of the same to re-surface the conical valve faces aforesaid and a cap screw engaged on the end of the body, said cap screw having a hub surrounding the screw sleeve and the screw sleeve having a stop shoulder for engagement with said hub.

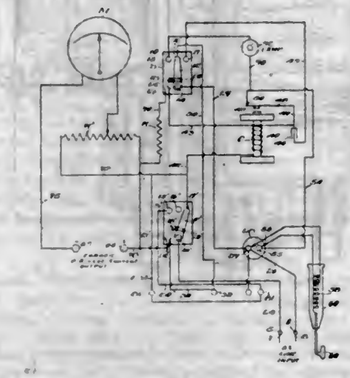
1,679,486. SODA-ASH FURNACE. DWIGHT R. MEANS, Medina County, Ohio, assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Oct. 14, 1926. Serial No. 141,597. 7 Claims. (Cl. 23—279.)

1. Apparatus for calcining soda, comprising a covered calcining pan arranged to discharge the calcined material at one end and provided with agitators, means for operating the agitators, a rotary furnace in position to receive the discharge from said pan, a combustion furnace



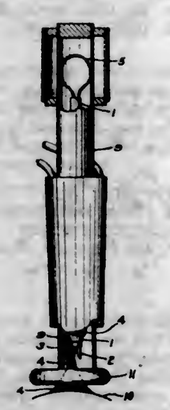
beneath the pan, and means for conducting the heated gases from the combustion furnace along the shell of the rotary furnace.

1,679,487. ELECTRIC-CURRENT SYSTEM. WILLIAM MEYER, Chicago, Ill. Filed July 31, 1925. Serial No. 47,182. 11 Claims. (Cl. 174—177.)



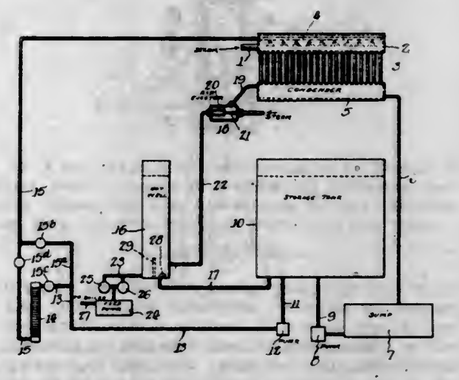
1. In an electric current system, the combination of a high frequency circuit, an induction circuit and a common single winding coil for both said circuits, said coil operating as a charging coil in the high frequency circuit and furnishing faradic current in a separate circuit by self-induction.

1,679,488. HAIR-WAVING CURLER. CHARLES NESSLER, New York, N. Y. Filed Jan. 8, 1926. Serial No. 79,959. 7 Claims. (Cl. 132—36.)



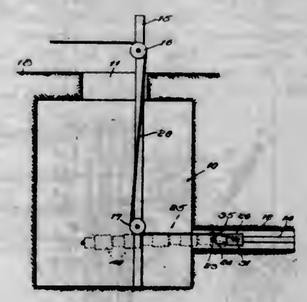
1. A curler for permanent hair waving, comprising a rod around which a tress of hair may be wound for insertion in a heater, the said rod having mounted thereon a laterally compressible yielding member insertable with said rod and adapted to engage frictionally the interior of the heater and placed under tension thereby.

1,679,489. WATER SYSTEM. CHARLES B. PAGE and WARREN DEAN BURTON, Evanston, Ill., assignors to George W. Dulany, jr., Chicago Ill. Filed Sept. 28, 1925. Serial No. 58,996. 4 Claims. (Cl. 257—38.)



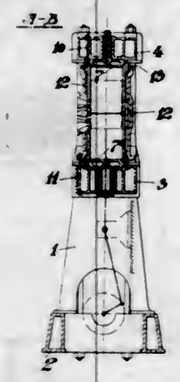
1. A water system comprising, in combination, a radiator for condensing steam, a sump to receive water from said radiator, a cool-water storage tank, a pump for forcing water from the sump to the storage tank, a relatively small hot well, an equalizing pipe connecting the lower portions of said storage tank and hot well, an air ejector for withdrawing air from the radiator, said ejector comprising a steam nozzle, the mixture of air and steam being delivered to said hot well, a pump for delivering hot boiler feed water from the hot well, a second radiator, a spray pipe operatively related to the first radiator, and a pump for forcing cool water from said storage tank through the second radiator and thence to said spray pipe.

1,679,490. CABLE-PULLING DEVICE. HENRY L. PARKER, Chicago, Ill. Filed Dec. 18, 1926. Serial No. 155,567. 8 Claims. (Cl. 175—376.)



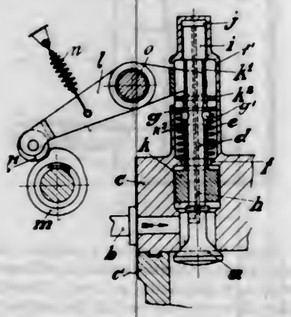
4. In an apparatus for pulling a flexible cable through a conduit, an integral tubular sleeve insertable in one end of the conduit and embracing an end of the cable, means for connecting the external end of the sleeve to said end of the cable, said means comprising a transverse pin extending through the end of the cable and resting against the end of the sleeve, and flexible pulling means connected to a portion of the sleeve inside of the conduit.

1,679,491. VERTICAL INTERNAL-COMBUSTION ENGINE. GUSTAV PIELSTICK, Augsburg, Germany, assignor to the Firm Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany, a Corporation of Germany. Filed Apr. 11, 1925, Serial No. 22,294, and in Germany May 15, 1924. 10 Claims. (Cl. 123—61.)



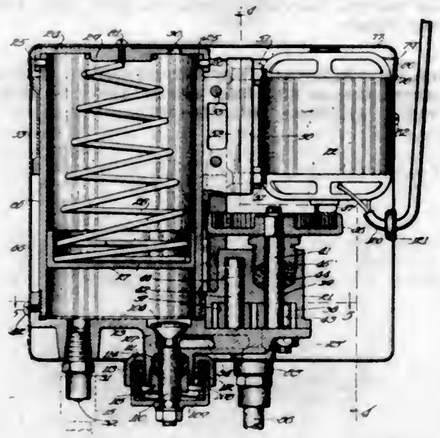
4. In a double-acting internal combustion engine of the character described, a cylinder, a cylinder head for each end of the cylinder, a supporting framework for said cylinder comprising a supporting member seating against each cylinder head, and stays for holding said supporting members in spaced relation, said cylinder comprising a cooling jacket, a cylinder liner therein divided transversely of said cylinder into two parts, means clamping one part of said liner to the adjacent supporting member to hold said part of the liner in gas-tight relation against the adjacent cylinder head, means clamping the cooling jacket to the other supporting member, said cooling jacket and the other part of the liner having cooperating engaging surfaces whereby the other part of said liner is clamped in gas-tight relation against the other cylinder head, and tie means connecting the supporting members together to clamp the whole in assembled relation, whereby each part of the liner is permitted to freely expand toward or contract away from the other part.

1,679,492. STARTING DEVICE FOR STARTING COMBUSTION ENGINES. GUSTAV PIELSTICK, Augsburg, Germany, assignor to Maschinenfabrik-Augsburg-Nuernburg Aktiengesellschaft, Augsburg, Germany, a Corporation of Germany. Filed Sept. 14, 1925, Serial No. 56,260, and in Germany Sept. 20, 1924. 10 Claims. (Cl. 60—16.)



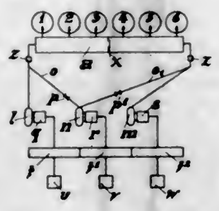
1. A starting device for starting internal combustion engines by pressure air, comprising a starting valve, actuating mechanism, means urging said actuating mechanism toward inoperative positioning, and a controlling piston responsive to starting air pressure for moving said actuating mechanism into operative positioning and concomitantly urging said starting valve toward closed position during starting of said engine.

1,679,493. LUBRICATING SYSTEM. EARL F. PIERCE, Chicago, Ill., assignor to The Bassick Manufacturing Co., Chicago, Ill., a Corporation of Delaware. Filed Feb. 2, 1921. Serial No. 441,738. 4 Claims. (Cl. 221—47.4.)



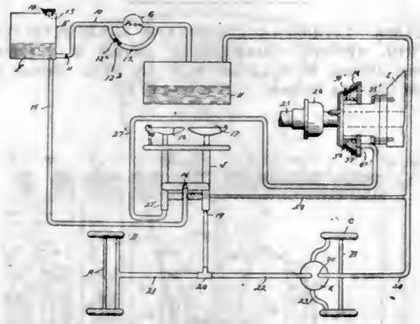
1. A manually portable high pressure lubricating device for successively lubricating a plurality of bearings, comprising a continuously operable, power driven compressor, a discharge conduit therefor having means for forming a lubricant-tight connection with a bearing to be lubricated, means for relieving the pressure in said discharge conduit when a predetermined maximum pressure is reached, and manually adjustable means for determining said predetermined pressure.

1,679,494. POWER PLANT. MAXIMILIAN PLOCHMANN, Augsburg, Germany, assignor to Maschinenfabrik Augsburg-Nuernberg A.-G., Augsburg, Germany, a Corporation. Filed Mar. 13, 1926, Serial No. 94,525, and in Germany Mar. 23, 1925. 10 Claims. (Cl. 123—59.)



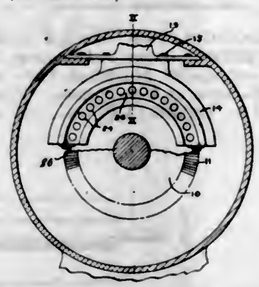
2. In apparatus of the character described, an arrangement of blowers acting as scavenging pumps for a two stroke internal combustion engine operating with scavenging air, comprising three blowers, each of which is capable of giving a normal delivery equal to half the scavenging air requirement of the said engine, two of said blowers being used for normal working of said engine and one being held in reserve, and independent motors for driving each of said blowers.

1,679,495. BRAKE CONSTRUCTION. THOMAS F. RAINSFORD, Detroit, Mich., assignor of one-fourth to Thomas C. Whitehead, Detroit, Mich. Original application filed Apr. 6, 1925, Serial No. 21,137. Divided and this application filed Dec. 17, 1925. Serial No. 76,072. 16 Claims. (Cl. 188—194.)



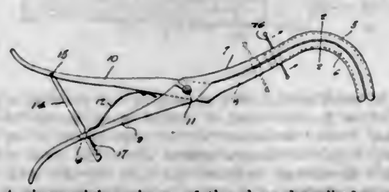
4. The combination with a pair of steering wheels of a fluid pressure operated brake unit for each of said wheels, a source of fluid under pressure, a supply pipe for conducting said fluid from said source to said brake units, a steering wheel control device for controlling the flow of fluid through said supply pipe, said device including a member movable upon a steering movement of said steering wheels for automatically releasing the fluid pressure applied to the steering wheel brake unit upon a predetermined steering position of the steering wheels.

1,679,496. TURBINE-NOZZLE MANIFOLD. JAMES L. RAY, Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 28, 1924. Serial No. 702,492. 4 Claims. (Cl. 253—78.)



1. A high-pressure turbine nozzle manifold formed from one piece of forged steel, and having therein a circumscribed curved distributing passage and a plurality of ports communicating therewith, said ports being so spaced as to leave sufficient metal around said passage to withstand the high pressure therein.

1,679,497. CIRCUMCISION CLAMP. ERNEST E. REEVES, Ridgeway, S. C. Filed Sept. 14, 1927. Serial No. 219,452. 4 Claims. (Cl. 128—305.)



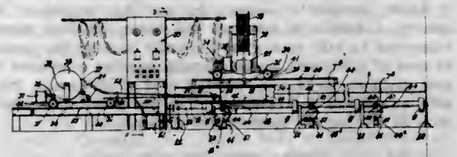
1. A circumcision clamp of the class described comprising a pair of curved concentric jaws provided on opposite sides with channels having slots registering with each other, blocks slidable in the channels and a knife connecting the blocks extending through the slots.

1,679,498. FLOOR MAT FOR VEHICLES. EDWARD E. RICHARDSON, Maumee, Ohio. Filed Jan. 9, 1926. Serial No. 80,170. 16 Claims. (Cl. 74—81.)



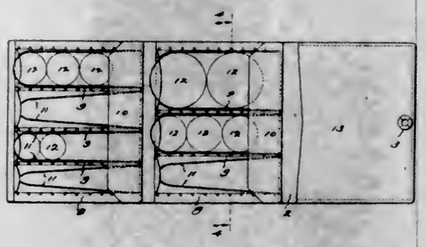
15. A mat having slots therethrough for the passage of levers, resilient flanges of progressively increasing flexibility closing said slots, and sections between two adjacent slots formed to constitute halves of a scarf joint.

1,679,499. METHOD OF AND APPARATUS FOR MAKING STOVEPIPE CASINGS. WILLIAM E. RUPLEY, Los Angeles, Calif., assignor to Western Pipe & Steel Company of California, San Francisco, Calif., a Corporation of California. Filed Sept. 26, 1925. Serial No. 58,951. 9 Claims. (Cl. 219—6.)



1. The method of forming stove pipe casing which comprises welding the abutted ends of a plurality of tubular sections together and to a substantially concentric abutted casing within said sections.

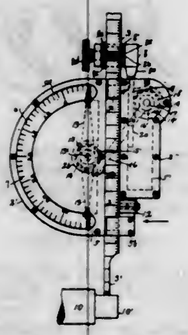
1,679,500. POCKETBOOK. WILLIAM H. SANFORD, Hartford, Conn. Filed Oct. 12, 1926. Serial No. 141,084. 2 Claims. (Cl. 150—35.)



1. A folding pocketbook comprising a flexible outside strip and a flexible inside strip permanently joined at one end and adapted when unfolded to receive bills between them, stubs having their edges extending across and fastened between the strips at the closed end thereof for receiving and separating the ends of the bills which are drawn lengthwise from said stubs and from between the strips when unfolded, coin troughs of different widths with transparent faces extending longitudinally of the strips and having both ends open, attached to

the outer face of said inside strip, a flexible flap attached to said inside strip so as to fold over the inner ends of said troughs, and spring fingers restricting the openings from the outer ends of said troughs.

1,679,501. INDICATOR GAUGE. LINO SCUSA, Phoenix, N. Y. Filed Sept. 29, 1927. Serial No. 222,807. 14 Claims. (Cl. 33—172.)



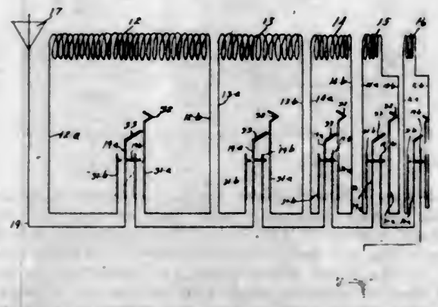
1. An indicator gauge comprising a scale, a gravitative scale bar adapted to indicate measurements of a piece of work, means to mount the bar for movement by gravity, a needle to traverse said scale, resilient means connected to said needle for normally holding the needle at zero of said scale, an oscillatable member connected to said resilient means for moving said needle away from zero, and means depressible by the final gravitative movement of the bar for operating said member.

1,679,502. BOTTLE-MAKING MACHINE. SYDNEY L. SEARS, North Arlington, N. J., assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Original application filed Aug. 14, 1914, Serial No. 857,464. Renewed Sept. 21, 1921, Serial No. 502,181. Divided and this application filed Feb. 1, 1924. Serial No. 689,995. 40 Claims. (Cl. 49—5.)



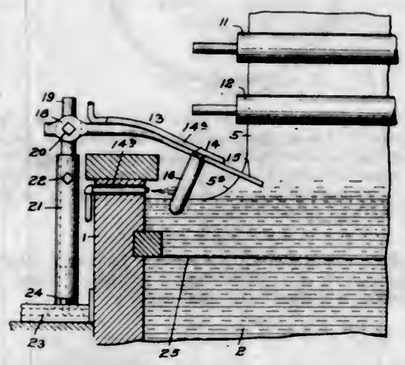
1. In a machine for making molded articles, a frame having a track composed of a main portion in the form of a convex arc of a circle, and another portion, in the form of a concave arc of a circle, connecting the ends of said main portion, a carriage having means to engage said track and to travel along the same, mold portions connected with said carriage and adapted to pass substantially in registry with the center of said concave arc, and means for moving the carriage and for completing the formation of a molded article during the travel of the carriage.

1,679,503. INDUCTANCE COIL AND SELECTIVE CONTROL SWITCH THEREFOR. GEORGE R. SIEGRIST, Port Huron, Mich. Filed Sept. 14, 1922. Serial No. 588,126. 14 Claims. (Cl. 171—242.)



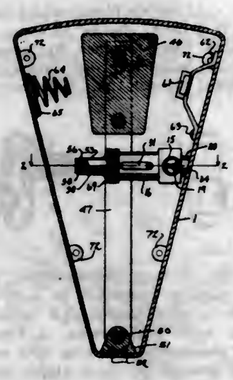
3. In an electric circuit, the combination with an inductance coil sub-divided into a plurality of coil winding sections having independent terminals, of a selective multiple switch adapted to cooperate with said terminals to connect desired coil winding sections individually or in combination in said circuit in a direct progression based upon a given predetermined unit into which the coil is not naturally sub-divided and simultaneously disestablish the connection with the circuit of the unused windings.

1,679,504. EDGE-HOLDING DEVICE FOR SHEET-GLASS MACHINES. HARRY G. SLINGLUFF, Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Mar. 26, 1923. Serial No. 627,675. 4 Claims. (Cl. 49—17.)



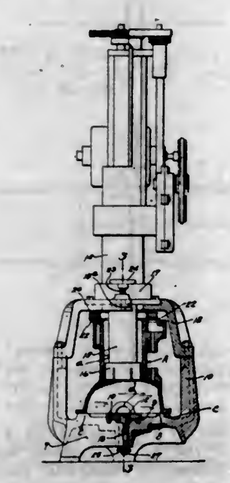
1. In combination with apparatus for drawing a glass sheet from an open pool of molten glass, means for preventing inward movement of the edge of the sheet comprising a pair of fingers spaced apart and fixed against relative movement adjacent the base of the sheet just above the surface of the bath so that they straddle said edge and thin it as the edge moves upward therethrough.

1,679,505. TIRE PUMP. WILLIAM M. STEWART, Albany, N. Y.; Annie E. Stewart administratrix of said William M. Stewart, deceased. Filed Dec. 1, 1924. Serial No. 753,395. 4 Claims. (Cl. 152—11.)



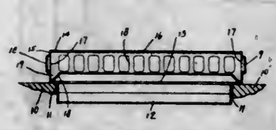
1. A tire pump mechanism mounted on an automotive vehicle wheel and including, in combination, a pump and means including an oscillating weight carrying member associated with said pump and actuated by gravity during the motion of said vehicle wheel to operate said pump to pump air into the tire of the wheel.

1,679,506. CYLINDER-RENEWING MACHINE. ADOLPH STORM, Minneapolis, Minn., assignor to Storm Manufacturing Company, Incorporated, Minneapolis, Minn., a Corporation. Filed Oct. 17, 1925. Serial No. 62,991. 10 Claims. (Cl. 29—26.)



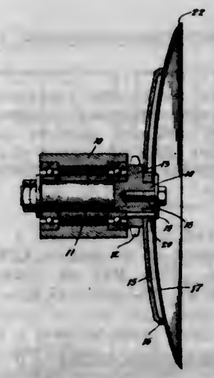
1. A machine of the kind described comprising a bed, an aligning slide mounted on said bed and having aligning devices engageable with a cylinder block to connect the same thereto for common movement therewith to locate the cylinders of the cylinder block with their axes spaced longitudinally of the line of movement of said slide and perpendicular to said slide, a rotary renewing tool capable of axial movements and having its axis in a plane common to the axes of said cylinders and parallel to the said cylinder axes, and an aligning device operative to secure said aligning slide in positions to hold said cylinder block with the axis of the one or the other of the cylinders in alignment with the axis of said renewing tool.

1,679,507. REGISTER FILTER. MORRIS SHALANSKY, Indianapolis, Ind. Filed Dec. 10, 1926. Serial No. 153,994. 1 Claim. (Cl. 98—105.)



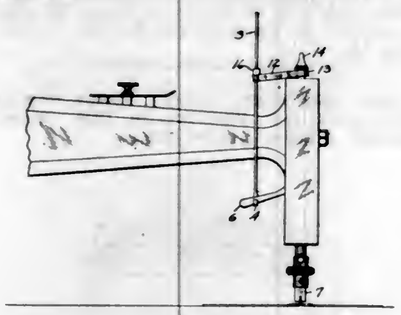
In combination with a register controlled channel and a supporting surface, of a register filter supported by said surface including a wall peripherally enclosing the register and substantially inclosing the supporting surface and forming a continuation of the register controlled channel, said wall having a plurality of openings near the top to discharge laterally of the channel, a filtering screen supported by said wall and substantially transverse to said channel and at the top of said wall and an inwardly directed deflecting wall peripherally associated with the bottom of said wall and substantially coextensive therewith for directing heated air from the register controlled channel inwardly to the central portion of said filtering screen.

1,679,508. KNIFE FOR SLICING MACHINES. HENDRIK STUKART, La Porte, Ind., assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed Jan. 16, 1924. Serial No. 686,496. 3 Claims. (Cl. 146—102.)



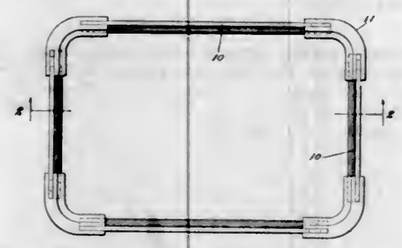
1. In a slicing machine, a knife spindle having a supporting member mounted thereon provided with a circular laterally facing bearing ring, a relatively thin flat disc knife having its lateral face engaging said bearing ring and having a central opening therein, a central boss connected with said spindle for engaging said opening, and a threaded member for forcing the central portion of said knife laterally to press the face of said knife against said bearing ring and to dish said knife to provide a concave cutting face.

1,679,509. DARNING ATTACHMENT FOR SEWING MACHINES. BELLE D. TAFT, Oakland, Calif. Filed Aug. 31, 1925. Serial No. 53,479. 2 Claims. (Cl. 112—237.)



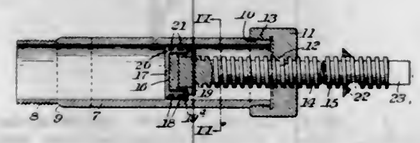
1. An attachment of the character described comprising a rod having presser-foot engaging means thereon, a clamp slidably mounted thereon and arranged for engagement with a relatively fixed portion of the machine, and a stop member adjustably positioned on the rod and arranged for cooperation with said clamp.

1,679,510. BOX FOR USE AT HIGH TEMPERATURES. EDWARD P. VAN STONE, Reading, Mass., assignor to General Alloys Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 7, 1927. Serial No. 181,719. 6 Claims. (Cl. 263—48.)



1. In a box for use at high temperatures, an open ended wall structure comprising a plurality of sheet metal side plates, and cast members connecting said plates, said members being independent of each other and freely movable with the expansion and contraction of said plates.

1,679,511. GREASE GUN. WILLIAM J. WARD, Hazelwood, Pa., assignor of one-half to Clifford F. Pugh, Pittsburgh, Pa. Filed May 27, 1927. Serial No. 194,554. 3 Claims. (Cl. 221—47.4.)



1. In a grease gun primarily for filling cups of main and side rods of locomotives, a hollow grease-container body of substantially uniform diameter throughout its length, means for securely attaching one end of said body to the cups, a cap on said body, a grease-expressing piston having a stem passing through said cap into the body, said stem being relatively stout, said cap and stem having interengaging screw threads whereby said stem may be screwed down to express grease, and thereby avoid tilting strains on the gun and consequent rupture of said cups when the gun is operated.

1,679,512. LUBRICATING APPARATUS. OSCAR ZERK, now, by judicial change of name, Oscar Ulysses Zerk, Cleveland, Ohio, assignor, by mesne assignments, to The Bassick Manufacturing Company. Filed Mar. 14, 1921. Serial No. 452,126. 3 Claims. (Cl. 285—9.)



1. In a device of the class described, a flexible tubing, a socket member connected to each end thereof, a plug swivelled in each socket and having an opening communicating with said tubing, a threaded opening in one of said plugs communicating with said first named opening, a cup member having a nipple threaded in said opening, a second member having a cup member seated in said first cup member, a washer between said cup members and slidable in said cup members, means for holding said washer on the bottom of one of said cup members, and means carried by the other socket for effecting a quick detachable connection with a lubricant receiving member.

1,679,513. COLLAPSIBLE POLE. NEWTON N. BROWN, Racine, Wis., assignor to Gold Medal Camp Furniture Manufacturing Company, Racine, Wis., a Corporation of Wisconsin. Filed Jan. 30, 1924. Serial No. 689,468. 1 Claim. (Cl. 287—99.)



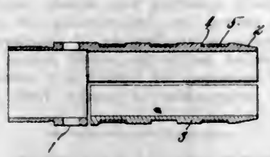
A collapsible pole of the type having a plurality of parts abutting in end to end relation when the pole is extended and disposed in substantial parallelism when the pole is collapsed and provided with T-shaped members comprising elongated flat shanks fitted upon and fixed to opposite sides of said parts at the adjacent ends thereof and head portions at the outer ends of said shank extending transversely thereof for the full width of the shanks and having lateral extensions projecting beyond the opposite sides of the shanks and of the parts of the pole, certain of said lateral extensions overlapping in all positions of the parts, means for pivotally connecting said overlapping extensions in such manner that the head portions overlap for their entire extent when the pole is extended, and a releasable locking means for holding the parts of the pole extended.

1,679,514. FOLDING FURNITURE. NEWTON N. BROWN, Racine, Wis., assignor to Gold Medal Camp Furniture Manufacturing Company, Racine, Wis., a Corporation of Wisconsin. Filed July 28, 1924. Serial No. 728,545. 8 Claims. (Cl. 4—177.)



1. The combination with a table having legs and side rails, the latter having sockets formed therein, of a collapsible basin, supporting members secured to the sides of said basin and loosely engaging said sockets at their opposite ends, and means for fastening the ends of said basin to said rails.

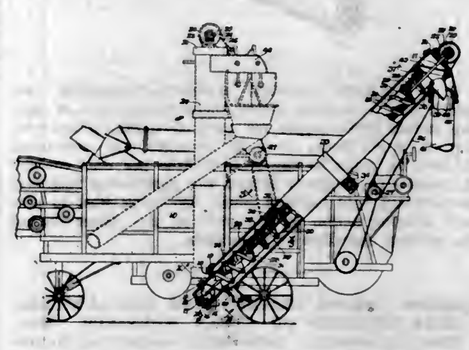
1,679,515. STOCK PUSHER. FRANK L. CONE, Windsor, Vt. Filed July 14, 1923. Serial No. 651,527. 4 Claims. (Cl. 29—62.)



2. A stock pusher comprising a sleeve cut away at one end to form a segmental stock-clamping jaw, a segmental jaw fitting said cut away portion, and one or more spring rings embracing said jaws, said jaws having peripheral grooves to receive said spring rings, whereby said rings act both to hold said jaws assembled and to press them against stock passing through said sleeve.

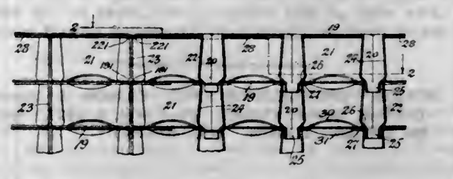
1,679,516. COMBINED GRAIN CLEANER AND ELEVATOR. DANIEL W. DETWILER, Rosebud, Alberta, Canada, assignor to Western Steel Products Limited, Winnipeg, Canada, a Corporation. Filed July 23, 1925. Serial No. 45,508. 6 Claims. (Cl. 209—247.)

3. In an apparatus of the class described, a combination with a boot having an aperture therein through which the grain is received and having a main cylindrical portion in the bottom of which is a bearing, of a cylindrical casing secured at its lower end to the upper end of the cylindrical portion of the boot, a cap for the top of the casing, a screw conveyor shaft journaled in the bearing in the bottom of the boot and in the cap, means for rotating the shaft, a conveyor



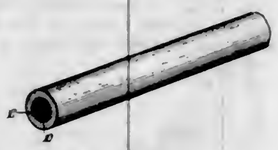
helix secured to the shaft and having its lower end cooperating with the boot, a cylindrical screen surrounding and secured to the helix above the boot, a plate extending transversely of the casing toward the upper end thereof and through which plate the upper end of the conveyor helix extends, and a spout connected with an opening in the side of the casing above the plate.

1,679,517. CORE FOR RADIATORS. JOHN M. FEDDERS, Buffalo, N. Y., assignor to Fedders Manufacturing Company, Inc., a Corporation of New York. Filed Sept. 23, 1925. Serial No. 58,074. 1 Claim. (Cl. 257—130.)



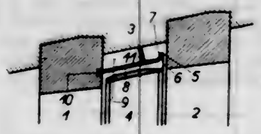
A radiator core having a plurality of water tubes and a plurality of air passages intercalated with said water tubes, said core comprising a plurality of units arranged adjacent to each other and each unit being constructed of a sheet of metal which is bent to form a plurality of pleats and a plurality of webs, the walls of each pleat being spaced apart but connected with each other at one pair of corresponding longitudinal outer edges while their transverse edges at the ends thereof abut against one another to form a tube section, and each of said webs connecting the opposite longitudinal inner edge of one wall of a tube section with the corresponding longitudinal inner edge of the wall of an adjacent tube section, the outer ends of the tube sections of one unit engaging the inner ends of the tube sections of an adjacent unit and provided with a plurality of nipples which open in the tube sections of the adjacent unit to form said water tubes, and the webs of adjacent units being spaced apart to form said air passages.

1,679,518. COMPOSITE-METAL PRODUCT. FRANK F. FOWLE, Chicago, Ill. Filed Aug. 28, 1924. Serial No. 734,554. 2 Claims. (Cl. 173—13.)



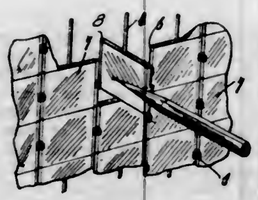
1. A composite electrical conductor comprising two metals and a bonding metal therebetween, one of said two metals being copper for good electrical conductivity and the other being steel for strength and containing at least as much as thirty-hundredths per cent content of chemically combined carbon for minimizing magnetic permeability, said bonding metal also being steel to prevent alloying action of hot steel on the copper during the pouring operation of the metals.

1,679,519. MEANS FOR DRAINING THE LOW-PRESSURE BLADING OF STEAM TURBINES. KARL FREY, Ennetbaden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Filed Jan. 19, 1928, Serial No. 247,968, and in Switzerland Jan. 11, 1927. 5 Claims. (Cl. 253—76.)



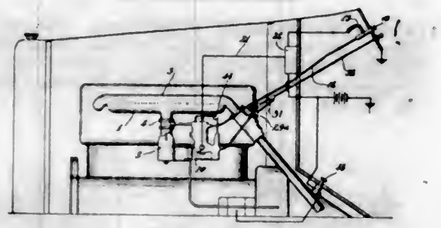
1. Means for draining the low-pressure blading of steam turbines, comprising a casing, an annular partition member arranged outside the moving blades and secured at one edge to the side wall of a guide blade by a tight joint, an outwardly turned flange or lip on the other edge of said partition, said flange or lip being spaced from an adjacent guiding portion of said casing.

1,679,520. CHANGEABLE SIGN. CHARLES A. GIROUX, Montreal, Quebec, Canada. Filed Sept. 6, 1927. Serial No. 217,733. 1 Claim. (Cl. 40—28.)



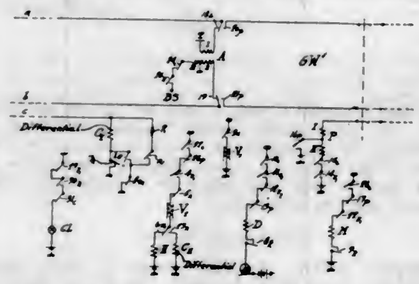
A changeable exhibitor comprising a marginal frame, a plurality of parallel rods fixed in the frame, a plurality of movable panels pivoted on the rods having their opposed faces formed in contrasting shades to form the outlines of figures and letters by selective adjustment of the panels, and angular resilient clips fixed to the side edges of the panels adapted to resiliently engage and lock the panels in coextensive exhibiting positions.

1,679,521. ENGINE-HEATING APPARATUS. JOHN GOOD, Garden City, N. Y., assignor to Good Inventions Co., New York, N. Y., a Corporation of New York. Filed May 21, 1923. Serial No. 640,619. 24 Claims. (Cl. 123—122.)



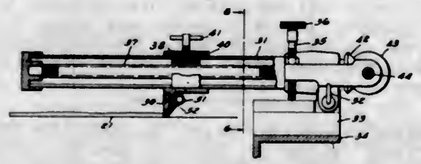
1. The combination of an internal combustion engine having a cranking means, a liquid fuel burner organized to supply heat to the engine and means transmitting pressure created in the engine cylinder by said cranking means to said burner.

1,679,522. AUTOMATIC TELEPHONE SYSTEM. GEORG GRABE, Nikolassee, near Berlin, Germany, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Oct. 8, 1921, Serial No. 506,424, and in Germany Oct. 11, 1920. 17 Claims. (Cl. 179—18.)



1. In a telephone system, a switch, wipers for said switch, means for transmitting a set of impulses to said switch for directly operating said wipers, means for automatically operating said wipers, means controllable from a calling line for releasing the switch, and means responsive to another set of impulses transmitted to said switch before the second named means has completed its operation for locking said switch in operated position independent of control from the calling line.

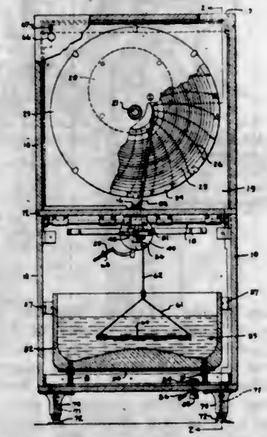
1,679,523. PAPER-MAKING MACHINERY. RALPH E. HEISEL, Chillicothe, Ohio, assignor, by mesne assignments, to Paper Machinery Corporation, Dayton, Ohio, a Corporation of Ohio. Filed May 25, 1925. Serial No. 32,688. 29 Claims. (Cl. 92—44.)



1. In the making of paper in paper-making apparatus having a forming wire and means for flowing pulp upon said wire, the method of confining the pulp to a predetermined area upon the wire by controlling the lateral spread thereof, which method consists in impinging a fluid on said wire at the edge of said area.

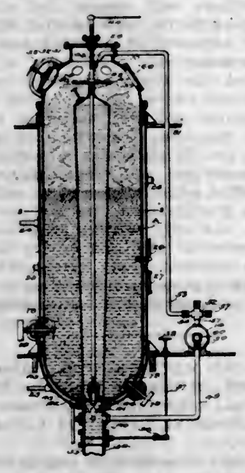
4. In paper making apparatus, a wire, means for flowing pulp upon said wire, and deckle means associated with the wire for limiting lateral spread of the pulp upon the wire, said deckle means comprising a stationary deckle member spaced from said wire.

1,679,524. MEASURING INSTRUMENT. CARL GORHAM HERSHEY, El Paso, Tex., assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Original application filed Mar. 4, 1924, Serial No. 696,823. Divided and this application filed Apr. 4, 1925. Serial No. 20,626. 12 Claims. (Cl. 171—95.)



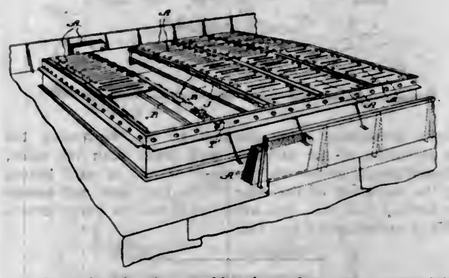
1. In a measuring instrument, the combination of a stationary electrode and a movable electrode, means for conducting to said electrodes opposite charges of electricity respectively, and means separating said electrodes comprising a solid and a liquid insulating material.

1,679,525. MEANS FOR TREATING HOLLY AND LIKE PLANTS AND PRODUCTS DERIVED THEREFROM. STEPHEN M. HOYE, Brooklyn, N. Y. Filed Dec. 15, 1922. Serial No. 607,153. 2 Claims. (Cl. 99—2.)



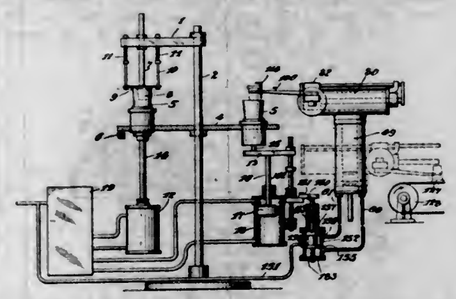
1. In an apparatus of the class described, a vessel adapted to receive the material to be treated, and having a discharge outlet at the bottom, a tubular strainer axially disposed in said vessel, a rod axially positioned in said strainer, and means to tighten the rod for holding the strainer in position.

1,679,526. HATCH COVER. JOSEPH WILLIAM ISHERWOOD and WILLIAM ISHERWOOD, Raggles Wood, Chislehurst, England. Filed June 15, 1925, Serial No. 37,247, and in Great Britain May 4, 1925. 13 Claims. (Cl. 114—201.)



1. In a hatch, the combination of a cover comprising small sections, and wedging means including a sliding bar for simultaneously locking a plurality of sections together.

1,679,527. VESSEL-HANDLING DEVICE. MAX JAEGER, Long Island City, N. Y., assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y., a Corporation of New York. Filed Oct. 18, 1924. Serial No. 744,307. 43 Claims. (Cl. 49—14.)



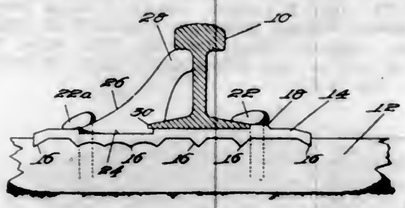
1. In a vessel handling device, the combination of a support for a vessel, a conveyor adjacent said support but at a substantially different level, means for engaging a vessel on said support, mechanism for raising said vessel and delivering it to said conveyor in inverted position, devices for moving said mechanism in a vertical direction during the raising and moving operation, and means for disengaging said engaging means when said vessel reaches said conveyor.

40. In a vessel handling device, the combination of a support for a vessel, a second support adjacent said first support but at a substantially different level, means for gripping a vessel on said first support, mechanism for raising said vessel and delivering it to said second support in inverted position, devices for lowering said mechanism to compensate for the difference in level of said supports, and means for opening said gripping means when said vessel reaches said second support.

1,679,528. RAIL BRACE WITH TIE-PLATE. EMIL JOHANSON, Chicago, Ill. Filed June 10, 1926. Serial No. 115,126. 1 Claim. (Cl. 238—292.)

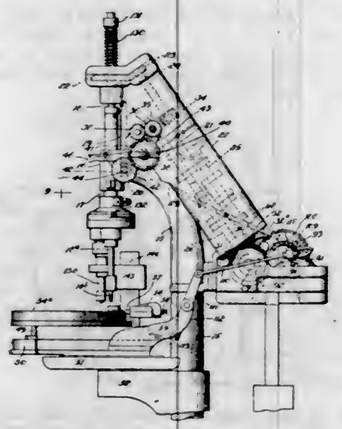
A rail brace, comprising in combination, a pair of brace elements, and a tie plate, each of said brace elements adapted to be positioned alongside the rail and

contacting with the web thereof, said tie plate being provided with a depression for the reception of the rail base, one of said elements including an integrally horizontally extending base of a width greater than one-half the width of the base of the rail, said base adapted to be positioned in a depression in the tie plate, said last-



named depression being parallel to the depression for the reception of the rail base and lower than the same, a longitudinal groove in the base of one of said braces for the reception of the edge of the rail base, and means for locking the rail, the brace and the tie plate into a unitary structure on the tie.

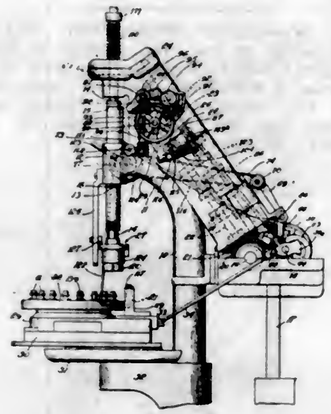
1,679,529. AUTOMATIC MACHINE TOOL. ALBERT M. JOHNSON, Rockford, Ill., assignor to Barnes Drill Co., Rockford, Ill., a Corporation of Illinois. Filed Mar. 8, 1923. Serial No. 623,631. 38 Claims. (Cl. 10—136.)



13. The combination of a longitudinally movable spindle, feed mechanism for the spindle including a cross shaft having a gearing connection therewith, a constantly rotating driving element, means arranged to be driven by said driving element for controlling the movements of said spindle and including a second element operatively associated with the spindle, and means for connecting and disconnecting said second element to and from the first element including a reciprocatory member, a nut on said cross shaft connected with said member, and a pair of stops adjustably mounted on said shaft for engagement by said nut as the shaft rotates in opposite directions.

22. The combination in a machine tool, of a reciprocable spindle, a drive shaft, means for rotating the spindle alternately in opposite directions and at different speeds from said drive shaft including a clutch, a constantly rotating member, means for actuating said clutch including an element having a pair of cams thereon operable respectively to effect the rotation of the spindle in one direction or the other, and means controlled by the movements of the spindle for positively connecting said element with said driven member for intermittent rotation thereby whereby to actuate said cams successively.

1,679,530. AUTOMATIC DRILLING OR TAPPING MACHINE. ALBERT M. JOHNSON, Rockford, Ill., assignor to Barnes Drill Co., Rockford, Ill., a Corporation of Illinois. Filed Mar. 8, 1923. Serial No. 623,632. 45 Claims. (Cl. 10—105.)



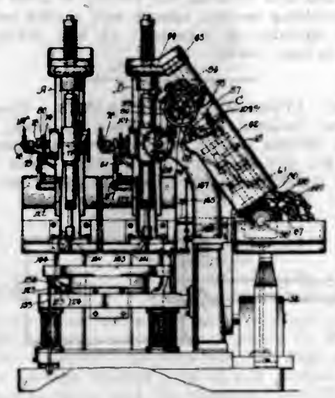
6. A machine of the character described comprising, in combination, a spindle, feed mechanism for the spindle including a rotary element in driving relation thereto, power driven means for effecting the rotation of said element including a constantly rotating driver, a cam member arranged for positive connection with the driver, means actuated by said cam member to rotate said feed element, and a device operable to effect such connection of the driven member with the driver and adapted to automatically interrupt such connection upon the completion of a predetermined range of movement of the driven member by the driver, said device being operatively associated with the spindle so as to be actuated thereby as the spindle approaches a predetermined point in its travel.

32. The combination of a spindle mounted for longitudinal movement, means including a cam operatively connected with the spindle to move it, a constantly driven element, means including a driving dog for effecting a connection between said element and said cam, and means controlled by the movements of the spindle for effecting the movement of said dog into and out of operative association with said element.

42. In a machine tool, the combination of a part mounted for reciprocation, feed mechanism for said part, means for driving said feed mechanism and having a disengageable connection therewith, spring means normally holding the driving means in inoperative relation to the feed mechanism, and means under the control of said part to effect a connection between said feed mechanism and its driving means, the last-mentioned means comprising a constantly rotating drive element, a cam operatively associated with said driving means to move it against the operation of said spring means, and means operating upon a predetermined movement of said part to disconnect said cam from its drive element.

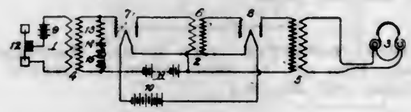
1,679,531. GANG MACHINE TOOL. ALBERT M. JOHNSON, Rockford, Ill., assignor to Barnes Drill Company, Rockford, Ill., a Corporation of Illinois. Filed Dec. 12, 1925. Serial No. 74,971. 18 Claims. (Cl. 10—128.)

1. A gang tool comprising, in combination, a rotary work support having a plurality of stations arranged in equidistantly spaced relation in the arc of a circle, a plurality of units having spindles also arranged in equidistantly spaced relation corresponding to the relation of said stations on the work support, each of said units having a feed mechanism and a control mechanism including a control element for the feed mechanism, an indexing mechanism for said work support including a locking means, and means operatively connecting the several control elements to said locking means and adapted in the operation of locking means and adapted in the operation of locking the table to control the feed mechanisms of the several units.



10. A gang tool comprising a plurality of units each having a spindle with feed and control mechanisms therefor, and a common drive means for the several controlling mechanisms, each of said control mechanisms including a constantly operating drive member, an intermittently driven member, and means controlled by the spindle for effecting a connection between said members, said means automatically operating after a predetermined rotation of the driven member to interrupt its connection with the driving member, said driven member having a cam operatively associated therewith for controlling the operation of the feed mechanism.

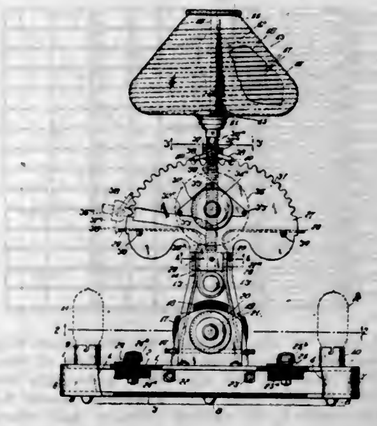
1,679,532. APPARATUS FOR AIDING HEARING. FREDERICK WILLIAM KRANZ, Geneva, Ill. Filed Oct. 10, 1921. Serial No. 506,640. 15 Claims. (Cl. 179—107.)



1. In a method for aiding hearing, comprising accentuating the frequencies to which the person hard of hearing is less sensitive.

1,679,533. RADIO RECEIVING APPARATUS. ALEXANDER B. KUPSCHE, Chicago, Ill. Filed Aug. 15, 1924. Serial No. 732,152. 1 Claim. (Cl. 250—33.)

An apparatus of the kind described embodying therein a base, a plurality of legs rising from said base, a block to which the top ends of said legs are fixed, two spaced plates fixed to and rising from opposite sides of the said block, a flexible standard rising from said block and adapted to be flexed in the plane of said plates into different angular positions, latches carried by said standard

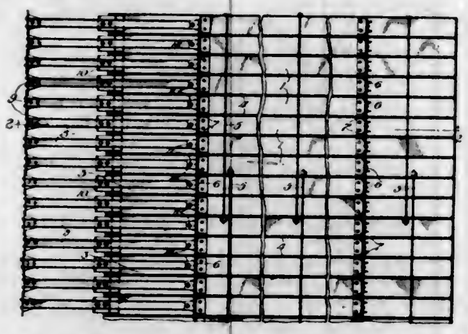


to engage fixed parts of the plate to lock it in different angular positions and a loop aerial carried by said standard above the latches.

1,679,534. CORRECTIVE DEVICE FOR SECONDARY CLOCK MECHANISM. ALBERT E. LONG, Chicago, Ill., assignor to Stromberg Electric Company, Chicago, Ill., a Corporation of Maine. Filed Aug. 29, 1925. Serial No. 53,282. 5 Claims. (Cl. 58—25.)

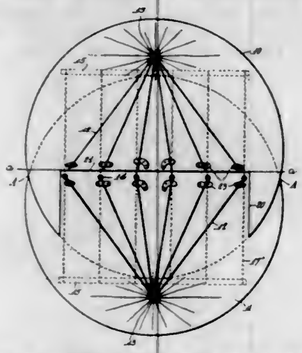
1. The combination with a secondary electromagnetic impulse mechanism of a master clock for controlling said impulse mechanism having a periodic low frequency switch for normally controlling the impulses and a periodic high frequency switch for occasionally controlling the impulses, electromagnetic impulse mechanism for winding the master clock, controlled by the same impulses as said secondary mechanism, and means controlled by the winding magnet for causing disconnection of the low frequency switch and connection of the high frequency switch upon failure of the winding magnet to respond to the low frequency impulses.

1,679,535. MEANS FOR CONSTRUCTING CONCRETE SURFACES. HENRY G. LYKKEN, Minneapolis, Minn. Filed Mar. 5, 1923. Serial No. 622,718. 8 Claims. (Cl. 94—45.)



1. A structure of the character described comprising a composite surface former having a plurality of elongated narrow elements, flat upon their under side and having their forward ends bent upwardly, means for holding the elements in contact laterally and means pivotally adjustable upon the upwardly bent portions for spreading plastice material in front of the elongated members.

1,679,536. EDUCATIONAL APPLIANCE. HERMANN J. MULLER, Austin, Tex. Filed Sept. 1, 1927. Serial No. 216,818. 13 Claims. (Cl. 35—16.)



1. A device for illustrating mechanically the processes of cell division, comprising a pair of cell members each having chromosome elements movably associated therewith and connecting means between the cell elements, operatively connected to the chromosome element to cause the latter to move relative to each other when the cell members are moved toward or away from each other.

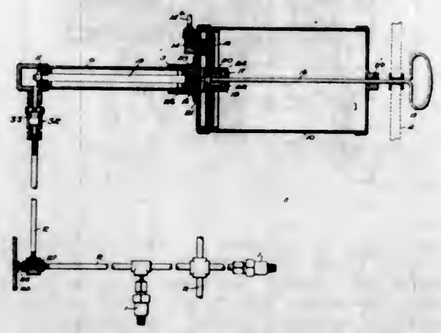
1,679,537. LUBRICATING APPARATUS. HOWARD J. MURPHY, Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 14, 1922. Serial No. 543,653. 1 Claim. (284—18.)

Lubricant apparatus including a lubricant supply means presenting a nozzle having a part adapted to receive the end of a lubricant receiving member, sealing means carried by said nozzle, an annulus contained in said receiving part of the nozzle and having an aperture therein through which the end of said lubricant receiving member may pass, means projecting from the inner face of said annulus for engaging with projections on said lubricant receiving member, said annulus connected to said nozzle by inclined means whereby, when said nozzle is turned to engage the projections on said lubricant receiving member with the annulus, the annulus being held from rotation relative to the lubricant receiving member rides up such inclined means of the



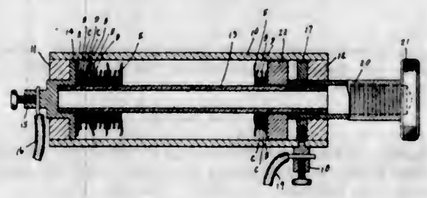
nozzle to advance the nozzle relative to the receiving member and said annulus, and thereby to press the end of the receiving member against said sealing part, and a valve openable by movement of said sealing part relative to said nozzle.

1,679,538. LUBRICATING APPARATUS. HOWARD J. MURPHY, Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Jan. 9, 1926. Serial No. 80,248. 8 Claims. (Cl. 184—7.)



1. A central lubricating system including a plurality of lubricant cups for supplying lubricant to parts to be lubricated, a lubricant pump for forcing lubricant to said cups, a pipe system for conveying the lubricant from said pump to said cups, and a conduit connecting the pipe system with a source of lubricant supply, said pump comprising a lubricant cylinder, a combined inlet and outlet passage connecting said cylinder with the pipe system to permit passage of lubricant into and out of said cylinder, a piston reciprocable in said cylinder to draw lubricant into said cylinder from the source of supply and to force the lubricant from said cylinder through said pipe system to said cups and other piston means operable in a second cylinder to reciprocate said first mentioned piston.

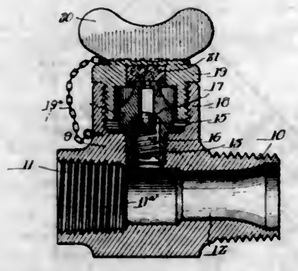
1,679,539. RHEOSTAT. LEON P. NEAL, Indianapolis, Ind. Filed Oct. 18, 1926. Serial No. 142,512. 8 Claims. (Cl. 201—51.)



1. A rheostat comprising a plurality of contact members varying in diameter supported adjacent each other whereby an electric current may be passed between each

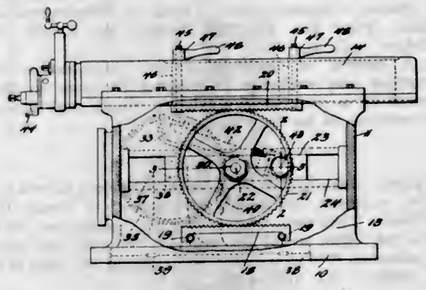
of said contacting discs, and means for applying pressure thereto for causing some of said members to be short circuited by others for varying the number of electrical contacts in said rheostat.

1,679,540. PNEUMATIC TOOL. JOSEPH E. OTIS, Jr., Winnetka, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed June 21, 1926. Serial No. 117,579. 10 Claims. (Cl. 184—105.)



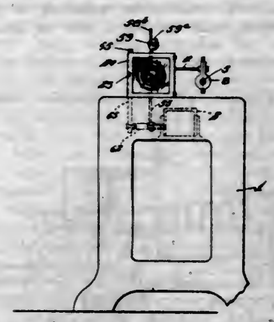
1. The combination with a pneumatic tool and a conduit for supplying air thereto, of means for introducing lubricant under high pressure into said tool, comprising a body member inserted between said conduit and said tool and having a bore therethrough for conducting air from said conduit to said tool, said body member having an annular flange at one side thereof forming a recess and an opening between said recess and said bore, a high pressure lubricant receiving device having its inner end secured in said opening and its outer end housed in said recess, said device comprising an inwardly opening check valve, and a cap for said recess, said cap carrying a gasket for sealing the lubricant receiving opening in said device.

1,679,541. SHAPER. FRANK WESLEY PARKER, Boise, Idaho. Filed Apr. 7, 1927. Serial No. 181,791. 6 Claims. (Cl. 74—14.)



1. In a machine of the type described, in combination, a frame comprising a base, a vertical standard and ways, a reciprocable part guided in said ways, a slot in said standard parallel to said ways, a cross-head guided in said slot for reciprocation parallel to said part, a rack on the lower side of said part, a rack near the bottom of said frame, a rocker wheel coacting with said racks, said wheel being pivoted to said cross-head on one side of said standard, a revolvable shaft on the opposite side of said standard, a pin eccentrically driven by said shaft and facing said standard and a connecting rod joining said pin and cross-head for the purpose described.

1,679,542. AUTOMATIC REGISTER. GIACOMO PUCCI, Westerly, R. I. Filed Apr. 11, 1923. Serial No. 631,436. 10 Claims. (Cl. 118—5.)



1. In fly-frames, the combination of a revolvable register to measure the length of the material acted upon, means to actuate the same in roller contact with said material, a stop motion mechanism for the machine, means adjustably set at predetermined points on said register to actuate the stop motion mechanism at predetermined material length settings, and means attached to said stop motion mechanism for locking the builder rod at the desired setting thereof to prevent readjustment thereof during the filling of the bobbins.

1,679,543. PRESERVED-FOOD PRODUCT AND PROCESS. THOMAS M. RECTOR, New York, N. Y., assignor to Rector-Tenney Company Inc., New York, N. Y. Filed Oct. 10, 1922. Serial No. 593,638. 6 Claims. (Cl. 99—8.)



3. A container having therein perishable materials, and an uncoated surface of iron in suitable quantity exposed to the atmosphere within the container, substantially as and for the purpose set forth.

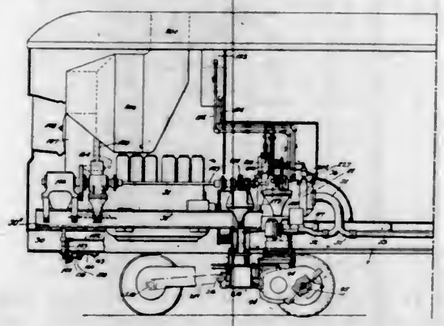
6. The method of preventing corrosion of the inner surface of sealed containers formed of tin plate which consists in providing an exposed surface of iron within the container of suitable extent for the purpose set forth.

1,679,544. POWER PLANT, ESPECIALLY FOR SELF-PROPELLED VEHICLES. JOHN ROBSON, Waterbury, Conn., assignor to Universal Engineering Corporation, Montreal, Quebec, Canada, a Corporation of Canada. Filed Nov. 12, 1923. Serial No. 674,246. 6 Claims. (Cl. 60—53.)

4. In a self-propelled vehicle, wheeled trucks, a fluid-operated motor on one of said trucks, to drive the same, a main frame supported on said trucks movably, a power-operated pump supported on said main frame, conduits for conveying the fluid from the pump to the motor, and back from motor to the pump, said conduits including movable joints, a reservoir for collecting leakage escaping at such joints, a flexible casing enclosing said joints and reservoir, and a pump for withdrawing fluid from said reservoir and restoring such fluid to the main circulation path.

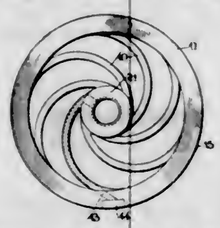
6. In a power plant, a pump of the variable output type, a motor adapted to be operated by the fluid propelled by said pump, connections for conveying fluid from the pump to the motor, and back from the motor to the pump, a handwheel or equivalent device having

movement in two directions adapted to be operated by the engineer, mechanism, actuated through the medium of said handwheel, for effecting a change in the output of the pump, said mechanism including a connecting rod and a casing, each having a pair of spaced abut-



ments, and a single spring, mounted on said rod between said abutments, which, upon the release of the handwheel, will bring the latter after movement in either direction automatically to a position adjusting the pump to a condition in which its output is nil.

1,679,545. TUBE MILL. CHARLES H. ROTH, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 23, 1925. Serial No. 32,435. 5 Claims. (Cl. 18—13.)



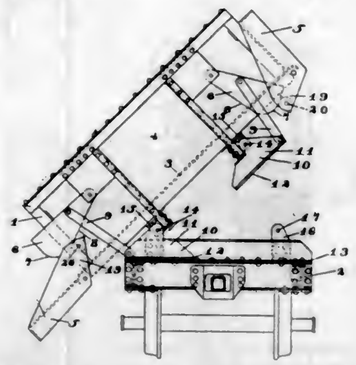
5. A tube machine comprising a die, means for forcing plastic material through said die, an apertured mandrel, and means for holding said mandrel within said die, said mandrel holding means comprising a spider having a hub portion constituting a support for the mandrel and a web portion extending circuitously from said hub portion to a position radially remote therefrom, said web portion being formed with a circuitous conduit extending from said position to said hub portion and communicating with the aperture in said mandrel.

1,679,546. GOLF GAME. ELMER SAS, New York, N. Y. Filed Dec. 19, 1923. Serial No. 681,516. 59 Claims. (Cl. 265—22.)



1. In a golf game device, a golf ball arranged to be hit by means of a club in a plurality of directions, a second golf ball, and means for moving said second golf ball in response to and in accordance with the strength of the blow delivered to the first mentioned golf ball in any direction and retaining it in its advanced position.

1,679,547. DUMP CAR. ALFRED C. SCHMOHL, Beaver Falls, and WILLIAM L. BURNER, Koppel, Pa., assignors to Koppel Industral Car and Equipment Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 29, 1926. Serial No. 119,282. 14 Claims. (Cl. 105—276.)



1. In a dump car, an underframe, a body tiltably mounted on said underframe, a door for said body adapted to move downwardly and outwardly to its discharging position when said body is tilted, means for controlling the opening movement of said door when said body is being tilted and for causing said door to be moved to its closed position as the car is being righted, said means comprising a member pivotally connected with said body adapted to loosely engage said underframe, a member pivotally connected with said body adapted to cooperate with said door, and a connection between said members for maintaining the second mentioned member in its operative position.

1,679,548. ART OF VULCANIZING RUBBER. LORIN B. SEBRELL, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 12, 1926. Serial No. 87,950. 9 Claims. (Cl. 18—53.)

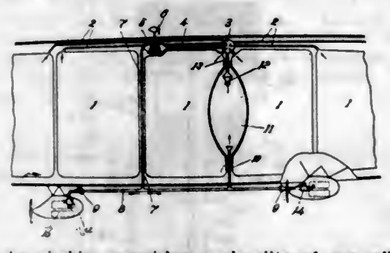
1. A method of accelerating the vulcanization of caoutchouc that comprises vulcanizing the same in the presence of a mercapto-aryl-thiazole whose aryl structure contains an amido group.

1,679,549. ASH GATE. LESLIE E. STRIEGEL, Cleveland, Ohio, assignor, by mesne assignments, to Frank H. Dunbar, Cleveland, Ohio. Original application filed May 15, 1923, Serial No. 639,118. Divided and this application filed Nov. 15, 1923. Serial No. 674,793. 2 Claims. (Cl. 110—171.)



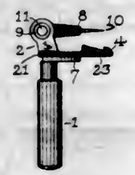
1. The combination with a hopper provided with a bottom discharge opening, of a frame surrounding said opening and provided with outturned flanges, a door having suspending means to reciprocate on said flanges, said door having troughs along its sides and one end, and means for applying fluid under pressure to remove material from said troughs.

1,679,550. GAS-SUPPORTED AIRSHIP. KARL SILLER, Friedrichshafen, Germany, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Filed June 26, 1926, Serial No. 118,648, and in Germany July 6, 1925. 11 Claims. (Cl. 244—3.)



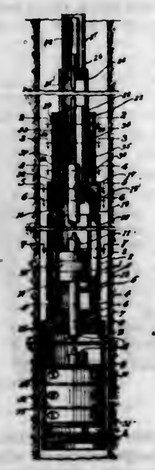
1. An airship comprising a plurality of gas cells; a gas pump; a tube connecting one of said cells with said pump; a motor; a tube connecting said pump with said motor; a gas bag; and a third tube connecting said second tube with said gas bag.

1,679,551. UNIVERSAL SAFETY RAZOR. ERIK G. TORNKVIST, New York, N. Y. Filed May 11, 1926. Serial No. 108,309. 10 Claims. (Cl. 30—12.)



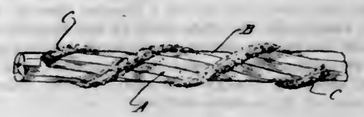
1. A razor comprising a frame, a hingedly disposed blade grip in the same, a blade in said grip, a handle adapted to be attached to said frame and a second attachment seat for said handle upon said grip.

1,679,552. PUMP FOR OIL WELLS. DAVID R. TRIPPLEHORN, Fort Worth, Tex. Filed July 25, 1927. Serial No. 208,233. 2 Claims. (Cl. 103—156.)



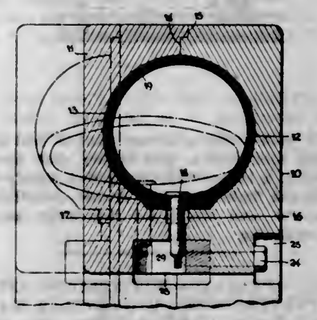
1. A double acting pump comprising outer and inner barrels forming an annular chamber therebetween, a piston working in the inner barrel, an upper ring in threaded engagement with the upper ends of said inner and outer barrels, a lower ring in threaded engagement with the lower end of said outer barrel, an intermediate ring in threaded engagement with said outer barrel and the lower end of said inner barrel, said upper ring and intermediate ring forming closures for said annular chamber, an outlet pipe having communication with said outer barrel, said upper ring having valve-controlled openings providing communication between said annular chamber and said outlet pipe and between said inner barrel and said outlet pipe, said upper ring also having a valve-controlled inlet port effecting communication between said inner barrel and the exterior of said outer barrel, said intermediate ring having a valve-controlled opening providing communication between said inner barrel and said annular chamber, said lower ring having a valve-controlled inlet port effecting communication between said inner barrel and the exterior of said outer barrel, said piston having a piston stem passing through said upper ring and projecting into said outlet pipe, said piston stem having a portion thereof of larger diameter to act as a pump piston to assist the upward movement of the water in said outlet pipe.

1,679,553. RUG AND STRAND THEREFOR. PHILIP C. WAITE, Oshkosh, Wis., assignor to Waite Carpet Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Mar. 23, 1927. Serial No. 177,519. 6 Claims. (Cl. 28—1.)



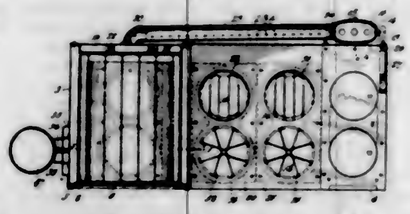
1. A rug strand having a core of relatively bulky hard-surfaced fiber-like material, and a relatively lighter open spiral winding of fluffy wool-like material outstanding from and bearing upon the hard-surfaced fiber-like core, the turns of the winding being spaced apart to clearly disclose the hard-surfaced core, substantially as described.

1,679,554. MOLD. LEON S. WASHBURN, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 4, 1925. Serial No. 73,229. 4 Claims. (Cl. 18—35.)



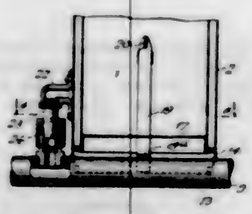
1. A mold adapted to receive an inflatable container comprising complemental sections provided with recessed portions adapted to provide a passage for a conduit leading from the container to the exterior of the mold, and means adjacent the recessed portions adapted to surround and protect the conduit and to position the complemental sections in predetermined relation.

1,679,555. RANGE. LEWIS T. WILCOX, Peekskill, N. Y., assignor to Wilcox Patents Corporation, Peekskill, N. Y., a Corporation of New York. Filed Jan. 19, 1926. Serial No. 82,193. 3 Claims. (Cl. 126—36.)



1. A combined fluid and solid fuel stove comprising a base, an upright structure mounted on said base at one end and having an oven in its upper part and a fluid fuel burner beneath the oven part, a solid fuel burner unit mounted upon said base at the other end, a burner top connecting said unit and upright structure, a fluid fuel burner disposed below said top to supply heat therethrough, means for supplying fuel to said fluid fuel burners, said unit having a smoke conduit extending upwardly from its rear wall and having a damper therein, and a conduit connecting the oven part of the upright structure with the smoke conduit, said second conduit having apertures arranged along the length thereof, the total area of which is substantially equal to the cross sectional area of the second conduit.

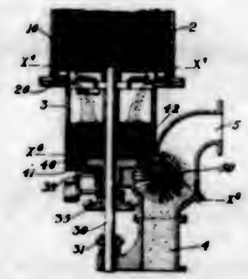
1,679,556. STOVE. LEWIS T. WILCOX, Peekskill, N. Y. Filed Oct. 1, 1927. Serial No. 223,285. 17 Claims. (Cl. 126—45.)



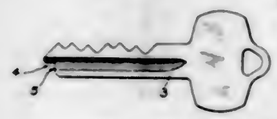
1. In a cook stove, a burner shell, a fuel supply pipe detachably connected to said burner shell for delivering fuel thereto, a burner supporting ring rigidly secured to said pipe and underlying said burner constituting a support therefor, and means for detachably securing said shell to said ring.

1,679,557. APPARATUS FOR FEEDING AND METERING PULVERULENT OR GRANULAR MATERIALS. ERVIN G. BAILEY, Cleveland Heights, Ohio, assignor, by mesne assignments, to Fuller Lehigh Company, a Corporation of Delaware. Filed Aug. 31, 1921. Serial No. 497,442. Renewed May 13, 1927. 9 Claims. (Cl. 83—44.)

1. An apparatus for feeding finely divided material comprising a primary feeder capable of continuously delivering the material from a source of supply at varying rates; an accumulator adapted to receive material from said primary feeder; means for discharging material from the accumulator; and a controller responsive to the material in the accumulator adapted to regulate the rate of delivery of the primary feeder to maintain the volume and density of the material in the accumulator approximately constant.

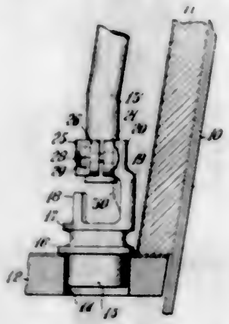


1,679,558. KEY. FRANK ELLISON BEST, Seattle, Wash., assignor to Frank E. Best, Inc., Seattle, Wash., a Corporation of Washington. Filed May 23, 1923. Serial No. 640,946. Renewed Jan. 9, 1928. 1 Claim. (Cl. 70—9.)



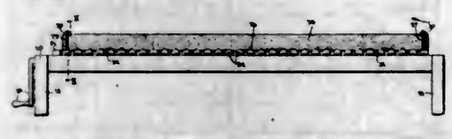
The combination with a pin tumbler lock having a separable key stop at its inner end, of a key having its rear edge notched at the forward end forming a shoulder arranged to engage with said stop for positioning said key in said lock.

1,679,559. DRAIN-PIPE GUIDE. CHARLES H. BILTY, Milwaukee, and ALBERT E. TELLEFSEN, West Allis, Wis. Filed May 13, 1927. Serial No. 191,107. 10 Claims. (Cl. 137—111.)



2. A device of the character described, comprising a conduit portion, the perimeter at one side being provided with an upstanding arm terminating at top in a pipe engaging portion, one side of said portion being bifurcated while the other side has an opening, and a pipe clamping member, one end whereof has oppositely disposed portions adapted to interlock with the bifurcations of the arm, while the other end has an opening adapted to register with the opening in the arm and to receive a fastening bolt.

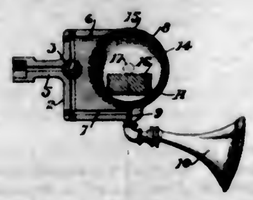
1,679,560. METHOD OF AND APPARATUS FOR TREATING SOLID-TIRE MATERIAL. RICHARD S. BURDETTE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 17, 1927. Serial No. 220,262. 14 Claims. (Cl. 18—2.)



8. An apparatus for manipulating solid tire stock comprising a supporting frame having a screw-threaded shaft rotatably mounted thereon, a helical spring encircling the shaft and secured at one end to the frame, a plurality of slidably mounted blocks having grooves therein adapted to engage the convolutions of the spring, a block having screw-threaded connection with the shaft and bearing against the free end of the spring and means for rotating the shaft to vary the tension of the spring.

14. The method of varying the length of freshly extruded solid tire treads that comprises securing the tread on a plurality of relatively movable supports and causing simultaneous movement of the supports to produce equal increments of strain to the sections between adjacent supports.

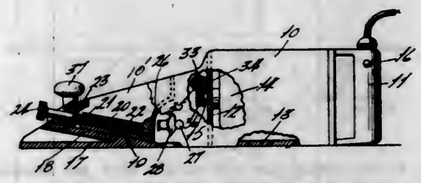
1,679,561. PLUMBING FIXTURE. FRANK J. CANTRELL, San Francisco, Calif. Filed Apr. 26, 1924. Serial No. 709,310. 3 Claims. (Cl. 299—84.)



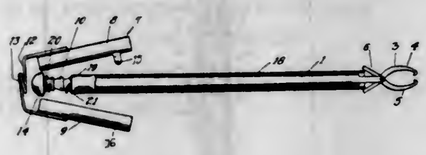
1. In a fixture of the character described, having a cylindrical chamber formed therein, a head member forming a permanent closure for one end of the cylindrical chamber, a removable head member forming a closure for the opposite end of said cylindrical chamber, a cylindrical shaped soap receptacle, insertible in said cylindrical chamber, a head member on one end of the soap receptacle, a pin thereon extending into the fixed head of the cylindrical chamber and forming a journal or support therefor, an annular flange on the opposite end of the soap receptacle, and an annular flange on the removable head member forming a support and journal for the soap receptacle flange, impeller members formed on the exterior surface of the soap receptacle and water inlet and outlet connections formed on the casing in communication with the interior casing and the soap receptacle, said inlet connection having an inlet passage communicating with the soap receptacle, said inlet passage being disposed on a tangent with relation to the impeller members so as to rotate the receptacle when water is passing through the casing.

1,679,562. PORTABLE ELECTRIC JOINTER. ALEX A. CLARKE, Chicago, Ill. Filed July 19, 1923. Serial No. 652,527. 6 Claims. (Cl. 144—117.)

1. In a jointer of the class described, the combination with a housing having a base and a transverse opening in advance of the base, of a cutter rotatably mounted in advance of said housing and exposed to the work through said opening, a motor arranged in said housing, driving connections between the motor and said cutter, a guard wall extending transversely of the housing in advance of the cutter, the front end of said housing having an inclined wall provided with a longitudinal slot, a shoe associated with the housing and having an inclined upper face co-acting with the inclined wall of the housing and slidably related thereto, said shoe having an upwardly-extending lug disposed in the longitudinal slot of the inclined wall of the housing, and an adjusting screw sustained at one of its ends by the housing and having its other end mounted in the guard wall, said adjusting screw passing longitudinally through the lug of said shoe for effecting adjustment of the latter relatively to the housing, whereby to vary the depth of cut of the cutter.



1,679,563. HAIR-WAVING APPARATUS. FELIX COUNE, Chicago, Ill. Original application filed Jan. 18, 1924, Serial No. 686,976. Divided and this application filed Aug. 27, 1924, Serial No. 734,538. Renewed Apr. 11, 1927. 20 Claims. (Cl. 132—34.)



1. A hair curler or bobbin comprising a rod, a tubular member provided with a hair receiving portion surrounding said rod, means for permitting longitudinal movement and restraining relative rotation between said rod and said tubular member, said means comprising a spring attached to sad rod and serrations on said tubular member adapted to be engaged by one end of said spring.

1,679,564. GAS CONTAINER FOR AIRSHIPS. WILHELM E. DOERR, New York, N. Y., and ERNST A. LEHMANN, Akron, Ohio, assignors to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Bodensee, Germany. Filed Apr. 23, 1924, Serial No. 708,327, and in Germany May 16, 1923. 3 Claims. (Cl. 244—3.)



1. An airship comprising an outer container inflated with one kind of lifting gas; an inner container inflated with another kind of lifting gas; and means for later-

ally moving said inner container within said outer container and for bringing into contact the wall of said inner container with the wall of said outer container.

1,679,565. DIRIGIBLE AIRSHIP. AUGUST FABER, New York, N. Y. Filed June 24, 1927. Serial No. 201,166. 7 Claims. (Cl. 244—6.)



1. In an airship, the combination of a gas container and a body depending and vertically spaced therefrom, said body consisting of a longitudinally elongated shell, composed of two relatively shallow and wide convex sections having sloping ends, placed edge to edge, forming a body offering a relatively small resistance to the air in a lateral rather than in a vertical sense.

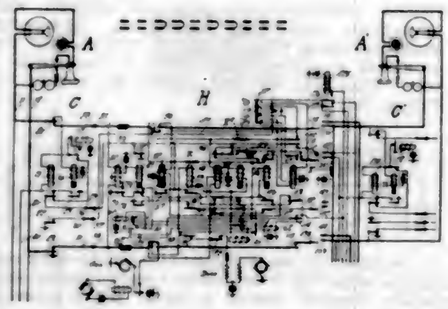
1,679,566. WRITING IMPLEMENT. FRANK FUREDY, Montclair, and CHARLES SCHROTH and WILLIAM FAVINI, Bloomfield, N. J., assignors, by mesne assignments, to Bushwick National Bank. Filed July 28, 1925, Serial No. 46,585. Renewed June 16, 1928. 20 Claims. (Cl. 120—14.)



5. A multi-lead pencil comprising a case, a central guide, a plurality of lead carriers located parallel and close together and close to the longitudinal axis of the pencil and in directive engagement with the guide, said carriers also being arranged for projection of their respective leads selectively at the same end of the case, and a helical impeller mounted for rotation about the guide and in engagement with the carriers.

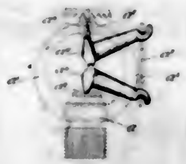
1,679,567. AUTOMATIC TELEPHONE SYSTEM. JOHN E. GARDNER, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 5, 1921. Serial No. 442,743. 10 Claims. (Cl. 179—18.)

1. In a telephone system, a calling subscriber's line, an automatic switch associated therewith, called lines accessible thereto, a calling device under the control of said calling subscriber for operating said switch into engagement with one of said called lines without making the



same busy, and means individual to said automatic switch and responsive to the reoperation of said calling device for preventing another connection being established with the connected line.

1,679,568. STRUT FOR AUTOMATIC SPRINKLERS. WILLIAM GRIMSHAW, Glen Ellyn, Ill. Filed Aug. 25, 1923. Serial No. 659,294. 2 Claims. (Cl. 29—148.)

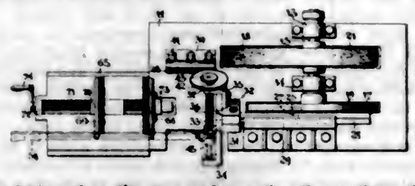


1. The process of making struts for automatic sprinklers, which consist in punching blanks substantially of the shape shown in Figs. 4 and 5 from suitable sheet metal, subjecting the portion 1 of said blank to a swaging operation in the directions indicated by the arrows, Fig. 4, bringing it substantially to the form shown in Figs. 6 and 7, subjecting the entire blank to a swaging operation in the directions indicated by the arrows, Fig. 6, bringing it substantially to the form shown in Figs. 8 and 9, subjecting the entire blank to a swaging operation in the directions indicated by the arrows, Fig. 9, bringing it substantially to the form shown in Figs. 10 and 11, and in then subjecting the entire blank to a swaging operation in the directions indicated by the arrows, Fig. 10, bringing it substantially to its final form shown in Figs. 2 and 3, each swaging operation being substantially at right angles to the last preceding operation whereby fins or ribs formed on the blank in earlier swaging operations will be obliterated by later swaging operations and said struts wrought to final form without a separate finishing operation.

1,679,569. SKIVING MACHINE. JORGEN I. HAASE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 29, 1925. Serial No. 59,278. 7 Claims. (Cl. 164—47.)

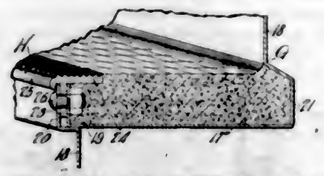
1. A skiving machine comprising a frame having a slide mounted thereon for reciprocatory motion, a bracket supporting a threaded rotatable rod adjustably secured to the slide, a knife supporting member mounted for movement

on the rod, a knife secured to the supporting member, a gear loosely mounted on the rod, a rack mounted on the frame engaging the gear, a ratchet keyed to the rod and a



pawl pivoted on the gear and engaging the ratchet, whereby the rod will be rotated during only part of the motion of the slide.

1,679,570. STAIR STRUCTURE. AKOS J. HALL, Cleveland, Ohio. Filed Dec. 22, 1924, Serial No. 757,366. Renewed Jan. 27, 1928. 6 Claims. (Cl. 189—43.)



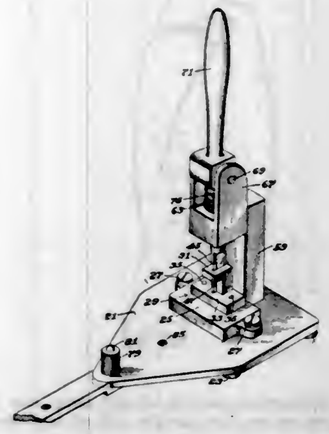
1. In combination, a pair of stringers, one piece step sections between said stringers, each of said sections comprising a riser portion and a tread portion, each of said riser portions having an upwardly extending offset flange at the upper end thereof, each of said tread portions having an upwardly extending flange to confine a floor material, the front end of said tread portions resting on the horizontal portion of the offset flanges of the adjacent riser sections, the upwardly extending flanges of adjacent step sections spaced apart, a removable wear plate resting on the ends of said flanges and having a leg disposed in the space between said flanges, and a bolt passing through said flanges and through said leg and having the nut thereof embedded in the floor material.

1,679,571. COMPRESSOR ROLL. LINDSAY S. HALL, New Bedford, Mass., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 19, 1926. Serial No. 123,362. 9 Claims. (Cl. 28—38.)



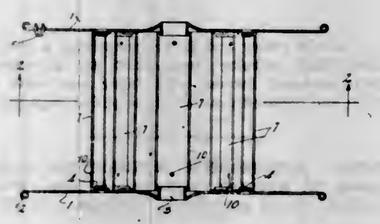
1. A compressor roll for loom beams comprising a cylindrical member provided with end portions of lesser diameter than the body of the cylindrical member.

1,679,572. PUNCH FOR CUTTING NOTCHES IN FILM REELS. ARTHUR C. HAYDEN, Brockton, Mass. Filed June 21, 1927. Serial No. 207,333. 9 Claims. (Cl. 164—91.)



1. A punch for cutting peripheral notches in plates of a film reel, comprising a support, a pair of anvils on the support having slots therein and adapted to have peripheral portions of the plates rest thereon, a bar slidable in said slot having a pair of dies, and means for moving the bar to cause the dies to cooperate with the anvils and punch peripheral notches in the plates.

1,679,573. KNOCKDOWN REEL. WILLIAM M. HIND, Buffalo, N. Y. Filed Feb. 18, 1924. Serial No. 693,477. 8 Claims. (Cl. 242—115.)

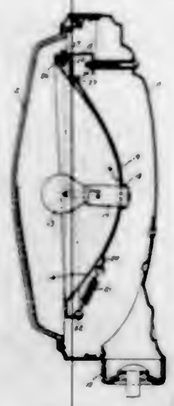


1. In a knock-down reel, disk-like end members, and cross brace members interlocked with and outwardly detachable from the end members and arranged to receive the material to be wound on the reel, the centers of the disk being deformed to provide elongated hubs for the mounting of the reel on axial supports.

1,679,574. LAMP-FOCUSING MECHANISM. SAMUEL W. HYATT, Connersville, Ind., assignor to Indiana Lamp Corporation, Connersville, Ind., a Corporation. Filed Feb. 7, 1927. Serial No. 166,424. 2 Claims. (Cl. 240—44.)

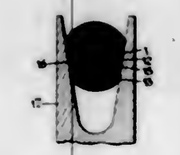
1. In a lamp the combination of a casing, a reflector therein having an elongated centrally positioned aperture, a light bulb support positioned therein, a strap positioned adjacent said reflector and having a rigid connection with

said light bulb support for supporting the same in adjusted position in said aperture, a member simultaneously securing said reflector to the casing and adjustably



but rigidly supporting one end of said strap, and yielding means connecting the opposite end of said strap to said reflector.

1,679,575. CORD BELT. NORRIS E. KIMBALL, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed Sept. 19, 1924, Serial No. 738,603. Divided and this application filed Dec. 4, 1925. Serial No. 73,221. 2 Claims. (Cl. 74—62.)



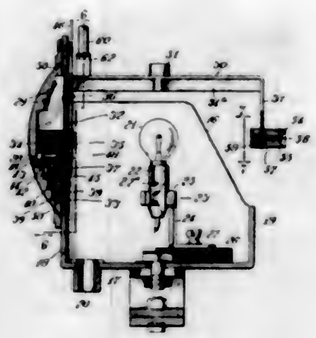
2. A belt of rubber and fabric comprising a core having a substantially circular cross-section and an envelope of resilient material formed with inner and outer convex surfaces and opposed tapered plane pulley engaging faces.

1,679,576. AUTOMOBILE WINDSHIELD CLEANER. GEORGE W. KNUTSON, Arlington, S. Dak. Filed Oct. 10, 1927. Serial No. 225,153. 1 Claim. (Cl. 15—256.)



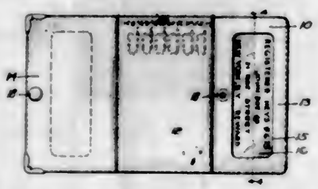
In a windshield cleaner comprising, an U-shaped member adapted to be pivotally supported by the windshield frame, so that its leg portions will depend at opposite sides of the windshield, a pair of elongated blocks, said block being substantially triangular in cross section, the upper end of each block being connected to the lower end of the respective arms, a pair of elongated scraper blades longitudinally secured to the inner side of each block, said blades being disposed outwardly in oblique relation to the inner side of the block and adapted to have their outer longitudinal edges engaging the windshield, the resilient squeegee strip arranged longitudinally on the inner side of the respective blocks and between said scraper blades, said squeegee being of a width greater than the distance between the inner side of the respective blocks and the plane of the outer edges of the blades, so that said squeegee will be in flexed position while in wiping contact with the windshield, and means for adjusting said U-shaped member at its bight portion for varying the pressure of the scraper blades and squeegees against the windshield.

1,679,577. FOCUSING DEVICE. BENJAMIN F. LOLLIS, Berwyn, Ill., assignor of one-half to Otto S. Fiath, Chicago, Ill. Filed June 21, 1923. Serial No. 646,741. 9 Claims. (Cl. 88—14.)



1. In combination with the housing of a signal lamp provided with a concavo-convex lens, a focusing device comprising a frame of length substantially equal to the depth of the housing from front to rear, the ends of the frame being bent downwardly and parallel with each other, an eye-piece carried by the rear end of the frame, clamping means carried by the forward end of the frame and adapted to form gripping relation with the lens, said eye-piece and clamping means having aligned axes, and means whereby said clamping means may be controlled.

1,679,578. INCLOSED TRANSPARENT WINDOW. CHARLES LORBER, Louisville, Ky. Filed Nov. 23, 1926. Serial No. 150,265. 2 Claims. (Cl. 150—40.)



1. A device of the class described including a body sheet and a lining of the same size as the body sheet and secured permanently throughout its peripheral portion to the peripheral portion of the body sheet, said body sheet and lining being foldable to provide a central portion, a wing foldable onto the central portion and a second wing foldable onto the first wing upon the latter being folded onto the central portion, said first wing having a window

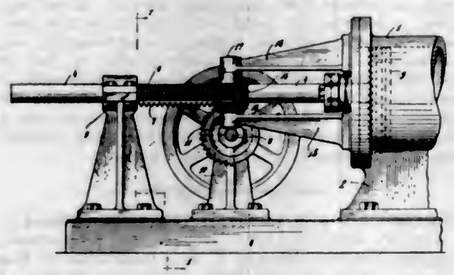
opening in the body sheet normally covered by the second wing, a transparent closure for said opening secured between the body sheet and lining, and a card held between the closure and lining.

1,679,579. GOLF-BALL TEE. ROBERT R. LUNDY, South Bend, Ind. Filed Dec. 27, 1927. Serial No. 242,814. 5 Claims. (Cl. 273—33.)



2. A golf ball support comprising a pin tapered at one end, and a resilient body member mounted on said pin, said body member carrying a flexible fin.

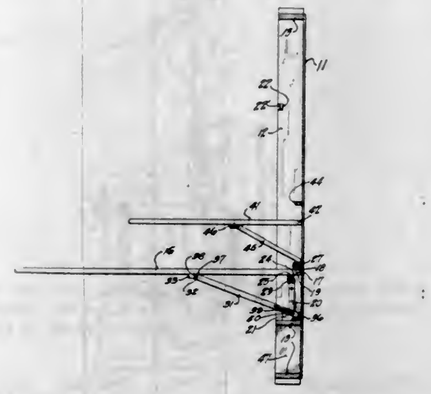
1,679,580. ENGINE-TRANSMISSION MECHANISM. SIMON MASEL, New York, N. Y. Filed June 21, 1927. Serial No. 200,435. 7 Claims. (Cl. 74—14.)



1. In transmission mechanisms for engines, a reciprocating piston rod and a rotatable power shaft, combined with two mutilated gears fixed on said shaft, said rod having two racks one cooperating directly with one of said mutilated gears, a pinion meshing with the other rack, and a gear connection between said pinion and the other of said mutilated gears.

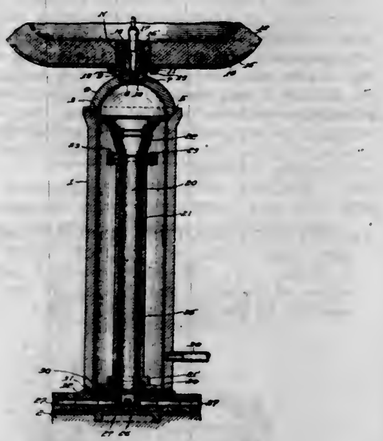
1,679,581. IRONING CABINET. DAY CHANNING MCCRAY, Oshkosh, Wis., assignor to Nathan Paine, Miami Beach, Fla. Filed Oct. 31, 1924. Serial No. 747,023. 3 Claims. (Cl. 68—10.)

1. In an ironing cabinet, the combination of a frame including spaced uprights, a pair of transverse members extending horizontally between said uprights and spaced to form a board-receiving entrance passage between them, one of said transverse members being disposed above the other and having a pocket in its lower face defined at its forward edge by a depending abutment spaced rearwardly from the upper edge of said lower transverse member, and an ironing board having its inner end movable between said uprights and provided with a projection adapted to seat in said pocket behind said abutment, the inner end of said ironing board being slidably engageable with the upper edge of said lower transverse member during insertion into said passage and being adapted to fulcrum on the upper edge of said lower transverse member after such insertion for effecting a horizontal disposition of the board and for seating said projection in said pocket in engagement with said depending abutment to prevent the forward displacement of the board, and said board being alternatively retained in upright position



within the frame in front of the lower transverse member and with the inner end of said board below said transverse members.

1,679,582. METHOD OF AND APPARATUS FOR CASTING METAL. JAMES M. NELSON, Youngstown, Ohio. Filed Nov. 19, 1926. Serial No. 149,289. 13 Claims. (Cl. 22—209.)

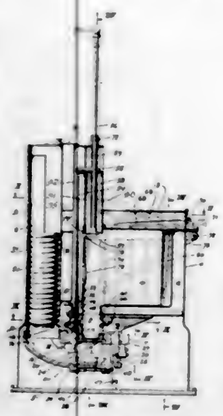


1. In an apparatus for casting metal, a hood, a fusible element closing the base of the hood, an aperture in the wall of the hood above the element adapted for the reception of the nozzle plate of a casting ladle, and means for exhausting the air within the hood when said aperture is closed by said nozzle plate.

1,679,583. FOOD CUTTER AND SERVER. ALBERT NINNIS, Reno, Nev. Filed Apr. 14, 1926. Serial No. 101,909. 12 Claims. (Cl. 31—6.)

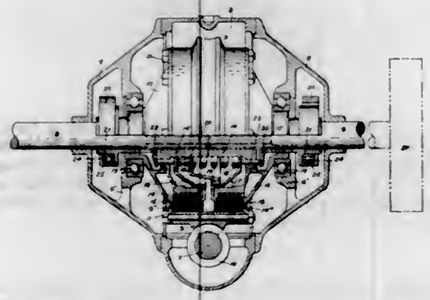
1. In a machine of the character described, the combination with a magazine for holding a column of sliceable food, of a movable member at the lower end of the magazine, a cutting wire on said movable member for cutting a slice from the column, an extension on the magazine and in communication therewith for holding a plu-

rality of surplus columns, and means for transferring the surplus columns, one by one into the magazine as required.



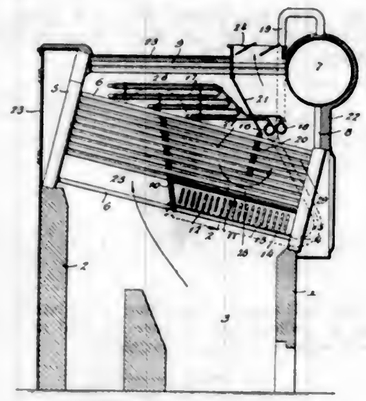
8. In a machine of the character described the combination with a magazine adapted to receive a column of sliceable food, of a sliding plate below the magazine normally forming a bottom therefor to support the column of food, said plate having a discharge opening formed therein, a cutting wire carried by the plate forward of the discharge opening, means for imparting a reciprocal movement to the plate to cut a slice off of the column and to bring the discharge opening into alignment with the column, a pair of bell-cranks pivotally mounted one on each side of the magazine, a gripping member on one end of each bell-crank adapted to be moved into and out of engagement with the food column during movement of the bell-cranks about their pivots, a spring connecting the bell-cranks and normally holding the gripping members in engagement with the food column, and a lug on the sliding plate engageable with the opposite ends of the bell-cranks to swing the same about their pivots to release the gripping members.

1,679,584. CONTROL UNIT. EMIL F. NORELIUS, Davenport, Iowa. Filed Oct. 12, 1925. Serial No. 62,205. 9 Claims. (Cl. 180—17.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625, as amended by the act of Apr. 30, 1928.)



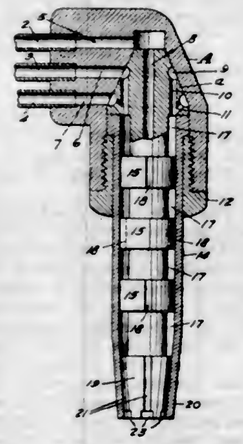
9. A pair of selectively rotatable members mounted for sliding movement on a common axis, a tension element for normally holding each of said members in outermost position, and pressure transmitting means held positively to but one of said members for preventing winding and unwinding motion being transmitted to the tension element due to relative movement between said members.

1,679,585. SUPERHEATER FOR BOILERS. RUDOLF M. OSTERMANN, Evanston, Ill., assignor to The Superheater Company, New York, N. Y., a Corporation of Delaware. Filed June 28, 1924. Serial No. 722,890. 4 Claims. (Cl. 122—478.)



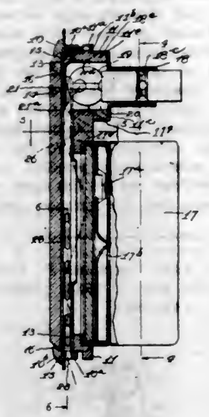
1. In combination with a boiler furnace and a boiler having inclined tubes set above said furnace at different levels, an upright baffle extending upwardly across said tubes, a longitudinal baffle extending from the first-mentioned baffle above the bottom thereof forwardly and downwardly at an inclination corresponding to that of said tubes and forming with said longitudinal baffle a closed pocket out of the path of the furnace gases but exposed to the radiant heat from said furnace, and a superheater located in the pocket below said inclined baffle and in advance of said upright baffle.

1,679,586. TIP FOR CUTTING TORCHES. GEORGE C. QUELCH, Oakmont, Pa., assignor to International Oxygen Company, Newark, N. J., a Corporation of New Jersey. Filed Dec. 21, 1926. Serial No. 156,210. 2 Claims. (Cl. 158—27.4.)



2. A cutting tip of the class described having a central oxygen conduit adapted to communicate with a central supply port, a tapering head having ports adapted to communicate with low pressure oxygen and gas supply conduits respectively, and having an annular reduced neck portion beyond the tapering head, a plurality of annular abutments and reduced neck portions alternately located beyond said annular chamber, each of said abutments having a pair of oppositely located longitudinal ports arranged alternatingly between similar ports of an adjacent abutment, with a final terminal tapered abutment having an annular series of final delivery channels leading from the endmost annular chamber to the end of the cutting tip, said delivery channels being outwardly enlarged towards their middle portion without subsequent diminution and having further enlarged outlet terminals ending on the plane of the end of the tip.

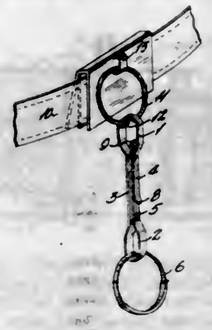
1,679,587. ILLUMINATED INSTRUMENT PANEL. WILLIAM H. SCHULZE, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Mar. 20, 1926. Serial No. 17,010. 4 Claims. (Cl. 240—8.16.)



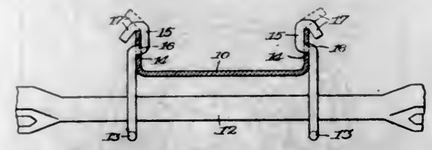
1. An instrument mount for motor vehicles and the like, comprising an encompassing front frame and a back frame member adapted to be secured together, the back member having apertures for insertion and securement of the several instruments to be served; a face plate-in-common occupying the entire area of the front frame opening, said face plate having openings registering with the faces of the several instruments for reading the same, and a glass-in-common over all the instruments secured in the front frame occupying substantially the entire opening thereof in the front of said face plate-in-common; the back frame member having near one lateral edge an aperture for mounting a lamp, and a reflecting hood overhanging the lamp and open toward the opposite lateral edge and toward the ends of the frame for diffusing the light under the back of the glass-in-common, the hood being formed and positioned, as to the opening through which the light is directed over the face plate, for causing a substantial portion of the rays of the lamp to impinge on the back or inner side of the glass at an angle for being reflected therefrom onto the exposed faces of the instrument.

1,679,588. KEY-RING HOLDER. EDWIN SPRAUL, Chicago, Ill. Filed Feb. 6, 1928. Serial No. 252,108. 1 Claim. (Cl. 24—3.)

A key ring holder formed integrally of a thin, flat strip of material and comprising an upper loop, a lower loop, an intermediate connecting strip for the loops, an outer ring receiving tongue strip and a medial upwardly projected ring guard strip having its upper extremity extended into the said upper loop, the said strips being all formed concavo-convex on a cross section, and assembled in nested relation.

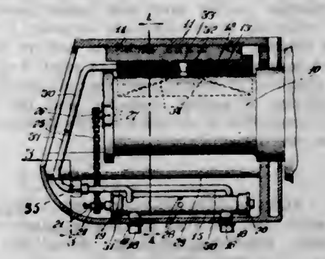


1,679,589. SAFETY DEVICE FOR BRAKE-LEVER SPREADERS. SVEN J. STRID, Chicago, Ill., assignor to Fred Mathews, Chicago, Ill. Filed Sept. 30, 1926. Serial No. 138,785. 3 Claims. (Cl. 188—205.)



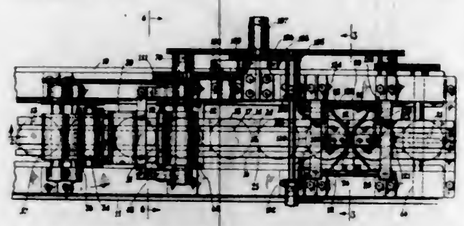
1. The combination with an apertured spring plank, of a brake lever spreader safety device consisting of a hanger through which the spreader extends, said hanger having an attaching portion thereof passed through the aperture of said spring plank and bent into interlocking position with relation thereto.

1,679,590. JOURNAL-LUBRICATING SYSTEM. CARL JOSEPH STRUVE, Elgin, Ill. Filed Aug. 23, 1924. Serial No. 733,679. 4 Claims. (Cl. 308—85.)



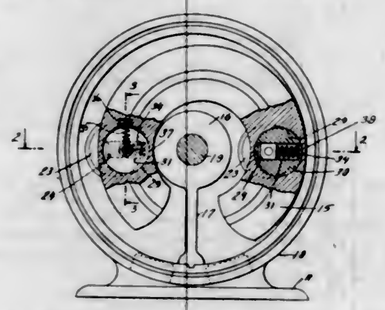
1. A system of the character described, comprising in combination with a journal-box, a cylinder located in the bottom of the journal-box and provided with clean-out nipples adapted to extend through the bottom of the journal-box, closures for said nipples, a spiral screw disposed lengthwise in the cylinder, inlet ports in the side wall of the cylinder for receiving the oil from the journal-box, conduits communicating with both ends of the cylinder and arranged to discharge the oil above the journal, and means intermediate of the journal and the spiral screw whereby the latter is rotated as the journal revolves and the oil caused to flow toward one end of the cylinder and through the respective conduit.

1,679,591. SEALING METHOD AND MECHANISM FOR CONTAINERS. JOHN VAN BUREN, Brooklyn, N. Y. Filed Nov. 5, 1926. Serial No. 146,427. 35 Claims. (Cl. 113—1.)



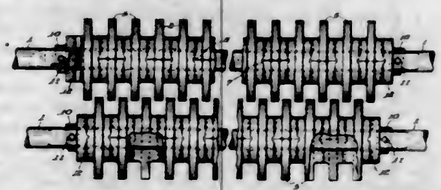
1. In combination, means for supporting and feeding a plurality of containers, means for applying lubricant to one end of each container, means for feeding an elongated strip of material across said ends and into engagement therewith, and means movable toward the longitudinal center of the sheet from the longitudinal edges thereof for severing said sheet at each side of each container.

1,679,592. PUMP, ENGINE, AND THE LIKE. ALFRED L. WILLIAMS, Philadelphia, Pa. Filed Feb. 20, 1926. Serial No. 89,596. 8 Claims. (Cl. 103—131.)



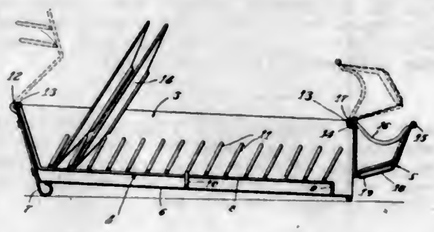
1. An engine or pump of the kind described, comprising a displacer element entirely enclosed and adapted to be displaced within a chamber in such manner as to maintain a traveling zone of contact with the walls thereof, the chamber having inlet and outlet ports, crank members connected to the displacer element, a yielding connection between the crank members and the displacer, these crank members being adapted to rotate and also to guide the displacer in such manner that all points thereof move in circles of similar diameter, and the yielding connection permitting a variation in the diameter of the circles last mentioned.

1,679,593. ROTARY GRIZZLY SCREEN. HERBERT C. WILLIAMSON and BUFORD M. STUBBLEFIELD, Youngstown, Ohio. Filed Apr. 29, 1927. Serial No. 187,460. 9 Claims. (Cl. 209—104.)



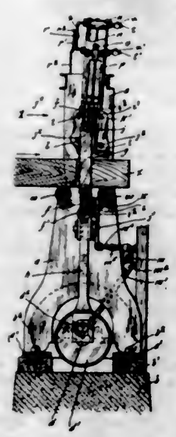
1. In a grizzly screen or the like, a shaft and a series of disks disposed on said shaft, each of said disks being formed in two similar complementary sections and embodying means on each of its end faces inter-engaging complementary means on the adjacent disks to hold the sections of the disk together on the shaft.

1,679,594. DISH DRIER. ARTHUR G. ANDREWS, Rockford, Ill., assignor to The Washburn Company, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 15, 1925. Serial No. 50,367. 4 Claims. (Cl. 141—11.)



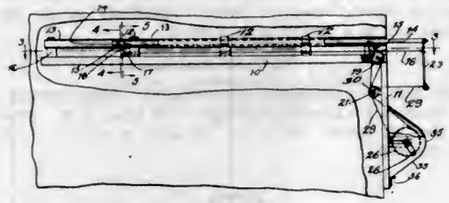
1. In a dish drier or drainer, a sheet metal drain pan having one end open for drainage of water therefrom into an adjacent sink or other drain receptacle, and a dish tray in said pan composed of longitudinal supporting wires resting on the bottom of the pan and cross-wires projecting upwardly therefrom, the longitudinal wires being bent upwardly at the closed end of the pan and pivotally attached to the upper edge of the pan on the said closed end thereof, and the cross-wires being disposed in substantially parallel relation to one another and all inclined toward the open end of the pan substantially as and for the purpose described.

1,679,595. GANG SAW. EDWARD P. ARMSTRONG, Portland, Oreg. Filed May 6, 1926. Serial No. 107,138. 5 Claims. (Cl. 143—80.)



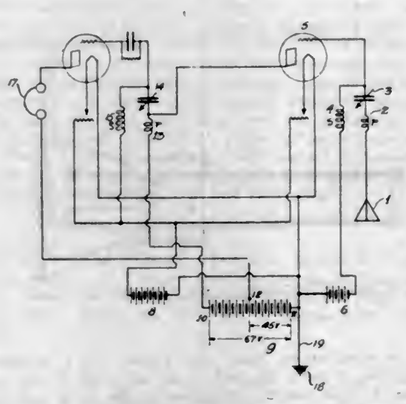
1. In a gang-saw having a reciprocating saw-sash, an adjustable guideway at each side of said saw-sash, a guide-head operating in each guideway to which guide-heads one of said saw-sash is connected, each guideway having a frame extension, a compression-cylinder mounted on each of said frame extensions and a piston in each compression-cylinder, the piston being connected to and axially-alined with the path of motion of its related guide-head, each compression-cylinder being provided with a valve controlled fluid-inlet at both ends, a fluid passage connecting said ends, and a valve in said passage, means for operating the latter valves in unison.

1,679,596. WASH HANGER. KONSTANTYN BABECKI, Woodside, N. Y. Filed May 6, 1927. Serial No. 189,327. 2 Claims. (Cl. 211—94.)



1. In a wash hanger of the class described, an angular bracket, provided with a plurality of depressions for the reception of the hanger operating elements, a pipe held on the larger horizontal branch of said bracket in the direction of its longitudinal axis, a rod slidably arranged within said pipe, adapted to be extended therefrom, a T-bar depending from the outer end of said rod, a rope secured at one end to said rod and at its opposite end to said T-bar, means for guiding said rope intermediate its ends, and a drum for winding said rope and unwinding the same therefrom for moving said rope and rod, and a plurality of clothes hanging lines participating in the outward and inward movements of said rod.

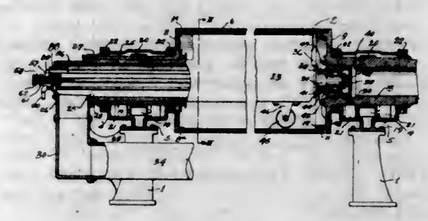
1,679,597. RADIO RECEIVING CIRCUIT. THOMAS H. BERKLAND, Chicago, Ill. Filed July 13, 1925. Serial No. 43,115. 2 Claims. (Cl. 250—20.)



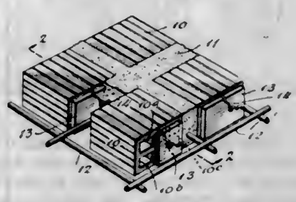
1. In a radio receiving system, a thermionic tube, the primary of a radio frequency transformer, the secondary of said radio frequency transformer, said secondary conductively connected at one end to the grid of said tube and at the other end to a grid-potential control battery, and the primary of said transformer conductively connected to the antenna at one end and capacitively connected to the grid of said tube through a variable condenser at the other end.

1,679,598. SUCTION ROLL. EARL E. BERRY, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a Corporation of Wisconsin. Filed Oct. 5, 1925. Serial No. 60,409. 22 Claims. (Cl. 92—53.)

1. The combination with a suction roll having a perforated shell, of a suction chamber mounted within said shell, a floating packing head for said chamber adapted to contact the interior surface of said shell to confine an area thereof, self adjusting sealing means movably positioned between said floating head and said chamber and a plurality of longitudinally spaced resilient means adapted to balance the weight of said head.



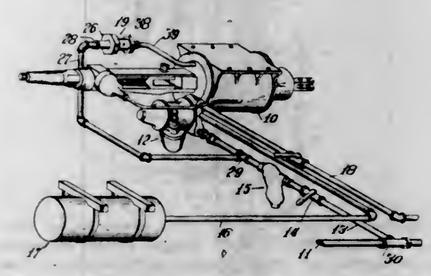
1,679,599. BUILDING CONSTRUCTION. PHILIP H. BEVIER, Brooklyn, N. Y. Filed Nov. 9, 1925. Serial No. 67,721. 11 Claims. (Cl. 72—66.)



6. In a reinforced concrete floor, the combination with a plurality of hollow tiles arranged in spaced relationship with reinforced concrete joists extending across said floor between said tiles, of a plurality of slabs for closing the open ends of said tiles to prevent ingress of concrete to the cells of said tiles, the width and length of said slabs being less respectively than the height and width of said tiles, and carriers upon which said slabs are supported, said carriers being supported by said tiles and extending across the space between the open ends of adjacent tiles.

8. A reinforced concrete floor as set forth in claim 6 in which means are provided to hold said slabs securely against the ends of said tiles.

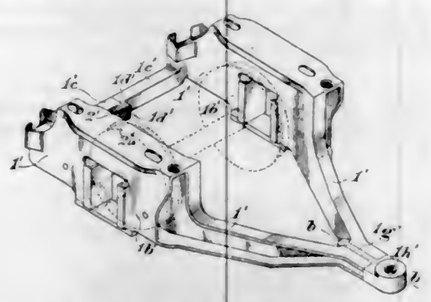
1,679,600. BRAKE-CYLINDER RELEASE VALVE. THOMAS H. BIRCH, Milwaukee, Wis. Filed Oct. 21, 1926. Serial No. 143,088. 5 Claims. (Cl. 303—69.)



1. A device of the character described comprising a casing adapted to be connected at opposite ends with the brake pipe and with the brake cylinder of a railroad air brake system and provided with an exhaust port, a diaphragm carrying member in said casing whereby

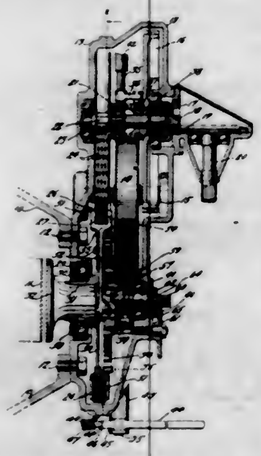
communication between the casing and brake pipe is closed, a spring for placing said member and diaphragm under pressure, means adjustable in the casing for regulating the pressure of said spring, and means in the connection between said casing and the brake cylinder for controlling communication between the casing and the cylinder, said last means being actuated by said diaphragm carrying member when the pressure on the brake pipe side of the diaphragm reaches a predetermined degree, whereby communication between the brake cylinder and said casing is established.

1,679,601. TRUCK FOR RAILROAD VEHICLES. ALFRED W. BRUCE, New York, N. Y. Filed May 18, 1927. Serial No. 192,203. 5 Claims. (Cl. 105—174.)



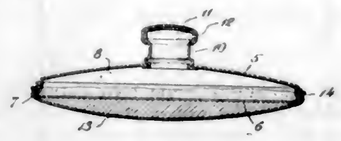
1. In a fabricated truck frame for railroad vehicles, the combination of two counterpart side members, each comprising, in an integral structure, a top rail, pedestal jaws, depending therefrom, and one or more laterally projecting cross tie sections, each of which abuts against a counterpart section on the other side member; means by which the abutting sections are rigidly secured, one to the other; and means for pivotally connecting the assembled members to the main frame of a railroad vehicle.

1,679,602. STARTER MECHANISM. ROLAND CHILTON, Keyport, N. J., assignor, by mesne assignments, to Aeromarine Starter Company, Inc., a Corporation of New York. Filed Mar. 19, 1926. Serial No. 95,952. 23 Claims. (Cl. 123—179.)



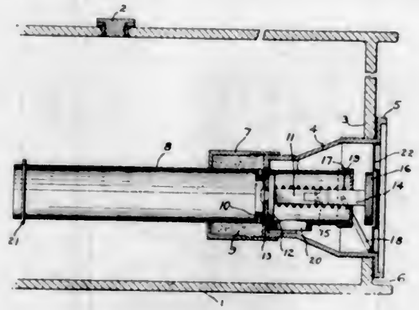
1. In apparatus of the class described, the combination of a driving member, a chain connected to the driving member at a point closely adjacent the axis of said member, and adapted to wrap around said axis on a path extending spirally from the point of chain anchorage, a driven drum engaged by the chain, a flywheel adapted to be accelerated to high speed from a source of power, a reduction gear train between the flywheel and the driving member, and means to connect the driving member and the drum respectively to the flywheel and to a means to be started.

1,679,603. COMBINED RECEPTACLE AND BUFFER. FRANCIS JONATHAN CLEMENGER, New York, N. Y. Filed Mar. 9, 1926. Serial No. 93,483. 8 Claims. (Cl. 132—78.)



1. A combined receptacle and buffer adapted to facilitate the application of polish to finger-nails comprising a body forming the receptacle and carrying the buffing material, the body portion having perforations above the buffing material through which the polish can be sifted and a cover for the perforations.

1,679,604. COMBINATION BUNG AND FAUCET. GEORGE W. COOKE, Forest Hills, N. Y., assignor, by mesne assignments, to Standard Faucet Works, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 13, 1926. Serial No. 141,387. 8 Claims. (Cl. 221—27.)

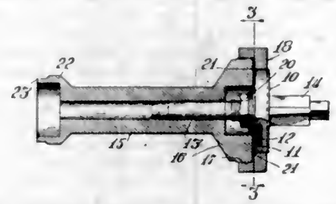


1. A combination bung and faucet for a container comprising a bung adapted to be attached to the container, a tube slidably mounted in the bung and provided with a discharge orifice and a transverse valve seat, a valve slidably mounted in the tube, means for holding the valve against the seat and means whereby the valve may be withdrawn from the seat to permit the contents of the container to flow from the orifice.

1,679,605. VALVE-RESEATING TOOL AND GAUGE. RUEL H. EAVES, Needles, Calif. Filed Nov. 8, 1926. Serial No. 146,972. 2 Claims. (Cl. 51—197.)

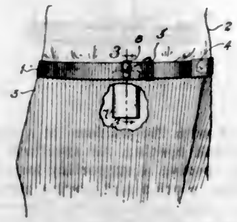
1. A tool of the character described comprising a body portion provided with an elongated valve-stem receiving passage and terminating in an enlarged externally threaded end provided with a flat annular valve seating face, and a flanged cap provided with a valve-receiving opening, to hold the valve concentrically in place, the flange of said cap being internally threaded to screw

onto said enlarged end of the body portion and having slots arranged parallel with said valve seating face adapted to come substantially flush with said face, said



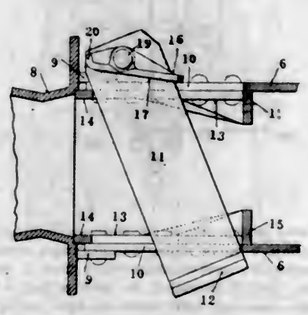
slots being adapted to receive strips of abrasive material immovably held in place when said cap is screwed into place.

1,679,606. SAFETY POCKETBOOK. WILLIAM JORDAN GRAVES, Fort Worth, Tex. Filed Mar. 21, 1927. Serial No. 176,970. 1 Claim. (Cl. 224—26.)



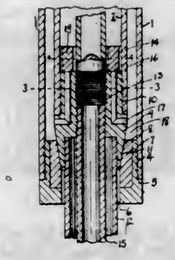
The combination with a safety container such as a purse, bill-fold or the like, adapted to be removably attached directly to the belt of the user, so as to permit ready access to the contents of the container, and remotely secured to the belt to prevent loss of the container, of a clip permanently secured direct to the container and having a lip fitting over the outside of the belt to hold the container in place but permit immediate removal thereof, a sliding clasp secured permanently to the belt as long as the belt is buckled, and a flexible connection between said clip and said clasp.

1,679,607. DRAFT GEAR. LOUIS A. HOEAR, St. Louis, Mo., assignor to Western Railway Equipment Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 10, 1927. Serial No. 167,106. 2 Claims. (Cl. 213—61.)



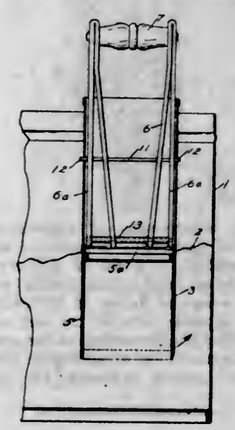
1. In a device of the class described, the combination with draft sills provided with key slots, of a key projecting through said slots, and a U-shaped retaining member embracing and pivoted to one end of said key, said retaining member having its greater width at its pivotal point and tapering from said joint toward both ends.

1,679,608. ATTACHMENT FOR PUMPS. GRANVILLE A. HUMASON and WILLIAM L. CHILDS, Houston, Tex.; said Childs assignor to Reed Roller Bit Company, Houston, Tex., and said Humason assignor to J. A. Logan, Harris County, Tex. Original application filed May 14, 1926, Serial No. 109,137. Divided and this application filed Dec. 27, 1926, Serial No. 157,316. Renewed May 18, 1928. 3 Claims. (Cl. 103—204.)



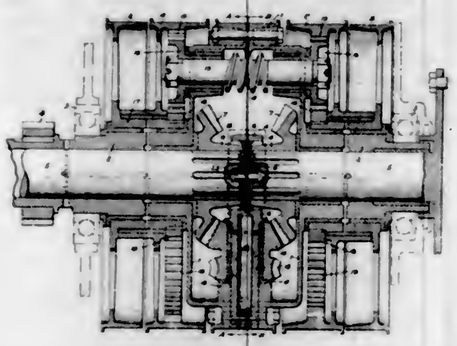
1. In a pump, a tubing, a standing valve head closing the lower end thereof, a standing valve barrel projecting upwardly from said head, a valve in said standing valve barrel, said head having openings therein connecting the outside thereof with the interior of said tubing, and a casing outside said tubing through which fluid may be discharged through said openings and upwardly in said tubing outside said standing valve barrel.

1,679,609. ICE-CREAM-CONTAINER FILLER. CECIL G. JOHNSTON, Meadville, Pa., assignor of one-half to Edna B. Johnston, Meadville, Pa. Filed July 20, 1927. Serial No. 207,116. 3 Claims. (Cl. 226—19.)



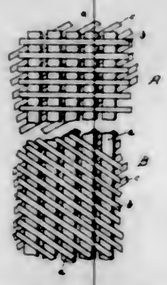
1. In an ice cream container filler, the combination of a container holder having walls surrounding the container; a stop forming a guard lip at the bottom of the holder; a movable backing arranged in the holder engaging the bottom of the container; and a locking device for the backing comprising a longitudinal slot in the container holder having a lateral extension and a plurality of projections on the backing for varying the position of the backing to different sizes of containers.

1,679,610. DOUBLE-RADIUS CONTROLLED DIFFERENTIAL. HARRY A. KNOX, Davenport, Iowa. Filed Nov. 8, 1924. Serial No. 748,892. 8 Claims. (Cl. 180—17.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625.)



5. In a differential steering gear for motor vehicles, the combination with planet pinions, of worm wheels fast on said pinions, worms meshing with said worm wheels for locking the same to maintain the vehicle on a straight course, and positive means for rotating the worms at different rates of speed to change the course of the vehicle.

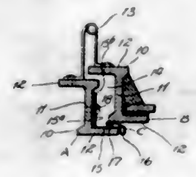
1,679,611. WALL CONSTRUCTION. HANS KUPELWIESER, St. Polten, Austria. Filed June 30, 1925, Serial No. 40,555, and in Austria Sept. 2, 1924. 5 Claims. (Cl. 72—33.)



1. In a wall construction of concrete and wood, a wooden structure comprising a series of spaced vertical lath shaped members, a series of lattice-work members applied to the broad faces of the vertical members at an angle thereto, a second series of lattice-work members applied to the opposite faces of the vertical members in such a manner that the interstices of the opposing lattice-works are substantially out of alignment with each other, and a concrete casing enclosing the entire wooden structure.

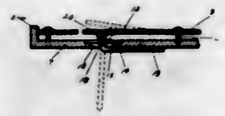
1,679,612. METAL WEATHER STRIP. ALFRED M. LANE, St. Louis, Mo., assignor to Monarch Metal Products Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 14, 1926. Serial No. 81,151. 2 Claims. (Cl. 20—69.)

1. The combination of a metal window frame having a sash opening provided with an angular recess extending along the edges thereof, and a metal sash hinged in said opening with its marginal portions disposed in said recess of a metal weatherstrip of angular section fitting in said angular recess with one flange only secured directly thereto, the other flange of said strip being left free with its outer margin overlapping the edge of said recess and



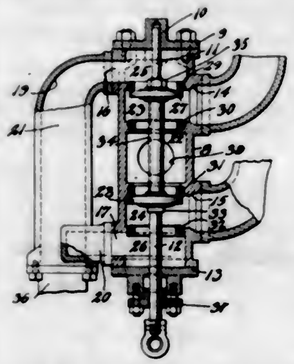
doubled back toward the corner thereof alongside the free flange of said strip to form a sealing flange adapted to yieldably engage the adjacent face of said sash.

1,679,613. PLATFORM SUPPORT FOR CAMERAS. LEW W. LESSLER, Johnson City, N. Y., assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed Aug. 1, 1927. Serial No. 209,979. 1 Claim. (Cl. 95—86.)



In combination with the platform of a camera provided with a countersunk opening, an apertured bearing plate mounted in said opening, a supporting leg provided at one end with an offset portion and pintles pivotally mounted in said bearing, said leg extending downwardly through said opening and aperture, a fixed rail plate on said platform provided with a resilient tongue struck therefrom overlying said opening and engageable with said offset portion whereby said leg is held in adjusted position.

1,679,614. MULTIPLE-TANK WATER-SUPPLY MECHANISM. ERICH H. LICHTENBERG, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis. Filed July 27, 1925, Serial No. 46,313. Renewed Oct. 14, 1927. 6 Claims. (Cl. 277—14.)

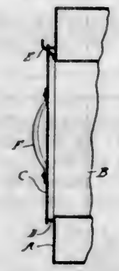


1. In water supply means for concrete mixing machines, in combination, a valve casing comprising a central water supply chamber to receive some water from a main water supply line, valves arranged in said casing at opposite ends of said chamber, valve seats in said casing arranged in pairs at opposite ends of said chamber, the seats of each pair being located upon opposite sides of one of the valves, water inflow ports communicating with the casing between the valve seats of said pairs of seats,

water outflow chambers, one located at the outer side of the outermost of one pair of valve seats and the other located at the outer side of the outer one of the other pair of valve seats, outflow passage means connected with the outflow chambers, and means for operating the valves.

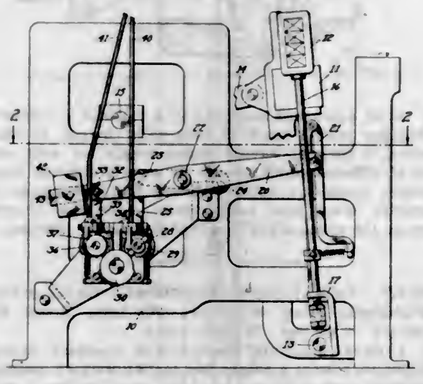
5. Valve means of the class described comprising a casing having a water supply port at its central portion, valve seats at opposite sides of said port and within the casing, a valve seat adjacent to each of the valve seats aforesaid, spaced therefrom, a valve between each of the last mentioned valve seats and its particular adjacent valve seat, water inflow pipes communicating with the casing at points between each set of valve seats on opposite sides of the water supply port, an outflow passage means leading from the casing and having controlled communication with the inflow pipes by means of said valves.

1,679,615. DETACHABLE COVER FOR ICE TRAY COMPARTMENTS IN REFRIGERATING APPARATUS. HUBERT R. LORANGER, Highland Park, Mich. Filed Feb. 16, 1925. Seral No. 9,635. 8 Claims. (Cl. 62—95.)



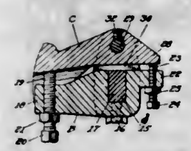
1. The combination with a casing having a freezing chamber therein opening out through a substantially vertical wall of the tank, of a closure for said chamber comprising a cover having an inwardly extending annular flange surrounding the opening into said chamber and forming a limited contact with the walls of the casing, and means for supporting said closure and holding said flange in contact.

1,679,616. BOX MOTION FOR LOOMS. WILLIAM E. LUNDGREN, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 15, 1926. Serial No. 148,427. 2 Claims. (Cl. 139—181.)



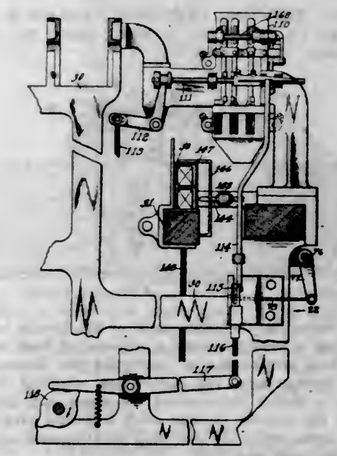
1. In a drop box loom, a plurality of drop boxes, a lifting lever therefor, a floating pivot for said lever, an arm on which said pivot is mounted, said arm swinging upon a pivot fixed in position substantially forward of said floating pivot and said arm also extending substantially rearward of said floating pivot, actuating means engaging the rear end of said arm to move said floating pivot, additional actuating means positioned rearward of said first actuating means and engaging said lifting lever and effective to swing said lever on its floating pivot, and a counterweight for said drop boxes mounted directly on said lifting lever at a point rearward of the connection of said second actuating means thereto.

1,679,617. PICKING MOTION FOR LOOMS. CLARENCE L. MAY, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 12, 1927. Serial No. 225,798. 6 Claims. (Cl. 139—147.)



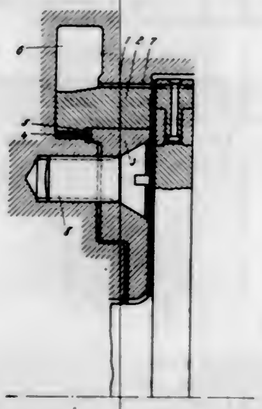
1. In a picking motion for a loom having a bottom shaft with a picking arm and a picker shaft, a picker shoe including a body portion secured to the picker shaft, said picker shoe having a cam portion pivotally mounted on the body portion to move in a vertical plane to raise the cam portion as a whole with respect to the picker shaft.

1,679,618. WEFT-REPLENISHING LOOM. BENJAMIN F. MCGUINESS, Saundersville, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 4, 1925. Serial No. 73,245. 26 Claims. (Cl. 139—232.)



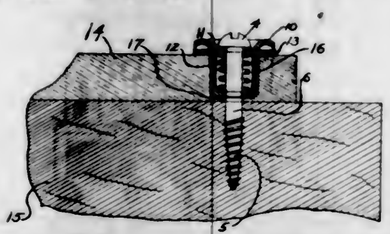
1. A weft replenishing drop box loom having, in combination, shifting shuttle boxes, a magazine, weft replenishing mechanism associated therewith, a single weft detector, means to move said weft detector into position to enter any selected shuttle about to become active, and means to thereafter positively connect said detector with the shuttle box of the selected shuttle and to positively maintain operative relation between the weft detector and said shuttle during the vertical shifting of the boxes.

1,679,619. NOZZLE CONSTRUCTION FOR STEAM TURBINES. GUSTAV MENZ, Berlin-Charlottenburg, Germany, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Hertfung, Berlin-Siemensstadt, Germany, a Corporation of Germany. Filed Feb. 12, 1927, Serial No. 167,742, and in Germany Feb. 17, 1926. 3 Claims. (Cl. 253—78.)



1. In a steam turbine the combination of a casing, a nozzle carrier having nozzle grooves in its outer periphery and forming a complete solid ring located in the turbine casing, and having its outer periphery shrunk against the inner periphery of the turbine casing, which forms one of the nozzle sides, and means for tightening the ring at its inner surface against the casing so that the steam admitted to the nozzles can flow only substantially in the axial direction of the turbine.

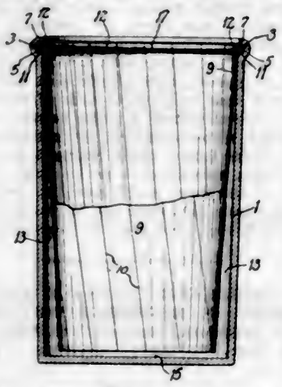
1,679,620. YIELDING FASTENER. THOMAS M. MOORE, Chicago, Ill. Filed Oct. 4, 1926. Serial No. 139,321. 5 Claims. (Cl. 85—50.)



1. A device for fastening glass or the like to a support comprising a headed screw; a cap-shaped shell having a bottom hole and having an outturned rim flange; a ring loosely fitting upon the screw and abutting the head thereof; a spring surrounding the screw and imprisoned between the bottom of said shell and said ring; and a washer surrounding the shell and abutting said rim flange, substantially as described.

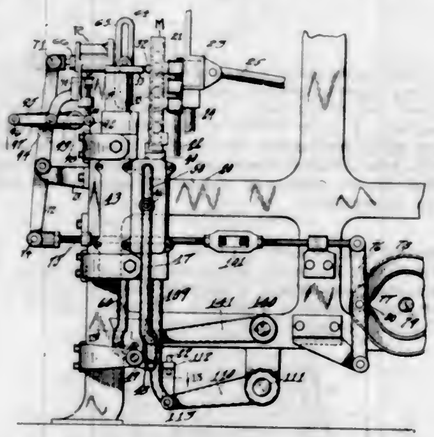
1,679,621. CONTAINER. WILLIAM C. MYERS, East St. Louis, Ill. Filed Jan. 6, 1927. Serial No. 159,376. 3 Claims. (Cl. 220—65.)

1. A container comprising an outer non-resilient and substantially indestrictible cup having an internal lip near its upper edge and an internal contiguous recess below said lip, an inner resilient and destrictible cup having an outwardly formed hollow shoulder near its upper edge, means permitting springing of said shoulder into said recess and a resilient disc adapted to be sprung into said recess containing said shoulder to hold the



shoulder therein between said disc and the outer cup, the edge of the inner cup being then located above the periphery of said disc.

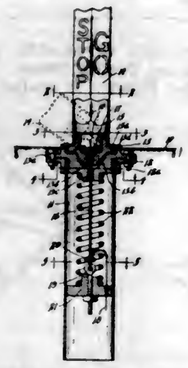
1,679,622. WEFT-REPLENISHING MECHANISM FOR LOOMS. SAMUEL A. NELSON, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed May 29, 1926. Serial No. 112,642. 25 Claims. (Cl. 139—232.)



1. In an automatic loom having a lay and a plurality of shifting shuttle boxes at both ends thereof, in combination, a magaine having compartments for weft carriers of different kinds, means to move a selected compartment opposite a selected shuttle box, and means to thereafter move said compartment with said shuttle boxes as the selected box is moved to running position.

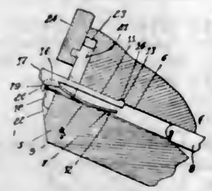
1,679,623. SIGNAL-POST STRUCTURE. HENRY OLSEN, Minneapolis, Minn. Filed Oct. 25, 1926. Serial No. 143,916. 7 Claims. (Cl. 40—145.)

1. A signal structure comprising a standard having adjacent its bottom a supporting portion with an annular supporting surface convex in radial cross section, a supporting member having a horizontal surface on which said convex surface rests and having an upstanding flange surrounding said supporting portion and preventing bodily lateral movement thereof, centering means within said flange of angular shape in horizontal cross section for said standard and flexible resilient means



holding said standard in vertical position but permitting downward swinging movement thereof and for returning the same to normal position.

1,679,624. SPRING-BEARD-NEEDLE MECHANISM. WILLIAM S. PARKER, Rockford, Ill., assignor to Burson Knitting Company, Rockford, Ill., a Corporation of Illinois. Filed Apr. 27, 1925. Serial No. 26,015. 16 Claims. (Cl. 66—101.)



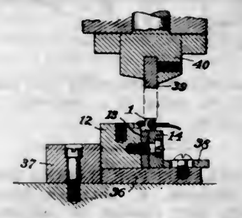
1. A single part for a knitting machine equipped with spring beard needles, comprising a needle-pressing spring portion for seating a needle in its bed and a beard closer portion.

1,679,625. PUMP FOR WELLS. JOHN PENROD and ROBERT D. THOMPSON, Okmulgee, Okla. Filed Mar. 23, 1926. Serial No. 96,807. 19 Claims. (Cl. 103—220.)



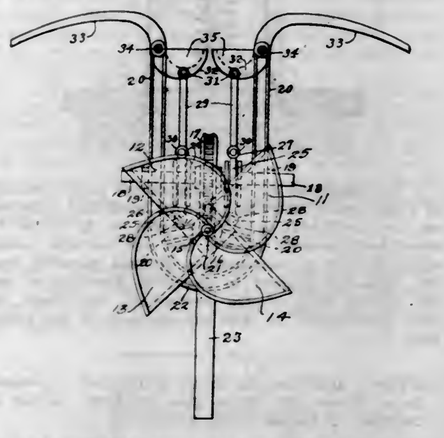
1. In a pump, the combination of a working barrel, a shell receiving the working barrel and being spaced therefrom to define a sand receiving pocket, means movably supporting the barrel, and a valve for said pocket movable supported by said means.

1,679,626. METHOD OF MANIPULATING MULTIPLE FASTENERS. JOSEPH E. PERRAULT, Watertown, Mass., assignor to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed Sept. 15, 1926. Serial No. 135,634. 6 Claims. (Cl. 29—148.)



1. The herein described method of manipulating multiple fastener elements of the type described which consists in cutting through the bases of the elements to form slots, widening the slots by a spreading action, inserting a carrier tape, and thereafter compressing the walls of the slots upon said tape.

1,679,627. MECHANICAL DEVICE. HENRY RABINOWITZ, Brooklyn, N. Y., assignor to Bertha Rabinowitz, Brooklyn, N. Y. Filed Aug. 31, 1927. Serial No. 216,569. 4 Claims. (Cl. 46—14.)

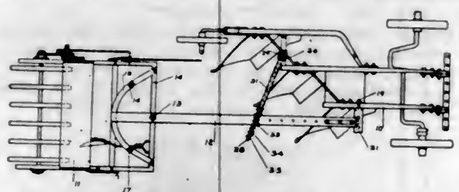


1. In a mechanical device the combination of a bracket, a pair of evenly counter-balanced wings, pivotally mounted thereon, a means for imparting a visible flapping motion to said wings, a wind motor revolvably mounted on said bracket, to actuate said imparting means, and a means for reducing the velocity of said imparting means from said motor, thereby rendering the flapping of said wings visible.

1,679,628. ATTACHMENT MECHANISM. LUTHER E ROBY, Peoria, Ill. Filed Mar. 19, 1926, Serial No. 95,908. Renewed Mar. 3, 1927. 3 Claims. (Cl. 97—6.)

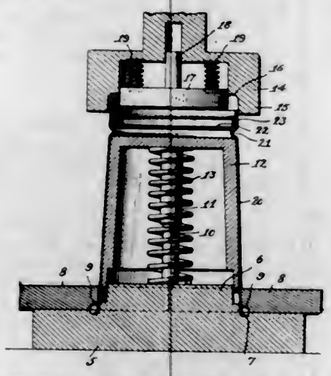
1. The combination with a plow and a drill member, of attachment means therebetween adapted to insure travel of the drill in alignment with the plow, as well as permitting short turning radius, including a tongue attached to the plow and having a pivotal connection, at a point near its opposite end, with the drill, framing members disposed rearwardly of the pivotal connection with the drill, said framing members controlling the

movement of the tongue with respect to the drill member, stop members on the framing members to limit the turning movement of the drill with relation to the



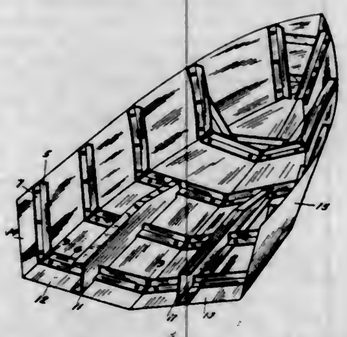
tongue, and mechanism connecting the plow with the tongue to hold the latter in a semi-rigid manner with respect to the plow.

1,679,629. APPARATUS FOR MAKING SHEET-METAL VESSELS. MICHAEL A. ROLLMAN, Mount Joy, Pa. Filed Nov. 25, 1922. Serial No. 603,202. 2 Claims. (Cl. 113—16.)



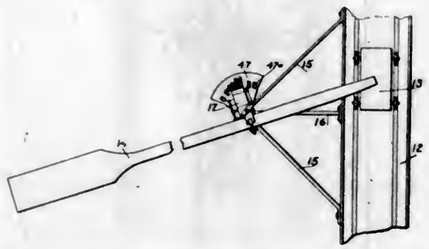
1. An apparatus for the purpose set forth consisting of a base and cooperating plates for producing a rim-bead on the bucket-body, a form adapted to fit within the bucket-body mounted on said base and normally pressed upwardly, and a reciprocating die-head mounted above the form and adapted to cooperate therewith to bead the bottom edge of the bucket-body and force said form downwardly to form the rim-bead of the bucket-body.

1,679,630. METHOD OF BOAT BUILDING. LAWRENCE ROYS, Moline, Ill. Filed Jan. 16, 1928. Serial No. 246,929. 2 Claims. (Cl. 9—6.)



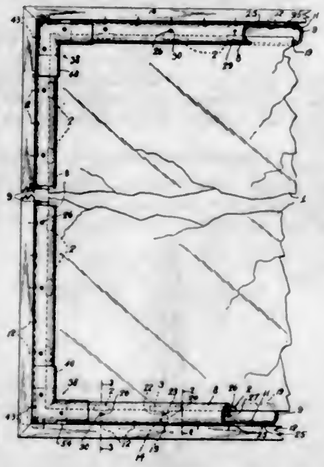
1. That part of the method of building metal boats which consists in first shaping sheet metal into the shape of shell desired, then shaping angles into rigid frame members to conform to the interior sections of the shell, and autogenously uniting the sections of the individual frame members while the same are held in place in the shell.

1,679,631. RECORDING APPARATUS FOR OARSMEN. HAL E. SEAGRAVES, Tacoma, Wash. Filed Sept. 30, 1925. Serial No. 59,602. 12 Claims. (Cl. 265—2.)



1. The combination with an oar-propelled boat of a spring-pressed reciprocating head and a pivoted support therefor connected with one side of the boat, said head adapted to serve as a fulcrum for an oar, means connected with said head for making a record of the power exerted by an oarsman on such oar, and other means for regulating the number of strokes of which a power record is made.

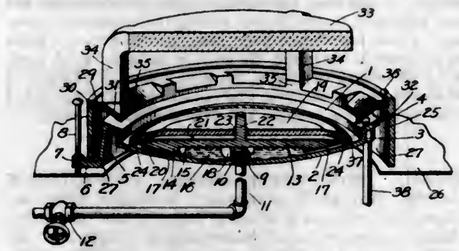
1,679,632. STORE WINDOW. ROBERT A. SCHLEGEL, Williamsport, Pa., assignor to Williamsport Mirror & Glass Company, Williamsport, Pa. Filed Sept. 1, 1926. Serial No. 133,016. 9 Claims. (Cl. 189—75.)



1. A store window comprising a frame and a glass sheet, spaced substantially rigid channel-shaped metal protectors arranged around the edges of the sheet, soft yielding material lining said protectors, and means connected to the frame for clamping the edge portions of the sheet to the frame.

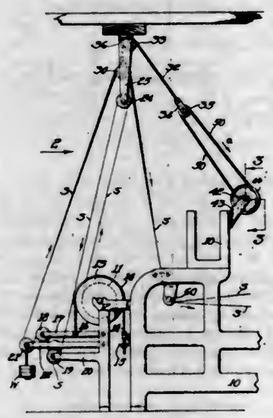
1,679,633. OIL BURNER. WILLIAM L. SIX, Kansas City, Mo. Filed Jan. 21, 1926. Serial No. 82,699. 1 Claim. (Cl. 158—67.)

An oil burner comprising a bowl adapted for containing oil in fluid state, means for delivering oil to the bowl, a plate covering the bowl and spaced therefrom at its periphery to provide a restricted outlet, a heat insulating plate above the covering plate for retarding



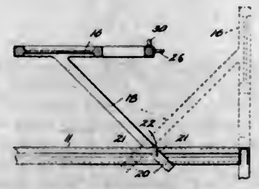
vaporization of contents of the bowl, a wick adjacent the outlet, and means for directing air over the wick to support combustion.

1,679,634. LET-OFF AND TENSION MECHANISM FOR NARROW-WARE LOOMS. CLARENCE A. STEERE, Wickford, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed May 15, 1925. Serial No. 30,569. 4 Claims. (Cl. 139—97.)



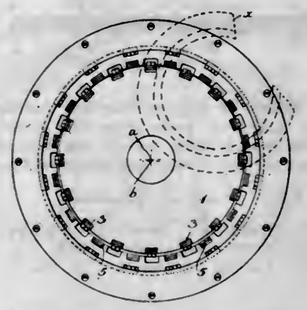
1. A narrow ware loom, having in combination a warp beam containing warp for several warp sections for separate fabrics, let-off mechanism for said warp beam, and manually operable rotative means effective to positively change the path of travel of any selected warp section, and to definitely determine the length of said path between the warp beam and the fell of the fabric for any selected warp section.

1,679,635. INVALID BED. SAMUEL H. STEINBERG and JOHN E. SNYDER, Los Angeles, Calif. Filed July 28, 1926. Serial No. 125,426. 2 Claims. (Cl. 5—332.)



1. In a bed, a bed end, means for normally maintaining the bed end in its normal upright position, a pair of arms fixedly attached to said bed end, one at each side thereof, a pair of channel shaped bed rails, means on said arms disposed to travel in said bed rails whereby said bed end may be converted into a table top by an arcuate movement of the bed end from its vertical to a horizontal position, and means comprising integral inturned ends upon the aforesaid arms cooperating with the rails for maintaining the said bed end in horizontal position.

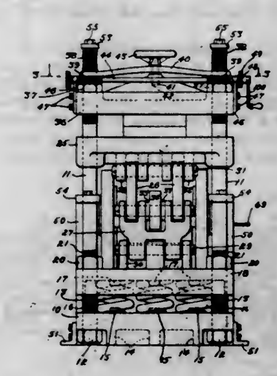
1,679,636. METHOD AND MECHANISM FOR PRODUCING GEARS. HAROLD E. STONEBRAKER, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed May 8, 1925. Serial No. 28,849. 10 Claims. (Cl. 90—4.)



1. The method of producing curved tooth cylindrical and tapered gears consisting in simultaneously forming two adjacent faces by rotating independent cutters about different centers so as to move their tools in conformity to two eccentrically related circles.

5. A gear cutter mechanism for producing cylindrical and tapered gears comprising a plurality of independently supported tools which are so related as to be movable simultaneously in curved paths across the face of a gear blank through a single tooth space and in cutting relation with the adjacent bounding faces of such tooth space, and means for imparting simultaneous movement to said tools.

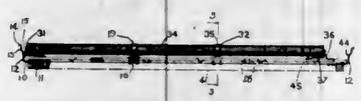
1,679,637. MECHANICAL PRESS. EDWIN A. TERKELSEN, Boston, Mass., assignor to Andrew Terkelsen, Newton, Mass. Filed Feb. 7, 1927. Serial No. 166,335. 16 Claims. (Cl. 25—97.)



1. In a press, in combination, relatively movable press elements, a resiliently supported abutment, mechanism supported upon and reacting against said abutment for raising one of said elements to compress material therebetween with a desired pressure, adjustable means for controlling the uppermost position of the abutment, and

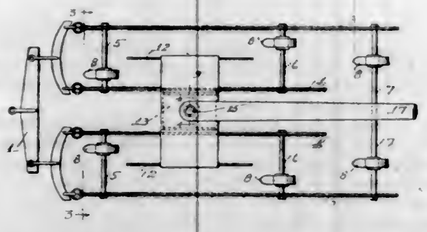
means for operating said mechanism, said abutment being adjusted upon its resilient support to move out of contact with said adjustable controlling means when said mechanism is operated, whereby said abutment may rise in response to volumetric changes in said material to maintain a substantially constant pressure thereon.

1,679,638. LOOM. ARTHUR T. THOMPSON, Hightstown, N. J., assignor to Hightstown Rug Company, Hightstown, N. J., a Corporation of New Jersey. Filed Apr. 29, 1927. Serial No. 187,452. 4 Claims. (Cl. 139—10.)



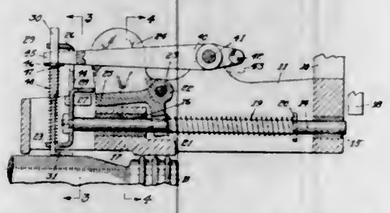
1. The method of weaving relatively narrow rugs and carpets on Axminster looms comprising setting two end loom spools from a single pattern and a shorter central spool from a pattern of relatively narrow width.

1,679,639. HARROW. HENRY B. THOMPSON, Bowne Township, Kent County, Mich. Filed Aug. 30, 1926. Serial No. 132,446. 2 Claims. (Cl. 55—3.)



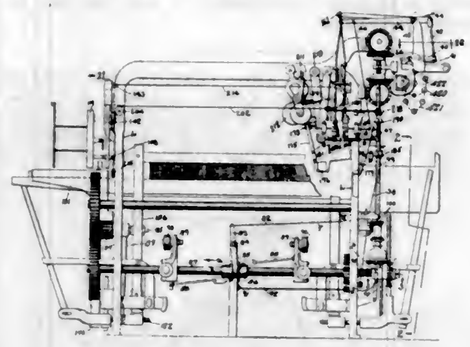
1. In a harrow: a body adapted to be drawn longitudinally, having harrow teeth, and comprising spaced runners supported on the ground and extending in the body's longitudinal direction; a guiding runner between the first-mentioned runners and extending in the body's longitudinal direction, and adapted to engage in the ground in the body's drawn movement, the guiding runner being turnable relatively to the body about a vertical axis.

1,679,640. WEFT DETECTOR IN LOOM TRANSFERRERS. KENNETH J. UNWIN, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 10, 1927. Serial No. 232,425. 5 Claims. (Cl. 139—271.)



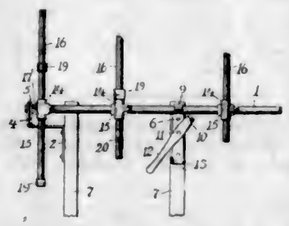
1. In weft detecting mechanism for a loom having a regularly moving transferrer arm provided with an indicating plunger normally in non-indicating position, a detector carrier slidably mounted relatively to the transferrer arm and operatively connected thereto said carrier being movable in a direction substantially parallel to the surface being detected, a detecting element movably mounted in the carrier and held yieldingly in raised position, a depressor element to lower the detecting element relatively to the carrier during the downward movement of the transferrer arm, and means operative after the detector has engaged the surface to be detected tending to move said carrier in the direction of the length of the surface being detected, and movement being prevented when the detector engages a sufficient supply of weft.

1,679,641. WEFT-REPLENISHING PICK-AND-PICK LOOM. WALTER H. WAKEFIELD, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 28, 1925. Serial No. 19,130. 27 Claims. (Cl. 139—232.)



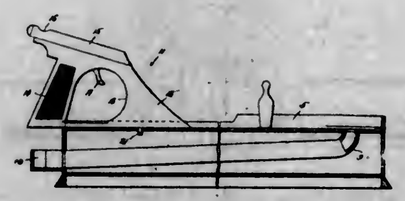
1. A weft replenishing pick and pick loom having, in combination, a lay, a plurality of shuttles, a set of shifting shuttle boxes at each end of the lay, means to pick a shuttle from either end of the lay on any pick, a multicolor magazine at one end of the lay, means to select a weft carrier corresponding in color to the running shuttle, and means to transfer said weft carrier to the running shuttle, said selecting means being operatively associated with the active shuttle in whatever box said shuttle may be positioned and being controlled directly from the same pattern surface which determines the drop box changes.

1,679,642. CANOPY FOR TRUCKS. STANLEY F. WALDEN, Newton, Mass. Filed Dec. 14, 1923. Serial No. 680,617. 4 Claims. (Cl. 296—105.)



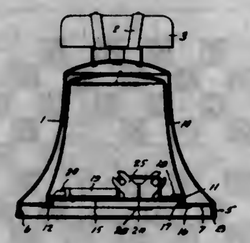
1. A canopy frame for trucks comprising side bars supported by the truck body, socket members each having two sockets at right angles to each other but not in the same plane, one socket of each member being slidable upon a side bar, uprights slidable in the vertical sockets of the said members, and a spring-pressed pin carried by each vertical socket, each vertical socket having integral therewith a U-shaped portion forming a shelf pierced by said pin, each pin having a head larger than and exterior to the associated shelf and carrying a helical spring mounted thereon between the shelf and socket so as to press against another pin carried on said spring-pressed pin, and the uprights having holes for receiving the ends of the spring-pressed pin.

1,679,643. PARLOR BOWLING DEVICE. ALOIS L. BAUMANN, Kellogg, Idaho. Filed Apr. 2, 1927. Serial No. 180,586. 1 Claim. (Cl. 273—38.)



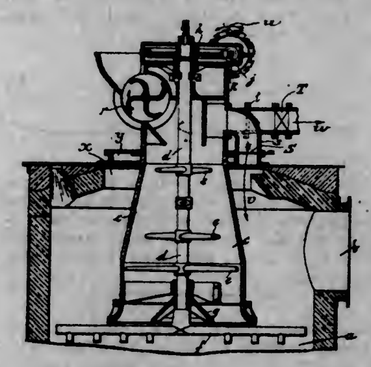
In a bowling game of the character described, an elongated alley way upon which pins are to be arranged at the far end thereof, a ball projecting device for disposition upon the alley at its opposite end and means between the device and said alley way whereby the device may be freely turned so that the balls may be projected in a predetermined direction, said device consisting of a base having an inclined forward surface, a ball receiving barrel supported in inclined position upon the upper edge of the base, and a trigger mechanism operable for releasing a single ball within the barrel when actuated, said trigger being further operable to prevent the release of other balls during the projection of the first mentioned ball.

1,679,644. MONEY BANK. ORLAND F. BAUGHMAN and JOSEPH HABART, Lakewood, Ohio, assignors to The Bankers Savings & Credit System Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 11, 1925. Serial No. 29,394. 3 Claims. (Cl. 232—6.)



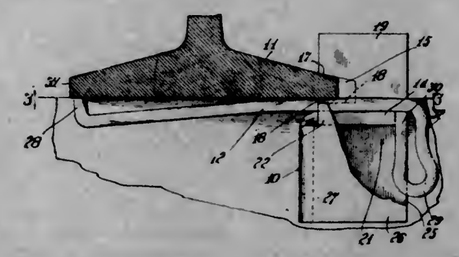
1. In combination, a casing having a wall provided with a comparatively large opening, a money receptacle that is adapted to be inserted into the casing through said opening, said receptacle also having an opening a closure removably secured within the opening of the receptacle and having a peripheral portion overlying said wall of the casing about the opening thereof, said wall and said closure having on the one hand, sockets, and on the other parts designed to enter said sockets when the receptacle is rotated with respect to the casing.

1,679,645. GAS PRODUCER. GEORGE HERBERT BENTLEY and EDMUND GARDNER APPLEBY, Westminster, London, England; Geoffrey Edmund Appleby and William Wallace Hargrove, executors of said Edmund Gardner Appleby, deceased, assignors to said Bentley. Filed May 20, 1925, Serial No. 31,616, and in Great Britain May 22, 1924. 1 Claim. (Cl. 48—86.)



A gas producer comprising in combination, a stationary gas generating chamber having an opening in its top, a stationary separate coal distillation chamber situated partly inside and partly outside the gas generating chamber and having an increasing cross-section for a part of the inner portion, the largest diameter of the distillation chamber being slightly smaller than the said opening, the said distillation chamber carrying an agitator shaft, a mechanism for feeding fuel to the distillation chamber, means interconnecting the fuel feeding mechanism with the agitator shaft so that the speed of the agitation inside the distillation chamber always corresponds to the amount of fuel fed into the distillation chamber, two gas outlet pipes, one leading from the distillation chamber back into the gas generating chamber, and means adapted to close the said opening of the gas generating chamber to the outside and enable at the said time a communication to be established between one of the outlet pipes and the gas generating chamber, as set forth.

1,679,646. RAIL ANCHOR. ROLANDIS A. BLAIR, Fort Wayne, Ind., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 1, 1927. Serial No. 216,840. 17 Claims. (Cl. 238—329.)



1. A rail anchor comprising a rail gripping member for engagement with one flange of a rail base, and a retaining bar formed to bear against the bottom surface of the rail

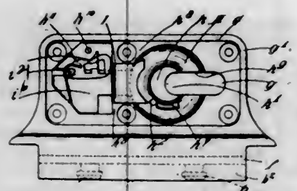
base for a substantial distance transversely of the rail and engaging said gripping member and the opposite edge of the rail base and adapted to yield transversely of the rail to permit said engagement of said bar with the rail base.

1,679,647. LOOM SHUTTLE. JOHN C. BROOKS, Paterson, N. J., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed June 29, 1925. Serial No. 40,362. 2 Claims. (Cl. 139—197.)



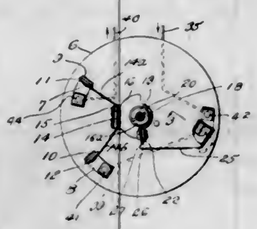
1. A shuttle comprising a body, a shuttle tip at each end, each tip having a stem extending axially into the body and provided with an axial chamber which is open at the end, the end of the tip being tapered and provided with a transverse slot which communicates with the axial chamber.

1,679,648. DETACHABLE LOCK. CHARLES AUGUSTUS CARPENTER, London, England. Filed Aug. 11, 1924, Serial No. 731,391, and in Great Britain Aug. 24, 1923. 6 Claims. (Cl. 70—17.)



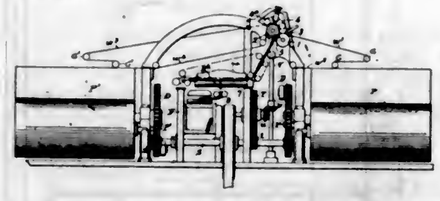
1. A detachable lock comprising a casing having a curved slot formed in one wall, a rotatable ring within the casing, a pin projecting from the ring through the curved slot in the casing and adapted to rotate the ring, and means for covering the curved slot when the parts are in locked position.

1,679,649. THERMOSTATIC CONTROL FOR ELECTRIC SWITCHES. JOEL R. COOK, Cleveland, Ohio, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 3, 1924. Serial No. 723,889. 6 Claims. (Cl. 200—116.)



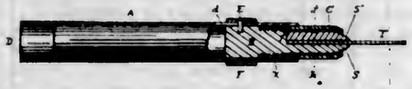
2. In an electric switch the combination of stationary contact members, swingable contact members adapted to bridge the stationary members to close a line, a swingable contact supporting means therefor including an abutment, a spring tending to maintain the supporting means with the contact members in a line opening position and a bimetallic current carrying thermostatic member comprising a permanent part of the line and mounted to form a cantilever strut with the free end acting as a detent against the abutment substantially at right angles with relation to the abutting surface thereof to oppose the swinging movement of the supporting means.

1,679,650. PRINTING PRESS AND FOLDER. JOSEPH L. COX and PAUL F. COX, Battle Creek, Mich. Filed June 6, 1927. Serial No. 196,780. 16 Claims. (Cl. 270—22.)



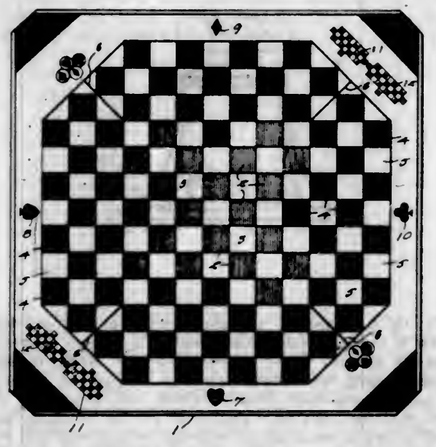
1. In combination, a pair of flat-bed printing presses; a pair of cutting cylinders, one of which is provided with a disappearing web severing device, and means coacting with the cylinders whereby they assemble, sever and deliver the products of said presses.

1,679,651. TOOTHPICK. JOHN H. CROWELL, Tisbury, Mass. Filed Feb. 19, 1925. Serial No. 10,427. 3 Claims. (Cl. 132—90.)



1. In a tooth pick, the combination, with a case, of a longitudinally movable pick holder located therein, and composed of one integral jaw, and one detached movable jaw, and threaded clamping sleeve for closing said jaws, whereby the pick is securely held, against accidental detachment and can be projected for use and housed for preservation, substantially as set forth.

1,679,652. CHECKER-GAME BOARD. JAMES M. DALRYMPLE, Tulsa, Okla. Filed Jan. 8, 1927. Serial No. 159,866. 2 Claims. (Cl. 273—131.)



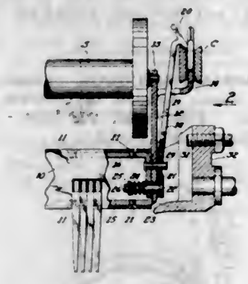
1. A game board having a substantially square sub-playing field consisting of forty-five alternately arranged areas of different colors, and substantially oblong home playing fields bordering the sub-playing field and each consisting of twenty-four alternately arranged areas of different colors, one area of each home playing field being arranged in the adjacent border of the sub-playing field and centrally between the ends of the border.

1,679,653. HAIR-WAVING DEVICE. MONNIE L. EBERHART, New Lisbon, Wis. Filed Aug. 18, 1927. Serial No. 213,791. 6 Claims. (Cl. 132—38.)



1. In a device of the class defined, the combination with a pair of combs, of a coupler in the form of an arch extending transversely over the combs and attached thereto.

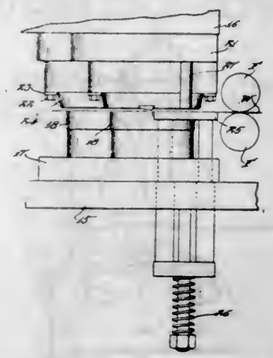
1,679,654. TUBE-FRAME BRACKET. GEORGE P. FINDLAY, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 18, 1926. Serial No. 155,760. 4 Claims. (Cl. 139—10.)



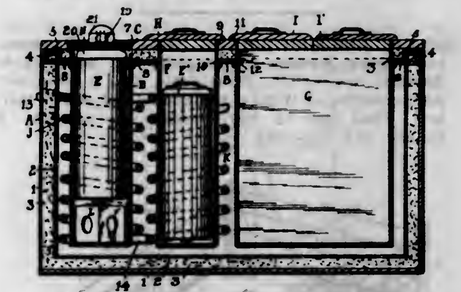
1. In a tube frame, a bracket and a chain-engaging hook mounted on said bracket, said hook having a pivot stud with its axis disposed perpendicular to the line of movement of the chain and extending through the end wall of the bracket, and a coil spring encircling said stud within said bracket and held under compression on said stud.

1,679,655. WEB-CUTTING MECHANISM. BERNARD M. FINE, Philadelphia, Pa., assignor to Sanitary Products Corporation of America, Philadelphia, Pa., a Corporation of Virginia. Filed Jan. 19, 1927. Serial No. 162,084. 4 Claims. (Cl. 113—42.)

1. In a machine of the character described, in combination, intermittently operating means for feeding a web of sheet material, a pair of relatively movable cooperating members for punching blanks from said web, means for operating said members while said web is held stationary by said feeding means, and means for cutting said web transversely at points where the latter is not pierced by the holes from which said blanks are punched to connect said holes and the edges of said web, said cutting means operating before said web has been displaced substantially from the plane in which it normally travels.

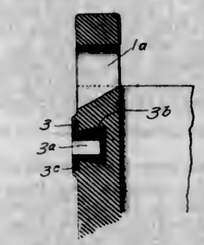


1,679,656. COMBINATION FREEZER AND REFRIGERATOR CABINET. RALPH W. GEARHART, Clearfield, Pa., assignor to Gearhart Sales Cabinet Co. Inc., Clearfield, Pa., a Corporation of Delaware. Filed May 22, 1925. Serial No. 32,066. 3 Claims. (Cl. 62—101.)



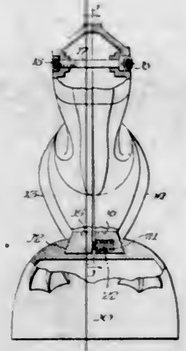
1. In mechanism for freezing ice cream and similar substances, the combination of a tank adapted to contain a bath of brine, a removable top closure for said tank, a closed bottom container carried by said top closure and depending within said bath, a pipe coil in said tank, through which a refrigerating agent is caused to travel, said coil being disposed in cylindrical form about said container, and a freezer including a freezer-can rotatably and removably mounted in said container.

1,679,657. BATTERY BOX. WARREN E. GLANCY, Waltham, Mass. Filed Mar. 15, 1927. Serial No. 175,590. 3 Claims. (Cl. 220—91.)



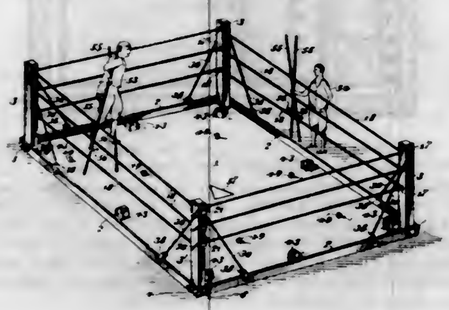
1. A battery box of molded asphaltic composition having embedded in each end wall thereof a bail receiving grommet composed of hard rubber and fiber.

1,679,658. TOY BANK. DOUGLAS HALL, Chicago, Ill. Filed Apr. 14, 1927. Serial No. 183,661. 2 Claims. (Cl. 46—36.)



1. In a device of the class described, a base providing a coin receptacle and providing a recess in its upper face, a body composed of two parts the lower portions of which are adapted to enter said recess, a tie loosely securing the upper portions of said parts together, and a spring serving to force the lower portions of said parts from each other so as to cause them to bind in said recess.

1,679,659. LAWN POOL GAME. WILLIAM S. HASSKARL and MORRIS MARDER, Philadelphia, Pa., assignors to Hasskarl Novelty Co., Philadelphia, Pa., a Copartnership consisting of William S. Hasskarl and Morris Marder. Filed May 12, 1927. Serial No. 190,673. 2 Claims. (Cl. 273—85.)



1. A game apparatus comprising a plane surface bounded by a flexible fence, said surface bearing a central storage field for a set of play-balls, each ball bearing distinguishing indicia, a series of ball-receiving pockets disposed around the plane surface within the confines of the fence, and means whereby players are mounted to play previously announced balls, said means comprising stilts adapted for hitting and propelling said balls by single shots into either of the pockets aforesaid.

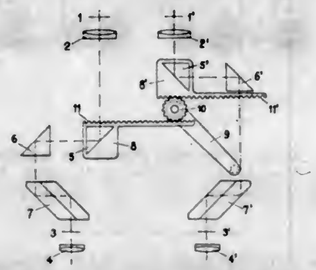
1,679,660. PROCESS FOR MAKING TUBULAR FARINACEOUS ROLLS. CHARLES RAY HASKELL, Youngstown, N. Y., assignor to Haskell Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed June 21, 1926. Serial No. 117,408. 2 Claims. (Cl. 107—54.)

2. A process for making tubular bread rolls, consisting in first forming through rolling pressure between two surfaces one of which is that of a core roller and the other that of a support a lump of dough about said core roller into tubular form and uniting the longitudinal joint thereof to hold the roll in form, second raising the dough



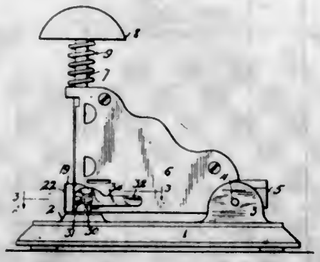
while suspended from said core roller, third baking the roll while suspended from said core roller, and fourth removing the roll from said core roller.

1,679,661. STEREOSCOPIC MEASURING INSTRUMENT. REINHARD HUGERSHOFF, Dresden, Germany. Filed June 1, 1927, Serial No. 195,822, and in Germany Oct. 11, 1926. 3 Claims. (Cl. 88—29.)



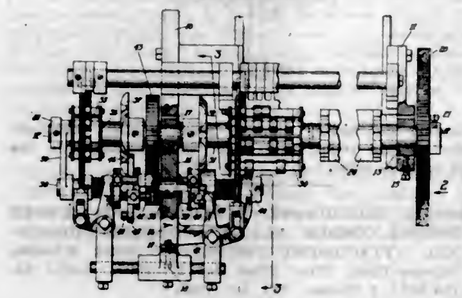
1. A double microscope for stereoscopic measuring instruments, comprising in combination two reflecting systems arranged in the paths of rays of the two halves of the double microscope, each of said reflecting systems being adapted to coact with either of the two halves of the double microscope and means for changing over the said reflecting systems from the one path of rays into the other path of rays and vice versa, as and for the purpose set forth.

1,679,662. STAPLING MACHINE. BERTHOLD JAHN, New Britain, Conn., assignor to Gertrude H. Heyn, Westport, Conn. Filed Sept. 22, 1926. Serial No. 136,928. 2 Claims. (Cl. 1—2.3.)



1. In a stapling machine in which a preformed strip of staples is fed forwardly, the combination with a frame, a cutter bar for guiding the strip of staples to the cutting position, said frame and cutter bar being fixed in relation to each other, a plunger for severing and driving the end staple of the strip and movable at right angles to the cutter bar, a raceway for guiding the severed staple formed partly by said frame, and a front member, and means for holding said front member on said frame, including pins on the frame adapted to be received in slots in said front member, and a lever pivoted to said front member and adapted to be hooked over one of said pins for locking said front member upon said casing.

1,679,663. DOBBY MULTIPLIER. VICTOR H. JENNINGS and HERBERT H. WATSON, Worcester, Mass., assignors to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed June 21, 1926. Serial No. 117,249. 4 Claims. (Cl. 139—326.)

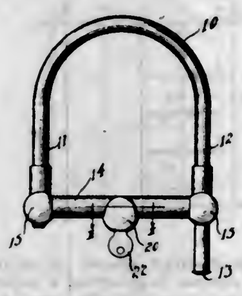


1. In a dobby multiplier, a frame, a cylinder shaft, a bearing for one end of said shaft adjustably mounted in said frame, a pinion shaft disposed parallel to said cylinder shaft, and a bearing member provided with a second bearing for said cylinder shaft and with a bearing for said pinion shaft, said bearings being fixed in definite spaced relation and said bearing member being adjustable as a unit in said frame.

1,679,664. ALKYL CUMARANES AND PROCESS OF MAKING SAME. HANS JORDAN, Berlin-Steglitz, Germany, assignor to the Firm: Chemische Fabrik auf Actien vorm. E. Schering, Berlin, Germany. Filed June 20, 1927, Serial No. 200,291, and in Germany June 29, 1926. 4 Claims. (Cl. 260—54.)

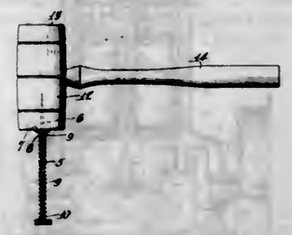
1. The process of producing alkyl cumaranes comprising heating products of condensation of alkyl phenols and a ketone to about 300–310° C. to effect decomposition, subjecting the products of decomposition to fractional distillation, and collecting the alkyl cumaranes.

1,679,665. SPARE-TIRE LOCK. JOHN JUNKUNC, Chicago, Ill. Filed Jan. 27, 1927. Serial No. 163,880. 4 Claims. (Cl. 70—90.)



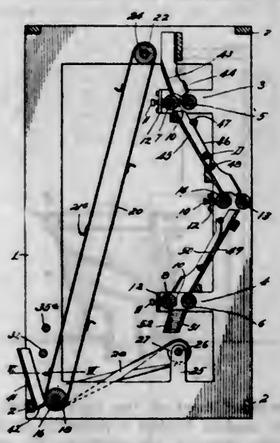
1. A tire lock comprising a hasp portion adapted to encircle the tire cross section and having parallel legs with a series of notches in the inner surfaces thereof, a cross bar having apertures to admit the legs of said hasp, locking means carried by said cross bar comprising members adapted to enter the notches in said legs, a lock, means actuated by said lock adapted to hold said members in extended position in said notches, and yielding means positioned between the first mentioned members and the means holding them in extended position adapted to urge said members into said notches when said lock is released.

1,679,666. ICE PICK AND GUARD. SAMUEL M. KASS, Philadelphia, Pa. Filed Apr. 5, 1926. Serial No. 99,811. 2 Claims. (Cl. 83—62.)



1. A single prong ice pick, a head upon which the pick is mounted, a handle for the head extending transversely to the length of the pick and a spiral spring guard about the pick normally extending beyond the point of the pick and compressible longitudinally of the pick to expose the point of the pick with a blow upon the guard and to apply the pick to the ice.

1,679,667. UNIFORM-LOAF-MAKING MACHINE. WILLIAM H. KENNAN, Chicago, Ill. Filed Jan. 11, 1926. Serial No. 80,461. 1 Claim. (Cl. 107—9.)

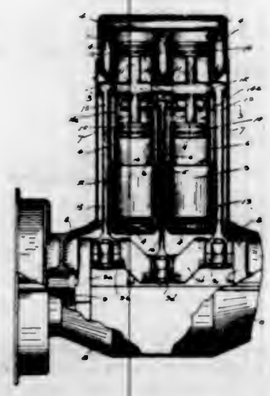


In a dough working machine, a framework, a plurality of driven pressure rollers arranged in horizontally staggered vertical columns, every other pair of rollers being in vertical alinement, chutes connecting each adjacent pair of compression rollers, retards in each of said chutes, means to deliver dough to the first pair of compression rollers, and loaf molding means for receiving the dough from the last pair of compression rollers.

1,679,668. DOUBLE-ACTING ENGINE. CHARLES ELWOOD KEAS, Los Angeles, Calif. Filed Feb. 21, 1923. Serial No. 620,478. 11 Claims. (Cl. 123—54.)

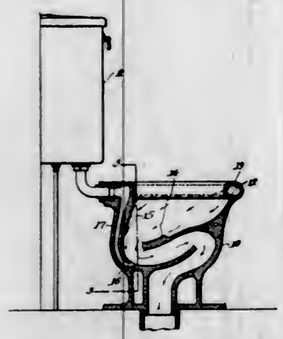
7. In an engine of the character described, two cylinders side by side with their both ends closed and having slots through their sides, sleeves in said cylinders

to cover said slots, pistons in said sleeves in said cylinders, a crank outside of said cylinders, a connecting rod from said crank and connected through the slots in said cylinders to said pistons, a connecting rod from said



crank to said sleeves for moving them with said pistons, and means whereby the sleeves are moved in the same direction a less distance and at a slower speed than said pistons, substantially as described.

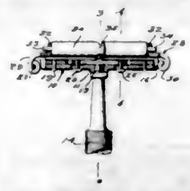
1,679,669. SANITARY WATER-CLOSET. ALBERT H. KENNEDY, Rockport, Ind. Filed Jan. 4, 1926. Serial No. 79,213. 5 Claims. (Cl. 5—69.)



1. A water-closet bowl of the syphon trap type comprising a rim conduit having a plurality of downwardly and rearwardly directed jet openings all arranged to discharge with substantially full force along the rear wall of the bowl at the throat and baffle means on the bottom of the bowl to prevent the streams discharged from the front of the rim from flowing across the throat, said baffle means being arranged to deflect the jets to the sides of the throat and against the rear wall thereof.

1,679,670. SAFETY RAZOR. JOHN LAURENCE KING, New York, N. Y., assignor to Recalaxion Razor Company, Incorporated, a Corporation of New York. Filed Sept. 29, 1925. Serial No. 59,401. 6 Claims. (Cl. 30—12.)

1. A safety razor comprising a guard having a slot therein, an actuating member slidably mounted in said slot and provided with an upstanding finger, a blade mounted on said guard and provided with an opening through which said finger extends, a clamp arranged above said guard, a roller rotatably supported by said clamp and provided intermediate its ends with a sur-



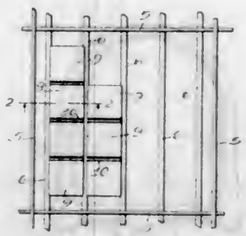
rounding slot having different portions offset longitudinally of said roller, said finger being arranged in the slot in said roller.

1,679,671. ILLUMINATED CITY NAME AND LICENSE DOUBLE-NUMBER PLATE AND DIRECTION-SIGNAL ATTACHMENT THEREFOR. JOHN KLAMER, Stevens Point, Wis. Filed May 27, 1927. Serial No. 194,655. 4 Claims. (Cl. 40—132.)



1. In combination with a vehicle tail light housing, a plate mounted on the bottom of said housing comprising front and rear downwardly depending extensions, a license plate having stenciled numerals therein mounted on said front extension, straps pivotally attached to the rear extension of said plate, an extensible reflector attached to said straps, an electric light bulb mounted on said rear extension adapted to emit light on said reflector, and adjustable means attached to the bottom of said reflector at one end and to the bottom of said license plate at the other end adapted to retain said reflector at a desired inclination to said license plate for directing rays of light from said electric light bulb through the stenciled numerals of said license plate.

1,679,672. BUILDING CONSTRUCTION. SAMUEL KLEIN, Chicago, Ill. Filed Feb. 4, 1927. Serial No. 165,917. 2 Claims. (Cl. 25—131.5.)

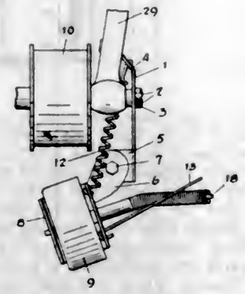


1. The herein described process of making concrete flooring, which consists in providing a series of parallel rows of soffits, placing on said soffits rows of pans spaced equally apart from others in the row and from similar pans in adjacent rows, in closing the ends of the pans in any row by U-shaped soffits, in placing a layer of concrete over the pans and in the spaces therebetween, and subsequently removing the pans and soffits, whereby a floor having beams running at right angles to each other is formed.

1,679,673. MAKING FORMALDEHYDE FROM METHYLENE CHLORIDE. ERICH KRAUSE and KOLOMAN RÓKA, Constance, Germany, assignors to the Firm of Holzverkohlungs-Industrie Aktien-Gesellschaft, Constance, Baden, Germany, a Corporation of Germany. Filed Oct. 23, 1924, Serial No. 745,493, and in Austria Sept. 17, 1921. 4 Claims. (Cl. 260—138.)

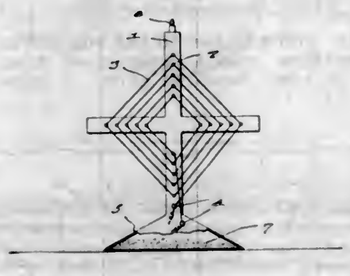
1. A method for making formaldehyde from methylene chloride which consists in heating methylene chloride in the presence of water in a closed vessel to temperatures of about 120 to 170° C. and adding acid-binding materials, which are capable of reacting with formaldehyde, gradually in such quantities, that alkaline reaction of the reaction mixture is avoided.

1,679,674. WINDSHIELD-WIPER-OPERATING MECHANISM. GEORGE H. LOBER, Toledo, Ohio, assignor to The Beck-Frost Corporation, Detroit, Mich., a Corporation of Michigan. Filed June 15, 1925. Serial No. 37,382. 3 Claims. (Cl. 74—21.)



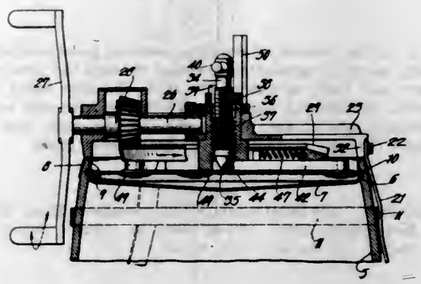
3. In a mechanism for operating the windshield wiper, a bracket connected to the fan supporting arm of an automobile, and extending to a point below the fan belt pulley, an arm pivotally supported on the bracket, a spool rotatably supported on the pivoted arm and located well below the fan belt pulley, a spring extending from the bracket to the pivoted arm and interconnecting the bracket and the pivoted arm for elastically pressing the spool against the fan belt at a point below the fan belt pulley, a wire connected to the pivoted arm for moving the arm on its pivot, and means for securing the wire and the arm in a position to which they may be moved.

1,679,675. ANTENNA SUPPORT. MANUEL L. LUJAN, Los Angeles, Calif. Filed Dec. 4, 1924. Serial No. 753,905. 1 Claim. (Cl. 250—33.)



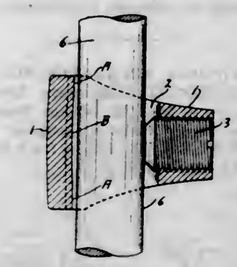
An antenna support, comprising a hollow flexible member formed to provide a hollow supporting base and a hollow supporting frame mounted thereon, the hollow supporting frame and base communicating, an inflating valve for the hollow flexible member, a filler removably inserted through said valved opening to provide a center of gravity in said base portion for said antenna support, the member being adapted to have the remaining portion filled with a suitable substance to retain the member in substantially rigid extended relation, and means on the supporting frame for receiving and mounting an antenna winding therein.

1,679,676. BARREL-HEAD-SEATING MACHINE. JAMES MIELE, Brooklyn, N. Y., assignor of one-fourth to Michael Miele and one-fourth to Thomas Miele, Brooklyn, N. Y. Filed Aug. 23, 1926. Serial No. 131,005. 11 Claims. (Cl. 153—1.)



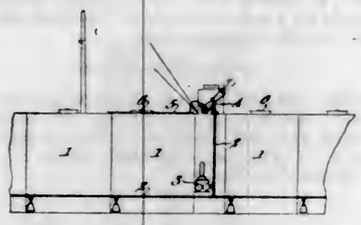
1. A barrel head seating machine comprising a plurality of revolvable radially movable arms adapted to form a ridge in a barrel head whereby the same is securely seated in the end of a barrel, and means for adjustably locking the machine to the end of the barrel.

1,679,677. GROUND-WIRE CONNECTER. WINFORD GLADSTONE MILNE, Hamilton, Ontario, Canada, assignor to The N. Slater Company, Limited, Hamilton, Canada. Filed Nov. 21, 1925. Serial No. 70,598. 1 Claim. (Cl. 173—273.)



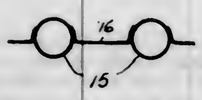
In a ground wire connecter, the combination with a ground rod and a ground wire to be connected therewith, of a clamp comprising a body portion having an orifice extending thereinto, into which the ground rod is adapted to loosely extend, a screw extending through one side of the body portion and adapted to project into said orifice to engage the ground rod, the axis of said screw being perpendicular to the axis of the aforementioned orifice, the wall of the orifice at the side remote from the screen formed with a longitudinal recess adapted to receive the ground wire, the depth of said recess being less than the diameter of the ground wire, said recess being straight longitudinally adjacent to each end thereof and concave longitudinally over the central portion of its length.

1,679,678. VENTILATING DEVICE FOR TANK VESSELS. JAKOB MULDER and DIRK CHRISTIAAN ENDERT, Jr., Rotterdam, Netherlands. Filed Sept. 24, 1924, Serial No. 739,747, and in the Netherlands Sept. 28, 1923. 4 Claims. (Cl. 98—43.)



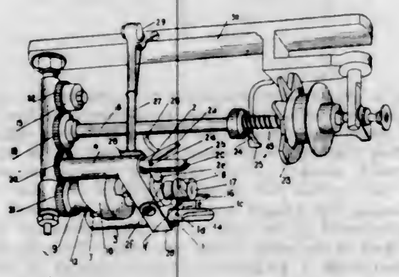
1. In the process of removing residual gases and liquids from tanks by exhausting the same through the permanent duct and pump system of the tank, the step which comprises establishing the suction in series with and at the exhaust side of the pump, whereby the pump and the ducts external thereof may be freed from gases.

1,679,679. SWIMMING GLOVE. STRANGE EARL NEILL, Bakersfield, Calif. Filed Mar. 17, 1926. Serial No. 95,242. 1 Claim. (Cl. 9—21.)



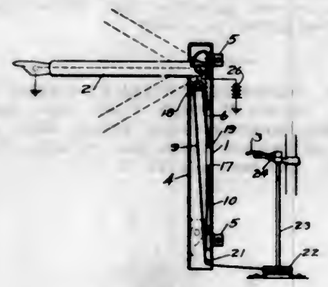
A swimming device comprising a glove formed of flexible rubber, and sheets of flexible rubber spanning adjacent finger stalls of the glove, said sheets being of substantially triangular contour so that when the stalls are spread apart the sheets provide intervening webs, the sheets having strip portions along the lengths of their edges confronting adjacent stalls, forming continuations of and projecting laterally to one side only of the sheets, the said portions providing attaching surfaces by means of which the sheets are secured to the stalls.

1,679,680. STRIPPING APPARATUS FOR CIRCULAR HOSIERY MACHINES. FORTUNATO NEVEUX, Rivoli, Italy, assignor to O. M. I. M. Officina Meccanica Industria Maglieria, Turin, Italy, a Company. Filed Mar. 9, 1923, Serial No. 624,005, and in Italy Mar. 17, 1922. 5 Claims. (Cl. 66—140.)



1. In a circular knitting machine a circular needle row, a yarn-changing device comprising two pairs of shears, one of which brings the inoperative yarn to the needles and retires while the other cuts the operative yarn and retains it, the respective functions of the shears being reversed on the next change of yarn, and means for rotating said pairs of shears about in axis transverse to said needle row whereby each pair of shears is disposed first above and then below said row.

1,679,681. AUTO SIGNAL. ACEL PARKE and JOE R. PARKE, Seattle, Wash. Filed Jan. 20, 1927. Serial No. 162,401. 1 Claim. (Cl. 116—54.)

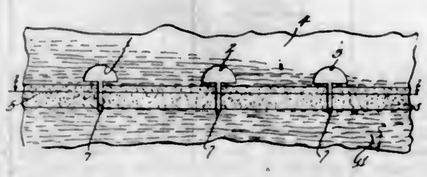


In a signal of the class described, a casing, an arm pivotally mounted in the upper end of the casing, a gear segment on the inner end of the arm, a rack meshing with the said gear segment and slidably mounted in the casing, a pulley in the upper end of the said casing, a cord passing over the pulley and attached to the rack, the said cord passing from the pulley and out of the lower end of the casing, other pulleys in the lower end of the casing over which the cord passes, a pulley located at a remote point around which the said cord also passes, the said cord passing from the said pulley back to the said casing, into the lower end thereof and attached to the lower end of the rack, and suitable means for rotating the pulley which is located at a remote point to move the cords to move the rack and operate the arm.

1,679,682. METHOD OF PULPING WOOD. FRANCIS G. RAWLING, Knoxville, Tenn. Filed July 21, 1926. Serial No. 124,104. 6 Claims. (Cl. 92—9.)

1. The proces of treating wood fibrous material to convert it into pulp which process includes treating wood chips with an aqueous solution of sodium sulphite and the sodium salt of a weakly ionized polybasic acid at a temperature not lower than 100° C. and not above 150° C., removing the unabsorbed chemical liquor from the wood thus treated, and subsequently treating the wood residue with sulphur dioxide and at a temperature not below 100° C. and not above 160° C.

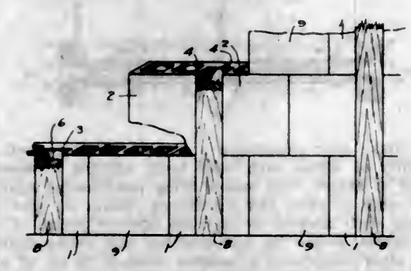
1,679,683. PROCESS AND MEANS FOR EXTRACTING PETROLEUM. JOHN L. RICH, Ottawa, Kans. Filed Jan. 25, 1926. Serial No. 83,731. 7 Claims. (Cl. 262—1.)



1. The herein described process of extracting petroleum which consists in running tunnels through the stratum adjacent to the petroleum-bearing stratum, extending

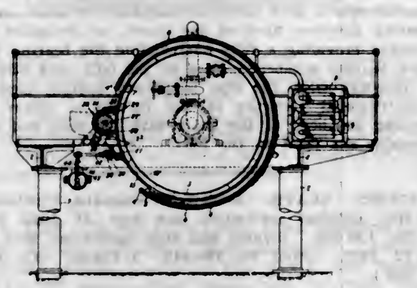
channels from the tunnels into the petroleum-bearing stratum, blockading the ends of certain of the tunnels and their associated channels, forcing fluid under pressure into the blockaded tunnels, whereby the petroleum will be forced into the unblocked channels, removing the petroleum from the last named channels, and pumping the pressure fluid directly into the blocked tunnels.

1,679,684. BUILDING TILE AND WALL CONSTRUCTION. TONY ROTA, Seattle, Wash. Filed Sept. 30, 1926. Serial No. 138,632. 1 Claim. (Cl. 72—41.)



In wall construction, hollow building blocks, vertical struts in combination with the blocks, said blocks having vertical grooves in the sides and edges thereof, the grooves in some of the blocks being of sufficient size to accommodate a stud with the long side of the stud parallel to the longitudinal plane of the block and the short side of the stud therefor extending into the block, and the grooves in other of the blocks being of a sufficient size to accommodate one-half of a stud, the rear walls of the grooves in the blocks being provided with openings through which the blocks may be held to the studs, and said studs being adaptable to fit into the grooves of the blocks with each consecutive row of blocks staggered in relation to the preceding row.

1,679,685. DEVICE FOR THE COOLING OF FATTY EMULSIONS OR THE LIKE. WILHELM GOTTHILF SCHRÖDER, Arfrade, near Lubeck, Germany. Filed Oct. 20, 1926, Serial No. 143,005, and in Germany Oct. 20, 1925. 14 Claims. (Cl. 257—96.)



2. A device for the cooling of fatty emulsions or the like comprising a jacketed, revolving, externally and internally cooled drum, a receiver to apply the material to be cooled to the drum, means for the removal of the solidified material from the drum, means for blowing a cooling medium in the form of air into the space between the cooling drum and the jacket against the direction of rotation of the drum, a pump which forces in the emulsion at one end of the charge receiver, a return pipe connecting the other end of the receiver with the suction side of the pump, and stirring mechanism in the receiver, which maintains the emulsion in constant circulation between the cold-drum surface and the heated receiver walls.

1,679,686. PULL-ROD CONNECTION. PETER E. SECKLER, Tulsa, Okla. Filed Apr. 2, 1927. Serial No. 180,593. 7 Claims. (Cl. 74—5.)



1. A device of the character described comprising a bed plate adapted to be arranged adjacent and parallel to a pull rod, a stationary cross-head carried by said bed plate, means carried by said stationary cross-head and adapted to releasably engage the pull rod, a reciprocating cross-head carried by said bed plate, and means carried by said reciprocating cross-head and adapted to releasably engage the pull rod.

1,679,687. MEANS FOR ATTACHING SHOE BUCKLES. WILLIS S. SHAFT, Faribault, Minn., assignor to Shaft-Pierce Shoe Company, Faribault, Minn. Filed Jan. 25, 1927. Serial No. 163,494. 3 Claims. (Cl. 36—11.)

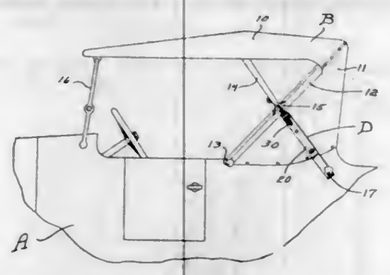


1. The combination with a shoe including an upper and a buckle therefor having middle and end bars, of means for retaining the buckle on the upper including a strap having a transverse slot therein at one end folded about one of said bars with the end remote from the slot threaded through the slot, said end constituting a single attaching tab and means connecting the tab with the upper.

1,679,688. VEHICLE TOP BRACE. CHESTER L. SHOBE, Peru, Kans. Filed June 11, 1926. Serial No. 115,320. 3 Claims. (Cl. 296—120.)

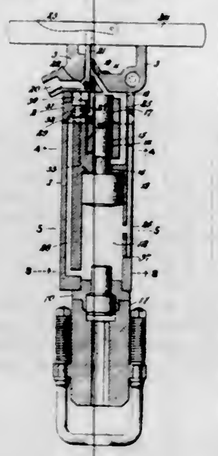
1. In combination with a vehicle embodying a body, and a top construction embodying a rear bow having its arms pivotally connected to the body and a stay bow

for pivotal connection with the intermediate portion of the arm of said rear bow, of a brace for the top construction pivotally connected at one end to the body rear-



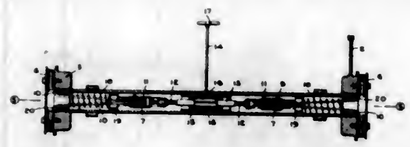
wardly of the pivotal connection of the rear bow arms and having a right angular pivot arm at its opposite end serving to pivotally connect the rear and stay bow.

1,679,689. PNEUMATIC HAMMER. GEORGE WALTER SMITH, Ottumwa, Iowa, assignor to Hardsocg Wonder Drill Company, Ottumwa, Iowa, a Corporation of Iowa. Filed Mar. 19, 1925. Serial No. 16,690. 2 Claims. (Cl. 121—18.)



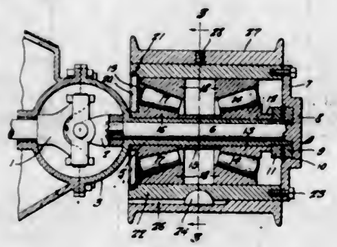
1. In a pneumatic hammer, a cylinder having a forward portion of comparatively large diameter and a rearward portion of comparatively small diameter, a piston having a head sliding in the larger forward portion of the cylinder, a shank sliding in the smaller rearward portion of the cylinder, and a neck connecting said head and shank and having a diameter less than either, means for constantly admitting fluid under pressure to the rear end of the rearward portion of the cylinder, means for intermittently admitting said fluid to the rearward end of the larger forward portion of the cylinder, a passage leading from the constant pressure end of the cylinder to the opposite end and opening into the larger forward portion of the cylinder, a valve for controlling said passage, a valve chest for said valve, a port leading from the smaller portion of the cylinder to one end of the valve chest but independent of said passage and uncovered by the shank of the piston toward the end of its forward stroke to admit fluid under pressure to open said valve, another port leading from the larger forward portion of the cylinder to the other end of the valve chest and serving to admit fluid to close said valve toward the conclusion of the rearward stroke, a bleed hole leading from the first mentioned port and serving to release the fluid from beneath the valve head while the valve is being closed, and an exhaust port leading from the larger forward end of the cylinder and controlled by the head of the piston.

1,679,690. BRAKE GEAR FOR MOTOR VEHICLES. SYDNEY SMITH, Chobham, England, assignor of one-half to Selwyn Francis Edge, Thames Ditton, England. Filed May 19, 1927, Serial No. 192,720, and in Great Britain June 3, 1926. 8 Claims. (Cl. 188—204.)



1. Brake gear comprising a single operating shaft, a plurality of cables, each cable being adapted to operate a pair of brakes, said brakes being compensated against each other in pairs and collectively, means on said operating shaft adapted to vary the effective length of the said cables, means for compensating said cables against each other comprising a member common to all of said cables and slidable longitudinally of said operating shaft and with which each of the said cables is associated.

1,679,691. PULLEY. WILLIAM P. SMITH, Capron, Va. Filed July 18, 1927. Serial No. 206,606. 3 Claims. (Cl. 308—15.)



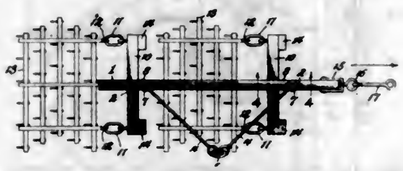
1. In a device for the purpose set forth, a shaft designed to be driven by a motor and having an outer headed end, a fixed sleeve surrounding the shaft, spaced bearing members fixed on the sleeve, an elongated ring member providing a felly surrounding the bearing members, bearing members carried by the felly, and affording a race-way with the first mentioned bearing members, anti-frictional elements in the race-ways, means connecting the head of the shaft with the felly and a removable rim fixed on the felly.

1,679,692. GRATE. JOSEPH S. STOGDALE, Cumberland, Md. Original application filed Sept. 21, 1926, Serial No. 136,826. Divided and this application filed May 12, 1927. Serial No. 190,843. 1 Claim. (Cl. 126—168.)



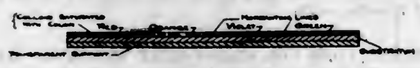
A grate of the character described comprising an open rectangular frame having side and end members of equal height, said end members being recessed at their inner upper edges to provide horizontal supporting surfaces below the upper plane of the frame, spaced bridge members connecting the sides of the frame and having their upper edges disposed in the plane of said horizontal surfaces and a plurality of grate sections arranged in the frame in end to end relation and provided with terminal flanges supported by said horizontal supporting surfaces and the upper edges of the bridge members.

1,679,693. DRAFT APPLIANCE. VICTOR J. TEGELER, Hopkinton, Iowa. Filed Nov. 23, 1925. Serial No. 70,895. 1 Claim. (Cl. 55—84.)



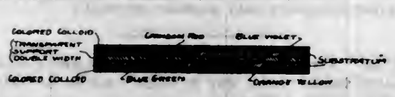
A draft appliance for harrows or the like comprising a main draft beam, a plurality of spaced supplemental beams flexibly hinged at spaced points to the rear edge of the main beam, terminal spacing means carried by the supplemental beams to limit their rocking movement in rear of the main beam, links flexibly connected to the front of the draft beam and having their free ends connected to a central ring, flexible link connections extending rearwardly from the terminals of the supplemental bars for detachable connection with harrows to draw the latter in active position over the ground, and a swivelled clevis mounted on one end of the main draft beam for connection to the source of power whereby, when the said main beam is drawn longitudinally the same will rock into edgewise position and the supplemental beams together with the harrows will swing around beneath the same and trail one in front of the other, the main beam then assuming a position at right angles to the original position and across the tops of the supplemental beams.

1,679,694. CINEMATOGRAPH AND PHOTOGRAPHIC COLOR FILM MATERIAL. JOHN EDWARD THORNTON, West Hampstead, London, England. Filed Oct. 3, 1925, Serial No. 60,349, and in Great Britain Nov. 3, 1924. 3 Claims. (Cl. 95—2.)



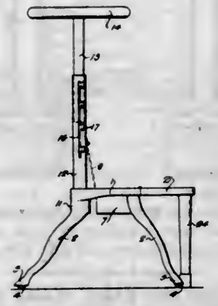
1. A multi-colored positive film-material comprising a web of cellulosic base material, an adhesive substratum over the entire width of said web, an even layer of colloid over the entire width of the substratum, a plurality of narrow border stripes at intervals on said layer of colloid, and a plurality of colored stripes absorbed in the colloid layer between said border stripes.

1,679,695. CINEMATOGRAPH FILM MATERIAL. JOHN EDWARD THORNTON, West Hampstead, London, England. Original application filed May 5, 1924, Serial No. 711,255, and in Great Britain May 18, 1923. Divided and this application filed Oct. 31, 1925. Serial No. 66,050. 4 Claims. (Cl. 95—2.)



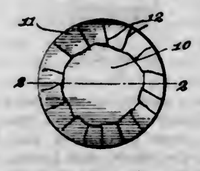
1. For the production of multi-color pictures in which four images of different colors are formed upon a single transparent support of double width by printing alternately upon the two sides by two separate succeeding exposures, then developing, finishing, severing into two parts and subsequently superimposing and cementing the two parts; a multi-color cinematograph or other positive film-material, comprising a strip of transparent waterproof support of double width and half thickness, a first layer of colored colloid in two parallel differently-colored stripes upon one side of the support and a second layer of colored colloid in two parallel differently-colored stripes upon the other side of the support, and an adhesive substratum layer between each colloid layer and its support without a light obstructing layer.

1,679,696. STOOL. GERRIT VAN DAAM, Kenmore, N. Y. Filed June 27, 1927. Serial No. 201,769. 2 Claims. (Cl. 228—2.)



1. In a device of the character described, the combination of a foot rest stool and a shoe cleaning stand, a frame, a plurality of legs extending downwardly therefrom, seat supporting means extending upwardly from one side of the frame, a shoe cleaning implement containing box positioned interiorly of the frame, the lid of the box forming in conjunction with the frame part of the foot rest of the stool, and a shoe cleaning stand foot rest portion pivotally mounted upon the frame and adapted to normally lie in the same plane as the frame and box lid foot rest portion to constitute in combination therewith an extended foot rest for the stool and a shoe cleaning stand.

1,679,697. CLOSURE CAP. SEVERIN WESTBY, Seattle, Wash. Filed Sept. 24, 1926. Serial No. 137,543. 3 Claims. (Cl. 215—51.)

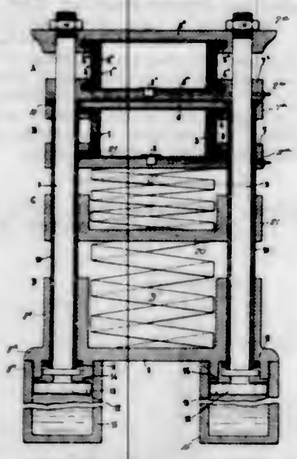


1. A closure cap constructed of one piece of sheet material of circular formation and having the portion adjacent the periphery thereof turned over on the body portion so as to increase the thickness of said cap at the horizontal circular marginal edge thereof.

1,679,698. SHOCK ABSORBER WORKING WITH PROGRESSIVE COMPRESSION. HUBERT JULES WEYDERT, Levallois-Perret, France. Filed Nov. 23, 1923, Serial No. 676,618, and in France Dec. 2, 1922. 2 Claims. (Cl. 267—65.)

1. A shock absorber comprising a base, a plurality of superposed yieldable elements arranged on the base, pistons movable with said elements and fluid containing members in which said pistons operate and are retarded,

rods connecting said pistons to one of said elements and guiding devices in which said rods operate, said guiding devices comprising tubes connected to and movable with



one of said elements and also comprising abutments on the base and on base members of said elements having openings in which said tubes and said rods are movable.

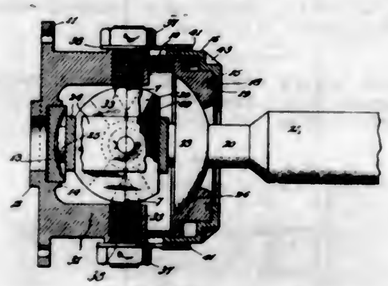
1,679,699. CHECKING TAG. ALBERT E. WRIGHT and ALBERT G. WRIGHT, San Francisco, Calif. Filed Aug. 11, 1926. Serial No. 128,694. 1 Claim. (Cl. 40—2.)



A tag formed of a single strip of destructible material divided into three conjoined sections, two of the sections constituting the check portion of the tag and being foldable one upon the other, and having their marginal edges secured together throughout their entire lengths, the other section constituting the portion to be attached to the article, said tag having corresponding characters, one being disposed on the portion attachable to the article, while the other is hidden within the sealed sections of the check portion, said check portion being removable from the article portion and said character of the check portion being readable only when the check portion is mutilated.

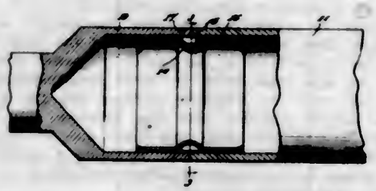
1,679,700. UNIVERSAL JOINT. MAXWELL W. WYSONG, North Plainfield, N. J., assignor of one-half to Herbert C. Poole, Newark, N. J. Filed Feb. 18, 1926. Serial No. 89,149. 8 Claims. (Cl. 64—91.)

1. A universal joint including a shell, a shaft extending therein, a core carried by the shaft, shoes slidably coacting with the core and having tapered sockets therein, and pivot pins carried by the shell and pivotally engaging in the sockets in the shoes, the shoes being rotatable on said pins whereby the shaft may rock about the axes of



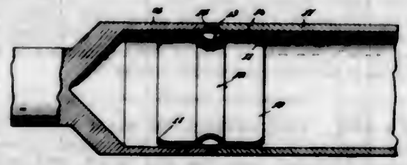
the pins and slidably supporting the core whereby the shaft may rock about an axis extending at a right angle to the axes of said pins.

1,679,701. PROCESS OF BUTT-WELDING TUBULAR ARTICLES. MAXWELL W. WYSONG, North Plainfield, N. J., assignor of one-half to Herbert C. Poole, Newark, N. J. Filed Feb. 18, 1926. Serial No. 89,151. 2 Claims. (Cl. 219—10.)



1. The process of electric welding which consists in disposing meeting ends of members of conductive material to be joined about a core of conductive material having its end portions insulated from the members and its intermediate portion spaced from the members to provide a bead forming cavity, and passing an electric current through the members to fuse the ends together and form an internal strengthening bead for the joined ends in the bead forming cavity.

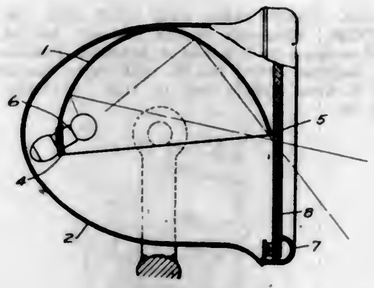
1,679,702. CORE FOR FLASH BUTT WELDING. MAXWELL W. WYSONG, North Plainfield, N. J., assignor of one-half to Herbert C. Poole, Newark, N. J. Filed Feb. 18, 1926. Serial No. 89,150. 11 Claims. (Cl. 219—4.)



1. A core for butt-welding including a core member having an external fused metal receiving cavity, and means for insulating said member externally.

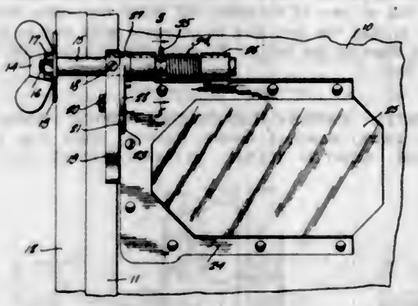
1,679,703. MOTOR-VEHICLE LAMP. ELISEO ZALLOCCO, Seattle, Wash. Filed May 25, 1926. Serial No. 111,481. 1 Claim. (Cl. 240—41.)

In a lamp of the class described, a lamp casing, a lens at the front of the casing, a substantially semi-spherical reflector in the upper portion of the casing, and a lamp bulb in the rear of the said reflector, the forward edge of the said reflector being positioned at a point approximately on the horizontal center of the lamp casing and curving backward and upward within the casing to a point approximately at the top thereof and then curving backward and downward with a somewhat sharper



curve to a point slightly below the horizontal center of the casing, said curvature forming a line on a vertical plane through the center of the said reflector and the sides of the said reflector curving downward to the lower edges thereof on lines connecting the forward and rear points of the said former curvature.

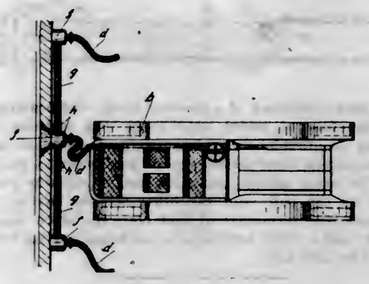
1,679,704. GLARE SHIELD. CLARENCE G. BARRON, Los Angeles, Calif. Filed Mar. 12, 1926. Serial No. 94,259. 3 Claims. (Cl. 296—97.)



1. A non-glare shield for vehicles comprising a rigidly mounted bearing member, a frame pivotally mounted thereon and adapted to be moved to an active or inactive position, a non-glare panel within the frame, an arm rigid with the bearing member, a movable member carried by the arm to detachably engage the frame when the panel is in an active position, a latch to hold the frame engaging member in position and means to move the panel to an inactive position when said member is released.

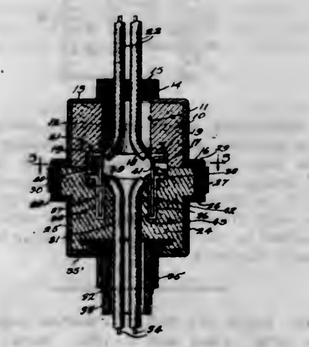
1,679,705. MEANS FOR CONVEYING AWAY EXHAUST GASES FROM MOTOR CARS IN GARAGES. MAX BAUMGÄRTEL, Rodewisch, Germany. Filed Nov. 2, 1926. Serial No. 145,838, and in Germany Aug. 31, 1926. 1 Claim. (Cl. 104—52.)

A ventilation means for garages, comprising in combination a ventilation pipe, silencers, one for each car, mounted on said ventilation pipe and projecting to the outer side of the garage, flexible metal tubes branching from said ventilation pipe and designed to be connected



to the exhaust pipes of the motor cars and shutting off valves in said ventilation pipe for preventing the back flow of the exhaust gases into the garage.

1,679,706. FIXTURE HANGER. THOMAS A. BROWN, Lake Charles, La. Filed Oct. 5, 1923. Serial No. 666,771. 1 Claim. (Cl. 173—324.)



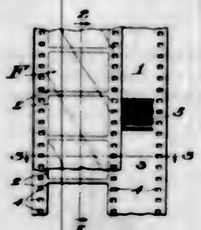
A device of the character described comprising upper and lower separable sections including shells and cylindrical insulating blocks arranged in end to end relation, said blocks being provided with relatively large axial openings extending throughout their length to receive lead-in wires, the adjacent faces of said blocks being provided with annular concentric recesses communicating with said axial openings, a pair of contacts formed of flat material having angular upper ends secured in the recess in said upper block, the lower ends of said contacts projecting a substantial distance downwardly beyond the lower face of said upper block, a pair of contact sockets formed of flat resilient material having angular upper ends secured in the bottom of the recess in said lower block, each of said sockets including a downwardly projecting portion bent back upon itself to provide parallel arms adapted to frictionally receive the lower end of one of said contacts, said parallel arms being arranged diametrically opposite each other and parallel to the axis of said blocks and spaced from the axial opening in said lower block, said lower block being provided with recesses corresponding in position to and snugly receiving said arms, the remote ends of said shells being provided with tubular axial extensions communicating with the axial openings in said block and constituting attaching members, and means for securing said separable members together, the lead-in wires being adapted to be connected to said contacts and contact sockets within said annular recesses.

1,679,707. PITMAN. WALTER L. BROWN, Gravette, Ark. Filed Mar. 23, 1926. Serial No. 96,787. 1 Claim. (Cl. 74—17.)



A pitman composed of a wooden stock, end bearing sections therefore of metal, said stock and sections being cut away to provide wrist-pin-engaging holes, a U-shaped bolt marginally surrounding one of said sections and said stock, the latter section and stock having exterior grooves entered by the bolt, and the other section having holes accommodating terminals of said bolt, the stock being in sections, and a shim between the sections having notches engaged by said bolt.

1,679,708. MOTION-PICTURE STRIP. HENRY CHARLES BULLIS, Wilmington, Del. Filed Dec. 1, 1926. Serial No. 151,969. 3 Claims. (Cl. 88—16.2.)



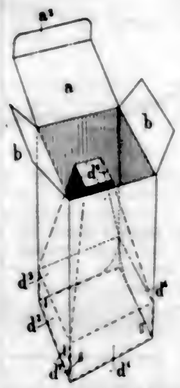
1. A combination sound and picture record strip including a metallic ribbon having a plurality of picture apertures and traction openings on each side thereof, and also having a relatively wide sound recording margin parallel to the picture apertures, said margin also being provided with traction openings at its outer edge, and a film carried by the said ribbon and being substantially co-extensive therewith.

1,679,709. HOSE COUPLER. CHARLES GEORGE COOPER, Yuma, Ariz. Filed Mar. 2, 1926. Serial No. 91,801. 5 Claims. (Cl. 285—71.)



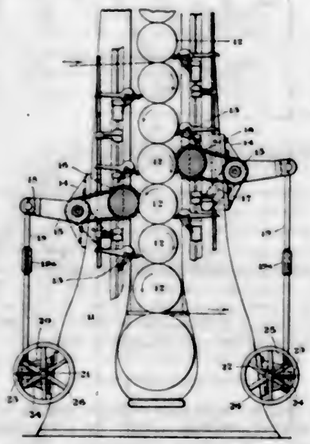
1. A hose coupler comprising a tubular body adapted to receive the confronting end portions of a pair of hose sections capable of radial expansion under the action of internal fluid pressure, said body having an intermediate tubular portion in which the extreme confronting ends of the hose sections are adapted to be received and expanded radially against the inner wall of the portion under the action of the fluid pressure so as to hermetically seal the joint between the sections, and end portions formed with openings between the intermediate portion and ends of the body into which the hose sections are capable of being expanded under the action of the fluid pressure to thereby lock the body to the sections.

1,679,710. CARDBOARD AND LIKE BOX OR CONTAINER. BENJAMIN JOSEPH CREASEY, Bristol, England, assignor to E. S. and A. Robinson, Limited, Bristol, England. Filed Dec. 8, 1924, Serial No. 754,686, and in Great Britain Dec. 11, 1923. 8 Claims. (Cl. 229—6.)



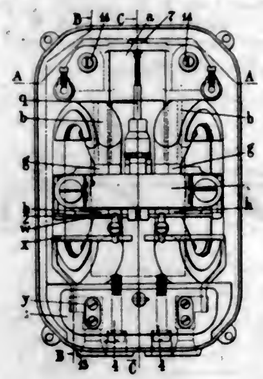
1. A collapsible rectangular box for fragile articles of the type described including an internal four-sided pyramidal unit, within which the fragile article is adapted to be supported, connected at its base to the walls of the box at two of its sides, the other two sides being free so that the unit may be collapsed with and in the same sense as the box by the extension of a diagonal of the base.

1,679,711. PAPER-CALENDERING DEVICE. ARTHUR L. DAWE, Montreal, Quebec, Canada. Filed Aug. 17, 1927. Serial No. 213,641. 10 Claims. (Cl. 92—71.)



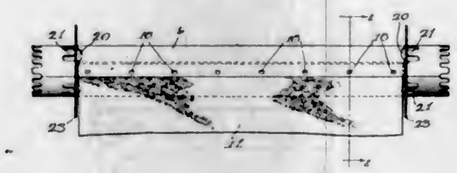
1. In a paper calendering machine having calendering rolls, a finishing roll adapted to run at a different circumferential speed to that of the calendering rolls and in contact with the paper passing therethrough.

1,679,712. DIRECT-CURRENT ELECTRICITY METER. SEBASTIAN ZIANI DE FERRANTI, Hollinwood, England, assignor to Ferranti, Limited, Hollinwood, England. Filed Feb. 10, 1925, Serial No. 8,279, and in Great Britain Mar. 3, 1924. 8 Claims. (Cl. 171—265.)



7. An electricity meter of the type described including a non-magnetic frame upon which a mercury bath, top and bottom spindle bearings, rotor spindle, permanent magnet and terminal block are supported to form a unit which readily may be inserted and removed from the containing case.

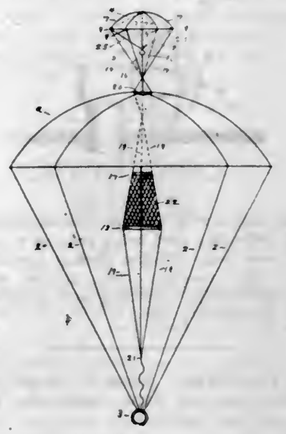
1,679,713. RIBBON SPOOL. JOSEPH S. DUNCAN and HENRY E. HUBBARD, Chicago, Ill., assignors, by mesne assignments, to Addressograph Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 26, 1925. Serial No. 52,505. 7 Claims. (Cl. 242—70.)



1. An ink ribbon spool comprising a cylindrical body made of thin sheet metal and having integral tongues and shoulders struck up therefrom, and end flanges embracing the body between said tongues and shoulders and secured thereby.

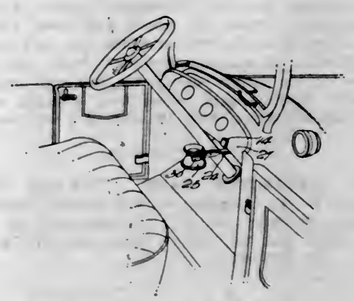
1,679,714. PARACHUTE. HALVOR OLSEN EIANE, Detroit Harbor, Wis. Filed Feb. 23, 1926. Serial No. 90,073. 5 Claims. (Cl. 244—21.)

1. An auxiliary parachute having radially disposed spring frames firmly secured to the head of a center staff, said spring frames normally spread out and capable of being compressed to parallel lines with said center staff, suitable fabric covering attached to said spring frames



and a plurality of radially disposed stabilizers of suitable fabric attached to said spring frames and center staff, and suitable cord connection to a main parachute.

1,679,715. RECEPTACLE-HOLDING AUTOMOBILE ACCESSORY. SPENCER C. FISH, La Crosse, Wis. Filed Apr. 29, 1926. Serial No. 105,594. 3 Claims. (Cl. 228—20.)

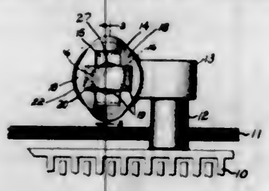


1. In an automobile accessory, a short stiff metal strip to engage a portion of an instrument board and extend forwardly from the latter, the front end of said strip being curved downwardly, rearwardly and upwardly to provide a lobe, a substantially horizontal arm having a curved front end conforming to the shape of the lobe and engaging the exterior of said lobe, and a screw and slot connection between the lobe and arm permitting vertical and horizontal adjustment thereof.

1,679,716. BATTERY CONNECTION. HARRY E. FRASIER, Devon, Conn., assignor of one-third to Odessa G. Marsh, Devon, Conn. Filed Mar. 29, 1921. Serial No. 456,714. 3 Claims. (Cl. 173—259.1.)

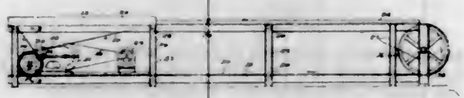
1. A connector for battery electrodes comprising a pair of cooperating coupling members secured respectively to the electrodes and to the conductor to be connected, said

members being composed of a relatively soft substantially inelastic electric conducting material, one of said members having an opening therethrough and a cam surface adjacent said opening, and the other of said members having a transversely extending part insertable through



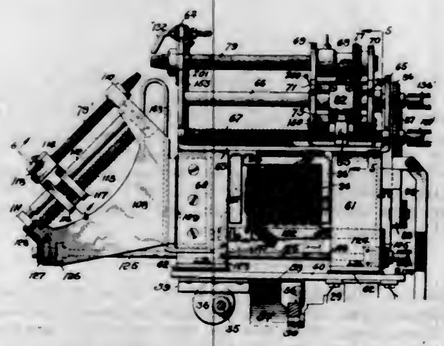
said opening and a stop shoulder spaced therefrom, said transversely extending part being adapted to engage said cam surface and clamp the first member against said stop shoulder by the camming action of the cam surface against the transversely extending part of the other member as said member is rotated.

1,679,717. CONVEYER. JESSE W. GREER, Cambridge, Mass. Filed Nov. 10, 1924. Serial No. 748,910. 3 Claims. (Cl. 107—57.)



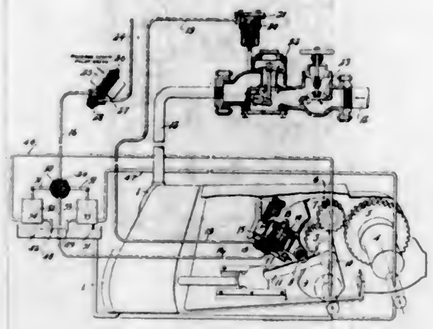
1. In a machine of the class described, in combination, a long sheet metal belt for conveying articles of food successively through a baking and cooling chamber and having an upper and a lower run, an oven, a cooling chamber and a packing table arranged along the upper run of the belt, rollers disposed at intervals along the upper run of the belt to support and drive the same as it passes through the oven and cooling chamber, a power shaft positioned between the upper and lower runs of the belt intermediate the ends of a belt run, and driving chains extending in opposite directions from said shaft lengthwise of the upper run of the belt and operable by the shaft to drive said rollers from a single source of power disposed intermediate the ends of a belt run.

1,679,718. PROJECTOR LAMP. THEODORE HALL, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 30, 1920. Serial No. 377,743. 8 Claims. (Cl. 176—65.)



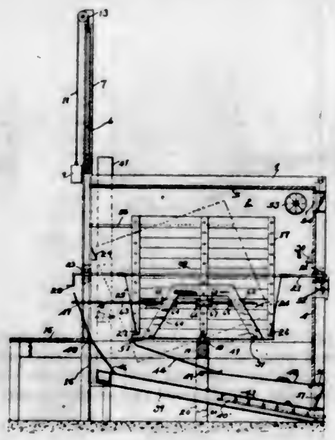
1. In an automatic arc lamp adapted to employ a pair of electrodes, a source of power, an operating member reciprocated thereby, a plurality of ratchets adapted to be actuated by said member, means connecting said ratchets with said electrodes for independently feeding each electrode, means responsive to the position of the arc for controlling the actuation of one ratchet, and means responsive to the arc length for controlling another ratchet.

1,679,719. ENTRAINMENT-CONTROLLING MECHANISM FOR AUXILIARY MOTORS. BRODERICK HASKELL, Jr., New York, N. Y., assignors to Franklin Railway Supply Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 26, 1926. Serial No. 131,559. 8 Claims. (Cl. 105—48.)



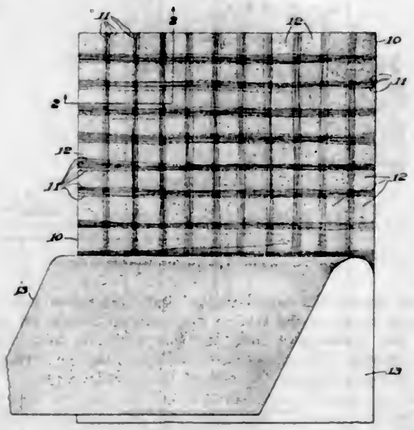
1. The combination of a railway vehicle axle, a booster, entraining mechanism for axle and booster, a motor for actuating said entraining mechanism, and means for preventing operation of said motor prior to synchronization of the speeds of booster and axle.

1,679,720. FRUIT DRIER. EARL D. HIGBY, Santa Rosa, Calif. Filed Sept. 28, 1927. Serial No. 222,502. 6 Claims. (Cl. 34—39.)



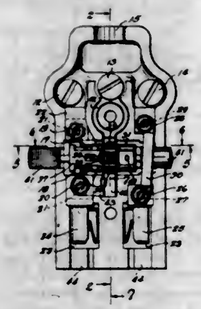
1. A drier of the class described comprising a housing, a fruit tray carrying cage pivoted in said housing, means to tilt said cage on its pivot, and means to hold said cage in adjusted positions.

1,679,721. REENFORCED-PAPER FABRIC. CHARLES H. HOWARD, Saugus, Mass., assignor, by mesne assignments, to American Re-Enforced Paper Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Apr. 9, 1927. Serial No. 182,275. 6 Claims. (Cl. 154—52.)



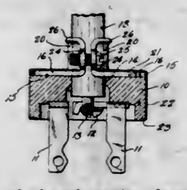
1. As an article of manufacture, a reenforced or strengthened fabric, comprising a strip of paper reenforced by approximately parallel unspun fibers adhesively secured to the paper in spaced groups disposed at frequent intervals over the face of the paper and separated by areas that are unreenforced by the unspun fibers.

1,679,722. SWITCH PLUG. HARVEY HUBBELL, Bridgeport, Conn.; Louie E. Hubbell executrix of said Harvey Hubbell, deceased. Filed July 18, 1924. Serial No. 726,682. 2 Claims. (Cl. 200—51.)



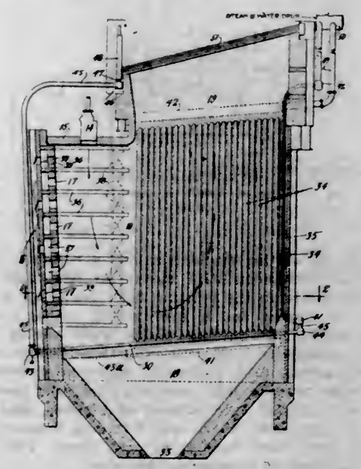
1. In an electrical device of the character described, an insulating body divided into two sections longitudinally thereof, the sections of said body being recessed on their opposed faces to provide an entrance for lead wires at one end, recesses adjacent the opposite end with guide openings leading from said end to the recesses for passage of the terminal blades of an attachment cap, and a switch chamber intermediate the recesses and the lead wire entrance, three binding posts mounted in one of the sections on opposite sides of and in alignment with said entrance, spaced switch contacts in the switch chamber connected to two of said posts, a movable switch element adapted to bridge said contacts, means for operating the switch element, contacts in said recesses electrically connected to one of the binding posts connected to the switch contacts and the third binding post respectively, and means for securing the sections together to enclose the contacts and switch.

1,679,723. CORD CLAMP. HARVEY HUBBELL, Bridgeport, Conn.; Louie E. Hubbell executrix of said Harvey Hubbell, deceased. Filed May 18, 1925. Serial No. 30,997. 9 Claims. (Cl. 173—322.)



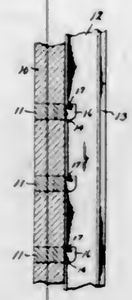
1. In a device of the character described, an insulating body member having an opening, binding posts mounted on one side of said member, said member being provided with aligned recesses on the opposite side, a pair of clamping members having laterally extending feet slidable in said recesses, means for securing the feet to the body member, an insulated cord between the clamping members and having lead wires extending through said opening to the binding posts, and means for clamping the clamping members on the cord to secure the body member thereto.

1,679,724. FURNACE. GEORGE P. JACKSON, Flushing, and HARLOW D. SAVAGE, Scarsdale, N. Y., assignors to Combustion Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 17, 1924. Serial No. 738,132. 1 Claim. (Cl. 122—235.)



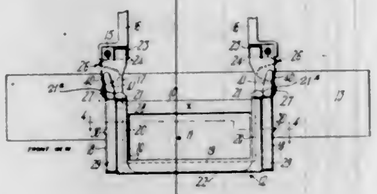
A pulverized fuel combustion chamber having a row of substantially upright closely spaced exposed water tubes forming the rear wall, a similar row forming a portion of each side wall, a sheathing for said rows of tubes, exposed refractories forming the front wall and the remaining portion of each side wall, a plurality of substantially horizontal vertically spaced air passages in said refractory front and side walls, inlets to said passages in the side walls adjacent the portion of the chamber formed by the water tubes and outlets from said passages into the chamber in the front wall, means for admitting fuel adjacent the said refractories to be burned in space in the chamber and an outlet from the chamber for the gaseous products of combustion.

1,679,725. FURNACE WALL. DAVID S. JACOBUS, Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Apr. 2, 1925. Serial No. 20,026. 18 Claims. (Cl. 72—101.)



15. In an air-cooled furnace wall, fixed members spaced apart, a casing along one edge of said members and a wall along the other edge, said members, casing and wall forming air ducts, said wall comprising tile having recesses therein, transverse members engaging said fixed members and slidable thereon, and holding members engaging said recesses and said transverse members.

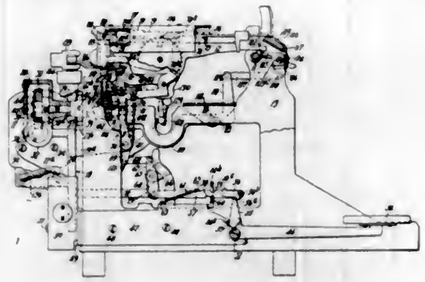
1,679,726. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed May 29, 1925. Serial No. 33,621. 8 Claims. (Cl. 197—135.)



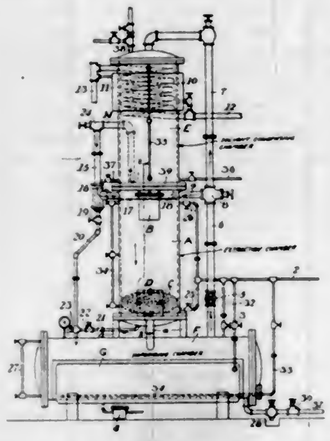
6. In a typewriting machine having a revoluble platen and typing instrumentalities, means for removably holding a stencil-card in the printing field, including, in combination, a support and a card-holding frame mounted thereon having side-guiding plates with gaging edges effective to laterally locate the card, there being a cross piece connecting said plates at their lower extremities to form a lower limit for said card, and retaining fingers to hold said card against said plates, and rigid means on said frame above said retaining fingers to deflect and strip said card from said frame when said card is fed upward from said cross-piece.

1,679,727. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed July 6, 1925. Serial No. 41,507. 23 Claims. (Cl. 197—65.)

1. In a typewriting machine, the combination with a platen and a letter-feeding carriage including a rack-bar, of a carriage-returning device attachable as a unit to the frame of the machine, said unit including a sub-frame attachable to the rear of the machine-frame, an electric motor carried by the sub-frame, a secondary shaft driven by the shaft of the motor, a support associated with the sub-frame for supporting the end of the secondary shaft, a clutch-jaw secured to the secondary shaft, a second clutch-jaw freely revoluble on the secondary shaft, a pinion fixed to the second clutch-jaw and in mesh with the rack-bar of the carriage, a frictional connection between the first clutch-jaw and the driving shaft of the motor, key-operated means for closing the clutch-jaws and the motor-circuit, and means for opening said clutch-jaws and said motor-circuit as the carriage reaches the end of its return travel.



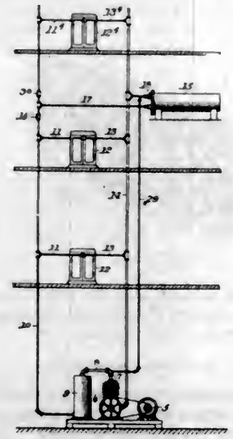
1,679,728. GREASE EXTRACTOR. FREDERICK E. LYNN, Springdale, Pa. Filed June 9, 1926. Serial No. 114,641. 2 Claims. (Cl. 87—6.)



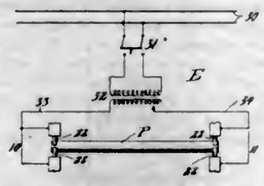
1. Apparatus for the extraction of solvent soluble substances from a mass of solids, comprising a chamber for the solid material, a solvent condensing chamber above the material chamber, a siphon connection between said chambers, whereby solvent is drained to the material chamber when it has reached a predetermined level in the solvent chamber, a distilling chamber below the material chamber, a restricted outlet leading from the material chamber to said distilling chamber whereby flow of solvent from said material chamber is retarded, means for heating said distilling chamber, and means for conducting vapors produced by said heating to the solvent chamber.

1,679,729. REFRIGERATING SYSTEM. FREDERICK E. LYNN, Springdale, Pa. Filed July 18, 1927. Serial No. 206,453. 6 Claims. (Cl. 62—115.)

1. A refrigerating system comprising a compressor, a condenser, a reservoir disposed above the condenser, a cabinet, a connection between the condenser and the reservoir, a connection between the reservoir and the inlet side of the compressor, a connection between the reservoir and the said cabinet, a connection between the compression chamber of the compressor and the reservoir, and valves for controlling flow through said connections.



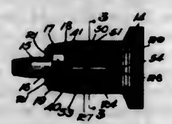
1,679,730. ELECTRICAL HEATING APPARATUS AND METHOD. ANGUS S. MACDONALD, Great Neck, N. Y., and CHARLES C. WAITE, Roselle Park, N. J., assignors to Snead & Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 17, 1923. Serial No. 652,047. 15 Claims. (Cl. 219—11.)



1. A method of preventing deleterious cooling, by terminal clamps, of a piece electrically heated by passage of current through it, without risk of excessive local heating effects at the contacts between clamps and piece; which method comprises specially heating, by passage of electric current, portions of the clamps behind those which engage the piece, while minimizing heating effects at the latter portions.

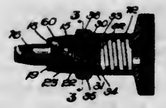
11. A terminal clamp for pieces to be heated by passage of current having a highly conductive piece-engaging portion, and a heater portion of high resistance behind such piece-engaging portion.

1,679,731. LUBRICATING APPARATUS. HOWARD J. MURPHY, Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 14, 1922. Serial No. 543,649. 26 Claims. (Cl. 284—10.)



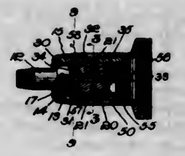
1. Lubricating apparatus of the class described comprising, in combination, a coupling part for connection with and disconnection from a nipple, an aligned valve, and shiftable clutch means for locking some of the parts of said coupling against relative rotation to insure initial completion of the coupling operation, said clutch means thereafter shiftable to unlock the parts of said coupling to permit opening of said valve.

1,679,732. LUBRICATING APPARATUS. HOWARD J. MURPHY, Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 14, 1922. Serial No. 543,650. 4 Claims. (Cl. 284—19.)



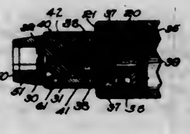
1. Lubricating apparatus of the class described including a lubricant-delivering compressor having at its discharge end a quick detachable coupling for connection by movement of said compressor relative to a lubricant-receiving element, said coupling providing a rotary valve, and clutch means positively opposing opening of said valve until completion of the coupling operation, said valve operable by a manipulative operation separate and distinct from the coupling operation.

1,679,733. LUBRICATING APPARATUS. HOWARD J. MURPHY, Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 14, 1922, Serial No. 543,651. Renewed Jan. 20, 1928. 2 Claims. (Cl. 284—19.)



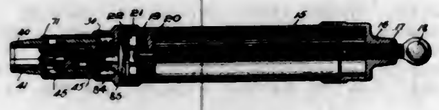
1. Lubricating apparatus including a lubricant compressor having a nozzle presenting a valve part and a sealing part assembled therewith reciprocable in said nozzle by rotary movement transmitted to said nozzle when engaged with a lubricant receiving nipple, said valve independent of said sealing part and disposed rearwardly thereof.

1,679,734. LUBRICATING SYSTEM AND APPARATUS. HOWARD J. MURPHY, Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 14, 1922. Serial No. 543,654. 6 Claims. (Cl. 221—47.4.)



1. A lubricant gun presenting a barrel having at its discharge end a coupling comprising unitary valve and sealing means, said means extending into said barrel, a protective sleeve surrounding said means, and a flanged over portion of said barrel for retaining said sleeve and means in their respective positions, said flanged over portion and sleeve serving to prevent tampering with said valve and sealing means.

1,679,735. LUBRICATING APPARATUS. HOWARD J. MURPHY, Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 14, 1922. Serial No. 543,656. 4 Claims. (Cl. 284—18.)



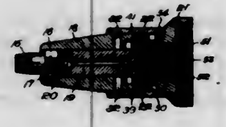
1. Lubricating apparatus comprising, a lubricant gun for torsional engagement with a lubricant-receiving nipple, said gun presenting a valved coupling and interengaging pin and slot means independent of the coupling means between the gun and nipple for automatically effecting closure of said valve on release of torsion on said gun.

1,679,736. LUBRICATING APPARATUS. HOWARD J. MURPHY, Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 14, 1922. Serial No. 543,657. 7 Claims. (Cl. 284—18.)



1. Lubricating apparatus including a source of lubricant under pressure presenting a discharge terminal having a coupling including a retractile coupling sleeve and a sealing part retractable by retraction of said sleeve when a lubricant-receiving nipple is entered therein, and detent means positively opposing retraction of said sealing part until a nipple is entered in said coupling and said sleeve is turned relative thereto.

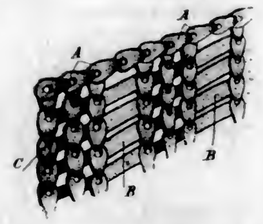
1,679,737. LUBRICATING APPARATUS. HOWARD J. MURPHY, Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 14, 1922. Serial No. 543,658. 5 Claims. (Cl. 284—18.)



1. Lubricating apparatus including a source of lubricant under pressure having a coupling sleeve rotatable relative to a nipple to provide an interlock with projecting means provided on the nipple, a cooperating sealing part and means for initiating retraction of said sleeve relative to the sealing part following completion of the interlock.

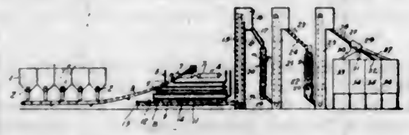
1,679,738. FABRIC MADE OF SCRAP FELT OR OTHER PLIANT MATERIAL. LOUIS ORIGONE, Marseille, France. Filed May 7, 1927. Serial No. 189,685, and in France Mar. 19, 1927. 4 Claims. (Cl. 28—1.)

1. In a fabric a plurality of elements, each element consisting of a strip of pliant material and having at each end an eye, said elements arranged in horizontal and vertical rows, said vertical rows composed by folded strips, two opposite strips of two vertical rows being always connected together by at least one horizontal strip, the



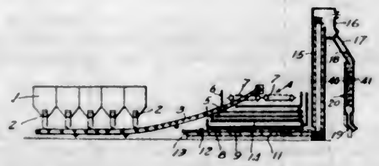
next folded strip passing with its central portion through the eye of the horizontal strip and through both eyes of the preceding strip of the vertical row.

1,679,739. PROCESS FOR PYROELECTRIC SEPARATION OF FINELY-DIVIDED MATERIALS. GUSTAV A. OVERSTROM, Pacific Grove, Calif. Filed Nov. 24, 1925. Serial No. 71,212. 10 Claims. (Cl. 209—129.)



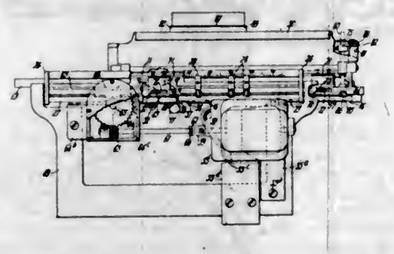
1. The process of separation of constituents of a mixture of divided material which consists in subjecting said mixture to temperature changes in such manner as to produce by pyro-electric action electrification of a constituent of said mixture, and causing the mixture to pass into contact with and over a surface in such manner as to cause separation of a constituent of the mixture from the remainder thereof by the electrical action due to pyroelectrification of the materials, and in the absence of any electrification applied from an external generative apparatus.

1,679,740. ART OF ELECTRICAL SEPARATION OF FINELY-DIVIDED MATERIALS. GUSTAV A. OVERSTROM, Big Sur, Calif. Original application filed Nov. 24, 1925, Serial No. 71,212. Divided and this application filed Nov. 23, 1926. Serial No. 150,320. 1 Claim. (Cl. 209—127.)



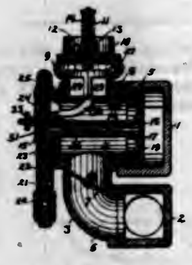
The method of separating mica from sand containing the same which consists in heating and drying the mixture, and subjecting the mixture to temperature changes in such manner as to develop pyro-electric action in a constituent of the mixture, causing the mixture while so electrified by pyro-electric action to pass over and in contact with a stationary supporting surface of glass and to fall from said surface in such manner that the mica constituent of the sand will separate from the rest of the sand as the latter falls from the glass surface, and separately collecting the mica and the sand constituents so separated.

1,679,741. TYPEWRITING MACHINE. HENRY L. PITMAN, Westfield, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Original application filed Feb. 27, 1923, Serial No. 621,520. Divided and this application filed Feb. 2, 1926. Serial No. 85,438. 17 Claims. (Cl. 197—65.)



1. In a typewriting machi e, a carriage, a platen therein shiftable for printing upper-case characters, automatic carriage-returning mechanism comprising a bar movable relatively to the carriage for a limited distance, a vertical rock-shaft operable by the bar during such relative movement of the bar and carriage, a slotted crank on the rock-shaft, and a line-spacing slide having a vertical pin received in the slot of the crank loosely enough to permit relative movement of the pin and crank in case-shifting operations, the arrangement being such that the rocking of the vertical shaft will draw the line-spacing slide rearward to line-space the platen.

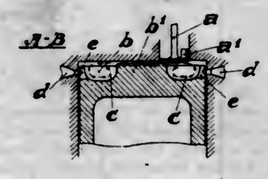
1,679,742. CARBURETOR. WILLIAM B. RALSTON, Fort Wayne, Ind. Filed May 21, 1920. Serial No. 383,120. 4 Claims. (Cl. 261—13.)



1. In a charge forming device for an internal combustion engine having inlet and exhaust pipes and means for producing an initial mixture of air and fuel; a mixing chamber having an inlet for the bulk of the air supply and also a portion of the walls thereof extending into an opening in the wall of said exhaust pipe, a conduit of comparatively small cross-section extending from said initial mixture-forming means across said mixing chamber and terminating in an enlarged head of a shape similar to the cross section of the wall portion of the mixing chamber so extending into the exhaust pipe, so as to leave a narrow passage between said head and the adjacent walls of the mixing chamber, and also having baffles on its sides arranged transversely to the line of flow of the bulk of the air supply so as to direct said air against the interior of said enlarged head and across the line of flow of the heated mixture leaving said narrow passage, for heating said initial mixture and diluting it with the bulk of the air necessary for combustion.

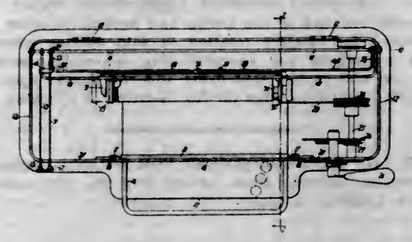
3. A carburetor comprising a mixing chamber, means for discharging fuel into said chamber, means controlling the amount of fuel discharged, two suction-responsive valves mounted in the air inlet to said mixing chamber and forming between them an entry chamber, the outer of said valves restricting, but not closing, the air inlet and having a greater resistance to opening than the inner valve, and means whereby the opening of the inner valve opens the fuel controlling means.

1,679,743. INTERNAL-COMBUSTION ENGINE WITH FUEL INJECTED SIDEWISE. WILHELM RIEHM, Augsburg, Germany, assignor to the Firm: Maschinenfabrik-Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany, a Corporation of Germany. Filed Apr. 11, 1925, Serial No. 22,330, and in Germany Oct. 20, 1924. 9 Claims. (Cl. 123—32.)



1. In an internal combustion engine of the character described, a cylinder having a cylinder head, a piston operating in said cylinder, an annular groove in the head of said piston formed intermediate the periphery and the center thereof, the middle part of said piston being in the form of a flat disk, said parts being so constructed that when the piston is in a dead centre position the middle part all but touches the cylinder head thus allowing only a necessary clearance, said parts forming an annular combustion chamber, means for admitting air to the combustion chamber and for imparting a rotary motion thereto, and means for injecting fuel into the air in said combustion chamber while the air is thus in motion.

1,679,744. TYPEWRITING MACHINE. EDWARD G. ROWLEY, Belleville, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 30, 1925, Serial No. 26,886. Renewed Jan. 28, 1927. 21 Claims. (Cl. 197—186.)

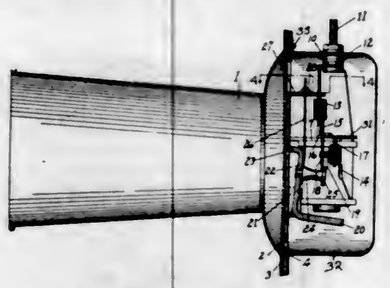


1. In a sound-deadening casing for a typewriting machine, said casing completely enclosing the machine except for the keyboard extending through an opening in front thereof, means for returning the carriage including an arm pivotally mounted on the side of said casing, and means controlled by a depressible button for releasing the carriage.

1,679,745. AUTOMOBILE HORN. GEORGE J. SEISS, Toledo, Ohio. Filed Aug. 6, 1923. Serial No. 655,810. 3 Claims. (Cl. 177—7.)

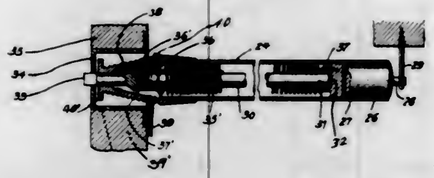
2. In an automobile horn, a main supporting plate, ears struck up from the main supporting plate, a connector plate and a magnet supported by the ears, a

pair of insulated binding posts and an elastic movable contact member and a fixed insulated contact member secured to the connector plate, an armature pivotally



supported on the main supporting plate and in position to be operated upon by the electromagnet and having a part engaging the end of the elastic contact member, a shell for covering the said main supporting plate and enclosing the said parts and having openings through which the binding posts extend.

1,679,746. SASH BALANCE. SAMUEL E. SNYDER, Brooklyn, N. Y. Filed Mar. 28, 1923, Serial No. 628,179. Renewed Oct. 28, 1927. 2 Claims. (Cl. 16—198.)



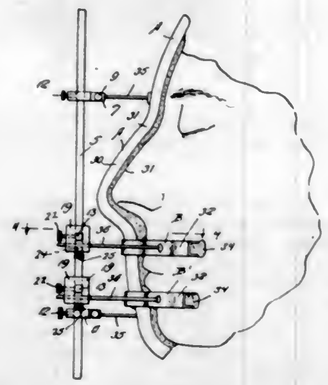
1. A spring roller comprising a casing, a conical winding drum on one end thereof, a bearing member rigid with the other end thereof and having a trunnion in its outer end, a rod extending longitudinally within and through one end of the casing and having its other end mounted for relative rotation in said bearing member, and a resilient and energy-storing connection between the rod and casing, said drum and rod having openings therein adapted to align for the insertion of a locking pin.

1,679,747. REENFORCEMENT FOR POLES. GEORGE B. SPRING, Newton, Mass. Filed May 21, 1926. Serial No. 110,661. 1 Claim. (Cl. 20—100.)



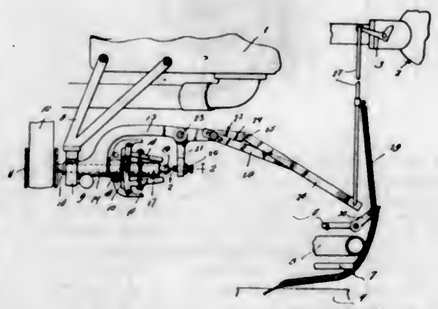
A reenforcement for poles comprising a reenforcing member adapted to be set into the earth alongside of the pole and means for clamping the reenforcing member to the pole, said means comprising a perforated plate adapted to rest against the pole, a clamping rod adjustably secured at one end to the reenforcing member and having a hook portion at the other end to enter an aperture of the plate from the outer face, the terminal of the hook portion being provided with a lip to underlie the plate said lip being situated between the plate and the pole and serving to lock the clamping member to the plate.

1,679,748. DENTAL APPLIANCE FOR INDICATING THE OUTLINE OF THE FACE. RAY A. STRATTON, Huron, S. Dak. Filed Feb. 23, 1927. Serial No. 170,276. 4 Claims. (Cl. 32—6.)



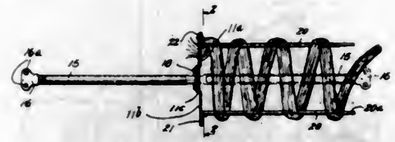
1. A device of the class described including, in combination, a frame consisting of a vertical bar, a pair of transverse bars, means for adjustably mounting the transverse bars on the vertical bar, a vertical record mask member, means for mounting the mask member on a vertical bar, a pair of transverse record mask members, and means for mounting the transverse record mask members on the transverse bars.

1,679,749. AUTOMOBILE SPEED GOVERNOR. THOMAS J. STRICKLER, Washington, D. C., assignor of one-half to Charles D. Holden. Filed Feb. 25, 1927. Serial No. 170,900. 4 Claims. (Cl. 264—1.)



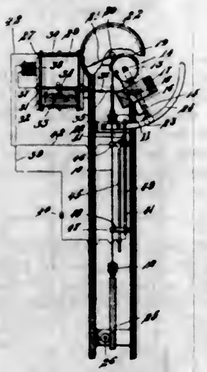
1. In a speed regulator of the class described, a bearing, a shaft mounted for rotation in said bearing, said shaft being provided with a pulley adapted to be driven by a fan belt, an attaching bracket for the bearing, a supporting arm connected with the bearing, a bell crank pivotally mounted on the supporting arm, an operating connection associated with one arm of the bell crank for a throttle valve, centrifugal governor actuated means on the shaft cooperable with the remaining arm of the bell crank, together with adjustable means carried by the last crank arm for cooperation with said means.

1,679,750. HAIR WAVER. CHARLES M. SZIRMAY, Cold Spring, N. Y. Filed Sept. 30, 1927. Serial No. 223,069. 9 Claims. (Cl. 132—41.)



1. The herein described hair waver comprising a pair of rods, means holding the rods parallel to each other and in position to receive a strand of hair thereon, a bar movable between said rods and serving to put the hair under tension, and means to lock the bar in proper position with respect to the hair and rods, said means for locking the bar and rods together comprising a hasp pivoted to one of the members and having detachable connection with the others.

1,679,751. TESTING MACHINE. ROBERT P. STEVENSON, Providence, R. I., assignor to Henry L. Scott Company, Providence, R. I., a Corporation of Rhode Island. Filed Mar. 31, 1927. Serial No. 179,879. 11 Claims. (Cl. 265—2.)

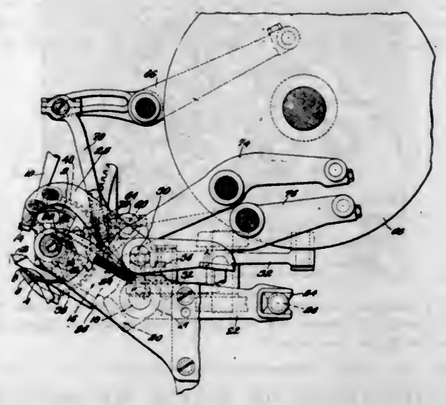


1. In a testing machine, a tensile testing mechanism, a stretch testing mechanism, an electric circuit, a chart support in said circuit and means responsive to movement of said stretch testing mechanism for closing the circuit intermittently to cause a spark to jump through the chart at intervals to the support beyond.

1,679,752. FINELY-DIVIDED NITROGUANIDINE AND METHOD OF MAKING SAME. ARTHUR P. TANBERG and RICHARD L. KRAMER, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 6, 1922. Serial No. 550,178. 15 Claims. (Cl. 260—125.)

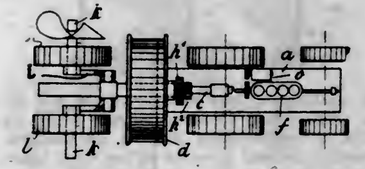
1. The method of preparing finely divided nitroguanidine which comprises dissolving sufficient nitroguanidine in water at a temperature substantially above 100° C., under super-atmospheric pressure, to form a solution containing substantially more nitroguanidine than would saturate said water at 100° C., and then discharging said solution into a cold liquid medium to precipitate the nitroguanidine in a finely subdivided state.

1,679,753. SEWING MACHINE. LAURENCE E. TOPHAM, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 24, 1920. Serial No. 383,634. 21 Claims. (Cl. 112—47.)



1. A sewing machine having, in combination, stitch forming mechanism including a needle, an awl, a work support, and a presser foot, all of which are movable in the line of feed, and means for back feeding the work support and presser foot while the awl is in the work.

1,679,754. TRACTOR. GÉZA VON JALSOVICZKY, Budapest, Hungary. Filed July 8, 1926, Serial No. 121,239, and in Hungary Mar. 30, 1926. 5 Claims. (Cl. 104—169.)



1. In combination two tractors, each having a power engine, an electric machine capable of running either as a dynamo or as a motor, removable supports, a shaft fixed in the said supports, a rope drum capable of rotating on the shaft, means for transmitting the rotary motion of the electric machine to the rope drum, stub shafts, guide wheels on the stub shafts, tilling appliances mounted on the stub shafts for preventing a lateral displacement of the tractor, a hauling rope between the two hauling drums capable of being wound from one on to the other and of hauling a reversible plough and means for supplying electric energy generated by the electric machine on one tractor to the electric machine on the other tractor in accordance with the load, as set forth.

1,679,755. EXHIBITING APPARATUS OR AMUSEMENT DEVICE. ALONZO V. WARREN, Hastings upon Hudson, N. Y. Filed July 2, 1927. Serial No. 203,008. 9 Claims. (Cl. 46—40.)

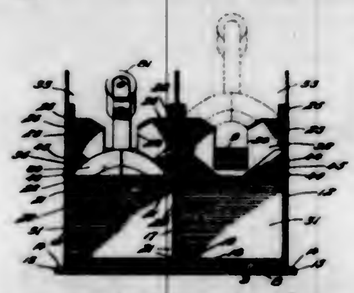
1. A device of the character described comprising a flat extended support, a figure formed of a plurality of articulated members, joints connecting said members, free ends of some of said members being anchored at spaced points

to said flat extended support, and means for actuating one of said members so as to impart movement through the medium of said joints to the other of said members



in a manner determined by the said anchored points of the members whereby a distinctive operation is imparted to the figure as a whole.

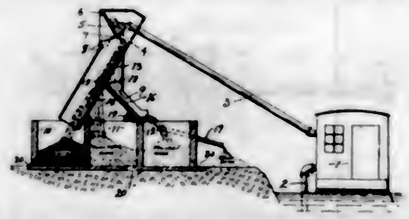
1,679,756. STAND FOR HEATING ELECTRIC SAD-IRONS. RAYMOND E. ALLEN, Providence, R. I. Filed Jan. 28, 1928. Serial No. 250,151. 6 Claims. (Cl. 219—25.)



3. In combination with an electric sad iron having a heating element and electrical contact plugs connected therewith, a heating stand therefor, an abutment block of insulating material mounted in the stand transversely of the iron and in the rear of the iron provided with a recess having abutment faces, electrical contact members comprising contact plates fixed in the faces, and metallic rods extending through the abutment blocks to the plates, electrical circuit conductors engaging the free ends of the rods, a centering block of insulating material provided with holes adapted to receive the contact plugs and provided with lateral faces, and electrical contact members comprising metallic plates on the lateral faces adapted to register with the first contact plates, and metallic screws in the centering block connecting the second mentioned contact plates and the contact plugs.

1,679,757. SAND-GRADING DEVICE. FRANK M. ANDERSON and CHESTER O. ANDERSON, St. Joseph, Mo. Filed June 5, 1926. Serial No. 113,892. 1 Claim. (Cl. 209—356.)

In a sand grading device, a chute having screened openings in the bottom as distribution means for the graded sand and an extension on the upper end thereof in which to pivotally connect a baffle plate and means to stationarily place the angle of the plate relative to the longitudinal plane of the chute so that the discharge from a pumping plant will be spread thereby to equally distribute on the bottom of the chute in its downward travel, a chute laterally extending from the under side of the first said chute to register with the upper screened opening, a screening spaced from the bottom of last said chute, a spout registering between the last said screening



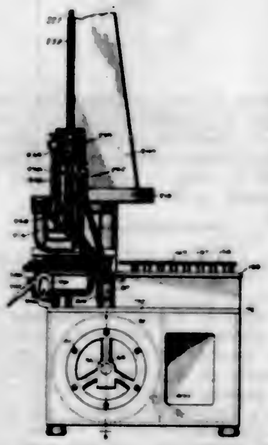
and the bottom of the last said chute as conveying means for silt, fine sand or the like from the graded sand, all as, and for the purpose described.

1,679,758. JUNCTION-POINT CONSTRUCTION FOR IRON NETWORK. WALTHER BAUERSFELD and OTTO SCHMIDT, Jena, Germany, assignors to the Firm of Carl Zeiss, Jena, Germany. Filed Nov. 6, 1923, Serial No. 673,203, and in Germany Nov. 8, 1922. 2 Claims. (Cl. 287—14.)



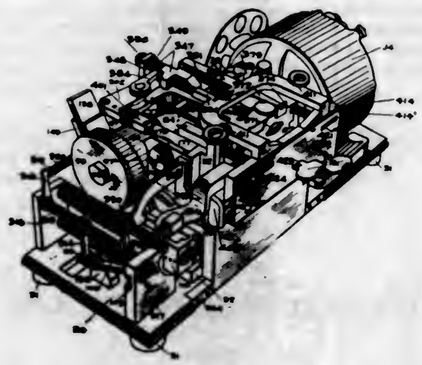
1. In a connection for several bars of an iron network, two discs, each provided with a circular projection, one of these discs engaging each of the bars from one side and the other from the other side of the network, behind a projection at the end of each bar, this latter projection being perpendicular to the axis of the bar, and means adapted to clamp the discs against the bars for rigidly fixing the bars in their position.

1,679,759. LOCK-FILLING MACHINE. FRANK ELLISON BEST, Seattle, Wash., assignor to Frank E. Best, Inc., Seattle, Wash., a Corporation of Washington. Filed June 6, 1921. Serial No. 475,405. 16 Claims. (Cl. 29—84.)



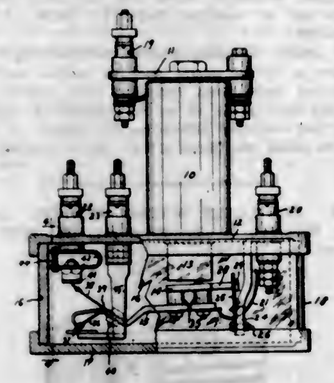
1. A lock filling machine embodying permutation devices and means governed by said permutation devices for forming pin tumblers of predetermined lengths.

1,679,760. LOCK COMBINATOR. FRANK ELLISON BEST, Seattle, Wash., assignor to Frank E. Best, Inc., Seattle, Wash., a Corporation of Washington. Filed May 9, 1923. Serial No. 637,721. 56 Claims. (Cl. 29—1.)



1. In a lock filing machine, devices for cutting off tumbler pins and means governed by the shape of a key for automatically determining the lengths of said tumbler pins.

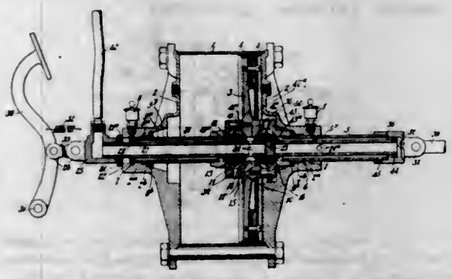
1,679,761. RELAY. DAVID C. BETTISON, Omaha, Nebr. Filed Aug. 9, 1926. Serial No. 128,287. 7 Claims. (Cl. 200—87.)



1. In a relay of the class described, the combination with an electromagnet and its armature, of means for supporting said armature for movement toward and from the electromagnet, comprising a laterally flexible member secured at one end to the armature and at the other end to a frame-member fixedly associated with the electromagnet, said laterally flexible member extending substantially parallel with but spaced laterally from the line of traction of the electromagnet.

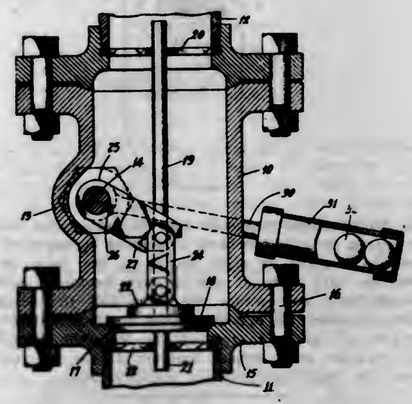
1,679,762. POPPET-VALVE MECHANISM FOR POWER ACTUATORS AND THE LIKE. CALEB S. BRAGG, Palm Beach, Fla., and VICTOR W. KLIESRATH, Port Washington, N. Y., assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y., a Corporation of New York. Filed Oct. 20, 1925, Serial No. 63,697. Renewed June 22, 1927. 7 Claims. (Cl. 121—41.)

1. A power actuator comprising among its members, a cylinder closed at each end by a head provided with a guiding aperture, a double acting piston in the cylinder, reversing valve mechanism located in the piston, a hollow piston rod connected to the piston and extending through the guiding aperture in each of the cylinder heads, each of said hollow piston rods being provided with means for conducting air under atmospheric pressure to the reversing valve mechanism, one of said piston rods being constructed so as to be withdrawn within the bearing aperture of the cylinder head through which it passes, when the piston is in "off" position, a hollow valve actuating



member extending through said hollow piston rod and operatively connected with the reversing valve mechanism for actuating the same, means for connecting said hollow valve actuating member with a source of suction, and a part carried by said hollow valve actuating part for engaging the adjacent cylinder head when the piston is in "off" position, to limit the return movement of said valve actuating part, and to close the outer end of the bearing aperture in the cylinder head, and prevent access of water and dirt to the hollow piston rod engaging the said bearing aperture.

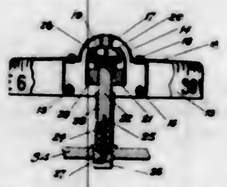
1,679,763. RELIEF VALVE. GUNTHER H. BRUNOW, Port Arthur, Tex. Filed Aug. 28, 1926. Serial No. 132,293. 3 Claims. (Cl. 251—147.)



1. In a pressure relief valve, the combination with a casing having an inlet and an outlet port and a valve normally closing the inlet port, of a valve stem formed integral with the valve, a ring loosely mounted on the valve stem and seated on the valve, a rotatable shaft mounted in the casing with one end extending through the wall of the casing, means operatively connecting the ring and the shaft so that any movement of the stem imparts a rotary movement to the shaft, a tubular member secured to the end of the shaft outside the casing, a movable weight, normally maintained in the outer end of the tubular member for maintaining the valve closed

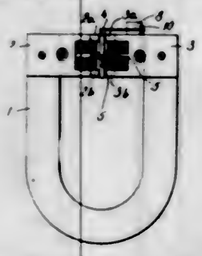
against the pressure for which it is adjusted, said movable member being adapted to shift its position rapidly to decrease the pressure exerted against the opening of the valve.

1,679,764. MAGNETIC COMPASS. CHARLES H. COLVIN, Brooklyn, N. Y., assignor to Pioneer Instrument Company, a Copartnership consisting of Charles H. Colvin, Brice H. Goldsborough, and Morris M. Titterington, Brooklyn, N. Y. Filed Oct. 11, 1922. Serial No. 593,696. 11 Claims. (Cl. 33—223.)



1. In a magnetic compass, in combination, a magnetic element, and supporting means for said magnetic element: comprising a plunger, a cup-bearing mounted therein, a socket in which said plunger is carried, elastic means between said plunger and said socket, an axial extension on said plunger terminating in a positioning element, an extension on said socket member terminating in a slot in which said positioning element is contained, and said socket having a passage connecting from the inside to the outside of said socket.

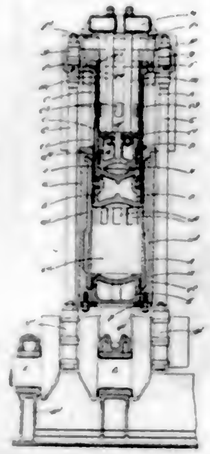
1,679,765. ELECTROMAGNETIC DEVICE. CLAIR L. FARRAND, Forest Hills, N. Y., and ERNEST ROSS, East Orange, N. J.; said Ross assignor to Farrand Mfg. Co. Inc., Long Island City, N. Y., a Corporation of New Jersey. Filed Nov. 5, 1926. Serial No. 146,351. 7 Claims. (Cl. 175—339.)



1. An armature assembly for electromagnetic devices comprising an armature and a strip of spring steel disposed in a plane at right angles to the plane of the armature, said strip of spring steel having a slot extending part way across the same and the armature having grooves on opposite faces to receive the edge portions of the steel strip at the slot, the steel strip and armature being brazed together at the junction between the two.

1,679,766. INTERNAL-COMBUSTION ENGINE. EDWARD HENRY FRIEND and ALBERT GILRAD BENTLEY, Holborn, London, England, assignors to The Friend Bentley Elements Company Limited, Melbourne, Australia, a Corporation of Victoria, Australia. Filed Sept. 17, 1925, Serial No. 56,874, and in Great Britain Oct. 18, 1924. 6 Claims. (Cl. 123—57.)

5. In an internal combustion engine a cylinder closed at its lower end, a fixed abutment of the piston type partly closing the upper end of the cylinder, a sleeved piston of which the sleeved portion slides over the fixed abutment, a trunnion member to which the sleeved portion of the piston is secured, which trunnion member is entirely above the upper end of the cylinder, connecting rods externally to the cylinder and connected

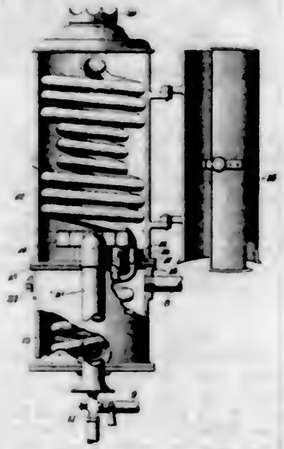


to the said trunnion member, and liquid cooling means for supplying the piston with cooling liquid through the trunnion member.

1,679,767. COTTON FABRIC AND PROCESS OF MANUFACTURING THE SAME. EMIL GMINDER, Reutlingen, Germany. Filed Dec. 23, 1925, Serial No. 77,366, and in Germany Sept. 17, 1924. 4 Claims. (Cl. 8—20.)

1. The herein described process of imparting a woolly appearance to textile goods, such as woven, knitted and other fabrics made from vegetable fibre, which consists in treating the goods so as to produce a slight nap thereon, and treating the same by means of alkaline solution to cause the fibres of the nap to shrink or curl.

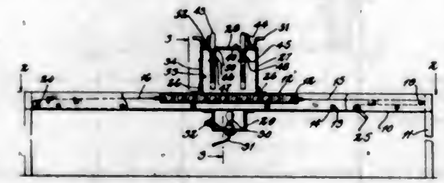
1,679,768. AUXILIARY WATER HEATER. ANDRÉ F. GORIN, Brooklyn, N. Y. Filed May 18, 1926. Serial No. 109,838. 1 Claim. (Cl. 122—32.)



In a device of the character described, a pipe circuit comprising a plurality of coils of pipe arranged in series to conduct a fluid serially therethrough, said pipe circuit

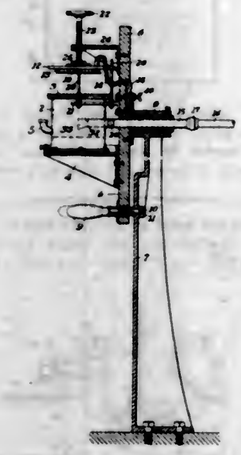
being divided into sections, a casing surrounding the coils of the pipe circuit, a partition dividing said casing into compartments, said partition having an opening through which the pipe extends and wherein abutting ends of the pipes comprising the sections are placed and meet, a watertight joint surrounding said ends in said opening, said joint serving to seal the abutting ends of the sections and the opening, means for supplying a heated fluid to one of said compartments and around the coils therein, and a burner within another of said compartments for heating the coils therein.

1,679,769. EGG CANDLER. WALTER S. GUSTAFSON and EDWARD D. SMITH, Manor, Tex. Filed Jan. 15, 1926. Serial No. 81,480. 1 Claim. (Cl. 99—6.)



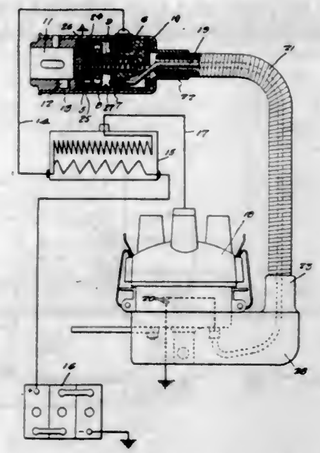
In an egg candling apparatus of the class described including a slotted casing, a means for candling a plurality of eggs passed slowly below the slot in said casing, and a means for marking the candled eggs according to their quality, said means comprising a pair of stamps suspended in said casing and displaceable in the slots thereof, collars on said stamps, springs resting with their lower ends upon said collars and wound about said stamps, abutting with their upper ends the casing wall, and curved handles for said stamps for operating the same and for normally keeping the same suspended in the casing by resting on the top of said casing.

1,679,770. METHOD AND APPARATUS FOR STENCILING. DALTON M. GORTACHUS, Canonsburg, Pa., assignor to Radium Dial Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Feb. 26, 1926. Serial No. 90,831. 16 Claims. (Cl. 101—114.)



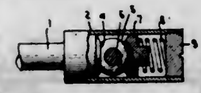
6. The method of stenciling, which includes placing a blank to be stenciled against a paint container having a stencil opening formed therein, tilting the container to effect a stenciling operation, removing the stenciled blank and reducing the pressure within the container to clear the stencil opening of paint.

1,679,771. IGNITION SYSTEM. WILSON HEMINGWAY, Jr., Philadelphia, Pa., assignor to The Electrolock Manufacturing Company, Vicksburg, Miss., a Corporation of Mississippi. Filed July 7, 1925. Serial No. 42,058. 7 Claims. (Cl. 123—146.5.)



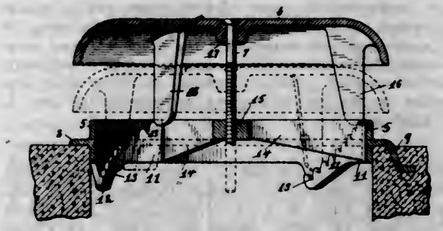
1. The combination in an ignition circuit and a lock therefor, of a metallic casing which encloses the lock and switch, a metallic casing which is in contact with the timer-distributor casing, and armor which connects said casings, whereby, when the switch is grounded, the metallic casings and armor form a path for a ground.

1,679,772. METHOD OF MAKING BEARINGS. CARL W. JOHNSON, Shaker Heights, Ohio, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Apr. 16, 1925, Serial No. 23,532. Divided and this application filed Jan. 3, 1927. Serial No. 158,785. 4 Claims. (Cl. 29—149.5.)



1. In a method of making a partly spherical bearing, the steps which consist in forming a plurality of lubricant-receiving pockets in a relatively thin sheet of bearing metal, pressing such sheet into a recess in an element and then deforming said element to engage and lock the edges of said sheet in place.

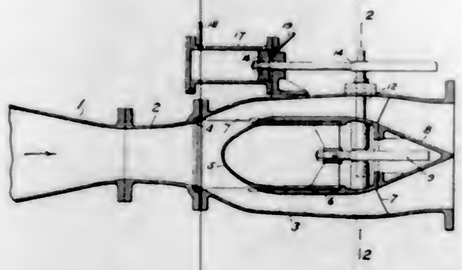
1,679,773. VENTILATING DEVICE. ARTHUR F. KNOWLES, Upper Montclair, N. J. Filed Oct. 6, 1926. Serial No. 139,817. 2 Claims. (Cl. 98—37.)



1. In a device of the character set forth, a hollow cylindrical base, a plurality of series of ascending serrations disposed spirally on the annular interior of said

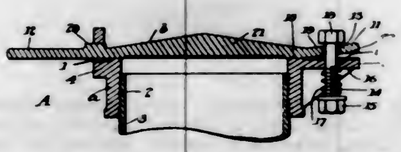
base concentrically thereto and below the upper edge thereof, a bodily rotatable cover located above said base, downwardly projecting legs on said cover, arranged to coact with said serrations to support said cover and permit the rotative adjustment thereof vertically relatively to said base, and a screw connecting said cover to said base and serving to hold said legs in engagement with said serrations.

1,679,774. VALVE. CHESTER W. LARNER, Philadelphia, Pa. Filed July 24, 1923. Serial No. 653,428. 6 Claims. (Cl. 137—139.)



1. A valve including in combination a Venturi tube, a plunger located in and confined to the expanding leg of the tube and pointing upstream, there being space provided between the throat of the tube and the nose of the plunger in all positions thereof to afford undisturbed flow in the throat, and means for seating and unseating the plunger.

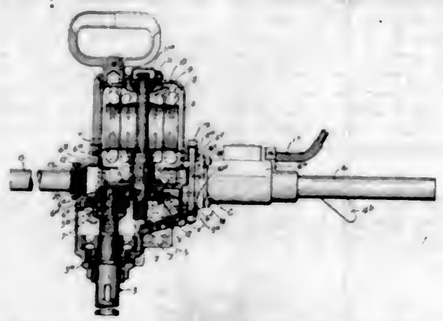
1,679,775. COVER. ANDREW LOCHOK, Los Angeles, Calif. Filed July 26, 1926. Serial No. 124,884. 1 Claim. (Cl. 220—35.)



In a device of the character disclosed, a hatch-way formed with a seat, a cover therefor adapted to cooperate with said seat, said hatch-way being formed with a catch portion and said cover being formed with a latch arm adapted to cooperate with said catch, a lug formed at an angle to the plane of the cover, and a second lug formed on said hatch-way, and means between the last named lugs for maintaining the hatch-way and cover in cooperative relation; said means including a resiliently actuated member normally tending to draw said lugs together to tip the said cover relative to the seat of the hatch-way.

1,679,776. PORTABLE TOOL. LEON F. MEUNIER, Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 14, 1925. Serial No. 15,606. 15 Claims. (Cl. 172—36.)

14. A power tool of the portable or hand type comprising a two pole A. C. induction motor adapted to operate on current at a frequency of 120 cycles or more, a spindle, a transmission to enable said spindle to be

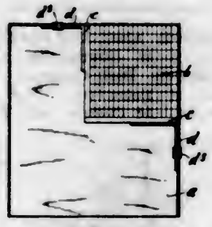


rotated by said motor, and manual supporting means disposed at a point substantially intermediate said motor and said transmission.

1,679,777. PROCESS OF TREATING WATER. ARTHUR R. MOBERG, Elmhurst, Ill., assignor, by mesne assignments, to National Aluminate Corporation, Chicago, Ill., a Corporation of Delaware. Filed Dec. 23, 1926. Serial No. 156,767. 13 Claims. (Cl. 210—23.)

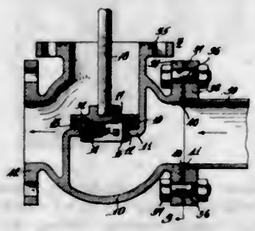
1. The process of purifying and clarifying water which comprises adding sodium aluminate and aluminum sulphate to the water to be treated, the sodium aluminate being in relatively small quantities as compared with the aluminum sulphate.

1,679,778. LOCKING DEVICE FOR GALLEYS. FRANCIS J. NUGENT, Astoria, N. Y. Filed Aug. 18, 1927. Serial No. 213,747. 2 Claims. (Cl. 101—404.)



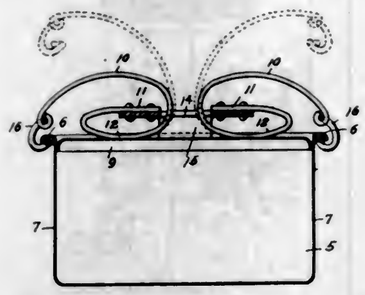
1. A galley clamp comprising means to engage the type to be secured, means to engage a galley, and a spring finger carried by the last means to engage the galley frictionally to secure the type in a desired position.

1,679,779. VALVE AND FLANGED SEAL. WILLIAM F. OBERHUBER, Landsdowne, Pa. Filed Apr. 8, 1926. Serial No. 100,560. 14 Claims. (Cl. 251—167.)



5. A valve body having a diaphragm containing a threaded opening and having a plain face about the opening in combination with a valve seat threaded into the opening, having a flange and annular teeth upon the flange on the side toward the plain face, abrupt at the edges toward the pressure and having very narrow engagement with the plain face at these edges.

1,679,780. HAM BOILER. OTHO M. OTTE, Tarentum, Pa., assignor to Allegheny Steel Company, Brackenridge, Pa., a Corporation of Pennsylvania. Filed Apr. 1, 1925. Serial No. 19,867. 3 Claims. (Cl. 100—57.)



1. A cooking utensil having in combination a container, a telescoping lid, a pair of springs adapted to press upon said lid, a connecting plate for securing the adjacent ends of said springs together, means for attaching the outer ends of said springs to said container so as to cause said lid to compress the contents thereof and means on said plate for balancing said lid.

1,679,781. ROTARY TIME SWITCH. JERRY W. PEYTON and JOHN E. LIPSCHULTZ, Washington, D. C.; said Peyton assignor to said Lipschultz, Washington, D. C. Filed July 20, 1927. Serial No. 207,143. 3 Claims. (Cl. 200—36.)

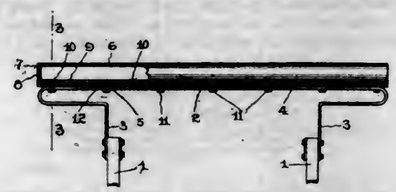


1. In combination with the hour hand of a clock, a switch including upper and lower ring members mounted for rotary movement over the face of the clock, said ring members being constructed of fibrous material, a segmental contact member carried by each ring member, one of said ring members having a groove, means for guiding the hour hand from one of the contact segments into the groove, and means for directing the hour hand from the groove to the upper surface of the ring member supplied with the groove.

1,679,782. AUTOMOBILE BUMPER. JOHN WILLIAM POSTEL, Palisade, N. J. Filed Feb. 4, 1927. Serial No. 165,809. 1 Claim. (Cl. 293—55.)

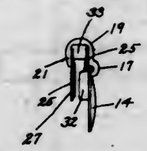
A device of the character described comprising a bumper supporting bracket provided with laterally extending arms for attaching same to a vehicle chassis, a cushioning tube, a longitudinally extending reinforcing strip disposed within said cushioning tube, and a

plurality of attaching bolts mounted in said bracket and engaging said tube and reinforcing strip for fastening said tube in detachable relation to said aforesaid bracket,



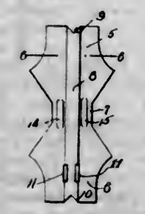
said reinforcing strip being provided with a rib adapted to be embedded in said tube to prevent the movement of the respective engaging members thereof.

1,679,783. SLIDE CONSTRUCTION. GEORGE EDWARD PRENTICE, Berlin, Conn. Filed Aug. 29, 1924. Serial No. 735,014. 13 Claims. (Cl. 24—205.)



5. A slider for fasteners of the class described, said slider comprising an integral piece of sheet material having wide end portions or wings united at one end by a relatively narrow neck bent to bring the wing portions into substantially parallel relation, each wing being furnished with an integral reinforcing rib extending from its free end toward the neck portion, and a pull device for actuating the slider.

1,679,784. SLIDER FOR FASTENERS AND PROCESS OF MAKING THE SAME. GEORGE E. PRENTICE, Berlin, Conn. Filed Dec. 30, 1926. Serial No. 157,952. 20 Claims. (Cl. 24—205.)



1. A slider for separable fasteners of the class described comprising spaced wings of sheet material united at one end by a neck, and a fold in the material of said neck constituting a projecting stiffening rib.

1,679,785. TOOTHBRUSH. GILBERT F. QUINN, Beachmont, Mass. Reflled for abandoned application Serial No. 717,820, filed June 4, 1924. This application filed Oct. 26, 1927. Serial No. 228,796. 2 Claims. (Cl. 15—167.)

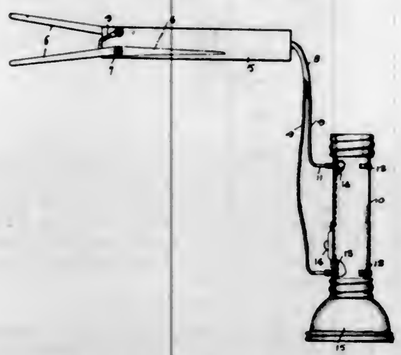
1. A tooth-brush comprising an oblong back, a handle longitudinally alined therewith, so that the back and handle have a common longitudinal median line, and flexible brush material projecting from the inner face of the back and disposed in an inner and an outer series of substantially parallel oblong rows whose sides are substantially perpendicular to the back face from which they project, said rows being spaced apart to provide refuse channels between their adjacent sides, the rows of the outer series extending obliquely in one direction from the

outer end portion to the midlength portion of the back, while the rows of the inner series extend obliquely in a different direction from said midlength portion to the inner end portion of the back, the arrangement being such that when the back is reciprocated endwise, refuse dislodged by the sides of said rods, is delivered to said chan-



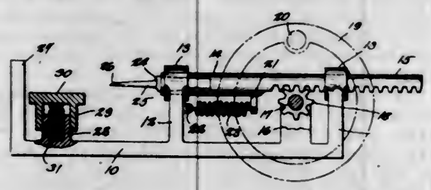
nels and passes therethrough toward the longitudinal edges of the back, one series of rows, and the channels formed thereby, acting to dislodge and deliver such refuse at one longitudinal edge of the back, when the back is moved in one direction, and the other series acting similarly, when the back is moved in the opposite direction.

1,679,786. CIRCUIT TESTER. ABRAHAM M. ROBERTS, Osgood, Ind. Filed Sept. 23, 1925. Serial No. 58,155. 2 Claims. (Cl. 175—183.)



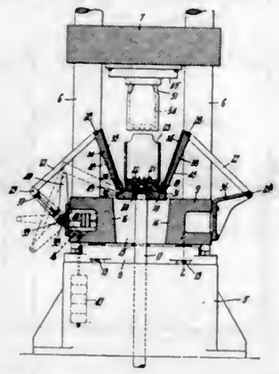
1. A circuit tester of the character described, comprising a hand flash light including a casing designed to receive a dry cell, and having a pair of apertures formed therethrough, conductor elements within said casing each one thereof arranged adjacent one of said apertures and one of said elements having an electrical engagement with said cell, an incandescent lamp arranged between the other pole of said cell and said other conductor element, a pair of resilient band members designed to be engaged about said casing, a contact post carried by said bands and each adapted to have one end extended through an adjacent casing aperture for engagement with a conductor element, and flexible conducting elements each leading from one of said contact posts, substantially as and for the purpose described.

1,679,787. OYSTER OPENER. ADOLF SCHERMER, Baltimore, Md. Filed Dec. 10, 1927. Serial No. 239,064. 2 Claims. (Cl. 17—10.)



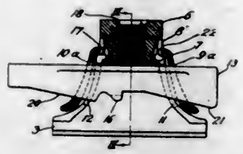
1. In an oyster opener, a base having a stop mounted thereon, an oyster supporting table mounted upon the base adjacent said stop and movable along the stop, a horizontal movable tool bar mounted upon the base, a chisel movable over and from said table and carried by said bar, and means to actuate said bar.

1,679,788. MOLD. LOUIS J. SCHROEDER, Watertown, Mass., assignor to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed May 7, 1927. Serial No. 189,683. 13 Claims. (Cl. 18—19.)



1. A machine for forming articles from plastic material having, in combination, a base, a mold retaining member yieldingly mounted upon said base, a bottom plate adapted to rest in its lowermost position upon said base, a plurality of side plates pivotally attached at their lower ends to said bottom plate and operatively connected at their upper ends to said retaining member, means to move said bottom plate to successively close and open said side plates, and a form adapted to co-operate with said plates to mold an article therebetween.

1,679,789. CLAMP FOR TROLLEY CONDUCTORS. HERMANN SCHUTTE, Pittsburgh, Pa. Filed Aug. 6, 1925. Serial No. 48,468. 5 Claims. (Cl. 191—43.)

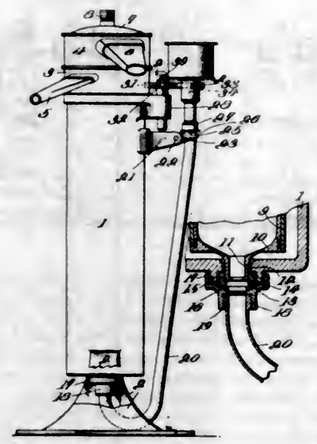


1. A hanger for trolley conductors, comprising clamping ears adapted to receive and clamp a trolley conductor, a supporting member mounted in the upper portions of the ears, a yoke mounted on and movable relatively to the ears, and a wedge engaging said member and so located in the yoke as to lock the parts in operative position.

1,679,790. CENTRIFUGAL SEPARATOR. DAVID T. SHARPLES, West Chester, Pa., assignor to The Sharples Separator Company, West Chester, Pa., a Corporation of Pennsylvania. Filed Mar. 21, 1925. Serial No. 17,316. 9 Claims. (Cl. 233—21.)

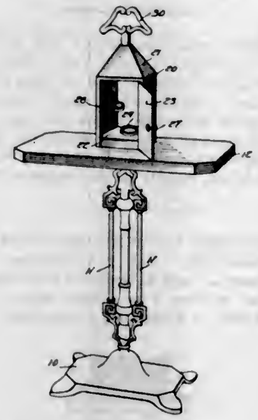
1. In a centrifugal separator, a rotatable bowl, a stationary jacket, a bottom boss on said bowl, a drag bush loosely surrounding said boss, a feed tube engaging said drag bush, and means to force said feed tube upward to frictionally engage said drag bush.

8. In a centrifugal separator, a jacket, a metal bowl rotatively suspended in said jacket and having a boss at the lower end thereof, a non-metallic drag bush surrounding said boss and guiding said bowl in its rotations, said drag bush being formed wholly of laminated phenolic condensation material, which is lighter than the material of the bowl and which is permanently impervious to moisture



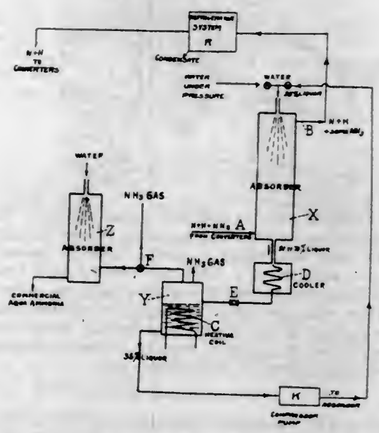
and the material treated in the bowl, and means for engaging the drag bush for retarding the lateral movement thereof.

1,679,791. SMOKER'S STAND. PHILIP SILBERHARTZ, Brooklyn, N. Y., assignor to Majestic Lamp Works, New York, N. Y., a Partnership composed of said Philip Silberhartz, Jacob Silberhartz, and Harry Scheiner. Filed Feb. 6, 1928. Serial No. 252,326. 4 Claims. (Cl. 211—133.)



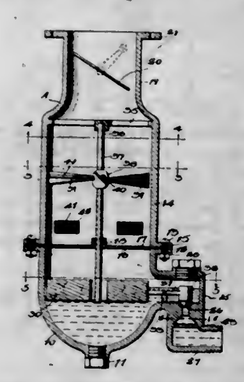
3. A smoker's stand comprising a base, a standard, an apertured table member resting on the standard, a threaded rod carried by the standard and extending upwardly through the table member, a washer above the table member, and a cabinet in the form of a box having side walls, a side door, a bottom, and a bushing carried by the lower side of the bottom, the lower edges of the side walls extending below the bushing, the bushing being threaded onto the upper end of he rod and brought down against the washer, to place the lower edges of the cabinet walls close to the table member, the bushing and washer being hidden by the surrounding side walls.

1,679,792. PROCESS OF REMOVING AMMONIA FROM SYNTHESIS GASES. ROLAND EDGAR SLADE, Billingham-on-Tees, and KENNETH GORDON, Stockton-on-Tees, England, assignors to Atmospheric Nitrogen Corporation, Solvay, N. Y., a Corporation of New York. Filed Jan. 28, 1926, Serial No. 84,322, and in Great Britain Jan. 30, 1925. 5 Claims. (Cl. 23—199.)



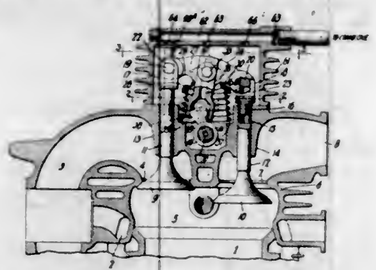
1. The process of removing ammonia from compressed synthesis gases which consists in scrubbing the gases at high pressure with an aqueous medium in limited amount so as to form a solution containing from about 50% to 70% of ammonia (NH_3).

1,679,793. CARBURETOR. GEORGE L. SMITH and ORAL C. SMITH, Cleveland, Idaho. Filed May 29, 1923. Serial No. 642,280. 2 Claims. (Cl. 261—91.)



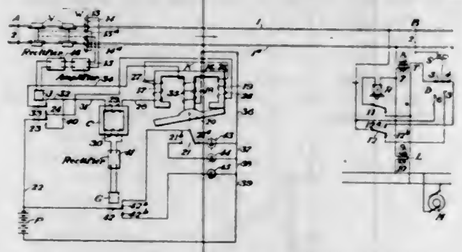
1. A carburetor comprising a fuel bowl, means for controlling the level of liquid in said bowl, a mixing chamber connected with the upper end of the bowl, a plate with multiple perforations disposed between the mixing chamber and bowl having an axial shaft bearing formed therein, a spider carried by the upper end of the mixing chamber, a hollow propeller shaft rotatably carried by the bearings of the plate and spider and having its lower end extending into the fuel bowl, radial blades carried by the hollow propeller shaft, hollow spraying tubes carried by the blades and communicating with the bore of the propeller shaft, and a throttle valve arranged above the propeller, the mixing chamber having screened air inlet openings formed therein below said propeller.

1,679,794. VALVE GEAR. WILLIAM F. SMITH, Poughkeepsie, N. Y., assignor of one-half to Herman A. Schatz, Poughkeepsie, N. Y. Filed Nov. 9, 1925. Serial No. 67,884. 14 Claims. (Cl. 123—90.)



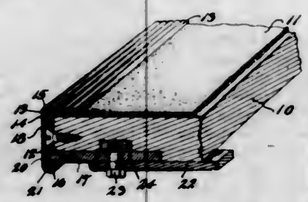
12. A valve gear, two valves, stems for said valves, valve-operating mechanism comprising a lever engaging at its two ends said stems, a spring bearing against the centre of said lever, a shaft for rocking said lever, a cam, a lifter cooperating therewith, a push rod connecting said lifter with said shaft, and a second spring opposing the movement of said lifter, said springs being so proportioned that they jointly tend to overcome the inertia of said valve-operating mechanism.

1,679,795. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. CLARENCE S. SNAVELY, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Jan. 6, 1927. Serial No. 159,300. 8 Claims. (Cl. 246—63.)



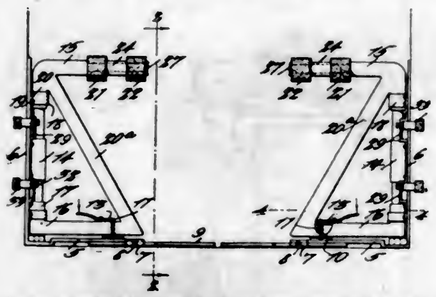
1. In combination, a relay comprising a core having a first magnetic circuit, a magnetized member on the core forming a part of two other magnetic circuits, means for creating in the first magnetic circuit alternately reversed surges of magnetic flux of unequal lengths, and a movable member responsive to the relative average values of the fluxes in the said two other magnetic circuits.

1,679,796. FASTENING FOR RUNNING-BOARD MOLDING. WALTER J. SPIRO, White Plains, N. Y. Filed Aug. 5, 1926. Serial No. 127,329. 7 Claims. (Cl. 280—163.)



1. A fastening for molding strips comprising a support having an interlocking member and a longitudinally movable key device at its opposite edges, and a molding strip formed with means engaging said member and device.

1,679,797. CASKET SUPPORT AND TRANSFER. SAMUEL C. SWEIGART, Linglestown, Pa. Filed Mar. 10, 1927. Serial No. 174,262. 3 Claims. (Cl. 193—42.)



1. In a casket support and transfer, adjustable frames consisting of bases and standards, each of said bases having camming upper surfaces and latch seats, an upright element rotatably mounted on each of the frames, an arm extending outwardly from the rotatable element near its upper end, means for bracing the structure, means for holding the rotatable element against movement, rollers on each arm in spaced relation to each other, and means for holding the rollers assembled on the said arm.

1,679,798. WASHING MACHINE. ALFRED SWENSEN, Riverside, Ill. Filed June 20, 1921. Serial No. 478,778. 6 Claims. Cl. 259—75.)



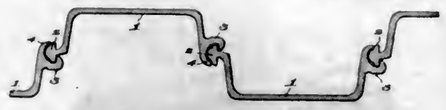
2. A washing machine comprising a tub, and means for imparting to the clothes in said tub a back and forth movement, and also a movement of rotation about a substantially vertical axis, said last means comprising two projections, one on each side of the tub, each projection having an inclined portion along which the clothes slide easily in one direction, and an abrupt shoulder to hinder the movement of the clothes in the opposite direction.

1,679,799. SUPPORT CONSTRUCTION FOR ELECTRICAL APPLIANCES. DON N. THOMPSON, Syracuse, N. Y., assignor to Pass & Seymour Inc., Solvay, N. Y., a Corporation of New York. Filed May 9, 1924. Serial No. 712,082. 1 Claim. (Cl. 173—362.)



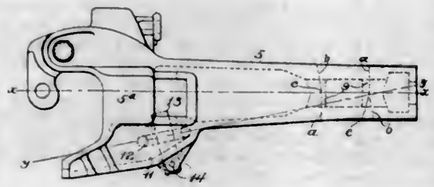
A support construction for electrical appliances comprising a nipple formed with an annular, peripheral groove at its inner end, and with a notch intersecting the groove, and also with a shoulder above and spaced from the groove, a ring member having its inner margin extending into the groove of the nipple and a tongue extending into the notch, the ring member being formed with threaded openings for receiving the fastening screws of the appliance, a sheet metal shell in the form of a canopy having its upper end thrusting against said shoulder and being formed between its ends with a shoulder thrusting against the upper face of the ring member.

1,679,800. SHEET PILING. JULIUS R. WEMLINGER, Brooklyn, N. Y. Filed Jan. 29, 1927. Serial No. 164,504. 2 Claims. (Cl. 61—62.)



1. A retaining wall of sheet piling, comprising a plurality of identical trough-shaped rolled sections, each section having a rounded T head on one edge and an open mouth socket on the other edge, whereby the sections can be engaged laterally and the front and back depth of the wall can be doubled by reversing alternate sections.

1,679,801. DRAFT CONNECTION FOR CAR COUPLINGS. HARRY H. WOLFE, Columbus, Ohio, assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Filed Feb. 10, 1927. Serial No. 167,262. 5 Claims. (Cl. 213—69.)



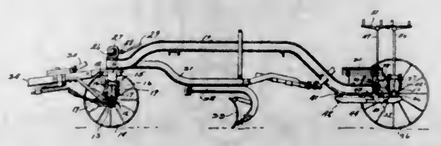
1. In draft means for railway cars, the combination with a draft yoke adapted to receive a transverse key, of a draw-bar having a key slot, a key passing transversely through the yoke and through the slot in the draw-bar, the rear end wall of said slot providing two pulling faces for the key, disposed at an angle to each other.

1,679,802. FROST-PROOF GUARD. ALBERT H. ALLERHEILIGEN, LEWIS F. CRAIN, and CHRIS ERICHSEN, Missouri Valley, Iowa. Filed Jan. 25, 1928. Serial No. 249,335. 1 Claim. (Cl. 20—40.5.)



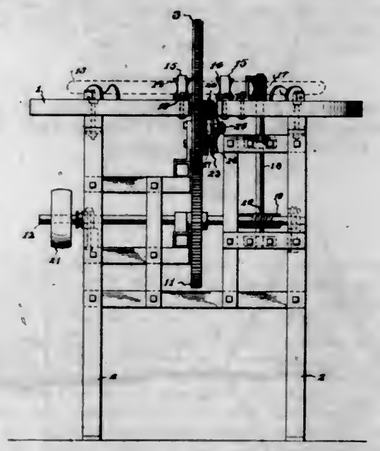
In a frost-proof guard, a frame having dovetailed grooves on its sides, cushions anchored in the grooves and adapted to be forced into engagement with a plate of glass, an L-shaped flange carried by the frame, a transparent plate embraced by said flange, a packing strip interposed between a portion of the flange and the said plate, arms projecting from the frame, said arms having slotted ends, suction cups, threaded shanks anchored to the suction cups and projecting into the slots, and nuts threaded on the shanks for binding the suction cups and arms together.

1,679,803. LEANING-WHEEL GRADER. FRANKLIN E. ARNDT, Galion, Ohio, assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio, a Corporation of Ohio. Filed Oct. 25, 1927. Serial No. 228,672. 7 Claims. (Cl. 37—157.)



6. A leaning wheel grader including a framework consisting of flexibly connected sections whereby the frame may be angled, a rear axle, and means for automatically swinging the rear axle to an oblique angular position relative to the longitudinal axis of the machine by and upon the angling of the frame.

1,679,804. WIRE-WINDING MACHINE. WILBER S. BISEL and OTHELLO J. BISEL, Atchison, Kans., assignors of one-half to George Baudry, Atchison, Kans. Filed Jan. 26, 1927. Serial No. 163,785. 3 Claims. (Cl. 242—4.)

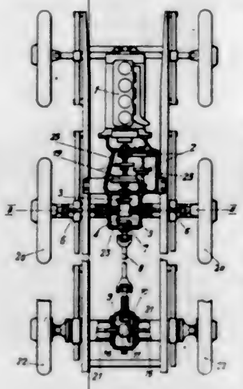


1. A winding machine of the character specified, comprising horizontally disposed rollers for supporting the work, vertically disposed rollers adapted to receive the work therebetween and adjustable laterally to provide for the ingress and the egress of the work, a rotary carrier and a reel mounted upon the carrier and rotatable therewith to carry the strand and wind it about the the work.

1,679,805. THREE-AXLED MOTOR VEHICLE. HEINRICH BLUMER, Zurich, Switzerland. Filed Dec. 2, 1926, Serial No. 152,206, and in Switzerland Dec. 12, 1925. 5 Claims. (Cl. 180—22.)

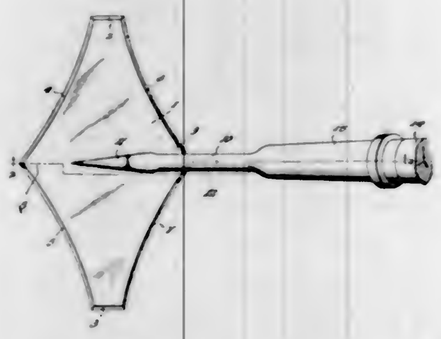
1. In a three-axled motor vehicle having approximately equidistant axles, a wheel drive transmission mechanism for driving the pairs of wheels of the middle and rear

axle, comprising in combination, a change speed gear enclosed in a box fixed to the vehicle frame and operatively connected to the driving motor, a shaft extending in the longitudinal direction of the vehicle, transverse Cardan shafts operatively connected to the wheels of the middle axle, a bevel wheel gearing interposed between



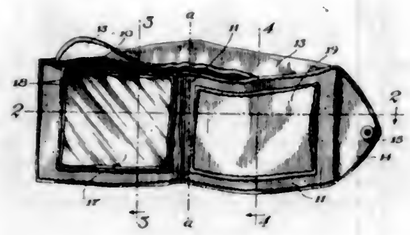
the change speed gear and said longitudinal shaft and operatively connected to said transverse Cardan shafts, and an operative driving connection between the wheels of the rear axle and said longitudinal shaft, said bevel wheel gearing being arranged in a casing rigidly and directly connected to the change-speed gear box.

1,679,806. GARDEN IMPLEMENT. JOHN H. BOCKSTADTER, Hastings, Nebr. Filed Mar. 26, 1927. Serial No. 178,706. 3 Claims. (Cl. 97—68.)



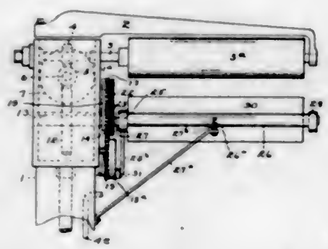
1. A hoe comprising a blade, a shank extending upwardly and rearwardly from said blade in spaced relation to the rear edge thereof, said blade having sharpened front and rear edges each having portions converging from the ends of the blade towards a point intermediate the width thereof and intersecting to form a forward penetrating point in front of said shank and a rear penetrating point beneath the shank, and a web extending between said shank and the tapered rear portion of the blade and constituting an auxiliary blade having a sharpened rear edge.

1,679,807. COMBINED CHECK-BOOK HOLDER AND BILL FOLD. ALEXANDER LEWIS BOHL, Medford, Oreg. Filed Mar. 14, 1923. Serial No. 625,113. 1 Claim. (Cl. 150—38.)



A bill-fold of the character described having two flexible walls secured to each other at their ends and along the lower edge to thereby form a bill compartment extending longitudinally of the entire length of the bill-fold, one of the walls of the bill compartment having a flap extending longitudinally the entire length of the wall, the inner wall of the bill-fold upon its inner face and adjacent one end having a longitudinally extending check book engaging pocket less than one-half the length of the bill-fold and open at its outer end, that end of the bill-fold adjacent the open end of the check book engaging pocket having a flap folding over upon the exterior face of the bill-fold when the bill-fold is folded, the body of said bill-fold and said last named flap each having complementary fastening members.

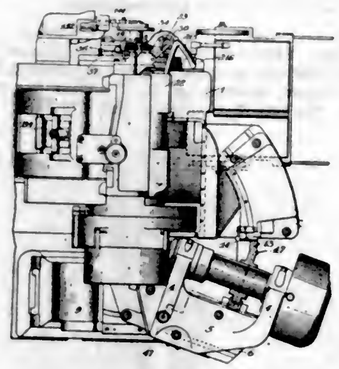
1,679,808. IRONING MACHINE. THOMAS N. BROWN, Fort Wayne, Ind. Filed Aug. 16, 1926. Serial No. 129,300. 7 Claims. (Cl. 68—9.)



1. In an ironing machine, the combination of two cooperating revoluble rolls one of which is bodily movable toward the other, a driven member, a member adapted to be driven by the driven member and having a pivotally mounted support, a revoluble drum and a member having operative connection to the bodily movable roll and adapted to frictionally engage the drum for causing the said roll to move toward the other roll and to cause it to operatively connect to the member having a pivotally mounted support.

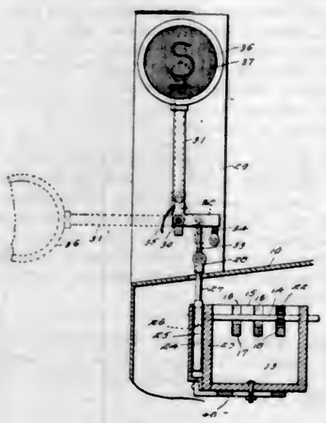
1,679,809. GEAR-GRINDING MACHINE. EDWARD W. BULLOCK and ALTON P. SLADE, Rochester, N. Y., assignors to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed July 5, 1924. Serial No. 724,356. 47 Claims. (Cl. 57—52.)

1. In a machine for grinding, curved tooth tapered gears, the combination with a rotary annular grinding member having a cross section conforming to a straight sided rack tooth and with unbroken tooth engaging grinding faces and blank support, of a bed on which the grinding member is mounted, said bed being intermittently movable away from the blank support to permit indexing the blank, and automatic mechanism for imparting to



the blank support a translatory movement and also a partial rotation about its axis whereby to roll the blank past the grinding member during operation of the latter.

1,679,810. SIGNALING DEVICE FOR AUTOMOBILES. WILLIAM J. BURT, Holland, Mich. Filed Mar. 3, 1928. Serial No. 258,980. 4 Claims. (Cl. 116—53.)

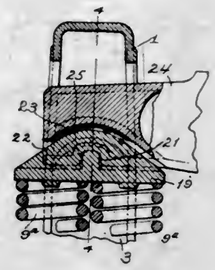


1. In combination with a vehicle including a cowl, a casing arranged beneath the cowl, a shaft rotatable in the casing, a bar reciprocatable in the casing and having connection with the shaft whereby the shaft is rotated as the bar is reciprocated, a vertically extending bar guided by the casing and at its upper end projecting through an opening in the cowl, a connection between said last named bar and the shaft whereby the bar is vertically shifted when the shaft is rotated, and a signal operated by the upper end of the bar.

1,679,811. CAR-TRUCK CONSTRUCTION. SAMUEL P. BUSH, Columbus, Ohio, assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Filed Jan. 4, 1927. Serial No. 158,951. 3 Claims. (Cl. 105—187.)

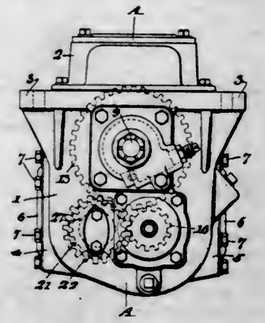
3. In a car truck, the combination of a side frame having columns defining a bolster opening, a bolster entering said opening and having a longitudinal arcuate groove and a transverse groove in its bottom, a spring

plank, springs below the bolster, and a cap mounted on said springs, said cap having an arcuate rib projecting upwardly and freely entering the arcuate groove in the



bottom of the bolster and said cap also having a transverse rib entering the transverse groove in the bottom of the bolster, and forming a support for the bolster.

1,679,812. TRANSMISSION GEARING. GEORGE C. CARHART, Syracuse, N. Y., assignor to Brown-Lipe Gear Company, Syracuse, N. Y., a Corporation of New York. Filed Nov. 7, 1923. Serial No. 673,246. 1 Claim. (Cl. 74—58.)

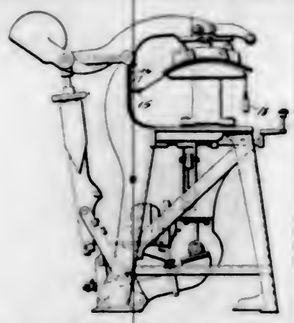


In a transmission gearing of the sliding gear type comprising a gear case, axially alined driving and driven shafts journalled in the end walls of the casing, a countershaft journalled in the end walls of the case and arranged below the driving and driven shafts, and intermediary gearing mounted on a stud adjacent one end wall of a case near the countershaft, and shifter mechanism supported in the case above the driving and driven shafts, the combination with such gear casing having its side walls located substantially equidistant from the vertical median plane of the case containing the axis of the driving and driven shafts, the countershaft being offset at one side of such median plane, and the intermediary gearing being mounted below the driving and driven shafts at one side of the countershaft and at the opposite side of said plane from that on which the countershaft is located whereby the side walls of the case are located equidistant from said vertical plane.

1,679,813. PRESSING-MACHINE PLAITING ATTACHMENT. SERVATIUS R. CHRIST and PHILIP N. BRAUN, Syracuse, N. Y., assignors to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed May 19, 1926. Serial No. 110,046. 1 Claim. (Cl. 68—9.)

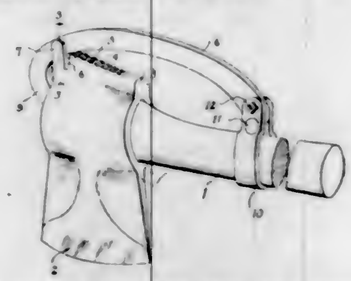
A pressing machine comprising upper and lower cooperating pressing elements, one of which is movable toward

and from the other, and means for holding the work on the lower element comprising a flexible strap ar-



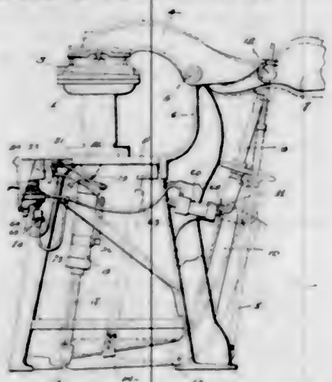
ranged to extend transversely of the lower element, said strap being secured at its rear end and having a weight at its front end.

1,679,814. COMBINED CANT HOOK AND AX. WILLIAM A. CICERO, Birchdale, Minn. Filed June 4, 1927. Serial No. 196,545. 3 Claims. (Cl. 7—8.)



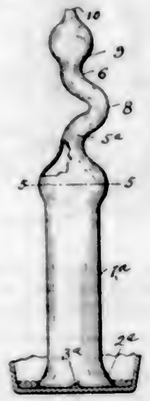
3. An implement comprising an ax head provided adjacent the forward end of its back with a clip, a helve fitted to the ax head, a clamp on the helve, a cant-hook pivoted to the clamp and adapted to extend over and engage the forward edge of the ax head, and positive interengaging means between the hook and clip.

1,679,815. ACTUATING MECHANISM FOR PRESSING MACHINES. ERNEST DAVIS, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Oct. 5, 1926. Serial No. 139,726. 12 Claims. (Cl. 68—9.)



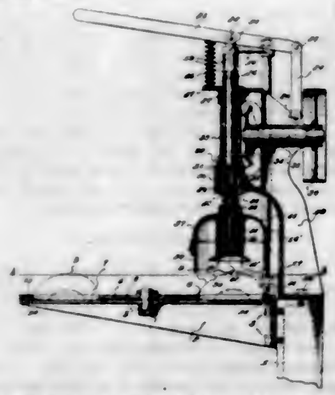
1. In a pressing machine, cooperating pressing elements, one of which is movable toward and from the other, means for actuating the movable element including power means, motion transmitting mechanism between the power means and the movable element, operator actuated means for controlling the actuation of the power means and additional operated controlled means for varying the power delivered through said mechanism.

1,679,816. VAPORIZING INHALER. FRANK C. DORMENT, Wellington, Ohio, assignor of one-half to Albert T. Fletcher, Washington, D. C. Filed Oct. 29, 1925. Serial No. 65,537. 1 Claim. (Cl. 128—186.)



A vaporizing inhaler comprising a tubular body portion having an open outwardly flared lower end portion adapted to rest upon the bottom of a container in which there is a small quantity of liquid the lower edge of said body portion having circumferentially spaced indentations forming passages permitting air and liquid to flow along the bottom of the container to the interior of the body portion, said body portion having an enlargement at its upper end forming an expansion chamber, and a tube of a diameter relatively small with respect to the body portion connected to the enlarged upper end of the body portion, said tube having a restricted discharge opening and an enlarged portion forming an expansion chamber adjacent the discharge opening, the discharge opening and enlargement being substantially vertically above said body portion, said tube being laterally bent between its enlarged portion and the body portion, to thereby form a tortuous baffle passage.

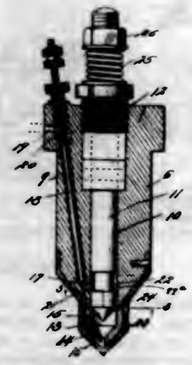
1,679,817. METHOD AND APPARATUS FOR TRIMMING FRUIT. ARTHUR L. DUNCAN, Piedmont, Calif. Filed Apr. 7, 1926. Serial No. 100,312. 18 Claims. (Cl. 146—1.)



2. A method of trimming fruit of irregular shape and having the core removed to form a hollow body, which

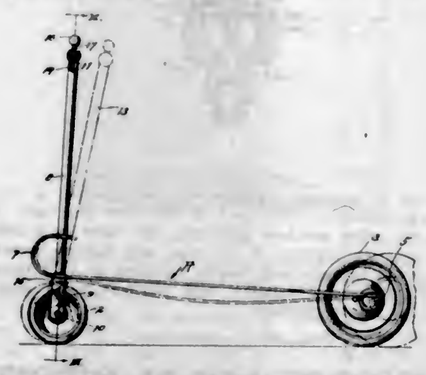
comprises subjecting said body to a pressure acting in a direction to cause the edges of the fruit to spread laterally, and trimming said edges while maintaining said pressure.

1,679,818. FUEL INJECTOR FOR INTERNAL-COMBUSTION ENGINES. JOHN W. ENRIGHT, New Orleans, La. Filed Jan. 5, 1925. Serial No. 628. 8 Claims. (Cl. 123—33.)



1. A fuel injector for internal combustion engines comprising an injector body adapted for insertion into the cylinder of the engine and having an air compression chamber, a fuel reservoir, a fuel passageway having means for supplying fuel thereto and through which air passes from the compression chamber to the reservoir, orifices being formed in the injector body and adapted to communicate with said compression chamber or said reservoir, and means operative to compress air in said chamber and to control the communication of said chamber and reservoir with said orifices.

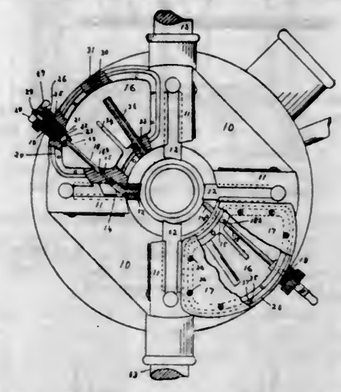
1,679,819. TOY VEHICLE. ROLLIE B. FAGEOL, Los Angeles, Calif. Filed Mar. 17, 1926. Serial No. 95,208. 9 Claims. (Cl. 208—38.)



1. A toy vehicle of the class described comprising a running gear, a vertically yieldable spring bar constituting the bed of said vehicle and being mounted at opposite ends of the running gear, and means whereby yielding movement of the spring bar is transmitted to propel the vehicle.

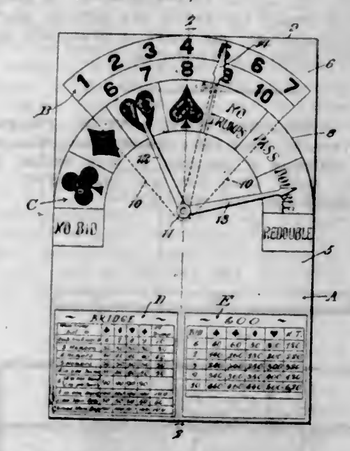
1,679,820. STOCK AND DIES WITH OILING DEVICE. ROCCO FERRO, Utica, N. Y. Filed Feb. 20, 1925. Serial No. 10,555. 3 Claims. (Cl. 10—126.)

1. In a stock and dies the combination of a stock casing with outwardly extending means for mounting said dies, dies mounted therein, a reservoir for lubricating oil located within said casing between adjacent die-holding means, a duct leading from said reservoir inwardly toward the die, a longitudinally slideable needle valve, mounted in said casing and having its inner end adapted to block the opening through said duct and having its outer end extending without the casing, a spring operatively connected to said valve tending to keep it yieldingly seated against said duct opening, and a swinging cam lever connected to



said valve and manually operable from without the casing and adapted to be set at one position to hold the valve open against said spring tension, and adapted in its other position to allow the valve to close under said spring tension and means interposed between said swinging lever and the casing and operative from without the device for varying the open position of the valve, such adjustment not being disturbed by the regular closing and opening of the valve by said swinging lever.

1,679,821. INDICATOR. CARTER B. FICKLEN, Fortress Monroe, Va. Filed Mar. 23, 1928. Serial No. 264,092. 1 Claim. (Cl. 273—148.)



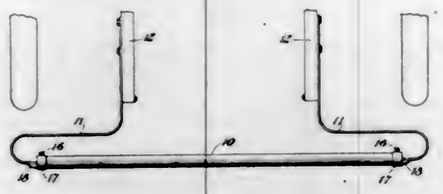
In a card game indicator, the combination with a board having a series of "trump" indicia thereon, said board including top and bottom superposed plates, and an intermediate plate, said "bid" indicia including a series of "trump" indicia and a series of "trick" indicia respectively arranged one on the bottom plate and the other on the top plate, the intermediate plate being provided with a quadrant shaped cut-out portion, and a pair of pointers fulcrumed on a common axis on said board for cooperation with the "trump" and "trick" indicia respectively, one of said pointers being movable in the cut-out portion of the intermediate plate.

1,679,822. SHORT-STRETCH COVERED ELASTIC THREAD. RAY C. HALL, Needham, Mass., assignor to Frank W. Gorse Co., Needham Heights, Mass., a Corporation of Massachusetts. Filed Feb. 28, 1927. Serial No. 171,673. 7 Claims. (Cl. 117—57.)



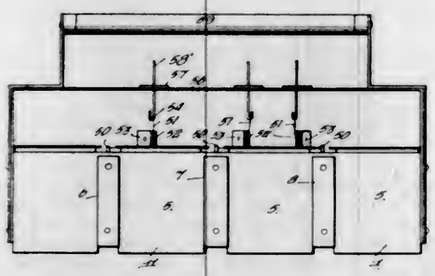
1. A short-stretch low-tension covered elastic thread having an elastic rubber thread characterized by being under but little tension when in repose and having a plurality of spirally-wound superimposed covers thereon applied one entirely outside the other, the inner covers having a greater pitch than the outermost cover.

1,679,823. AUTOMOBILE BUMPER. KENNETH LESTER HARRIS, New Brighton, Pa. Filed Feb. 7, 1928. Serial No. 252,579. 7 Claims. (Cl. 293—55.)



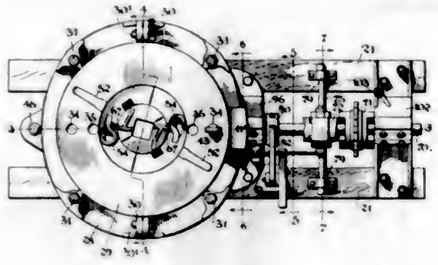
1. A vehicle bumper comprising, in combination, a buffer bar having slotted members associated with its opposite ends; flat spring arms adapted to be secured to the vehicle chassis and having end portions inserted in said slotted members; and means to secure said members and spring arms to said buffer bar.

1,679,824. BOTTLE-DELIVERY DEVICE. FREDERICK HELFENSTEIN, Jr., and JOHN HELFENSTEIN, Bismarck, N. Dak., assignors of one-third to John Nathan, Bismarck, N. Dak. Filed Feb. 17, 1926. Serial No. 88,808. 20 Claims. (Cl. 224—48.)



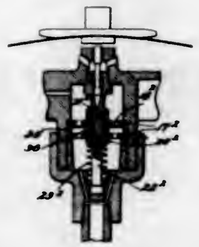
1. In a bottle carrier means for the simultaneous delivery of a plurality of bottles therefrom, said means embracing movable bottom members, said members being rotatable.

1,679,825. ROTARY WELL-DRILLING MACHINE. JULIUS H. HOLMGREEN and RICHARD J. HOLMGREEN, San Antonio, Tex., assignors to Alamo Iron Works, San Antonio, Tex., a Corporation of Texas. Filed June 23, 1923. Serial No. 647,384. 21 Claims. (Cl. 255—23.)



18. In a well drilling machine, a rotary table, means sustaining the weight of the table, means on the under side of the table for driving it, and a split ring having bearing engagement with the periphery of the table beyond said driving means, substantially as set forth.

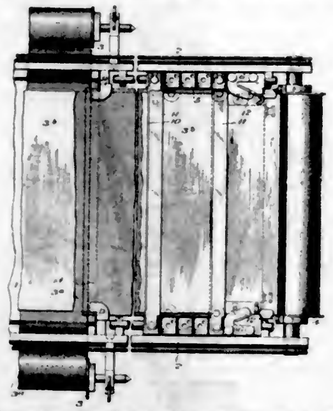
1,679,826. FLUID-PRESSURE REGULATOR. ALEXANDER FREDERICK JENKINS, Baltimore, Md. Filed Nov. 8, 1923. Serial No. 673,614. 8 Claims. (Cl. 50—23.)



4. In a pressure regulator, in combination, a gas passage having a valve seat, a valve for said seat, a pair of flexible members supporting the valve as a unit for movement axially of the seat, and spacing means interposed between said flexible members to hold them in slightly spaced relation, said members being unresponsive to gas pressure.

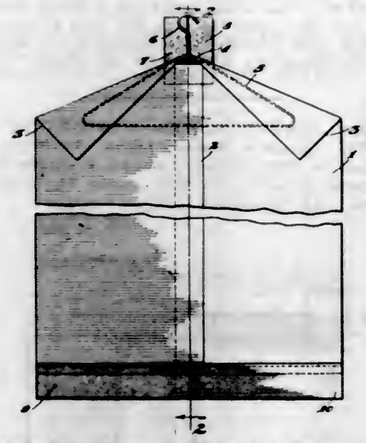
1,679,827. CARBON GUARD FOR MANIFOLDING MACHINES. ALFRED JENSEN, New York, N. Y., assignor to Elliott-Fisher Company, a Corporation of Delaware. Filed Dec. 31, 1925. Serial No. 78,682. 2 Claims. (Cl. 197—134.)

1. In a manifolding machine, the combination with a flat platen for supporting movable forms and interleaved cross carbons, of a carbon guard including a pair of superposed flexible flaps wider than said forms, and guard carrying means for supporting the guard intermediate two of the forms to receive the associated interleaved carbon between said flaps, the location of said carrying means being variable whereby the guard may be utilized either in the double capacity of a blind preventing printing on the subjacent forms and a guard separating intersecting edges of the said carbon and forms to prevent mutilation of the carbon by movement



of the forms, or in the single capacity of a guard for preventing mutilation of said edge in the manner aforesaid.

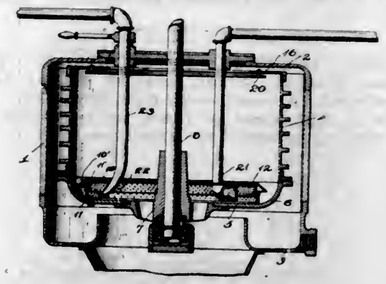
1,679,828. GARMENT BAG. SAMUEL J. JOHNSON, Cincinnati, Ohio, assignor to The Seinsheimer Paper Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 11, 1926. Serial No. 140,753. 1 Claims. (Cl. 206—7.)



A garment container formed from a tube, said tube having its upper and lower ends folded for closing the tube, the fold at the top providing edges inclined from a central point and providing an orifice at this point for protrusion therethrough of the hook of the hanger, and a slitted sticker secured at the rear of the container adjacent the orifice, the portions adjacent the slit adapted to straddle the hanger hook and to be folded and secured to the face of the container, said portions overlapping across the face of the container due to the folding thereof over the inclined upper edges of the container.

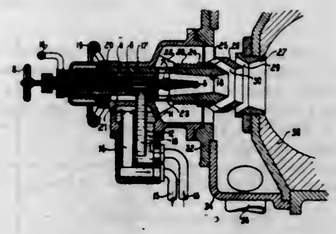
1,679,829. CENTRIFUGAL SEPARATOR. ERNST KOPKE, Honolulu, Territory of Hawaii. Filed Nov. 30, 1925, Serial No. 72,347. Renewed Dec. 23, 1927. 4 Claims. (Cl. 233—19.)

1. A centrifugal separator comprising a rotatable bowl having a cylindrical wall merged into the bottom by an inwardly inclined surface, an annular guide plate defining an antechamber adjacent said inclined surface,



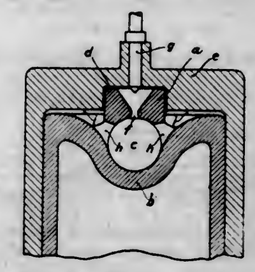
and means for adjusting said guide plate vertically to vary the space between the periphery of the same and said inclined surface.

1,679,830. LIQUID-FUEL BURNER. ADOLF LANG, The Hague, Netherlands. Filed July 24, 1925, Serial No. 45,872, and in the Netherlands July 28, 1924. 7 Claims. (Cl. 158—76.)



1. An oil burner comprising a casing, a primary burner cone longitudinally adjustable therein, a sleeve mounted within the primary cone, a fuel feed pipe passing through an elongated slot in the primary cone and seated in an opening in the sleeve, a nozzle tube formed with an opening to register with the fuel feed pipe, said tube being mounted for rotation to control the fuel inlet, and a nozzle carried by the nozzle tube.

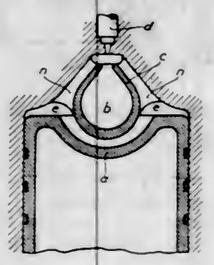
1,679,831. COMBUSTION POWER ENGINE WITH SELF-IGNITION. FRANZ LANG, Stuttgart, Germany, assignor to Acro Aktiengesellschaft, Kussnacht-on-the-Rigi, Switzerland. Filed Oct. 12, 1925, Serial No. 62,182, and in Germany Oct. 29, 1924. 6 Claims. (Cl. 123—32.)



1. In a combustion engine, a cylinder and a piston working therein, in combination with a combustion chamber arranged in the piston, a dislodging device between

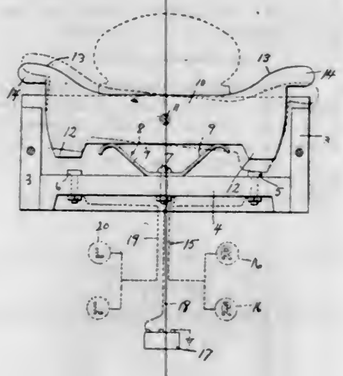
the cylinder and the piston and communicating with the combustion-chamber, and arranged to force the compressed air into said chamber, and a fuel injector arranged to inject fuel into the dislodging device.

1,679,832. COMBUSTION-POWER ENGINE. FRANZ LANG, Stuttgart, Germany, assignor to Acro Aktiengesellschaft, Kussnacht-on-the-Rigi, Switzerland. Filed Nov. 21, 1925, Serial No. 70,616, and in Germany Dec. 6, 1924. 11 Claims. (Cl. 123—32.)



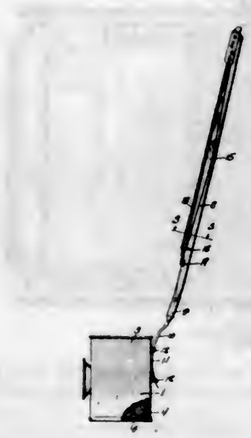
1. In a combustion-engine, a cylinder provided at its head with a fuel-injector and a combustion-chamber suspended within said cylinder, spaced from the walls thereof and provided with an opening for admitting compressed air from the cylinder and fuel from the fuel-injector, said combustion-chamber, being closed at all other points at the end of the compression stroke and the beginning of the expansion stroke of the piston.

1,679,833. CIRCUIT CLOSER FOR DIRECTION SIGNALS. EARL VIRGIL LAGGESON, Portland, Oreg. Filed Apr. 7, 1927. Serial No. 181,729. 2 Claims. (Cl. 200—59.)



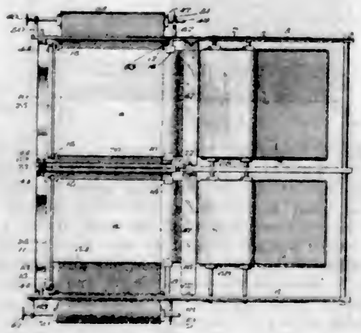
1. A circuit closer, comprising a support, a pair of contacts mounted at opposite ends of said support, a central contact member mounted in said support, and a rock lever pivotally mounted in said support and normally engaged and retained in one position by the central contact member, said lever being operable to engage either of said end contacts mounted in said support.

1,679,834. STRINGED MUSICAL INSTRUMENT. HERMAN M. LENTZ, Renville, Minn. Filed July 15, 1927. Serial No. 206,045. 4 Claims. (Cl. 84—274.)



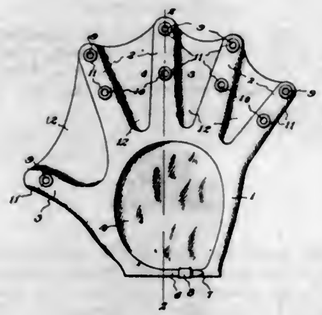
1. A stringed musical instrument comprising a sound box, a neck, resonant arms extending from the neck and connected to a wall of the sound box, a bridge upon the neck, a tail piece upon the neck, and keys at the upper end of the neck, and strings connected to the keys and to the tail piece and strung over the bridge.

1,679,835. DOUBLE-PLATEN MANIFOLDING MACHINE. LAURENCE EDWARD LENTZ, Harrisburg, Pa., assignor to Elliott-Fisher Company, a Corporation of Delaware. Filed Dec. 31, 1925. Serial No. 78,692. 15 Claims. (Cl. 197—126.)



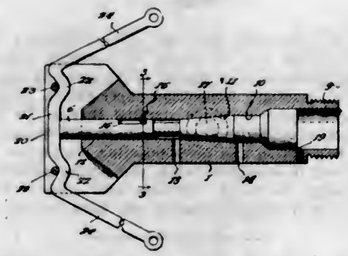
1. In a machine of the character described, the combination with a plurality of platens, of a single recording mechanism cooperating with said platens, carbon rolls located beyond the outer sides of the platens, and carbon clamping means located intermediate of the platens.

1,679,836. SWIMMING GLOVE. JOHN L. LINDER, Palo Alto, Calif. Filed Aug. 6, 1927. Serial No. 211,225. 4 Claims. (Cl. 9—21.)



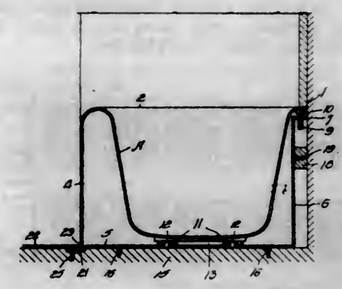
1. A swimming glove comprising a body adapted to fit about the hand and having thumb and finger stalls provided with openings to be closed at their inner ends by portions of the thumb and fingers of the wearer, sealing members of soft material encircling the outer ends of the openings and projecting from the outer surfaces of the stalls, and webs extending between said stalls.

1,679,837. AIR-BRAKE BLEEDER VALVE. CLYDE E. MARSHALL, Peach Creek, W. Va. Filed Apr. 28, 1927. Serial No. 187,262. 3 Claims. (Cl. 303—80.)



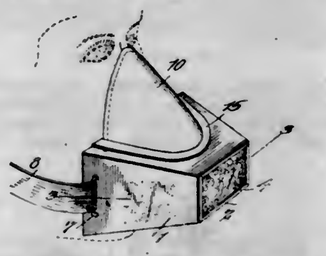
1. A bleeder valve for an air brake system, the same comprising a casing having a longitudinal opening therein and lateral openings, the longitudinal opening being adapted to be connected to the train line to receive pressure therefrom, and one of the lateral openings being adapted to be connected with the brake cylinder for relieving the pressure thereof, a plug valve movable in the longitudinal opening of the casing and adapted to be normally held seated by the pressure derived from the train line to close the lateral opening in communication with the brake cylinder, and means mounted upon the opposite end of the valve casing to effect an unseating of the valve when required, said valve having a portion cut away and a pin mounted in the valve casing and entering the cut away portion of the valve to limit its movement.

1,679,838. ADJUSTABLE SUPPORT FOR BUILT-IN BATHTUBS. JAMES E. MCHUGH and ALVIN G. FIELDS, East St. Louis, Ill. Filed Dec. 6, 1926. Serial No. 152,831. 8 Claims. (Cl. 4—173.)



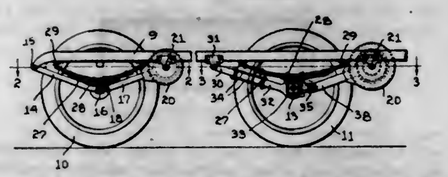
1. The combination with a built in bath-tub having a laterally projecting rim and leveling strips of a support therefor, said support having spaced parallel leveling strips supports and vertically adjustable rim supporting means.

1,679,839. SMOKE PROTECTOR. WILLIAM D. MITCHELL, Spartanburg, S. C. Filed June 2, 1926. Serial No. 113,248. 2 Claims. (Cl. 128—146.)



1. A protector of the character specified, comprising a casing, adapted to fit close against the face opposite the mouth and below the nose, means associated with the casing for holding it in place, said casing having an opening in its top side in line with the nostrils, a flexible cover upon the top side of the casing adapted to envelope the nose and secure a close fit between the casing and the nose, a retainer securing the lower edge of the cover to the casing and a spring nose frame consisting of a single wire including similar side pieces and a lower connecting member, each of the side pieces comprising an upright at the side of the nose, an inclined member adjacent the bridge of the nose and a member at the lower end of the inclined member engaging the top of the casing and curving to conform to a side of the nose.

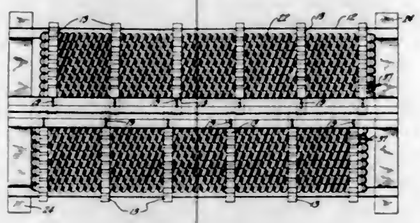
1,679,840. SUSPENSION FOR VEHICLE BODIES. BENJAMIN F. SEYMOUR, Washington, D. C. Filed Oct. 1, 1924. Serial No. 741,049. 5 Claims. (Cl. 267—16.)



1. In a vehicle construction, the combination of a vehicle frame, an axle, a wheel journalled on the axle, a pair of arms hinged at distal points on the frame, one of

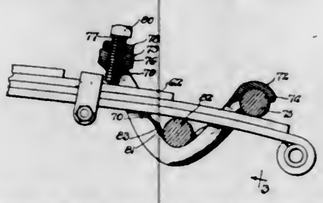
said arms being pivoted on the axle and the other rigidly secured thereon, and a spring between the axle and the frame, substantially as set forth.

1,679,841. ELECTRIC CONVECTION HEATER. HAROLD N. SHAW, Milwaukee, Wis. Filed Feb. 7, 1927. Serial No. 166,481. 5 Claims. (Cl. 219—34.)



1. An electric convection heater, comprising a triangular frame, insulating supports carried by opposite side inclined faces of the frame, and a spiral resistance element mounted on the supports on each side face of the frame and extending back and forth on said supports longitudinally of the frame, said resistance elements being modified from standard practice by a substantial increase in width and a substantial reduction in the thickness of the metal in the element and also in a substantial increase in the diameter of the spiral to provide a comparatively large surface area and permit heating at a comparatively low temperature.

1,679,842. SHOCK ABSORBER. EARNEST R. SNOOK, Davenport, Iowa, assignor to Starkweather-Snook Corporation, Moline, Ill., a Corporation of Iowa. Filed June 4, 1925. Serial No. 34,776. 34 Claims. (Cl. 267—48.)



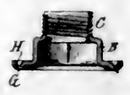
1. A stabilizer for vehicle springs, comprising adjustable bearing means at one end for engaging one side of a vehicle spring, a roller bearing at the other end for engaging the same side of said spring, and means for engaging an intermediate point of the other side of said spring.

1,679,843. CLEANING DEVICE. ABRAHAM TRAUBE, Brooklyn, N. Y. Filed June 26, 1926. Serial No. 118,630. 3 Claims. (Cl. 15—124.)



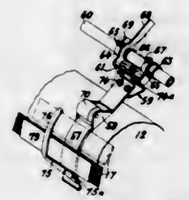
1. A fountain device for use in the dry cleaning of textiles comprising a hollow cylindrical handle adapted for use as a container for the liquid to be used, a scraper blade projecting from the container, said blade being adapted to be applied to a textile to clean the same, an outlet tube communicating with the container and having its discharge opening at the same side of the container as the scraper and located in close proximity to the scraper and so that liquid may be discharged while the scraper is applied to the textile, and means for controlling the flow of the liquid discharged through the tube.

1,679,844. RIM NUT. JULIUS VOLCKHAUSEN, Weehawken, N. J., assignor to A. Schrader's Son, Inc., Brooklyn, N. Y., a Corporation of New York. Filed July 5, 1924. Serial No. 724,382. Renewed Jan. 13, 1928. 3 Claims. (Cl. 85—32.)



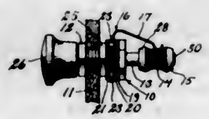
1. A sheet metal rim nut for tire valves or the like, comprising a body portion having wrench engaging faces, a lateral flange adapted to function as a washer for the rim nut when the latter is screwed over a tire valve into engagement with a wheel felly, the felly engaging face of the flange being formed with an annular rib pressed up from the metal of the flange intermediate its edges.

1,679,845. TYPEWRITING MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 16, 1924. Serial No. 732,356. 11 Claims. (Cl. 197—153.)



2. In a typewriting machine, the combination with a rotatable platen and a length of auxiliary ribbon disposed lengthwise of said platen at the printing line thereof, of two laterally adjustable paper-guides, each guide including a finger arranged parallel thereto for holding the portion of said ribbon intermediate said fingers closely against said platen and for supporting the ribbon against being moved downwardly below the typing position, said guides being arranged between said ribbon and the platen, to bear directly against the work on the platen.

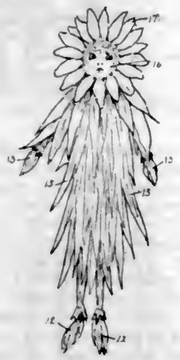
1,679,846. SWITCH CONSTRUCTION. CHESTER E. WARNER, Berwyn, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 5, 1924. Serial No. 718,027. 6 Claims. (Cl. 200—163.)



1. A circuit controller comprising a metal bushing having a tubular threaded portion for extending through a panel and having also an annular flange, a nut screwed on the threaded tubular portion for holding it on the panel, a metal plunger slidable back and forth in said tubular portion, a contact carried by said metal plunger and electrically connected therewith, a

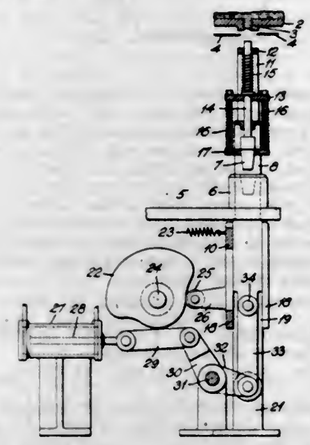
metal binding terminal member comprising a terminal portion and an annular securing portion integral with said terminal portion surrounding said tubular portion and held against said annular flange, and a combined binding terminal and contact member comprising an annular metal securing portion mounted on and surrounding said tubular portion but insulated therefrom and comprising also a contact portion integral with said securing portion for cooperating with the contact carried by the plunger.

1,679,847. GARDEN DOLL. ZAIDA B. WEBB, Norwich, Conn. Filed Apr. 4, 1924. Serial No. 704,119. 2 Claims. (Cl. 46—40.)



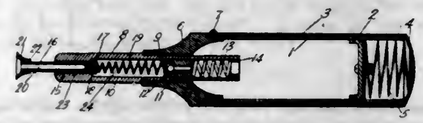
2. A doll simulating a plant, and comprising a head portion, petal simulating elements surrounding said head portion, a body portion having an opening therein adapted to contain powder or the like, leaf simulating elements secured to said body portion, arm and leg portions, leaf simulating elements secured to said arm and leg portions, and bud simulating elements secured to said arm and leg portions, and defining hand and feet portions respectively.

1,679,848. GLASS PRESS. WILLIAM T. BARKER, Jr., Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Oct. 23, 1924. Serial No. 745,372. 20 Claims. (Cl. 49—5.)



1. In combination with a glass feeder having a feeding outlet, a glass pressing machine having a mold mounted for movement beneath said outlet and into vertical alignment therewith to receive a mold charge delivered therefrom, and a pressing plunger mounted for movement into alignment with said outlet and said mold for pressing said mold charge while said mold is in its charge-receiving position.

1,679,849. METHOD AND APPARATUS FOR EJECTING LUBRICANTS. WILLIAM D. BELL, Columbus, Ohio, assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 6, 1923. Serial No. 656,088. 17 Claims. (Cl. 221—47.4.)

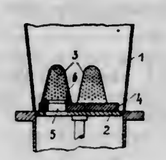


1. Lubricating means comprising a portable lubricant container, a cylinder receiving lubricant from said container, a plunger reciprocable in said cylinder, a spring for moving said plunger to discharge lubricant from said cylinder, a second plunger reciprocable in said cylinder for moving said first named plunger against the tension of said spring, and a valve for controlling the discharge of lubricant from said cylinder, and a coupling member for receiving said discharge and having means to form a sealed connection with a lubricant receiving member.

1,679,850. PROCESS FOR THE MANUFACTURE OF THREADS, FILMS, AND THE LIKE FROM CELLULOSE DERIVATIVES. ERNST BERL, Darmstadt, Germany. Filed Mar. 11, 1925. Serial No. 14,788, and in Germany Mar. 17, 1924. 9 Claims. (Cl. 18—54.)

1. Process for the production of structures from cellulose derivatives consisting in converting the cellulose derivatives into solutions or gelations by means of organic solvents and treating the thus obtained products in precipitating baths which contain solvents in addition to salt solutions.

1,679,851. BLOWING MACHINE FOR THE MANUFACTURE OF HATS. EMIL BRECHT and RUDOLF FUGMANN, Guben, Germany. Filed Mar. 4, 1927, Serial No. 172,809, and in Germany Mar. 12, 1926. 4 Claims. (Cl. 19—148.)

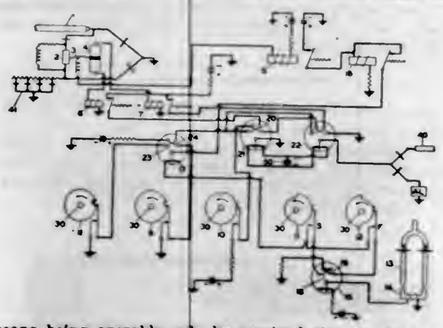


1. In a blowing machine for the manufacture of hat hoods the combination, with the blowing compartment, of a plurality of perforated forming cones adapted to receive the deposit of fibrous material introduced into the compartment, said cones being supported by and rotating with the bottom of the compartment.

1,679,852. SYNCHRONIZING SYSTEM. ALDER F. CONNERY, Jamaica, N. Y., assignor to Commercial Cable Company, New York, N. Y., a Corporation of New York. Filed Oct. 22, 1926. Serial No. 143,471. 6 Claims. (Cl. 178—53.)

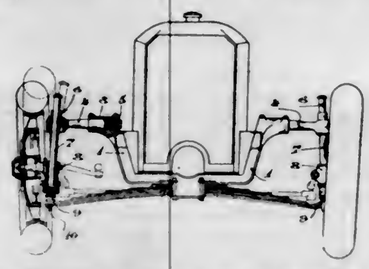
1. A three-element code synchronizing system comprising, signal receiving means, means co-operative with said receiving means for generating potentially available sig-

nals in approximate synchronism with the received signals, and means for correcting the synchronism, said



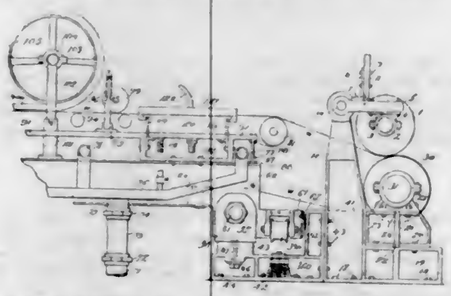
means being operable only by received signals which are preceded by a signal of predetermined invariable character.

1,679,853. SPRINGING OF MOTOR VEHICLES. CYRILLE EDOUARD COTTIN, Lyon, France, assignor to Automobiles Cottin & Desgouttes, Societe Anonyme, Lyon, France. Filed Oct. 8, 1926, Serial No. 140,330, and in France Nov. 27, 1925. 3 Claims. (Cl. 280—124.)



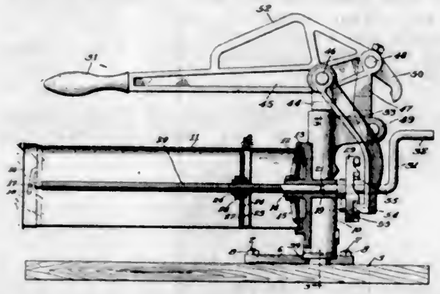
1. A transverse spring suspension applicable to the driving or steering wheels of motor vehicles, comprising a spring, guide rods connected to said spring, axle members for the wheels mounted on said guide rods and arms arranged to be carried by the chassis, and to which said guide rods are connected for sliding movement and also for universal angular movement, said arms being adjustable to vary the extent of the space between the upper portions of the guide rods.

1,679,854. PAPER-MAKING MACHINE. JAMES K. DARBY, Dayton, Ohio, assignor to Frank C. Trowbridge, Hamilton, Ohio. Filed Jan. 30, 1926. Serial No. 84,845. 42 Claims. (Cl. 92—44.)



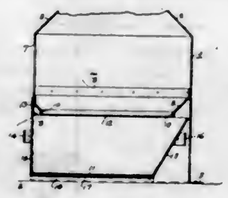
1. In a paper making machine, a transverse movable forming table and gravity means for causing the transverse movement.

1,679,855. LUBRICANT COMPRESSOR. ERNEST W. DAVIS, Oak Park, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Nov. 10, 1924. Serial No. 748,956. 15 Claims. (Cl. 221—47.1.)



1. A lubricant compressor comprising a low pressure cylinder, a closure for one end of said low pressure cylinder, a high pressure cylinder receiving material from said low pressure cylinder formed integrally with said closure and disposed eccentrically of said low pressure cylinder, a threaded piston rod rotatably mounted in said closure and extending substantially the entire length of said low pressure cylinder, a piston threaded onto said piston rod, a ratchet wheel secured to the outer end of said piston rod, a plunger reciprocably mounted in said high pressure cylinder, a lever for reciprocating said plunger, and a pawl having one end pivotally mounted upon said lever and its other end positioned to engage the teeth on said ratchet wheel.

1,679,856. DUSTLESS ASH CONTAINER. WALTER DITSCH and FRANK O. DAVIS, Mishawaka, Ind. Filed Jan. 28, 1926. Serial No. 84,324. 1 Claim. (Cl. 126—242.)



In dustless ash containers, a rectangular casing having a hood, a vent pipe attached to the hood, said casing having an ash receiving opening located above an ash pan opening formed in one end of the casing, a hopper attached to and extending all around on the inside of the casing positioned between the two openings combined with a removable ash pan provided with a sloping rear end, a flanged front end adapted to cover the lower opening of the casing, and an extra reinforcing plate attached to the bottom of the pan said plate having depending flanged edges.

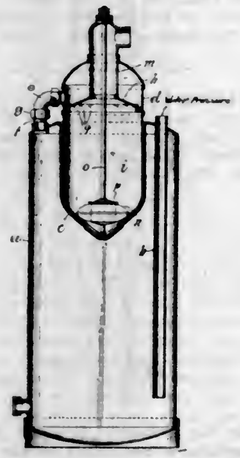
1,679,857. RECOVERY OF PRECIOUS MINERALS. TALBOTT HEWITT FRANCE, Brooklyn, N. Y. Filed July 9, 1926. Serial No. 121,496. 12 Claims. (Cl. 209—11.)

1. The improvement in the recovery of diamonds from sedimentary rocks which comprises artificially heating the rock to a substantial degree above normal atmospheric temperatures sufficient to induce material differences in expansion between the diamonds and their matrices and then abruptly cooling the so heated materials.

1,679,858. PROCESS FOR PURIFYING GASES. WALTER H. FULWEILER, Wallingford, Pa., assignor to The U. G. I. Contracting Company, Philadelphia, Pa., a Corporation of Delaware. Filed Dec. 4, 1923. Serial No. 678,431. 3 Claims. (Cl. 23—225.)

1. In the process for purifying gas by the action of a solution of a salt sufficiently alkaline to absorb hydrogen sulphide gas as sulf-hydrate thereby becoming foul, the improvement which consists in preferentially oxidizing the sulf-hydrate principally to the original salt with liberation of sulphur as such by passing the foul solution in film form over coke in the presence of air.

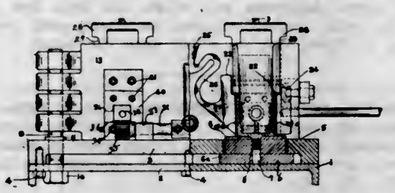
1,679,859. FOAM FIRE-EXTINGUISHING APPARATUS. WILHELM GRAAFF, Berlin, Germany, assignor to Pyrene-Minimax Corporation, a Corporation of Delaware. Filed Jan. 29, 1924, Serial No. 689,363, and in Germany Jan. 29, 1923. 1 Claim. (Cl. 169—15.)



In a foam fire extinguisher the combination of a receptacle containing a salt solution, a pipe for the admission of water under pressure extending from the top to near the bottom of said receptacle, a recess in the top of said receptacle, a second receptacle adapted to be inserted in said recess, an elbow pipe connecting the top of said first receptacle with the top of said second receptacle, a perforated partition in said second receptacle adapted to divide said second receptacle into two compartments the lower of which contains a reacting chemical and a foam generator, a central vertical extension from said partition, a central rod extending from the bottom of said second receptacle to the top of said extension, a float within said lower compartment and adapted to ascend along said rod and to seal the entrance to said extension, and an outlet pipe upon said extension.

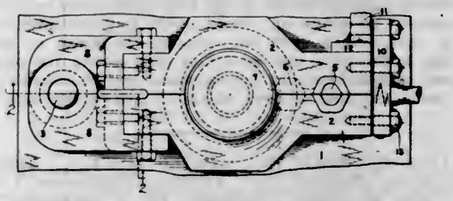
1,679,860. MOLD FOR CASTING METALS. MARIUS GUYOT, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 13, 1925, Serial No. 22,590. Renewed Feb. 29, 1928. 9 Claims. (Cl. 22—153.)

1. A mold having a plurality of casting cavities comprising a mold base, two hinged mold halves fixed at one end thereof and adapted to be moved on the mold base, and pilots movable in and extending above the top



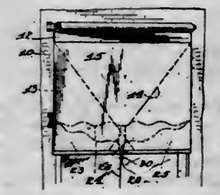
of the mold base, the top surface of each of the said pilots cooperating with adjacent surfaces of the said mold halves to form a casting cavity.

1,679,861. MOLD FOR CASTING METALS. MARIUS GUYOT, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 13, 1925, Serial No. 22,591. Renewed Feb. 29, 1928. 14 Claims. (Cl. 22—153.)



1. A multipart permanent mold, for casting high melting point metals, composed of differentially expansible mold parts and comprising a base member, hinged mold halves on the base member, the said base and halves being suitably surfaced and recessed to form casting cavities for the molten metal being cast, and means for maintaining the original alignment and location of mold parts and cavity walls.

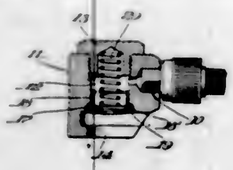
1,679,862. AWNING. GEORGE S. HENRITZY, Hazleton, Pa. Filed June 27, 1922. Serial No. 571,193. 1 Claim. (Cl. 156—44.)



An awning comprising a roller, a flexible body member having its upper edge attached to the roller and having a front and side portions, a hinged three part frame for shaping the flexible body member adjacent its bottom, the middle section of the hinged frame being secured across the same and of a length to hold smooth that part of the front portion between itself and the roller, the side portions of the frame being secured to the side portions of the flexible body member, the two being foldable in a flat position against the front member with the two side frame members lying along the front frame member, the flexible body member being provided with a substantially rectangular portion below the front frame member and with portions below the side frame members, attached to the rectangular

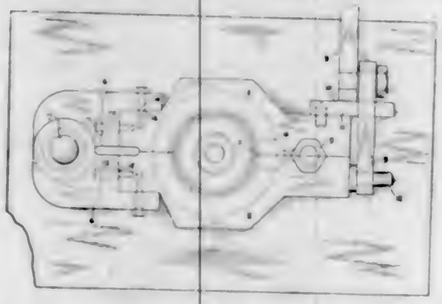
portions at their respective front ends, to the side portions at their respective tops and tapering from front to rear, the portions below the frame being foldable above the frame and within the front and sides of the body member whereby the whole body member when so folded may be rolled upon the roller.

1,679,863. COUPLING MEMBER. OTTO J. HERR, Chicago, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 25, 1924. Serial No. 708,928. 3 Claims. (Cl. 285—143.)



1. A coupling member for a lubricant compressor comprising a body member having a bore therethrough, a toroidal groove formed in the wall of said bore adjacent one end thereof, a cup leather in the last mentioned end of said bore, a split ring pressing the flange of said cup leather into said groove, a plug closing the other end of said bore, and a compression spring confined between said plug and the bottom of said cup leather.

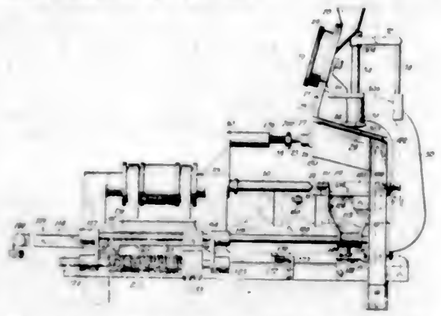
1,679,864. MOLD FOR CASTING METALS. GEORGE KOHL, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 13, 1925. Serial No. 22,571. Renewed Feb. 29, 1928. 7 Claims. (Cl. 22—153.)



1. In a multipart permanent mold for casting metals the combination of a mold part, a movable mold part cooperating with the first said part and exposed to the heat of the molten metal being cast, and a hinge for connecting the said mold parts and secured to the movable mold part for adjustment laterally with respect thereto.

1,679,865. TUBE FINISHING AND CAPPING MACHINE. JOSEPH H. KONIGSBERG, Brooklyn, N. Y., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a Corporation of New York. Filed May 26, 1923. Serial No. 641,634. 47 Claims. (Cl. 29—27.)

1. In a tube finishing and capping machine, a cap hopper, means for delivering a single cap at a time from said hopper to the capping position, a reservoir for thin collapsible tubes, means for delivering a single tube at a time from said reservoir into finishing position, comprising means for supporting said tube in finishing position, an oscillatory and reciprocatory tube carriage, means for delivering a single tube at a time to said carriage, and means for operating said carriage for causing said carriage to mount a tube on said supporting means, means for finishing said tube, and means for causing said cap delivering means to cap said tube.



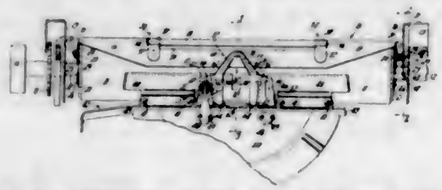
20. In a tube finishing machine, a mandrel, a tip on said mandrel hexagonal in cross section, and means for mounting a tube on said mandrel, whereby said hexagonal tip engages the inside of the tip of said tube.

1,679,866. SLIDER FOR FASTENERS, ROBERT C. LEGAT, New Britain, Conn., assignor to G. E. Prentice Manufacturing Company, New Britain, Conn., a Corporation of Connecticut. Filed June 2, 1926. Serial No. 113,154. 25 Claims. (Cl. 24—205.)



1. A slider for separable fasteners of the class described comprising spaced wings, means connecting said wings, the connecting means having opposed lugs, and a stiffener device disposed between said lugs, said lugs preventing lateral displacement of the stiffener device, the latter having a part engaging the outer face of at least one of the wings.

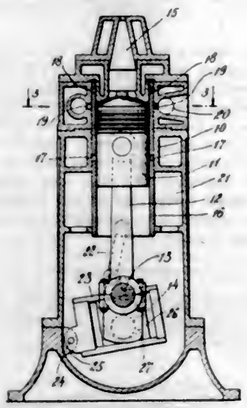
1,679,867. TYPEWRITING MACHINE. JOSEPH LINDBURG, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed June 30, 1924. Serial No. 723,176. Renewed June 16, 1925. 15 Claims. (Cl. 197—136.)



1. In a typewriting machine, the combination with a platen, of a card-holder including a plate extending along the platen and conforming to the curvature thereof, said plate including an opening forming with said platen a curved pocket for the reception of a card, the upper and lower edges of the plate formed by said opening providing respectively upper and lower gages for the card, and

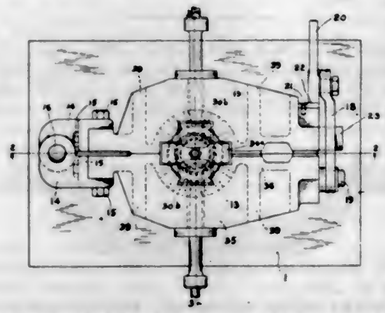
resilient clips adjacent the opposite ends of said pocket for engaging the card over the side margins thereof to shield the side margins and to guide the card into the pocket, to bring the lower edge of the card against said lower gage, said clips also effective to press the card completely into said plate-opening, to bring the upper edge of the card against the upper gage and to hold the card by said side margins comformably against the platen.

1,679,868. INTERNAL-COMBUSTION ENGINE. WILLIAM H. MILLSPAUGH, Sandusky, Ohio. Filed Oct. 11, 1923. Serial No. 667,862. 5 Claims. (Cl. 123—75.)



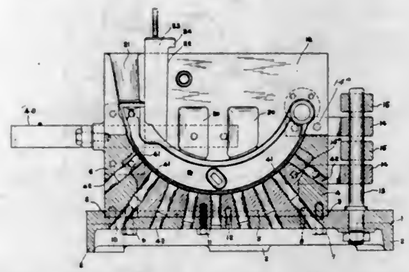
1. A two-cycle internal combustion engine comprising a cylinder having exhaust ports adjacent the inner end thereof, a piston operating in said cylinder, a crank shaft, a sleeve valve slidably mounted between the piston and cylinder and having exhaust ports, air intake ports intermediate the ends thereof, and operative connections including a quick return yoke between said sleeve valve and the crank shaft so arranged that said sleeve valve will be given a relatively slow movement near the end of each outward stroke to open the exhaust ports and the air intake ports and will close the exhaust ports near the end of each outward stroke, and a relatively fast return movement during the inward stroke of the piston whereby air admitted under pressure will be entrapped in the cylinder.

1,679,869. METAL MOLD. ALLEN B. NORTON and MARIUS GUYOT, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 13, 1925. Serial No. 22,547. Renewed Feb. 29, 1928. 11 Claims. (Cl. 22—153.)



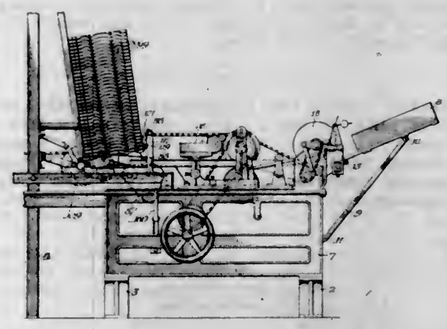
1. A permanent mold for casting high melting point metals comprising a mold base, and hinged cooperating mold halves movable thereon having adjacent faces recessed to form cavities for molten metal, the said faces being out of contact with each other from the hinged ends of the mold halves to points close to the said cavities, the outer side surface of the mold halves being substantially free from flanges.

1,679,870. METHOD OF AND MOLD FOR MAKING CASTINGS. ALLEN B. NORTON and MARIUS GUYOT, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 13, 1925. Serial No. 22,766. 35 Claims. (Cl. 22—136.)



21. A multipart mold for casting high melting point metals comprising a plurality of large solid mold parts which are substantially isothermal, isoexpansive and non-warping forming certain walls of a casting cavity and a large, irregular, non-warping mold part forming a wall of the casting cavity and provided with means for rendering the said part substantially isoexpansive and isothermal as compared with the said plurality of mold parts.

1,679,871. MACHINE FOR MANUFACTURING BOOK COVERS AND THE LIKE. ALBERT OLGAY, Glen Ellyn, assignor to Gaw-O'Hara Envelope Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 11, 1925. Serial No. 14,658. 10 Claims. (Cl. 91—55.)

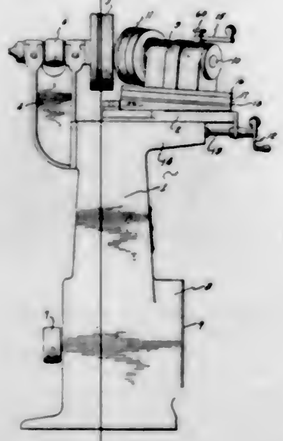


2. In combination, a gumming roll, a roll cooperative therewith for passing sheet material therebetween, means for automatically supplying a continuous stream of sheets to said rolls, and means between said rolls and said feeding means operative upon a break in said continuous stream to permit gravity to move one of said rolls from the other.

9. In a machine of the character described including an endless conveyor having a plurality of leaves adapted to receive and hold a sheet of material containing a substance to be dried between pairs thereof, means for supporting said conveyor for travel, means for opening pairs of said leaves at one place to receive a sheet of material

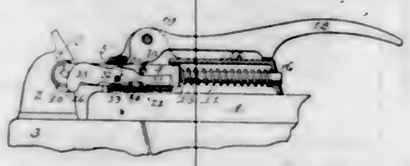
and at a place remote therefrom for removal of the sheet, and means for inserting a sheet at the first said place, means operative to grasp an edge of each sheet for removing the same from said conveyor at the second said place, and means for operating said removing means in predetermined timed relation to the travel of said conveyor.

1,679,872. TWIST-DRILL GRINDER. EDD C. OLIVER, Adrian, Mich. Filed Oct. 9, 1925. Serial No. 61,434. 11 Claims. (Cl. 51—131.)



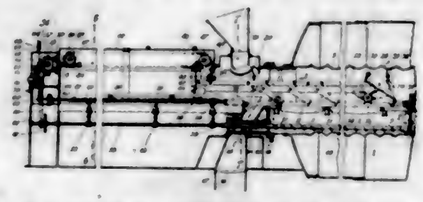
1. In a machine for grinding twist drills, a frame member, a fixedly positioned rotatable grinding wheel, a holder for the drill for maintaining the same in a fixed angular relation with the face of the grinding wheel and adapted to be moved to move the drill across the grinding wheel, manual means for turning the drill on its axis during grinding movement, and automatic means actuated through the said means for turning the drill for causing the drill to feed longitudinally of its axis toward the grinding wheel as it is turned.

1,679,873. LATCH FOR REFRIGERATOR DOORS AND THE LIKE. ELMER C. OSBECK, Grand Rapids, Mich., assignor to Grand Rapids Brass Company, Grand Rapids, Mich., a Corporation of Michigan. Filed May 16, 1924. Serial No. 713,644. 2 Claims. (Cl. 292—335.)



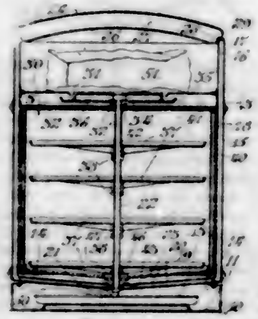
1. In combination with a keeper therefor, a door latch comprising: a slide bearing; a bolt movable longitudinally therein and spring-pressed into latching engagement with the keeper; a detent mounted in its middle extraneously of the bolt swingably to extreme swung positions within the bearing and spring-pressed into engagement at one of its ends with the bolt to hold the same in non-latching position, and adapted to be swung by its opposite end striking the keeper to a position disengaging the bolt.

1,679,874. FEEDING DEVICE FOR FURNACES. ANTON PASTERNAK, Velke Kuncice, Czechoslovakia. Filed Oct. 23, 1924, Serial No. 745,416, and in Germany Nov. 30, 1923. 11 Claims. (Cl. 110—111.)



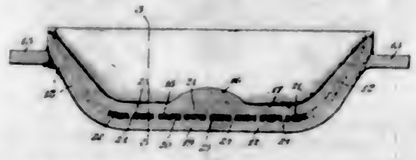
3. In a fuel feeding mechanism for furnaces and the like, the combination with a grate and a fire bridge at the inner end thereof; of a bucket movable to dumping position for depositing fuel upon the grate in proximity to said fire bridge, a frame carrying said bucket and movable into and out of said furnace, a plurality of spreaders also carried by said frame and movable to spreading position to evenly distribute the fuel over said grate when said frame is being moved out of the furnace, means for actuating said bucket and spreaders, and means for reciprocating said frame.

1,679,875. REFRIGERATOR. HEINRICH A. W. PETERSEN, Gary, Ind. Filed Dec. 19, 1923. Serial No. 681,548. 13 Claims. (Cl. 62—46.)



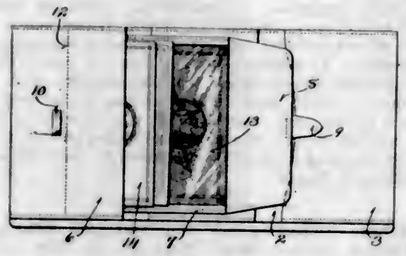
1. A refrigerator comprising a base, a refrigerator casing mounted on said base, a disappearing arcuately shaped revolving door operatively mounted on said casing, and means adapted to revolve with said door whereby communication between certain portions of said refrigerator and certain other portions thereof is cut off when said door is opened.

1,679,876. PIG IRON MOLD AND THE LIKE. FELIX QUINN, Buffalo, N. Y., assignor of one-half to Emil Neuhart, Buffalo, N. Y. Filed Mar. 11, 1925. Serial No. 14,664. 28 Claims. (Cl. 22—143.)



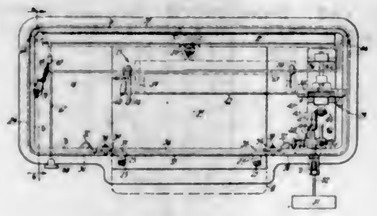
1. A mold having an inner wall region, an outer wall region, and an intermediate wall region including means to retard the expansive force of said inner wall region toward said outer wall region.

1,679,877. BILL FOLDER. BALTUS ROLFS, West Bend, Wis., assignor to Amity Leather Products Co., West Bend, Wis. Filed Feb. 9, 1927. Serial No. 166,897. 4 Claims. (Cl. 150—39.)



1. A pocketbook having a pocket adapted to receive identification and similar cards, a member adapted to be withdrawn from said pocket and normally housed therein and having a flap positioned below the bottom edge of said cards and secured to a wall of said pocket, and a reenforcing sheet secured to said member and forming a pocket therewith, whereby said member may be freely pushed back into said pocket by a pressure directly applied to said member.

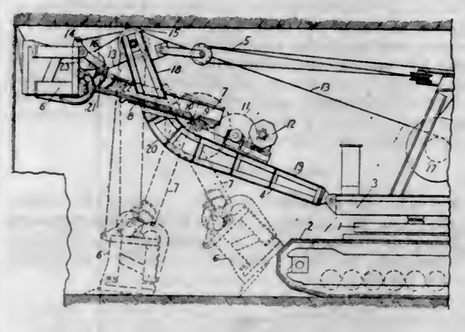
1,679,878. TYPEWRITING MACHINE. EDWARD G. ROWLEY, Belleville, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed May 12, 1926. Serial No. 108,495. 24 Claims. (Cl. 197—186.)



1. A carriage-return mechanism for a typewriting machine having a traveling carriage and a carriage-return lever therefor, said mechanism including, in combination, a rotatably-mounted drum, a cord wound therearound, the cord having one end fast to the drum and the other end fast to the carriage-return lever, a bevel gear operatively connected to said drum in a manner to rotate therewith, a geared sector meshing with said gear, a pivot-shaft for said sector, and a handle for swinging said sector to thus rotate the drum and return the carriage.

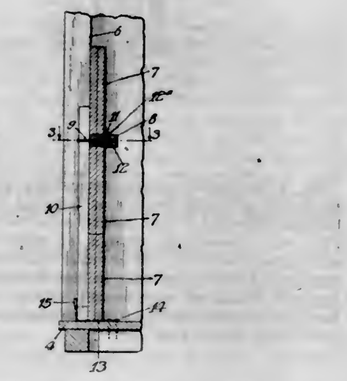
1,679,879. EXCAVATING MECHANISM. LOUIS R. RUSSELL, Marion, Ohio, assignor to The Marion Steam Shovel Company, Marion, Ohio, a Corporation of Ohio. Filed May 25, 1925. Serial No. 32,637. 6 Claims. (Cl. 214—135.)

1. In a boom for a mechanism of the character described, comprising a rear portion adapted to be connected with a supporting structure, a forward portion extending upwardly with relation to said rear portion, and means



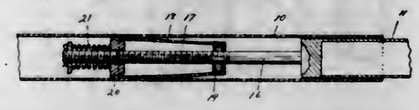
for mounting a dipper handle on said boom with its fulcrum point above the rear portion thereof and near the adjacent ends of the two portions thereof.

1,679,880. GRAIN DOOR FOR BOX CARS. JOSEPH A. SCHMITZ, Chicago, Ill. Filed Mar. 26, 1927. Serial No. 178,521. 4 Claims. (Cl. 20—30.)



1. A grain door for box cars comprising a series of boards extending horizontally across the door opening, a brace bar removably secured at its lower end to the floor of the car and extending upwardly and overlapping said boards, a horizontal cross bar intermediate the edges of adjacent boards, and means detachably connecting the brace bar to the cross bar.

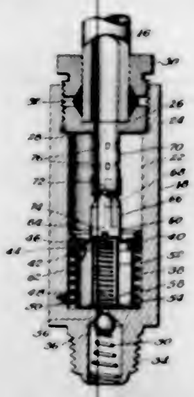
1,679,881. HANGER ROD. HERBERT A. SIMPSON, East Lansing, Mich. Filed Oct. 5, 1925. Serial No. 60,582. 12 Claims. (Cl. 156—19.)



8. A hanger rod comprising a pair of telescoped sections, a threaded member fixed to one of said sections, an element frictionally engageable with the second section

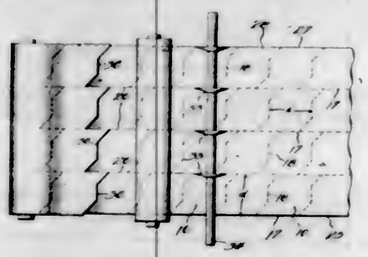
and normally longitudinally movable with the first section, an element threaded for engagement with the said threaded member and connected to move the said friction element, and means including an expanding elemet effective upon a relative rotative movement of said sections at various positions of their longitudinal adjustment for causing the expanding element to move the friction element into locking engagement with the second section, continued relative rotation of the sections thereafter causing travel of the threaded element with respect to the threaded member and first section to positively and relatively longitudinally move the sections.

1,679,882. MEASURING VALVE. DONALD H. SWEET, Evanston, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed July 30, 1926. Serial No. 125,980. 19 Claims. (Cl. 184—7.)



19. A lubricating system comprising source means for producing alternate periods of low and high pressure, a bearing connected to said source, a barrier forming a complete seal against the passage of lubricant, means permitting said barrier to yield under a pressure impulse and move the lubricant column in the direction of the bearing, and means for opening said barrier and re-establishing it at another point in the lubricant column more remote from the bearing.

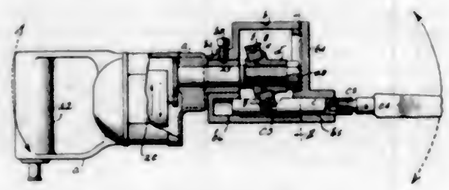
1,679,883. MANUFACTURE OF SHINGLES. ALEXANDER S. SPEER, Buffalo, N. Y., assignor, by mesne assignments, to Certain-teed Products Corporation. Filed Feb. 13, 1922. Serial No. 536,282. Renewed Aug. 10, 1927. 20 Claims. (Cl. 164—68.)



1. The method of making individual shingles of the type described from sheet roofing material which comprises slitting the sheet longitudinally into a number of strips of a width corresponding to one dimension of the individual shingles to be cut, and then severing each strip transversely at intervals along a line extending from edge to edge of said strip, part of which is oblique to the length of the sheet and forms the lower edge of the shingle.

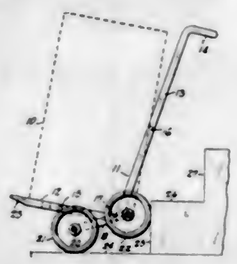
15. Apparatus for making bias-cut shingles of the type described, comprising in combination, means for feeding a sheet of roofing material, a cutting device across the path of said material and adapted to sever said material transversely at intervals along a line, the general direction of which is less oblique than the obliquity of the cut of the individual shingles, said cutting device provided with a cutting edge adapted to cut said material to form the end and one side of a plurality of shingles, and means for cutting said material longitudinally to form the other side of said shingles.

1,679,884. ATTACHMENT FOR DRILLS. HORACE T. THOMAS, Lansing, Mich. Filed Oct. 22, 1926. Serial No. 143,470. 5 Claims. (Cl. 29—73.)



1. The combination of a portable apparatus of the kind described having a spindle and means for rotating the same, a part adapted to carry a tool and reciprocate in the direction of the axis of said spindle, a wobble-plate on said spindle, a ring surrounding said plate, a friction bearing between said ring and plate, said ring engaging said part to reciprocate the same.

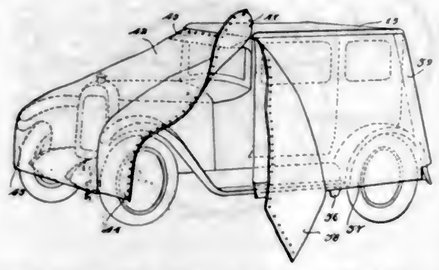
1,679,885. HAND TRUCK. BENJAMIN F. WALKER, Bridgeport, Conn. Filed Nov. 4, 1926. Serial No. 146,155. 5 Claims. (Cl. 280—29.)



1. In a hand truck, a body for carrying the load, handles for said body, a carriage pivoted to the body, a support on the carriage for the body forwardly of said pivot to limit forward turning movements of the body about said pivot, and supporting wheels carried by the carriage forwardly and rearwardly of said pivot.

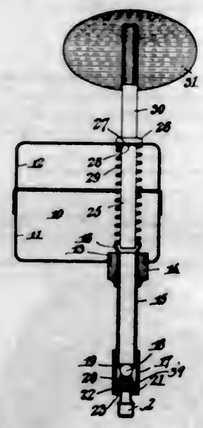
1,679,886. AUTO TOP AND COVER. JOHN K. WRIGHT, Detroit, Mich. Filed May 24, 1926. Serial No. 111,198. 1 Claim. (Cl. 296—136.)

An auto top and cover of the class described comprising: a vehicle top having a pair of longitudinally extending pockets formed at opposite sides and a pair of transversely extending pockets formed at opposite ends, said transversely extending pockets communicating at their ends with said longitudinally extending pockets; a plurality of ledges on said top overhanging said pockets, the interior of said pockets being accessible beneath said ledges; a roller mounted in each of said pockets; gear



wheels connecting said rollers for effecting a simultaneous rotation of each of said rollers; a crank for rotating said rollers from beneath said top; side curtains mounted on said longitudinally extending rollers, each of said side curtains having at its opposite edges tapered flaps, said flaps being foldable on the main body of said curtain preliminarily to rolling the same on said roller.

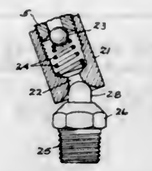
1,679,887. LUBRICATING APPARATUS. OSCAR ZERK, now, by judicial change of name, Oscar Ulysses Zerk, Cleveland, Ohio, assignor, by mesne assignments, to The Bassick Manufacturing Company. Filed Nov. 21, 1922. Serial No. 602,466. 16 Claims. (Cl. 221—47.4.)



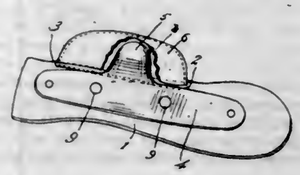
1. A lubricating pistol comprising a lubricant container, a valve controlled outlet nozzle telescopically secured to and in open communication with said container, said nozzle including means for forming a sealed connection with a lubricant receiving nipple, and means to close the inner end of said nozzle and eject the lubricant trapped therein when said nozzle and container are telescoped.

1,679,888. LUBRICATING APPARATUS. OSCAR U. ZERK, Cleveland, Ohio, assignor to Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 11, 1924. Serial No. 705,815. 5 Claims. (Cl. 221—47.4.)

1. Lubricating apparatus comprising a nipple element and a nozzle element, said nipple element terminating in a spherical end, the other element fitting outside said end and having a flaring mouth defined by rotating a curved line about the axis of said nozzle, the angle between the line and the axis, which measures the flare of the mouth increasing to a maximum at the end of the nozzle.

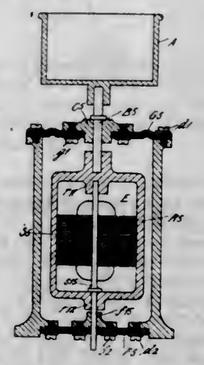


1,679,889. SHOE. EMMERICK ANDERSON, Dayton, Ky. Filed Mar. 7, 1924. Serial No. 697,656. 1 Claim. (Cl. 36—71.)



A turned shoe comprising in combination a sole with a shoe upper lasted to the sole, a shank piece secured in the shoe, a pocket formed of a stiffening member secured at its lower edge to the under edge of said shank piece and a complementary flexible portion secured at all of its edges to the stiffening member excepting at its lower edge thereby forming an inverted pocket, and an arch supporting plate having a tongue extending into said pocket, said plate secured to the under surface of said shank piece, and said shank piece and plate secured to said sole with rivets extending through said shank piece, plate and sole.

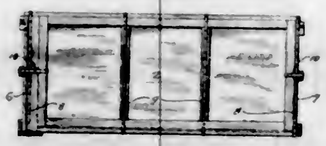
1,679,890. MODE OF SUPPORTING AND JOURNALING MOTORS AND HIGH-SPEED SHAFTS DRIVEN THEREBY. ROBERT ALEXANDER BALDWIN, Ashton-on-Mersey, England. Filed Sept. 14, 1927. Serial No. 219,547, and in Great Britain July 9, 1926. 3 Claims. (Cl. 172—36.)



1. In combination, an inner fixed stator member, an outer rotor member, a frame surrounding and enclosing said stator and rotor members, a bearing for supporting

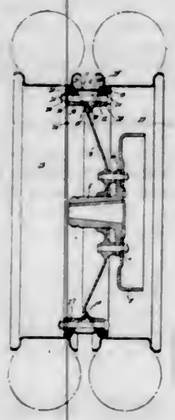
said rotor and stator, and a flexible connection between said bearing and said frame, whereby the axis of the stator and rotor members may assume angular position in said frame during rotation under load.

1,679,891. BATHTUB SHIPPING CRATE AND COVER. PAUL M. BEES, Chicago, Ill., assignor to Cornell Wood Products Company, a Corporation of Wisconsin. Filed May 24, 1926, Serial No. 111,230. Renewed Jan. 12, 1928. 2 Claims. (Cl. 217—36.)



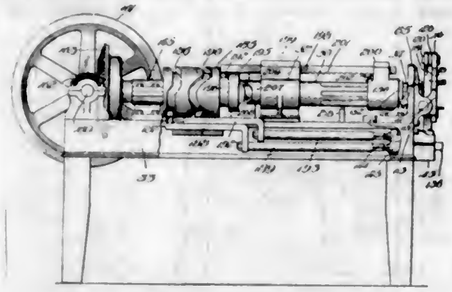
1. A bath-tub shipping and protecting device comprising a cover, an apron secured thereto to form a bath-tub protecting unit, a rear wall, a bottom wall and end walls secured to one another to form a second unit adapted to interfit with the first unit, and metal straps connecting the two units to completely enclose the bath-tub for shipment, said metal straps adapted to be cut at predetermined points to permit the second unit to be removed from the bath-tub leaving the first unit as a protective covering for the top and front faces of the bath-tub.

1,679,892. WHEEL AND RIM MOUNTING. JOSEPH V. BERTAUD, Detroit, Mich., assignor to Swedish Crucible Steel Company, a Corporation of Michigan. Filed May 13, 1927. Serial No. 190,975. 2 Claims. (Cl. 301—13.)



1. A wheel comprising a hub and felly portion, a web extending from the felly portion and embodying a circular and a tapered seat, a rim having a rib bearing at one side on the tapered seat, a spacer ring having a tapered circumferential seat bearing on the other side of said rib and a circular seat bearing on the circular seat of the web, a demountable ring bearing at one edge on the felly, said ring having a circular and a tapered seat, a second circular and tapered seat on the spacer ring, the former bearing on the circular seat of the demountable ring, a second tire rim having a rib engaged between the two latter tapered seats and means for drawing the four tapered seats toward each other to wedge the ribs between the two pairs of them and thereby support and secure the rims.

1,679,893. MACHINE FOR MAKING SHEET-METAL PIPE ELBOWS. FRIEDERICH BRUNE, Milwaukee, Wis. Filed Mar. 28, 1925. Serial No. 19,011. 12 Claims. (Cl. 153—69.5.)



1. In a machine of the class described, a mandrel, a pair of clamping jaws cooperating therewith, said jaws being pivoted at a distance from each other and crossing each other intermediate their respective pivots and the mandrel, and means operating on the free ends of the jaws for opening and closing them.

1,679,894. X-RAY TUBE. GUSTAV BUCKY, New York, N. Y. Filed Sept. 22, 1925, Serial No. 57,820. Renewed Jan. 14, 1928. 3 Claims. (Cl. 250—35.)



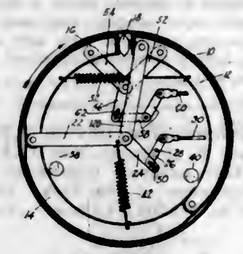
2. An X-ray tube having a body with an opening, an apertured support, the marginal portion of which is anchored in said opening, and a pane of material readily pervious to X-rays, carried by said support and sealing said opening.

1,679,895. COMB FOR LONG BOBS. SIGNE CARLSON, Chicago, Ill. Filed Apr. 12, 1928. Serial No. 269,329. 2 Claims. (Cl. 132—22.)



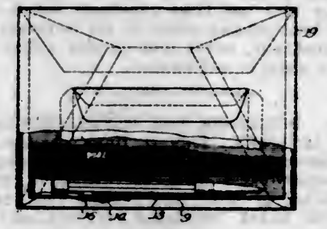
1. A hair holder comprising two curved bars overlying each other and secured together at the middle by a spring hinge, the upper bar having fingers extending upwardly and then downwardly on the concave side, and the lower bar having fingers extending downwardly and then upwardly on the concave side and projecting past the free ends of the fingers on the upper bar when the holder is closed.

1,679,896. BRAKE. ADIEL Y. DODGE, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 17, 1925. Serial No. 75,904. 31 Claims. (Cl. 188—78.)



1. A brake comprising, in combination with a drum, a friction device having a plurality of sections all engaging the same zone of the drum and effective in both directions of rotation of the drum, and brake-applying means for forcing the friction device against the drum, the friction device and the brake-applying means being so constructed and so arranged that at least one section of the friction device engages the drum when the drum is turning in one direction but does not engage it when it is turning in the opposite direction.

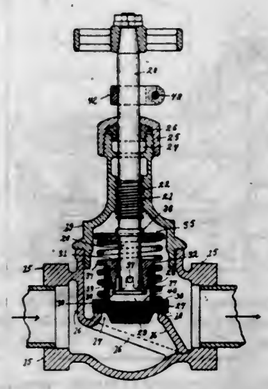
1,679,897. MAILING CONTAINER FOR PENCILS AND OTHER ARTICLES. CHARLES F. ELMORE, Chicago, Ill., assignor to Gaw-O'Hara Envelope Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 16, 1926. Serial No. 102,414. 2 Claims. (Cl. 206—46.)



1. A pencil container comprising a pair of side walls connected together at one edge only and spaced apart at said edge by an intervening transversely disposed back wall adapted to prevent the approach of said connected edges of the side walls, said wall being made of relatively stiff material and arranged to form an open ended container substantially triangular in cross section, said back wall being adapted for the attachment thereto of a pencil or the like, and means whereby a pencil may be secured to said back wall.

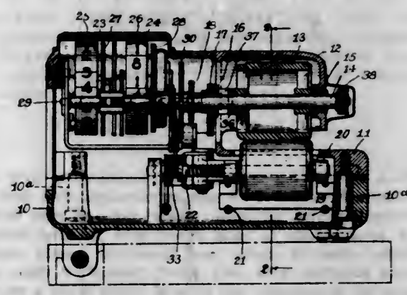
1,679,898. CHECK VALVE. ISRAEL B. GILBERT, Cincinnati, Ohio. Filed Apr. 12, 1924. Serial No. 706,208. 2 Claims. (Cl. 251—38.)

2. In a valve, a casing having a seat, a valve stem axially movable with respect to the seat upon rotation within the casing, a valve plug carried by the stem, and means of connection between the plug and stem to permit of a limited relative axial movement therebetween when the plug is in engagement with the seat, said means of connection comprising an interiorly threaded axially recessed portion in the plug at the opposite side from its face, a sleeve threadedly engaged in said recess and having longitudinal diametrically disposed slots, the end of the stem extending through said sleeve and provided with radially



projecting shoulders engaging in said slots, a spring seat surrounding the stem and a coiled expansion spring having its opposite ends respectively engaging the spring seat and valve plug for normally projecting the plug from the end of the stem.

1,679,899. FABRIC-MEASURING MACHINE. HARRY T. GOSS, Rutherford, N. J., assignor to Cozzens Trading Company, Inc., New York, N. Y., a Corporation of New York. Filed July 13, 1920. Serial No. 395,932. 6 Claims. (Cl. 33—129.)

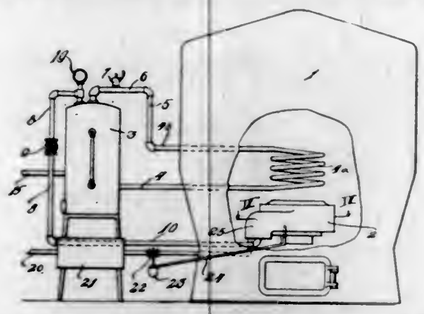


6. In a fabric measuring machine the combination with a measuring roller, of a long-measuring register, a short-measuring register, and mechanism, including shiftable gear-means, for driving either but not both simultaneously, from the measuring roller.

1,679,900. OIL-BURNING SYSTEM. FRANK HIGGINS and ARTHUR E. NORDSTROM, Princeton, Ill. Original application filed June 22, 1925, Serial No. 38,942. Divided and this application filed Feb. 7, 1927. Serial No. 166,415. 1 Claim. (Cl. 158—73.)

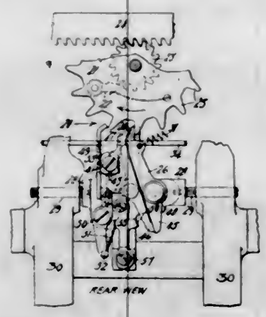
In an oil burning system, a furnace having a fire pot therein, a fuel nozzle in the fire pot, a coil positioned over the fire pot, a tank having an upper steam storage space and a lower water storage space connected by pipes to the top and bottom of the coil respectively, water flow controlling means adapted to maintain the level of the water in the coil below the top thereof to ensure a steam generating and superheating space in the upper portion of

the coil, the lower end of the coil being connected to the tank in the upper part of its water space to maintain a supply of relatively hot water to the coil, steam con-



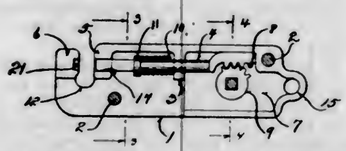
dult means extending from the tank to the nozzle, and means for feeding fuel to said nozzle for commingling with the steam.

1,679,901. TYPEWRITING MACHINE. WILLIAM F. HELMOND, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 21, 1925. Serial No. 76,617. 13 Claims. (Cl. 197—88.)



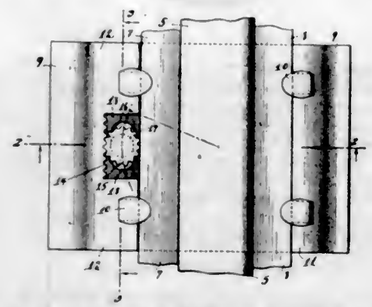
3. In a typewriting machine, the combination with a power-driven carriage, of an escapement-mechanism therefor, including two adjacent levers side by side and pivoted eccentrically to each other, said pivoting being sufficiently close to enable said levers to loosely slide upon and interfere with each other, permitting them to have limited movements, one of said levers being a stepping dog of the escapement-mechanism, and the other being an interfering idle lever, said stepping dog being driven by the carriage, and the movement of said stepping dog being limited by the action of the interfering lever, thereby arresting said carriage with a minimum of noise.

1,679,902. TIRE-CHAIN LOCK. WILLIAM F. HELWIG, Milton, Wis. Filed Jan. 29, 1927. Serial No. 164,607. 2 Claims. (Cl. 24—241.)



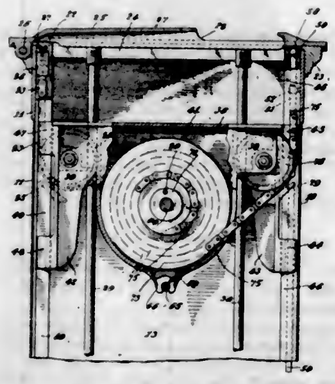
1. A tire chain lock comprising a relatively flat elongated member formed of two small plate-like portions and having together a hollow interior, said body portion having a notch at one end adapted to detachably receive a terminal link of the tire chain and having an aperture at the other end adapted to receive the other terminal link, a plunger slidably carried within said body portion and adapted to slide across said notch, a spring normally holding the plunger across said notch, a rock shaft projecting from said body portion, and rack and pinion mechanism connecting said rock shaft with said plunger, said rock shaft having a traverse aperture therethrough for the reception of a pin.

1,679,903. ANTICREEPING DEVICE FOR RAILWAY RAILS. EMIL F. HOLINGER, New York, N. Y., assignor to Chase Appliance Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 12, 1928. Serial No. 246,204. 4 Claims. (Cl. 238—304.)



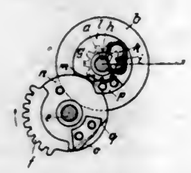
1. In an anticreeping device, a tie-plate adapted to support a rail, means on such plate for engaging the outer base-flange of such rail to hold the latter against lateral movement, a surface on said plate adjacent to and separated from the inner base-flange of said rail, a rolling member located in the space between said inner base-flange and said surface, adapted to engage frictionally with said inner base-flange and to increase such frictional gripping action by the movement of said rail longitudinally, and a stud on said rolling member received in a slot in said tie-plate.

1,679,904. DISPENSER FOR PAPER NAPKINS AND LIKE ARTICLES. JOHN O. HUNT, Brooklyn, N. Y., and GEORGE H. NORTH, Cranston, R. I., assignors to Independent Paper Mills, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 24, 1925. Serial No. 39,215. 27 Claims. (Cl. 312—61.)



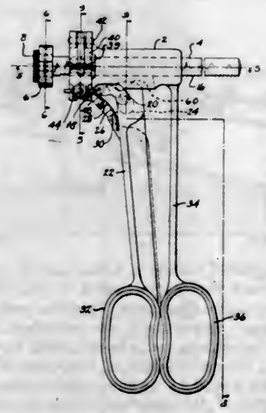
1. In a dispenser for paper napkins and like articles, a casing, a carriage comprising a platform, a motor housing integral therewith, and a spring winding motor within the housing, guides for directing the movement of the carriage, and a flexible winding member between the motor and the casing for advancing the carriage and a superimposed pile of paper napkins or like articles placed on the platform for maintaining the outermost article in position to be readily grasped and removed through the discharge opening in the casing.

1,679,905. RESETTING MECHANISM. ERNST KASSNER, Berlin, Germany. Filed June 18, 1926, Serial No. 116,770, and in Germany Apr. 17, 1926. 7 Claims. (Cl. 235—144.)



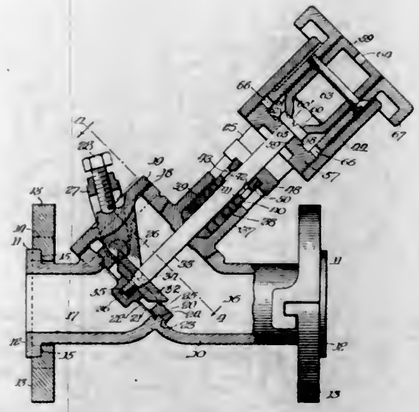
1. In a machine of the kind described, having number wheels, and means for turning the number wheels into any desired positions, a restoring member for turning the wheels into their zero positions, and means for positively moving the restoring member in one direction through a predetermined angle beyond its normal position during its restoring operation and means for thereupon rigidly engaging it and positively moving it in the opposite direction back into its normal position.

1,679,906. METAL-DRAWING APPARATUS. DELAMAR C. KINNEAR, Waterbury, Conn., assignor to The American Brass Company, Waterbury, Conn., a Corporation of Connecticut. Filed Mar. 23, 1927. Serial No. 177,529. 8 Claims. (Cl. 205—17.)



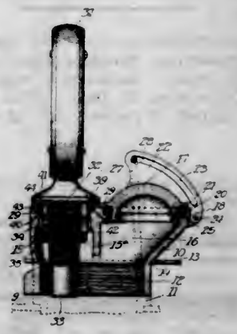
1. In a device of the character described, the combination of a support, a slide movably mounted on said support and provided with a series of teeth, a clamp and a die, one mounted rigidly on said support and the other on said slide, a pawl engaging said slide, and means carried by said support for reciprocating said pawl so as to successively engage said teeth and move said die and clamp away from each other.

1,679,907. VALVE. HARRY E. LA BOUR, Homewood, Ill. Filed Mar. 18, 1926. Serial No. 95,519. 16 Claims. (Cl. 251—156.)



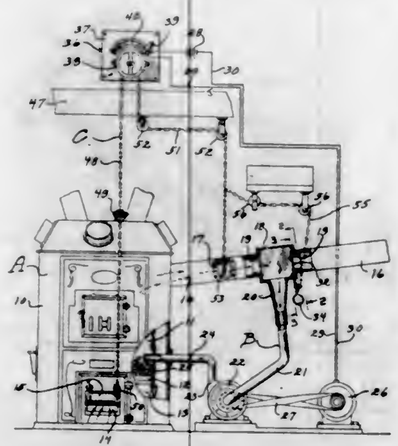
1. In a valve, a casing, valve mechanism including a removable valve seat disposed therein, an opening in said casing adjacent said valve mechanism, a cover for said opening including arm means on the under side of said cover for contacting with said valve seat to hold the same in place, and means for simultaneously clamping said cover and said valve seat in place.

1,679,908. MOTOMETER MOUNTING AND LOCK. WARREN MCARTHUR, Jr., Phoenix, Ariz., assignor to McArthur Brothers Mercantile Co., Phoenix, Ariz., a Corporation of Arizona. Filed Apr. 6, 1925. Serial No. 20,909. 12 Claims. (Cl. 220—24.)



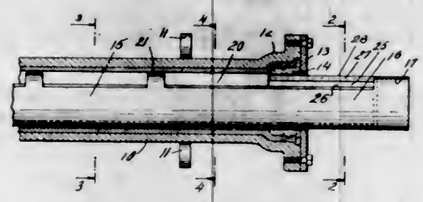
1. The combination of a radiator filling spout having an opening, a motometer having a stem adapted to project through said opening, means on said stem permitting the motometer to be applied while the spout is attached to the radiator and preventing removal of the motometer from the spout except when the spout is detached from the radiator.

1,679,909. SMOKE CONSUMER. GEORGE MICHAEL and HURSHELL MICHAEL, Benton Harbor, Mich. Filed Apr. 25, 1927. Serial No. 186,427. 7 Claims. (Cl. 110—49.)



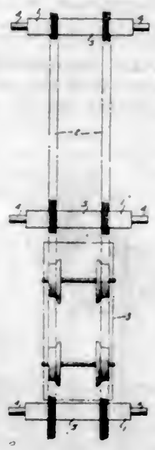
1. In a device of the class described, the combination with a furnace including a fire box provided with a smoke pipe having a check draft, of return means connected in the smoke pipe past the check draft and opening into the fire box and including a blower and drive means therefor, a pivotally mounted damper plate for selectively causing the products of combustion to circulate through said return means or closing communication therethrough and opening communication through the smoke pipe, actuating means for simultaneous opening of the check draft upon movement of the damper plate to a position for closing communication through the return means, and means connected between the actuating means and said blower drive means for setting the drive means in motion upon movement of the actuating means to a position for closing of the check draft and movement of the damper plate for opening communication through the return means.

1,679,910. CENTRIFUGAL CASTING MACHINE. WILLIAM H. MILLSPAUGH, Sandusky, Ohio, assignor to The Paper and Textile Machinery Company, Sandusky, Ohio, a Corporation of Ohio. Filed Mar. 4, 1926. Serial No. 92,106. 9 Claims. (Cl. 22—65.)



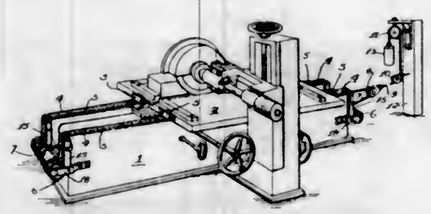
1. A dumper trough for centrifugal casting machines comprising an elongated hollow body having a longitudinally extending pouring slot therein and a filling opening adjacent one end of the body, one edge of said filling opening being displaced circumferentially from the corresponding edge of the pouring slot.

1,679,911. TOY RAILROAD. JOHN A. MOFFITT, New Haven, Conn. Filed Mar. 26, 1927. Serial No. 178,549. 89 Claims. (Cl. 238—10.)



36. A rail for use in a toy railroad, made from a wire bent about the longitudinal center line of the rail.

1,679,912. AUTOMATIC SLIDE COVER. JOHN B. MONDLOCH, Cold Spring, Minn., assignor of one-half to Cold Spring Granite Company, Cold Spring, Minn., a Corporation of Minnesota. Filed Aug. 3, 1925. Serial No. 47,852. 3 Claims. (Cl. 90—34.)

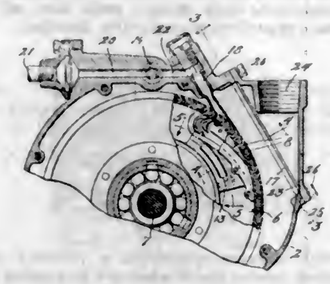


1. In a machine having a reciprocating part with an upwardly-exposed runway on which it travels, a pair of flexible aprons extending from opposite ends of the reciprocating part respectively for covering the exposed portions of the runway; a take-up roller for each apron around which the end portion of the apron is wrapped in direction to be wound up as the reciprocating part moves toward the end of the runway which the apron covers, and means interconnecting the take-up rollers for winding up one apron as the other unwinds.

1,679,913. TURBINE CONSTRUCTION. LEWIS H. MORRILL, Harvey, Ill., assignor to The Buda Company, Harvey, Ill., a Corporation of Illinois. Filed Mar. 3, 1927. Serial No. 172,292. 11 Claims. (Cl. 253—53.)

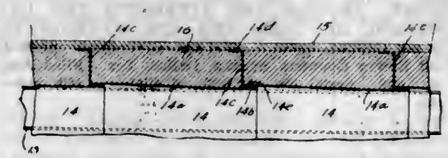
1. In a turbine construction, a casing, a turbine wheel mounted therein, said casing having an opening and

closure therefor adjacent the periphery of said wheel, and return buckets and mounting therefor within said



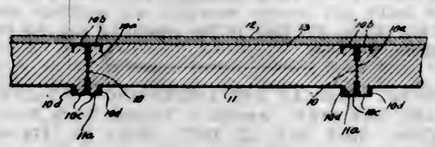
casing, said mounting including means accessible through said opening for permitting the removal of said buckets.

1,679,914. FLOOR AND CEILING CONSTRUCTION. RICHARD MURRAY, New York, N. Y. Filed May 20, 1926. Serial No. 110,396. 7 Claims. (Cl. 72—70.)



1. A ceiling construction for buildings fashioned from a plurality of interlocking members adapted to extend from one wall to another, said members being formed from strips of sheet metal, one side of said strips being folded upon itself to form a projecting flange of two thicknesses of the metal of said strip, and a part extending substantially at right angles to one face of said strip, and a flange at the free edge of said part, said part forming a joist member upon which the floor surface is adapted to be supported.

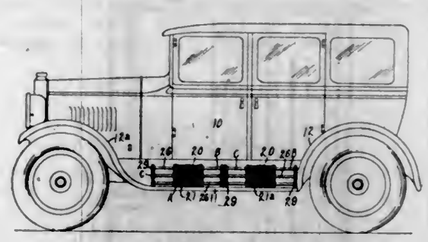
1,679,915. CEILING CONSTRUCTION. RICHARD MURRAY, New York, N. Y. Filed May 21, 1926. Serial No. 110,672. 5 Claims. (Cl. 72—70.)



1. In a ceiling construction, the combination with spaced and parallel floor joists of T-beam cross sectional form, of strips of sheet metal transversing the spaces between said joists and extending longitudinally of the lower end portions thereof, and resting upon the lower flanges of said joists, and with the lower faces of said strips flush and parallel with the lower faces of said joists.

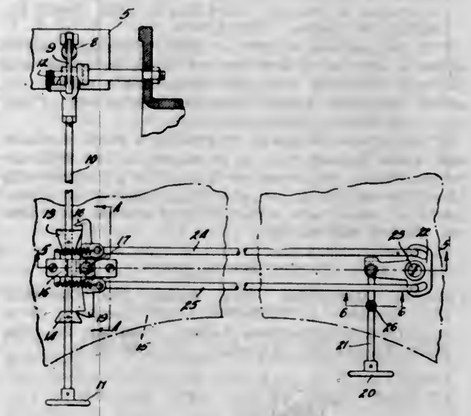
1,679,916. COMBINATION RUNNING-BOARD FOOT-PAD AND LUGGAGE CARRIER. NEAL NIELSEN, Spencer, Iowa. Filed Nov. 29, 1926. Serial No. 151,435. 6 Claims. (Cl. 280—164.)

6. A combination running board foot pad and luggage carrier comprising a running board foot pad plate, means for hinging the plate to a foot board to move from horizontal position lying on the foot board to vertical position along the outer edge of the foot board, and an extensible luggage carrier member slidably mounted on said plate and having its larger portion received be-



tween the plate and the running board when the plate is lying on the foot board and adapted to be extended substantially in alignment with the plate when the plate is raised.

1,679,917. TWO-HAND CONTROL. ROBERT C. PAULY, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 12, 1926. Serial No. 87,846. 7 Claims. (Cl. 192—131.)

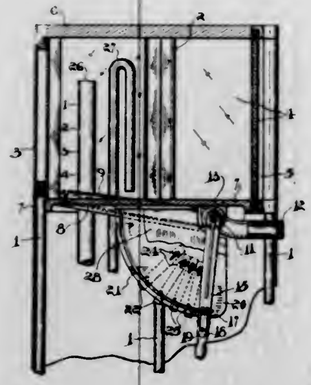


2. In a machine of the character described, a hand operable control member movable in one direction to produce one machine operation and movable in the opposite direction to produce the reverse machine operation, a pair of latch means for said control member, and a single hand operable control member for both of said latch means, said latch control member being movable in one direction to control one latch means and being movable in the opposite direction to control the other latch means.

1,679,918. LIQUID-DISPENSING APPARATUS. FREDERICK A. PFLUG, Kitchener, Ontario, Canada. Filed Dec. 10, 1925. Serial No. 74,570. 5 Claims. (Cl. 221—100.)

1. Liquid dispensing apparatus comprising a chamber shaped as a rectangular right prism; and a draw-off tube journalled at the bottom of the chamber adjacent to

one corner and having its mouth adjacent the diagonally opposite corner when in its lowermost position, the tube being adapted to swing in the vertical plane in which



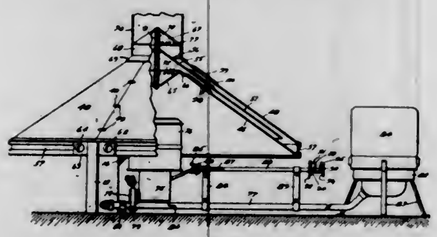
the aforesaid corners lie, whereby may be used a relatively long tube compared to the cross-sectional area of the chamber.

1,679,919. INSECTICIDE AND FUNGICIDE. FRANCIS M. ROGERS and CLAUDE P. MCNEIL, Whiting, Ind., assignors to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed May 3, 1926. Serial No. 106,549. 6 Claims. (Cl. 167—6.)

1. A composition capable of readily forming a stable emulsion with water and effective as an insecticide and fungicide for plants and seeds, comprising a mineral oil, an oil dispersible copper compound and a salt of sulfonic acid derived from mineral oil.

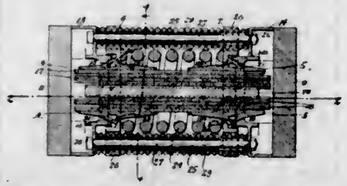
5. A composition capable of forming a stable emulsion with water and effective as an insecticide and fungicide for plants and seeds, comprising a salt of a preferentially oil soluble sulfonic acid derived from mineral oil, a compound of copper with a sulfonic acid derived from mineral oil, and mineral oil.

1,679,920. BROODER. MARC RESEK, East Cleveland, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 21, 1924. Serial No. 714,761. 9 Claims. (Cl. 119—32.)



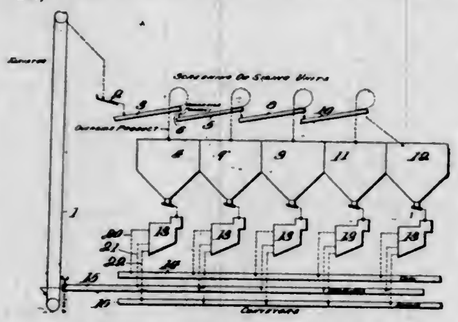
1. In a brooder, the combination of a combustion device, and a hood disposed over said device and comprising inner and outer walls that are spaced apart, said inner and outer walls having, respectively, inlet and outlet openings, a partition intermediate said walls and separating the respective openings thereof, a deflector applied to the inner wall and extending across its opening, the deflector having a series of holes, and a cap surmounting the outer wall over its opening, said cap also having a series of holes.

1,679,921. SHOCK ABSORBER. CLIFTON W. SHERMAN and JOSEPH M. HALL, Hamilton, Ontario, Canada, assignors to Hall Draft Gear Corporation, Buffalo, N. Y., a Corporation of New York. Filed Feb. 24, 1927. Serial No. 170,611. 9 Claims. (Cl. 213—36.)



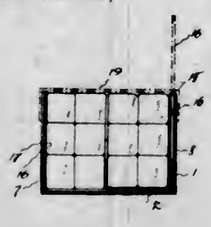
1. A shock absorber comprising a plurality of sets of intercalated friction plates which are corrugated lengthwise and have their corrugations fitting into one another, means for moving said plates lengthwise relative to each other, and means for producing a lateral pressure of said plates against each other, including shoes provided on their inner sides with longitudinal corrugations engaging with the corrugations on the exterior of the outermost friction plates.

1,679,922. PROCESS AND APPARATUS FOR DRY MILLING OF COAL AND ITS BY-PRODUCTS. HENRY MOORE SUTTON, WALTER LIVINGSTON STEELE, and EDWIN GOODWIN STEELE, Dallas, Tex. Filed Aug. 15, 1923. Serial No. 657,567. 6 Claims. (Cl. 209—44.)



1. A continuous process for dry separating the elements of a mass, which consists in sizing and separating the elements into clean, middlings, and refuse products and finally and directly returning said middlings first to said sizing and then to the separating step for the purpose described.

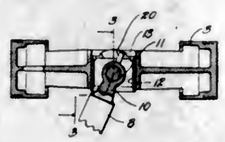
1,679,923. DISPLAY AND DISPENSING CONTAINER AND THE LIKE. ARNOLD J. TANNER, North Haven, Conn. Filed Mar. 12, 1927. Serial No. 174,743. 5 Claims. (Cl. 206—44.)



1. A folding container as described having a body open at the top and front constituting a receptacle; an extension from the back wall of said body adapted

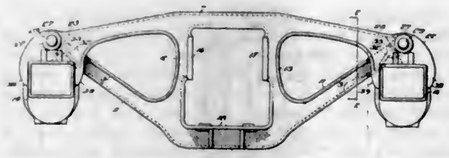
to be folded into said receptacle to form a lining for said back wall; a separate removable panel forming a closure means for the open front of the container and means for supporting said panel at the back of the container to permit utilization thereof as a display card.

1,679,924. INTERNAL-COMBUSTION ENGINE. JOHN OTTO ALMEN, Seattle, Wash. Filed May 21, 1923. Serial No. 640,388. 3 Claims. (Cl. 123—58.)



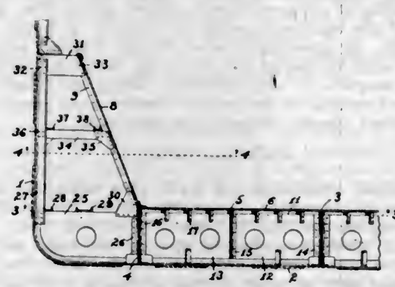
2. In an engine of the class described, a shaft having an inclined journal, a piston mounted to reciprocate parallel with the shaft and having a yoke provided with a transverse bore, a rocker rotatable on the journal and having an arm extended therefrom, a bearing fitted slidably and rotatably in the piston and pivotally attached to the rocker arm and having guide surfaces therein and means on the arm adapted to engage the said guide surfaces whereby the movement of the rocker is confined to and guided in its natural path.

1,679,925. TRUCK SIDE FRAME. DONALD S. BARROWS, Rochester, N. Y., assignor to The Symington Company, New York, N. Y., a Corporation of Maryland. Filed Mar. 16, 1925. Serial No. 15,857. 21 Claims. (Cl. 105—204.)



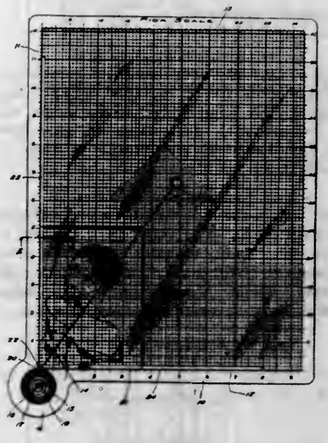
1. A cast truck side frame comprising flanged compression and tension members with a non-rigid connection between the ends thereof.

1,679,926. CHANNEL CONSTRUCTION FOR THE SIDES AND TOPS OF TANKS OF VESSELS. WILFORD G. BARTENFELD, Lorain, Ohio. Filed Aug. 2, 1927. Serial No. 210,082. 10 Claims. (Cl. 114—79.)



1. In a channel construction for the sides and tops of the tanks of vessels, the combination with channels forming the sides of the tank, of channels forming the top of the tank, floor plates, and the channels forming the top of the tank having their flanges resting upon the floor plates.

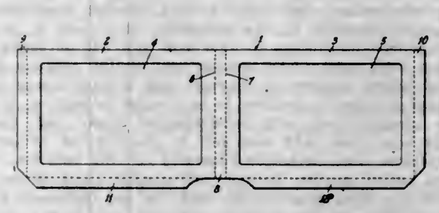
1,679,927. MEASURING DEVICE. KENNETH D. BELL, South Bend, Ind., and ERNEST MEINZINGER, Dearborn, Mich. Filed Dec. 23, 1926. Serial No. 156,595. 7 Claims. (Cl. 33—76.)



1. A device of the class described comprising a transparent base having indicia thereon dividing said base into rectangular sections, a housing secured to said base, and a flexible straight edge mounted in said housing and operable to be withdrawn from said housing diagonally of said base to intersect said indicia.

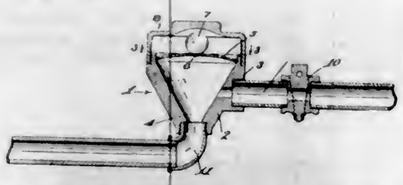
4. In a device of the class described, a transparent base, there being two scales on said base dividing the same into rectangular sections, a flexible straight edge pivoted on said base adjacent one corner thereof and adapted to extend diagonally across said scales to intersect said sections, and there being a slot formed in said base at the edge of one of said scales, one of the edges of said slots being in line with the pivot of said straight edge.

1,679,928. SLIDE HOLDER. WILFRED T. BIRDSALL, Montclair, N. J., assignor to Trans-Lux Daylight Picture Screen Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 16, 1926. Serial No. 102,596. 5 Claims. (Cl. 88—26.)



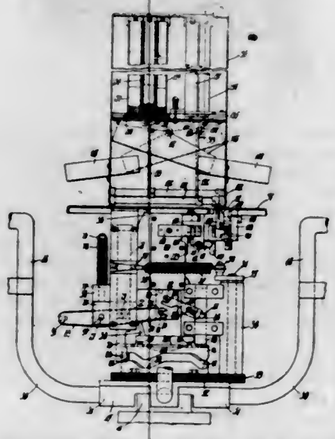
1. A slide holder comprising two plates formed of one piece of material folded over to bring said plates substantially parallel to each other to receive a slide therebetween, said plates each having overlapping flanges along certain of their edges and disposed substantially at right angles to said plates, and means for securing said flanges together to form sides of a recess adapted to receive a slide therein.

1,679,929. AUTOMATIC VIBRATING POWER SHUT-OFF. ARTHUR H. BRANDON, Los Angeles, Calif. Filed Sept. 7, 1926. Serial No. 134,075. 8 Claims. (Cl. 137—139.)



1. A pipe shut-off comprising in combination pipes having a valve, a freely movable weight, means supporting same, the supporting means being adapted to drop the weight on a disturbance in any direction, or shock in any direction, and means to close the valve by the weight.

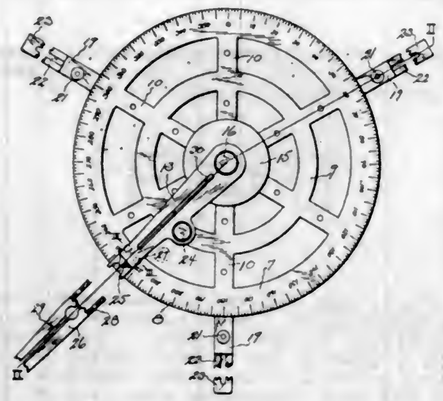
1,679,930. COIN-CONTROLLED AND CHANGE-MAKING TURNSTILE APPARATUS. DANIEL L. CHANDLER, Boston, Mass., assignor, by mesne assignments, to William H. Whitcomb, Newton, Mass. Filed Jan. 11, 1924. Serial No. 685,581. 42 Claims. (Cl. 194—69.)



1. A coin controlled and change-making turnstile apparatus provided with a coin slot and having, in combination, a rotary member, locking means embodying a reciprocatory slide adapted to be engaged by and to prevent said rotary member from being rotated beyond a predetermined angle and manually operable mechanism rendered operable by the depositing of a coin of predetermined dimensions in said coin slot out of engagement with said rotary member and by the rotation of said rotary member to operate said locking means to allow said rotary member to be rotated through an angle greater than said predetermined angle and feed said coin from said coin slot to the interior of said apparatus and mechanism operated by the rotation of said rotary member through said greater angle to eject from the apparatus change equal to the difference between the coin deposited in the coin slot and a coin of predetermined denomination.

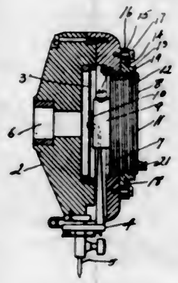
1,679,931. DEGREE COMPASS. ARLEIGH G. COVELL, Corunna, Mich. Filed Mar. 15, 1926. Serial No. 94,862. 3 Claims. (Cl. 33—75.)

1. A degree compass comprising a scale disk having degree markings on the face thereof around the outer periphery, a pointer pivotally supported at the center of said disk, a tapped rivet, said pointer being supported for rotation by said tapped rivet, an adjustable centering pin in said tapped rivet, the head of said rivet adjacent the



work engaging end of said pin being dome-shaped to cooperate therewith in centering said scale disk in the operative position.

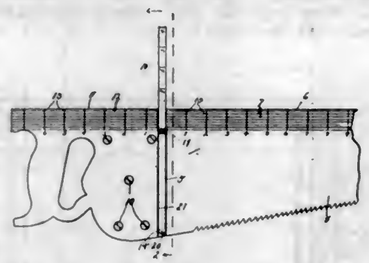
1,679,932. ADJUSTABLE COMBINED SOUND BOX AND RADIOPHONE. CHARLES J. DEL MARMOL, Philadelphia, Pa. Filed Aug. 1, 1924. Serial No. 729,470. 3 Claims. (Cl. 179—100.1.)



1. The combination with a reproducer including a casing having openings in opposite faces, one of which forms a communication between the interior of the reproducer casing and a horn, a diaphragm and a stylus mounting, of a magnet element located in the other opening of the reproducer casing for coaction with the diaphragm, an adjusting member having threaded engagement with the magnet element, means to rotatably mount said members on the reproducer casing, and means to prevent rotation of the magnet element while permitting movement thereof relative to the diaphragm.

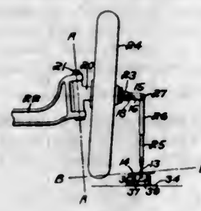
1,679,933. COMBINATION SAW AND SQUARE. WILLIAM V. DORSANEO, Devon, Pa. Filed Dec. 9, 1927. Serial No. 238,792. 2 Claims. (Cl. 7—13.)

1. A combination saw and square, comprising, in combination, a saw blade having a straight back edge and provided with an up-set portion to form a pocket at the back edge, said saw also having measures delineated thereon, a handle fixed to the blade and having an inner edge at right angles to the back edge of the blade, said handle having a recess in its inner edge on one side of the blade, said recess alining with the pocket, and an extensible arm hinged to the handle for insertion in the recess when in a closed position and for registration with



the pocket when in an open position, the walls of said pocket positively positioning the extensible arm at right angles to the back of the blade.

1,679,934. GEOMETRIC INSTRUMENT. JOHN F. DUBY, Dorchester, Mass. Filed Oct. 6, 1925. Serial No. 60,803. 17 Claims. (Cl. 33—203.)



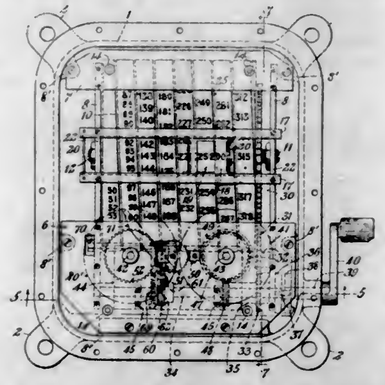
1. Instrumentalities for measuring the angularity of the axis of the steering gear king-pin of a land vehicle with reference to a floor or other body having a plane surface, comprising in combination, a pointer, means for securing said pointer to the steering knuckle whereby said pointer may be moved with said steering knuckle in an arc about the axis of the king-pin, and means for utilizing the plane of said arc to ascertain the angular position of the axis of said king-pin with reference to said surface.

1,679,935. TREATMENT OF CELLULOSE DERIVATIVES. GEORGE HOLLAND ELLIS, HENRY CHARLES OLPIN, and WILLIAM BERTRAM MILLER, Spondon, near Derby, England, assignors to Celanese Corporation of America, a Corporation of Delaware. Filed Aug. 15, 1927, Serial No. 213,214, and in Great Britain Sept. 30, 1926. 14 Claims. (Cl. 8—5.)

1. Process for dyeing materials comprising cellulose acetate, comprising applying to the materials a nitro derivative of a compound containing at least two aryl radicles linked together by at least one linkage which is at the most only partly constituted by nitrogen.

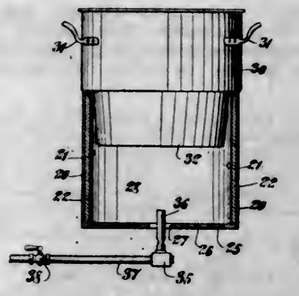
1,679,936. RANGE CONVERTER. HANNIBAL C. FORD, Jamaica, N. Y., assignor to Ford Instrument Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 16, 1918. Serial No. 250,227. 6 Claims. (Cl. 235—61.5.)

3. In an instrument for indicating corresponding values of two quantities one of which varies non-uniformly with respect to the other, a rotatable member having a series of equally spaced graduations thereon representing values of one of the quantities, a cylindrical rotatable member provided with a helically disposed series of graduations representing values of the other quantity, said graduations being unequally spaced in accordance with the non-uniform variation of the first quantity with respect to said other quantity, means associated with one of the members for indicating values of the quantities shown



thereon corresponding to values of the quantities shown by the other member and means whereby the members and indicating means may be operated in unison.

1,679,937. HEATER. FRANKLIN GRADY, New York, N. Y. Filed June 22, 1925. Serial No. 38,772. 1 Claim. (Cl. 126—39.)

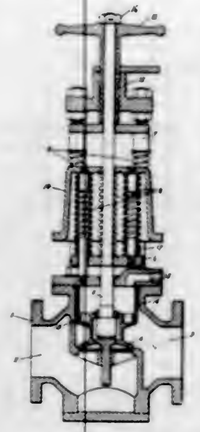


In a heater of the character described the combination of a casing, said casing comprising an outer shell and an inner shell, insulating material between the shells, a bottom wall for the casing containing an opening for the inflow of air, a burner located to direct its heat through said opening into said casing, said bottom wall also having a plurality of other openings for the discharge of air after having performed its function, a wall dividing said casing into two chambers, and a top for said casing, said insulation extending throughout the side walls to insulate both the lower and upper chambers, a valved vent at the upper part of the upper chamber, and a door in one side wall of the upper chamber.

1,679,938. FLUID-PRESSURE RELIEF VALVE. JAMES LEWIS KIMBALL, Beverly, Mass., assignor to Ruggles-Klingemann Manufacturing Company, Salem, Mass. Filed Jan. 10, 1927. Serial No. 160,172. 6 Claims. (Cl. 137—139.)

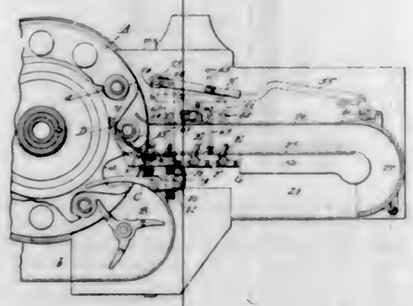
1. In a fluid pressure relief valve comprising a valve structure having an inlet and an outlet, a valve disc for normally preventing fluid pressure flow through said valve, a plurality of pressure counteracting springs divided into an inner and an outer group, overlapping each other, a cylinder surrounding the inner group, an upper inturned

flange on said cylinder engaging the upper end of the inner group, and a lower outturned flange engaging the lower end of the outer group, a spring plate and means



to adjust said plate to collectively adjust the tension on both the inner and outer group uniformly to vary the pressure setting of said valve.

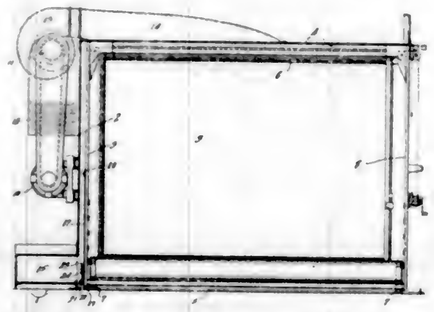
1,679,939. BOTTLE-ADVANCING MECHANISM. FRANCIS R. MAW, Buffalo, N. Y., assignor to Rice & Adams Corporation, Buffalo, N. Y. Filed Feb. 6, 1924. Serial No. 690,996. 28 Claims. (Cl. 198—22.)



1. The combination of a slidable bottle feed member, a lever connected with said member for actuating the same, a connecting rod for swinging said lever, a pair of cranks for actuating said connecting rod, and means for varying the axis of one of said cranks relatively to the fulcrum of said lever to change the throw of said feed member.

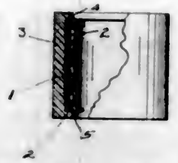
13. In a combined filling and capping machine having a rotary bottle filling mechanism and a capping mechanism, the combination of a deflector for removing bottles from said rotary filling mechanism, a pair of guide bars between which the bottles are passed after leaving said deflector, and which are disconnected from said deflector and means for simultaneously adjusting said guide bars towards and from each other and for moving said deflector to maintain the same in operative relation to said guide bars to enable the machine to operate on bottles of different sizes.

1,679,940. DAMPER FOR BLANKET AND CURTAIN DRYING MACHINES. JOHN E. MCCARTHY, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 28, 1927. Serial No. 222,675. 5 Claims. (Cl. 34—40.)



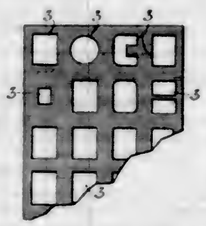
1. Drying apparatus, comprising a drying room, a stretcher frame movable into and out of said room through an opening therein and having a member adapted to close said opening when moved to outer position, said member being perforated, a damper movable on said member to open or close said perforation, and cam means arranged to control said damper movement dependent upon said movement of said frame.

1,679,941. STEERING-COLUMN BUSHING. FRED C. MORRIS, San Francisco, Calif. Filed Dec. 21, 1927. Serial No. 241,520. 3 Claims. (Cl. 308—238.)



1. A bushing for motor car steering wheels comprising a bushing knurled inside and outside, a fabric bushing within the knurled bushing, and a rubber covering for the knurled bushing.

1,679,942. METHOD OF PREPARING LARGE ASSEMBLED NEGATIVES FOR PHOTOREPRODUCTION WORK. ALFRED J. NEWTON, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed June 28, 1927. Serial No. 202,141. 1 Claim. (Cl. 95—79.)

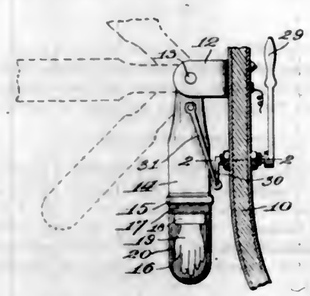


In the method of preparing large assembled negatives for photo-reproduction work, the steps of coating a glass plate with a waterproof lacquer which is opaque to actinic light, can be cut without chipping, and can be stripped from the glass, cutting and stripping said coating from separate areas to leave the latter transparent but surrounded by a mask of said coating, and attaching film negatives over said areas, said negatives being cut at least large enough to cover said areas.

1,679,943. PROCESS FOR REDUCING THE VISCOSITY CHARACTERISTICS OF CELLULOSE ETHERS AND PRODUCTS THEREOF. CHAUNCEY U. PRACHEL and LEONARD E. BRANCHEN, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 21, 1925. Serial No. 76,888. 10 Claims. (Cl. 260—152.)

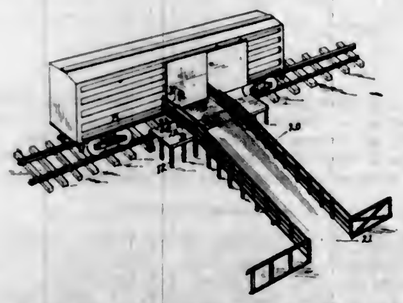
1. The process of treating cellulose ether which comprises acting thereon with an acid until the viscosity characteristics of said cellulose ether are lowered at least one-third.

1,679,944. AUTOMOBILE SIGNAL. JOHN F. RAUSCHELBACH, Los Angeles, Calif. Filed Apr. 20, 1927. Serial No. 185,158. 4 Claims. (Cl. 116—48.)



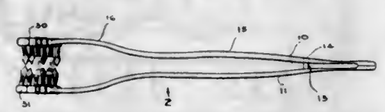
1. In a direction indicating signal for automobiles, a bracket adapted to be secured to the side of a motor vehicle, an arm pivotally mounted on said bracket for vertical swinging movement, a hollow box-shaped member formed in a single piece from translucent material carried by the outer end of said arm, the side walls of which hollow member are substantially parallel, the centrale area of each side wall of said hollow member bearing the representation of an open hand and that portion of the side wall of the hollow member that surrounds the representation of said open hand being distinctively colored.

1,679,945. MOVABLE PLATFORM FOR UNLOADING STOCK. FRANK RIEDER, Huntington Park, Calif. Filed Sept. 8, 1925. Serial No. 55,055. 2 Claims. (Cl. 119—82.)



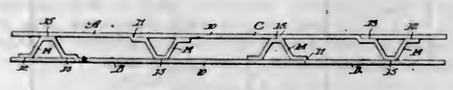
1. A car loading and unloading platform, comprising a stationary platform and a movable platform mounted thereon, adapted to be projected beyond the edge of the stationary platform, braces pivoted to the stationary platform adapted to be swung outwardly therefrom to support the projecting ends of the movable platform, spring means for urging the braces into outermost position and flexible elements connecting said braces to the movable platform whereby when the movable platform is moved into its retracted position the braces will be swung against the side of the stationary platform.

1,679,946. DUPLEX TOOTHBRUSH. GUY M. RUFF, Los Angeles, Calif. Filed June 8, 1927. Serial No. 197,470. 2 Claims. (Cl. 15—167.)



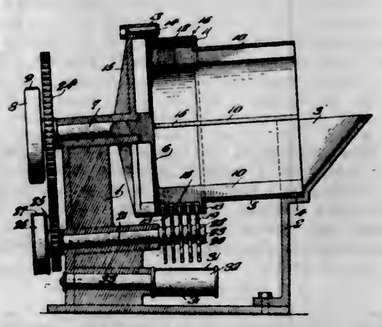
1. A toothbrush comprising a pair of handles, an inclined flat portion having a groove thereon on the ends of each of said handles, brush backs having bristles embedded therein, U-shaped wire clips attached to said backs and extending outwardly therefrom, said flat portion being receivable between the U-shaped wire clips and said backs, certain of said wire clips resting in said grooves.

1,679,947. WALL BOARD. HAROLD C. SANBORN, Chicago, Ill. Filed Dec. 11, 1926. Serial No. 154,101. 5 Claims. (Cl. 72—16.)



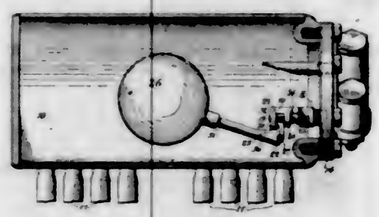
1. A strip of wall board having a thin main portion bounded by two parallel planes, parallel edges on said strip, one of said sides being depressed the depth of said strip so as to receive the other side of the next strip in overlapping relation, and means on said strips for spacing two of said strips when placed back to back.

1,679,948. TOBACCO-FEEDING MECHANISM. WALTER H. SCHUSSLER, Philadelphia, Pa. Filed May 8, 1926. Serial No. 107,630. 3 Claims. (Cl. 131—39.)



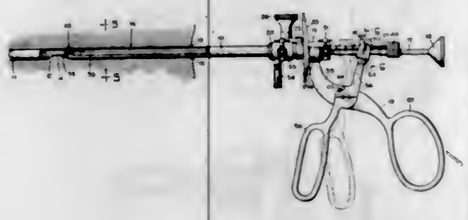
1. Tobacco feeding mechanism comprising a revoluble drum having its axis of rotation inclined to the horizontal and having a discharge opening at its lower end, and means to remove tobacco from said opening.

1,679,949. FLOAT-VALVE MECHANISM. FRANKLIN G. SLAGEL, Buffalo, N. Y., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed July 5, 1927. Serial No. 203,306. 5 Claims. (Cl. 137—104.)



3. A float valve mechanism comprising a body having a passage provided at its front end with a valve seat, a bracket projecting forwardly from the upper front part of said body and provided at its front end with a depending supporting arm and on its intermediate part with a depending guide arm, a valve stem guided on said guide arm to move axially in line with said seat and provided at its rear end with a valve movable toward and from said seat, an elbow lever pivoted at its elbow on said arm and having a rear arm projecting upwardly from said pivot and connected with the front end of said valve stem and a front arm projecting forwardly from said pivot, a float mounted on said front arm, and an adjustable screw stop arranged in said supporting arm and adapted to arrest the forward movement of said valve stem.

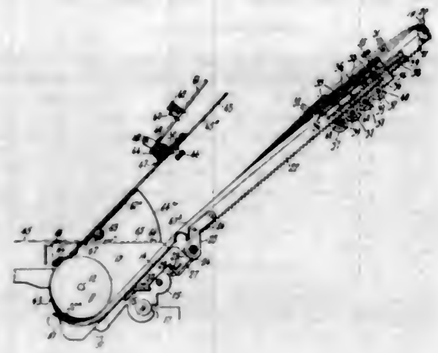
1,679,950. METHOD AND APPARATUS FOR SURGICAL RESECTION. MAXIMILIAN STERN, New York, N. Y. Filed Dec. 18, 1925. Serial No. 76,140. 36 Claims. (Cl. 174—89.)



1. In a speculum of the character described, an endoscopic tube, and a movable electrode mounted therein for reciprocating longitudinal movement with respect thereto, said electrode comprising a conducting element arranged and constructed to lie substantially in a plane perpendicular to the tube axis and hence perpendicular to its line of travel.

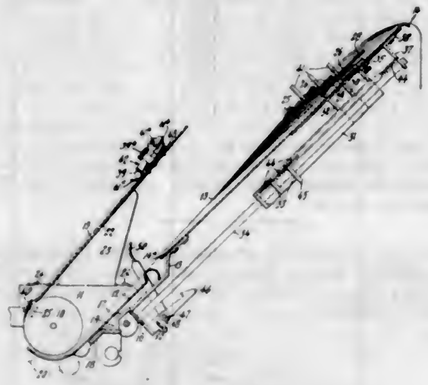
1,679,951. TYPEWRITING MACHINE. BURNHAM C. STICKNEY, Portsmouth, N. H., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed July 1, 1925. Serial No. 40,741. 26 Claims. (Cl. 197—126.)

1. In a web-manifolding typewriting machine, the combination with a platen and types, of tracks extending rearwardly from the intake side of the platen, a set of carbon-strippers individual to the carbons and movable independently of one another along said tracks towards



and away from the platen, and parallel motion mechanisms individual to said strippers and movable relatively to said tracks, for guiding said strippers in parallelism.

1,679,952. TYPEWRITING MACHINE. BURNHAM C. STICKNEY, Portsmouth, N. H., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Continuation of application filed June 17, 1925, Serial No. 37,609. This application filed July 9, 1925. Serial No. 42,382. 57 Claims. (Cl. 197—126.)

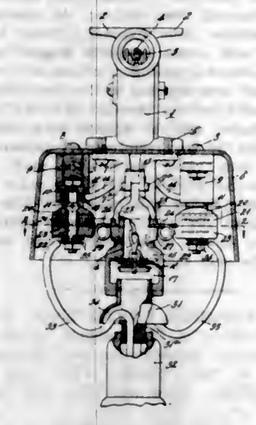


1. A multiple-ply web-manifolding typewriting machine, including, in combination, a platen, types and a multiplicity of strippers individual to superposed carbons, said strippers movable seriatim to strip the carbons one by one, between the work-sheets and relatively thereto.

1,679,953. LAMP-HANGER STRUCTURE. ALLISON J. THOMPSON, Cleveland, Ohio. Filed Jan. 24, 1925. Serial No. 4,503. 6 Claims. (Cl. 240—66.)

1. In a lamp hanger structure, a lamp carrying hanger means provided with an upwardly extending projection, an electric contact for the lamp of said hanger means, and a support for said contact provided with an

opening to receive the projection of said hanger means, whereby said support may be hung upon said hanger means, the removal of said contact support from said



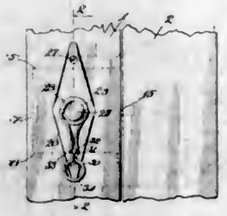
hanger means being effected solely by lifting movement of said contact support and without the manipulation of a screw, nut or the like.

1,679,954. PIPE-BENDING APPARATUS. GEORGE CLIFFORD WEBBER, Los Angeles, Calif. Filed June 22, 1926. Serial No. 117,703. 12 Claims. (Cl. 153—32.)



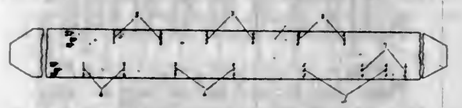
1. A pipe bending device comprising in combination, a pipe holder having a flat base to rest on a floor or the like, said holder having a longitudinal passage on one side and open at the side and with a belled mouth, means to secure the holder in position, and means to grip a pipe and bend same, the main body of the pipe being retained in the passage of the holder.

1,679,955. FRENCH WINDOW AND DOOR CASEMENT FASTENER. BERT E. BARTHOLOMEW, Pasadena, Calif., assignor to Sands Production Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 16, 1927. Serial No. 175,737. 2 Claims. (Cl. 292—140.)



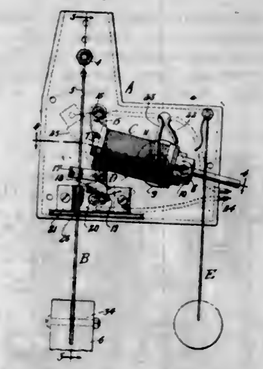
1. A door catch comprising in combination a substantially rectangular casing, a rectangular follower slidably and loosely mounted in said casing, a substantially elliptical aperture extending through said follower, a cylindrical member eccentrically mounted in said casing, extending through said aperture, a bolt extending from said follower through said casing, a handle member keyed to said cylindrical member, serving as a shaft upon which said cylindrical member is eccentrically mounted, said handle member extending exteriorly of said casing, a fastening member pivoted to said handle member so as to swing therefrom, there being a catch on said fastening member and a stationary lug over which said catch is adapted to be inserted to hold said handle stationary, whereby said follower will be fastened against movement.

1,679,956. PHOTOGRAPHIC-FILM CARTRIDGE. CARL A. BORNMANN, Binghamton, N. Y., assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed Feb. 16 1926. Serial No. 88,593. 1 Claim. (Cl. 95—9.)



A photographic film cartridge including a strip of sensitized film, and an overlying strip of protective material having a set of uniformly spaced exposure indicating characters therein, a second set of exposure indicating characters on said strip, the spaces between said characters of said second set progressively increasing from one end.

1,679,957. ELECTRIC MOTOR. CHARLES T. BRADSHAW, Philadelphia, Pa., assignor to Eugene Carraine, Philadelphia, Pa. Filed Dec. 17, 1924. Serial No. 756,451. 6 Claims. (Cl. 172—126.)

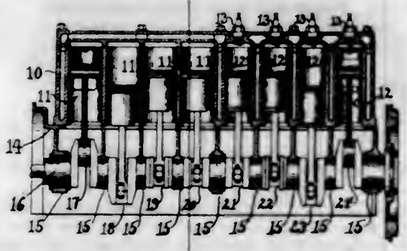


2. In an electric motor, the combination of a support, an electro-magnet carried thereby, a pendulum mounted on the support and having an armature adjacent to said electro-magnet, a member movable on the support and provided with an electrical contact part and two spaced abutments between which the pendulum extends, a fixed contact part, means to include the electro-magnet and said contact parts in an electric circuit which may be opened and closed by said contact parts, the pendulum and the abutments being constructed to move the contact part carried by the member into engagement with the fixed contact part when the pendulum swings from the electro-magnet and out of engagement with the fixed contact part when the pendulum swings toward the electro-magnet, and means operable to vary the distance between the electro-magnet and the armature of the pendulum.

1,679,958. INTERNAL-COMBUSTION ENGINE. EVERETT R. BURTNETT, Los Angeles, Calif., assignor, by direct and mesne assignments, to The Automotive Valves Corporation, Reno, Nev., a Corporation. Filed Mar. 31, 1926. Serial No. 98,736. 2 Claims. (Cl. 123—60.)

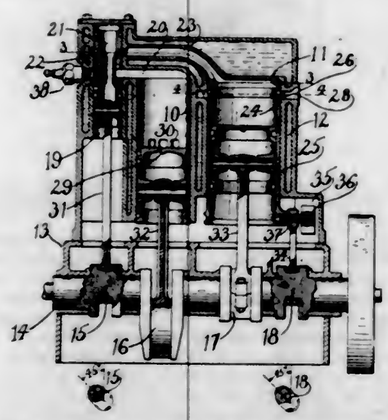
1. In a two-stroke cycle internal combustion engine, eight cylinders arranged in a row with their axes paral-

lel, the four cylinders at the forward end of the row functioning as charge pumping cylinders, the four cylinders at the rear end of the row and from which the power is taken, functioning as combustion cylinders, pistons arranged for operation within the eight cylinders, a crankshaft having eight separate throws to which the eight pistons are respectively connected, the first and second crank throws of the crankshaft from each end



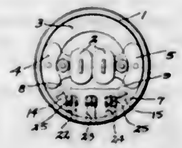
thereof, being arranged 180° apart and occupying the same relative radial positions, the third and fourth crank throws from each end of the crankshaft being disposed 180° apart and occupying the same relative radial positions, and said second and third crank throws from each end of the crankshaft being disposed 90° from the first and second crank throws from each end of said crankshaft.

1,679,959. INTERNAL-COMBUSTION ENGINE. EVERETT R. BURTNETT, Los Angeles, Calif., assignor, by direct and mesne assignments, to The Automotive Valves Corporation, Reno, Nev., a Corporation. Filed Apr. 6, 1926. Serial No. 100,042. 4 Claims. (Cl. 123—70.)



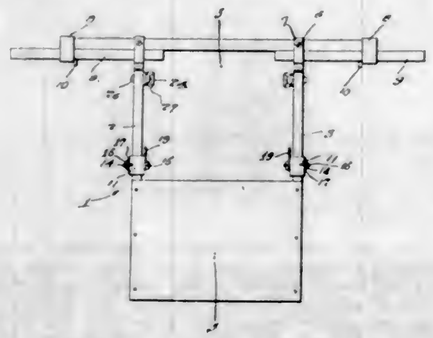
1. In a two stroke cycle internal combustion engine, the combination of a combustion cylinder, an inlet valve cylinder, a passage communicating between the said inlet valve cylinder and the said combustion cylinder, a valve of balanced area exposed to the combustion chamber arranged for reciprocatory movement within the said inlet valve cylinder, a charge pumping cylinder, the three cylinders being arranged in a row with their axes parallel and the combustion cylinder being arranged between the pumping cylinder and the inlet valve cylinder, an inlet sleeve valve arranged for reciprocatory movement within the said charge pumping cylinder, a charge pumping piston arranged for reciprocatory movement within the said sleeve valve of the charge pumping cylinder, a series of ports formed through the wall of the said inlet valve cylinder, a duct leading from the head end of the said charge pumping cylinder to the said ports, said duct being disposed directly above and parallel with the passage that leads from the combustion chamber to the inlet valve chamber, a second series of ports formed through the wall of the charge pumping cylinder, an annular duct extending from a source of supply to the said series of ports formed in the wall of the charge pumping cylinder, means of actuating the valve of balanced area exposed to the combustion chamber whereby the ports formed through the wall of the said inlet valve cylinder will be opened and closed in two stroke cycle time by the reciprocatory movement of the said balanced area valve within the said inlet valve cylinder and means whereby the sleeve valve within the charge pumping cylinder will open and close the series of ports formed in the wall of the said charge pumping cylinder in two stroke cycle time by the reciprocatory movement of the said sleeve valve.

1,679,960. ELECTRICAL CONNECTION. NICHOLAS J. CELENZA, Brooklyn, N. Y., assignor, by mesne assignments, to Brandes Laboratories Inc., Newark, N. J., a Corporation of New Jersey. Filed July 25, 1925. Serial No. 46,171. 2 Claims. (Cl. 173—33.)



1. A terminal block, a plurality of resilient-sleeve-like contacts therein, said block and said contacts having aligned entrances located at one side of said block to admit a plurality of terminal tips, each of said contacts comprising a split cylindrical portion with an inwardly extending annular ridge adjacent one end thereof, and a collar member extending around each of said contacts and having extended portions passing through said block to provide a lug by means of which an electrical conductor may be connected to the contacts, each of said tips comprising a cylindrical portion and a spherial head separated by a neck portion, said neck portion being arranged to be gripped by said annular ridge within said sleeve-like contacts when said terminal tips are forced into said sleeve-like contacts.

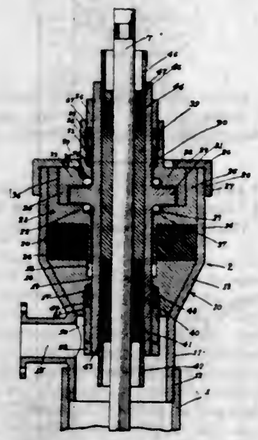
1,679,961. ADJUSTABLE WINDOW JACK. EDWIN L. EMBREY, Springfield, Mo. Filed Dec. 20, 1927. Serial No. 241,359. 1 Claim. (Cl. 304—24.)



In a window jack of the class described, a pair of spaced longitudinal bars, the outer ends thereof adapted to extend outwardly of a window frame, a seat board

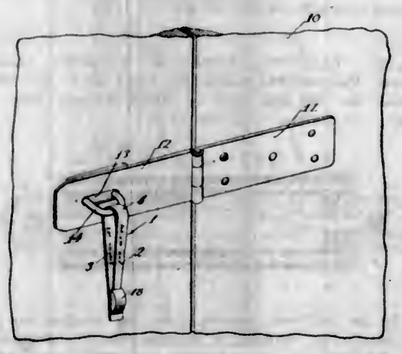
arranged across the outer ends of the bars, an adjustable cross member secured on the inner ends of the bars and adapted to engage the inner face of the window frame, main sill engaging feet carried by the longitudinal bars, and means for holding said feet against the outer edge of the subsill of the window, said last mentioned means comprising a flexible element secured at one end to one side of each foot, a looped member at the inner end of each longitudinal bar through which the intermediate portion of the respective flexible member extends, the free end of the flexible member being adjustably secured to the other side of the respective foot.

1,679,962. BLOW-OUT PREVENTER. LESTER M. CRANS, Venice, Calif. Filed Jan. 18, 1927. Serial No. 161,776. 10 Claims. (Cl. 255—1.)



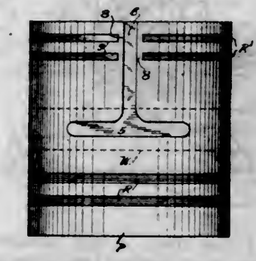
1. A blow out preventer comprising in combination a well casing, a casing head structure connected thereto, a plug, a first packing and a bearing element, in the casing head structure, a tubular sleeve having a bearing on the bearing structure, a rotatable rod extending through said sleeve, packing between the rod and the sleeve, and packing between the sleeve and the said plug, the first packing being between the plug, the bearing element and the casing structure.

1,679,963. CAR SEAL. ANDREW J. EASON, San Bernardino, Calif. Filed Nov. 10, 1926. Serial No. 147,452. 3 Claims. (Cl. 292—320.)



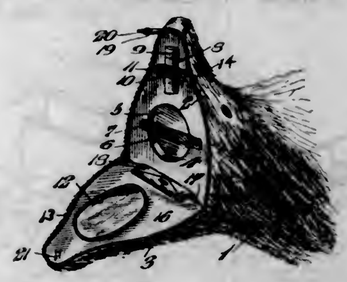
1. A seal for car doors comprising a U-shaped member of flat resilient material, one of the arms of said member having a curved outer portion, said portion having apertures therethrough, the other arm being bent to provide a flat portion, a plate having an up-struck tongue fastened to said flat portion, a curved plate having three adjacent edges fastened to said flat portion and overlying the same, a second curved plate having an upstruck tongue secured to the under side of the first mentioned curved plate, said curved plates being adapted to have the curved portion of said first mentioned arm inserted therebeneath, said upstruck tongues being adapted to engage in said apertures to prevent removal of said arm from beneath said curved plates.

1,679,964. COUNTERTHRUST PRESSURE PISTON. CLARENCE G. EDWARDS, Los Angeles, Calif. Filed Mar. 22, 1926. Serial No. 96,521. 12 Claims. (Cl. 74—108.)



1. A piston of cylindrical form and having wrist-pin, and having in its external cylindrical surface a shallow recess for the flow of motive pressure; said recess extending from the piston head corner down to about the plane of the wrist-pin axis.

1,679,965. VANITY CASE AND POCKETBOOK FOR ANIMAL HEADS. ROBERT EISENBERG and MAX RAJEWSKY, Chicago, Ill. Filed June 28, 1926. Serial No. 119,042. 2 Claims. (Cl. 2—65.)



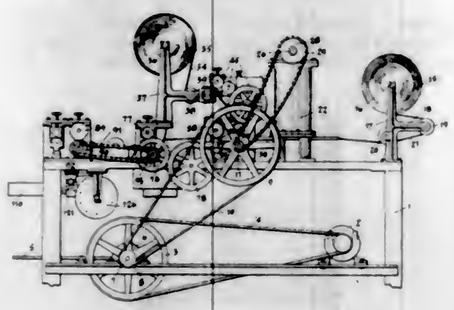
2. The combination with an animal head having an upper and a lower jaw, of a vanity and pocket book container comprising two hinged members secured in and to said jaws, a lining covering the inner faces of said members and secured thereto, said lining being tensioned across the plane of hinging and also extending rearwardly beyond the plane of hinging to form a pouch, said lining having means to receive vanity appliances, and means to secure said jaws in closed position.

1,679,966. PROCESS OF MAKING CELLULOSE ACETATE. EDWARD S. FARROW, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed September 5, 1925. Serial No. 54,816. 2 Claims. (Cl. 260—101.)

1. The process of making cellulose acetate, which comprises treating cellulosic material with an aqueous solu-

tion of hydrochloric acid having a concentration greater than 25% and free from oxidizing agents at room temperature for two to six hours, the action being stopped before the physical appearance of said material is appreciably changed, and thereafter acetylating the treated materials.

1,679,967. DISPENSING MACHINE. ADINO F. FILES, Maumee, Ohio. Filed May 27, 1927. Serial No. 194,837. 17 Claims. (Cl. 93—1.)



1. In a dispensing machine having means for dispensing portions of a material in spaced relation on a strip of paper, means for feeding a pair of strips of paper through the machine, means for imprinting outlines of cementitious material on the other of the strips, squeeze rollers, one of the squeeze rollers having a cushioned surface for squeezing the air from and flattening the material located between the said strips.

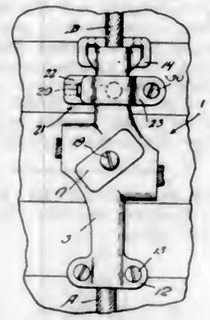
1,679,968. OIL PACKAGE. FREDERICK D. GATCHELL, New York, N. Y. Filed Oct. 23, 1925. Serial No. 64,383. 2 Claims. (Cl. 224—45.)



1. Means for carrying independent cans or like sealed containers, comprising a box or casing to receive a row of cans, cans having their tops equipped upstanding angular lugs, and an element performing the dual office of a cover for the box and a clip for the cans, said element having pairs of reversely formed depending claws adapted for engagement or disengagement with said lugs.

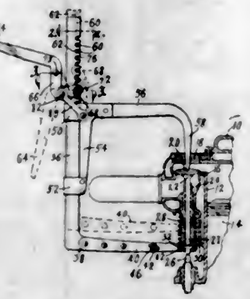
1,679,969. DETACHABLE CONNECTION FOR THE CABLES OF LIGHTNING-ARRESTER SYSTEMS. HENRY HERZ, Jersey City, N. J. Filed Jan. 26, 1925. Serial No. 4,877. 2 Claims. (Cl. 173—31.)

1. A device of the class described comprising a connection including a pair of complementary sections, said sections being provided with cooperating channels for receiving the end portions of a pair of cables, the intermediate portion of one of said sections being provided with an opening which communicates with the channels formed in said sections, a member adapted to



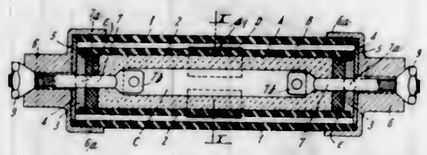
be disposed within the opening for securing the free ends of the cables in said connection, and means for detachably securing the sections together.

1,679,970. VALVE-SPRING LIFTER AND REMOVER. CHARLES E. HIRST, Ames, Iowa. Filed Mar. 9, 1927. Serial No. 173,926. 6 Claims. (Cl. 29—86.3.)



6. In a tool of the class described, a bar, a valve engaging member slidably mounted thereon, there being an extension on said bar, spreadable spring seat engaging members supported on said extension, and means for operating said tool by moving the valve engaging member relative to the bar, said means comprising a series of notches in the bar, a handle pivoted selectively in said notches and link connections between the valve engaging member and the handle.

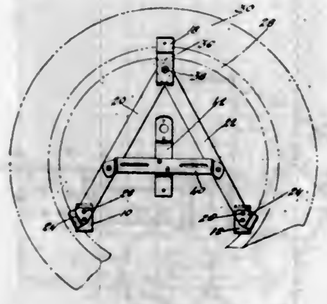
1,679,971. ELECTRIC FUSE OR CUT-OUT. VERNON HOPE, Macclesfield, England. Filed Nov. 21, 1922, Serial No. 602,454, and in Great Britain Nov. 28, 1921. 10 Claims. (Cl. 200—128.)



1. In an enclosed electric fuse; in combination;—a fuse containing chamber, a fusible element enclosed in said chamber, an incombustible material surrounding the fusible element and enclosed in said chamber, connected to the respective two ends of the fusible element and passing out of the said chamber in gas-tight man-

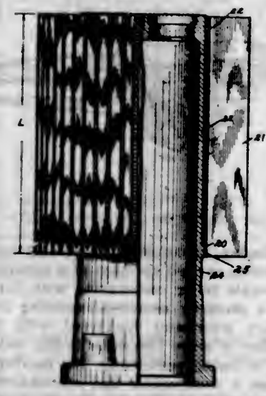
ner, an expansion chamber, a communicating passage-way between the said chambers and means adapted to close the said passage-way and adapted, when the pressure in the fuse containing chamber reaches a predetermined value, to open the said passage-way.

1,679,972. TIRE CARRIER. ORMOND E. HUNT, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 19, 1924. Serial No. 714,348. 6 Claims. (Cl. 224—29.)



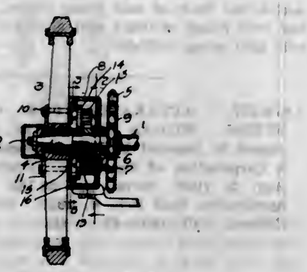
6. In a tire carrier, the combination of a pair of spaced supporting brackets, each having a lateral flange, a brace member connecting said brackets and having its opposite end portions overlying the flanges of the respective brackets, a pair of outwardly diverging rim supporting members, having portions overlying the flange of one of said brackets, common means for securing the overlying portions of the last mentioned bracket, the rim supporting members and adjacent end portion of the brace in assembled relation, a tire engaging clamp cooperatively associated with the other of said brackets to hold a spare tire thereon, and having a portion overlying the flange of said bracket, and common means for permanently securing the overlying portions of said flange and brace in assembled relation and detachably securing the clamp in place.

1,679,973. ENGINE CYLINDER. JAMES M. H. JACOBS, Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Dec. 13, 1922. Serial No. 606,760. 3 Claims. (Cl. 257—261.)



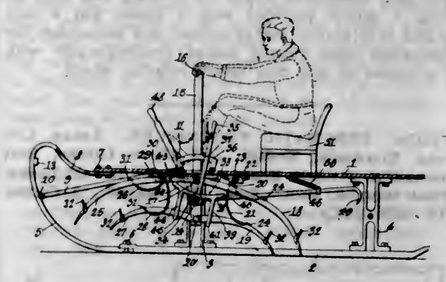
1. A finning structure adapted to be secured upon cylinders of internal combustion engines, comprising a strip of metal provided upon one face with a plurality of transverse spacing lugs, and on the other face with cross ribs extending parallel with said lugs, each rib being of considerably greater height than thickness, the strip being sufficiently thin between ribs to be flexible.

1,679,974. TRANSMISSION MECHANISM. DANFORD JEWELL, Spokane, Wash., assignor of one-half to Harve H. Phipps, Spokane, Wash. Filed Apr. 8, 1924, Serial No. 704,931. Renewed Apr. 23, 1928. 1 Claim. (Cl. 74—7.)



The combination with a shaft and traction wheel journaled thereon, an internal gear carried by said wheel, of a fixed housing inclosing the gear, a sleeve journaled on the shaft having a bearing within the housing, an exterior driving sprocket and an interior driving pinion integral with the sleeve, a series of studs fixed in said housing and driven pinions journaled thereon, an integral disk for each pinion, and a plurality of diametrically spaced pins on each disk for co-action with said internal gear.

1,679,975. SLED. JOHN JULIANO, Niagara Falls, N. Y. Filed Sept. 7, 1927. Serial No. 218,076. 6 Claims. (Cl. 208—158.)

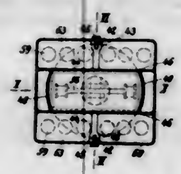


1. In a sled, a pair of runners, standards secured to the runners, a shaft mounted in the standards, a driving lever pivoted on the shaft, a forwardly driving propeller pivoted to the driving lever, a rearwardly driving propeller pivoted to the driving lever, and means for selecting one of the propellers for contact with the ground and for raising the other propeller out of contact therewith at the same time.

1,679,976. INTERNAL-COMBUSTION ENGINE. HUGO JUNKERS, Dessau, Germany. Filed Apr. 9, 1927. Serial No. 182,323, and in Germany Apr. 16, 1926. 9 Claims. (Cl. 123—66.)

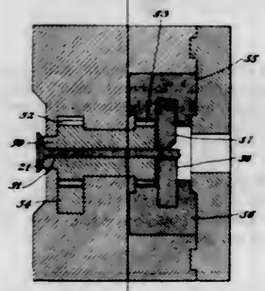
7. Internal combustion engine comprising a substantially cylindrical working cylinder and piston and a scavenging air pump cylinder and piston, said pump

piston having outwardly the form of a sector of a cylinder, said pump cylinder having a cross-section to



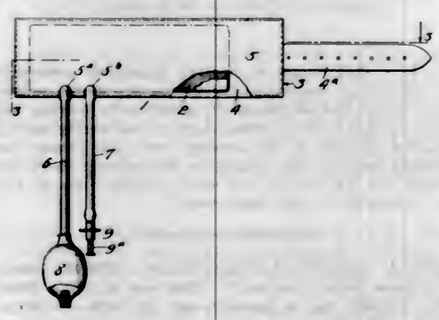
match the form of said pump piston, a casing surrounding said pump cylinder and a valve in said casing outside said pump cylinder.

1,679,977. APPARATUS FOR CUTTING VALVE STEMS. WILLIAM S. KNUDSEN, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Original application filed Apr. 2, 1925, Serial No. 20,165. Divided and this application filed Feb. 6, 1926. Serial No. 86,553. 7 Claims. (Cl. 164—47.)



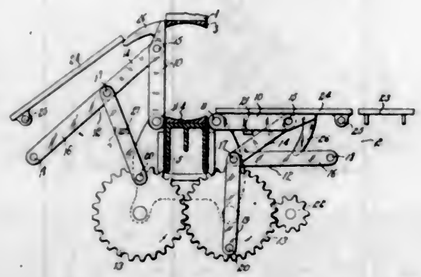
1. An apparatus for cutting off the stem of a valve, or the like, comprising means for rotating said stem including a carrier provided with a pinion and a rack engaging said pinion, cutting means, and mechanism for reciprocating said cutting means simultaneously with the actuation of said first named rotating means.

1,679,978. PNEUMATIC TOURNIQUET. ABRAM LINCOLN KONWISER, Newark, and DAVID LOESER, East Orange, N. J.; said Konwiser assignor to said Loeser. Filed May 14, 1926. Serial No. 108,992. 3 Claims. (Cl. 128—327.)



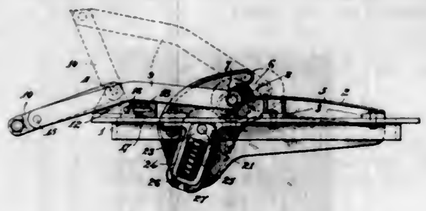
2. A pneumatic tourniquet embodying an inflatable bag, air-pumping means connected with said bag, and air-release means also connected with said bag and comprising a hollow metallic valve element having an air-release aperture and a valve member having a positive sliding movement to close and open said aperture.

1,679,979. HIGH-DENSITY ATTACHMENT FOR COMPRESSES FOR COTTON BALES. GEORGE W. LANGFORD, ALFORD C. BARROWS, and CHARLES W. GOOD, Ann Arbor, Mich., assignors to Economy Baler Company, Ann Arbor, Mich., a Corporation of Michigan. Filed Sept. 14, 1925. Serial No. 56,327. 9 Claims. (Cl. 100—19.)



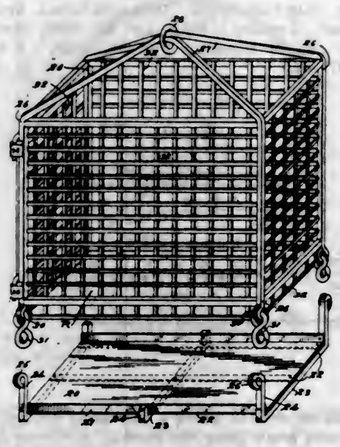
1. The combination with a compress for cotton bales, of a high density attachment, including a side platen and means for actuating the same, including toggle levers connected to said side platen, a revoluble member and a link between said revoluble member and toggle levers for acutating the latter from the former.

1,679,980. MOP WRINGER. SIMEON C. LAWLOR, Chicago, Ill., assignor to S. C. Lawlor Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 10, 1924. Serial No. 698,168. 2 Claims. (Cl. 15—262.)



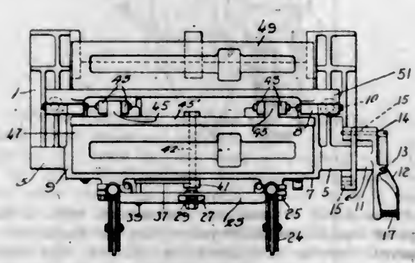
1. In a wringing apparatus, the combination, with a frame and a roller carried thereby, of a rotatably mounted, bodily movable roller cooperating with the first-mentioned roller, a pivotally mounted operating lever, a link pivoted to said lever and connected with the second mentioned roller to move the same bodily, said lever being mounted to swing sufficiently for moving the pivot of the link past a dead center line represented by a line intersecting the axis of pivoting of the lever and the axis of rotation of the bodily movable roller, and adjustable means for supporting said lever at various points substantially at and beyond said dead center line.

1,679,981. PORTABLE BUILDING-MATERIAL CONVEYER. JOHN D. LAWRENCE, San Diego, Calif. Filed Jan. 31, 1927. Serial No. 164,818. 2 Claims. (Cl. 294—67.)



1. A conveying receptacle including a tray having bottom supporting bars with upturned ends having eyes, a cage having corner alining bars with the said ends having eyes at their lower ends, and safety hitches for detachably connecting the tray to the eyes of the corner bars of the cage.

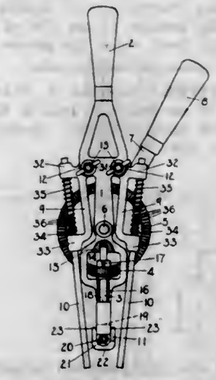
1,679,982. BOOKING CORE MACHINE. ARNOLD LENZ, Saginaw, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Oct. 21, 1925. Serial No. 64,038. 22 Claims. (Cl. 22—10.)



22. In a booking core machine, a base, a rollover table pivoted thereto, a core box carried by the rollover table, a second core box mounted so as to be brought into face to face contact with the first core box and means to raise the second core box from the first.

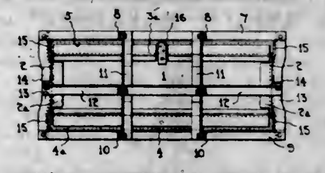
1,679,983. VALVE GRINDER. DONATO MANCINI, Saxonville, Mass. Filed May 27, 1926. Serial No. 111,985. 2 Claims. (Cl. 51—29.)

1. The combination, in a valve grinder, with a frame provided with a handle, a spindle, for a valve-engaging member, journaled in said frame, a driven member secured to said spindle, and a driving member mounted on said frame and engaging said driven member, said driving member being provided wtih an operating arm, of holders pivotally connected and parallel with said frame,



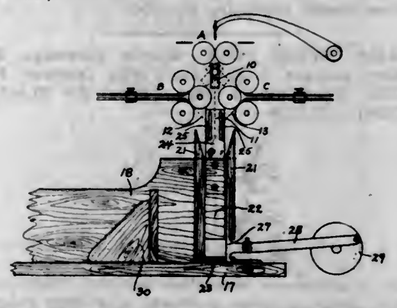
and having upper and under bearings, and legs carried by said holders in said bearings, said holders being adjustable to increase or decrease the distance between said legs.

1,679,984. CONTAINER FOR LIQUIDS. JOHN WALTER MCCONNON, Palmerston North, Wellington, New Zealand. Filed Sept. 9, 1926, Serial No. 134,522, and in New Zealand Aug. 10, 1926. 3 Claims. (Cl. 220—6.)



1. A container comprising a receptacle of relatively fragile material, a protective casing surrounding said receptacle and composed of sectional members arranged to cover the surfaces of the receptacle, a cushion lining on the inner face of said sections, and reinforcing ribs on the outer surface of said sections extending at an angle to the edges of each section and projecting beyond said edges, the projected end of said ribs of adjacent sections being detachably secured together.

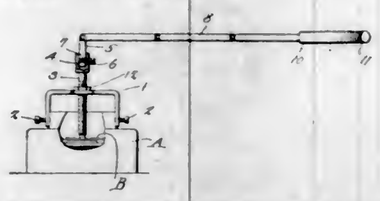
1,679,985. PAPER-FOLDING MACHINERY. JOHN MENTGES, Sidney, Ohio, assignor to The Mentges Folder Company, Sidney, Ohio, a Corporation of Ohio. Filed Nov. 8, 1926. Serial No. 146,935. 10 Claims. (Cl. 271—86.)



1. In a machine for folding paper, a guide comprising two vertical members mounted with a comparatively narrow space between them, by which members papers are

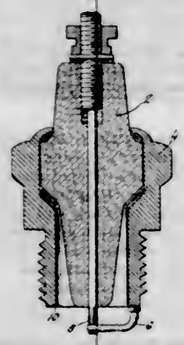
guided downwardly, means whereby papers are carried from either of two opposite directions to the upper end of said space, at an angle to said members, and means at the upper end of said space whereby to deflect the papers downwardly thereinto and thereby prevent the papers striking the member at the side of the space opposite to the point from which the papers come.

1,679,986. RECEIVER. CHARLES A. PLANTE, Madison, Wis., assignor of one-fourth to Paul R. Kaproth, Madison, Wis. Filed June 10, 1927. Serial No. 197,880. 2 Claims. (Cl. 179—107.)



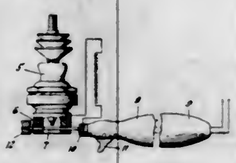
1. A device of the class described including means for clamping upon and receiving vibrations from a vibratory sound producing element, a mouth-piece, and a connection between the mouth-piece and the clamping member for conducting vibrations from said member to the mouth piece, said connection having a plurality of joints and being swiveled to the clamping member.

1,679,987. SPARK PLUG. HECTOR RABEZZANA, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed July 9, 1925. Serial No. 42,489. 7 Claims. (Cl. 123—169.)



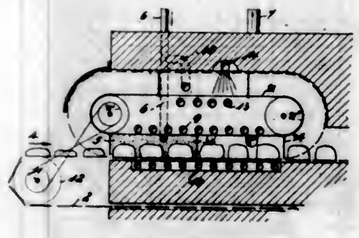
7. A spark plug comprising a shell having an electrode, an insulator in the shell, an electrode in the insulator, the portion of the shell which is normally exposed to the hot combustion gases and the said electrodes being coated with an enamel containing tin oxide.

1,679,988. SPARK PLUG. HECTOR RABEZZANA, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich. Filed Mar. 1, 1926. Serial No. 91,487. 5 Claims. (Cl. 219—1.)



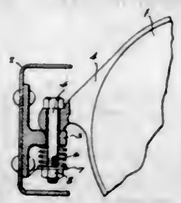
1. A spark plug including an electrode wire, a bottom wall provided with orifices of diameters somewhat larger than the diameter of the said wire, to receive the ends of the said electrode wire expanded thereinto by a combined heating and pressing operation, the said wire being connected to the wall of the spark plug in an intermediate union less than a weld.

1,679,989. BAKING OVEN. HEINRICH ROSER, Stuttgart-Cannstatt, Germany. Filed Apr. 29, 1925, Serial No. 26,786, and in Germany Feb. 28, 1925. 4 Claims. (Cl. 107—57.)



1. A baking oven in which a passage is defined, means for conveying goods along the passage, partitions adapted to form a substantially closed chamber in the passage and means for supplying steam to and discharging steam from the chamber thus formed, said partitions being arranged to move along the passage in conformity with the motion of the goods.

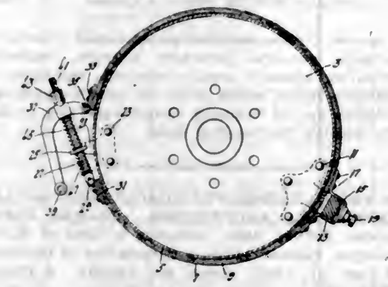
1,679,990. ENGINE MOUNTING. ERIC OLIE SCHJOLIN, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 13, 1927. Serial No. 198,453. 2 Claims. (Cl. 180—64.)



1. In a motor vehicle, the combination with a pair of spaced chassis frame members and an engine to be supported thereon, of connections between said frame and the front and rear of the engine on a line intersecting the approximate center of gravity of the engine, an engine flywheel located beyond the rear connection, and an engine radiator located beyond the front connection to counterbalance the weight of said flywheel and maintain the stability of the engine in said supporting frame.

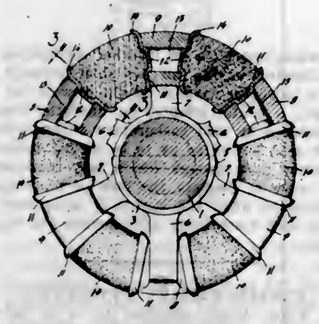
1,679,991. EXTERNAL CONTRACTING BRAKE. HENRY A. SCHWAGER, Royal Oak, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Feb. 5, 1927. Serial No. 166,234. 4 Claims. (Cl. 188—77.)

4. In a brake, a drum, a brake member for frictional engagement with said drum, said brake member being constituted by parts of unequal length, anchoring means for said brake member, means including a lever for applying the parts of brake member to the drum, and springs associated with said lever to release said brake



member, the deflections of the springs under equal loads being in the same ratio as the lengths of the parts of the brake member.

1,679,992. UNIVERSAL JOINT WITH RUBBER INSERTS. CHARLES R. SHORT, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Feb. 23, 1927. Serial No. 170,383. 4 Claims. (Cl. 64—96.)



1. Means to flexibly couple a pair of shafts including spider arms fixed to adjacent ends of shafts to be coupled, the arms on one shaft alternating with those on the other, and resilient elements interposed between said arms consisting of blocks of non-metallic elastic material, the intermediate portions of the blocks being of greater elasticity than the end portions, and retaining members for said blocks having portions for attachment with said arms and having roughened surfaces in engagement with said end portions of the blocks to hold the blocks in place.

1,679,993. HEAT-EXCHANGING STRUCTURE FOR AIR HEATERS AND THE LIKE. OTTO STRACK, Auerbach, Hesse, Germany, assignor of one-half to the Firm Pfälzische Chamotte- und Thonwerke Schiffer & Kircher Aktiengesellschaft, Grunstadt, Germany. Filed Mar. 21, 1927, Serial No. 177,182, and in Germany Mar. 23, 1926. 3 Claims. (Cl. 257—251.)

2. A heat-exchanging structure for air-heaters and the like, comprising sets of superposed refractory bodies of equal external shape, having vertical passages, the number of which passages increases from the uppermost bodies to the lowermost ones and which are regularly distributed in each body having more than one passage, the thickness of the refractory material surrounding said passages decreasing correspondingly and the free total

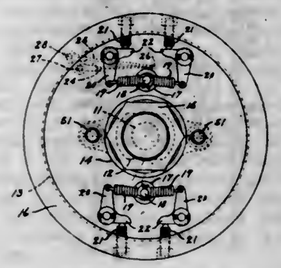


sectional area of the passages in any of said bodies being approximately the same in all bodies substantially as described.

1,679,994. MANUFACTURE OF ACETIC ACID AND ACETATES. PHILIP ARTHUR SMITH, London, and HAROLD GRENVILLE SMITH, Stockton-on-Tees, England, assignors to Synthetic Ammonia & Nitrates Limited, Billingham, Stockton-on-Tees, England, a British Company. Filed Mar. 10, 1927, Serial No. 174,407, and in Great Britain Mar. 13, 1926. 11 Claims. (Cl. 260—116.)

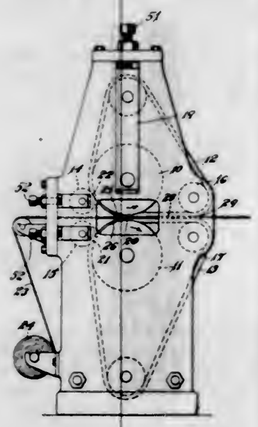
1. Process of producing alkali acetate which comprises causing free methanol to react with at least one alkali formate ingredient.

1,679,995. TORSIONAL VIBRATION INDICATOR AND RECORDER. CALEB E. SUMMERS, Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Jan. 21, 1925. Serial No. 3,723. 5 Claims. (Cl. 234—1.)



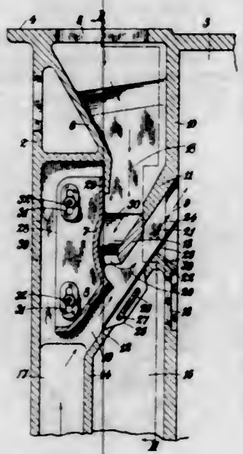
1. A record receiving instrument comprising a plate having an opening, a handle, a centering sleeve within the handle having an open end projecting through the opening beyond the face of the plate and means for holding a record receiving sheet on the plate.

1,679,996. FILIGREE-DESIGN PROCESS. PETER J. TRACY, Hartford, Conn., assignor to The Otaka Fabric Company, Hartford, Conn. Filed Apr. 26, 1926. Serial No. 104,577. 11 Claims. (Cl. 92—69.)



1. The process of forming designs in webs of paper and the like, which consists in progressively applying the web to and pressing the web into frictional engagement with an elastic under tension and relieving the tension.

1,679,997. COAL-PULVERIZING MACHINE. PERCY VENABLES VERNON, Keresley, near Coventry, and RALPH JACKSON, Coventry, England, assignors to Alfred Herbert Limited, Butts, Coventry, England, a British Company. Filed Apr. 12, 1926, Serial No. 101,249, and in Great Britain May 2, 1925. 6 Claims. (Cl. 83—11.)

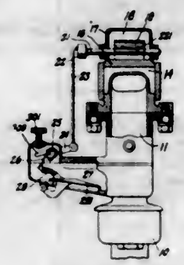


1. A separating device comprising walls defining an air passage extending in a generally upward direction, one of said walls having therein an opening for material to be fed downwardly into the passage against the upcoming current of air, and means for varying the cross-sectional area of said air passage both above and below said opening.

1,679,998. CHLORINATED HYDROAROMATIC PRODUCTS CONTAINING NITROGEN AND PROCESS OF MAKING SAME. THEODOR VOLTZ, Basel, Switzerland, assignor to the Firm Durand & Huguenin S. A., Basel, Switzerland. Filed Feb. 24, 1923, Serial No. 621,095, and in Germany Feb. 23, 1922. 4 Claims. (Cl. 260—60.)

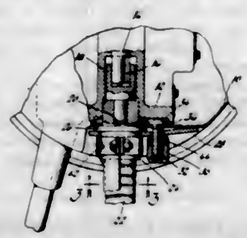
1. A process for the manufacture of highly chlorinated hydroaromatic products containing nitrogen, consisting in chlorinating aromatic amino-compounds suspended in an indifferent liquid, which does not permit hydrolysis, with chlorine gas at ordinary temperature and in subsequently heating the reaction mass.

1,679,999. THERMOSTATICALLY-CONTROLLED CHOKER FOR CARBURETORS. CHARLES ERNEST WILLIAMS, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 21, 1923. Serial No. 646,801. 6 Claims. (Cl. 261—39.)



3. In combination with an internal combustion engine, and a carburetor having an air inlet passage leading thereinto; a valve for controlling the flow of air through said passage; a heater adapted to heat the combustible mixture produced by said carburetor; a thermostat associated with said heater so as to be heated thereby; and means whereby and through which said thermostat acts upon said valve to restrain the flow of air through the passage aforesaid when the engine is being started, and to interrupt such restraining action when the engine has been started.

1,680,000. FLEXIBLE-SHAFT CONNECTION. JOSEPH ZUBATY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich. Filed Feb. 14, 1927. Serial No. 168,069. 4 Claims. (Cl. 64—30.)



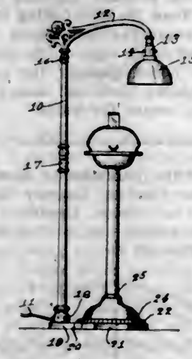
1. A speedometer drive connection comprising, in combination, a speedometer casing, speedometer mechanism within the casing, a bolt secured in said casing, a flexible tube, a flexible shaft within said tube, a clamping member encircling said tube, and a nut engaging said bolt and bearing against said clamping member, said nut being counterbored to prevent engagement with the threads on the bolt until the flexible shaft is in proper driving relation with respect to the speedometer mechanism.

1,680,001. KNIFE. HUBERT ARNOLD, Calgary, Alberta, Canada. Filed Oct. 1, 1926. Serial No. 138,919, and in Canada Dec. 23, 1925. 5 Claims. (Cl. 30—10.)



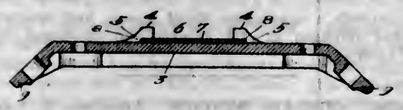
1. A knife of the character described comprising a holder, a cutter mounted in the holder, a cutter retaining latch movably carried by the holder and directly engaging the cutter to retain the latter in operative position, said part serving, when the latch is moved to a cutter releasing position, to partially eject the cutter from the holder in order to facilitate complete removal of the cutter without injury to the hands of the user.

1,680,002. COMBINATION LAMP AND SMOKER'S STAND. CHARLES E. BEARDSLEY and ALVA T. SMITH, Waterbury, Conn., assignors, by mesne assignments, to The Beardsley and Wolcott Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Nov. 21, 1927. Serial No. 234,597. 2 Claims. (Cl. 240—2.)



1. In an article of furniture, a hollow column for carrying electric conductors, a hollow lamp-holding bridge arm mounted on said column, a flat base for said column adapted to rest upon the floor, said base having an enlarged forwardly-extending section having a recess in its upper face, and a smoker's stand having a base fitted into said recess for preventing lateral movement of said stand relative to said base when said base is carried about, the top of said stand being located in a position accessible to the person using the lamp.

1,680,003. DRAFT-GEAR CARRIER IRON AND TANK-BAND ANCHOR. STARLEY F. BEASLEY, Kansas City, Kans., assignor of one-half to Frank E. Wellman, Kansas City, Kans. Filed Dec. 20, 1926. Serial No. 156,039. 2 Claims. (Cl. 213—61.)



1. A carrier iron provided with two sets of upwardly projecting guide lugs, the two sets being spaced apart laterally, and the lugs of each set spaced apart longitudinally, in combination with a shoe fitting flatly on the carrier iron between the laterally spaced lugs, and provided with outwardly projecting lugs fitting in the spaces between the longitudinally spaced lugs.

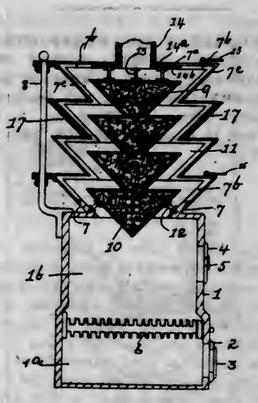
1,680,004. ALUMINUM ALLOY OF HIGH RESISTANCE. HENRI BENIT, Paris, France. Filed Feb. 25, 1926, Serial No. 90,657, and in Germany Feb. 19, 1925. 2 Claims. (Cl. 75—1.)

1. A homogeneous and stable light aluminum alloy capable of being subjected to repeated melting without losing its characteristic properties, said alloy having substantially the following composition:—

2 parts by weight of copper,
0.37 parts by weight of nickel,
027. parts by weight of tungsten,
0.45 parts by weight of magnesium,
96.91 parts by weight of commercial aluminum.

with 2 to 0.5% impurities, cast test bars showing a tensile strength of 22 kgs. per square mm. with 6% expansion and test bars of the forged, stamped or rolled alloy showing a tensile strength of 30 kgs. per square mm. with 23% expansion.

1,680,005. HEATER. HUTCHINSON L. BEVIER, Duluth, Minn.; The First National Bank of Duluth executor of Hutchinson L. Bevier, deceased. Filed Jan. 7, 1926. Serial No. 79,876. 1 Claim. (Cl. 126—58.)



In a heater, the combination of a base containing a fuel chamber; a core extending above said fuel chamber; means for supporting said core; side walls comprising a stationary portion extending up from said base and movable portions extending up from said stationary portions; a post adapted to pivotally support said movable portions; a chimney pipe extending above said core and provided with a horizontal flange; means for supporting said pipe; said movable portions having lips formed upon their opposing edges adapted to overlap each other when said movable portions are in closed or operative position, the upper ends of said movable portions of said side walls having lips formed thereon adapted to overlap a lip formed upon said flange; the lower ends of said movable portions having lips formed thereon adapted to overlap a lip formed upon the upper edge of said stationary part of said side walls; and means for securing said side walls in closed or operative position.

1,680,006. WINDSHIELD WEATHER STRIP. LLOYD BLACKMORE, Highland Park, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 23, 1924. Serial No. 721,796. 4 Claims. (Cl. 296—93.)

1. A windshield part comprising, in combination, a hollow metal tube member having a channel along one

edge for a pane of glass and having a sharply-bent re-entrant channel of uniform width along its opposite edge, and a rubber strip of uniform thickness through-

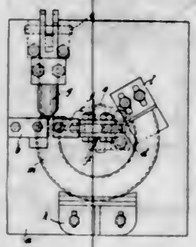


out and of substantially rectangular cross-section held along one edge of the reentrant channel and retained in the channel by reason of its elasticity.

1,680,007. HEAT-RESISTING ALLOY. ALFRED L. BOEGEHOLD, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 6, 1927. Serial No. 197,016. 2 Claims. (Cl. 75—1.)

1. A heat resistant alloy composed of iron 2.40 to 2.80% carbon, 1.75 to 2.25% silicon, 3.75 to 4.25% nickel, and 5.75 to 6.25% aluminum.

1,680,008. APPARATUS FOR STRAIGHTENING THE ENDS OF BENT PIPES. RUDOLF HIERONYMUS BÖHLING, Hamburg, Germany, assignor to the Firm of Rohrbogenwerk Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Filed Oct. 1, 1925, Serial No. 59,896, and in Germany Nov. 28, 1924. 3 Claims. (Cl. 153—79.)

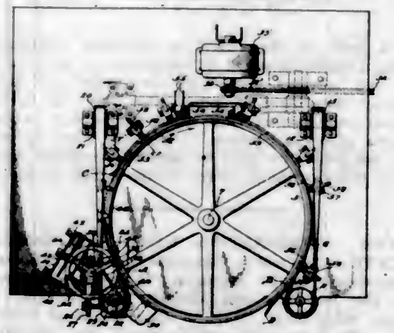


3. Apparatus for reforming the ends of bent pipe comprising cooperative jaws adapted compressively to embrace the pipe end to be reformed, a reciprocating mandrel fitting the normal bore of the pipe end, adapted to be forcibly moved in a path intersecting the zone embraced by said jaws, adjustable supporting members arranged to engage respectively an intermediate part and the opposite end of said pipe, and a base upon which said jaws, mandrel, and supporting members are supported.

1,680,009. PACKAGE-SEALING MACHINE. CHARLES W. BOLGIANO, Washington, D. C. Filed Sept. 20, 1926. Serial No. 136,617. 7 Claims. (Cl. 226—49.)

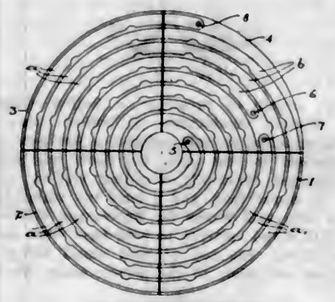
2. A package sealing machine comprising means for applying adhesive to the open flap of a package, means for folding the flap down upon the body of the package subsequent to the application of adhesive and an electrically heated spring pressed band arranged to apply heat and pressure to the folded flap.

7. A package closing and sealing machine comprising a relatively large rotatably mounted wheel, an endless belt arranged to travel in contact with a substantial portion of the periphery of said wheel and forming therewith a package conveyor, the upper edge of said belt being located inwardly of one edge of the wheel to enable the packages to be carried between the belt and wheel with the flap portions of the packages projected upwardly beyond the upper edge of the belt, an adhesive applier arranged in proximity to the initial point of contact between the wheel and the belt so as to apply adhesive to the open flaps of the packages during the early movement thereof between the wheel and the belt, a flap folding plate mounted in proximity to the adhesive applier and



between the latter and the point where the belt leaves the wheel, a curved pressure applying plate extending around the wheel from the flap folding plate to a point in proximity to where the belt leaves the wheel and arranged above the upper edge of the belt so as to directly engage the folded flaps of the packages as the latter leave the folding plate and means for resiliently pressing said plate toward the wheel.

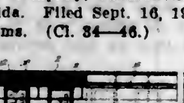
1,680,010. ELECTRIC ELEMENT. EDWARD D. BRAND, London, Ontario, Canada, assignor to The McClary Manufacturing Co., London, Canada. Filed July 14, 1925, Serial No. 43,536, and in Canada May 4, 1925. 1 Claim. (Cl. 219—37.)



An electric heater element comprising a plurality of uniform segments molded separately from refractory material and each having common concentric registering grooves molded therein to receive a heating coil, and a separate molded segment having eccentric grooves molded therein adapted to be interposed between the former segments to connect the alternate concentric grooves thereof to produce a continuous spiral groove, and resistance elements arranged in said grooves and extending from block to block.

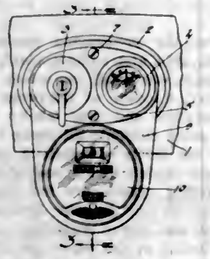
1,680,011. CURTAIN WINDOW. ALPHONSO S. CAMPBELL, West Medford, Mass., assignor to A. S. Campbell Company, East Boston, Mass., a Corporation of Massachusetts. Filed Apr. 14, 1923. Serial No. 632,037. 5 Claims. (Cl. 296—146.)

1. A curtain window installation comprising, in combination, a curtain, a frame member concealed at one side by said curtain, said frame member including inner and outer flanges connected by a bend overlain by said curtain, the curtain fabric being clamped between said flanges, a glass overlying said inner flange and means for



securing said glass in position relative to said frame member and said frame member presenting an upstanding flange abutting the edges of the glass and the inner flange for the purposes set forth.

1,680,012. INSTRUMENT PANEL. ALBERT CHAMPION, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Oct. 7, 1925. Serial No. 61,037. 1 Claim. (Cl. 180—90.)



The combination with an instrument board having therein normally a plurality of apertures adapted to receive instruments, of an adapted plate having apertures intended to register with the apertures normally existing in the instrument board and having also an aperture intended to receive an additional instrument, said adapter plate being placed adjacent to the instrument board and a closing plate normally carrying a plurality of instruments adapted to be placed in the apertures of the instrument board, said closing plate being placed over the adapter plate with the instruments in the registering apertures and securing means for the closing plate.

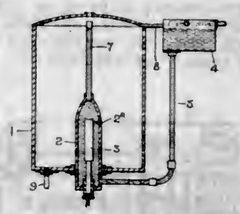
1,680,013. DRY KILN AND THE ART OF KILN DRYING. J. FORREST COBB, Portland, Oreg., assignor to Moore Dry Kiln Company, Jacksonville, Fla., a Corporation of Florida. Filed Sept. 16, 1926. Serial No. 135,891. 10 Claims. (Cl. 34—46.)



1. A dry kiln comprising within it a fan-duct defined, in part, by a continuous substantially vertical wall extending substantially the full length of the kiln in a zigzag direction.

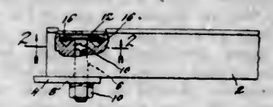
1,680,014. WATER-HEATING SYSTEM. FERRIS FARRAR DALE and JAN WALTER GRACE, Martinborough, New Zealand. Filed Aug. 13, 1925, Serial No. 50,098, and in New Zealand Nov. 8, 1924. 5 Claims. (Cl. 219—38.)

2. A water heating system, comprising, a water supply tank having means for automatically maintaining a constant level therein, a water storage cylinder, and an electrically operated heater located in the bottom of the storage cylinder, all in intercommunication, a hot water delivery pipe leading from the heater to and rising within the storage cylinder to such a point above the water level in the supply tank as will permit the column of water when heated to the predetermined degree for which said system is designed to overflow said delivery pipe into said storage tank, the height of said delivery pipe being such as to have its upper end above the constant level maintained within the supply tank.



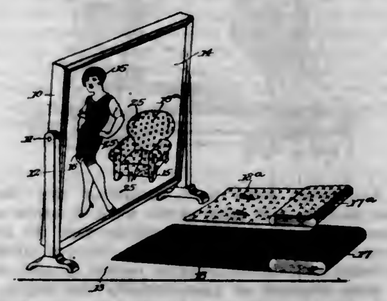
4. A water heating system as set forth in claim 2, comprising, a combined vent and circulation pipe affording direct communication between the storage cylinder and the supply tank and located between the highest point of the hot water delivery pipe and the water level in the supply tank, for enabling water to circulate from the storage cylinder through the supply tank and the heater and back to the storage cylinder when the latter is filled to the level of said circulation pipe.

1,680,015. RUNNINGBOARD BOLT. GEORGE C. DAVIS, Lansing, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 31, 1925. Serial No. 53,565. 1 Claim. (Cl. 151—32.)



A lag bolt, including a solid shank, adapted to be projected through a body, a plate-like integral head on said solid shank, having a flat undersurface, adapted to abut said body, said head having a single radial incision extending from the periphery thereof into proximity with the solid shank, and a dependent ear adapted to bite into said body as the plate-like head is forced into abutment therewith, said ear consisting of the material of the plate-like head to one side of the radial incision which is bent downwardly on a divergent line into substantially the direction of the longitudinal axis of the solid shank, and being of triangular shape, the apex thereof comprising the point of intersection of the peripheral edge of the plate-like head with the edge at the radial incision.

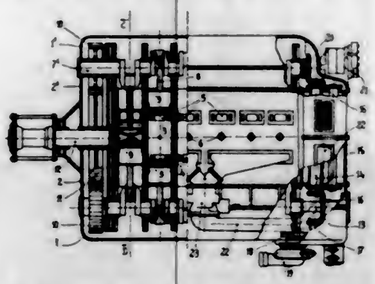
1,680,016. DISPLAY DEVICE. JAMES SEARLE DAWLEY, New York, N. Y. Filed Nov. 5, 1925. Serial No. 67,088. 9 Claims. (Cl. 35—17.)



1. A demonstrating device comprising a mirror having picture portions partially covering the same, the uncovered portions of the mirror being associated with the

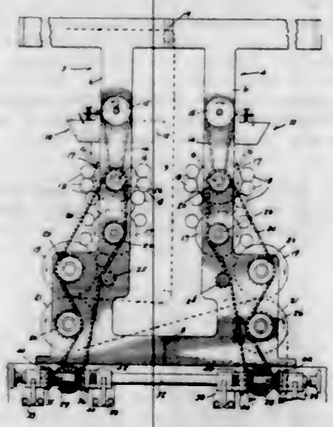
picture portions, whereby when material is placed in reflecting relation to said uncovered portions the figure becomes completed by the reflection of material.

1,680,017. TWO-STROKE ENGINE OF THE OPPOSED-PISTON TYPE. GUIDO FORNACA, Turin, Italy. Filed Nov. 10, 1926, Serial No. 147,516, and in Italy Nov. 17, 1925. 1 Claim. (Cl. 123—51.)



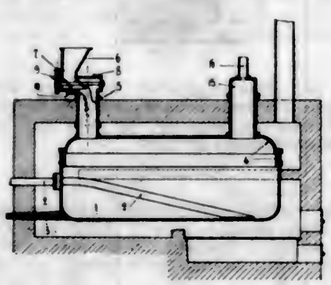
In an internal combustion engine with oppositely arranged pistons, the combination of two end casings forming chambers, a series of cylinders containing the pistons arranged parallel to and interposed between the end casings, crank casings at both ends of the cylinders extending over and closing both chambers, crank shafts arranged in the crank casings and extending into both chambers, compressor rotors for generating the scavenging and forced feed air disposed in one of the end chambers so that their axes lie parallel to those of the cylinders, bevel gears operatively connecting both crank shafts with one of said rotors, a driven shaft journaled in the other chamber parallel to the crank shafts, and reducing gears in the last named chamber operatively connecting the driven and crank shafts.

1,680,018. PRINTING-PRESS UNIT. WALLACE H. GRANGER, San Francisco, Calif. Filed Apr. 10, 1926. Serial No. 101,192. 4 Claims. (Cl. 101—220.)



1. A printing press unit comprising two identical frames abutting each other at the top and bottom of the frames for providing a passageway between the frames, an impression cylinder and a plate cylinder carried by each frame and an ink fountain carried by each frame, and being disposed at approximately the height of a person when standing, said cylinders being disposed adjacent to the bottom of said frames and on the outer sides thereof.

1,680,019. APPARATUS FOR THE FORMATION OF NITRIC ACID OR HYDROCHLORIC ACID. GIUSEPPE GUADAGNI, Turin, Italy. Filed Jan. 13, 1925, Serial No. 2,201, and in Germany Dec. 12, 1924. 1 Claim. (Cl. 23—277.)



Apparatus for the continuous production of hydrochloric or nitric acid and sodium bisulphate, comprising an oven, a single elongated container mounted wholly within the latter, a cover of fire-proof material tightly closing the container and also wholly within the oven whereby burnt gases circulate all about the container and ensure within the latter a constant and uniform temperature, a single conduit at one end of the cover through which the re-acting agents are fed into the container, a delivery tower for the gaseous discharge at the other end, said conduit and tower projecting outwardly through the oven roof, means at the outer end of said conduit for feeding the re-acting agents in regulated quantities, and a tube for the continuous discharge of the bisulphate, having its inlet end dipping into the liquid mass at a point near the bottom of the container substantially below the point of gaseous discharge, and remote from the inlet for the reacting agents whereby a complete reaction of said agents is insured, the other end of said tube passing through the container at the normal liquid product level therein to maintain said level constant by continuous discharge.

1,680,020. PRODUCTION OF CARBOHYDRATE COMPOUNDS. WILLIAM HARRISON, Manchester, England. Filed Oct. 4, 1926, Serial No. 139,559, and in Great Britain Oct. 24, 1925. 14 Claims. (Cl. 260—100.)

1. Process for the oxidation of carbohydrate xanthogenates consisting in treating a dilute solution of viscose containing not more than 5% of cellulose with an aqueous solution of nitrous acid in the presence of a weak acid other than an acid derived from an oxide of nitrogen.

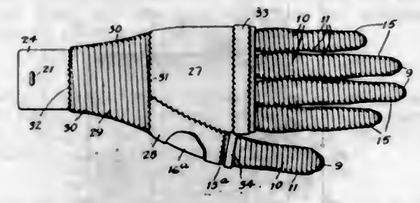
1,680,021. MANUFACTURE OF WOOL-LIKE CELLULOSIC MATERIAL. WILLIAM HARRISON, Manchester, England. Filed Jan. 26, 1927, Serial No. 163,851, and in Great Britain Feb. 12, 1926. 5 Claims. (Cl. 8—20.)

1. Process for the production of wool-like cellulosic material consisting in subjecting the unstable insoluble xanthate, formed by the combined action of a caustic alkali or alkaline sulphide or any mixture of these and carbon disulphide on cellulosic material, to the action of a mild oxidizing agent which does not completely split off the carbon disulphide previously combined with the cellulose and which converts the unstable insoluble xanthate into a stable compound.

1,680,022. PLASTIC ARTIFICIAL HAND. HARRIETTE E. HODGSON, New York, N. Y. Filed Oct. 29, 1923. Serial No. 671,489. 31 Claims. (Cl. 3—12.)

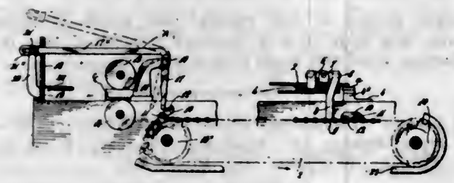
1. An artificial hand of the kind described, comprising a foundation block extending in the metacarpal region,

and strong and flexible finger members comprising tenacious, pliant cores and strong and compressible fabric



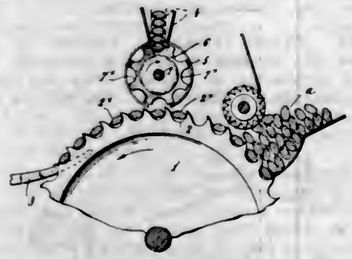
wrappings firmly combined, said finger members having metacarpal extensions applied along the block and bound thereto in an artificial metacarpus.

1,680,023. THROW-OUT MECHANISM FOR CIGARETTE-PACKING MACHINES. EWALD KOERNER, Dresden, Germany, assignor to United Cigarette Machine Co. Inc., Lynchburg, Va., a Corporation of Virginia. Filed Apr. 14, 1927. Serial No. 183,788. 7 Claims. (Cl. 226—5.)



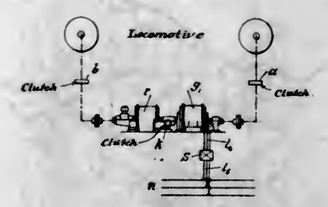
1. In throw-out mechanism for cigarette packing machines, means for receiving a train of cigarettes, throw-out mechanism for incompletely filled packages of cigarettes, a trigger lying in the path of the train of cigarettes, a connection between the trigger and the throw-out mechanism, and means whereby less than a predetermined number of cigarettes fed to the receiving means will cause said trigger to assume a position whereby it may be swung to render the throw-out mechanism active.

1,680,024. MACHINE FOR PACKING CIGARETTES AND LIKE ARTICLES. EWALD KOERNER, Dresden, Germany, assignor to United Cigarette Machine Co., Inc., Lynchburg, Va., a Corporation of Virginia. Filed Apr. 14, 1927. Serial No. 183,789. 6 Claims. (Cl. 226—5.)



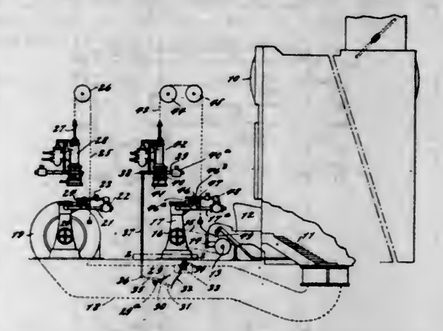
4. In cigarette packing machines, a primary feed drum provided with a plurality of grooves each adapted to receive a cigarette, a secondary feed drum provided with a plurality of grooves each adapted to receive a cigarette, and means for imparting step by step movements to said secondary feed drum comprising a member adapted to be actuated by the walls of a groove of the primary feed drum in its movement, said member being held inactive so long as the grooves of the primary feed drum are without gaps in the train of cigarettes fed thereby.

1,680,025. TURBINE LOCOMOTIVE. FRANZ LÖSEL, Brunn, Czechoslovakia. Filed Aug. 17, 1923, Serial No. 657,843, and in Germany Dec. 27, 1922. 3 Claims. (Cl. 105—36.)



1. In a turbo-electric locomotive, a turbine, a motor-generator adapted to be mechanically coupled with the locomotive, electrical connections leading from said motor-generator to a net work, a switch for controlling said connections and disconnectible means mechanically coupling the turbine to said motor-generator and the locomotive.

1,680,026. METHOD AND APPARATUS FOR CONTROLLING FURNACES. EMBURY MCLEAN, Brooklyn, N. Y., assignor to The Engineer Company, New York, N. Y., a Corporation of New York. Continuation of application Serial No. 655,572, filed Aug. 4, 1923. This application filed Apr. 14, 1924. Serial No. 706,278. 17 Claims. (Cl. 236—15.)

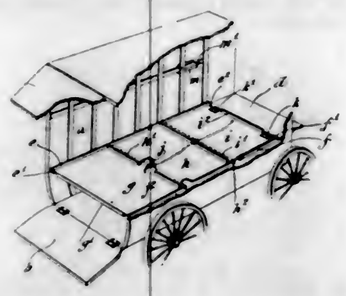


9. In combination, a furnace, means for supplying fuel thereto, means for supplying air thereto, a pivoted member operable in accordance with the flow of air to the furnace, means for yieldingly resisting the movement of said member, means operable by the movement of said member for controlling the rate of feed of fuel to the furnace during the normal operation thereof, and means for varying the feed of fuel to the furnace in accordance with variations in the temperature of the air supplied to the furnace.

1,680,027. DELIVERY WAGON. CHARLES W. PEELLE, New York, N. Y., assignor to The Peelle Company, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 12, 1924. Serial No. 755,444. 10 Claims. (Cl. 296—21.)

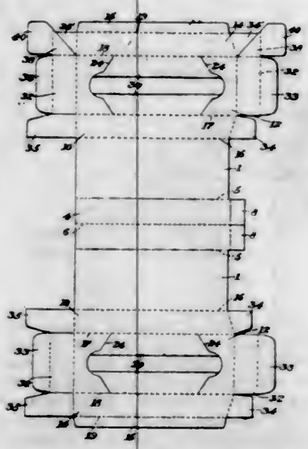
1. A delivery wagon embodying therein a body having a closed bottom, sides and top, runways extending horizontally from adjacent the front to adjacent the rear of said body, above the bottom and within and adjacent opposite sides thereof, means for supporting a load above

the bottom of the wagon body comprising a plurality of flat plates slidable upon said runways, each plate overlapping and resting upon the adjacent plate toward the rear of the wagon body, a flexible member attached to the front of the wagon body and engaging said plates respectively, whereby movement of the rearward of said



plates rearwardly of the wagon body will cause movement of the adjacent plate, and a flat plate nonslidably supported within the wagon body, said flexible member preventing removal of said slidable plates and permitting them to be telescoped in relation to each other and to said non-slidable plate.

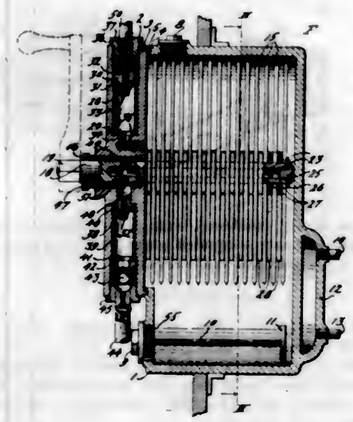
1,680,028. DISPLAY CONTAINER. JOHN J. RYAN and JOHN GAFFNEY, New Haven, Conn., assignors to National Folding Box Company, New Haven, Conn., a Corporation of New Jersey. Filed Oct. 14, 1925. Serial No. 62,340. 19 Claims. (Cl. 206—44.)



1. A display container comprising two compartments and a joining member therebetween having portions bent back upon themselves adapted to support the container in display position and foldable into flat engagement with the container, said portions being respectively connected to said compartments.

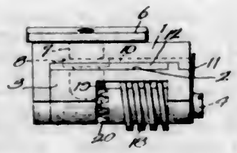
1,680,029. FILTER. ERNEST J. SWEETLAND, Hazleton, Pa. Filed Jan. 10, 1922. Serial No. 528,355. 6 Claims. (Cl. 210—182.)

1. A filter comprising a casing, a filter unit disposed in the upper part of said casing, said casing being provided with a settling chamber below said units for receiving the heavier impurities, a drain plug provided in the



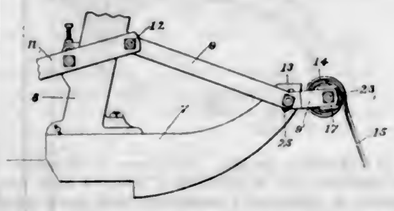
lower portion of said chamber and means connected with said drain plug to facilitate removal of said impurities when said drain plug is removed.

1,680,030. CLAMPING DEVICE. WALLACE S. WARNOCK, Chicago, Ill. Filed Aug. 10, 1927. Serial No. 212,081. 16 Claims. (Cl. 101—388.)



1. A clamp structure including the body thereof; a jaw upon said body and having a stem journaled within the body; a cam upon said stem; an adjusting plate engageable with the cam; and a retaining plate with which the adjusting plate is in wedging engagement, said retaining plate being constrained to move transversely of the clamp body upon movement of the adjusting plate by the cam and projecting laterally beyond the clamp body in one position to serve to hold the clamp in place.

1,680,031. TRASH CLEANER. CHARLES H. WHITE, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Aug. 4, 1927. Serial No. 210,508. 12 Claims. (Cl. 97—194.)



1. In an implement of the class described, the combination of a furrow opener, a brace bar secured to the forward end of said furrow opener, and a trash

cleaner mounted on said brace bar in front of said furrow opener, said trash cleaner comprising a coiled spring having one end connected with said brace bar and having its other end extending down into soil engaging position in advance of the furrow opener.

1,680,032. METAL STEP. HARRY T. ANDERSON, Butler, Pa., assignor to T-Z Railway Equipment Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 25, 1927. Serial No. 186,253. 3 Claims. (Cl. 20—79.)



1. As an article of manufacture, a normally horizontal step having a tread surface provided with a multiplicity of pairs of short adjacent slots, the step material between each pair of slots being upturned, the material on the opposite sides of the slots being downturned to form drainage openings as described said upturned portion being shaped to provide a transversely extending, curvilinear depression.

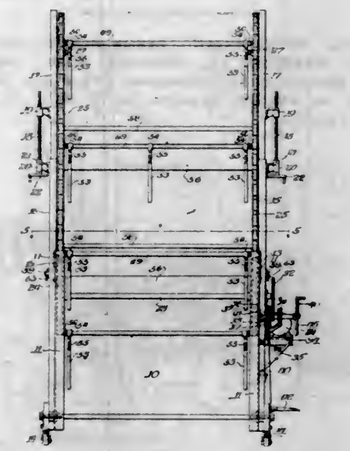
1,680,033. FLEXIBLE BUTTON. GEORGE W. BLANK, Philadelphia, Pa. Filed Oct. 7, 1927. Serial No. 224,594. 6 Claims. (Cl. 24—108.)



1. A button comprising a head of flexible material, a locking spring within said head, and a stud projecting into the button head for engagement with the locking spring and including a base, a shank and a head, the distance between the inner or under face of the button head and the stud engaging portion of the locking spring being greater than the distance between the stud base and its head whereby the button head will be slightly compressed when the parts are in co-operative relation.

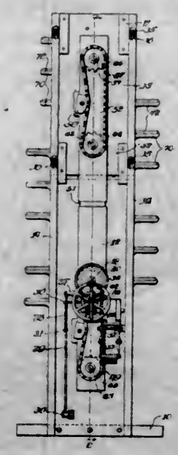
1,680,034. DISPLAY APPARATUS. BENJAMIN J. BUCKINGHAM, Chicago, Ill., assignor to Milton M. Mayer, Chicago, Ill. Filed Feb. 28, 1924. Serial No. 695,648. 6 Claims. (Cl. 211—121.)

1. In a conveyor device of the class described comprising a pair of lower sprocket wheels, a pair of upper sprocket wheels, a pair of sprocket chains trained around said wheels, means for driving said chains on said wheels, said chains being arranged to move in spaced substantially parallel-vertical planes, and means disposed in the space between said chains and carried thereby for suspending articles therefrom, a frame for supporting said wheels and the associated chains in operative relationship, said frame comprising a rectangular frame unit extending to a portion of the height of said conveyor device and having the lower sprocket wheels mounted in oppositely disposed side walls thereof, a pair of standards upwardly extending from said side walls, each standard consisting of nested channel members, and means for supporting the upper wheels from the upper ends of said standards, said nested channel members



being relatively slidable to permit variations of the spacing between the upper chain wheels and the lower chain wheels.

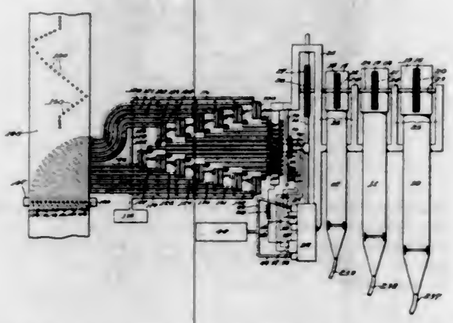
1,680,035. DISPLAY APPARATUS. BENJAMIN J. BUCKINGHAM, Chicago, Ill., assignor to Milton M. Mayer, Chicago, Ill. Filed Feb. 28, 1924. Serial No. 695,649. 11 Claims. (Cl. 211—121.)



1. An apparatus of the class described, comprising an endless chain conveyor for the articles to be displayed, channel guides in which the stretches of the conveyor chains are adapted to travel, means for driving the conveyor, carries for the articles, transfer means independent of the conveyor coacting with said carriers to positively engage and propel the same in their transfer from one stretch of the conveyor to the other, and means

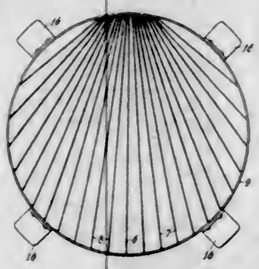
acting independently of the guide means for deflecting said carriers from said guides to said transfer means, whereby the latter serve to preserve the vertical position of the carriers in their transfer from one stretch of the conveyor to the other.

1,680,036. PIPE ORGAN. LESLIE BUSWELL and JOHN HAYS HAMMOND, Jr., Gloucester, Mass.; said Buswell assignor to said Hammond. Filed Apr. 19, 1921, Serial No. 462,579. Renewed Dec. 2, 1927. 15 Claims. (Cl. 84—88.)



7. In a musical instrument, a plurality of organ pipes, means for simultaneously varying the speaking lengths of the respective pipes to produce a glissando effect, and means including an electrically operated mechanism for controlling the glissando effect in a predetermined manner.

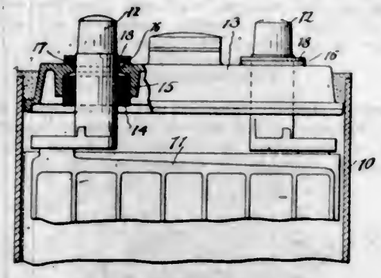
1,680,037. ANTIGLARE ATTACHMENT FOR HEADLIGHTS. AUGUSTUS R. DE TARTAS, Long Island City, N. Y., assignor to Emery C. Weller and E. Woodward Duke, New York, N. Y., and John B. Cornell, Orange, N. J. Filed Dec. 13, 1926. Serial No. 154,348. 9 Claims. (Cl. 240—48.4.)



9. An anti-glare device for a beam of light emitted from a head light comprising a plurality of blades in the form of irregular quadrilaterals, their width tapering from a point toward the two ends, the longer tapering portions converging at one side of the light beam axis, said blades also being disposed with their straight edges in a plane substantially at right angles to the light beam.

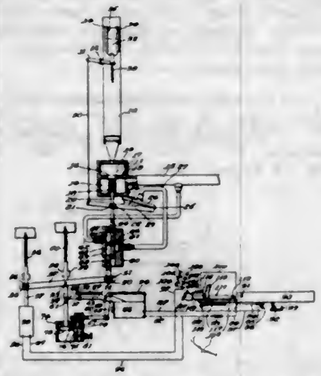
1,680,038. STORAGE BATTERY. CARL J. DUNZWEILER, Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a Corporation of West Virginia. Filed Nov. 20, 1924. Serial No. 750,981. 1 Claim. (Cl. 136—163.)

A storage battery comprising a container having a boss with a terminal post opening therein, a terminal post projecting through said opening and adapted to be surrounded with corrosion preventing substance adjacent said



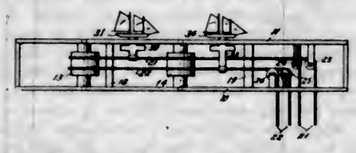
boss, and a cover for the boss and opening shrunk onto the post to form a tight seal, whereby creepage of acid along the post is prevented.

1,680,039. PIPE ORGAN. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Feb. 16, 1921. Serial No. 445,499. Renewed Dec. 2, 1927. 16 Claims. (Cl. 84—338.)



11. In an organ, a key board for said organ comprising a pivoted lever, a second lever loosely mounted on a movable portion of the first named lever, a body having a relatively large mass secured to a free end of said second named lever, said second named lever and mass being movable independently of said first named lever, the extent of such movement varying according to the speed of movement of the first named lever, means for restoring the first named lever to normal, means for locking the second named lever in its displaced position relative to the first named lever arranged to be automatically released upon return of the first named lever to normal, and means controlled by the momentum of said mass for varying the intensity of the sound produced.

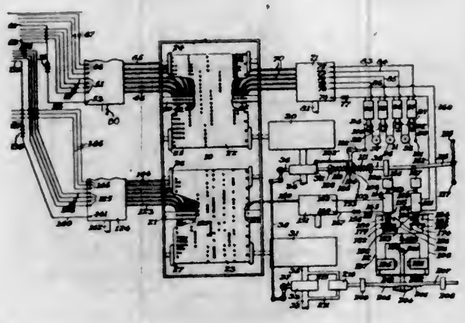
1,680,040. BOAT-RACE INDICATOR. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Sept. 28, 1922. Serial No. 591,194. 5 Claims. (Cl. 116—120.)



2. An indicator for showing status of a race comprising a plurality of models each representing one of the contestants, a corresponding plurality of guiding means

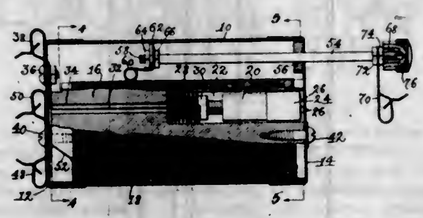
for said models respectively, each of said guiding means having a configuration corresponding to that of the race course, a corresponding plurality of movable control dials for said models respectively, each having a configuration different from that of the respective guiding means but calibrated to show distances thereon, a corresponding plurality of drums operatively interconnected with said dials respectively, and a plurality of endless belts each operatively interconnecting one of said models with its respective drum and operable upon movement of said dial for positively actuating the respective model.

1,680,041. AUTOMATIC CONTROL OF ORGAN MUSIC. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Apr. 19, 1924. Serial No. 707,551. 11 Claims. (Cl. 84—119.)



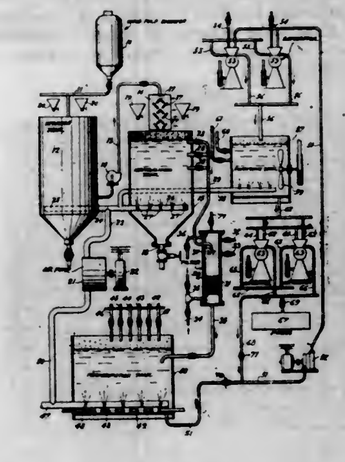
11. In a musical instrument, a plurality of independently movable music sheets each provided with note perforations, a plurality of groups of actions for controlling portions of the musical instrument in accordance with a musical composition, each of said groups being controlled by the perforations of one of said note sheets respectively, means for driving each of said music sheets, and means associated with one of said driving means for accelerating the respective music sheet independently of the remainder.

1,680,042. RADIO RECEIVING APPARATUS. ALBERT M. HARDING, Boston, Mass., assignor to Flash Radio Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 22, 1926. Serial No. 143,488. 1 Claim. (Cl. 250—14.)



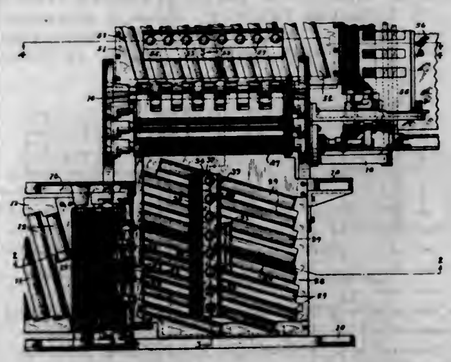
In a radio receiving set, in combination, a casing provided with end members, a tuning coil within said casing having a core of insulating material provided with a recess forming a housing for a fixed crystal detector and a choke coil, said fixed crystal detector and choke coil located in said housing to be moved with the tuning coil as a unit and with the choke coil connected with the output end of said crystal detector, and a slider provided with a contact member cooperating with said tuning coil.

1,680,043. PREPARATION OF YEAST. GUSTAF OLOF WOLFGANG HEIJKENSKJÖLD, Stockholm, Sweden, assignor to Aktiebolaget Bästa, Stockholm, Sweden, a Corporation of Sweden. Filed Feb. 6, 1926, Serial No. 86,530, and in Sweden Mar. 28, 1925. 40 Claims. (Cl. 195—20.)



12. The method of cultivating yeast and utilizing acid sulphite waste liquor which comprises reducing the acidity of the sulphite waste liquor at least to the neutral point, filtering the treated liquor, planting propagative seed yeast in a wort of high sugar concentration, adding the treated sulphite liquor and such additional yeast nutriments as may be desired to the wort, aerating the wort, and removing the liquor from the yeast.

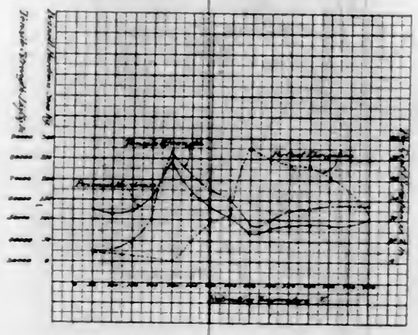
1,680,044. PAPER-HANDLING MACHINE. REUBEN HITCHCOCK, Cleveland, Ohio, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 2, 1926. Serial No. 152,184. 21 Claims. (Cl. 271—52.)



1. In paper handling machines, the combination of a feed table comprising sheet moving means, means for feeding a plurality of sheets simultaneously onto said table transversely of the direction of movement given to the sheets by said sheet moving means, a stop for interrupting such transverse movement of the sheets, and rotatable members arranged above said sheet moving

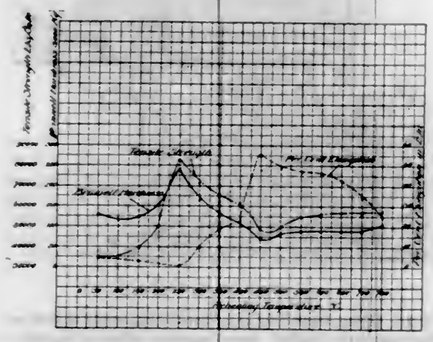
means adjacent said stop to engage the leading sheet on said table to give to that sheet a rapid acceleration longitudinally of said table for the purpose of separating said leading sheet from the sheet which follows it.

1,680,045. METHOD OF TREATING COPPER ALLOYS AND IMPROVED PRODUCT. VICTOR O. HOMERBERG, Belmont, Mass., and DEXTER N. SHAW, Philadelphia, Pa. Filed Jan. 28, 1926. Serial No. 84,386. 21 Claims. (Cl. 148—11.)



1. The process of treating those copper alloys whose composition is such that the particular alloy being treated falls within that portion of the temperature-composition diagram of its system which resembles the portion of the copper-zinc temperature-composition diagram in which 60-40 brass is found, which comprises heating the alloy above the critical temperature to obtain substantially a single solid solution; quenching to obtain this substantially single solid solution at room temperature; and thereafter selecting a predetermined reheating temperature corresponding to the physical properties desired, heating at said chosen temperature and subsequently cooling to obtain substantially the structure corresponding to that of the reheating temperature a room temperature.

1,680,046. METHOD OF TREATING COPPER ALLOYS AND IMPROVED PRODUCT. VICTOR O. HOMERBERG, Cambridge, Mass., and DEXTER N. SHAW, Akron, Ohio. Filed Jan. 30, 1924. Serial No. 689,504. 18 Claims. (Cl. 148—11.)



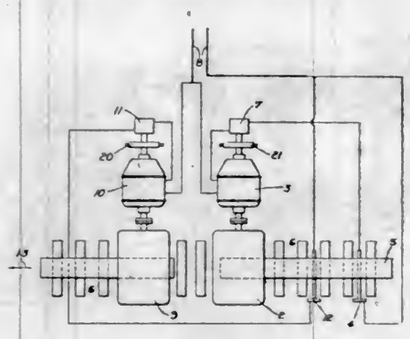
17. Muntz metal characterized by a tensile strength of over 75,000 pounds per square inch and a Brinell hardness of over 200 and having these properties by reason of the presence therein of very finely divided crystals uniformly distributed.

1,680,047. STABILIZATION OF OILS, FATS, AND WAXES. JOHN Y. HUBER, Jr., Ardmore, Pa. Filed Feb. 4, 1924. Serial No. 690,667. 3 Claims. (Cl. 99—17.)

2. The method of stabilizing food products containing fatty material, which consists in adding thereto furfural in amounts insufficient to affect the flavor of said products.

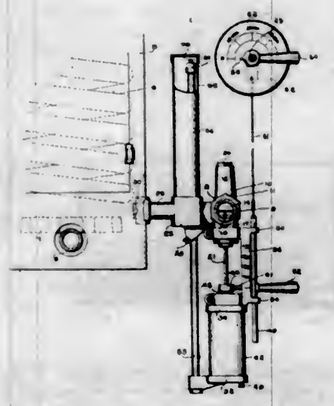
3. As a new article of manufacture, a food product containing fatty material and a stabilizer in the form of furfural in amount insufficient to affect the flavor of said product.

1,680,048. APPARATUS AND METHOD OF SHEARING. LORENZ IVERSEN, Pittsburgh, Pa., assignor to Mesta Machine Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 18, 1927. Serial No. 176,439. 12 Claims. (Cl. 164—17.)



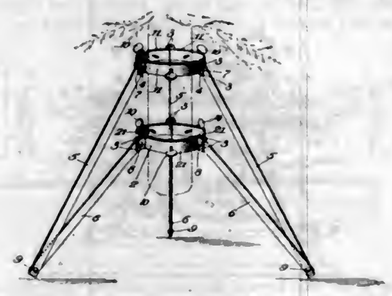
1. Apparatus for shearing a moving strip of material comprising means for cutting the strip into predetermined lengths, and means for cropping the trailing end of the strip.

1,680,049. HEATER APPLIANCE. FRANK A. GAUGER and ROY W. JOHNSON, Milwaukee, Wis., assignors, by mesne assignments, to Time-O-Stat Corporation, Milwaukee, Wis. Filed Jan. 16, 1922, Serial No. 529,732. Renewed Oct. 27, 1926. 18 Claims. (Cl. 158—99.) 99.)



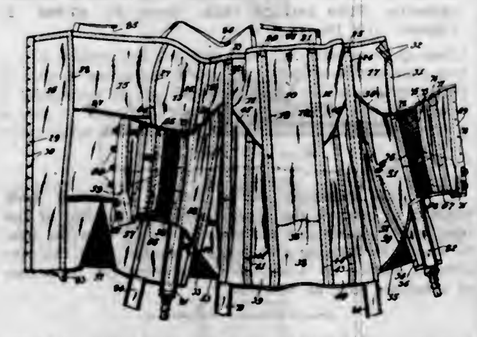
1. In a device of the class described, a fuel supply connectable with a burner, means for connecting the fuel supply with the burner, and means for flashing an igniting jet of flame toward the burner, said first named means automatically disconnecting the fuel supply from the burner after a predetermined period of operation.

1,680,050. FOLDING TREE HOLDER. ALBERT KEPPENS, Berwyn, Ill. Filed Nov. 9, 1926. Serial No. 147,213. 2 Claims. (Cl. 248—38.)



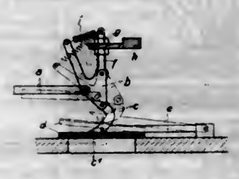
1. A tree holder of the class described comprising in combination two collars in vertical alinement, each composed of a plurality of arcuate sections, adapted to be fastened to the trunk of the tree having ears formed at each end thereof, the ears of one of said sections having slots formed therein to render it readily removable; and a plurality of legs, equal in number to the number of sections composing the collar, each leg composed of two bars pivotally connected to the two collars and to each other, adapted to be spread out to form a firm base for the tree, and to fold up when not in use, substantially as described.

1,680,051. APPAREL GARMENT. WALDEMAR KOPS, New York, N. Y., assignor to Kops Bros., Inc., New York, N. Y., a Corporation of New York. Filed June 25, 1927. Serial No. 201,324. 2 Claims. (Cl. 2—27.)



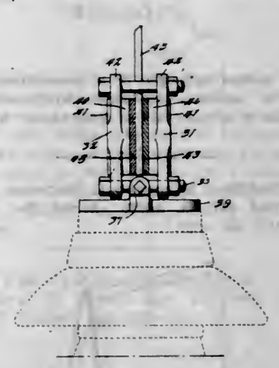
1. In an apparel garment, a body member adapted to surround the body of the wearer from a point above the busts to a point below the buttocks, the said body member including a back section, an abdominal support comprising sections of inelastic and elastic material adapted to extend across the abdomen of the wearer, and side sections of inelastic material connected at their forward edges to the distant edges of the abdominal support and at their rearward edges to the edges of the back section of the body member, the lower edges of the side sections extending downwardly from the lower edge portions of the abdominal support to substantially the lower edge of the lower side portions of the back section of the body member whereby the tension exerted by the elastic sections of the abdominal support is transmitted through the lower portion of the said side sections to the lower portion of the back section of the body member to cause the same to conform to and retain the buttocks of the wearer.

1,680,052. ACCORDION. ARTUR LANKA, Gera, Germany. Filed May 12, 1927. Serial No. 190,821. 4 Claims. (Cl. 84—376.)



4. Valve operating mechanism for key-operated accordions and similar musical instruments including bass and second valves, valve-plates for said valves, and systems of levers and plates for operating the same upon the operation and release of said keys, a member engaging the bass valve-plate and operatively connected to the second valve-plate for operating both the bass and the second valve simultaneously.

1,680,053. CLAMP FOR ELECTRICAL CONDUCTORS. JOEL S. LAWSON, St. James, N. Y., assignor to Memco Engineering & Manufacturing Company, Inc., Long Island City, N. Y., a Corporation of New York. Filed Jan. 26, 1927. Serial No. 163,766. 2 Claims. (Cl. 173—251.)

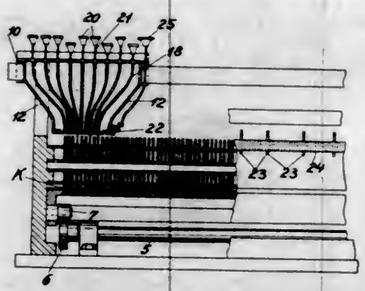


2. A bus bar clamp for bus bars of rectangular cross-section, comprising a pair of clamping plates, each plate being reversible and having a thick boss on one side thereof and a thin boss on the other side thereof, and lugs extending from the plates, said lugs having apertures for the reception of clamping bolts.

1,680,054. PUNCHING MACHINE FOR STATISTICAL CARDS. MARTIN LEBEIS, Berlin-Friedenau, Germany, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed June 30, 1925, Serial No. 40,624, and in Germany July 3, 1924. 4 Claims. (Cl. 164—112.)

1. In a punching machine for statistical cards, a punching device having a plurality of rows of punches, corresponding rows of punch locking devices, a movable setting carriage having a keyboard provided with several rows of keys and provided with corresponding rows of key operated devices adapted to set in operative

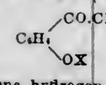
position punch locking devices above a plurality of punch rows which form a zone or portion of the total number of punch rows, a card carrier movable relatively to the locked punches, tabulating means including a tabulating key for moving said setting carriage step by



step from zone to zone of the rows of punches, and means cooperating with the inner ends of said key operated devices to lock the keys in depressed position, said key locking devices being releasable by depression of the tabulating key.

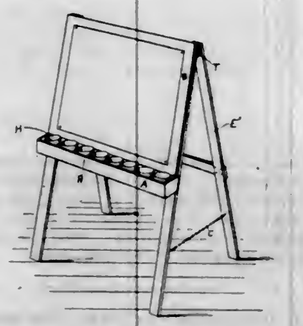
1,680,055. MONOOXY-ω-AMINOACETOPHENONE DERIVATIVES. HELMUT LEGERLOTZ, Berlin, Germany. Filed Mar. 23, 1927, Serial No. 177,829, and in Austria Mar. 22, 1926. 6 Claims. (Cl. 260—128.5.)

1. The hereinbefore described monohydroxy-ω-aminoacetophenone derivatives carrying substituents in the amino group and having the general formula



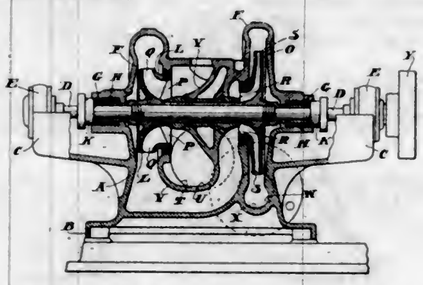
in which R' means hydrogen or a monovalent hydrocarbon radical, R'' means a monovalent hydrocarbon radical and X means hydrogen or a monovalent hydrocarbon radical.

1,680,056. EASEL. MARGARET E. MATHIAS, Montclair, N. J. Filed Jan. 8, 1926. Serial No. 80,071. 2 Claims. (Cl. 45—129.)



1. An easel comprising a board and a removable liquid tight trough below and in front of the face of said board to carry material holders in front of the board, said trough having a portion extending behind the face of said board to catch drippings from the board, in combination with a removable rack to retain material holders spaced apart in said trough and fitting the trough loosely to permit drippings to fall into the trough, said rack comprising a longitudinal perforated member and integral legs.

1,680,057. CENTRIFUGAL PUMP. JAMES K. MCINTYRE, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 23, 1926. Serial No. 137,297. 3 Claims. (Cl. 103—108.)

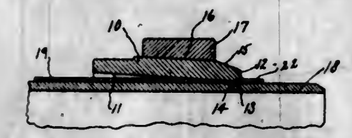


1. A two stage centrifugal pump comprising a casing, a pair of impellers having inlets opposed to each other, the first stage impeller inlets being larger than the second stage impeller inlets and the first stage impeller being of less diameter than the second stage impeller.

1,680,058. ADDITION MATERIAL FOR FERROUS METALS. PAUL D. MERICA, New York, N. Y., and THOMAS H. WICKENDEN, Roselle, N. J., assignors to The International Nickel Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 28, 1925. Serial No. 26,521. 18 Claims. (Cl. 75—45.)

1. As an addition material for ferrous substances, nickel and another alloying element adapted to improve the properties of the ferrous substance, said material having its melting point artificially lowered by the addition thereto of another substance.

1,680,059. BEVELING AND SEALING CLAMP. THOMAS MIDGLEY, Hampden, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed July 24, 1925. Serial No. 45,899. 2 Claims. (Cl. 18—43.)

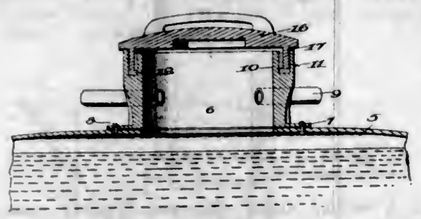


1. A tube clamping device having a skiving area adapted to produce the taper desired on the end of the tube, and a constricted portion adapted to trim the tube to length, the skiving area being separated from the constricted portion by a shoulder to prevent the formation of a feather edge on the tube.

1,680,060. MANHOLE COVER FOR OIL TANKS. ADOLPH EDWARD NELSON, Chelsea, Okla. Filed Mar. 15, 1926. Serial No. 94,886. 1 Claim. (Cl. 220—45.)

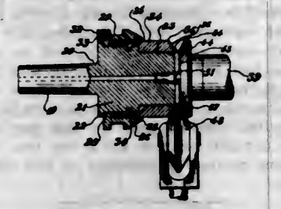
In an oil storage tank having a top opening, a manhole cover comprising a thick walled upstanding circular neck having means whereby the same may be rigidly attached to the top of an oil tank to surround said opening, said neck being provided with means intermediate its ends whereby the same may be connected to the pipes extending from a plurality of producing wells, the upper end portion of the neck being of uniform thickness and being formed with an annular channel for the reception of oil, the thick uniform cross section of said neck providing said channel with thick inner and outer walls, said inner wall being substantially thicker than the outer wall and terminating below the same, the thickness of the inner wall being the same throughout, a lid

having an integral circumferential depending skirt inwardly of its outer edge, said skirt being received in said channel and flatly engaging the inner surface of the outer wall of the channel with its lower edge in spaced relationship to the bottom and inner wall of the channel to provide a liquid seal between the lid and the neck, said skirt terminating short of the bottom of said channel and hav-



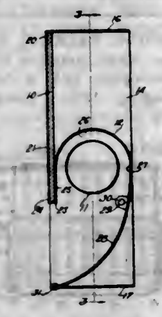
ing its marginal portion extended beyond the outer side of the neck to provide a shield and being adapted to be supported upon and flatly engaged with the upper edge of said outer wall with the under surface of the lid spaced from the inner wall of said channel, the lower portion of said neck having spaced recesses providing heat disseminating projections whereby heat will be carried off, and said pipes extending into said bosses.

1,680,061. SPUN METAL MANUFACTURE AND PRODUCT. REYNOLD G. NELSON, Canton, Ohio, assignor to The Spun Steel Corporation, Canton, Ohio, a Corporation of Ohio. Filed Sept. 16, 1926. Serial No. 135,852. 5 Claims. (Cl. 29—159.)



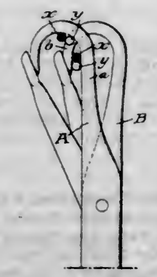
1. A pulley and the like made of sheet or strip metal of sixteen gauge or thicker including a wheel disk, and a peripheral flange integral with the wheel disk and having a relatively narrow and relatively deep groove roller spun therein.

1,680,062. COMBINATION MIRROR AND ILLUMINATING DEVICE. WILLIAM J. NEWTON, Bridgeport, Conn., assignor to Metropolitan Electric Manufacturing Company, Long Island City, N. Y. Filed Feb. 24, 1925. Serial No. 11,299. 2 Claims. (Cl. 240—4.)



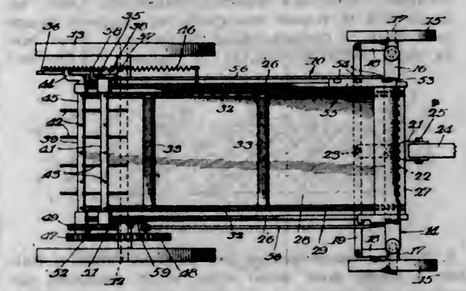
1. An article of manufacture, comprising a mirror, a lamp, and a reflector, and a frame carrying said mirror, lamp and reflector, said frame including flanges at its front engaging the marginal portions of the front face of the mirror at the top and sides of the mirror, said reflector being at the rear of the lower portion of said mirror and including a pocket in which the lower edge of the mirror rests, and said reflector also including a flat, vertical portion engaging a substantial part of the lower portion of the rear face of the mirror to fix, with the aid of the flanges of the frame and the pocket of the reflector, the position of the mirror in the frame, the flat, vertical portion of the reflector merging in a part-cylinder thereof which extends about a part of said lamp, and said part-cylinder of said reflector merging in a flat, parabolic surface extending downwardly and forwardly in the frame and terminating at a location below and spaced from the lower edge of said mirror.

1,680,063. METHOD OF AND MACHINE FOR MAKING PLATED FABRICS. ALBERT E. PAGE, Brooklyn, N. Y., assignor to Scott & Williams, Inc., New York, N. Y., a Corporation of Massachusetts. Filed July 12, 1924. Serial No. 725,625. 6 Claims. (Cl. 66—40.)



1. The method of producing longitudinal stripes in plated fabric, which comprises feeding yarns to the needles from unchanged positions, the needles by the positions of their hooks differentiated laterally in planes normal to the course of needles causing the needle wales of the back yarn to be drawn to the front face of the fabric when the needles are drawn down, while knitting both yarns together at those needles as well as at other needles.

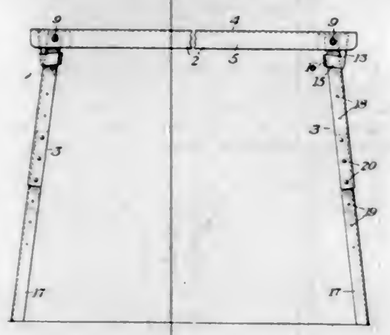
1,680,064. FERTILIZER DISTRIBUTOR. WILLIAM J. POPE, Plano, Ill. Filed Mar. 10, 1926. Serial No. 93,594. 3 Claims. (Cl. 275—5.)



1. In combination, a vehicle, manure spreader mechanism mounted on said vehicle, said mechanism comprising a rotating distributor having a shaft extending across said vehicle, a conveyor, a conveyor shaft journaled in the rear portion of said vehicle for operating said con-

veyor, means including a single crank on said first named shaft and a lever intermittently oscillated by said crank for advancing said conveyor step by step, and means extending to the front of the vehicle for adjustably limiting the return of said lever for regulating the rate of movement of said conveyor.

1,680,065. FOLDABLE SUPPORT. ROBERT V. PROCTOR, Youngstown, Ohio, assignor to The Commercial Shearing & Stamping Company, Youngstown, Ohio, a Corporation of Ohio. Filed Feb. 10, 1927. Serial No. 167,166. 3 Claims. (Cl. 304—6.)

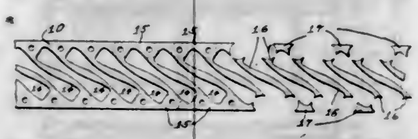


1. A foldable support comprising a frame having a supporting face, a flange inclined thereto, a supporting member secured to the frame and spaced from the flange, a leg fitting between the flange and the member, and a pivot pin for the leg extending from the flange to the member.

1,680,066. PROCESS FOR OBTAINING PURE ALUMINA AND ALKALI-METAL CARBONATES. FRITZ ROTHE, Aachen, and HANS BRENEK, Porz, near Cologne, Germany, assignors to the Firm Rhenania Verein Chemischer Fabriken A. G., Cologne, Germany. Filed Oct. 6, 1925, Serial No. 60,922, and in Germany Oct. 13, 1924. 8 Claims. (Cl. 23—52.)

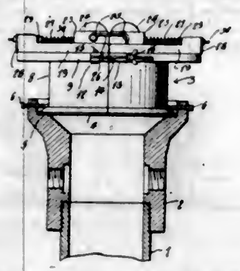
1. The process which consists in mixing minerals containing alumina with an alkali-metal sulphate and heating said mixture to incandescence in the presence of steam at a temperature of at least 1100° C. avoiding any reduction in the mixture during the process.

1,680,067. PROCESS FOR MAKING SHEET-METAL CHAINS. THEODORE RUSSELL, Naugatuck, Conn., assignor to J. M. Russell Manufacturing Company, Naugatuck, Conn., a Corporation of Connecticut. Filed June 24, 1927. Serial No. 201,131. 2 Claims. (Cl. 59—35.)



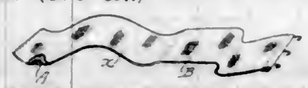
2. The process of making two different forms of links from a single sheet metal strip, which comprises successively stamping out a plurality of links diagonally to the grain of said strip, and then successively stamping a plurality of links longitudinally from both edges of the scrap left after said diagonally stamped links have been removed, said second-mentioned links having central recesses of the same outline as the corners of said first-mentioned links.

1,680,068. FLEXIBLE DRILL NIPPLE AND OIL SAVER. FREDERICK W. SADLER, Oklahoma City, Okla. Filed Mar. 30, 1927. Serial No. 179,622. 10 Claims. (Cl. 166—14.)



1. A drilling nipple comprising pivotally connected sections, means securing the sections in closed relation, a slide carried by each section, rollers journaled in the slides, means detachably connecting the slides, and springs bearing against the slides.

1,680,069. SANITARY PILLOW. NICHOLAS SCHENK, St. Louis, Mo. Filed Jan. 17, 1927. Serial No. 161,602. 2 Claims. (Cl. 5—337.)

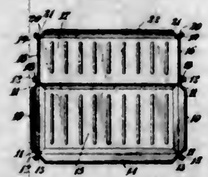


1. A head rest composed of a supporting means comprising a relatively broad strip of resilient sheet metal having an upwardly curved intermediate portion and upwardly bowed end portions curved slightly in the opposite direction to said curved intermediate portion, a flexible head engaging portion attached to one of said end portions, and means for connecting said head engaging portion to the other of said end portions whereby the intermediate portion of said strip is held in a substantially horizontal position and the end portions of said strip in an upright position when the free end of said head engaging portion is attached to the other of said end portions.

1,680,070. PURIFICATION OF NAPHTHALENE. GEORG SCHROETER, Berlin, Germany. Original application filed Aug. 29, 1921, Serial No. 496,639, and in Germany May 13, 1916. Divided and this application filed Mar. 30, 1925. Serial No. 19,532. 4 Claims. (Cl. 260—168.)

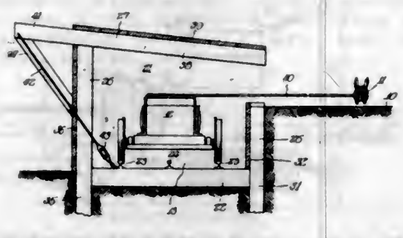
1. A process of treating naphthalene to remove those impurities which act as catalyzer poisons on hydrogenation in the presence of a hydrogenation catalyst, which comprises subjecting naphthalene, at a temperature above its melting point to the action of a metal loosely combined with a non-acid agent.

1,680,071. EXTENSION PACKING CASE. ROBERT W. STANLEY, Holyoke, Mass., assignor to Bergstan Patents Corporation, Wilmington, Del., a Corporation of Delaware. Filed May 1, 1925. Serial No. 27,163. 7 Claims. (Cl. 220—6.)



1. An extension packing case comprising a main member having inclined peripheral flanges lying within the plane of the adjacent sides of the case, an extension having inclined corners and peripheral flanges to fit the flanges of the main part of the case, and a cover having flanges to fit those of the extension and the main part of the case whereby the cover can be used either for the main case or for the extension.

1,680,072. RACING-TRACK APPARATUS. HARRY B. STAVER, Chicago, Ill. Filed Jan. 13, 1927. Serial No. 160,807. 5 Claims. (Cl. 272—4.)



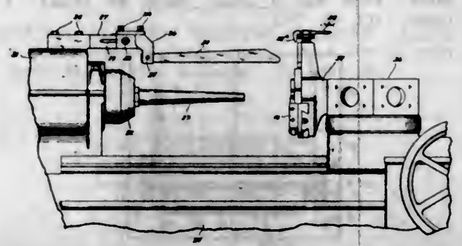
1. In an animal racing course comprising a racing track, a carriage track disposed on one side of said racing track, a carriage arranged to be driven on said carriage track and a lure carried on said racing track by said carriage to induce dogs to run therebehind, a housing for covering said carriage track, said housing comprising a wall disposed on the side of the carriage track opposite said racing track and a roof supported on said wall to provide a continuous opening on the side of the housing adjacent said racing track, said roof having extensions on the side of the wall opposite said tracks, and means for bracing said extensions against said wall below said roof to hold said roof in fixed position.

1,680,073. PROCESS OF MAKING NOZZLES. JAMES HALL TAYLOR, Oak Park, Ill. Filed Nov. 28, 1924. Serial No. 752,526. 5 Claims. (Cl. 29—157.)



1. The process of forming nozzles which comprises first forming a circular body with a flange at one end and with a central opening of substantially ultimate size therethrough, and then forming a peripheral groove in said body adjacent said flange to form a central neck and a flange on the other end of said neck.

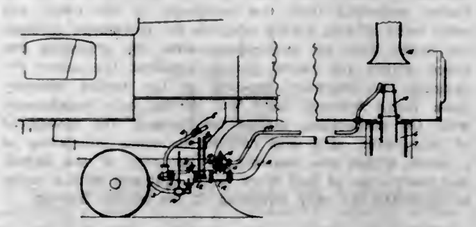
1,680,074. TAPER-TURNING ATTACHMENT FOR MACHINE TOOLS. JOHN J. N. VAN HAMERSVELD, Cleveland Heights, Ohio, assignor to The Warner and Swasey Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 16, 1926. Serial No. 122,745. 22 Claims. (Cl. 82—17.)



1. A taper turning attachment for machine tools having two relatively movable members, said attachment comprising a cam adapted to be applied to one of said members and a unit adapted to be applied to the other and comprising a body having a follower engageable with the cam, a cutter holder, and two thrust resisting members having separate pivoted supports with independent connections with the follower.

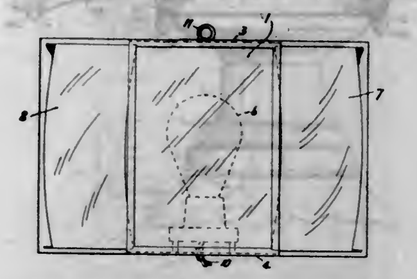
12. A taper turning attachment for machine tools having two relatively movable members, said attachment comprising a cam adapted to be applied to one of said members and a unit adapted to be applied to the other, said unit comprising a body having a cutter holder, thrust resisting means and a follower composed of two portions one engageable with the cam and the other operatively connected to the thrust resisting means and to the cutter holder, an adjusting member for shifting the last mentioned portion of the follower with respect to the first named and serving when moved in one direction to shift the thrust resisting means and the cutter holder away from the work piece, and when shifted in the opposite direction bringing the thrust engaging means and the cutter holder in operative position with respect to the work piece and an adjustable stop for positioning said adjusting member with the thrust resisting means and cutter holder in the last mentioned position.

1,680,075. EXHAUST-STEAM-PRESSURE CONTROL FOR INJECTORS. ROY J. VAN METER, Sturgis, Mich., assignor to The Superheater Company, New York, N. Y. Filed Mar. 23, 1925. Serial No. 17,496. 4 Claims. (Cl. 103—265.)



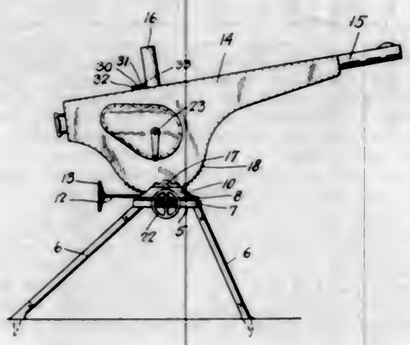
1. The combination of a boiler, an injector supplying feed water thereto, means for supplying exhaust steam to said injector, and a pressure relief valve located in said means, said valve being normally closed and opening only when the pressure within said means exceeds a pre-determined figure.

1,680,076. LIGHT FOR SHAVING AND THE LIKE. OSCAR WIEDERHOLD, Philadelphia, Pa. Filed Feb. 16, 1927. Serial No. 168,503. 2 Claims. (Cl. 240—4.)



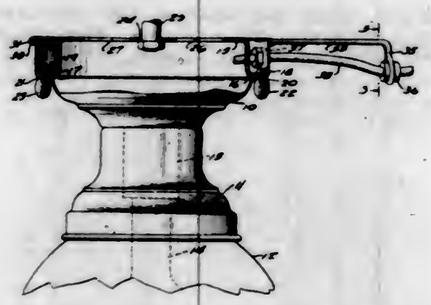
1. A light for shaving and the like comprising a receptacle of which the front consists of a mirror and which is open at the sides, a lamp in the receptacle behind the mirror, and movable reflectors arranged to project outwardly at each of the side edges of the mirror and back of the lamp and adapted to reflect light forwardly from opposite sides of the mirror.

1,680,077. TOY CATAPULT. FRED E. ALLENDER, Davenport, Iowa. Filed June 13, 1927. Serial No. 198,547. 2 Claims. (Cl. 124—13.)



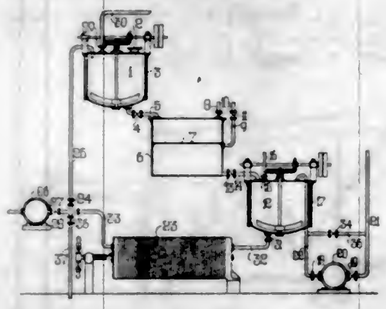
1. In a catapult of the character described, a chamber, a horizontal barrel within this chamber and projecting through the forward end thereof, the rear end of the barrel being slotted, means for feeding projectiles through the rear end of the barrel, a rotor within the chamber beneath the rear end of said barrel, spring blades radiating from the periphery of the rotor, the outer ends of said blades adapted for movement through the barrel slots for engagement with the projectile disposed within the barrel, means adjacent the barrel for causing the rearward bending of the blades whereby upon being released they will swing into engagement with the projectiles, means for causing the movement of said rotor, said first mentioned means consisting of a block within the chamber at the rear of the barrel, the lower edge of said block being equipped with a roller to facilitate the easy stripping of the blades thereby.

1,680,078. LIGHTING FIXTURE. ARTHUR B. ALLWORTH, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a Corporation of Connecticut. Filed Mar. 18, 1925. Serial No. 16,308. 6 Claims. (Cl. 240—78.)



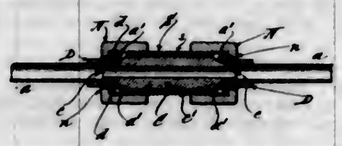
1. A lighting fixture comprising a sheet metal canopy, a device attachable to a ceiling support and to which the canopy is removably attached, a wire loop, the upper edge of the canopy being rolled about the wire loop, a portion of the loop projecting laterally from the canopy, and a cord supporting bushing carried on the outer end of the loop.

1,680,079. MANUFACTURE OF PURE SULPHUR. WILLIAM HENRY BENTLEY, Burnley, England, assignor of two-thirds to John Riley & Sons Limited, Hapton, England, a British Company. Filed Aug. 16, 1926, Serial No. 129,561, and in Great Britain Aug. 17, 1925. 11 Claims. (Cl. 23—224.)



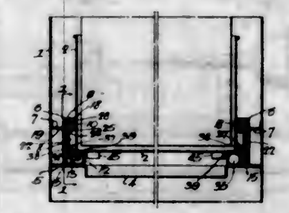
1. The cyclic process of preparing pure sulphur which comprises decomposing a polysulphide solution by hydrogen sulphide, separating the precipitated pure sulphur from the mother liquor and dissolving crude sulphur in the hydrosulphide mother liquor to give a polysulphide solution which can again be treated with hydrogen sulphide.

1,680,080. PIPE COUPLING. JOSEPH BENZION, New York, N. Y. Filed Sept. 18, 1926. Serial No. 136,219. 3 Claims. (Cl. 285—79.)



1. A pipe coupling of the character designated, including a splice-core-duct formed with conoidal extremities for contactual engagement with opposed flared ends of piping, and means for clamping said flared ends of piping against the conoidal extremities of said splice-core-duct including a connecting sleeve mounted on said splice-core-duct, clamping sleeves embracing said flared ends of the piping, and nuts threaded on said connecting sleeve at opposite ends thereof and loosely fitting around said clamping sleeves to permit adjustment thereof over the ends of the splice-core-duct while acting on said sleeves to clamp the tapered ends of said pipes against the ends of said splice-core-duct.

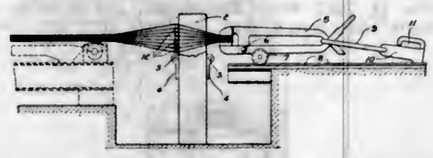
1,680,081. CABINET. CONRAD BERGMANN, Philadelphia, Pa., assignor to Columbia Steel Equipment Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 9, 1925. Serial No. 14,227. 1 Claim. (Cl. 45—77.)



A cabinet having a fixed track of channel form, said track having a rib extending longitudinally in the bottom thereof, telescoping tracks disposed in the channel

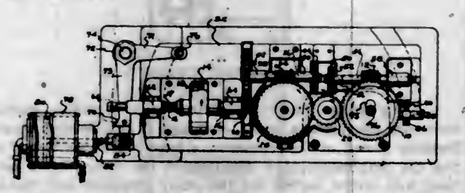
of the fixed track in spaced relation thereto, balls for supporting the telescoping tracks relatively to each other, and balls mounted in the bottom of the channel on each side of the rib for supporting respectively the said telescoping tracks relatively to the said fixed tracks.

1,680,082. SHEET-OPENING MECHANISM. FLORENCE C. BIGGERT, Jr., Pittsburgh, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Original application filed Sept. 27, 1923, Serial No. 661,406. Divided and this application filed Nov. 4, 1926. Serial No. 146,126. 5 Claims. (Cl. 29—17.)



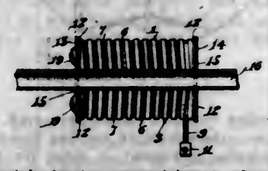
1. Opening mechanism for a pack of sheets including a plurality of loosely mounted separating bars free to move with the movement of the sheets, and means for drawing the sheets of the pack over opposite sides of adjacent bars.

1,680,083. GEAR-CHAMFERING MACHINE AND METHOD FOR CHAMFERING GEAR TEETH. ARTHUR BLADES and FREDERICK D. VAN VALKENBURG, Detroit, Mich., assignors, by mesne assignments, to Dodge Brothers, Inc., a Corporation of Maryland. Filed Sept. 25, 1923. Serial No. 664,680. 12 Claims. (Cl. 90—15.)



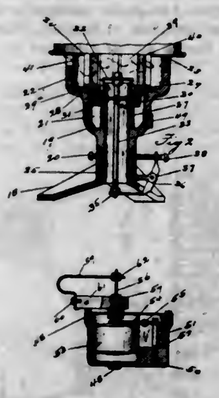
1. In a machine for finishing gear teeth, means for fastening a gear to be operated upon in fixed rotatable position, a cutter, means for rotating said cutter and gear in timed relation in engagement with each other, the said cutter having cutting teeth thereon of a form adapted to pass over the edges of the teeth of the gear on one face thereof in a continuous movement during the rotation so as to chamfer the edges of the teeth on one face of the gear in one revolution thereof with respect to said cutter, means for swinging said cutter into and out of cutting position on said gear, and means for automatically disconnecting said driving means when said cutter has been moved a predetermined distance away from said gear.

1,680,084. ELECTRIC HEATING ELEMENT. SAMUEL S. BOLSINGER, Roseburg, Oreg. Filed Oct. 8, 1927. Serial No. 224,911. 5 Claims. (Cl. 219—38.)



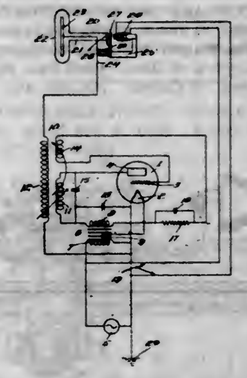
1. An electric heater comprising a plurality of heating elements consisting of tubular cores of non-conducting material and a single conductor common to the cores and adapted to have its ends connected with an electrical source, said conductor having a length thereof spirally wound on each of said cores, said cores being formed in their outer faces with squared, spiral threads to receive said conductor therein to permit expansion of said conductor and to prevent the convolutions thereof from crowding together, and supporting means connected to and maintaining said elements in spaced relation, said supporting means provided with openings for the mounting thereof on a fuel feed line to position said elements to surround the latter.

1,680,085. MEANS FOR BURNING LIQUID FUELS. JAMES L. BREESE, Jr., Lake Forest, Ill., assignor to Oil Devices Corporation, Chicago, Ill., a Corporation of Illinois. Filed Feb. 21, 1925. Serial No. 10,742. 9 Claims. (Cl. 158—67.)



1. In a burner of the class described, a chamber for containing a body of oil, a combustion chamber above the same, a heat conductor intermediate the combustion chamber and oil chamber and extending into the latter to vaporize oil therein, a thermostat, and means controlled jointly by the thermostat and the level of the oil in the oil chamber for feeding oil to the latter.

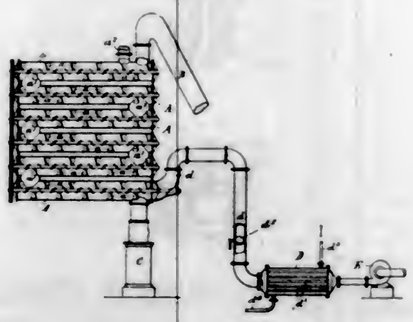
1,680,086. HIGH-FREQUENCY APPARATUS. WENDELL L. CARLSON, Schenectady, N. Y. Filed June 1, 1925. Serial No. 34,221. 2 Claims. (Cl. 174—177.)



1. A high frequency apparatus comprising an electron tube oscillator including grid, filament and plate electrodes with input and output circuits connected there-

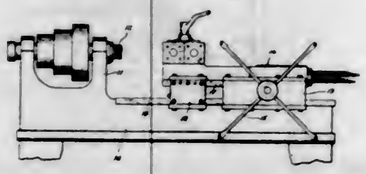
with, a source of low frequency alternating electrical energy, means for impressing said energy upon said output circuit, means for impressing a portion of said energy upon said filament, said input and output circuits including coupling coils arranged to impress high frequency electrical energy upon a third coil, a condenser electrode including a dielectric area, a conductive plate positioned within said dielectric area, a mechanical vibrator secured to said dielectric area, a connection between said third coil and said condenser electrode, an electromagnetic driver for said mechanical vibrator for imparting mechanical vibrations to said dielectric surface said electromagnetic driver being actuated from the same source of energy that excites said filament and said output circuit.

1,680,087. DRYING BLEACHING POWDER. JAMES TERENCE CONROY, ALFRED LAMBLE, and JOHN JAMES LATHAM, Liverpool, England, assignors to The United Alkali Company Limited, Liverpool, England. Filed Feb. 12, 1926, Serial No. 87,970, and in Great Britain May 15, 1925. 1 Claim. (Cl. 34—24.)



In the drying of bleaching powder the step of increasing the temperature and the stability of the bleaching powder as its moisture content is decreased, by passing the bleaching powder through an apparatus in one direction, and passing heated gas through the apparatus in the opposite direction, in combination with regulating the rate of travel of the gas.

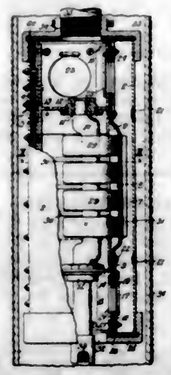
1,680,088. AUXILIARY SLIDE SUPPORT FOR MACHINE TOOLS. JAMES A. CRAIG, East Cleveland, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 26, 1927. Serial No. 163,585. 6 Claims. (Cl. 29—46.)



1. In a machine tool, a bed having a slide support, a slide movable thereon, and an auxiliary slide support carried by the bed, said auxiliary support comprising upper and lower members relatively adjustable to vary the height of slide engaging surfaces and also having means for laterally adjusting the slide engaging surfaces.

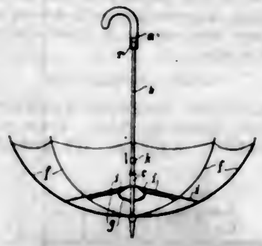
6. In a machine tool, a bed having a slide support, a slide movable thereon, an auxiliary support on the bed for the slide, said auxiliary support having inner members adjustable laterally, and means for adjusting said members comprising adjusting screws passing through the support, part having their ends abutting against the said members and part having threaded engagement therewith.

1,680,089. DIAPHRAGM PUMP. WILFRED BRERETON CROFTON, Johannesburg, Trasvaal, South Africa. Filed Jan. 15, 1927, Serial No. 161,322, and in Union of South Africa Nov. 8, 1926. 7 Claims. (Cl. 103—150.)



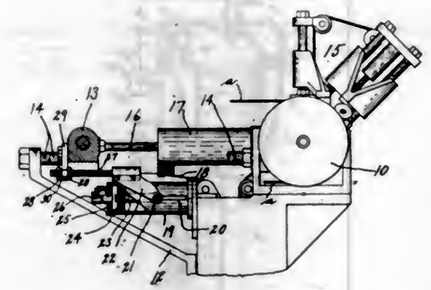
1. In a pump, the combination of a rotatable casing structure providing a pump chamber, a flexible diaphragm forming a wall of said chamber, a fixed crank positioned to flex the diaphragm upon rotation of the casing structure, inlet and outlet valves for the pump chamber and means to rotate the casing structure.

1,680,090. SELF-CLOSING UMBRELLA. ERNEST CULLMANN, Munich-Gladbach, Germany, assignor to the Firm Speck & Bonsmann Aktiengesellschaft, Haan, Germany. Filed Mar. 30, 1927, Serial No. 179,470, and in Germany Apr. 16, 1926. 5 Claims. (Cl. 135—44.)



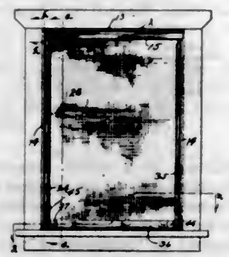
1. A self-closing umbrella including a staff, a self-closing spring frame stressed on an opening movement thereof for a self-closing movement, a catch for holding the frame open, and a drop weight slidable upon the exterior of the staff for retracting the catch so as to permit the frame to close.

1,680,091. BEAD-COVERING MACHINE. CHARLES H. DESAUTELS, Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed June 5, 1925. Serial No. 35,047. 2 Claims. (Cl. 154—9.)



1. A bead wire covering machine in which the wire is looped around separable pulleys; comprising means to force the pulleys apart and means coupling thereto by a lost motion connection for damping excessive speed of separation without materially decreasing the ultimate force of separation.

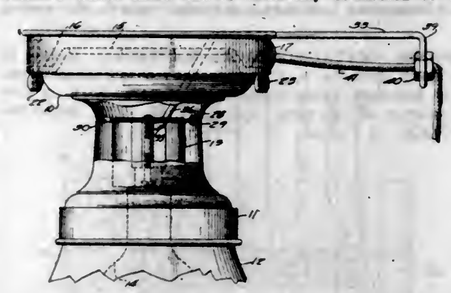
1,680,092. ROLLING-WINDOW-SCREEN CONSTRUCTION. HARRY DIXSON, Des Moines, Iowa, assignor to Rolscreen Company. Filed May 13, 1925. Serial No. 29,960. 16 Claims. (Cl. 156—39.)



1. In a structure of the class described, the combination of a screen mounted to be rolled and unrolled having enlarged portions at its side edges, and having a stiff binder strip provided with enlarged end portions, guides receiving the side edges of the screen including the enlarged portions thereof and the enlarged end portions of the binder strip when the screen is unrolled each guide comprising a pair of resilient semi-cylindrical members opening toward each other and resiliently frictionally gripping the binder strip end portion, and having at one side parallel relatively long adjacent flanges formed on the respective semi-cylindrical members and adapted to be sprung apart for portions of their lengths to facilitate the spreading and contracting action of the guide when the binder strip is slid therein.

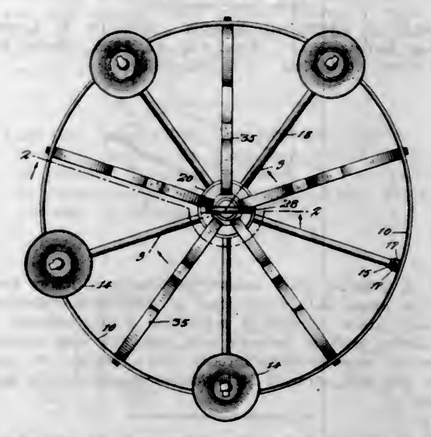
1,680,093. LIGHTING FIXTURE. LEROY C. DOANE, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a Corporation of Connecticut. Filed Apr. 23, 1925. Serial No. 25,192. 7 Claims. (Cl. 240—78.)

1. The combination with a lighting fixture having a canopy, a lamp socket, a shade supporting portion, and means for supporting the canopy from the ceiling, of a member whose inner end is releasably connected to the



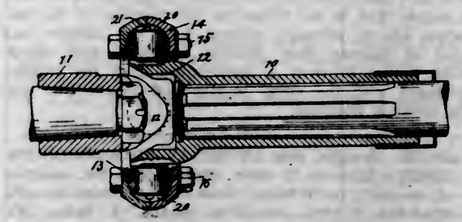
canopy near the center thereof and which passes outwardly over the upper edge of the canopy, and a cord supporting bushing carried by the member.

1,680,094. LIGHTING FIXTURE. LEROY C. DOANE, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a Corporation of Connecticut. Filed Sept. 8, 1926. Serial No. 134,154. 11 Claims. (Cl. 240—78.)



1. In a lighting fixture, an outer ring, a central splicing chamber, a plurality of lamp sockets, hollow socket supports fastened to the ring, hollow spokes extending from the splicing chamber to the supports, wiring extending from the splicing chamber through the spokes and supports to the lamp sockets, and a detachable supporting column connected with the splicing chamber.

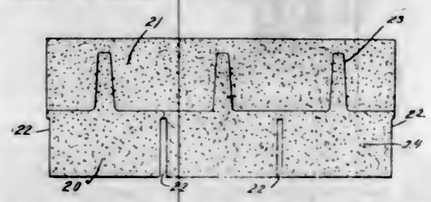
1,680,095. UNIVERSAL JOINT. DAVID F. DOMIZI, Cleveland, Ohio. Filed Feb. 6, 1924. Serial No. 690,900. 7 Claims. (Cl. 64—102.)



1. A universal joint comprising driving and driven members, each provided with a pair of diametrically opposite power transmitting extensions, one pair in a plane

at right angles to the other, an annular casing into which said extensions project, and spherical bushings receiving said extensions and having spherical seats in the casing.

1,680,096. METAL-SURFACED MATERIAL. RALPH E. DRAKE, Jamaica, N. Y., assignor, by mesne assignments, to Anaconda Sales Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 15, 1925. Serial No. 50,420. 5 Claims. (Cl. 204—8.)



1. A sheet material comprising a substantially smooth non-metallic base coated with a layer of asphalt of substantial thickness, said layer having an embossed surface, a layer of electro-conductive material over the embossed surface of the asphalt, and a layer of metal over the electro-conductive layer and conforming to the irregularities of the embossing.

1,680,097. PRINTING PLATE. WILLIAM S. EATON, Sag Harbor, N. Y. Filed Aug. 31, 1926. Serial No. 132,666. 6 Claims. (Cl. 101—395.)



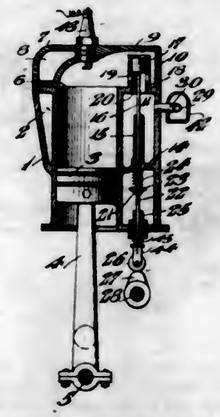
1. A printing plate embodying therein a heavy base of low grade unhardened steel, a thin surface stratum of high grade unhardened metal and a thin stratum of a uniting medium between said base and said surface stratum, whereby substantially every portion of said base and said stratum is permanently united with said base.

1,680,098. METHOD OF PRODUCING VOLATILE METALS FROM THEIR SULPHIDES. HENNING GUSTAV FLODIN, Roslags-Nasby, and EMIL GUSTAF TORVALD GUSTAFSSON, Stockholm, Sweden; said Henning Gustav Flodin assignor to Harry Broady, Stockholm, Sweden. Filed Apr. 10, 1924. Serial No. 705,531. 11 Claims. (Cl. 75—22.5.)

1. A method of producing metals from their sulphides, comprising heating in a closed electric furnace a charge of solidified briquettes of a mixture of a finely divided material containing a sulphide of a metal capable of being liberated from the sulphide by iron, with metallic iron in a finely divided state, said charge being of such a nature that in the briquettes the particles of the materials are in intimate contact with one another and fixed as regards their relative positions, said charge being heated to such a temperature that the sulphur combined with the metal is given off to the iron and the metal is liberated.

1,680,099. VALVE FOR INTERNAL-COMBUSTION ENGINES. WILLIAM C. GRAY, Philadelphia, Pa., assignor of one-half to William Goldstein, Philadelphia, Pa. Filed Feb. 5, 1926. Serial No. 86,168. 1 Claim. (Cl. 123—188.)

In a device of the character stated, an engine cylinder, an inlet chamber and an exhaust chamber at the side thereof, tubular, open ended inlet and exhaust valve housings integral with said cylinder and located above said chambers and at their bottom in communication therewith, and each having a pair of opposed side ports



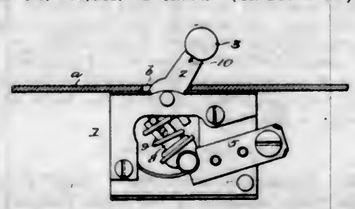
opening into the explosion chamber of said cylinder, imperforate inlet and exhaust piston valves reciprocable in said valve housings, means for reciprocating said valves, and a head for said cylinder having pendant walls for isolating a pair of said valves from an adjacent pair.

1,680,100. SWITCH. MONROE GUETT, Hartford, Conn., assignor to Hart & Hegeman Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Feb. 19, 1927. Serial No. 169,518. 6 Claims. (Cl. 200—67.)



1. The combination in a switch structure of a base having a cavity therein; a pivot bearing at the bottom of the cavity; a member extending across the cavity of the base; a bearing on the cross-member; a switch-lever mounted on the pivot in the cavity of the base; a crank pivotally mounted in the bearing on the cross-member; a spring connected to the lever and the crank and tending to hold the two parts on their respective bearings; blades actuated by the crank; and terminals on the base.

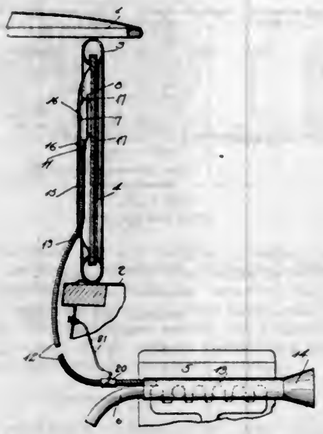
1,680,101. LEVER-OPERATED ELECTRIC SWITCH. MONROE GUETT, Hartford, Conn., assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Mar. 30, 1927. Serial No. 179,642. 1 Claim. (Cl. 200—172.)



The combination in a lever actuated electric switch, of a body portion; a flat operating lever pivoted thereto, the outer end of the lever being slotted to form two arms;

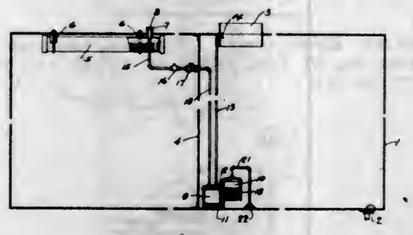
and an enlargement forming a hand-hold having an opening therein to receive the arms of the lever, the arms having notches and the enlargement having an internal rib arranged to enter the notches when the enlargement is mounted on the lever.

1,680,102. WINDSHIELD HEATER. LOUIS HAGEDORN, Luverne, Minn. Filed Oct. 18, 1927. Serial No. 226,985. 1 Claim. (Cl. 20—40.5.)



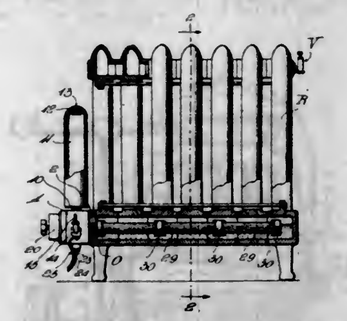
In a windshield heater for motor vehicles, the combination with the windshield frame, of a spring member detachably engaged at its ends with the frame, a heater device carried by the spring member, the heater device comprising a casing having openings in one wall directed toward the windshield glass, a flexible conduit attached to the heater, and an air heating chamber associated with the motor exhaust pipe and having the flexible conduit attached thereto.

1,680,103. LIQUID-MEASURING DEVICE. CHARLES R. HARDY, Mount Vernon, N. Y., assignor to The Superheater Company, New York, N. Y. Filed Dec. 13, 1924. Serial No. 755,804. 20 Claims. (Cl. 210—39.)



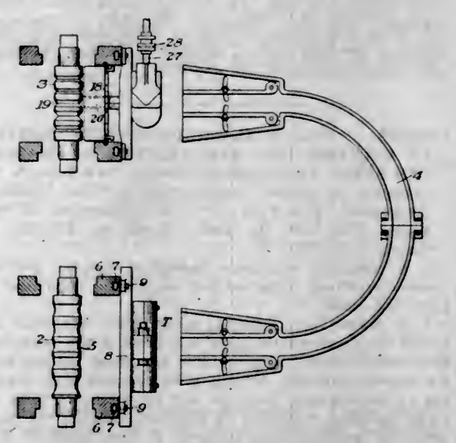
1. In apparatus of the class described, the combination, with a main receptacle having a varying quantity of liquid therein; of an auxiliary receptacle containing a second liquid, a confined fluid column maintained under a pressure above atmospheric by an amount equal to the difference in head between said liquids, and means whereby said column is actuated by variations in the liquid level of said main receptacle to transfer said second liquid from said auxiliary to said main receptacle in proportion to the quantity of liquid to said main receptacle.

1,680,104. STEAM-HEATING ATTACHMENT FOR RADIATORS. CECIL A. HEAD, Royal Oak, Mich. Filed Oct. 11, 1924. Serial No. 743,081. 10 Claims. (Cl. 219—38.)



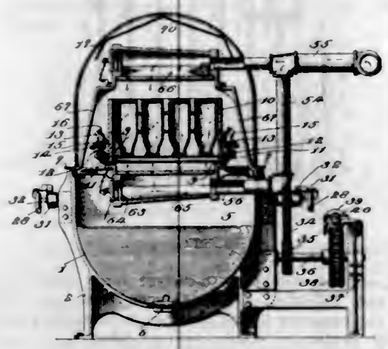
4. A steam generating attachment for a steam generating and collecting chamber, comprising an electric heater for reception in the chamber, a controlling switch for said heater, a water receiver adapted to receive water forced from the chamber by steam pressure and a common carrying member for said heater, said switch and said receiver, said member having a passage to place the receiver in communication with the chamber; said carrying member having a threaded portion for coupling it to the chamber.

1,680,105. REPEATER FOR ROLLING MILLS. LANE JOHNSON, Ingram, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 29, 1924. Serial No. 740,530. 4 Claims. (Cl. 80—52.)



1. In a repeater for rolling mills, a repeater, a rolling mill adjacent the delivery end of said repeater, a guide associated with said rolling mill for guiding the end of a bar from the delivery end of said repeater into the pass of said mill, a pair of driven rolls interposed between the delivery end of the repeater and said guide for pushing the end of the bar through said guide, means for driving said rolls at a smaller peripheral speed than that of the rolls of the rolling mill, and means in the driving connections of said rolls whereby the rolls are driven by the bar after the latter has been gripped by the rolls of said rolling mill, substantially as described.

1,680,106. BOTTLE-WASHING MACHINE. ROY A. MANNING, Rutland, Vt., assignor to Manning Manufacturing Company, Rutland, Vt., a Corporation of Vermont. Filed July 30, 1920. Serial No. 400,007. 1 Claim. (Cl. 141—7.)



A spray head for bottle washing machines comprising having a jet box provided with a removable cover having a plurality of openings forming jets, said box having a bottom inclined transversely and longitudinally towards one end and a drain opening arranged within the lower end of said box.

1,680,107. PROCESS FOR PREPARING FLUE DUST FOR SMELTING IN BLAST FURNACES. FRANK F. MARQUARD, Clairton, Pa. Filed Oct. 15, 1927. Serial No. 226,524. 8 Claims. (Cl. 75—73.)

1. That step in the process of treating iron ore flue dust for smelting which consists in mixing ammonia still waste liquor with the flue dust.

1,680,108. ARYL-AZO-DIAMINOPYRIDINES USEFUL AS BACTERICIDES AND PROCESS OF MAKING THE SAME. IWAN OSTROMISLENSKY, New York, N. Y., assignor, by mesne assignments, to The Pyridium Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 24, 1923. Serial No. 676,855. 6 Claims. (Cl. 167—7.)

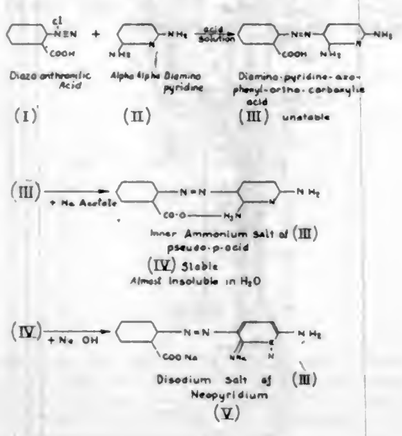
1. A medicinal substance including aryiated azotized diamino-pyridines, prepared for use in the treatment of germ infections.

6. A process for producing a medicinal substance for use in the treatment of germ infections, which comprises diazotizing aniline, coupling the diazotized aniline with 2-6 diamino-pyridine, forming a soluble acid salt, purifying by decomposing the acid salt by treatment with an alkali material, removing by-products, treating the purified basic material thus produced to form again an acid salt of phenyl-azo-diamino-pyridine.

1,680,109. METHOD OF OBTAINING PYRIDIUM. IWAN OSTROMISLENSKY, New York, N. Y., assignor to The Pyridium Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 26, 1926. Serial No. 97,771. 5 Claims. (Cl. 260—42.)

1. The method of obtaining a substance of the character described, which consists in the direct coupling of diazotized amines of the aromatic series with diaminopyridine salts in hydrochloric acid solution, to the amount of more than one half and less than two molecules of the diazotized amines.

1,680,110. METHOD OF OBTAINING NEOPYRIDIUM. IWAN OSTROMISLENSKY, New York, N. Y., assignor to The Pyridium Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 26, 1926. Serial No. 97,772. 12 Claims. (Cl. 260—42.)



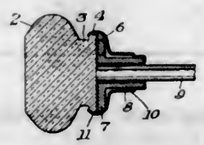
12. As an article of manufacture a disodium salt of diaminopyridineazophenylorthocarboxylic acid, which has the probable structural formula:

$$C_6H_4(COONa)N_2C_5H_2NNH_2(NNa).$$

1,680,111. PHENYL-AZO-ALPHA-ALPHA-DIAMINOPYRIDINE DIHYDROCHLORIDES AND METHOD OF OBTAINING THE SAME. IWAN OSTROMISLENSKY, New York, N. Y., assignor to The Pyridium Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 23, 1927. Serial No. 221,629. 2 Claims. (Cl. 260—42.)

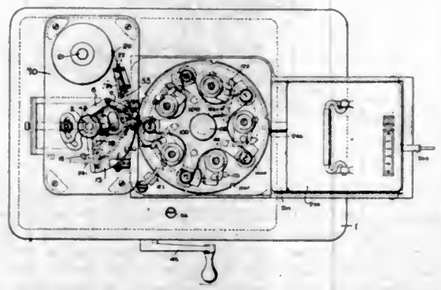
1. As an article of manufacture, phenyl-diazo-alpha-alpha-diaminopyridine dihydrochloride having the following characteristics: fine needle-like silky glistening crystals with violet shading.

1,680,112. KNOB. FRANK J. PETERSON, Pittsburgh, Pa. Filed Aug. 27, 1927. Serial No. 215,808. 4 Claims. (Cl. 292—347.)



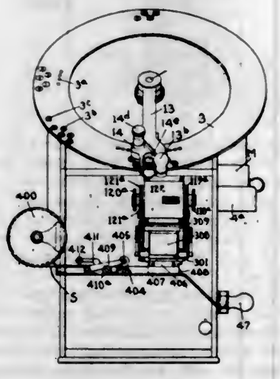
1. A knob assembly comprising a knob having an undercut slot in the rear face thereof, a sleeve having a cross bar engaging in said slot, and a shaft threaded through the sleeve and adapted to bear against the end face of the knob.

1,680,113. PRINTING AND REGISTERING MECHANISM. ARTHUR H. PITNEY and JACOB W. OGDEN, Stamford, Conn., assignors, by mesne assignments, to Pitney-Bowes Postage Meter Company, Stamford, Conn., a Corporation of Delaware. Filed Apr. 5, 1922. Serial No. 549,734. 40 Claims. (Cl. 235—132.)



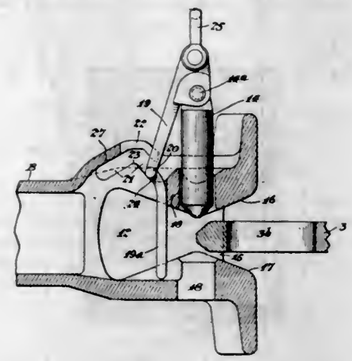
37. In mechanism for the purpose specified; means for printing any one of various denominations or values; means for registering in units of currency the total value amount of successive impressions made; and means controlled by the registering means for automatically locking the printing means against further use when a predetermined value amount has been printed.

1,680,114. PRINTING MECHANISM FOR PARCEL-POST POSTAGE METER MACHINES. ARTHUR H. PITNEY, Stamford, Conn., assignor, by mesne assignments, to Pitney-Bowes Postage Meter Company, Stamford, Conn., a Corporation of Delaware. Original application filed Jan. 8, 1923, Serial No. 611,496. Divided and this application filed Sept. 23, 1924. Serial No. 739,353. 20 Claims. (Cl. 235—101.)



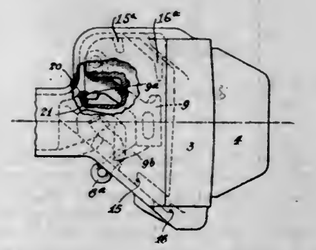
1. In mechanism of the character specified having an indexing gear, means for setting the gear preparatory to a printing operation, and means for returning the gear upon the completion of a printing operation; registering mechanism, means for actuating the registering mechanism in accordance with the setting of the indexing gear; a pin adapted to lock or unlock the registering mechanism; a lever operatively engaging the pin; means for moving said lever in one direction to cause the pin to engage and lock the registering mechanism, and means for moving the lever to cause the pin to release the registering mechanism, substantially as described.

1,680,115. CAR COUPLING. DAVID ROBINSON, Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 20, 1924. Serial No. 757,225. 5 Claims. (Cl. 213—189.)



1. A link and pin coupler having a centrally disposed, horizontal pocket; a vertically movable coupling pin intended to engage a link in said pocket; and supporting means pivotally connected to the pin and arranged to hold the pin in uncoupled position; said means engaging one portion of the coupler head in coupled position and another portion in uncoupled position; said portions being separated by an intermediate raised portion, whereby accidental tripping of said supporting means is prevented.

1,680,116. CAR COUPLER. DAVID ROBINSON, Cleveland, and RUSSELL J. WITTMER, East Cleveland, Ohio, assignors to National Malleable and Steel Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 5, 1926. Serial No. 127,230. 14 Claims. (C. 213—100.)

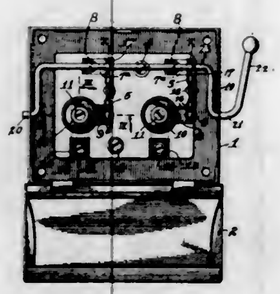


1. In a rigid jawed coupler head having a lock adapted to reciprocate in a cavity thereof; lock actuating means; and a lock-setting mechanism suspended in the cavity arranged to engage and support the lock in elevated position for lock-setting.

1,680,117. FUSED SWITCH. JOSEPH SACHS, Hartford, Conn. Filed Aug. 5, 1920. Serial No. 401,474. 9 Claims. (Cl. 200—114.)

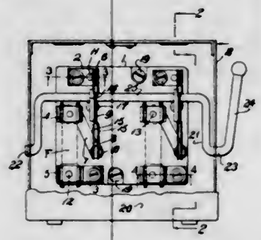
1. A fused switch comprising in combination, a base of insulating material, two separate wire attaching terminals respectively adjacent opposite edges of the base and accessible from the front thereof, a pair of fuse contacts on the front of the base comprising an outer screw shell and a center contact, the said contacts being adapted to receive a screw plug fuse and one of

them being directly connected with one wire terminal, a flat conducting member directly engaging at one end with the other fuse contact and extending transversely of the base in a direction approximately parallel to the aforesaid opposite edges thereof, the said member at the other end having a portion extending outward at right angles to the front face of the base and perpendic-



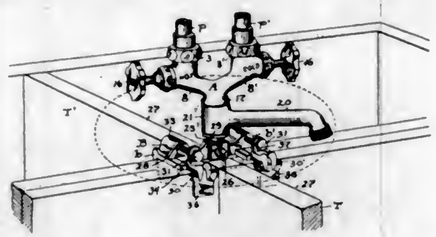
ular to the aforesaid opposite edges thereof so aa to form a switch contact, a second switch contact on the base in alignment with the first said switch contact, the said second contact being adjacent the remaining wire terminal and connected thereto, and a movable switch blade pivoted to one of the switch contacts and adapted to engage the other switch contact.

1,680,118. FUSED SWITCH. JOSEPH SACHS, West Hartford, Conn. Filed Sept. 7, 1926, Serial No. 134,121. Renewed June 23, 1928. 3 Claims. (Cl. 200—114.)



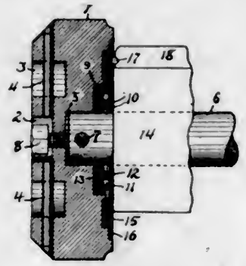
1. A fused switch comprising in combination, a base of insulating material, two separate wire attaching terminals respectively adjacent opposite edges of the base and accessible from the front thereof, a pair of fuse contacts spaced apart on the front face of the base and adapted to receive a cartridge enclosed fuse, the first of the said contacts being directly connected with one wire terminal, an outstanding switch contact at the front of the base adjacent and directly connected with the other wire terminal, a movable switch blade at the front of the base engaging the said switch contact when in closed position, the said fuse contacts and the said switch contact and blade being laterally offset from each other so as to form in conjunction with a fuse two parallel overlapping current paths, and a flat conducting member directly carried by the base and extending diagonally between the ends of the overlapping portions of the said current paths to connect them in series, the said member at one end directly engaging the second fuse contact and at the other end having an integral portion extending outward at right angles to the front face of the base so as to form a second switch contact which is also engaged by the switch blade when in closed position.

1,680,119. COMBINATION FIXTURE. FRED SCHULDER, Cleveland, Ohio. Filed Sept. 28, 1927. Serial No. 222,521. 12 Claims. (Cl. 4—193.)



1. A combination fixture, comprising a hollow body having a pair of intake branches adapted to be connected to separate supply pipes, said body also having a delivery branch formed with discharge openings in its side wall and an anchoring extension at its lower end constructed to prevent rotary movement of said body, and a discharge spout sleeved upon said delivery branch and adapted to rotate in a complete circle beneath said intake branches in a horizontal plane above said anchoring extension.

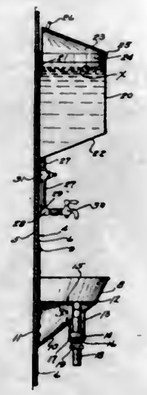
1,680,120. BALANCE WHEEL FOR ENGINES. ROBERT N. SHONER, Fort Wayne, Ind., assignor to Utility Strate Manufacturing Company, a Corporation of Indiana. Filed Sept. 9, 1927. Serial No. 218,433. 1 Claim. (Cl. 308—167.)



In combination with an engine having a crank-case and crank-shaft mounted therein, a fly wheel positioned on the end of the crank-shaft adjacent the end of the crank-case, said wheel having an annular chamfer in its rear face; a pin extending transversely through said shaft into the wheel; a screw threaded in said wheel in line with the axis thereof and bearing against the end of the crank-shaft whereby said pin is locked in place; a thrust bearing member including shims therefor disposed in said chamfer and acting against the adjacent end of the crank-case; an annular lubricating pad disposed in the wheel encompassing said bearing; and a retaining ring for said pad having a projecting tongue that engages the crank-case whereby rotation of the ring is prevented.

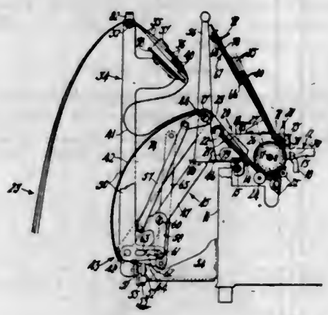
1,680,121. PORTABLE LAVATORY. HARRY L. SMITH, Minneapolis, Minn., assignor to Smith System Heating Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Sept. 1, 1927. Serial No. 216,872. 3 Claims. (Cl. 4—167.)

1. The combination with a lavatory, of a supporting bracket for the lavatory in the form of an inverted substantially semi-conical bracket supporting the basin of the lavatory on its base, a drain for the basin including a pipe extending through an aperture in said basin and a depending sleeve-like boss on the bracket and having a flange on its upper end resting on the bottom of the basin with a water-tight joint therebetween, and a



shouldered nut having screw-threaded engagement with said pipe and engaging the lower end of the sleeve-like boss as a base of resistance.

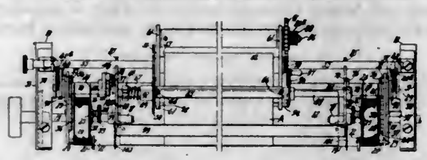
1,680,122. TYPEWRITING MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 4, 1923, Serial No. 660,724. Renewed Oct. 24, 1924. 17 Claims. (Cl. 197—126.)



1. In a continuous billing typewriting machine, the combination of a carriage, a platen on said carriage around which a continuous web comprising work-sheets with interleaved carbon-sheets may be fed, a carbon-carrier, a table, said carbon-carrier and said table being mounted independently of each other on said carriage, and a single finger-piece connected to said table and said carbon-carrier, and conditioned to simultaneously move the same upon their independent mountings.

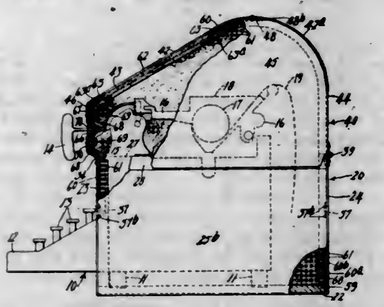
1,680,123. TYPEWRITING MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 5, 1924. Serial No. 736,028. 33 Claims. (Cl. 197—132.)

1. In a typewriting machine, the combination with a platen having a work-web engaging therearound, of an auxiliary ribbon positioned thereadjacent, means for supporting said auxiliary ribbon, manually-controlled means for lowering said supporting means to position said rib-



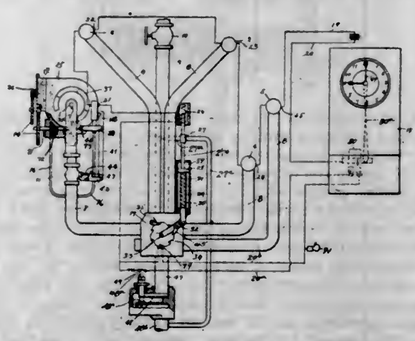
bon at the printing line of the platen, and means automatically operated during the lowering of said supporting means for line-spacing said web.

1,680,124. TYPEWRITING MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed June 13, 1925. Serial No. 36,792. 15 Claims. (Cl. 197—186.)



1. The combination with a typewriting machine having an extended carriage finger-piece, of a sound-deadening cabinet having an outer casing of sheet-metal and an inner felt lining with an interior, pitted surface, said casing having a lower body-part arranged for receiving said machine and a cover, said body-part and said cover being hinged together at the back and arranged with a slot between them at the front through which said finger-piece projects, and two resilient felt lips arranged for sealing said slot.

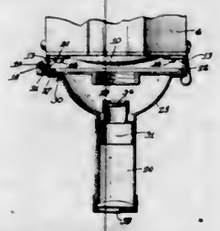
1,680,125. AUTOMATICALLY-OPERATED SOOT BLOWER. FRANK BOWERS, Detroit, Mich., assignor, by mesne assignments, to Diamond Power Specialty Corporation, Detroit, Mich., a Corporation of Michigan. Filed June 10, 1918, Serial No. 239,140. Renewed Aug. 23, 1924. 26 Claims. (Cl. 122—392.)



1. In a boiler cleaner system, the combination with a plurality of soot blower units connected with a main supply line, of electrically governed control means for

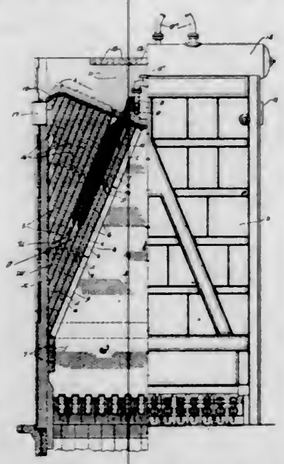
automatically bringing into operation successively the various units of the system, and means for draining the boiler cleaner system, said control means being arranged to prevent the automatic operation of the system until the said supply line has been thoroughly drained.

1,680,126. EXAMINATION LAMP. CHARLES T. BRADY, Detroit, Mich. Filed May 31, 1927. Serial No. 195,571. 1 Claim. (Cl. 240—41.)



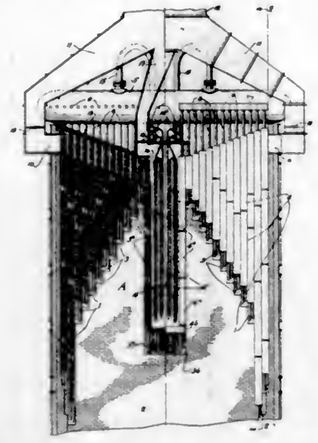
A light comprising a lamp housing, a lens in a wall thereof, an apertured cover movably applied to said wall and adapted to overlie said lens, a hinge joining said cover to said housing, said hinge including a spring tending to move the cover away from said lens, and a latch for maintaining said cover over said lens, said cover being adapted to support a light-modifying device around the aperture thereof.

1,680,127. BOILER. CARL A. W. BRANDT, Great Neck, N. Y., assignor to The Superheater Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 31, 1924. Serial No. 747,032. 2 Claims. (Cl. 122—303.)



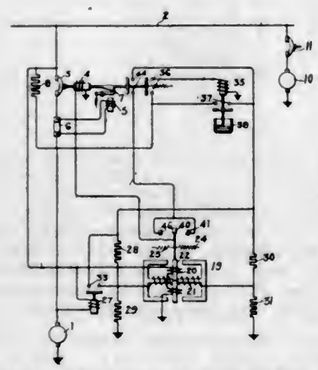
1. In a boiler of the class described the combination of a boiler setting, a furnace in the lower part of the setting, substantially horizontal boiler tubes extending across the boiler space and arranged in two unbaffled substantially triangular groups with the points of the triangles down defining an inverted V-shaped combustion space immediately above the furnace with said boiler tube groups adjacent to the space, headers at opposite ends of the tubes to which the tubes are secured, the headers at one end being in a higher position than those at the other end, whereby the tubes have a slight upward slope, a drum above the lower set of headers, a box above the higher set of headers, and tubes connecting the lower headers to the drum, the drum to the box, and the box to the upper headers, and a connection to the stack from each of the upper outer corners of the triangular spaces.

1,680,128. HIGH-PRESSURE WATER-TUBE BOILER. CARL A. W. BRANDT, Great Neck, N. Y., assignor to The Superheater Company, New York, N. Y. Filed Oct. 31, 1924. Serial No. 747,031. 4 Claims. (Cl. 122—303.)



1. In a boiler of the class described the combination of a setting, a furnace in the lower part of the setting, boiler tubes extending transversely across the boiler space and arranged in two substantially triangular groups with one side of the triangles against opposite walls of the boiler setting and the opposite point at the upper central part of the boiler space whereby there is defined an inverted V-shaped combustion space above the furnace, a connection from each of the upper outer corners of the triangular spaces to the stack, two parallel spaced groups of transverse tubes extending downward from the inner upper points of the triangles into the combustion space, a group of transverse tubes extending between their lower ends, whereby a generally rectangular space is delimited from the combustion space, and a superheater extending into said rectangular space.

1,680,129. AUTOMATIC RECLOSING CIRCUIT-BREAKER SYSTEM. HAROLD W. BROWN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 17, 1924. Serial No. 756,607. 7 Claims. (Cl. 175—294.)



1. In an automatic reclosing circuit breaker system, the combination with a source of current, a load circuit arranged to be supplied with current at a plurality of points, a circuit breaker arranged to connect said source to said load circuit, and closing means for said circuit breaker, of a polarized relay for controlling the operation of said closing means having an operating winding connected so

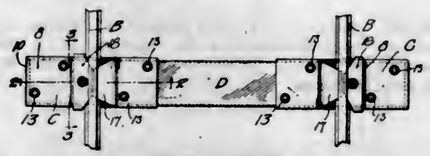
that the energization thereof varies with the load connected to the load circuit when said circuit breaker is open, and means whereby said relay controls the operation of said closing means in response to different conditions of the load circuit comprising means operative in response to a predetermined condition of said load circuit to vary the polarization of said relay.

1,680,130. MEDICAL-TABLET CONTAINER. BENJAMIN F. CONNER, Hartford, Conn., assignor to Colt's Patent Arms Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Mar. 17, 1927. Serial No. 176,231. 4 Claims. (Cl. 206—42.)



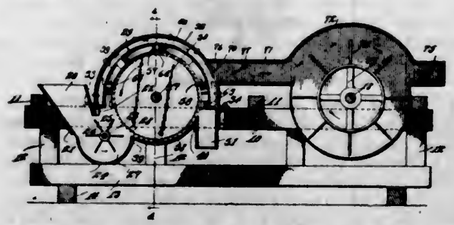
1. In a container for medical tablets and similar articles, the combination of a body comprising a substantially flat circular sheet metal bottom and a sheet metal means projecting upward from the bottom and forming a plurality of separate similar compartments uniformly spaced from the axis of the body each of the said compartments being substantially closed at the bottom and open at its outer side and being adapted to contain at least one of the said articles, and a sheet metal top cover pivotally connected with the body for movement about the axis thereof and having an annular skirt surrounding and approximately engaging the peripheral portions of the sheet metal means forming the compartments, the said skirt having an opening therein adapted to be brought into register with any one of the said compartments and of sufficient size to permit the removal therethrough of one of the said articles from its compartment and the said skirt serving when the opening is in register with one compartment to close all of the other compartments.

1,680,131. RAILWAY-TIE PLATE. JACOB COBL, Mount Ida, Va. Filed Nov. 10, 1927. Serial No. 232,346. 6 Claims. (Cl. 238—299.)



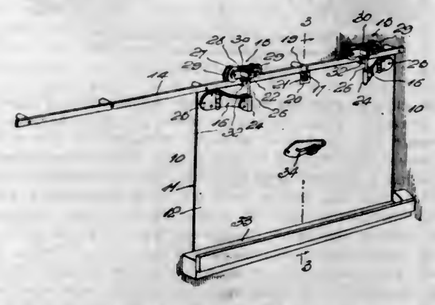
1. The combination with a wooden railway tie, of spaced tie plates supported on the tie and covering the end portions thereof, rails secured to the plates, and a sheet metal covering disposed on the tie intermediate the plates and having the opposite edges disposed under said plates.

1,680,132. COTTON GIN. CARY S. COX, Fresno, Calif., assignor of one-half to Jesse M. Cox and one-half to Frances Cox Whitt, Fresno, Calif. Filed July 20, 1927. Serial No. 207,307. 11 Claims. (Cl. 19—50.)



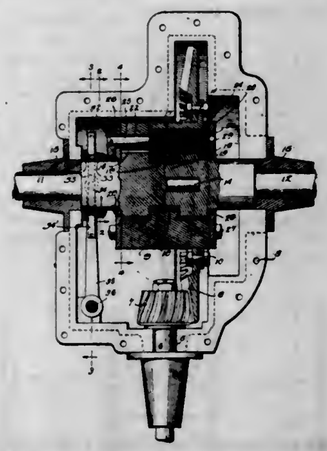
1. A cotton gin having a rotor provided with a plurality of teeth, a housing embracing the rotor and provided with a plurality of ribs on an inner face thereof and closely associated with the teeth, said ribs being in staggered relation to provide tracks for the cotton seeds, an air suction chamber associated with the housing, said ribs having a plurality of openings connecting the space between the housing and the teeth with the air chamber.

1,680,133. DOOR-MOUNTING MEANS. WARD S. CRAWFORD, Ottawa, Kans. Filed May 16, 1927. Serial No. 191,878. 2 Claims. (Cl. 16—104.)



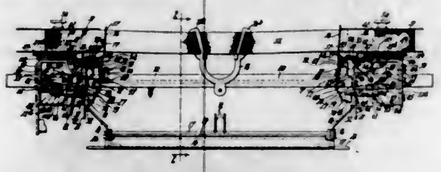
1. In combination, a door frame, a door of a size to fit therein, a track at the upper end of said frame spaced outwardly from the outer side thereof, carriages mounted on said track, horizontally swingable arms pivoted to said carriages and to the door on vertical axes, and co-acting means on the upper ends of the frame and door for suspending the latter independently of the carriages when said door is closed, said co-acting means being related to cause hanging of the door in a strictly vertical plane.

1,680,134. DIFFERENTIAL GEAR. ROBERT L. DENNISON, New York, N. Y. Filed Dec. 22, 1924, Serial No. 757,546. Renewed Nov. 15, 1926. 2 Claims. (Cl. 74—99.)



1. In a differential gear, a main driven member, a pair of sets of pinions carried by said member, axle sections arranged adjacent said main driven member, each of said axle sections being provided with a pinion meshing with one of said sets of pinions, one of said sets of pinions being provided with stub shafts extending therefrom, star shaped members mounted on the ends of said stub shafts, and a tapered sleeve loosely mounted on one of said axle sections and adapted to slide to a position within said star shaped members to contact therewith and prevent rotation thereof.

1,680,135. TYPEWRITING MACHINE. WILLIAM A. DOBSON, Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 18, 1924. Serial No. 738,336. 23 Claims. (Cl. 197—165.)



19. In a typewriting machine, the combination of a pair of rotatable spools having a ribbon trained thereon, a follower for each spool pivotally mounted for universal movement and engaged by said ribbon, key-operated means including a pivoted pawl-carrying lever for rotating each ribbon-spool, and means for each spool including a pivoted pawl-lifting cam for rendering its pawl inoperative, and at the same time rendering the pawls of the other spool operative, thus reversing the direction of ribbon-feed, each follower being swingable by said ribbon into co-operative relation with one of the pawl-carrying levers, and swingable thereby to actuate the pawl-lifting cam to effect a reversal of the direction of ribbon-feed.

1,680,136. COMPOSITION OF MATTER FOR TREATING HIDES AND SKINS. HARRY DODGE, Danvers, Mass. Filed Jan. 18, 1928. Serial No. 247,752. 2 Claims. (Cl. 149—1.)

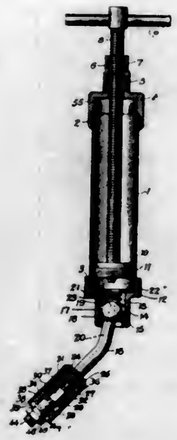
1. A composition of matter for the treatment of hides and skins consisting of formaldehyde, nitre, bicarbonate of soda and sulphate of sodium.

1,680,137. STOCKING PROTECTOR. SARAH DUNBAR, Lawton, W. Va. Filed Dec. 30, 1927. Serial No. 243,681. 3 Claims. (Cl. 36—2.)



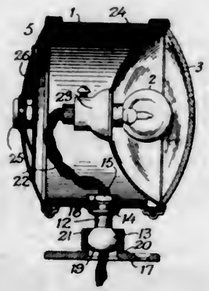
1. A stocking protector comprising a body adapted to fit about a stocking in encircling relation thereto with its side marginal portions overlapped and having its lower portion extended forwardly to overlie a portion of the foot of the stocking, a stirrup strap for anchoring the lower end of said body, a securing strap for the upper portion of said body having one end secured to the inner side edge portion of the body, said securing strap being passed outwardly through an opening in the body and wrapped about the body adjacent the upper end thereof with its free end overlapping the portion projecting outwardly from the body, and means to releasably secure the free end of the securing strap.

1,680,138. HIGH-PRESSURE GREASE-GUN CONNECTION. LEO EDELMANN, Chicago, Ill., assignor to E. Edelmann & Co., Chicago, Ill., a Corporation of Illinois. Filed July 17, 1925. Serial No. 44,308. 3 Claims. (Cl. 285—170.)



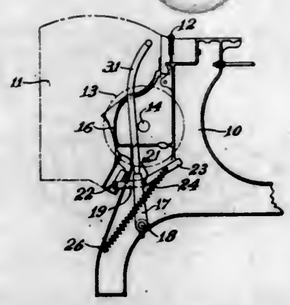
1. In combination with a lubricant receiving bearing fitting having a projection thereon and a lubricant conducting nozzle, a bearing member carried at the outer end of said nozzle having a bearing bead thereon, tapered jaws mounted for rocking movement on the bearing bead to separate to receive the bearing fitting, and a sleeve slidably mounted on the nozzle bearing to be moved to a position to close the jaws upon the bearing fitting and secure the same against rocking to the open position.

1,680,139. ROAD LIGHT. LEO EDELMANN, Chicago, Ill., assignor to E. Edelmann & Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 20, 1925. Serial No. 63,786. 3 Claims. (Cl. 240—7.1.)



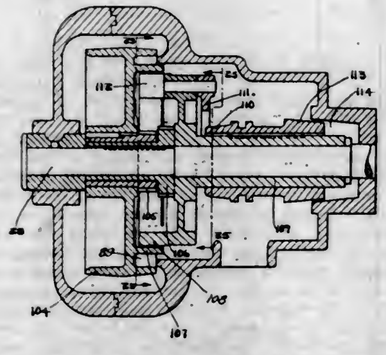
1. A road light comprising, in combination with a substantially cylindrical lamp casing having one end thereof closed and the remaining end open, said casing being provided with openings through the closed end and through the side wall thereof, a lamp mounted in the open end of the casing, a bracket member interchangeably connected in the openings of the casing provided with a bearing ball at this free end, and a mounting member provided with a socket to receive the bearing ball and support the light casing for universal adjustment.

1,680,140. GIN-BREAST LIFT. THOMAS ELLIOTT, Birmingham, Ala., assignor to Continental Gin Company, a Corporation of Delaware. Filed Aug. 24, 1927. Serial No. 215,067. 3 Claims. (Cl. 19—48.)



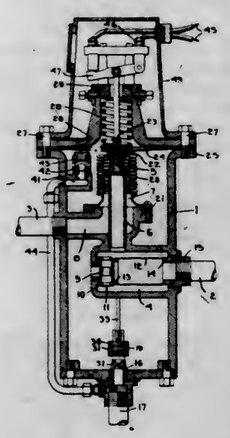
1. The combination with a gin frame having a breast pivoted thereto and held in operating position by gravity, of an operating arm, a floating lever carried by the operating arm and pivoted to the gin breast, and counterbalance means coacting with the operating arm to exert a lifting force on the gin breast while raising it, said floating lever and said counter-balance means being so arranged that the gin breast is held in raised position by gravity and the exertion of force is required to lower the breast.

1,680,141. REVERSING AND BRAKING MECHANISM FOR MACHINE TOOLS. WILLIAM T. EMMES, Cincinnati, Ohio. Original application filed Apr. 16, 1924, Serial No. 707,004. Divided and this application filed Oct. 4, 1924. Serial No. 741,599½. 3 Claims. (Cl. 74—34.)



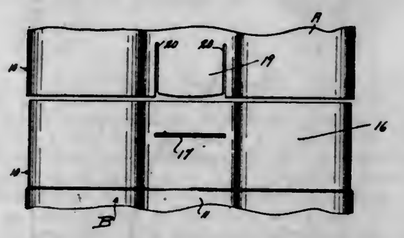
1. A reversing and braking mechanism comprising a drive shaft in the bearings of a stationary casing, a primary hubbed gear mounted and fastened to and on one end of said shaft, a secondary hubbed gear rotatively mounting the hub portion of the primary gear, a pulley and below the rim thereof a brake drum, said pulley by means of its hub portion mounting and being fastened to the hub portion of the secondary gear, an expanding brake band element with an elongated hub rotatively mounted on the other end of the drive shaft, said brake band element being aligned for engagement with the inner portion of the brake drum, an arm to expand the brake band element, and a double ended cone mounted in splined engagement on the elongated hub portion of the brake band element, with means adapted to move the cone to bring one end thereof into engagement with a recess in the wall of the casing to prevent rotation of the cone or to move the cone to bring its other end for operation of the arm to a position for expanding the brake band element, and a planetary gear system mounted on the brake band element adapted to cause reverse rotation of the shaft and comprising small elongated gears, and short large gears wtih one end of each elongated gear thereof engaging the primary gear, while the other ends thereof engage one of the short large gears, the latter gears engaging with the secondary gear.

1,680,142. RETARDING CHAMBER FOR AUTOMATIC SPRINKLER SYSTEMS. JOHN EDWARD EVANS, New York, and FRANCIS HERBERT GRIFFITHS, Yonkers, N. Y., assignors to The Reliable Automatic Sprinkler Co. Inc., New York, N. Y., a Corporation of New York. Filed Aug. 30, 1922. Serial No. 585,244. 12 Claims. (Cl. 169—23.)



1. In a retarding device for fire alarm systems, the combination with a retarding chamber, of a normally closed passage leading from a source of supply to an alarm mechanism, said passage being separate from the retarding chamber and having a continuously-open but restricted communication with said chamber, and means operated by fluid under pressure in said chamber to open said passage.

1,680,143. WHEEL BRIDGING FOR BAD ROADS. CARL F. W. FIEBKE, Athens, Wis., assignor of one-tenth to Oscar Rademacher, Westboro, Wis. Filed Feb. 4, 1928. Serial No. 251,973. 4 Claims. (Cl. 238—14.)



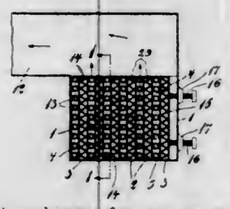
1. A wheel track consisting of a sheet of metal adapted to be laid down temporarily over a bad place in the road, the sheet having a depressed middle portion, upwardly and laterally inclined side portions, and downwardly extending lateral flanges, and bolts passing through said lateral flanges and beneath the middle portion and contacting with the middle portion.

1,680,144. METHOD OF PREPARING EXPANSION-JOINT COMPOSITION. ALBERT C. FISCHER, Chicago, Ill. Filed May 10, 1922. Serial No. 559,908. 4 Claims. (Cl. 106—31.)



2. The method of preparing expansion joint composition, which consists in mixing fibrous material of cellular structure with bituminous matter, while the bituminous matter is of a consistency below that at which it will saturate fibrous material.

1,680,145. HEAT EXCHANGER. NILS RICHARD FORSSBLAD, Vasteras, Sweden. Filed Jan. 27, 1925, Serial No. 5,143, and in Sweden Jan. 30, 1924. 4 Claims. (Cl. 257—166.)



3. In a heat exchanger for gaseous mediums in combination, a parallel arrangement of sheet metal partitions providing flat channels for the heat delivering gaseous medium and alternately therewith providing flat channels for the heat absorbing gaseous medium, all of said channels being substantially parallel with one another and communicating at their ends with inlets and outlets respectively, heat conducting filling material interposed between the partitions and forming thin gas passages extending substantially longitudinally in each channel, and a pressing device arranged in such a manner that the two external channel walls are subjected to a uniformly distributed pressure which is propagated by means of the filling members throughout the whole of the exchanger so as to establish uniformly distributed contact pressure between each partition and the filling material along longitudinal contact surfaces parallel with said gas passages.

1,680,146. OIL-TUBE STRAINER. JAYSON E. GILLESPIE, Normal, Nebr. Filed Feb. 2, 1925. Serial No. 6,489. 1 Claim. (Cl. 184—11.)



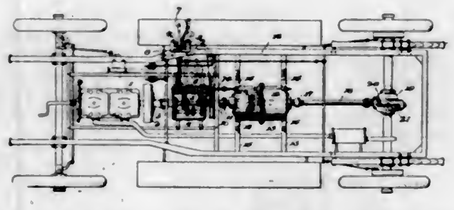
A strainer for the funnel of an oil tube of an internal combustion motor comprising a pair of spaced curved bars, a cap to which the upper ends of the bars are connected, said cap having a flange fitting over the upper end of the funnel and a plate to which the lower ends of the bars are connected, said plate having holes therein for receiving fastening means for connecting it with the lower part of the funnel.

1,680,147. TAP SOLE. BENJAMIN GILOWITZ, New York, N. Y. Filed Aug. 26, 1926. Serial No. 131,717. 4 Claims. (Cl. 36—32.)



1. A tap-sole having a relatively small integral substantially flat extension at its edge adapted to fill a worn spot on the sole of a shoe being repaired, said extension being readily severable from the tap-sole.

1,680,148. DEVICE FOR PREVENTING RETROGRADE MOVEMENT. JOHN LOUIS GONARD, Englewood Cliffs, N. J., assignor, by mesne assignments, to Kant-Back Corporation, a Corporation of New Jersey. Filed July 25, 1924. Serial No. 728,219. 3 Claims. (Cl. 188—30.)

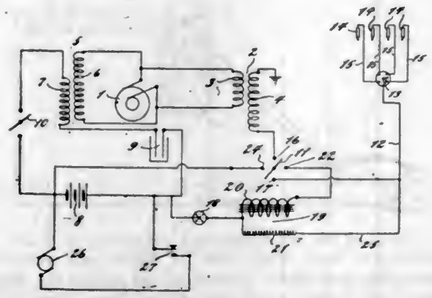


2. In a vehicle having rear wheels for propelling said vehicle, the combination of a drive shaft operatively connected with said wheels of the vehicle, a transmission, a shifter rod for the transmission, a casing fixed to the vehicle, said shaft passing through the casing, a braking ring secured within the casing, a disc loose upon the shaft and provided with a plurality of pockets at the periphery thereof, rollers mounted in the pockets, said pockets having a reduced portion adapted to force the rollers into engagement with the brake ring when the disc is revolved in one direction for locking the shaft against rotation, said pockets having enlarged portions adapted to receive the rollers when the disc is revolved in the opposite direction and thereby maintain the rollers out of engagement with the brake ring, means for locking the disc to the shaft and comprising a clutch element carried by the disc, and a clutch element driven by the shaft adapted to be moved in operative engagement with the clutch element on the disc, and means connecting the shifter rod with the second mentioned clutch element, whereby the second mentioned clutch element may be moved into operative engagement with the first mentioned clutch element.

1,680,149. SYSTEM OF DISTRIBUTION. WILLIAM S. GOULD, New York, N. Y., assignor, by mesne assignments, to Gould Storage Battery Company, Inc., New York, N. Y., a Corporation of New York. Filed June 5, 1923. Serial No. 643,536. 5 Claims. (Cl. 171—314.)

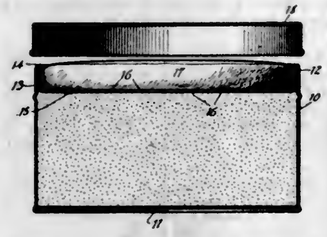
1. In a system of the character described, the combination of an alternating current generator, a battery,

an ignition circuit, a low ratio step-up transformer for impressing alternating current voltage from said generator on said ignition circuit, a high ratio step-up trans-



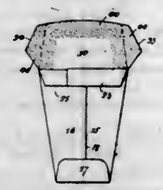
former for impressing ignition voltage on said ignition circuit from the battery, and means for charging said battery from said alternating current generator.

1,680,150. POWDER BOX. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed June 15, 1926. Serial No. 116,180. 2 Claims. (Cl. 132—82.)



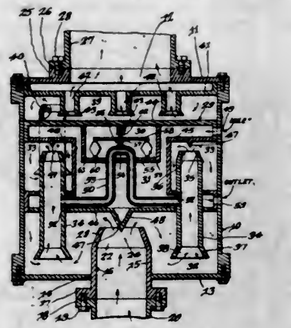
1. A powder box, including a body having an open upper end, a friction cover therefor adapted to telescopically fit over said upper end, a tray adapted to frictionally and telescopically fit within said upper open end, said tray having sifter openings, and an applicator puff adapted to be arranged within the tray and of a sufficient size to fill said tray, whereby when the friction cover is applied the face of the puff covers and closes the sifter openings.

1,680,151. POCKET SPUTUM CUP. JACOB KAUFFMAN, New York, N. Y. Filed Aug. 4, 1927. Serial No. 210,646. 3 Claims. (Cl. 4—259.)



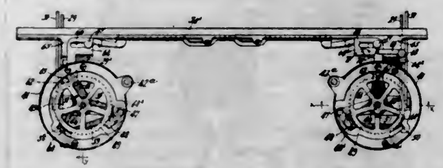
1. A pocket sputum cup, cut, bent and formed from a single sheet of material to provide a cup body open at one end, and a closure flap for said open end adapted to be closed and sealed when the cup is filled, said closure flap including side wings adapted to extend around the opposite side edges of the cup adjacent the open end for sealing engagement with the opposite face of the cup.

1,680,152. COMBINED FUEL VAPORIZER AND AUXILIARY AIR-INLET DEVICE. HERSCHEL S. KNIGHT, Indianapolis, Ind. Filed Aug. 9, 1926. Serial No. 128,218. 6 Claims. (Cl. 48—180.)



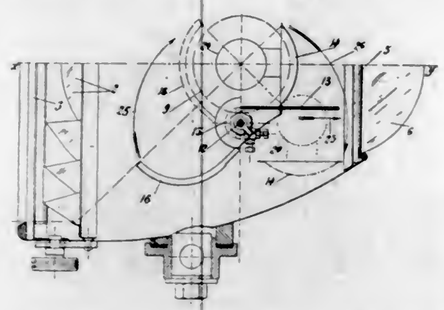
1. A device of the class described including an outer body defining an inlet and outlet opening, an inner body confined within the outer body and dividing the outer body into an expansion chamber, a mixing chamber, and a discharge chamber, said discharge chamber being in communication with said outlet opening said mixing chamber being in communication with said discharge chamber and said expansion chamber being in communication with the inlet opening, said inner body defining an air supply chamber and a heating chamber, means opening communication from the bottom portion of the expansion chamber to the top portion of the mixing chamber, and a member in communication with said means having thermostatically operated passage controlling means therein and defining a portion confined in and in communication with the air supply chamber and portions confined in the heating chamber, said member being adapted to deliver atmospheric air from the air supply chamber to the mixing chamber, and said heating chamber being adapted to receive exhaust gas from the exhaust manifold of an internal combustion engine and the exhaust gas being adapted to heat the air as delivered by the member to said means.

1,680,153. TYPEWRITING MACHINE. ALFRED G. F. KUNOWSKI, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed May 2, 1924. Serial No. 710,528. 12 Claims. (Cl. 197—151.)



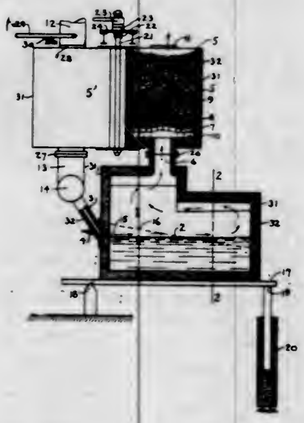
1. In a typewriting machine provided with a ribbon, a pair of spools for feeding said ribbon, a ratchet for each of said spools movable therewith, an oscillatory arm for each of said ratchets having a pawl thereon for imparting ribbon-feed movement to the corresponding ratchet, a detent for each of said ratchets for preventing reverse movement thereof, oscillatory cam-plates for said ratchets movable to cam said pawls and detents out of engagement with said ratchets, and a shift-bar connected to said cam-plates and manually movable from a position wherein both of said pawls and both of said detents are disengaged from said ratchets into selective positions wherein a selected one of said pawls and its corresponding detent are in operative position, while the other of said pawls and its corresponding detent are in inoperative position.

1,680,154. VEHICLE HEADLIGHT. GUSTAVE ALPHONSE MARIE LAMBLIN PARENT, Lille, France. Filed Dec. 12, 1925, Serial No. 74,959, and in France Apr. 7, 1925. 3 Claims. (Cl. 240—7.1.)



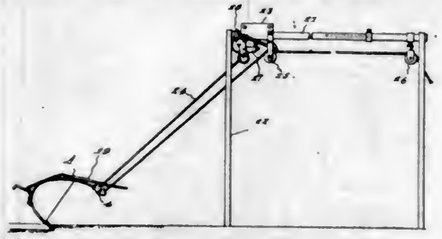
1. In a head lamp for motor cars and other vehicles, the following combination: a casing; a source of light arranged in the said casing; a front optical system arranged in the casing in front of the said source of light; a rear optical system arranged in the casing at the back of the said source of light; a movable coloured screen mounted in the casing; a movable reflector mounted in the casing; control means operating simultaneously the coloured screen and the reflector, so as to hold the coloured screen away from the source of light, and the reflector between the said source and the rear optical system in the position for travelling along an unobstructed path, whilst when the vehicle meets an obstacle, these control means bring the coloured screen between the source and the front optical system whereby the movable reflector leaves free the rear portion of the source of light and thus enabling the said source to light the rear optical system and to give a warning rearwards to any following vehicles, whilst at the same time lighting the road to be followed by the vehicle coming from the opposite direction.

1,680,155. FUEL-HEATED FURNACE AND CONVERTER USING PREHEATED AIR. OTTO LELLEP, Egypt, Pa., assignor to The International Nickel Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 29, 1923. Serial No. 71,496. 6 Claims. (Cl. 75—66.)



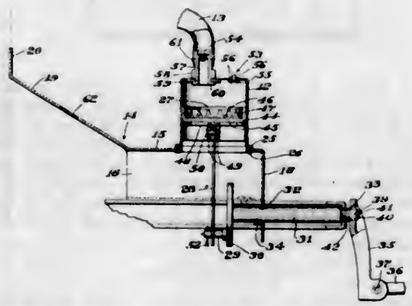
1. In the treatment of nickel-containing matte or metal, the step consisting in applying a pressure blast of preheated air directly to the molten metal.

1,680,156. SCRAPER. NELS MADSON, Coeur d'Alene, Idaho. Filed Dec. 27, 1926, Serial No. 157,379. Renewed June 2, 1928. 1 Claim. (Cl. 37—117.)



A scoop of the class described comprising a frame of substantially hook shape with its upper limb extending beyond the lower limb, a clevis at the end of the upper limb, teeth formed at the end of the lower limb, sheet metal fastened to the upper and lower portions of the frame to form the top and bottom of the scoop, sheet metal attached to the sides of the frame, doors for closing the rear of the scoop, hinges connecting the doors with side portions of the frame, a vertically movable locking bar at the rear of the scoop having projections thereon engaging portions of the doors to hold them in closed position, the free edges of the doors having notches therein for permitting the projections to pass through them during the opening movement of the doors and a lever pivoted to the top of the scoop and attached to the locking bar for adjusting the same.

1,680,157. PUMP. ISIDORE MARKS, Dorchester, Mass., assignor to Keystone Mfg. Co., Boston, Mass., a Corporation of Massachusetts. Filed Mar. 26, 1927. Serial No. 178,764. 5 Claims. (Cl. 230—33.)



1. A pump unit designated for toy trucks and comprising, in combination, a pump cylinder, pump operating mechanism including a rotary shaft and a sheet metal frame having a cylinder supporting portion, downwardly and outwardly extending side walls flanged for attachment to a support, and a downwardly extending front wall for supporting said pump operating shaft.

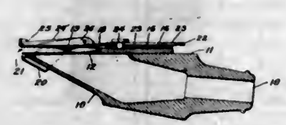
1,680,158. CUFF LINK. CHARLES I. MATSON, Chicago, Ill. Filed Sept. 2, 1927. Serial No. 217,160. 6 Claims. (Cl. 24—102.)

1. A cuff link comprising a button including two plates spaced from each other, pin members connecting said plates in said spaced relation, roller members carried by said pin members, a cord having one end portion arranged between the plates and passing over said rollers, means connecting said end portion between said plates, a second button comprising two plates arranged in opposed relation with respect to each other, pin members connecting said plates in said spaced relation, roller members on said pin members, the opposite end portion of said cord being arranged between said plates of said second button and passing over said second



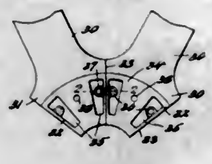
mentioned rollers, and means connecting said opposite end portion of said cord to one of the plates of said second button.

1,680,159. ATTACHMENT FOR MOUTHPIECES OF MUSICAL INSTRUMENTS. ROBERT JOHN MCVICKER, New York, N. Y. Filed May 16, 1925. Serial 30,821. 3 Claims. (Cl. 84—383.)



1. In combination with the mouthpiece of a musical instrument, a reed therefor, a ligature for clamping said reed to said mouthpiece, a cap, and means for holding said cap in an operative position over the end of said mouthpiece and for permitting the same to be moved with respect to said ligature to an inoperative position, and a cutting member carried by said cap for trimming the end of the reel when the cap is in operative position.

1,680,160. VEHICLE WHEEL. ALEXANDER MELDRUM, Syracuse, N. Y., assignor to Meldrum-Gabrielson Corporation, Syracuse, N. Y., a Corporation of New York. Filed Oct. 26, 1926. Serial No. 144,351. 5 Claims. (Cl. 301—85.)

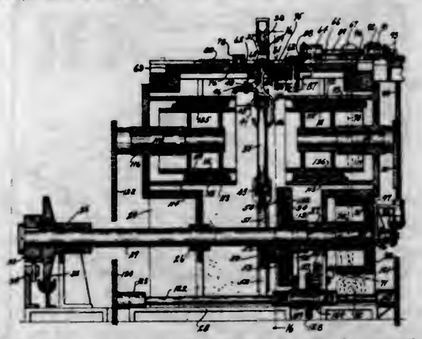


1. In a wheel, in combination, a plurality of radially disposed spokes each having a sector-like inner end forming a part of a hub, said ends each abutting two adjacent ends along meeting faces, and means passing diagonally through said faces to lock the spokes together.

1,680,161. ADDITION MATERIAL FOR FERROUS METALS. PAUL D. MERICA, New York, N. Y., and THOMAS H. WICKENDEN, Roselle, N. J., assignors to The International Nickel Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 10, 1924. Serial No. 698,284. 11 Claims. (Cl. 75—45.)

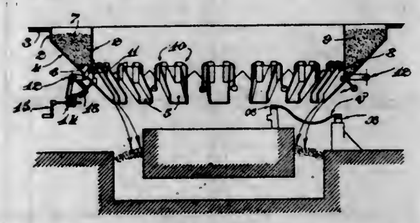
1. As an addition material for molten cast iron baths, metallic nickel having alloyed therewith another material sufficient in percentage to lower the melting point of the alloy to substantially that of cast iron.

1,680,162. TIRE-BUILDING APPARATUS. THOMAS MIDGLEY, Hampden, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Original application filed Apr. 7, 1921, Serial No. 459,330, now Patent No. 1,558,904. Divided and this application filed Mar. 5, 1924. Serial No. 696,954. 5 Claims. (Cl. 154—10.)



2. An apparatus of the class described comprising means for supporting a tire building core having a layer of tire building material mounted thereon, spaced annular members shaped to conform to the side portions of the core and adapted to press the material thereagainst, said members being adapted to receive and carry a bead filler in the annular space between them, and means adapted to shift the bead filler against the side of the core.

1,680,163. FEEDING APPARATUS FOR ELECTRIC FURNACES. PAUL LOUIS JOSEPH MIGUET, St.-Julien-de-Maurienne, France, assignor to Société Electrométallurgique de Montricher, St.-Julien-de-Maurienne, France. Original application filed July 8, 1926, Serial No. 121,189, and in France Nov. 4, 1925. Divided and this application filed Nov. 17, 1927. Serial No. 234,007. 1 Claim. (Cl. 221—118.)

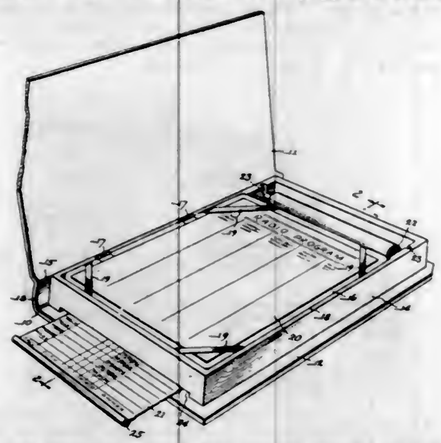


A feeding apparatus for an electric furnace said apparatus having in combination, a feed hopper, partitions dividing said hopper into compartments, arranged in groups the compartment of each of said groups containing the ones conducting mixtures and the others additions of nonconducting material, a shutter for controlling the discharge of each of said compartments means for ensuring the individual opening of the shutters corresponding to the compartments of the conducting mixtures, means for ensuring simultaneously the opening of the shutters corresponding to the compartments of the additions and a common feed chute for every group of compartments.

1,680,164. RADIO LOG AND PROGRAM DEVICE. THOMAS W. MONTROSE, Jersey City, N. J. Filed June 1, 1927. Serial No. 195,834. 3 Claims. (Cl. 40—85.)

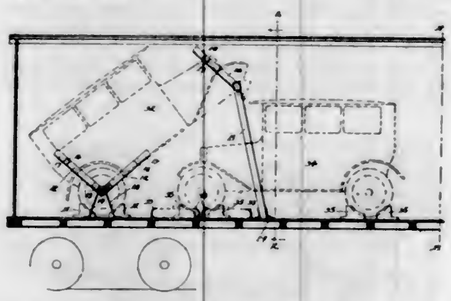
1. A device comprising a case, a hinged leaf within said case, sheet-retaining means on said leaf, a log-sheet, a roller arranged in said case, said log-sheet having one end connected with and normally wound on

said roller, and the opposite end of said sheet extending through a wall of said case to provide a free end, the free end of said sheet adapted to be gripped to unwind



the log sheet to present any desired portion of said log-sheet exteriorly of the case, and means connected with the roller adapted to rotate the roller to rewind the log-sheet thereon.

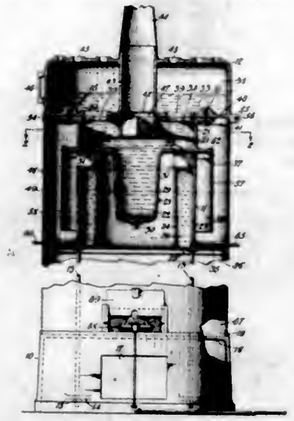
1,680,165. CAR LOADING. BENJAMIN R. MOORE, Detroit, Mich., assignor to Dodge Brothers, Inc., Hamtramck, Detroit, Mich., a Corporation of Maryland. Filed Sept. 24, 1927. Serial No. 221,750. 7 Claims. (Cl. 105—368.)



5. The combination with a railway box car, of means for sustaining a wheeled vehicle therein, comprising: chocks in which one pair of wheels of the vehicle are confined so that the vehicle may swing in a vertical plane about one axle; metal connectors one locked on the hub of each such wheel; thrust members connected in pairs with said connectors and extending therefrom divergently upward to the side wall of the car; a pair of struts and a pair of braces associated therewith, connected in supporting relation with the other axle of said vehicle, said struts being splayed outward and connected with the car body adjacent the junction of the floor and side walls, and said braces being splayed outward and connected with the car body adjacent the eaves, said struts and braces being respectively substantially tangent at their middles to imaginary cylinders having the first named axle as their axis.

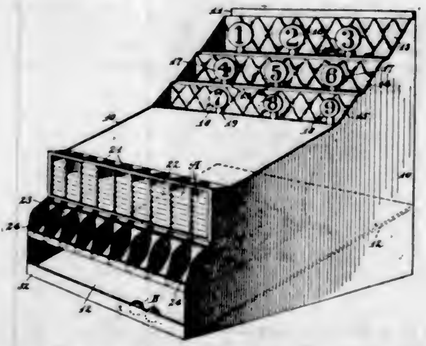
1,680,166. STEAM GENERATOR. LOUIS N. MOSS and JULIUS S. WESTON, Cedarhurst, N. Y. Filed Aug. 26, 1926. Serial No. 131,724. 5 Claims. (Cl. 122—161.)

1. In a steam generator, a combustion chamber, an interior section arranged above the combustion chamber, said interior section including heating walls forming intercommunicating water spaces and a heat chamber; said water spaces consisting of a water space surrounding said heat chamber, a water space above said heat chamber, and a water space extending into said heat chamber; relatively spaced inner and outer shells surrounding said interior section providing a tortuous passageway for the heat; a top section directly above said interior sec-



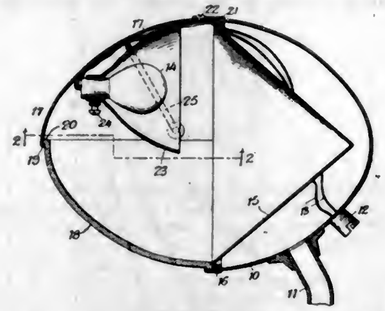
tion, said top section having a steam chamber and steam outlets, and water inlets establishing communication between the steam chamber and one of said water spaces, an uptake flue extending through said top section, radial flues establishing communication between said heat chamber and said passageway, and radial flues establishing communication between said passageway and said uptake flue.

1,680,167. AMUSEMENT DEVICE. ICHIRO NODA, Brooklyn, N. Y. Filed Jan. 6, 1928. Serial No. 244,937. 3 Claims. (Cl. 273—102.)



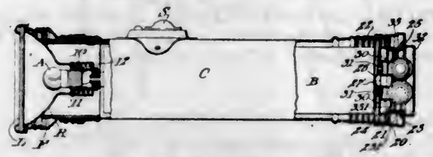
1. In an amusement apparatus, a cabinet including side walls, a forwardly and downwardly inclined bottom wall, a superposed horizontal partition, transversely spaced compartments disposed over the horizontal partition and each containing a vertical stack of articles constituting prizes, the lower ends of the compartments being spaced above the partition a distance equal to the depth of one of the articles, a delivery stall in front of each compartment and below the forward edge of the partition, transversely spaced targets mounted in the rear portion of said cabinet and projecting upwardly therefrom and a plunger operatively connected with each target and movable over the upper surface of the partition by the target when hit by a projectile for engaging with and effecting the ejection of the lowermost article of the stack into the delivery stall.

1,680,168. AUTOMOBILE HEADLIGHT. DAVID W. OHAVER, Rockville, Ind. Filed Jan. 6, 1927. Serial No. 159,324. 2 Claims. (Cl. 240—41.)



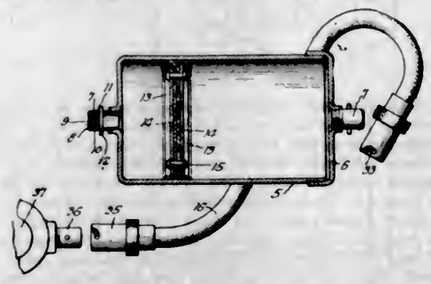
1. A headlight comprising an elongated oval-shaped casing, a transparent lens forming substantially one-fourth of said casing at the lower forward portion of the same, a conical reflector mounted opposite said lens in a position to project light through said lens, an auxiliary reflector mounted above said lens in opposed relation to said conical reflector, and a source of light in said auxiliary reflector adapted to have its rays projected onto the conical reflector and through the lens, said auxiliary reflector being pivotally supported on a transversely disposed pivot whereby the same may be swung about the same, substantially as set forth.

1,680,169. FLASH LIGHT. CHARLES OSEAN, Woodcliff, N. J., assignor to National Carbon Company, Inc., a Corporation of New York. Filed Mar. 23, 1922. Serial No. 546,090. 19 Claims. (Cl. 240—10.5.)



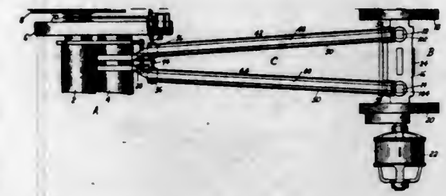
1. A closure for a flashlight casing comprising a tubular body having means for detachably coupling it to such casing, a spare lamp receptacle secured in said body and adapted to bear against a battery in said casing, and a removable cover for said receptacle.

1,680,170. LUBRICATING SYSTEM. EARL F. PIERCE, Chicago, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 6, 1923. Serial No. 655,919. 1 Claim. (Cl. 221—47.4.)



Means for supplying lubricant to a bearing, comprising a cylindrical container having a piston therein, and a coupling member at each end of said container, said coupling members each comprising means for making detachable connections with a third coupling member.

1,680,171. APPARATUS FOR USE IN RUBBER FACTORIES. OSCAR D. HOLLENBECK, Racine, Wis. Filed Sept. 22, 1923. Serial No. 664,229. 1 Claim. (Cl. 18—2.)



In an apparatus for the uses and purposes set forth, the combination of a warming mill for rubber stock, comprising heated rolls by which the rubber is sheeted and warmed so as to be plastic for subsequent operations, a plurality of conveyor belts, a direct driving connection for one of said conveyor belts driven from one of the rolls of the warming mill to drive the conveyor belts at the same speed as the mill, a flexible driving connection between said belts, and means to remove strips of rubber from the mill, the strips being conducted by said conveyors to points where they are automatically delivered as warmed, plastic rubber to separated locations for subsequent processing.

1,680,172. POLE. CHARLES F. PINE, Oklahoma City, Okla. Filed July 8, 1927. Serial No. 204,359. 1 Claim. (Cl. 189—23.)

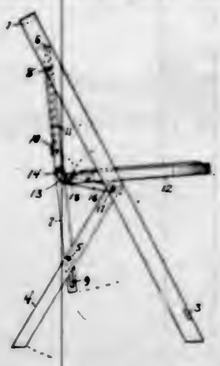


A device of the character described comprising a standard tapering from one end to the opposite end, tapering flanges projecting laterally from the edge of the standards and formed integrally therewith, a base member formed integrally with the tapering standard and located at substantially right angles to the said standard, said flanges having portions disposed in flat contact with the base member and merging into and integrally connected with portions of the base member, said flanges, standard and base member being formed of a single sheet of metal, the portions of the flanges where connected to the base providing a reinforcing means between the base member, the standard and the flanges.

1,680,173. COLLAPSIBLE CHAIR. WILLIAM C. RASTETTER, Fort Wayne, Ind. Filed Nov. 17, 1924. Serial No. 750,370. 4 Claims. (Cl. 155—142.)

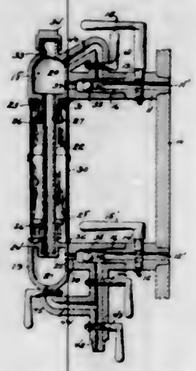
4. A collapsible chair including a frame having spaced legs and a pair of folding legs in pivotal connection therewith, pendant arms pivoted in the frame; means

in connection with the folding legs and the pendant arms operable to limit outward swinging movement of said folding legs; toggle members having connected relation



with said frame and swinging arms; and a folding seat in connection with said toggle members and having actuating relation therewith.

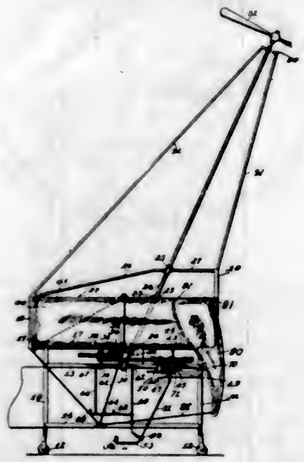
1,680,174. WATER GAUGE. JOHN RHODES and HOMER RHODES, Legrand, Iowa. Filed Jan. 25, 1926. Serial No. 83,737. 1 Claim. (Cl. 73—54.)



In a device of the class described, a water level indicating tube, valved means for connecting the upper end of the tube with a boiler, and means for connecting the lower end of the tube with the boiler, said means last named including a bracket having a main bore permitting of the flow of fluid directly between the tube and boiler, an automatically operated valve closing this bore under boiler pressure, if the tube is fractured, this valve being normally influenced uniformly on all portions of its surface by boiler pressure, a manually controlled valve controlling the same bore, and a valve controlled by-pass around the automatically operated valve and communicating directly with the water level indicating tube at a point below the level of the main bore and independently thereof, a discharge connection communicating with the by-pass and with said main bore, a valve in the by-pass adjacent to the main bore, and an additional valve in the discharge connection.

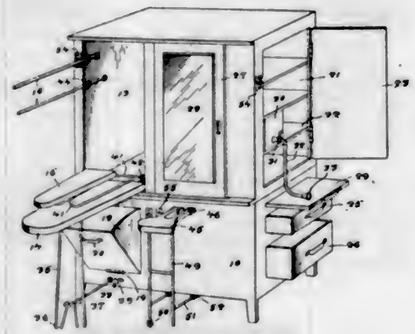
1,680,175. SOARING HELICOPTER. ABRAHAM RUDY, Washington, D. C. Filed May 14, 1927. Serial No. 191,361. 8 Claims. (Cl. 244—15.)

1. A soaring helicopter comprising a frame arranged in a vertical plane, a propeller shaft rotatably mounted on the frame, a sprocket mounted for rotation on the frame and provided with radially projecting lugs, a pair of levers pivotally mounted on said frame and having a short arm adapted to impactly coact with the lugs for causing rotation of the sprocket, the long arms of



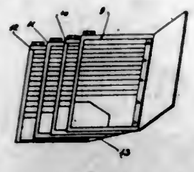
the levers having foot engaging means and adapted to be rocked by the feet of the operator of the helicopter, and means operatively connecting the sprocket and shaft for causing rotation of the shaft.

1,680,176. LAUNDRY CABINET. CHARLES WILLIAM SCHLEIER, Cleveland, Ohio. Filed July 28, 1926. Serial No. 125,504. 1 Claim. (Cl. 68—10.)



In combination, a cabinet having a bottom wall and an opening in one side, a wall below said opening, a transverse rod upon said bottom wall, an ironing board pivoted adjacent its inner end on said rod and adapted to be arranged vertically within the cabinet when not in use to be swung to a horizontal operative position outside of the cabinet, spaced supporting limbs pivoted on the under side of said board near the outer end thereof, the lower ends of said legs being adapted to engage the floor when the board is in operative position, said legs being formed at their lower ends with an upwardly directed medially disposed reentrant loop, a brace pivoted at one end to said loop and at its other end adapted to engage said wall, said brace and legs being adapted to fold into substantially parallelism with the board within the cabinet.

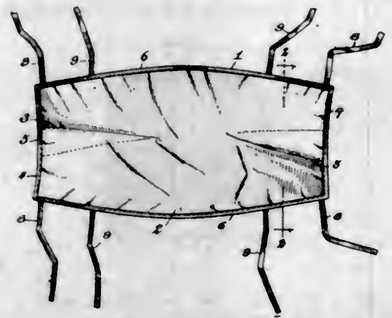
1,680,177. RECORD FILE. ARTHUR SCHWARZ, Vienna, Austria. Filed Apr. 29, 1926, Serial No. 105,559, and in Austria Jan. 23, 1926. 6 Claims. (Cl. 129—34.)



1. A record file consisting of a series of pockets overlapping at their top edges, and means for securing the pockets along one lateral edge, the pockets being closed at the other edges and having their openings at the overlapping edges.

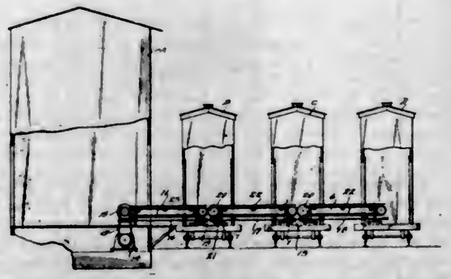
3. A record file consisting of a plurality of groups of pockets, and means for uniting the same in such a manner, that each group exposes to view a part of the group next underneath.

1,680,178. INFANT-NAPKIN PROTECTOR. FLORA M. SHAFER, Albany, N. Y. Filed Jan. 19, 1927. Serial No. 162,095. 2 Claims. (Cl. 128—284.)



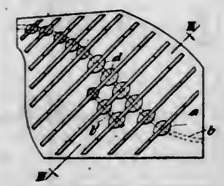
1. An infant's napkin protector comprising a body of water proof material of substantially rectangular form, the body being narrowest at the ends and widening from the ends to the center thereof forming oppositely disposed and outwardly extending oval side edges when spread out in plan view and providing a baggy or hammock formation extending from end to end and side to side of the body when the opposite edges are parallel and all in a single plane, and means for uniting the lateral side edges of the body or blank to secure the garment upon the body of the infant.

1,680,179. LOADING MACHINE. WALTER FRANK SHELLEY, Wabuska, Nev. Filed Oct. 27, 1924. Serial No. 746,237. 6 Claims. (Cl. 198—92.)



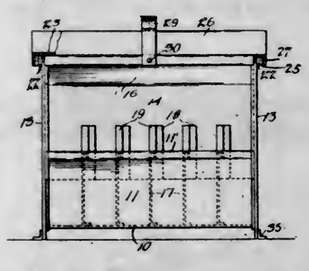
1. In an apparatus of the character described, the combination of a plurality of conveyors operatively connected end-to-end to form a series, each conveyor provided with a pair of tracks in end-to-end alignment with the tracks on the preceding conveyor the last conveyor in succession adapted to be lifted onto the tracks of the preceding line of conveyors and moved thereon when no longer in use.

1,680,180. SOUNDING BOARD FOR PIANOS. WILLIAM HENRY MERITON SIEGEL, Stade, near Hamburg, Germany. Filed July 5, 1924, Serial No. 724,329, and in Germany May 3, 1924. 4 Claims. (Cl. 84—192.)



1. A sound board for use in pianos comprising a wooden board, wooden ribs on one face of said board, and struts having a flat face firmly attached to the sound board just in the rear of the usual bridge, said struts having a straight flat side edge firmly attached to a wooden rib.

1,680,181. CHICKEN FEEDER. JOHN D. SMITH, Tipton, Ind. Filed Sept. 14, 1926. Serial No. 135,417. 2 Claims. (Cl. 119—52.)

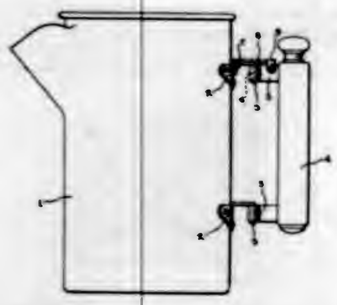


1. A poultry feeder comprising a trough, a hopper supported above said trough in spaced relation to the bottom of the same and providing a feed opening between the sides of the trough and the hopper, substantially triangular separator plates disposed transversely between the sides of the trough and the hopper and dividing said feed openings into compartments, said separator plates having their upper edges bent over to provide reinforcing flanges between the upper edges of the trough and the sides of the hopper, said separator plates having lateral flanges secured to the hopper and having their upper portions cut away to accommodate the upper edges of the trough, a top pivotally mounted on one side of the hopper, a latch at the opposite side of the hopper for holding the top in closed position, and reinforcing bars for each end of said top, said reinforcing bars having extensions projecting beyond the pivotally supported side of the top, said extensions being turned inwardly to engage a portion of the feeder for limiting the pivotal movement of the top, substantially as set forth.

1,680,182. DETACHABLE HANDLE FOR RECEPTACLES. WILLIAM S. STOCKTON, Roanoke, Va. Filed June 26, 1926. Serial No. 118,708. 1 Claim. (Cl. 53—3.)

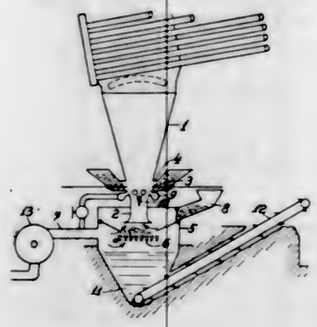
A receptacle having spaced brackets provided with pendent terminal arms paralleling the receptacle, and a detachable handle having lugs provided with sockets en-

gageable with said pendent arms upon upward movement of the handle with respect to the receptacle, one of the lugs of the handle being provided with a latch having a pivotal connection with the lug to be swung from a posi-



tion at an angle with the lug into parallelism with the latter, said latch having a downturned extremity engageable in a slot in the bracket with which the latch-carried lug is connected.

1,680,183. FUEL-DUST FURNACE. GÉZA SZIKLA and ARTHUR ROZINEK, Budapest, Hungary. Filed Jan. 24, 1925, Serial No. 4,448, and in Hungary Feb. 4, 1924. 4 Claims. (Cl. 110—28.)



1. A furnace for utilizing powdered fuel and the like, in a rising current of gaseous fluid, comprising, an upright shaft having an open lower end and of upwardly increasing cross sectional area, a chamber positioned below the lower end of the shaft and having a cross sectional area greater than that of the open lower end, a grate in the chamber positioned to receive material falling through the lower end of the shaft, and an inlet for gaseous fluid in the chamber.

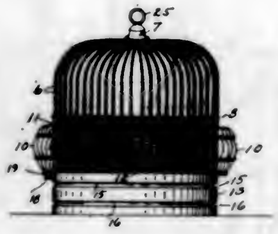
1,680,184. BIRD CAGE. JOHN H. VIEWEGH, Indianapolis, Ind. Filed Feb. 21, 1927. Serial No. 169,733. 4 Claims. (Cl. 119—17.)

1. A bird cage having a top centrally located member the lower sides of the cage being formed of sheet metal having an annular corrugation near its upper edge and having a wire ring in said corrugation and the upper sides and top of the cage being formed out of wires which extend from the inner side of the wire ring in the corrugation to the top centrally located member to both of which the wires are fastened leaving a space between the wires of the top and sheet metal sides, and said cage having other spacing and fastening means for the wires of the side and top between the wire ring and top member,



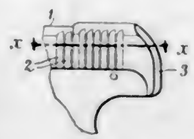
said cage also having a belt of woven wire above and next to the sheet metal side member sealed in the space between the metal side member and wires of the top.

1,680,185. METAL-BASE BIRD CAGE. JOHN H. VIEWEGH, Indianapolis, Ind. Filed May 25, 1927. Serial No. 194,176. 6 Claims. (Cl. 119—17.)



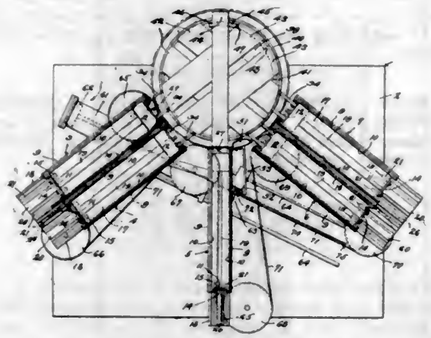
1. In a bird cage, the combination with a spaced apart wire superstructure having an outside horizontal wire ring attached to the outer side thereof near its lower end, of a sheet metal base member comprising a drum and a bottom water tight closure for the drum, said drum having an inside circular corrugation near its open end, the wire superstructure being inserted in the drum with its horizontal wire ring resting upon the corrugation, and means for removably securing the ring against the corrugation.

1,680,186. AUTOMATIC FIREARM. RUDOLF VON FROMMER, Budapest, Hungary. Filed Apr. 26, 1924, Serial No. 709,202, and in Austria May 29, 1923. 3 Claims. (Cl. 42—3.)



3. As a new article of manufacture, an inverted channel-shaped cap adapted to be attached to a firearm for concealing the hammer of the latter, the inner surfaces of the sides of the cap being provided with corrugations adapted to cooperate with complementary corrugations on the breech of a weapon, said cap having a recess to receive a fastening bolt on the weapon, said cap also having an aperture adjacent the recess to permit said bolt to be actuated.

1,680,187. FEEDING MECHANISM. ALBERT L. WATSON and GEORGE L. BARDEN, Penn Yan, N. Y. Filed Oct. 31, 1924. Serial No. 747,007. 11 Claims. (Cl. 1—13.6.)



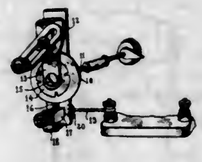
1. In a device of the class described, a hoop-supporting table having an upstanding rim within which a hoop is adapted to be placed, chutes disposed in substantially radial relation to the table, feeders movable in the chutes, and means for actuating the feeders.

1,680,188. FLASH LIGHT. FREDERICK L. WEBER, Oakland, Calif., assignor to National Carbon Company, Inc., New York, N. Y., a Corporation of New York. Filed July 25, 1921. Serial No. 487,425. 12 Claims. (Cl. 240—10.5.)



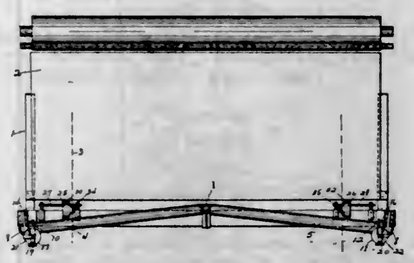
1. A flashlight comprising a cylindrical casing substantially devoid of any protuberances on the outer side thereof, a battery arranged therein and provided with a terminal at each end, a lamp at one end of said casing adapted to contact with one of said terminals, an insulated conductor provided on the inner side of said casing and connected to said lamp, a cap having a threaded engagement with the other end of said casing, a lamp storage receptacle on the inner end of said cap arranged to extend into said casing and contact with said conductor, said receptacle being formed of an electric conducting material and insulated from said cap, and electrical connections between said receptacle and the other of said terminals, said receptacle being cylindrical and provided with a cutaway portion whereby upon the rotation of the cap alternate engagement and disengagement between said receptacle and conductor will be effected.

1,680,189. CONTROLLABLE RESISTANCE DEVICE. HENRY J. WIEGAND, Milwaukee, and HORACE N. PACKARD, Wauwatosa, Wis., assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 2, 1923. Serial No. 672,329. 3 Claims. (Cl. 201—76.)



3. In a variable resistance device, the combination with relatively movable resistor and contactor elements each comprising relatively soft material, of an insulating support for said resistor to co-act with said contactor, said support having continuous grooves, to contain material of said resistor, and intermediate ridges to effect abrasion of said contactor, said grooves and ridges extending in directions having a component parallel to the direction of relative movement of said resistor and contactor, and also having a component angularly related to such direction.

1,680,190. WEB-GUIDING MECHANISM. GEORGE F. WIKLE, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Apr. 17, 1924. Serial No. 707,157. 1 Claim. (Cl. 271—2.6.)

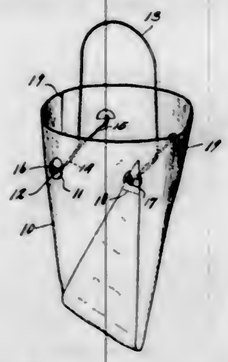


A device of the character described comprising two independently rotatable angularly positioned rolls over which a moving web is adapted to pass, independently electrically operated brake means associated with each of said rolls, actuators, pivoted for movement in the direction of web travel, positioned closely adjacent said rolls and adjacent the edges of the web at a point where the latter are unsupported, and switches mounted in said actuators and operable upon movement of the actuators about their pivots in the direction of web travel to actuate said brake means.

1,680,191. COLLAPSIBLE BUCKET. PEARL R. WOOLF, Oklahoma City, Okla. Filed Apr. 3, 1926. Serial No. 99,645. 1 Claim. (Cl. 229—53.)

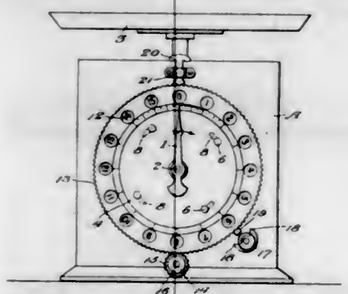
A collapsible bucket of the character described having a conical body formed of water-proof paper, the body being adapted to be folded upon itself and flattened for transportation, the body at four points being cut away in a semi-circle to form ears which are bent downward upon the body, a U-shaped bail, the extremities of the bail being extended laterally in opposite directions to

provide two parallel portions, the parallel portions at their extremities extending through the body and through said ears and said extremities being upwardly turned



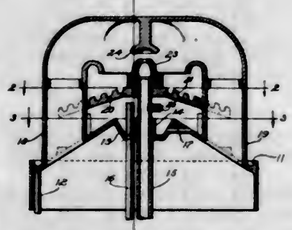
to form hooks, the transversely extending parallel portions of the bail acting to hold the mouth of the bucket in a distended condition.

1,680,192. WEIGHING MECHANISM. GEORGE L. ZUCKER, East Orange, N. J. Filed July 28, 1922. Serial No. 578,237. 14 Claims. (Cl. 265—68.)



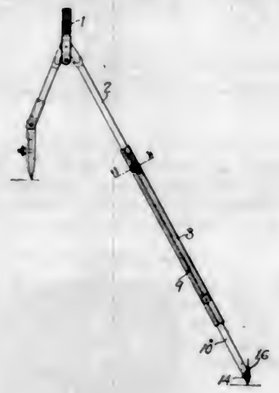
1. A weighing mechanism including a resettable dial having a plurality of sets of indications thereon progressively in opposite directions.

1,680,193. OIL BURNER. VITO AIELLO, White Plains, N. Y. Filed May 15, 1926. Serial No. 109,385. 3 Claims. (Cl. 158—91.)



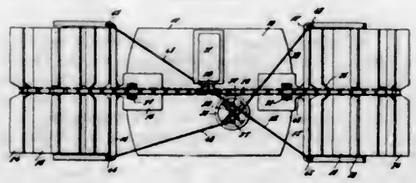
1. An oil burner which comprises a spill plate, substantially conical in shape, having a central cup and a peripheral groove, a discharge pipe connected to said groove, a substantially conical shaped burner plate disposed above the spill plate, an oil feeding pipe leading to the center of the burner plate and adapted to feed oil to the top of the burner plate and means between the two plates for permitting oil to flow from the oil feeding pipe into the cup of the spill plate whereby the under surface of the burner plate may be preliminarily heated.

1,680,194. DRAWING COMPASS HAVING A LENGTHENING DEVICE OF LEGS. KAZUB AKASHI, Tokyo, Japan. Filed July 16, 1923. Serial No. 651,981. 1 Claim. (Cl. 33—149.)



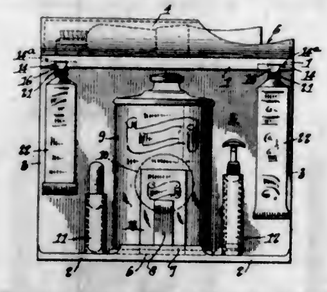
A drawing compass including a pin leg and a drawing instrument leg pivotally connected together, said pin leg being of uniform cross section throughout substantially its entire length, a split extension member tubular throughout its length and slidably mounted on the pin leg, a pin leg extension of the same cross section as the pin leg, extending into the tubular member and adjustable axially relatively to the latter, and screws engaging the pin leg and pin leg extension extending through the split and the tubular member and adjustably clamping the tubular member to the pin leg and the pin leg extension.

1,680,195. LOGGING BOAT. EDWARD B. ALLEN, Dunnellon, Fla. Filed Oct. 28, 1927. Serial No. 229,384. 1 Claim. (Cl. 115—19.)



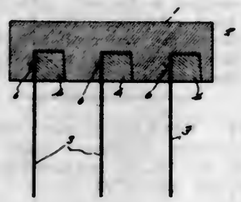
A boat, comprising a buoyant central section, carrying a power unit, a forward and rear pivoted buoyant drum with peripheral transverse paddles, a sprocket chain centrally of the paddles, driven by the power unit, and a steering post carrying diametrical crank arms linked to the opposite sides of each drum.

1,680,196. TOILET CASE. EARL C. AUSTIN, Bluefield, W. Va. Filed Sept. 13, 1927. Serial No. 219,303. 12 Claims. (Cl. 132—79.)



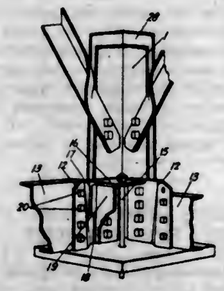
1. A toilet case having upper and lower ledges formed with article-holding pockets and spaced by a wall forming the back of the case, one of said ledges having recesses therein seating tube-holding heads.

1,680,197. BARN BROOM. RAYMOND F. BATEMAN, King City, Mo. Filed Apr. 13, 1927. Serial No. 183,513. 1 Claim. (Cl. 15—200.)



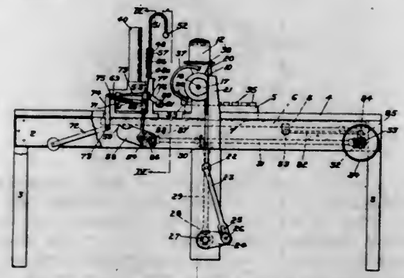
A broom of the class described comprising a head having grooves therein, a plurality of spring metal strips of L-shape having their shorter arms seated in the grooves, each strip having a tongue struck therefrom which is adapted to be pressed into the side of the groove and a filling piece inserted in each groove and bearing on the shorter arms for holding the spring metal strips therein.

1,680,198. DERRICK STRUCTURE FOR OIL, GAS, AND ARTESIAN WELLS. GORDON BATTELLE and HARRY M. RUNKLE, Columbus, Ohio, and WILLIAM B. TOBIN, Los Angeles, Calif., assignors to The International Derrick & Equipment Company, Columbus, Ohio, a Corporation of Ohio. Original application filed Oct. 15, 1921, Serial No. 507,822. Divided and this application filed Nov. 3, 1922. Serial No. 598,906. 6 Claims. (Cl. 189—13.)



1. Derrick structure comprising leg members formed in sections, three spaced girts, braces intersecting adjacent the middle girt, said braces terminating at their upper ends at the upper of said girts and at their lower ends immediately above the lower of said girts and a strap extending vertically from the lower girt to the middle girt and dividing the angle produced by said braces below their points of intersection.

1,680,199. CAPPING MECHANISM. CHRISTIAN N. BERGMANN, Pittsburgh, Pa., assignor to Bergmann Packaging Machine Company, Pittsburgh, Pa., a Corporation of Delaware. Original application filed Jan. 17, 1923, Serial No. 613,235. Divided and this application filed Jan. 19, 1923. Serial No. 613,595. 7 Claims. (Cl. 226—92.)



7. In a package capping machine, the combination of a supporting frame having a longitudinal trackway, an intermittently movable package carrier thereon having pockets for open top packages, a superimposed cover magazine, means for selecting a cover therefrom, means for placing it within one of said packages, means for actuating the carrier and said cover placing means, and means adapted to be engaged by the carrier for regulating the operation of the cover selecting means.

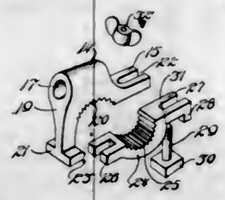
1,680,200. ROAD MAP. ANTONIO BLANCAFORT, La Garriga, Barcelona, Spain. Filed Dec. 18, 1926. Serial No. 155,623. 3 Claims. (Cl. 116—29.)



1. In an automatic road map, a casing, a route strip bearing an itinerary of the route carried by the casing, an indicating pointer movable along the itinerary, spaced sprocket gears supported in the ends of the casing, a sprocket chain trained about the gears and supporting the said pointer at one of its stretches, a rotary shaft extended into the casing, worms carried thereby, a rocking support supported by the casing, worm gears mounted thereon for engagement selectively with the worms upon the said shaft, sprocket gears carried by the worm

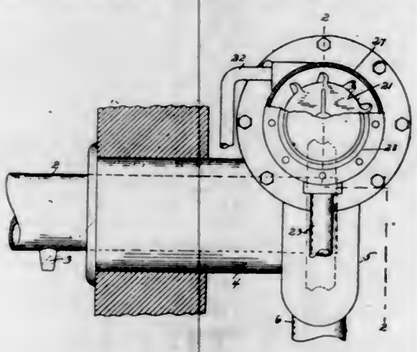
gears and over which the other stretch of the chain is trained, and means for rocking the said supporting member whereby to selectively engage either worm gear with its worm to change the course of travel of the said sprocket chain.

1,680,201. BATTERY LEAD CONNECTION OR CLAMP. JOHN P. BIHL and HENRY J. BIHL, Newport, Ky. Filed Apr. 22, 1926. Serial No. 103,991. 2 Claims. (Cl. 173—259.1.)



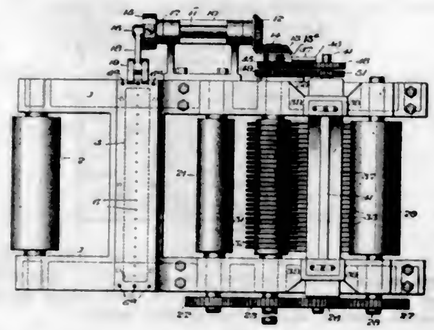
1. A battery lead connection or clamp comprising, in combination, a pair of independent separable jaw-members each of the latter having internally serrated or toothed arc-shape main-portions, one of said jaw-members being the main one that is provided at one end with a laterally-projecting T-shape arm and a socket for the securing-end of the lead wire or cable and at its other end provided with an open slot or recess, and the other one of said jaw-members being a locking one that is provided with an open slot or recess at one end for co-engagement with the said T-shape arm of the main jaw-member and at its other end provided with an open slot or recess that coincides and registers, in use, with the open slot or recess of the said main jaw-member, and a square-headed bolt that is adapted to engage the said registering open-slotted ends of the main and locking jaw-members and provided with a winged fastening-nut, substantially as shown and described.

1,680,202. BOILER-TUBE CLEANER. FRANK BOWERS, Detroit, Mich., assignor, by mesne assignments, to Diamond Power Specialty Corporation, Detroit, Mich., a Corporation of Michigan. Filed Nov. 21, 1918. Serial No. 263,477. 4 Claims. (Cl. 122—392.)



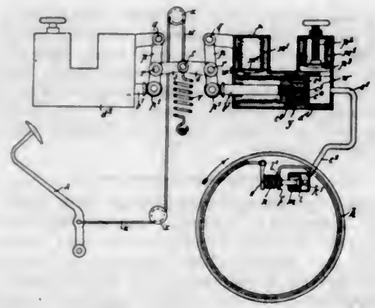
1. The combination with a boiler tube cleaner, of a casing into which an extremity of said cleaner is extended, drive mechanism for the cleaner within said casing, a housing having screw-threaded engagement with said casing, a pair of aligned shafts within said housing, a turbine upon one of said shafts, a speed governor for the turbine upon the same shaft, a planetary drive connection between said shaft and the aligned shaft, and a drive connection between the latter shaft and the mechanism in said casing.

1,680,203. CREPE AND METHOD OF AND APPARATUS FOR MAKING THE SAME. WILLIAM H. CANNARD, Green Bay, Wis. Filed Apr. 7, 1924. Serial No. 704,867. 38 Claims. (Cl. 92—69.)



1. The hereindescribed method of producing crepe which includes the steps of moving a web lengthwise and, while in motion, forming corrugations therein in one direction, subjecting the corrugations to pressure to produce crinkles in the web, producing corrugations in the web which extend in a direction relatively different from that of the first-mentioned corrugations, and subjecting such corrugations to pressure to produce crinkles in the web.

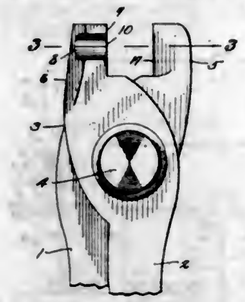
1,680,204. HYDRAULIC BRAKING APPARATUS. MAURICE CHARLES, Courbevoie, France. Filed July 6, 1926, Serial No. 120,728, and in France July 16, 1925. 9 Claims. (Cl. 188—170.)



5. A hydraulic braking system comprising in combination, a brake drum, a brake disposed within said brake drum, a spring carried by said brake for moving it into engagement with the inner periphery of said drum, a piston pump receiver opposing the action of said spring, a piston pump generator, a conduit interconnecting said generator and said receiver, an incompressible fluid in said conduit, fluid tight bellows disposed in said generator and receiver, a toggle associated with the piston in said generator, a brake pedal for operating said toggle, and a spring adapted to oppose the movement of said toggle.

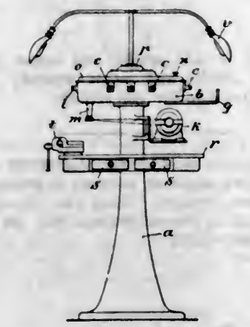
1,680,205. TONGS. JOHN J. CLINE, Alix, Ark. Filed Nov. 7, 1927. Serial No. 231,612. 1 Claim. (Cl. 81—51.)

A tool for loosening battery terminals, comprising pivotally connected levers provided with cooperating jaws, one jaw having a substantially flat surface, and having grooves which converge and intersect said surface, one groove being adapted for the reception of the end of the clamping bolt in a battery terminal, the other groove being adapted for the reception of one corner of the nut on the bolt, the grooves being of like construc-



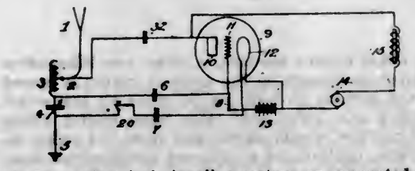
tion to provide for a reversal of the tool, the other jaw having a chisel edge for acquiring a hold on the inclined surface of one arm of a battery terminal.

1,680,206. DENTAL ENGINE. WALTER CORDES, Gotha, Germany. Filed Nov. 15, 1926, Serial No. 148,583, and in Germany Jan. 2, 1926. 8 Claims. (Cl. 32—5.)



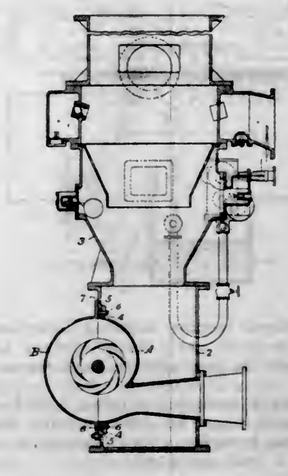
1. A dental engine, comprising in combination with an upright, a driving engine on said upright, a gear box on said upright above said driving engine, a plurality of spindles in said gear box, means for rotating said spindles from said engine, each of said spindles having means for holding a tool for grinding, cleaning, finishing, or polishing, and a plurality of selective means, one for each spindle for communicating to said spindles a rotating movement, whereby any one of the spindles may be operated singly or all may be operated simultaneously.

1,680,207. RADIO SIGNALING SYSTEM. LEE DE FOREST and CHARLES V. LOGWOOD, New York, N. Y., assignors to De Forest Radio Telephone and Telegraph Company, New York, N. Y., a Corporation of Delaware. Filed May 23, 1916. Serial No. 99,283. 14 Claims. (Cl. 250—8.)



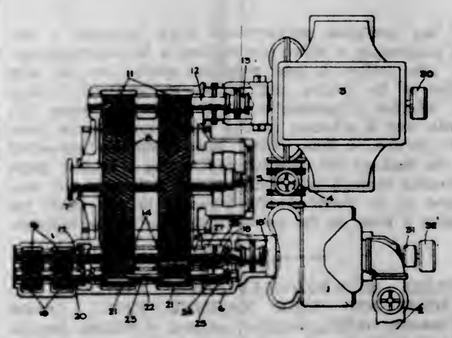
9. In an electrical signaling system, an evacuated vessel containing two cold and one hot electrodes, a circuit including an inductance connecting two cold electrodes, a connection from said inductance to said hot electrode, and a plurality of condensers included in said connection.

1,680,208. CENTRIFUGAL PUMP. RAYMOND N. EHRHART, Pittsburgh, Pa., assignor to Elliott Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 3, 1927. Serial No. 188,469. 6 Claims. (Cl. 103—103.)



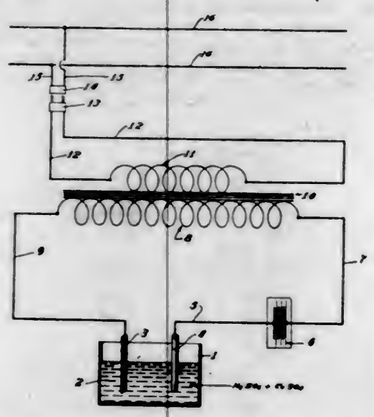
1. A centrifugal pump, comprising a housing receiving the water supply for said pump, and a volute and discharge member for said pump comprising separable sections removably secured to said housing, one of said sections being located within the housing and the other of said sections being exteriorly secured to said housing.

1,680,209. SHIP-PROPULSION SYSTEM. WILLIAM L. R. EMMET, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 30, 1926. Serial No. 132,642. 8 Claims. (Cl. 74—59.)



1. In combination, a plurality of rotatable clutch elements, means for exerting a force upon the elements which increases with their departure from relative angular correspondence in position to synchronize said elements, and means for operating said elements.

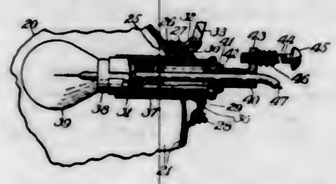
1,680,210. RECTIFIER ELECTROLYTE. EDGAR W. ENGLE, Lake Forest, Ill., assignor to Fansteel Products Company, Inc., North Chicago, Ill., a Corporation of New York. Filed Jan. 7, 1927. Serial No. 159,523. 5 Claims. (Cl. 175—318.)



1. An electrolytic rectifier including a tantalum electrode, a lead electrode and a dilute sulphuric acid electrolyte to which has been added a small amount of cobalt sulphate.

3. In electrolytic apparatus including a lead electrode in sulphuric acid, means for preventing the decomposition of the lead including a small amount of a cobalt salt dissolved in said electrolyte.

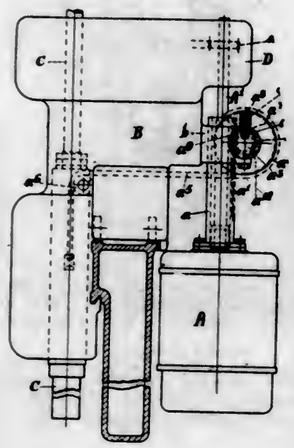
1,680,211. ANTIGLARE MOTOR-VEHICLE LAMP. JOHN F. FARMER, Indianapolis, Ind. Filed Nov. 30, 1925. Serial No. 72,372. 2 Claims. (Cl. 240—41.)



1. An anti-glare motor-vehicle lamp including a casing comprising a main portion and a forwardly-projecting side frame, a side reflector secured in the side frame of the casing and having an aperture therein, the reflector comprising a parabolic portion facing forwardly and a reflexing portion facing towards the parabolic portion, a lamp holder base adjustably supported on the back of the reflector and having a tubular guide extending through said aperture, and a lamp socket supported to be longitudinally adjusted in the guide for holding a lamp in the parabolic portion of the reflector.

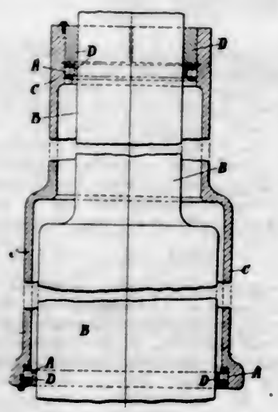
1,680,212. ELECTRICALLY-DRIVEN DRILLING MACHINE AND LIKE MACHINE TOOL. GEORGE FEATHER, Halifax, England, assignor to William Asquith Limited, Halifax, England. Filed Feb. 17, 1926, Serial No. 88,876, and in Great Britain Feb. 24, 1925. 5 Claims. (Cl. 77—28.)

1. A machine of the character described including a rotary vertical spindle slidably axially upwardly and downwardly, an electric motor having its armature shaft parallel with the spindle, said motor being movable upwardly and downwardly axially of its shaft, an operative connection between said spindle and shaft for driving the spindle from the shaft in the different relative



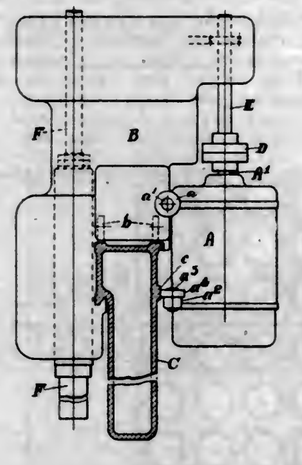
vertical positions of said spindle and motor, and means connecting said spindle and motor whereby the motor serves as a counterpoise for the spindle.

1,680,213. RADIAL-DRILLING MACHINE. GEORGE FEATHER, Halifax, England, assignor to William Asquith Limited, Halifax, England. Filed Feb. 17, 1926, Serial No. 88,877, and in Great Britain Feb. 24, 1925. 1 Claim. (Cl. 308—231.)



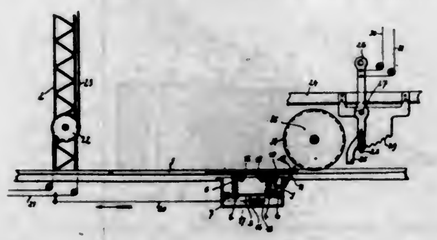
In a radial drilling machine, a pillar, two independent rings fitted frictionally on the pillar at vertically spaced points and movable vertically on the pillar, an arm socket surrounding said pillar, said rings being located within the end portions of said socket, said rings and socket being movable vertically as a unit, and anti-frictional bearings between said socket and rings to permit the socket to rotate freely around said rings.

1,680,214. ELECTRICALLY-DRIVEN RADIAL DRILL. GEORGE FEATHER, Halifax, England, assignor to William Asquith Limited, Halifax, England. Filed Feb. 17, 1926, Serial No. 88,879, and in Great Britain Feb. 24, 1925. 4 Claims. (Cl. 77—28.)



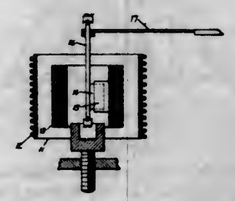
1. In a radial drill, a horizontal arm, a carriage movable thereon, a drill spindle mounted in said carriage at one side of said arm, an electric motor at the opposite side of said arm hinged to said carriage to swing downwardly by gravity toward said arm, the arm having a guiding surface and the motor having a portion movable along said surface, and an operative connection between said motor and spindle.

1,680,215. DEVICE FOR STOPPING RAILROAD VEHICLES INDEPENDENTLY OF THE DRIVER. PAUL FRIEDEL, Bohlen, Germany. Filed July 15, 1926, Serial No. 122,650, and in Germany June 14, 1926. 2 Claims. (Cl. 246—181.)



1. In a device for stopping railroad vehicles independently of the driver, the combination with a signal and brake operating lever on the vehicle and an actuating arm mounted on the track, of a resiliently supported platform adapted to be depressed by engagement with the wheels of the vehicle and to prepare said arm for engagement with the operating lever when thus depressed, a horizontally adjustable supporting plate for said platform, bolts connected to the platform and guided in said plate, supporting springs arranged on the bolts so as to bear against the plate and support the platform, springs tending to hold the platform against the track rail in operative position, and a rope acting on the supporting plate for shifting the latter and the platform out of operative position.

1,680,216. ELECTROMAGNETIC INSTRUMENT. WILHELM HERZOG, Charlottenburg, Germany, assignor to General Electric Company, a Corporation of New York. Filed Apr. 12, 1927, Serial No. 183,221, and in Germany July 10, 1926. 8 Claims. (Cl. 171—95.)



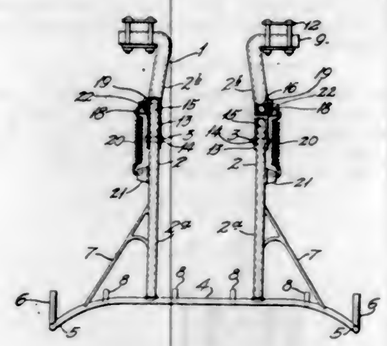
8. An electromagnetic measuring instrument of the deflection type provided with hysteresis error compensating means, said compensating means being adjustable for varying the magnitude of such compensation at all deflections and for varying the relative magnitude of such compensation at different deflections.

1,680,217. RADIO ALARM SIGNAL SYSTEM. RANDALL M. KEATOR, New York, N. Y., assignor to De Forest Radio Telephone & Telegraph Company, New York, N. Y., a Corporation of Delaware. Filed July 2, 1921, Serial No. 482,024. 2 Claims. (Cl. 250—33.)



1. The combination with radio transmitting apparatus of a casing therefor, of a metal post for supporting said casing and provided with a non-conducting portion extending above said casing, and a resonant antenna coil in a helix wound around the non-conducting portion of said post and connected to said apparatus.

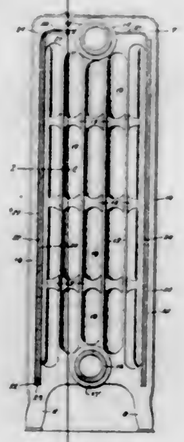
1,680,218. STALK BREAKER. WILLIAM H. KEUNE, Carlinville, Ill. Filed Mar. 26, 1927. Serial No. 178,628. 7 Claims. (Cl. 97—193.)



1. A stalk breaker for tractors, comprising a frame for mounting at the front of the tractor, the said frame including a horn-like stalk breaking bar at its forward end.

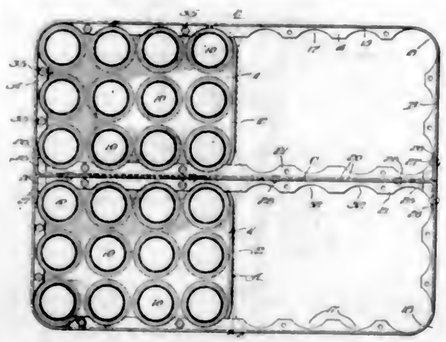
3. A stalk breaker for tractors, comprising an articulated frame for mounting at the front of the tractor; and ground shoes and stalk aligning fingers depending from the frame.

1,680,219. RADIATOR. ARCHER A. LANDON, Buffalo, N. Y., assignor to Landon Radiator Company, Incorporated, North Tonawanda, N. Y., a Corporation of New York. Filed Jan. 7, 1927. Serial No. 159,721. 3 Claims. (Cl. 257—151.)



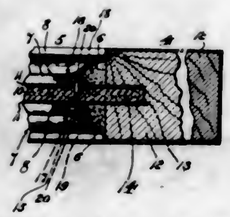
2. A radiator comprising a series of vertically disposed cast metal radiator sections each of said sections being formed to provide a plurality of longitudinally and laterally extending fluid conducting passages, bosses provided at the upper ends of said sections, nipples connecting said bosses, each radiator section being formed with webs connecting each of the portions forming the fluid conducting passages and providing an imperforate section, and at least two of said sections being formed on their corresponding sides with a pair of vertical beads, a shield comprising a longitudinally corrugated body portion and an upper flat end portion extending perpendicularly to said body portion, said corrugated body portion being supported under compression between said sections by said beads, and the flat end section extending inwardly and engaging the outer sides of said bosses.

1,680,220. MOUNTING FOR BAKING PANS. ADRIEN L. LANGEL, Chicago, Ill., assignor to Chicago Metallic Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 10, 1927. Serial No. 225,148. 9 Claims. (Cl. 53—6.)



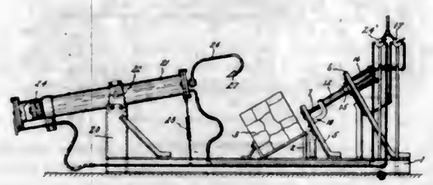
1. The combination with a plurality of pans arranged in a row, each pan having a cup depending from a ledge which is laterally extended, of a common mounting for the several pans comprising an angle iron frame arranged to present an inwardly extending flange beneath the pan ledges, the frame being of rectangular contour and having portions of its flange cut away at the corners of the frame, and means extending through the flange and ledge of each pan for securing the latter to the frame, substantially as described.

1,680,221. FIREPROOF METAL DOOR. JOSIAH E. LEE, Erlanger, Ky., assignor to The Architectural Metal Products, Incorporated, Covington, Ky., a Corporation of Kentucky. Filed Sept. 7, 1926. Serial No. 134,037. 2 Claims. (Cl. 189—46.)



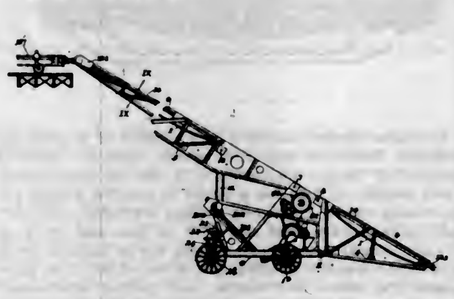
1. In a fire-proof metal door, the combination of a rectangular metallic shell having upright side-stiles and horizontal upper and lower connecting cross-rails, mouldings provided in spaced pairs along the inner edges of the said shell, spaced pairs of parallel flange-formations along the inner edges of said mouldings and having aligned pierced holes, cores or fillers in said shell, longitudinal grooves provided along the approximate center of the inner edges of said core members, aligned manholes made in the said mouldings in alignment with said pierced holes in the said flange-formations, a fire-proof panel fitting within the sight of said shell and having holes in its skirt aligning with said moulding man-holes and adapted to be set in clamping-engagement with said spaced pairs of flange-formations on the mouldings and provided with extended edges that seat in said longitudinal grooves along the inner edges of said core-members, and screw-bolts or the like passed through the said aligned man-holes and pierced bolt-holes into clamp-fastening engagement with the said flange-formations, substantially as shown and described.

1,680,222. BALE SPLITTER. PAUL W. LEHMAN, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed July 21, 1927. Serial No. 207,546. 3 Claims. (Cl. 18—2.)



3. A device of the character described comprising a pivotally supported fluid pressure cylinder, a hook secured to the piston rod thereof, a support positioned in line with the cylinder and in the path of travel of the hook adapted to support a bale of rubber inclined toward the hook, a pair of spikes carried by the piston of a second fluid pressure cylinder and reciprocable in a plane substantially parallel to the base of the bale, said spikes adapted to engage the lower portion of the bale on the side remote from the first named air cylinder, and valves to control the respective operations of the air cylinders.

1,680,223. STACKING MACHINE. WILLIAM K. LIGGETT, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Dec. 15, 1920. Serial No. 431,007. 20 Claims. (Cl. 198—121.)

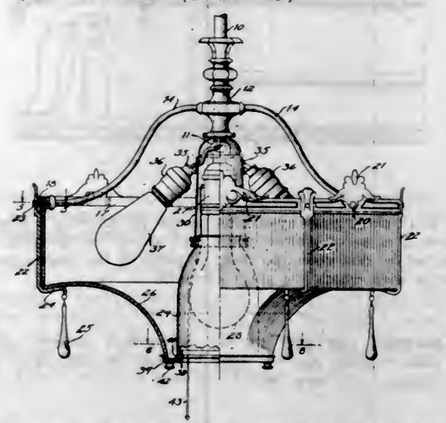


1. In a machine of the class described, the combination of a wheeled truck, a motor on said truck, a conveyor frame pivotally mounted on said support above said motor, means for adjusting said frame angularly, a second conveyor frame pivotally mounted on said truck above said motor adjacent the pivotal mounting of said first named frame, motor driven means for angularly adjusting said second frame, a single conveyor traversing said frames, a single diving element engaging said conveyor between the pivotal mountings of said frames, and driving connections from said motor to said conveyor driving means.

1,680,224. MANUFACTURE OF NEW CELLULOSE DERIVATIVES. LEON LILIENFELD, Vienna, Austria. Filed May 22, 1926, Serial No. 111,035, and in Austria May 30, 1925. 15 Claims. (Cl. 260—100.)

1. Process for making new cellulose compounds which process comprises acting on a cellulose-xanthate with an ester of an inorganic acid under substantially neutral condition.

1,680,225. LIGHTING FIXTURE. MATTHEW LUCKIESH, Cleveland, Ohio. Filed Dec. 30, 1925. Serial No. 78,267. 12 Claims. (Cl. 240—78.)



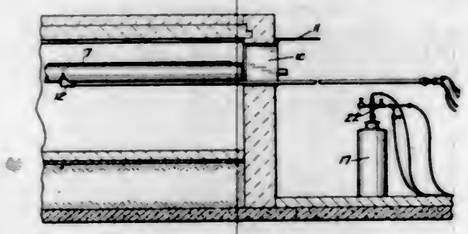
1. In a lighting fixture the combination with a glass bowl open at the top, and a bowl supporting frame about the top of the bowl, of a fixed frame, a hinge connection between the frames, a support for the fixed frame, a single downwardly extending lamp socket supported from the frame, a downwardly opening reflector disposed inside said bowl, and about the lamp socket and a plurality of obliquely disposed lamp sockets carried from the support and adapted to carry lamps inside said bowl, the frame and bowl being capable of being swung downwardly to clear the obliquely disposed lamps and the reflector.

1,680,226. DISPLAY STAND. WILLIAM H. MAGEE, Moundsville, W. Va., assignor to Fostoria Glass Co., Moundsville, W. Va., a Corporation of West Virginia. Filed Mar. 30, 1926. Serial No. 98,572. 7 Claims. (Cl. 211—37.)



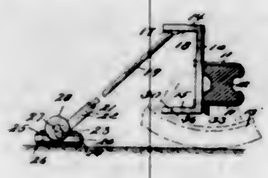
1. In a display stand for shoes, a nontiltable head including a downwardly inclined rear end provided with means formed thereon for supporting the heel of a shoe in varying vertical positions.

1,680,227. SHEET-GLASS PROTECTING MEANS AND METHOD. LEOPOLD MAMBOURG, Lancaster, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 12, 1925. Serial No. 68,509. 17 Claims. (Cl. 49—17.)



1. In sheet glass apparatus, means for drawing a sheet from a mass of molten glass, and means for spraying a protective film upon the sheet or parts of the glass apparatus with which the sheet contacts.

1,680,228. LIFTING JACK. AMOS ROY MARTY, Ada, Ohio. Filed Apr. 7, 1927. Serial No. 181,781. 5 Claims. (Cl. 254—86.)



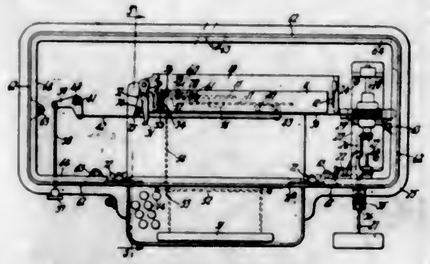
1. The combination with the axle and wheel of a vehicle, of a jack, including a support connected to the axle, a swingingly mounted leg connected to the support, a ground-gripping member adjustably connected to the lower end of the leg, whereby the length of the leg may be increased or decreased, a guide for the leg carried by the support, and means for locking the leg in said guide when the leg is in lifting position.

1,680,229. FLEXIBLE STAY BOLT. WILLIAM POLLOCK, Pittsburgh, Pa. Filed Sept. 8, 1926. Serial No. 134,256. 2 Claims. (Cl. 85—1.5.)



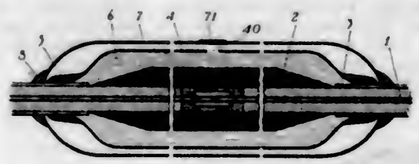
1. A boiler stay bolt comprising an end section having a central tapered and threaded portion, a straight threaded end portion and a wrench receiving opposite end portion; an intermediate section having a threaded socket in one end receiving the threaded end portion and having a ball socket in the remaining end; a second end section having a straight threaded body, a ball end held in said ball socket and a remaining end portion adapted to receive a wrench; and a tapered plug screwed on the last mentioned straight threaded portion, the smaller ends of the tapered threaded portion and of the plug confronting each other.

1,680,230. TYPEWRITING MACHINE. EDWARD G. ROWLEY, Belleville, N. J., assignor to Underwood Elliott Fisher Company, New York N. Y., a Corporation of Delaware. Filed June 30, 1926. Serial No. 119,542. 15 Claims. (Cl. 197—186.)



1. A sound-deadening casing for a typewriting machine having a carriage, escapement mechanism therefor, a platen, a line-spacing lever therefor, means for simultaneously line-spacing and returning the carriage, and means for locking the carriage from the outside of the casing in a manner to prevent the sliding movement of the carriage upon operation of the line-spacing means.

1,680,231. CABLE JOINT. DONALD M. SIMONS, Osborne, Pa., assignor, by mesne assignments, to General Cable Corporation, a Corporation of New Jersey. Filed Oct. 25, 1926. Serial No. 143,864. 1 Claim. (Cl. 173—268.)

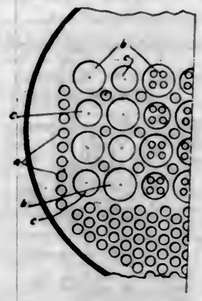


The steps herein described in a method of jointing an insulated metal-sheathed cable whose insulation includes material of fluidity increasing with rise of temperature, which consists in bringing a sleeve to position around the electrically united cable ends, making low-temperature oil-tight union between the sleeve at its ends and the ends of the cut-away cable sheath, filling the so applied sleeve with liquid insulation, bringing a sleeve of metal to place around the sleeve first named, and uniting said second sleeve by wiped solder joint to the cable sheath.

1,680,232. FLUE SUPERHEATER. PETER THOMSEN, Cassel, Germany, assignor to The Superheater Company, New York, N. Y. Filed Mar. 1, 1926, Serial No. 91,463, and in Germany Mar. 2, 1925. 3 Claims. (Cl. 122—462.)

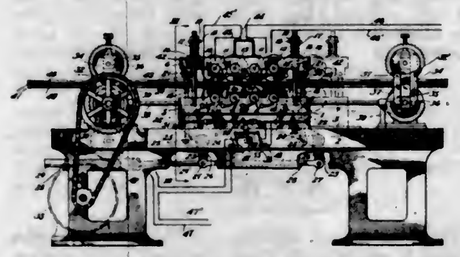
1. In apparatus of the class described, the combination of a pair of flue sheets; flues connecting them, the flues being of two different internal diameters and so arranged that tubes of the two diameters alternate in rows running in one direction; superheater headers parallel and

adjacent to one of the flue sheets, out of line with the flues, and at right angles to said rows of flues; and tubular superheater elements connected to said headers and



each looping into flues of different diameters, the arrangement being such that the steam flows last through a loop in a large flue.

1,680,233. ELECTRIC WELDING METHOD AND APPARATUS. ARTHUR J. TOWNSEND, Canton, Ohio, assignor, by mesne assignments, to The Columbia Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 18, 1921. Serial No. 438,126. 14 Claims. (Cl. 219—4.)



3. Apparatus for spot welding metal laminæ including electrodes in a welding circuit coacting on opposite sides of the material, means moving the material, and means closing the circuit and clamping the electrodes for moving them with the material under uniform perpendicular pressure during the welding period.

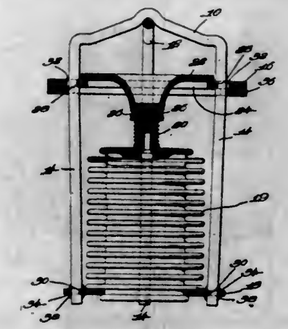
1,680,234. PLASTIC MATERIAL. WILLIAM BURTON WESCOTT, Boston, Mass., assignor to Rubber Latex Research Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 13, 1927. Serial No. 161,026. 6 Claims. (Cl. 106—23.)

1. As a new plastic material, acid washed asbestos and uncoagulated latex.

6. The process of making asbestos containing plastics which comprises extracting asbestos with acid, washing and admixing the extracted asbestos with latex.

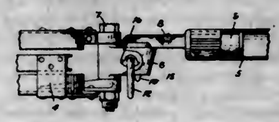
1,680,235. WATER CONTROL. JOHN E. WOODS, Brookline, Mass., assignor to Clifford Manufacturing Co., Boston, Mass., a Corporation of Delaware. Filed Mar. 17, 1927. Serial No. 176,111. 6 Claims. (Cl. 236—34.)

1. Temperature-controlled apparatus comprising a thermostat, a valve connected with the thermostat and movable thereby, a partition member provided with a valve opening and a plurality of support openings, longitudinal supports extending through the corresponding openings in the partition member and having shoulders designed to engage with the partition member on lateral movement of the longitudinal members with relation to



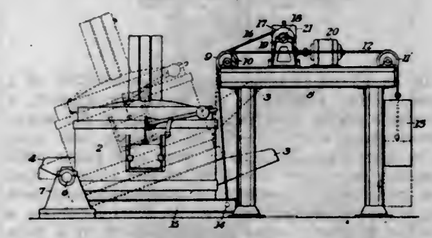
the openings, and means for rigidly locking the longitudinal members and partition member in position with the shoulders engaging the partition member.

1,680,236. DRAFT COUPLING. HARRY C. ZIMMERMAN, Washington, D. C. Filed Jan. 15, 1927. Serial No. 161,405. 4 Claims. (Cl. 280—33.15.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625, as amended Apr. 30, 1928.)



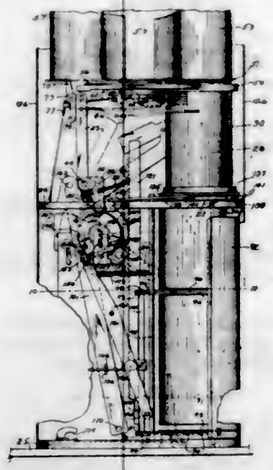
1. In a coupling for connecting a pair of vehicles, a draw bar arranged to be swivelly mounted on one of the vehicles and having a downwardly projecting tapered stud on its free end, a laterally swinging socket member carried by the other vehicle and having a tapered apertnre for receiving the stud, a latch mounted in the socket member and positioned to intersect the aperture therein, said latch formed with a recess conforming to the outline of the aperture in the socket member and the stud formed with a recess for receiving the latch when said latch is turned.

1,680,237. ELECTRIC FURNACE AND OPERATING MECHANISM THEREFOR. SAMUEL ARNOLD, 3d, Benavon, Pa. Filed Mar. 23, 1926. Serial No. 96,723. 13 Claims. (Cl. 266—15.)



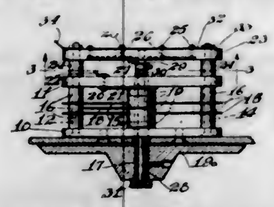
1. In a furnace installation, an electric furnace having a pivotal mounting above the bottom thereof, and operating mechanism positioned above the plane of the furnace and entirely at one side thereof for tilting the same about said mounting.

1,680,238. VENDING MACHINE. ROLLYN H. BAKER, Dayton, Ohio, assignor to The Baker Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Dec. 6, 1919. Serial No. 342,973. 15 Claims. (Cl. 312—44.)



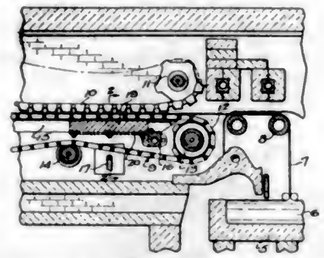
1. In a dispensing device, a tubular magazine adapted to accommodate a stack of nested cups, a dispensing mechanism at one end thereof whereby the cups are dispensed one at a time; a revoluble carrier containing a plurality of auxiliary magazines adapted to register with the dispensing magazine successively as the carrier rotates; an operating element whereby the dispensing means is actuated, a ratchet wheel on said carrier, a lever connected to and rocked by the operating element each time it is actuated, a pawl carried by said lever and adapted to engage the ratchet wheel and rotate it intermittently, and an arm carried by the pawl, adapted to engage the cups in the dispensing magazine and prevent the pawl engaging the ratchet wheel, until by its diminution in size the stack is removed from the path of the arm.

1,680,239. VARIABLE ELECTRICAL CONDENSER. JOHN C. BARRETT, Chicago, Ill. Filed Dec. 12, 1925. Serial No. 74,929. 2 Claims. (Cl. 175—41.5.)



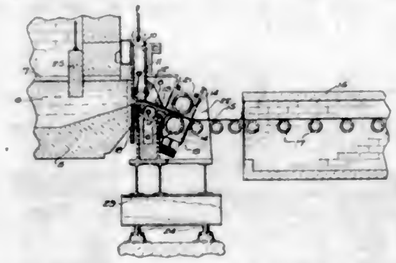
1. In an electrical condenser, the combination of a variable section comprising an insulating support, a flat metallic stator plate carried thereby, a flat metallic rotor plate, and a first shaft carrying said rotor plate in spaced parallel relation with said stator plate for angular movement relatively thereto, and a fixed section comprising a plurality of fixed condensers each having a switch contact forming one of its terminals, a switch for selectively engaging said contacts by a turning movement, and a second shaft carrying said switch for turning it, said second shaft being movable axially to move said switch from its contact engaging position, and a spring tending to move said second shaft and said switch to the contact engaging position of the latter.

1,680,240. SHEET-GLASS-DRAWING APPARATUS. LEWIS D. BLACKSHERE, Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Aug. 17, 1927. Serial No. 213,465. 7 Claims. (Cl. 49—17.)



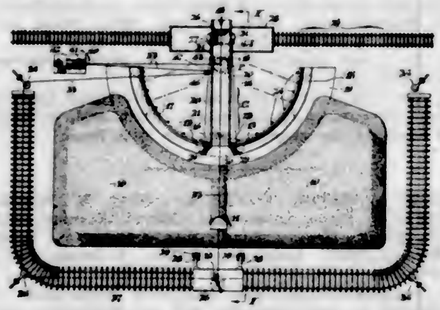
1. The combination with an endless sheet glass drawing apparatus draw table, and means for heating the same, of means for protecting the sheet carrying run of said table from said heating means.

1,680,241. SHEET-GLASS APPARATUS. JAMES C. BLAIR, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed June 24, 1926. Serial No. 118,159. 7 Claims. (Cl. 49—33.)



1. In sheet glass apparatus, a receptacle containing a mass of molten glass, a slab associated with the receptacle, means for flowing a relatively thick sheet of glass down the slab, and a pair of rolls arranged at the end of the slab for reducing the sheet in thickness, and means for moving the slab and rolls simultaneously.

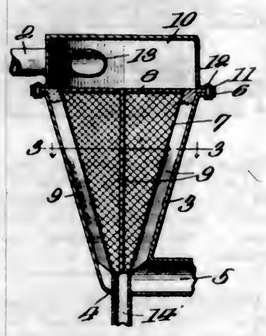
1,680,242. MATERIAL STORAGE AND HANDLING SYSTEM. ROBERT H. BEAUMONT, Radnor, Pa., assignor to R. H. Beaumont Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 6, 1926. Serial No. 107,099. 7 Claims. (Cl. 214—100.)



1. In a material storage and handling system of the character described, a drag scraper for reclaiming the material from the storage area, a cable with guide means

adjustable to determine linear travel of the scraper over different portions of the storage area, and a permanently pivoted elevating ramp with its lower end traversing a concentric track for alignment into the path of travel of the scraper.

1,680,243. SCREENING DEVICE. FRANK J. BECKER, North Tonawanda, N. Y., assignor of one-half to Frank J. Moore, Buffalo, N. Y. Filed Dec. 31, 1923, Serial No. 683,693. Renewed Jan. 25, 1928. 5 Claims. (Cl. 209—250.)



1. A screening device of the kind described comprising a funnel-shaped shell having an opening in its bottom and a lateral discharge spout, said shell being provided with an annular flange at its upper edge, a ring disposed on said flange having depending converging ribs terminating short of the end of the shell, a funnel-shaped screen disposed on said ribs terminating short of the bottom of the shell adjacent the ends of the ribs, a closed circular cover having an annular flange disposed on said ring and provided with a tangentially disposed inlet, and bolts passing through said ring and flanges of the shell and cover respectively for securing said members together.

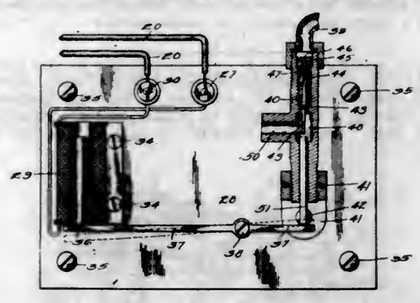
1,680,244. FASTENER. MOSES F. CARR, Lexington, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Massachusetts. Original application filed Nov. 1, 1924, Serial No. 747,231. Divided and this application filed Aug. 25, 1925. Serial No. 52,328. 12 Claims. (Cl. 79—3.)



1. The method of forming a hollow pressed stud having a head, a neck and a shank portion with a shoulder between said head and neck, which comprises providing a neckless shell, forming a neck therein by lateral compression and subsequently pressing said head and shank relatively closer together to form said shoulder.

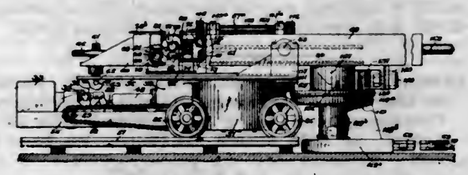
1,680,245. VALVE DEVICE FOR USE WITH PUMPING STRUCTURES. ALBERT PENN, Des Moines, Iowa, assignor of one-half to Ralph Penn, Des Moines, Iowa. Filed May 7, 1923. Serial No. 637,181. 1 Claim. (Cl. 137—139.)

A valve structure of the class described comprising a valve body, a valve seat therein, a valve member adapted to coact therewith, a spring interposed between said valve member and said valve body for causing such coaction and electrically operated means for allowing said spring to maintain said valve seated, said means comprising a solenoid, an armature therein, a pivoted lever having said armature normally resting on one end thereof whereby energisation of said solenoid mag-



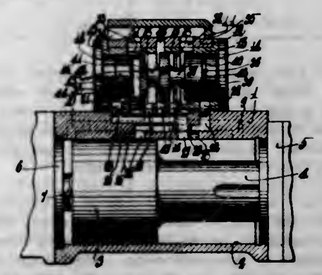
netizes the armature and causes it to exert a pull on said lever, the other end of which is adapted to coact with said valve member for opening the same when the solenoid is deenergized.

1,680,246. MINING MACHINE. FRANK CARTLIDGE, Cincinnati, Ohio, assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 20, 1918, Serial No. 240,969. Renewed Sept. 15, 1923. 104 Claims. (Cl. 262—28.)



1. In a mining machine, the combination with a guide disposable substantially against a face in which a kerf is being cut and a truck mounting therefor relative to which said guide is normally longitudinally extending and upon which said guide is adjustable while maintaining the plane thereof parallel to a horizontal line extending longitudinally of the guide, of cutting mechanism movable on said guide longitudinally thereof, said cutting mechanism being supported by said guide and being located beneath the same and being disposable substantially midway between the sides of said guide when the latter is in substantial abutment against the face.

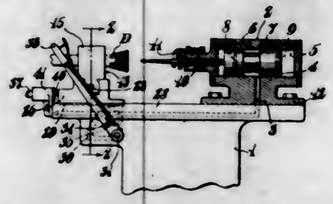
1,680,247. ROCK-DRILLING MOTOR. CHARLES H. ALLEN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 7, 1922. Serial No. 550,460. 7 Claims. (Cl. 121—28.)



1. In a fluid pressure motor, a cylinder, a piston reciprocable therein, means forming distributing passages communicating with said cylinder adjacent the ends

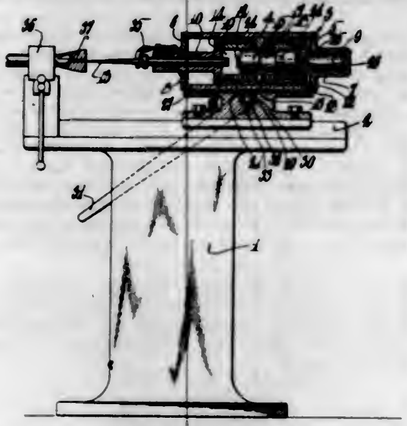
thereof, a valve controlling said passages, and means for controlling said valve by the fluid in the ends of the cylinder which directly actuates the piston comprising throwing passages each communicating with the bore of the cylinder by a smaller port nearer the end thereof and a larger port nearer the center thereof.

1,680,248. DRILL-SHARPENING MECHANISM. FRANK M. LEE, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Jan. 5, 1923. Serial No. 610,928. 3 Claims. (Cl. 76—5.)



3. In a hole opening mechanism, a stationary motor operated pinning device, a drill steel clamping device, actuating means for moving said clamping device longitudinally relative to said pinning device, means associated with said actuating means for normally holding said clamping device in a position remote from said pinning device, and means automatically controlled on movement of said clamping device for controlling the supply of operating fluid to said motor operated pinning device upon approach thereto of said clamping device.

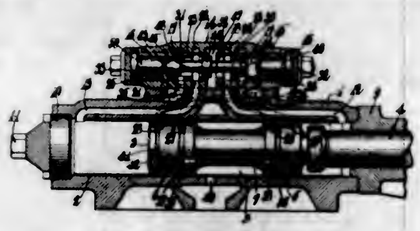
1,680,249. DRILL-SHARPENING MECHANISM. FRANK M. LEE, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Jan. 5, 1923. Serial No. 610,929. 14 Claims. (Cl. 76—5.)



1. In a hole opening punching mechanism, a feed cylinder, a motor disposed within said feed cylinder and including a punch operating piston, and means for supplyig fluid pressure to the last mentioned motor including a passage extending from end to end thereof and controlled by a check valve at either end.

1,680,250. MOTOR. CHARLES H. ALLEN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Sept. 26, 1923. Serial No. 664,858. 11 Claims. (Cl. 121—28.)

1. In a pressure fluid actuated motor, a cylinder, a piston reciprocable therein, means forming fluid distribution passages communicating with said cylinder, a valve controlling said passages, valve throwing means including means forming throwing passages opening into said cylinder for admitting live pressure fluid to the ends of said valve for throwing the latter during normal operation of the motor, and a movable abutment adapted to be actuated by said piston, said valve throwing means



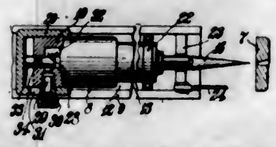
also including means for admitting live pressure fluid to one end of said valve when movement of said piston is so limited by movement of said abutment to one extreme position of the latter that the piston overlies the communication of the corresponding throwing passage with the cylinder.

1,680,251. FORGING MACHINE. HALBERT B. HALVORSEN, Michigan City, Ind., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 20, 1925. Serial No. 24,419. 18 Claims. (Cl. 76—5.)



1. In combination, a bit sharpening machine having bit ejecting means, and means for twice interrupting movement of said bit after leaving the ejector but before leaving the machine.

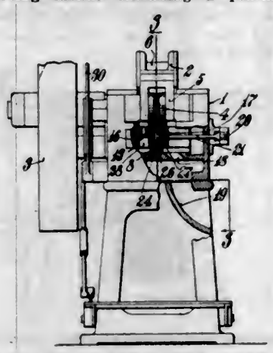
1,680,252. DRILL-FORGING MECHANISM. WADE H. WINEMAN, Michigan City, Ind., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 28, 1925 Serial No. 26,446. 8 Claims. (Cl. 76—5.)



1. A drill steel punch mechanism comprising a fluid actuated hammer punch, means for slidably supporting the same, mechanical means for feeding said hammer punch forwardly, and means whereby the same is automatically actuated upon actual engagement with a steel including a controlling valve initiating fluid flow to the punch hammer on engagement of the punch with a steel.

1,680,253. FORGING MACHINE. HALBERT B. HALVORSEN, Michigan City, Ind., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Sept. 29, 1925. Serial No. 59,346. 13 Claims. (Cl. 76—5.)

13. A forging machine comprising a reciprocable die, an element having slots of different sizes to receive different sized blanks, and movable laterally of the path of movement of said die to bring said slots into operative relation with said die, means for preventing lateral movement of said supporting means including a plurality of slots



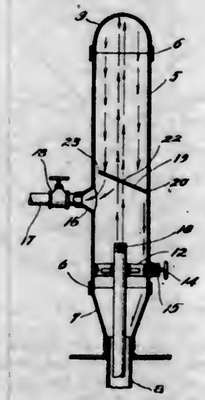
formed therein and a longitudinally movable member insertible therein, and feeding means for said blanks including said longitudinally movable member.

1,680,254. FORGING MACHINE. SVEN T. NELSON, Michigan City, Ind., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 19, 1925. Serial No. 76,538. 10 Claims. (Cl. 76—5.)



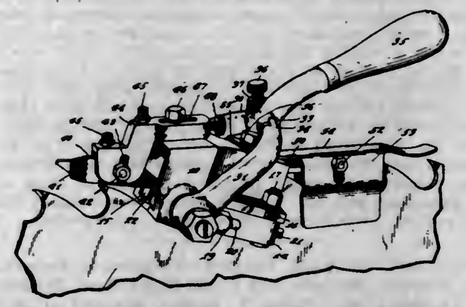
1. A drill steel punch comprising the combination of a motor, anvil mechanism disposed at one end of said motor having a plurality of anvil surfaces, a hole forming tool associated with said anvil mechanism, and means actuated by said motor and movable between said anvil surfaces for imparting to the latter blows to drive the tool in opposite directions.

1,680,255. WATER TRAP FOR GAS WELLS. EDWIN L. POSTON, Lansing, Kans., assignor of one-half to Daniel E. Alexander, Lansing, Kans. Filed Dec. 13, 1926. Serial No. 154,640. 2 Claims. (Cl. 183—2.7.)



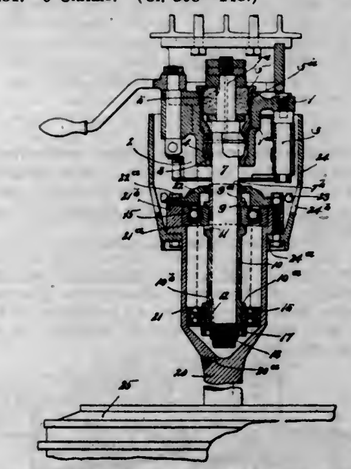
1. A water trap construction for gas well apparatus comprising a casing closed at its upper end and having its lower end portion in communication with the discharge outlet from the well, a gas outlet communicating with said casing at some distance above said well discharge outlet, and a transverse baffle member having one margin thereof secured to the interior wall of said casing at one side thereof and projecting in upwardly inclined relation across the interior of the casing, said baffle member having an approximately central opening in line with said well discharge outlet to permit the gas discharge therefrom to impinge against the closed end of the casing, the upper margin of said baffle member being spaced from the wall of the casing at a slight distance above said gas discharge outlet.

1,680,256. SWAGE SHAPER. JOHN F. PRIBNOW, Indianapolis, Ind., assignor to E. C. Atkins & Company, Indianapolis, Ind., a Corporation of Indiana. Filed July 31, 1924. Serial No. 729,214. 13 Claims. (Cl. 76—54.)



12. In a saw shaper, the combination of a shaper body, a pair of shaper jaws mounted therein and movable relatively to each other, a stop-support mounted on said shaper body and having depending flanges, a tooth-stop mounted between said flanges, a transverse clamping screw for clamping said tooth-stop between said flanges, and adjusting screws acting on said tooth-stop on opposite sides of said transverse clamping screw, said flanges having slots which receive said clamping screw and are transverse to the plane in which said shaper jaws are relatively movable.

1,680,257. GYRATORY CENTRIFUGAL. EUGENE ROBERTS, Salt Lake City, Utah, assignor to The Western States Machine Company, Salt Lake City, Utah, a Corporation of Utah. Filed May 9, 1925. Serial No. 29,231. 6 Claims. (Cl. 308—143.)



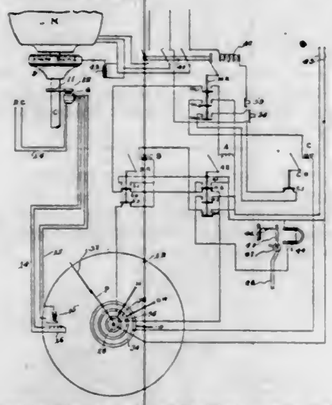
4. The combination of a gyratory spindle suspended from a universal joint, upper and lower anti-friction radial bearing elements mounted on said spindle to permit their withdrawal from the lower end of said spindle, a basket shaft provided at its upper end with an enlarged hollow extension forming an oil and bearing chamber surrounding said bearings, and a cover detachably secured to said chamber arranged to transmit the load thrust to one of said bearings and permit direct access to both bearings by the withdrawal of the shaft.

1,680,258. PROCESS OF GENERATING OR GRINDING GEAR TEETH. CHARLES H. SCHURR, Cleveland, Ohio. Filed June 21, 1923. Serial No. 646,922. 9 Claims. (Cl. 90—1.)



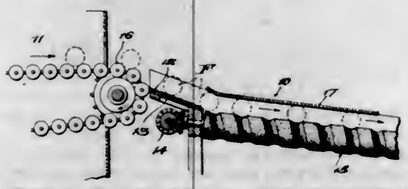
1. The method of generating the involute teeth of a gear or gear blank of known base circle diameter to have a preselected pressure angle, by engagement with a tool having a working face of different pressure angle, which consists first, of so positioning the gear or blank relatively to the tool face that a tangent to the base circle intersects the tool face perpendicularly at the same point at which the tangent meets a line drawn from the center of the base circle in the plane of the tangent at an angle with the tangent of 90 degrees minus the tool pressure angle; and second, of rolling the gear or blank in engagement with the tool on a circle whose radius is the line from the said center to said point of intersection.

1,680,259. CONTROL SYSTEM. GUILFORD L. SPENCER, Tinguaro, Matanzas, and VIRGIL E. METCALFE, Delicias, Oriente, Cuba; Emma F. Spencer, executrix of said Guilford L. Spencer, deceased, assignor to Emma F. Spencer. Filed Oct. 22, 1924. Serial No. 745,241. 12 Claims. (Cl. 172—239.)



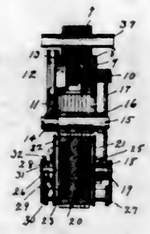
1. In combination, a rotary machine, energy responsive means for controlling the operation of said machine, and means for furnishing energy to said energy responsive means in proportion to the energy developed by said rotary machine.

1,680,260. FRUIT-TREATING APPARATUS. ERNEST M. BROGDEX, Winter Haven, Fla., assignor to Brogdex Company, Winter Haven, Fla., a Corporation of Florida. Filed Nov. 26, 1921. Serial No. 518,033. 8 Claims. (Cl. 91—59.)



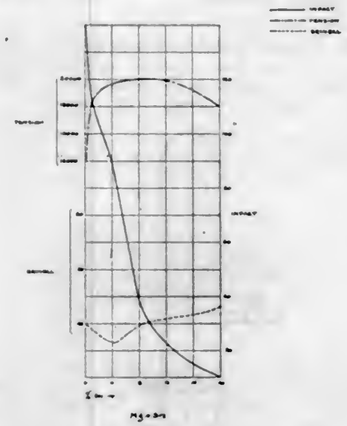
1. Fruit treating apparatus comprising the combination, with fruit brushing or polishing means, and means for feeding fruit thereto, of yielding means for supplying a semi-fluid or pasty composition to the fruit substantially as it is being fed to said brushing and polishing means.

1,680,261. BLAST MAGNETO. ALFRED U. DAVIS, Baltimore, Md., assignor to Davis Instrument Manufacturing Company, Incorporated, a Corporation of Maryland. Filed Nov. 8, 1926. Serial No. 147,097. 1 Claim. (Cl. 171—76.)



A blast magneto comprising a casing, a magnet secured within said casing, binding post at one end of said casing, an armature revolubly mounted in said casing, a contact disk secured to one side of said armature and insulated therefrom and having one end of the armature wire connected thereto, a contact plate in constant contact with said disk and connected with one of said binding posts, a pinion on one end of the armature shaft, a gear in mesh with said pinion, a shaft on which said gear is mounted, a pinion on opposite end of said last mentioned shaft, a sleeve to which the magnet plates are secured, a segment gear mounted in said sleeve and in mesh with the last-mentioned pinion, and having a recess in one side thereof, a pin projecting across said recess of said segment gear and means co-operating with said pin for turning the segment gear and revolving the said armature.

1,680,262. LIGHT METAL ALLOY. JOHN A. GANN, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Oct. 27, 1921, Serial No. 510,794. Renewed Aug. 26, 1926. 7 Claims. (Cl. 75—1.)

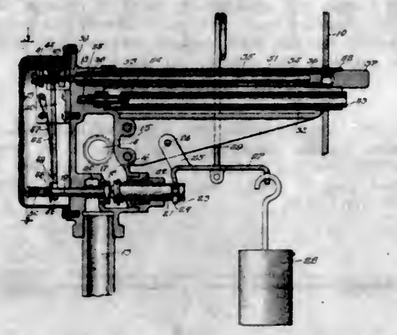


1. As a new product, an alloy containing not less than eighty nor more than ninety-nine and one-half per cent of magnesium, and not more than twenty nor less than one half of one per cent of tin.

1,680,263. PILOT AND BURNER CONTROL APPARATUS. FRANK A. GAUGER, ROY W. JOHNSON, and ARTHUR J. NEUSER, Milwaukee, Wis. Filed May 29, 1925. Serial No. 33,698. 6 Claims. (Cl. 158—99.)

1. In combination with a gas appliance having a casing and main burner therein; a Bunsen burner pilot tube

disposed exteriorly of said casing and having its flame end protruding therethrough adjacent the main burner

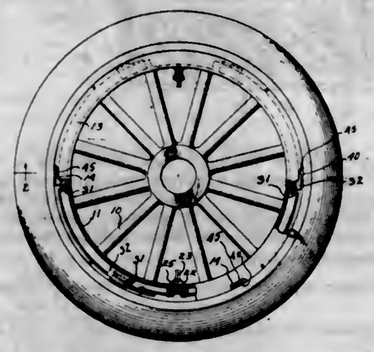


of the gas appliance; and an air connection between the air inlet of the Bunsen burner tube in rear of the flame and the interior of the casing.

1,680,264. PROCESS OF TREATING SOYA BEANS. OTIS JOHNSON, San Francisco, Calif., assignor to I. F. Laucks, Inc., Seattle, Wash., a Corporation of Washington. Filed May 27, 1924. Serial No. 716,214. 2 Claims. (Cl. 99—11.)

1. In the process of obtaining as a base for an adhesive a protein extract from a leguminous seed, the steps of soaking said seed matter in water not exceeding 160° Fahrenheit in temperature; grinding the seeds while in a moist state; adding water not exceeding 160° Fahrenheit in temperature together with an alkali; extracting the juice from the mass; separating the oil from the juice; adding a curding agent to the oil liberated juice; and removing the moisture from the curd, whereby is provided a base for an adhesive.

1,680,265. WHEEL. JOSEPH P. LAVIGNE, Detroit, Mich., assignor to Griffith, Lavigne & Hamel Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 28, 1926. Serial No. 144,714. 2 Claims. (Cl. 301—27.)



2. In a device of the character described a channeled felly, a rack adapted to slide therein, said rack having a slot provided with an abutment at one end, a rim supporting cam block in said slot and a compression spring co-operating with said abutment to tend to force said block toward the opposite end of said slot.

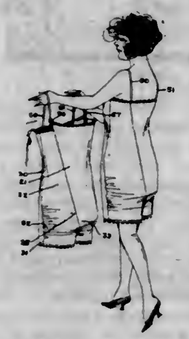
1,680,266. AUTOMATIC FASTENER. JOHN GALAT, Waterbury, Conn. Filed Apr. 26, 1926. Serial No. 104,594. 1 Claim. (Cl. 24—205.)

In a fastener for detachably uniting the adjacent edges of a pair of sheets, a row of plug links secured along the edge of one of said sheets, a row of socket links secured along the edge of the other sheet and interlocking with the links of the first row, a runner member for locking and unlocking said rows of links, each of said links having a pair of initially divergent



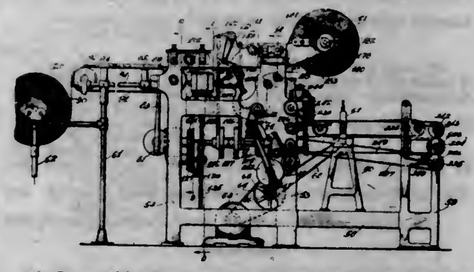
jaws for embracing one of said sheets and crimped thereon, each of said jaws having a pair of teeth to engage the material of said sheets, one of the teeth of each jaw being offset from another tooth thereof.

1,680,267. PROCESS OF MAKING UNDERGARMENTS OF INELASTIC MATERIAL. MARY D. NEILSON, Minneapolis, Minn. Filed June 22, 1920, Serial No. 390,731. Renewed Dec. 5, 1927. 3 Claims. (Cl. 2—78.)



1. The process of making undergarments which consists in forming a division along the lower portion of the longitudinal center line of a front part, providing a back part having excess length of material at its central portion extending below the bottom edges of the front part before the lower portion of the back part has been sewed into the garment, said excess length of material having a substantially straight bottom edge double the length of said division, uniting said back part along its side edges to the side edges of said front part, and uniting said bottom edge with the edges of said division with the center of said bottom edge at the meeting point of the edges of said division in the center of the front of the garment, whereby legs are formed with crotch fullness extending directly back from the center of the front of the garment.

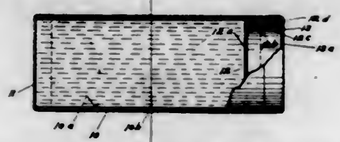
1,680,268. ABSORBENT-PAD MACHINE. GEORGE WEISS, Chicago, Ill., assignor, by mesne assignments, to International Cellucotton Products Co., Chicago, Ill., a Corporation of Delaware. Filed Mar. 24, 1920. Serial No. 368,456. 23 Claims. (Cl. 223—15.)



16. In combination, a support, means for engaging a pad of filling material with a sheet of enclosing material and applying same to said support with the side margins of the sheet extending beyond the pad and the end

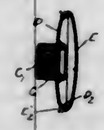
margins of the sheet also extending beyond the pad, a pair of opposed formers mounted on opposite sides of said support, mechanism for moving said formers in opposed directions and towards said pad to constitute in effect extensions of said pad, means for folding the side margins of the sheet over said pad and formers, means for withdrawing said formers subsequent to the folding operation, and means for moving said support to bring another portion thereof into association with said pad engaging means.

1,680,269. LUBRICANT CONTAINER FOR GREASE GUNS. SAMUEL K. WELLMAN, Cleveland Heights, and ALLEN A. GOULD, Cleveland, Ohio. Filed Dec. 18, 1925. Serial No. 76,139. 7 Claims. (Cl. 206—56.)



1. A container for lubricant adapted to cooperate with a discharge nozzle having pump mechanism adapted to suck lubricant from the container and force it out of the nozzle, said container comprising in combination a tubular side wall; a substantially flat end wall adapted to be opened to permit discharge of lubricant; and a second end wall fitting within the side wall and adapted to be moved therethrough like a piston by air pressure to discharge lubricant from the container, said piston-like end wall having a substantially flat front face, a flexible rearwardly turned annular seal portion to engage the side wall and form a substantially air-tight sliding seal therewith and a guide portion to engage the side wall at points distributed around the circumference thereof and substantially spaced lengthwise of the container from the annular seal portion.

1,680,270. KNOBBED NUT. FLOYD D. WENN and BRUCE M. STANNARD, Binghamton, N. Y., assignors to The Brewer-Titchener Corporation, Cortland, N. Y., a Corporation of New York. Filed July 16, 1927. Serial No. 206,194. 2 Claims. (Cl. 85—35.)



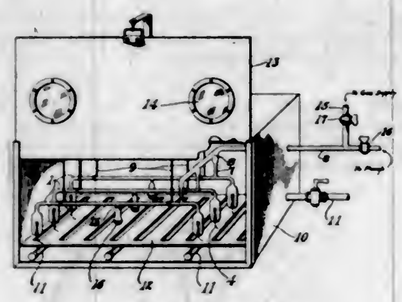
2. In a knobbed nut, an internally screw threaded nut body member provided with a tubular extension and a polygonal external surface, a backing disc having an apertured socket formed therein, the aperture being shaped to fit the extension of the nut and the extension being locked into engagement with the margin of the aperture and the base of the socket fitting the polygonal surface of the nut when swaged in place, and a crown plate engaging the periphery of the backing disc.

1,680,271. ARGON-MERCURY DISCHARGE TUBE. RAYMOND ROBERT MACHLETT, New York, N. Y., assignor to Rainbow Light, Inc., a Corporation of New York. Filed July 9, 1927. Serial No. 204,479. 4 Claims. (Cl. 176—122.)



1. An improved luminous tube containing an atmosphere of rarefied argon and mercury vapor, the latter being evolved uniformly from the surface of the glass walls of the tube.

1,680,272. LUMINOUS TUBE AND PROCESS OF MANUFACTURING THE SAME. RAYMOND R. MACHLETT, New York, N. Y., assignor to Rainbow Light, Inc., Long Island City, N. Y., a Corporation of New York. Filed Nov. 17, 1927. Serial No. 233,772. 12 Claims. (Cl. 176—122.)



1. An improved luminous tube, comprising a transparent tubular container having therein a rare gas of the atmosphere under reduced pressure, and interior electrodes within the tube of absobent conducting material having an alkali metal vapor occluded therein, substantially as set forth.

Patents No. 1,680,273 to 1,681,157

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Vol. 373—No. 2. TUESDAY, AUGUST 14, 1928. Price—$10 per year.

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Designs	116—No. 75,995 to No. 76,110, inclusive.	
Patents	885—No. 1,680,273 to No. 1,681,157, inclusive.	
Total	1,356	

New Divisions in the Patent Office.

Order No. 3,067, August 1, 1928, directs that the following new divisions be established:

DIVISION 57. Examiner: G. D. G. Nicolson.
Rooms 257, 274, 276, and 278 in Annex.

Class.
10. Bolt, Nail, Nut, Rivet, and Screw Making, from Division 13.
59. Chain, Staple, and Horseshoe Making, from Division 13.
63. Jewelry, from Division 5.
85. Driven, Headed and Screw-threaded Fastenings, from Division 13.
151. Nut and Bolt Locks, from Division 17.
164. Cutting and Punching Sheets and Bars, from Division 11.

DIVISION 58. Examiner: E. F. Dowell.
Rooms 268, 268, 270, and 272 in Annex.

Class.
51. Abrading, from Division 29.
197. Typewriting Machines, from Division 30.

DIVISION 59. Examiner: V. I. Richard.
Rooms 315, 317, 319, Patent Office Building.

Class.
23. Chemistry, from Division 6.
44. Fuel and Igniting Devices, from Division 49.
71. Fertilizers, from Division 25.
87. Oils, Fats and Glue, from Division 31.
149. Hides, Skins and Leather, from Division 11.
195. Alcohol, from Division 31.
222. Hydraulic Cement and Lime, from Division 31.

DIVISION 60. Examiner: R. L. Glass.
Rooms 209, 211, 213, 215, and 217 in Annex.

Class.
136. Batteries, from Division 16.
201. Resistances and Rheostats, from Division 16.
219. Electric Heating, from Division 8.
247. Electrical Conduits and Housings, from Division 42.
290. Prime-mover Dynamo Plants, from Division 26.

DIVISION 61. Examiner: G. E. Parks.
Rooms 267 and 269, Patent Office Building.

Class.
58. Horology, from Division 28.
161. Time Controlling Mechanism, from Division 28.
187. Elevators, from Division 47.
208. Velocipedes, from Division 49.
227. Fire-escapes, from Division 52.
228. Ladders, from Division 52.
242. Winding and Reeling, from Division 21.
254. Pushing and Pulling Implements, from Division 4.
258. Railway Mail Delivery, from Division 52.
304. Scaffolds, from Division 52.

DIVISION 62. Examiner: W. W. Cochran.
Rooms 245, 247, 249, 251 and 253 in Annex.

Class.
43. Fishing, Trapping, and Vermin Destroying, from Division 38.
45. Furniture, from Division 8.
46. Toys, from Division 7.
190. Baggage, from Division 40.
224. Package and Article Carriers, from Division 40.
272. Amusement and Exercising Devices, from Division 7.
273. Amusement Devices, Games, from Division 22.

The transfer of the following classes is hereby directed to take effect August 1, 1928:

Class.
7. Compound Tools, from Division 14 to Division 29.
8. Bleaching and Dyeing, from Division 25 to Division 6.
52. Explosive, Pyrotechnic, and Match Compositions, from Division 25 to Division 6.
61. Hydraulic and Earth Engineering, from Division 83 to Division 38.
81. Tools, from Division 14 to Division 29.
127. Sugar, Starch and Carbohydrates, from Division 25 to Division 6.
213. Railway Draft Appliances, from Division 48 to Division 41.
267. Spring Devices, from Division 47 to Division 45.

Examiner S. T. Bowen is assigned in charge of Division 58.

Examiner L. W. Worrell is assigned in charge of Division 14.

Condition of Applications Under Examination at Close of Business August 3, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 110,964; Trade-Mark Division, 1,897. Oldest new case, Oct. 4, 1927; oldest amended, Oct. 8, 1927. The dates given are 1927 except where † indicates 1928.)

Room No.	Divisions, Examiners, and Subjects of Inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of application awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage, Scattering Unloaders; Handling and Hoist Line Implements.	Dec. 24	†Jan 3	1,512
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	Jan. 9	†Jan. 10	1,613
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Nov. 21	Dec 27	1,573
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Oct. 10	Oct. 19	1,707
109*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Oct. 10	Nov. 2	1,577
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	Dec. 6	Dec. 1	2,528
108	7. JARBOE, C. O., Optics; Photography	Nov. 2	Nov. 3	1,975
133	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Nov. 14	Dec. 6	2,464
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	†Feb. 20	†Feb. 20	1,629
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Nov. 21	Dec. 9	1,869
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	†Jan. 24	†Jan. 19	1,018
380	12. PIERCE, P. P., Machine Elements	Nov. 2	Nov. 23	2,108
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Dec. 5	Nov. 21	1,280
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Nov. 2	Nov. 4	1,282
329	15. REDROW, W. L., Glass; Plastic Block and Earthenware Apparatus; Plastics	Dec. 1	Dec. 16	2,302
242*	16. SPENCER, C. J., Telegraphy; Telephony	Nov. 19	Dec. 5	1,139
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Nov. 30	Dec. 17	1,412
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Dec. 2	Dec. 13	1,891
246	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Dec. 8	Dec. 14	1,839
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	†Feb. 18	†Mar. 3	1,504
212	21. THURBER, W. L., Textiles; Cloth Finishing	Oct. 28	Dec. 14	1,107
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Nov. 14	Dec. 6	1,613
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Oct. 6	Oct. 27	1,136
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Oct. 6	Oct. 8	1,520
202*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Milk; Threshing; Vegetable and Meat Cutters and Comminutors.	†Jan. 5	†Jan. 10	1,726
228*	26. RODGERS, J. S., Electricity, Generation; Motive Power	Nov. 10	Nov. 4	1,212
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	†Jan. 14	†Jan. 9	1,377
225	28. BENSON, A. R., Internal-Combustion Engines	Nov. 14	Nov. 16	2,094
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	Dec. 14	Dec. 2	1,212
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Dec. 1	†Jan. 20	1,496
312	31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils.	Dec. 2	Dec. 3	2,774
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Nov. 9	Nov. 7	2,276
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	†Feb. 27	†Feb. 29	2,201
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Oct. 13	Nov. 2	1,515
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	†Feb. 13	†Feb. 17	1,693
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	†Jan. 24	†Jan. 20	1,925
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Nov. 2	Dec. 21	2,152
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	†Jan. 3	†Jan. 16	1,890
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Oct. 4	Nov. 1	1,833
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Oct. 21	Dec. 5	2,782
125	41. BROWN, J. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Dec. 22	†Jan. 4	1,470
223*	42. CUTTING, H. O., Electric Signaling	Nov. 25	Dec. 12	2,047
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Dec. 10	†Jan. 25	2,108
283	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Nov. 12	Nov. 23	2,162
376	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	Nov. 1	Nov. 1	2,439
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Oct. 14	Oct. 15	1,872
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	Nov. 26	Dec. 8	2,013
212*	48. HOEPKE, O. B., Electricity, General Applications	Dec. 15	Dec. 10	1,535
230	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Nov. 11	†Jan. 7	1,577
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Dec. 22	Dec. 24	2,547
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Dec. 2	Dec. 1	2,251
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Dec. 27	Dec. 28	2,156
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Dec. 6	Dec. 5	1,785
341	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Nov. 22	Nov. 22	2,388
102	55. BOWEN, S. T., {Bread, Pastry, and Confection Making; Cutlery / Design	Nov. 10 / †June 18	Nov. 10 / †June 26	946 / 787
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Oct. 5	Oct. 21	2,544
257*	57. NICHOLSON, O. D. O., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Drivers and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Dec. 15	Dec. 22	1,152
270*	58. DOWELL, E. F., Abrading; Typewriting	Oct. 10	Nov. 2	1,485
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats and Glue; Cement and Lime; Hides, Skins and Leather; Fuel.	Nov. 17	Nov. 19	1,637
213*	60. GLASS, R. L., Electricity; Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	Nov. 19	†Jan. 6	1,202
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	Oct. 5	Nov. 1	2,031
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage, Package and Article Carriers.	Nov. 3	Nov. 2	1,256
168	Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade-Marks / Labels and Prints	†July 1 / †July 21	†July 21 / †July 27	1,802 / 95

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

GOLDRICK *v.* SCHROEDER.

No. 2,999. Decided March 5, 1928.

INTERFERENCE—PRIORITY—RIGHT TO MAKE THE CLAIMS.

Priority *Held* properly awarded to S. on the ground that the invention in issue is not disclosed in the application of G.

APPEAL from the Commissioner of Patents. Affirmed.

Mr. Donald A. Gardiner for Goldrick.

Mr. J. H. Milans and *Mr. C. T. Milans* for Schroeder.

Before MARTIN, Chief Justice, VAN ORSDEL, Justice, and SMITH, Judge U. S. Court of Customs Appeals.

MARTIN, *C. J.*:

An appeal in an interference proceeding. The invention in question relates to certain improvements in load-securing means for industrial trucks. The interference was declared between a reissue application filed by Goldrick upon a patent issued to him on December 19, 1922, and a patent issued to Schroeder on March 4, 1924. The issue, taken from claim 1 of the Schroeder patent, reads as follows, to wit:

> An attachment for a wheeled conveyor having elevating means, comprising a pivotally supported load supporting arm, means for connecting said arm with the elevator or conveyor, load clamping means over said arm, and means whereby the weight of the load on said arm will operate automatically to effect clamping of the load when the elevator is raised.

It is explained that—

> The appliance in both the Goldrick application and in the Schroeder patent are disclosed as overhanging the end of an industrial truck whereby the lower parts of the appliances, by proper maneuvering of the trucks, may be inserted under the load to engage the bottom of the load and raise it while permitting the operators to remain on the trucks to maneuver the trucks into engageable position relative to the load.

The controlling question in the case is whether there is a common invention embodied in the Schroeder structure and the Goldrick structure "in the terms of the count."

No testimony was taken by either party. A motion to dissolve the interference was filed by Schroeder, the junior party, on the ground that Goldrick had no right to make the claim constituting the issue, in view of his original disclosure. This motion was overruled, and the Examiner of Interferences thereupon awarded priority to Goldrick, the senior party. This decision was affirmed by the Examiners in Chief. But upon appeal the Commissioner of Patents held that Goldrick had no right to make the claim constituting the count of the issue. The Commissioner accordingly reversed the decision of the Examiners in Chief and awarded priority to Schroeder. This appeal followed.

In our opinion the decision of the Commissioner of Patents is right. As stated by the Commissioner when describing the constructions of the parts,

> it is difficult to discover any common inventive subject matter or how a knowledge of Goldrick's device could, in any way, aid in devising the construction of Schroeder.

It is plain, among other things, that Goldrick's construction does not conform to the requirement that—

> the weight of the load on said arm will operate automatically to effect clamping of the load when the elevator is raised.

In Schroeder's construction when the elevator is raised the clamping of the load is effected automatically by force of the weight of the load itself, operating by means of connecting levers as described in Schroeder's patent, whereas in Goldrick's construction this result does not automatically follow the elevation of the load, but is manually accomplished by the pulling of a cable by the operator before the load is actually lifted.

The decision of the Commissioner of Patents is affirmed.

International Convention Adhesion—Spanish Zone of Morocco.

This Office has been notified by the Secretary of State of the receipt of a notice from the Swiss Legation that the Spanish Government has adhered, for the Spanish Zone of Morocco, to the Convention of the Union for the Protection of Industrial Property as revised at The Hague on November 6, 1925, the adhesion to take effect July 27, 1928.

THOMAS E. ROBERTSON,
Commissioner of Patents.

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,524,060, J. T. Stoney, Hook mechanism, decided January 30, 1928, claim 3.

Pat. 1,558,762, A. Fabrizio, Torpedo, decided June 7, 1928, claims 1 and 2.

Pat. 1,614,561, A. A. Kramer, Tank, decided July 23, 1928, claim 8.

Pat. 1,646,925, E. E. Minard, Feed collet, decided July 2, 1928, claims 5 and 6.

Pat. 1,651,168, H. N. Vickerman, Filler cap for storage tank, decided July 2, 1928, claims 1 and 2.

Pat. 1,662,262, C. C. Gates, Antiskid device, decided June 22, 1928, claim 1.

Final decisions in interference have been rendered against the following trade-marks:

T. M. 89,625, Lubricating oil, J. C. Cochran, New York, N. Y. Registered December 31, 1912. Decided July 2, 1928.

T. M. 94,778, Grass, vegetable, flower, and farm seeds and bulbs, Weeber & Don, New York, N. Y. Registered December 30, 1913. Decided July 2, 1928.

T. M. 196,482, Player pianos, E. W. Warren, doing business as Antistone Player Company, Melbourne, Victoria, Australia. Registered March 17, 1925. Decided June 21, 1928.

T. M. 201,344, Fresh vegetables, fresh grapes, fresh cantaloupes. Lee & Hickcox, El Centro, Calif. Registered July 21, 1925. Decided June 25, 1928.

T. M. 214,124, Cheese, J. S. Hoffman Company, Chicago, Ill. Registered June 15, 1926. Decided July 6, 1928.

Patents—Reissues.

[PUBLIC No. 501, 70TH CONGRESS.]

[S. 2823.]

An Act amending the statutes of the United States with respect to reissue of defective patents.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That section 4916 of the Revised Statutes of the United States be, and the same is hereby, amended to read as follows:

"SEC. 4916. Whenever any patent is wholly or partly inoperative or invalid, by reason of a defective or insufficient specification, or by reason of the patentee claiming as his own invention or discovery more than he had a right to claim as new, if the error has arisen by inadvertence, accident, or mistake, and without any fraudulent or deceptive intention, the commissioner shall, on the surrender of such patent and the payment of the duty required by law, cause a patent for the same invention, and in accordance with the corrected specification, to be reissued to the patentee or to his assigns or legal representatives, for the unexpired part of the term of the original patent. Such surrender shall take effect upon the issue of the reissued patent, but in so far as the claims of the original and reissued patents are identical, such surrender shall not affect any action then pending nor abate any cause of action then existing, and the reissued patent to the extent that its claims are identical with the original patent shall constitute a continuation thereof and have effect continuously from the date of the original patent. The commissioner may, in his discretion, cause several patents to be issued for distinct and separate parts of the thing patented, upon demand of the applicant, and upon payment of the required fee for a reissue for each of such reissued letters patent. The specifications and claims in every such case shall be subject to revision and restriction in the same manner as original applications are. Every patent so reissued, together with the corrected specifications, shall have the same effect and operation in law, on the trial of all actions for causes thereafter arising, as if the same had been originally filed in such corrected form; but no new matter shall be introduced into the specification, nor in case of a machine patent shall the model or drawings be amended, except each by the other; but when there is neither model nor drawing, amendments may be made upon proof satisfactory to the commissioner that such new matter or amendment was a part of the original invention, and was omitted from the specification by inadvertence, accident, or mistake, as aforesaid."

Approved May 24, 1928.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

968,576, C. R. Libby, Pneumatic-dispatch-tube apparatus, D. C., S. D. N. Y., Doc. E 29/104, *The Lamson Co.* v. *G. & G. Atlas Systems, Inc.* Dismissed May 25, 1928.

989,939, W. E. Allington, Dust collector, D. C., E. D. N. Y., Doc. 3607, *W. E. Allington et al.* v. *Weisberg-Baer Co., Inc.* Discontinued May 10, 1928. Same, filed Mar. 30, 1928, D. C., E. D. N. Y., Doc. 3608, *W. E. Allington et al.* v. *Estate of S. Weinstein.* Same filed Apr. 6, 1928, D. C., E. D. N. Y., Doc. 3624, *W. E. Allington et al.* v. *Meadows Blower & Pipe Works, Inc., et al.*

1,007,647, C. R. Darnall, Process of purifying water and sewage, filed May 22, 1928, D. C. Minn., 4th Div., Doc. E 996, *Wallace & Tiernan Co., Inc.*, v. *Village of Waverly, Minn.*

1,016,928, H. B. Bishop, Cleansing fabrics, D. C., S. D. N. Y., Doc. E 39/139, *H. B. Bishop et al.* v. *Superfos Co., Inc.* Defendant restrained from infringing May 28, 1928.

1,071,145, P. J. Darlington, Rotary motor, filed May 24, 1928, D. C., S. D. N. Y., Doc. E 45/208, *The Roto Co.* v. *The Ellcon Co.*

1,101,268, L. E. Fuller, Stencil sheet, D. C., W. D. N. Y., Doc. 1214–F, *A. B. Dick Co. et al.* v. *Federal Addressing Machine Corp.* Final decree May 29, 1928.

1,103,567, E. P. Cowles, Motor vehicle, filed May 25, 1928, D. C., E. D. Mich., S. Div., Doc. 2708, *Packard Motor Car Co. et al.* v. *Budd Wheel Co.*

1,118,240, W. A. Sheaffer, Attachment for fountain pens, D. C., N. D. Ala. (Birmingham), Doc. E 480, *W. A. Sheaffer Pen Co.* v. *Cromer Arteraft Pen Co., Inc.* Injunction granted June 2, 1928.

1,169,351, S. F. Quay, Conveyer cleat or flight, D. C. Wash., N. Div., Doc. 541, *S. F. Quay* v. *Tennent Steel Casting Co.* Dismissed May 21, 1928.

1,171,061, E. T. Morriss, Perambulator, mail cart, etc., filed Mar. 20, 1928, D. C., E. D. N. Y., Doc. 3566, *Marmet, Ltd.*, v. *M. S. Harrison et al.* (*Bilt Rite Baby Carriage Co.*).

1,198,246, G. A. Lyon, Buffer for motor vehicles, D. C., E. D. N. Y., Doc. 3609, *American Chain Co., Inc.*, v. *N. Glassberg* (*Popular Auto Novelty Mfg. Co.*) *et al.* Decree for plaintiff Apr. 28, 1928.

1,249,885, W. J. Barber, Combined mop and wringer, D. C., N. D. Ohio, W. Div., Doc. E 756, *The E. & N. Mfg. Co.* v. *The Delphos Mop Co. et al.* Dismissed upon plaintiff's motion (notice dated May 29, 1928).

1,395,374, E. T. Webster, Drinking fountain, filed May 23, 1928, D. C., E. D. Wis. (Milwaukee), Doc. 2317, *M. G. Webster* v. *Rundle-Spence Mfg. Co.*

1,404,879, F. C. Mock, Carburetor, D. C., S. D. N. Y., Doc. E 34/222, *Stromberg Motor Devices Co.* v. *Zenith-Detroit Corp.* Order of Nov. 1, 1926, reversed. Patent held valid and infringed (notice dated May 25, 1928).

1,433,887, W. J. Hurst, Cleansing and polishing preparation, D. C., E. D. N. Y., Doc. 3589, *E. S. Stafford, Inc.*, v. *K. Sundhop* (*Renn Mfg. Co.*). Dismissed May 11, 1928.

1,441,061, O. P. Cadmus, Plywood, filed May 22, 1928, D. C., S. D. N. Y., Doc. E 45/197, *O. P. Cadmus* v. *J. Szabo et al.*

1,466,437, P. L. Hill, Process of making character carriers for composing machine, filed Mar. 26, 1928, D. C., E. D. N. Y., Doc. 3588, *Matrix Contract Corp. et al.* v. *G. Keller.*

1,483,877, H. H. Gracey, Fluid-lift pump, D. C., S. D. Calif. (Los Angeles), Doc. E K–33–M, *H. H. Gracey* v. *Bolsa Chica Oil Co.* Dismissed for want of prosecution Jan. 12, 1928.

1,499,926, J. O. Hunt, Sheet of folded material, filed Mar. 20, 1928, D. C., E. D. N. Y., Doc. 3565, *Independent Paper Mills, Inc.*, v. *J. O. Hunt et al.*

1,532,635, J. E. Osbun, Ceiling ventilator, D. C., S. D. Calif. (Los Angeles), Doc. E N–48–M, *J. E. Osbun* v. *H. J. Stevenson.* Patent held valid and infringed May 16, 1928.

1,561,836, N. Q. Donnelly, Apron, filed May 24, 1928, D. C., S. D. N. Y., Doc. E 45/207, *Donnelly Garment Co.* v. *M. Feder* (*Broadway Merchandise Co.*). Patent held valid and infringed June 4, 1928. Same, D. C. Nebr. (Omaha), Doc. E 982, *Donnelly Garment Co.* v. *True Worth Mfg. Co.* Same, C. C. A., 8th Cir. (St. Louis), Doc. 8205, *R. Lowenbaum Mfg. Co.* v. *N. Q. Donnelly.* Same, filed Apr. 30, 1928, D. C., E. D. N. Y. Doc. 3660, *Donnelly Garment Co.* v. *L. Hirsch & Son.* Same, filed June 1, 1928, D. C. Mass., Doc. E 2981, *Donnelly Garment Co.* v. *J. Massif.* Same, filed June 2, 1928, D. C. R. I., Doc. 298, *Donnelly Garment Co.* v. *H. Siemon* (*Wellmade Mfg. Co.*).

1,566,066, H. M. Becher, Process for dyeing fur and product thereof, filed May 28, 1928, D. C., S. D. N. Y., Doc E 45/203, *H. M. Becher et al.* v. *M. Meshin et al.*

1,573,031, Bettis & Perry, Well-casing protector, filed May 4, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E N–87–M, *W. J. Bettis et al.* v. *Emo Rubber Corp. of Calif.*

1,576,149, R. Siegert, Process and apparatus for the manufacture of hollow objects of chocolate, filed June 5, 1928, D. C., S. D. N. Y., Doc. E 45/261, *T. C. Weygen. t Co.* v. *A. Van Emden.*

1,587,723, H. C. Hamer, Nail stripper, D. C., S. D. Calif. (Los Angeles), Doc. E L–4–M, *H. C. Hamer* v. *C. F. Smith.* Dismissed Mar. 9, 1928.

1,594,047, E. F. Clark, Pocket cigar lighter, filed Apr. 10, 1928, D. C., E. D. N. Y., Doc. 3625, *Clark Lighter Co., Inc.*, v. *D. Zucker* (*National Products Co.*).

1,601,575, L. C. Marshall, Piston packing, filed May 1, 1928, D. C. Mass., Doc. E 2962, *Simplex Piston Ring Co. of America, Inc.*, v. *Replacement Parts Co.* Doc. E 2963, *Simplex Piston Ring Co. of America, Inc.*, v. *Christie & Thomson, Inc.*

1,625,391, Reilly & Stone, Tool for cutting and removing pipe from wells, D. C., S. D. Calif. (Los Angeles), Doc. M–124–H, *Kammerer Corp.* v. *Midway Fishing Tool Co.* Dismissed with prejudice May 25, 1928.

1,627,382, M. Golomb, Protective device for boxes, filed May 25, 1928, D. C., S. D. N. Y., Doc. E 45/224, *M. Golomb et al.* (*Everlast Sporting Goods Mfg. Co.*) v. *S. C. & H. Mfg. Co., Inc.*

1,636,416, L. G. Handy, Track for toy electric train, filed June 4, 1928, D. C., S. D. N. Y., Doc. E 45/243, *L. G. Handy et al.* v. *The Dorfan Co.* Doc. E 45/244, *L. G. Handy et al.* v. *The Ines Mfg. Co.* Doc. E 45/245, *L. G. Handy et al.* v. *American Flyer Mfg. Co.*

1,647,861, F. M. Furey, Street button, filed May 31, 1928, D. C., N. D. Calif. (San Francisco), Doc. E 2129, *Union Tank & Pipe Co.* v. *Welded Products Co., Inc., et al.*

1,655,377, J. Leonard, Corset, filed May 23, 1928, D. C., S. D. N. Y., Doc. E 45/205, *Charis Corp.* v. *B. Weinstock* (*Bencee Corsetieres*).

1,658,261, G. Peterson, Combined coat and hat rack, D. C., S. D. N. Y., Doc. E 44/361, *G. Peterson et al.* v. *Grigor-Perry Corp.* Patent held valid and infringed May 24, 1928.

Re. 16,351, M. Caruso, Toy car wheel, filed June 4, 1928, D. C., S. D. N. Y., Doc. E 45/247, *The Lionel Corp.* v. *The Ines Mfg. Corp.* Doc. E 45/248, *The Lionel Corp.* v. *The American Flyer Mfg. Co.*

Re. 16,360, J. L. Cowen, Toy train track, filed June 4, 1928, D. C., S. D. N. Y., Doc. E 45/246, *The Lionel Corp.* v. *The Ines Mfg. Co.*

Re. 16,626, M. H. Greenewalt, Associating light and music, filed May 25, 1928, D. C. Del. (Wilmington), Doc. E 684, *M. H. Greenewalt* v. *Stanley Co. of America.*

Des. 67,013, J. Denaro, Edible container, filed Mar. 5, 1928, D. C., E. D. N. Y., Doc. 3521, *American Pastry Products Corp.* v. *D. Siegler.*

Des. 70,242, R. P. Seidel, Display pedestal, filed May 25, 1928, D. C., S. D. N. Y., Doc. E 45/223, *H. R. Mallinson & Co., Inc.*, v. *The Style Dress Co., Inc.*

Adjudicated Patents.

(C. C. A. Mass.) The Barney patent, No. 885,135, for improvement in separable cuff buttons, *Held* not infringed. *Lyons* v. *Beer & Wilde Co.*, 26 F. (2d) 599.

(C. C. A. Tenn.) The Fitch patent, No. 1,011,598, for fireplace damper, claims 1 and 4 *Held* invalid. *Peerless Mfg. Co.* v. *Chattanooga Foundry & Roofing Co.*, 26 F. (2d) 667.

(C. C. A. Ind.) The Moomy patent, No. 1,068,691, for patch for rubber articles, *Held* invalid. *Moomy* v. *G. & J. Tire Co.*, 26 F. (2d) 589.

(C. C. A. Mont.) The Carson patent, No. 1,149,495, for smelting furnace, *Held* valid and infringed. *Carson Investment Co.* v. *Anaconda Copper Mining Co.*, 26 F. (2d) 651.

(C. C. A. Mont.) The Carson patent, No. 1,302,807, for smelting furnace, *Held* valid and infringed. *Id.*

(D. C. N. Y.) The Gullborg patent, No. 1,307,733, for grease-gun fittings and nipples, *Held* valid and infringed. *Bassick Mfg. Co.* v. *Adams Grease Gun Corporation*, 26 F. (2d) 722.

(D. C. N. Y.) The Gullborg patent, No. 1,307,734, for pin fitting and coupling for grease pump, claims 14 and 15 *Held* not infringed. *Bassick Mfg. Co.* v. *C. P. Rogers & Co.*, 26 F. (2d) 724.

(D. C. N. Y.) The Gullborg patent, No. 1,307,734, for grease-gun fittings and nipples, all claims except claim 12 *Held* valid and infringed. *Bassick Mfg. Co.* v. *Adams Grease Gun Corporation*, 26 F. (2d) 722.

(D. C. Mont.) The Perkins patent, No. 1,364,304, for concentration of minerals by flotation, claims 1–4 *Held* invalid for insufficient description, but, if valid, not infringed. *Metals Recovery Co.* v. *Anaconda Copper Mining Co.*, 26 F. (2d) 736.

(D. C. Md.) The Troll patent, No. 1,458,920, for platform scale for weighing vehicles on road, claims 2 and 15 *Held* not infringed and claim 5 *Held* invalid. *Black & Decker Mfg. Co.* v. *Baltimore Truck Tire Service Corporation*, 26 F. (2d) 686.

(D. C. N. Y.) The Zerk patent, No. 1,475,980, for construction of nozzle and nipple in grease pump, claims 2, 3, and 5 *Held* not infringed. *Bassick Mfg. Co.* v. *C. P. Rogers & Co.*, 26 F. (2d) 724.

(D. C. N. Y.) The Zerk patent, No. 1,475,980, for grease-gun fittings and nipples, *Held* valid and infringed. *Bassick Mfg. Co.* v. *Adams Grease Gun Corporation*, 26 F. (2d) 722.

(C. C. A. Ill.) The Heisel patent, No. 1,486,746, for power press, *Held* not infringed. *Cincinnati Galvanizing Co.* v. *Marquette Tool & Mfg. Co.*, 26 F. (2d) 593.

Changes in Classification.

Order No. 3,068, August 1, 1928, directs:

In *class 167, Medicines* (Division 43), abolish the following subclass, the patents formerly contained therein having been placed for the most part in the new subclasses, established in this order:

6 Insecticides.

In *class 167, Medicines* (Division 43), establish the following subclasses, the patents contained therein having been taken for the most part from class 167, Medicines, subclass 6, Insecticides, abolished in this order, and subclasses 3, Disinfectants, and 12, Disinfectants, Candles and holders:

13 Poisons
Insecticides, fungicides, germicides, and disinfectants
14 Inorganic
15 Arsenic,
16 Copper,
17 Halogen compounds,
18 Hypochlorites,
19 Mercury,
20 Sulphur
21 Lime-sulphur,
22 Organic
23 Carbon disulphide,
24 Plant extracts and powders
25 Essential oils,
26 Formaldehyde,
27 Oils and waxes
28 Mineral oils,
29 Tars,
30 Carbo-cyclic compounds
31 Phenolic,
32 Naphthalene,
33 Hetero-cyclic compounds
34 Nicotine,
35 Cyanogen compounds,
36 Animal dips and sprays.
37 Mothproofing,
38 Seed disinfecting,
39 Fumigants
40 Combustible
41 Candles,
42 Suspending agents, adhesives and spreaders,
43 Oil emulsions,
44 Neutralizing compositions,
45 Herbicides,
46 Rodenticides,
47 Warfare gases,
48 Baits.
49 Limes.

In *class 167, Medicines* (Division 43), change the title of subclass 8, Disinfectants, to read *Disinfecting apparatus*, and subclass 12, Disinfectants, Candles and holders, to read *Disinfecting apparatus, Candle holders.*

Trade-Marks Canceled.

27,401. Koji, moyashi, diastase, ferments of yeast, and converting agents. Jokichi Takamine, Chicago, Ill. Registered December 3, 1895. Canceled July 28, 1928.

59,212. Koji, moyashi diastase, ferments, and converting agents. Jokichi Takamine, New York, N. Y. Registered January 1, 1907. Canceled July 28, 1928.

122,980. Certain named chemicals. Newport Chemical Works, Incorporated, Portland, Me., and Milwaukee, Wis. Registered October 1, 1918. Canceled July 28, 1928.

125,045. Certain named undergarments. David L. Fine, Boston, Mass. Registered April 8, 1919. Canceled July 28, 1928.

131,301. Wrenches and socket-wrench sets. Lee Drulard, Detroit, Mich. Registered May 11, 1920. Canceled July 28, 1928.

144,473. Mattresses and pillows. Albert H. Slater, Paterson, N. J. Registered July 5, 1921. Canceled July 28, 1928.

150,556. Auto porch beds. The Schaefer Tent & Awning Co., Denver, Colo. Registered January 3, 1922. Canceled July 28, 1928.

158,723. Infants' coats. Madeleine Kuster, Ossining, N. Y. Registered September 12, 1922. Canceled July 28, 1928.

166,542. Candies. Betty Lou College Candy Company, Atlanta, Ga. Registered April 10, 1923. Canceled July 28, 1928.

184,065. Soaps. The Sydney Ross Co., Newark, N. J. Registered May 13, 1924. Canceled July 30, 1928.

189,456. Leather gloves. John Wanamaker Philadelphia, Philadelphia, Pa. Registered September 16, 1924. Canceled July 28, 1928.

190,576. Lyes and drain solvents. The Lightnin Lye Co., Cleveland, Ohio. Registered October 14, 1924. Canceled July 28, 1928.

208,226. Lubricating oils. Pierce Petroleum Corporation, Wilmington, Del., and St. Louis, Mo. Registered January 19, 1926. Canceled July 28, 1928.

219,923. Shoes and slippers. Endicott Johnson Corporation, Endicott, N. Y. Registered October 26, 1926. Canceled July 30, 1928.

220,482. Composition shingles and roofing material. The Chatfield Manufacturing Co., Cincinnati, Ohio. Registered November 9, 1926. Canceled July 30, 1928.

221,088. Composition shingles and composition strip shingles, cement, paint, and compounds for use on roofs. The Chatfield Manufacturing Co., Cincinnati, Ohio. Registered November 23, 1926. Canceled July 30, 1928.

231,320. Certain named men's clothing. A. Garfunkel & Co., Inc., New York, N. Y. Registered August 16, 1927. Canceled July 30, 1928.

240,183. Handkerchiefs. The Acheson Harden Co., New York, N. Y. Registered March 20, 1928. Canceled July 30, 1928.

Notices of Cancellation.

U. S. PATENT OFFICE, *Washington, Aug. 2, 1928.*

William P. Saunders, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of The American Products Company, of 3265 Colerain Avenue, Cincinnati, Ohio, to effect the cancellation of the trade-mark registration of William P. Saunders, of care of Sano Mfg. Co., 310 North 18th Street, Birmingham, Ala., No. 126,897, dated October 7, 1919, and the notice of such proceeding sent by registered mail to the said William P. Saunders at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said William P. Saunders, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, Aug. 2, 1928.*

Tiger Products Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Union Supply Company, of 10 South Broad Street, Elizabeth, N. J., to effect the cancellation of the trade-mark registration of Tiger Products Company, of 1503 Merchants Bank Building and 58 East Third Street, St. Paul, Minn., No. 139,410, dated February 1, 1921, and the notice of such proceeding sent by registered mail to the said Tiger Products Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless Tiger Products Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, Aug. 2, 1928.*

Diamond Creamery Co., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of National Creamery Company, of Boston, Mass., to effect the cancellation of the trade-mark registration of Diamond Creamery Co., of Massena, N. Y., No. 84,216, dated November 21, 1917, and the notice of such proceeding sent by registered mail to the said Diamond Creamery Co. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Diamond Creamery Co., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Disclaimer.

1,673,515.—*Elmer G. Kimmich*, Akron, Ohio. CHAIN-FASTENING DEVICE. Patent dated June 19, 1928. Disclaimer filed July 28, 1928, by the patentee, assignee, *The Goodyear Tire & Rubber Company*, concurring.

Hereby enters this disclaimer to all of the claims in said application which are in the following words, to wit:

"1. A tire chain fastener comprising spaced substantially parallel walls, a tongue pivotally connected between the walls and adapted to lie therebetween when in closed position, and means constituting portions of the walls for yieldingly opposing displacement of the tongue from closed position, the tongue being formed with means to facilitate its movement to closed position.

"2. A tire chain fastener comprising spaced parallel walls provided at their upper edges with inturned portions, a tongue pivotally connected between the walls adjacent one edge of the fastener, said walls having beveled edge portions in alignment with the inturned portions adapted to force the walls apart as the tongue is moved to closed position between the walls.

"3. A tire chain fastener comprising a sheet folded to provide spaced parallel walls formed with reduced portions adjacent one edge of the fastener, a tongue pivotally secured between the walls and adapted to lie therebetween when in closed position, a hooked end constituting a part of the tongue and coacting with the reduced portions of the walls to form link receiving means, and means formed on the walls, for yieldingly opposing displacement of the tongue when in closed position.

"4. A tire chain fastener comprising spaced parallel walls having their upper edges inclined and provided with depressed portions, a tongue pivotally secured between the walls and adapted to lie therebetween when in closed position and means formed on the walls for coaction with the tongue to oppose displacement of the tongue from closed position between the walls."

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 14, 1928.

[VOL. 373. No. 2.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 226,366. OCCIDENTAL SEED COMPANY, Salt Lake City, Utah. Filed Jan. 25, 1926.



No claim is made to the words "Brand, Seeds, Idaho-Utah Mountain Grown" aside from the mark shown in the drawing.

For Field Seeds and Seed Grains.

Claims use since September, 1925.

Ser. No. 265,138. THE BURNET COMPANY, New York, N. Y. Filed Apr. 20, 1928.

FORESTITE

For Ground-Wood Products, Comprising Wood Flour, Wood Dust, Wood Meal, Wood Wool, and Sawdust.

Claims use since Jan. 1, 1927.

Ser. No. 267,881. WHITNEY-ECKSTEIN SEED CO., Buffalo, N. Y. Filed June 11, 1928.

CITY PARK

For Lawn-Grass and Field Seeds.

Claims use since Jan. 1, 1918.

Ser. No. 267,882. WHITNEY-ECKSTEIN SEED CO., Buffalo, N. Y. Filed June 11, 1928.

GREENVUE

For Lawn-Grass and Field Seeds.

Claims use since May 1, 1926.

CLASS 2.

Receptacles.

Ser. No. 267,601. PIONEER COOPERAGE CO., St. Louis, Mo. Filed June 6, 1928.



For Cooperage—Namely, Wooden Casks, Barrels, Kegs, Tubs for Packing, Storing, Handling, and Shipping, Buckets, Pails, Liquid Holders, Liquid Coolers, and Liquid Dispensers and Staves, Headings, and Shooks Therefor.

Claims use since May 1, 1894.

Ser. No. 267,602. PIONEER COOPERAGE CO., St. Louis, Mo. Filed June 6, 1928.

PIONEER

For Cooperage—Namely, Wooden Casks, Barrels, Kegs, Tubs for Packing, Storing, Handling, and Shipping, Buckets, Pails, Liquid Holders, Liquid Coolers, and Liquid Dispensers and Containers, and Staves, Headings, and Shooks Therefor.
Claims use since Jan. 1, 1867.

CLASS 3.

Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 257,690. I. MILLER & SONS, INC., Long Island City, N. Y. Filed Nov. 17, 1927. Under section 5b of the act of 1905, as amended in 1920.

I.MILLER

For Traveling Bags, Hand Bags, Trunks, Pocketbooks, Suitcases, Bill Folds, Portfolios, and Traveling Kits.
Claims use since June 20, 1927.

Ser. No. 261,817. INITIALIT, INC., Chicago, Ill. Filed Feb. 17, 1928.

Security Karier

No claim is made to the exclusive use of the word "Karier" apart from the mark shown in the drawing.
For Leather Key Cases, Letter Cases, Leather Cardcases, and Paper-Currency Cases, All for Pocket Use.
Claims use since Feb. 13, 1928.

Ser. No. 266,773. CHARLES HINDE, doing business as Sectionier Company, Wilmington, Calif. Filed May 22, 1928.

SECTIONIER.

For Sectional Trunks Capable of Being Used as Furniture.
Claims use since Apr. 9, 1928.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 249,675. PEERLESS PRODUCTS CORPORATION, Clearwater, Fla. Filed May 27, 1927.

RE-NU-SHU

No claim is made to the word "Shu" separate from the other portions of the trade-mark shown.
For Liquid Preparation for Refinishing Leather.
Claims use since about Oct. 1, 1926.

Ser. No. 252,746. TROJAN PRODUCTS & MFG. CO., Chicago, Ill. Filed July 29, 1927.



For Mineral Cleaners for Use as a General Cleaner, Water Softener, and Grease Solvent, for the Bath and Hands, for Dishes, Fixtures, Cutlery, Floors, Clothes, Tile, Marble, Mosaic, and Rugs.
Claims use since Nov. 5, 1923.

Ser. No. 268,381. NAAMLOOZE VENNOOTSCHAP INTERNATIONAL PERFUMERY COMPANY, Amsterdam, Netherlands. Filed June 20, 1928.

FÉ

For Soaps.
Claims use since May, 1926.

Ser. No. 268,476. ZIMMER SWEEPING COMPOUND CO., Minneapolis, Minn. Filed June 21, 1928.

KILLDUST

For Sweeping Compound.
Claims use since Jan. 1, 1922.

Ser. No. 268,674. RICHARD W. BOWLER, Bellingham, Wash. Filed June 26, 1928.



The signature on drawing is that of applicant.
For Waterproof Auto Top Dressing.
Claims use since June 18, 1927.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 244,777. MOHAMMED I. KITCHLEW, Chicago, Ill. Filed Feb. 23, 1927.



Applicant disclaims the descriptive phrase "Oriental Perfumes" and has no intention to appropriate the same.
For Perfume.
Claims use since Jan. 15, 1926.

Ser. No. 250,923. TORASABURO KOSEKI, Tokyo, Japan. Filed June 22, 1927.

Yakriton

For Medicines for Treatment of the Liver.
Claims use since May 1, 1927.

Ser. No. 251,179. ANEST DOXAKIS, Haynesville, La. Filed June 27, 1927.



Anest Doxakis

The portrait and signature shown in the drawing is that of applicant.
For Medicinal Preparation for the Treatment of Syphilis, Gonorrhea, Fistula, and Skin Diseases.
Claims use since Apr. 15, 1927.

Ser. No. 251,442. HAROLD HENDRIE, doing business as Hendrie & Co., Montpelier Station, Va. Filed July 2, 1927.

LUCKY

For Hair Pomade.
Claims use since June 22, 1927.

Ser. No. 251,688. CHAPMAN H. SALMONS, Dunlow, W. Va. Filed July 8, 1927.

Salmons'



The portrait appearing on drawing is that of applicant.
For Liniment for Cuts, Bruises, Stiff Joints, Sprains, Swelling, Rheumatism, Colic, Earache, Headache, Stiff Neck, Tonsilitis, Weak Kidneys, Weak Back, Sour Stomach, Itch, and Skin Irritations.
Claims use since June, 1907.

Ser. No. 256,443. BOURJOIS, INC., New York, N. Y. Filed Oct. 22, 1927.

MARGUERITE

For Toilet Preparations—viz, Face Powder and Compacts.
Claims use since Jan. 10, 1910.

Ser. No. 259,054. DYKON PRODUCTS COMPANY, Eugene, Oreg. Filed Dec. 17, 1927.

DYKON

For Antiseptic.
Claims use since Jan. 1, 1927.

Ser. No. 259,072. ENASSIE PIPPEN, Pontiac, Mich. Filed Dec. 17, 1927.

SPARTACUS

For Hair Tonic, Vanishing Cream, and Cold Cream.
Claims use since Aug. 30, 1923.

Ser. No. 261,822. JOSEPH LORE, Bayonne, N. J. Filed Feb. 17, 1928.



The portrait appearing on the drawing is a pen and ink representation of the photograph of the applicant.
For Medicine Used in the Treatment of Cancer and Other Skin Diseases.
Claims use since Dec. 14, 1927.

Ser. No. 262,766. THE PALMOLIVE-PEET COMPANY, Chicago, Ill. Filed Mar. 7, 1928.



The lining on the drawing is for shading only.
For Facial Creams.
Claims use since October, 1921.

Ser. No. 262,767. THE PALMOLIVE-PEET COMPANY, Chicago, Ill. Filed Mar. 7, 1928.



The lining on drawing is for shading only and does not indicate color.
For Facial Creams.
Claims use since October, 1921.

Ser. No. 263,072. CHEMISCHE FABRIK GÜSTROW DR. HILLRINGHAUS & DR. HEILMANN AKTIENGESELLSCHAFT, Gustrow, Germany. Filed Mar. 13, 1928.

Menolysin

For Yohimbin and Other Alkaloid or Glycosid Preparations without or with Admixtures of Hormones or Similar Substances for Oral Application or for Subcutaneous, Percutaneous, or Intravenous Injections for Treatment of Female Disorders.
Claims use since Apr. 1, 1917.

Ser. No. 263,119. OVIDIO D. FUSCO, Brooklyn, N. Y. Filed Mar. 14, 1928.



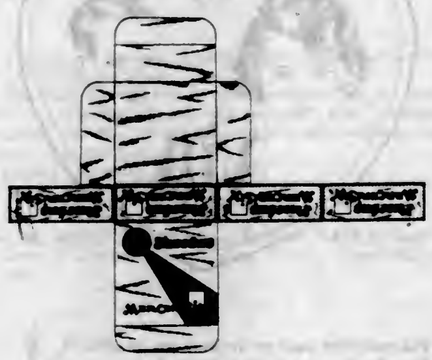
For Chemical Preparation Having a Beneficial Effect Upon the Hair by the Extermination of Dandruff.
Claims use since Apr. 19, 1927.

Ser. No. 263,475. JOHN KAHABKA, doing business as Teutonia Eye Salve Co., Buffalo, N. Y. Filed Mar. 20, 1928.



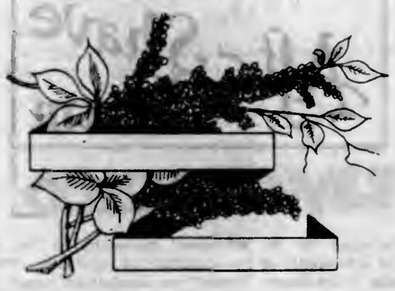
No claim is made to the exclusive use of the word "Salve."
For Eye Salve.
Claims use since Mar. 1, 1928.

Ser. No. 263,860. CHEMISCHE FABRIK JACOBUS G. M. B. H., Berlin-Charlottenburg, Germany. Filed Mar. 28, 1928.



The drawing is lined for color, the representation of the red ray being an essential feature of the mark. No claim is made to the representation of the carton or container.
For Chemical Product to be Mixed with Water and Used in Disinfecting and Restoring to Textile Fabrics the Glossy Finish and Original Coloring.
Claims use since Sept. 1, 1927.

Ser. No. 264,191. PINAUD INCORPORATED, New York, N. Y. Filed Apr. 2, 1928.



For Perfumed Toilet Waters.
Claims use since 1890.

Ser. No. 264,192. PINAUD INCORPORATED, New York, N. Y. Filed Apr. 2, 1928.



For Perfumed Toilet Waters.
Claims use since 1890.

Ser. No. 265,007. PEOPLES DRUG STORES, INC., doing business as Moret Parfumeur, Washington, D. C. Filed Apr. 17, 1928.



For Cosmetics—Namely, Face Powder and Dusting Talcum Powder.
Claims use since Mar. 31, 1927.

Ser. No. 265,008. PEOPLES DRUG STORES, INC., doing business as Moret Parfumeur, Washington, D. C. Filed Apr. 17, 1928.



For Compacts.
Claims use since Mar. 31, 1927.

Ser. No. 265,680. OAKITE PRODUCTS, INC., New York, N. Y. Filed Apr. 30, 1928.

OAKITE

For a Chemical Compound Having Cleansing, Detergent, and Water-Softening Qualities, Recommended for All Cleansing, Washing, and Polishing Purposes, Particularly for Use in the Kitchen and in the Household Generally, and for Use in Laundries, Garages, Dairies, and Industrial Plants of All Kinds; Also Recommended for Lubricating, Heat Absorbing, Cutting, Grinding, Stamping, Drawing, Stripping, Antirusting, and Neutralizing.
Claims use since Feb. 2, 1909.

Ser. No. 265,959. Z. H. FENTON, doing business as Ro-Zell's Laboratories, Des Moines, Iowa. Filed May 5, 1928.

Ro-Zell's

For Hair Tonic and a Liquid Preparation for Preserving and Restoring the Beauty of the Hair.
Claims use since Feb. 15, 1928.

Ser. No. 266,358. DALLAS DRUGGISTS SYNDICATE, Dallas, Tex. Filed May 14, 1928.

Nu-Peda

For Medicated Foot Lotion.
Claims use since Apr. 1, 1928.

Ser. No. 266,359. DALLAS DRUGGISTS SYNDICATE, Dallas Tex. Filed May 14, 1928.

DIGESTOLONE

For Medicinal Preparation for Indigestion, Dyspepsia, and Stomach Diseases.
Claims use since Mar. 15, 1928.

Ser. No. 266,360. DALLAS DRUGGISTS SYNDICATE, Dallas Tex. Filed May 14, 1928.

D. D. S.

For Insecticide.
Claims use since Apr. 1, 1928.

Ser. No. 266,367. LOUIS FRANKS, doing business as Veleur Toilet Requisite Co., Berkeley, Calif. Filed May 14, 1928.



The portraits used in drawing are fanciful.
For Hairdressing called Sleek Lox.
Claims use since Mar. 1, 1928.

Ser. No. 266,698. ERNEST W. WILLIAMS, Abington, Va. Filed May 19, 1928.

E. W. Williams
Aft-Shave Cream

The name "E. W. Williams" appearing on the drawings is a facsimile of the signature of applicant. The expression "Aft-Shave Cream" is disclaimed apart from the other features of the mark shown in the drawing.
For Cream to be Used After Shaving.
Claims use since Jan. 1, 1928.

Ser. No. 266,746. JOE PINTO, doing business as Indian Herb Medicine Co., Gary, Ind. Filed May 21, 1928.



JOE PINTO

The picture forming a part of the mark is a portrait of applicant, Joe Pinto.
For Medicine for Use in the Treatment of the Blood, Nerves, Kidneys, Liver, Biliousness, Sick Headache, Stomach Troubles, Gout, Constipation, Rheumatism, Grip, Colds, and Indigestion.
Claims use since May 5, 1923.

Ser. No. 266,817. GEORGE A. JEFFREYS, doing business as Jeffreys Laboratories, Calcium, N. Y. Filed May 22, 1928.

KLORODINE

For Disinfectant and Antiseptic, for a Compound of Wet Crystals to be Used for the Control of Blackhead in Turkeys, and for a Compound Controlling Other Poultry Diseases and Internal Parasites.
Claims use since May 1, 1928.

Ser. No. 266,850. THE COLORTONE COMPANY, INC., Milwaukee, Wis. Filed May 23, 1928.

COLORTONES

For Food Colors.
Claims use since on or about May 9, 1928.

Ser. No. 266,899. TROY CHEMICAL CO., INC., Binghamton, N. Y. Filed May 23, 1928.

Limb'rtone

For Liniment for Human Use, for Sprained and Injured Muscles, Ligaments, and Tendons.
Claims use since February 1928.

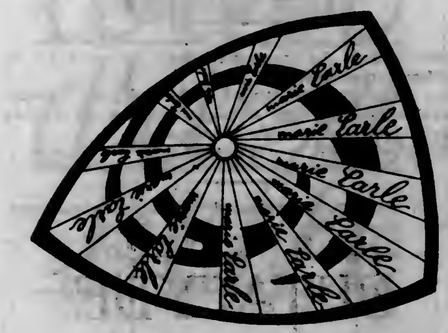
Ser. No. 266,939. S. B. LEONARDI & CO. INC., New Rochelle, N. Y. Filed May 24, 1928.

NUEVA SALUD
DE RENO



The portrait is fanciful. Applicant is the owner of registered Trade-Mark No. 218,775.
For Preparations for the Treatment of Diseases Peculiar to Women.
Claims use since 1908.

Ser. No. 267,069. MARIE EARLE, INC., New York, N. Y. Filed May 26, 1928.



For Face Powder, Dusting Powder, Perfume, and Face Tissues of Paper for Cleansing the Skin.
Claims use since Jan. 10, 1926.

Ser. No. 267,144. PHILFUELS COMPANY, Bartlesville, Okla. Filed May 28, 1928.

Philfuels
Liquefied
Industrial
Gases

The words "Liquefied Industrial Gases" are disclaimed apart from the mark shown in the drawing.
For Liquefied Industrial Gases.
Claims use since Apr. 15, 1928.

Ser. No. 267,203. N.-D.-N. PRODUCTS CO., Buffalo, N. Y. Filed May 29, 1928.



The lining in the drawing indicates the color red on a yellow background.
For Preparation for Removing Carbon from Internal-Combustion Engines and Parts Thereof and for Freeing Rusty Cohesion of Metallic Elements.
Claims use since June 25, 1923.

Ser. No. 267,407. COMMERCIAL SOLVENTS CORPORATION, Terre Haute, Ind. Filed June 4, 1928.

BUTALYDE

For Normal Butyric Aldehyde Used in the Preparation of Rubber Accelerators, Synthetic Resins, Butyric Acid, and Like Products.
Claims use since May 22, 1923.

Ser. No. 267,676. MARGUERITE TURMEL VALLIGNY, doing business as Marguerite Turmel Co., New York, N. Y. Filed June 7, 1928.



The portrait shown in drawing is fanciful.
For Hair Dyes and Hair Restorers.
Claims use since April, 1926.

Ser. No. 267,687. AMERICAN CYANAMID COMPANY, New York, N. Y. Filed June 8, 1928.

KONATE

For Insectifuges, Demothing and Moth-Resisting Compounds.
Claims use since May 31, 1928.

Ser. No. 267,715. MINERALAC LABORATORIES, Brooklyn, N. Y. Filed June 8, 1928.

MINERA-LAC

For Medical Preparation—Namely, an Internal Lubricant, Laxative, and Antacid.
Claims use since June 1, 1928.

Ser. No. 267,726. MOLLY SCHMIDT, doing business as M. Schmidt, Auburn, Me. Filed June 8, 1928.



The words "Root" and "Liniment" appearing on the drawing are descriptive and necessarily form no part of the mark and are therefore disclaimed.
For Liniment Used for Rubbing All Affected Parts of the Body Where Soreness Exists.
Claims use since Feb. 15, 1924.

Ser. No. 267,808. STANDARD PRODUCTS CO., Jacksonville, Fla. Filed June 9, 1928.

VANS

For Liniment Used in the Treatment of Sore Throat, Rheumatic Pains, Fresh Cuts, Tetter, Insect Bites, Mange and Scalp, Muscular Pains, Headache, Neuralgia, Cough and Colds, Asthma, Hay Fever, and Lumbago.
Claims use since March, 1923.

Ser. No. 267,809. SWAN-MYERS COMPANY, Indianapolis, Ind. Filed June 9, 1928.

CALCICOL

For Calcium Guaiacol Sulphonate.
Claims use since Mar. 15, 1928.

Ser. No. 267,901. PORCELA-RADAX CO., Pittsburgh, Pa. Filed June 12, 1928.

RADAX

For Drainpipe Solvents.
Claims use since May 15, 1928.

Ser. No. 267,917. ELIZABETH ARDEN, INC., New York, N. Y. Filed June 13, 1928.

L'Etoile
d'Elizabeth

For Perfume, Toilet Water, Skin Creams, Toilet Powder, Skin Lotions, and Bath Salts.
Claims use since May 1, 1928.

Ser. No. 267,918. ELIZABETH ARDEN, INC., New York, N. Y. Filed June 13, 1928.

Le Bouquet
d'Elizabeth

For Perfume, Toilet Water, Skin Creams, Toilet Powder, Skin Lotions, and Bath Salts.
Claims use since May 1, 1928.

Ser. No. 267,919. ELIZABETH ARDEN, INC., New York, N. Y. Filed June 13, 1928.

La Jardin
d'Elizabeth

For Perfume, Toilet Water, Skin Creams, Toilet Powder, Skin Lotions, and Bath Salts.
Claims use since May 1, 1928.

Ser. No. 267,920. ELIZABETH ARDEN, INC., New York, N. Y. Filed June 13, 1928.

le rêve
d'éliza
beth

For Perfume, Toilet Water, Skin Creams, Toilet Powder, Skin Lotions, and Bath Salts.
Claims use since May 1, 1928.

Ser. No. 267,921. ELIZABETH ARDEN, INC., New York, N. Y. Filed June 13, 1928.

la jorie d'elizabeth

For Perfume, Toilet Water, Skin Creams, Toilet Powder, Skin Lotions, and Bath Salts.
Claims use since May 1, 1928.

Ser. No. 267,945. GERARD, INC., New York, N. Y. Filed June 13, 1928.



For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Mar. 13, 1927.

Ser. No. 268,097. JULIA B. HERLIHY, Lynbrook, N. Y. Filed June 15, 1928.

Glyalco

For Face and Hand Lotion.
Claims use since Apr. 22, 1928.

Ser. No. 268,307. F. AD. RICHTER & CO. OF NEW YORK, Brooklyn, N. Y. Filed June 19, 1928.

PAIN-EXPELLER

For Liniment for Rheumatism, Gout, Neuralgia, Lumbago, Colds, Sprains, Bruises, and Cramps in the Stomach.
Claims use since Mar. 1, 1869.

Ser. No. 268,369. WILLIAM E. GROVE, Chambersburg, Pa. Filed June 20, 1928.

COD-O-CIDE

For Tree Bands Bearing Insecticidal Material.
Claims use since May 17, 1928.

Ser. No. 268,441. E. F. HOUGHTON & CO., Philadelphia, Pa. Filed June 21, 1928.

LEATHERLUBRIC

For Compounds for Processing and Tanning Leather.
Claims use since June 1, 1928.

Ser. No. 268,514. RUPPEL ET FILS, INC., New York, N. Y. Filed June 22, 1928.

KA·LO·RIC

For Plastic Mixture for Facial and Skin Treatment.
Claims use since Mar. 1, 1928.

Ser. No. 268,552. JACK MARGOLIS, Waterbury, Conn. Filed June 23, 1928.



For Chemical Bleaching Preparation for Laundry and Household Use.
Claims use since Dec. 1, 1926.

Ser. No. 268,623. MULKEY SALT CO., Detroit, Mich. Filed June 25, 1928.



For Salt.
Claims use since about May 18, 1928.

Ser. No. 268,811. QUIX INC., New York, N. Y. Filed June 28, 1928.

QUIX

For Preparation to Stop Runs in Hosiery.
Claims use since May 1, 1928.

CLASS 7.

Cordage.

Ser. No. 268,607. HENRY & ALLEN, Auburn, N. Y. Filed June 25, 1928.

SENTINEL

For Rope, Cord, and Twine.
Claims use since Mar. 19, 1928.

CLASS 8.

Smokers' Articles, Not Including Tobacco Products.

Ser. No. 266,834. SPANG NOVELTY CORPORATION, New York, N. Y. Filed May 22, 1928.

BATHO

For Base-Metal Containers for Cigarettes.
Claims use since about Mar. 15, 1928.

CLASS 10.

Fertilizers.

Ser. No. 269,110. GEORGIA CHEMICAL WORKS, Augusta, Ga. Filed July 5, 1928.

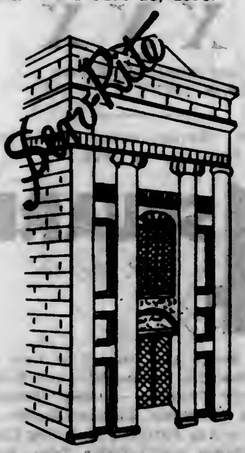
CARDINAL

For Fertilizers.
Claims use since 1905.

CLASS 11.

Inks and Inking Materials.

Ser. No. 268,555. THE NATIONAL BANK SUPPLY CO., Milwaukee, Wis. Filed June 23, 1928.



For Typewriter Ribbons and Carbon Paper.
Claims use since Jan. 2, 1927.

CLASS 12.

Construction Materials.

Ser. No. 252,722. THE MONARCH CEMENT COMPANY, Humboldt, Kans. Filed July 29, 1927.



For Portland Cement.
Claims use since 1909.

Ser. No. 262,389. BITUMULS CORPORATION, San Francisco, Calif. Filed Feb. 29, 1928.

BITUMULS

For All Kinds of Bituminous Compounds and Emulsions Miscible in Water, Used for Road-Making and Roofing Materials.

Claims use since Dec. 1, 1927.

Ser. No. 264,857. WELT & SONS PAPER COMPANY, Detroit, Mich. Filed Apr. 14, 1928.

TRIPLE

XXX

For Building and Insulating Papers.

Claims use Mar. 8, 1927.

Ser. No. 266,409. WEYERHAEUSER FOREST PRODUCTS, St. Paul, Minn. Filed May 14, 1928.

4 SQUARE

For Lumber, Rough and Dressed or Run to Any Pattern—Namely, Sawmill, Planing-Mill, and Sash, Door, and Millwork; Factory Products—Namely, Timbers, Railway Ties, Dimension Materials, Planks, Boards, Rough and Dressed or Run to Any Pattern; Finishing Lumber, Framing Lumber, Exterior and Interior Trim, Beams, Siding and Shakes, Shingles, Mouldings, Lath, Flooring, Sash, Doors, Frames, Posts, Poles, and Piling.

Claims use since on or about May 1, 1928.

Ser. No. 267,775. THE KELLEY ISLAND LIME AND TRANSPORT COMPANY, Cleveland, Ohio. Filed June 9, 1928.



Said trade-mark consists of a double blue circle bearing the name of the above company printed in blue letters. Within this circle is inscribed a heavy blue triangle, across the top of which in orange letters appears the words "Ground Lime" and on the sides of the triangle in white letters the words "Made at Buffalo, N. Y." In the space between the top of the triangle and the inside circle appears the inscription in blue letters and figures "280 Lbs. Net Wt." Inscribed within the triangle is the picture of a charging buffalo, black and orange in color. Said The Kelley Island Lime and Transport Company hereby disclaims the use of the words "280 Lbs. Net Wt. Ground Lime," and "Made at Buffalo, N. Y.," apart from the mark shown on said drawing.

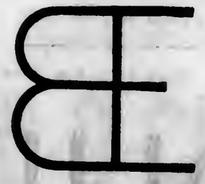
For Ground Lime.

Claims use since Apr. 1, 1928.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 259,100. BRAKE EQUIPMENT AND SUPPLY COMPANY, Chicago, Ill. Filed Dec. 19, 1927.



For Repair Parts for Air-Brake Equipment—Namely, Bolts, Nuts, Studs, Valve Bushings, Valves, Cotters, Seats, Swivels, Screws, Stems, Valve Springs, Valve Caps, Cocks, Cock Handles, Cock Keys, Cock Caps, Nipples, Couplings, Valve Cages, Valve Caps, Valve Cases, Valve Plates, Keys, Washers, and Plugs.

Claims use since Feb. 1, 1923.

Ser. No. 267,295. THE A. & F. BROWN COMPANY, Elizabethport, N. J. Filed June 1, 1928.

AFB

For Bibs, Bushings, Caps, Steam Square-Head Cocks, Stop and Waste Cocks, Couplings, L's, T's, Gages, Nut Locks for Couplings and Other Parts, Nipples, Plugs, Unions, and Valves, All of Which are Metal Fittings for Metal Pipes and the Like.

Claims use since May 15, 1928.

Ser. No. 269,016. CARR CHAIN WORKS INC., Troy, N. Y. Filed July 3, 1928.



No claim is made to the representation of the article apart from the mark with which it is shown.

For Coil Chain, Crane Chain, Dredge Chain, Stud Chain, Log Chains, Stay Chains, Pole Chains, Stretcher Chains, Machine Chains, Tire Chains, and Other Chains Used in Hardware and Saddlery Lines.

Claims use since on or about Jan. 1, 1925.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 266,412. AMERICAN SHEET AND TIN PLATE COMPANY, Pittsburgh, Pa. Filed May 15, 1928.

KEYSTONE COPPER STEEL
AMERICAN
SHEET AND TIN PLATE COMPANY
PITTSBURGH
APOLLO BEST BLOOM

No claim is made to the words "Copper Steel" and "Sheet and Tin Plate Company, Pittsburgh" apart from the mark as shown in the drawing.

For Rolled Iron and Steel Sheets and Plates, Copper Bearing Sheets and Plates, Galvanized Sheets and Plates, Tin and Terne Plates.

Claims use since Apr. 27, 1928.

Ser. No. 266,846. AMERICAN NICKELOID COMPANY, Peru, Ill. Filed May 23, 1928.

CHROMALOID

For Chromium-Coated Sheets and Chromium-Coated Rolls of Sheet Metal.

Claims use since May 11, 1928.

CLASS 15.

Oils and Greases.

Ser. No. 261,933. AMERICAN OIL WORKS CO., Titusville, Pa. Filed Feb. 20, 1928.



For Lubricating Oils and Greases.

Claims use since Feb. 1, 1927.

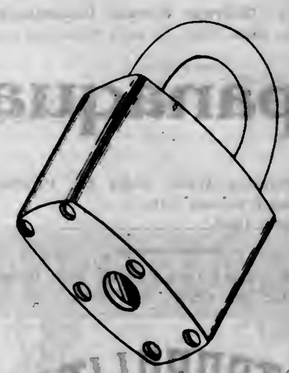
Ser. No. 265,778. CHICAGO MOTOR OIL COMPANY, Chicago, Ill. Filed May 2, 1928.

RED LOCK

For Lubricating Oils

Claims use since December, 1927.

Ser. No. 265,779. CHICAGO MOTOR OIL COMPANY, Chicago, Ill. Filed May 2, 1928.



For Lubricating Oils.

Claims use since December, 1927.

Ser. No. 266,290. H. F. WILCOX OIL & GAS COMPANY, Tulsa, Okla. Filed May 11, 1928.



The right to exclusive use of the words "Tulsa, Okla." is disclaimed apart from the other features of the mark shown. The lining of the drawing is for shading purposes only.

For Gasoline, Crude Oil, Illuminating Oil, Fuel Oil, and Lubricating Oil.

Claims use since Feb. 22, 1924.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 262,475. JAMES A. MCCAFFERTY & SONS MANUFACTURING COMPANY, INC., also doing business as Roebling Color Works, Brooklyn, N. Y. Filed Mar. 1, 1928.

MACA-LITE

For Ready-Mixed Paints—Namely, Stains and Enamels.
Claims use since 1913.

Ser. No. 263,572. GÜNTHER WAGNER, Hanover, Germany. Filed Mar. 21, 1928.

Japanaqua

For Hand Printing Water Color for Printing from Wood Blocks and Linoleum Cuts.
Claims use since 1913.

Ser. No. 264,033. JOHN LUCAS & CO., INC., Philadelphia, Pa. Filed Mar. 30, 1928.

METROPOLITAN

For Dry, Paste, and Ready-Mixed Paints; Stains, Primers, Paste and Liquid Fillers for Wood, Paint Enamels, White Zinc, White Lead, Varnishes, Japans, and Dry and Fresco Paint and Pigment Colors Used for Mixing and Grinding in Oil or Other Vehicles and for Tinting Calcimines.
Claims use since 1887.

Ser. No. 266,575. BERRY BROTHERS, INCORPORATED, Detroit, Mich. Filed May 18, 1928.

BERRYLOID

For Lacquers, Reducers, Ready-Mixed Paint, and Primers.
Claims use since on or about Aug. 1, 1924.

Ser. No. 266,576. BERRY BROTHERS, INCORPORATED, Detroit, Mich. Filed May 18, 1928.

Berrycraft

For Varnish, Stain, Combination of Varnish and Stain, and Paint Enamel.
Claims use since on or about Oct. 1, 1912.

Ser. No. 267,105. ACME WHITE LEAD & COLOR WORKS, Detroit, Mich. Filed May 28, 1928.

SEAL-TEX

The word "Seal" is disclaimed apart from the mark shown in the drawing.
For Painters' Glass and Flat Finishes; Mixed, Ready-Mixed, Cold-Water, and Paste Paints; Varnishes, Lacquers, Painters' Wall Sizings, and Varnish Lacquers.
Claims use since about July 2, 1925.

Ser. No. 267,859. RINSHED-MASON CO., Detroit, Mich. Filed June 11, 1928.

RIMACO

For Paints, Paint Enamels, Varnishes, and Lacquers in Both Liquid and Paste Forms.
Claims use since January, 1928.

Ser. No. 267,860. RINSHED-MASON CO., Detroit, Mich. Filed June 11, 1928.

R-M

For Paints, Paint Enamels, Varnishes, and Lacquers in Both Liquid and Paste Forms.
Claims use since January, 1925.

Ser. No. 268,913. CAMEL LEAD, COLOR & CHEMICAL PRODUCTS MFG. CORP., Brooklyn, N. Y. Filed June 30, 1928.



For Colors in Oil, White Lead, and Combination White Lead.
Claims use since about Jan. 1, 1928.

CLASS 17.

Tobacco Products.

Ser. No. 268,147. DE NOBILI CIGAR COMPANY, New York, N. Y. Filed June 16, 1928.



No registration rights are claimed for the word "Sigari" apart from the mark shown in the drawing. The drawing is lined for the colors red and green.
For Cigars.
Claims use since Jan. 2, 1915.

Ser. No. 268,361. FEDERAL CIGAR COMPANY, INC., Red Lion, Pa. Filed June 20, 1928.



The drawing is lined to indicate the color red. The portrait shown in the drawing is fanciful.
For Cigars.
Claims use since Jan. 1, 1908.

Ser. No. 268,753. A. SANTAELLA & CO., INC., New York, N. Y. Filed June 27, 1928.

TONY'S TAMPA SPECIALS

No claim is made to the words "Tampa Specials" appearing on the drawing except in the particular arrangement and association shown.
For Cigars.
Claims use since June 15, 1928.

Ser. No. 269,041. STANDARD CIGAR COMPANY, Pittsburgh, Pa. Filed July 3, 1928.

SILVER WINGS

For Cigars.
Claims use since June 15, 1928.

Ser. No. 269,054. THOMAS E. OFIESH, Altoona, Pa. Filed July 3, 1928.



For Cigarettes.
Claims use since June 19, 1928.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 240,863. THE KEMITEX PRODUCTS COMPANY, Akron, Ohio. Filed Dec. 2, 1926.

KEMI-SUEDE

No claim is made to the exclusive use of the word "Suede" apart from the mark as shown in the drawings.
For Automobile Sun Curtains and Storm Curtains.
Claims use since Apr. 14, 1925.

Ser. No. 267,420. HUPP MOTOR CAR CORPORATION, Detroit, Mich. Filed June 4, 1928.



The shading shown in the drawing represents the colors red and blue. No claim is made to the exclusive use of the wording shown in the drawing with the exception of the words "Hupp Mark."

For Used Automobiles.

Claims use since about May 23, 1928.

Ser. No. 268,693. HOUDE ENGINEERING CORPORATION, Buffalo, N. Y. Filed June 26, 1928.

HOO-DYE

For Automobile Accessories—Namely, Shock Absorbers.

Claims use since about September, 1920.

Ser. No. 268,694. HOUDE ENGINEERING CORPORATION, Buffalo, N. Y. Filed June 26, 1928.

HOUDAILLE

For Automobile Accessories—Namely, Shock Absorbers.

Claims use since November, 1918.

CLASS 20.

Linoleum and Oiled Cloth.

Ser. No. 266,508. ARMSTRONG CORK COMPANY, Pittsburgh and Lancaster, Pa. Filed May 17, 1928.

ACCOLIN

For Linoleum and Felt-Base Floor Coverings.

Claims use since May 7, 1928.

Ser. No. 269,091. CONGOLEUM-NAIRN, INC., Kearny, N. J. Filed July 5, 1928.

Gold-Seal

For Printed Linoleum, Plain Linoleum, and Cork Carpet.

Claims use since about Apr. 15, 1920.

Ser. No. 269,186. DEUTSCHE LINOLEUM-WERKE A.-G., Bietigheim, Germany. Filed July 6, 1928.



The trade-mark consists of the capital letters "D L" placed above the capital letter "W" on a dark-colored square and a small rectangular spot of the same color as the letters above the letter "L," the square being surrounded by a square line.

For Linoleum and Products Resembling Linoleum.

Claims use since Dec. 20, 1926.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 248,874. BRADY MANUFACTURING CO., Detroit, Mich. Filed May 12, 1927.



No claim is made to the word "Lite" and the word "Portable" apart from the mark as shown.

For Portable Electric Lights.

Claims use since Jan. 4, 1927.

Ser. No. 258,634. THE HAMMARLUND MANUFACTURING COMPANY, INC., New York, N. Y. Filed Dec. 8, 1927.

MIDLINE

For Electric Condensers Particularly for Radio Receiver Circuits.

Claims use since about September, 1926.

Ser. No. 259,132. THE PILOT ELECTRIC MANUFACTURING CO. INC., Brooklyn, N. Y. Filed Dec. 19, 1927.

REDI-BLOX

For Audiofrequency and Radiofrequency Amplification and Detector Units for Radio Receiving Apparatus.

Claims use since Aug. 1, 1927.

Ser. No. 260,249. UTAH ELECTRIC RADIO COMPANY, Salt Lake City, Utah. Filed Jan. 17, 1928.



For Radio Receiving Sets and Parts Thereof.

Claims use since Sept. 20, 1927.

Ser. No. 261,602. C. J. ANDERSON & CO., Chicago, Ill. Filed Feb. 13, 1928.



For Electric Controllers for Motors, Automatic Starters and Control Devices for Motors, Electrical Switches, Hatchway Junction Boxes, Brake Magnets, Floor Selectors, Push-Button Stations, and Door Interlocks.

Claims use since 1923.

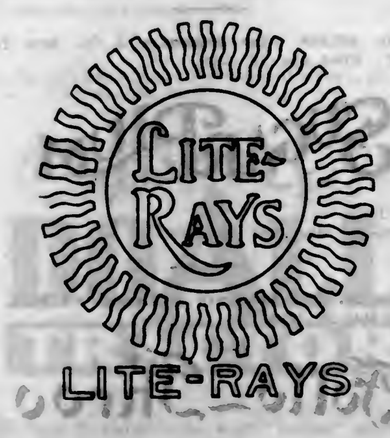
Ser. No. 263,274. LOCKE INSULATOR CORPORATION, Baltimore, Md. Filed Mar. 16, 1928.

REDHEAD

For Insulator Supporting Pins.

Claims use since Jan. 7, 1928.

Ser. No. 265,668. LITE RAY UTILITIES CORPORATION, also doing business as Lite-Rays Cooker Co., Plainfield, N. J. Filed Apr. 30, 1928.



For Electric Cookers and Bakers.

Claims use since Feb. 10, 1928.

Ser. No. 265,874. DIAMOND ELECTRIC CORPORATION, Newark, N. J. Filed May 4, 1928.



The vertical lines shown in the drawing upon the large diamond figure and also upon the narrow border of the rectangular figure indicate the color red. The dotted lines upon the small diamond figures are intended for shading only.

For Electrical Equipment Comprising Electron Tubes and Flash Lights.

Claims use since Apr. 5, 1928.

Ser. No. 266,910. BASTIAN-MORLEY CO., also doing business as Gas and Electric Heater Co., La Porte, Ind. Filed May 24, 1928.

INVINCIBLE

For Electric Water Heaters.

Claims use since Jan. 12, 1928.

Ser. No. 266,917. THE CUTLER-HAMMER MFG. CO., Milwaukee, Wis. Filed May 24, 1928.



The drawing is lined to indicate the colors orange and blue. No claim is made to the exclusive use of the words "Motor Control, Pioneer Manufacturers of Electric Control Apparatus," and "Milwaukee New York," apart from the mark shown in the drawing.

For Electric Motor Controllers.

Claims use since May 2, 1928.

Ser. No. 267,222. AUTOMATIC SIGNAL CORPORATION, New Haven, Conn. Filed May 31, 1928.

ASCO

For Automatic Electric Traffic-Control Systems.
Claims use since Sept. 1, 1927.

Ser. No. 267,244. CRESCENT INSULATED WIRE & CABLE CO. INC., Trenton, N. J. Filed May 31, 1928.

CRES CORD

Applicant disclaims exclusive use of the word "Cord" apart from the mark shown in the drawing.
For Rubber-Sheathed Portable Electric Cord.
Claims use since about April, 1928.

Ser. No. 267,539. THE CHASE-SHAWMUT COMPANY, Newburyport, Mass. Filed June 6, 1928.

"Awake at the Switch"

For Fuses, Fuse Wire, Fuse Links, Fuse Blocks, and Ground Clamps.
Claims use since Jan. 18, 1928.

Ser. No. 267,595. LEE-O-LECTRIC MFG. CO., INC., Monroe, Mich. Filed June 6, 1928.

"Snap"

For Electric Cigar Lighters.
Claims use since Mar. 17, 1928.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 250,997. JUNIOR WHEEL GOODS CORPORATION, Kokomo, Ind. Filed June 23, 1927.

JUNIOR WHEEL GOODS CORP. BLUE RIBBON LINE SEAL OF QUALITY BUY THE BEST KOKOMO INDIANA U.S.A.

No claim is made to the exclusive use of the words "Blue Ribbon Line, Buy the Best, Kokomo, Indiana, U. S. A." apart from the mark as shown.
For Scooters, Kiddie Cars, Coaster Wagons, and Wheeled Toys.
Claims use since Aug. 19, 1926.

Ser. No. 263,671. SELCHOW AND RIGHTER CO., Brooklyn, N. Y. Filed Mar. 23, 1928.

IT?

For Card Games.
Claims use since Feb. 28, 1928.

Ser. No. 265,088. GEO. BORGFELDT & CO., New York, N. Y. Filed Apr. 19, 1928.

SUGAR PLUM

For Dolls.
Claims use since Mar. 22, 1928.

Ser. No. 267,131. BENJAMIN O. LANTZ, Oak Park, Ill. Filed May 28, 1928.

Follo-Thro

For Golf Clubs.
Claims use since May 23, 1928.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 252,847. INTERNATIONALE FEUERLÖSCHER-GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Berlin-Charlottenburg, Germany. Filed Aug. 1, 1927.

Total

For Portable Fire Extinguishers.
Claims use since 1912.

Ser. No. 254,354. MORRIS D. KOPPLE, New York, N. Y. Filed Sept. 3, 1927.

AUTOMACONE

For Automatic Machinery for the Production of Ice-Cream Cones.
Claims use since July 15, 1926.

Ser. No. 263,568. UNIVERSAL ROAD MACHINERY CO., Kingston, N. Y. Filed Mar. 21, 1928.

RELIANCE

For Road-Building and Quarry Equipment—Namely, Bucket Elevators, Belt Conveyors, Revolving Screens, Shaker Screens, Car Underloaders, Pulverizers, Automatic Feeders, Bin Gates, Chip Spreaders, Bar-Type and Revolving Grizzly Screens, and Coal Breakers.
Claims use since Jan. 1, 1920.

Ser. No. 264,001. ADVANCE-RUMELY COMPANY, La Porte, Ind. Filed Mar. 30, 1928.

RUMELY DOALL TRACTOR

No claim is made to the word "Tractor" apart from the association as shown.
For Tractors and Parts Thereof.
Claims use since about Mar. 24, 1928.

Ser. No. 264,048. THE PRESTO SIGNAL COMPANY, San Francisco, Calif. Filed Mar. 30, 1928.

PRESTO

The representation of the hand is disclaimed apart from the mark as shown.
For Mechanical Direction Indicators for Motor Vehicles.
Claims use since Feb. 1, 1928.

Ser. No. 265,956. DEMCO, INCORPORATED, Baltimore, Md. Filed May 5, 1928.

MARDO

For Vises and Spraying Outfits Comprising Air Pumps, Spray Guns, Air Purifiers, and Attachments Necessary to Operation for Domestic and Industrial Uses.
Claims use since Nov. 10, 1927.

Ser. No. 266,832. D. B. SMITH & COMPANY, INC., Utica, N. Y. Filed May 22, 1928.

INDIAN

For Hand and Power Operated Sprayers, Spray Pumps, Pumps, Fire Pumps, Spray Guns, and Air Brushes.
Claims use since on or about May 1, 1925.

Ser. No. 266,931. J. A. HENCKELS, Solingen, Germany. Filed May 24, 1928.

For Knife Letter Openers.
Claims use since 1731.

Ser. No. 267,121. HUDSON MANUFACTURING CO., Minneapolis, Minn. Filed May 28, 1928.

AIR-LINE

For Sprayers and Spraying Attachments for Household and Indus'rial Uses.
Claims use since about May 16, 1928.

Ser. No. 267,336. THE BLACK & DECKER MANUFACTURING CO., Towson, Md. Filed June 2, 1928.



For Electric Drilling Sets Sold as a Unit Comprising the Parts Thereof and the Case Therefor.
Claims use since May 16, 1928.

Ser. No. 267,884. AMERICAN-LAFRANCE AND FOAMITE CORPORATION, Elmira and New York, N. Y. Filed June 12, 1928.

ALFOAM

For Hand-Operated Portable and Stationary Fire-Extinguishing Apparatus and Parts Thereof.
Claims use since on or about Apr. 1, 1928.

Ser. No. 267,893. ANTHONY P. GIUNTA, doing business as Giunta Brothers Mfg. Co., Philadelphia, Pa. Filed June 12, 1928.

PRIMO

For Fruit Presses, Fruit and Cider Crushers, Macaroni Machines, and Kitchen Equipment, Such as Catsup Machines, Meat Grinders, Coffee Roasters, and Coffee Mills.
Claims use since Apr. 1, 1928.

Ser. No. 268,257. ERNEST UFF, Chester, Pa. Filed June 18, 1928.

UFFTITE

For Beam Heads for Textile-Loom Beams.
Claims use since about Apr. 24, 1928.

Ser. No. 268,334. AMERICAN CUPTOR CORPORATION, New York, N. Y. Filed June 20, 1928.



For Machine for Vending Soft Drinks.
Claims use since May 1, 1928.

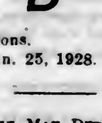
Ser. No. 268,491. THE DORR COMPANY, New York, N. Y. Filed June 22, 1928.

DETRITOR

For Apparatus for the Treatment of Solids Suspended in Liquids, and More Particularly for the Classification of Suspended Solids and the Removal of Such Solids—Namely, Classifiers, Bowl Classifiers, and Mechanically-Cleaned Grit Chambers.
Claims use since Feb. 21, 1928.

Ser. No. 268,493. FLEXIBLE ENGINEERING CORPORATION, New York, N. Y. Filed June 22, 1928.

DOUBLE-D



For Gears and Pinions.
Claims use since Jan. 25, 1928.

Ser. No. 268,875. THE MAY DEPARTMENT STORES COMPANY, St. Louis, Mo. Filed June 29, 1928.

MAYCO

For Razor Blades.
Claims use since Apr. 1, 1928.

Ser. No. 268,966. CHRYSLER CORPORATION, Detroit, Mich. Filed July 2, 1928.

SILVER DOME

For Internal-Combustion Engines.
Claims use since June 15, 1928.

CLASS 24.

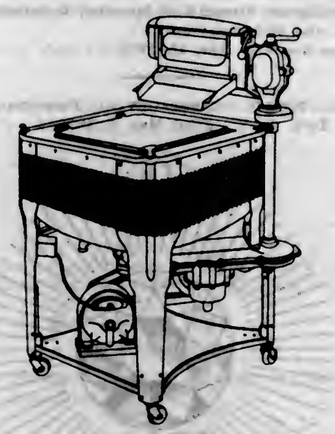
Laundry Appliances and Machines.

Ser. No. 269,069. ALTORFER BROS. COMPANY, East Peoria, Ill. Filed July 5, 1928.



The mark consists of a brown band around the body of the tub of the machine as well as around the body of the centrifugal drier. The drawing is lined for brown. No claim is made to the representation of the washing machine and centrifugal drier per se.
For Laundry Washing Machines of the Centrifugal Drier Type.
Claims use since on or about January, 1928.

Ser. No. 269,070. ALTORFER BROS. COMPANY, East Peoria, Ill. Filed July 5, 1928.



No claim is made to the representation of the washing machine per se. The mark consists of a brown band around the body of the tub of the machine. The drawing is lined for brown.
For Laundry Washing Machines of the Wringer Type.
Claims use since on or about January, 1928.

CLASS 25.

Locks and Safes.

Ser. No. 263,835. JOSEPH SPECTOR, New York, N. Y. Filed Mar. 27, 1928.



Applicant disclaims exclusive right to the use of the word "Protection" and the representation of a safe except as the same are used in connection with the other features of the mark shown in the drawing.
For Safes and Metal Filing Cabinets and Closets in the Nature of Safes.
Claims use since Feb. 16, 1928.

Ser. No. 267,961. INTERNATIONAL TIME RECORDING COMPANY OF NEW YORK, Endicott, N. Y. Filed June 18, 1928.

RECORDOLOCK

For Locks Having Provisions for Making a Record upon an Operation of the Lock.
Claims use since about Dec. 29, 1927.

Ser. No. 268,520. THE STANLEY WORKS, New Britain, Conn. Filed June 22, 1928.



The trade-mark consists of a yellow background forming the body of applicant's label and divided by a vertical line into two panels or fields. On the left of the vertical line appears the name "Stanley" in a notched oblong of blue-black color and the letters "S. W." in a heart of the same color, the drawing being lined to indicate such colors. No claim is made to a label per se.
For Window-Sash Fasteners, Latches, Bolts for Doors and Windows, Shutter Bars, and Door Fasteners.
Claims use since Mar. 29, 1928.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 237,604. HOUSTON ENGINEERS, Houston, Tex. Filed Sept. 23, 1926.

H·E

For Apparatus for Ascertaining the Quantity and Quality of Fluid in an Earth Stratum in a Well Bore.
Claims use since Feb. 15, 1925.

Ser. No. 259,095. THE ANDERSON COMPANY, Gary, Ind. Filed Dec. 19, 1927.

MOTECTOR

For Devices for Showing and Warning of Abnormal Conditions in Combustion-Engine Cooling Systems.
Claims use since Nov. 12, 1927.

Ser. No. 259,713. THE DEVRY CORPORATION, Chicago, Ill. Filed Jan. 5, 1928.

DeVry Chicago

The word "Chicago" is disclaimed apart from the mark shown in the drawing.
For Moving-Picture Projectors, Cameras, Stereopticons, Screens for Use in Connection with Picture-Projecting Apparatus, Moving-Picture Films (Positive and Negative), and Lenses for Cameras and Picture-Projecting Apparatus.
Claims use since December, 1922.

Ser. No. 266,014. JOHN B. BASKERVILLE, Roanoke, Va., assignor to Impactograph Corporation, Roanoke, Va., a Corporation of Virginia. Filed May 7, 1928.

IMPACTOGRAPH

For Impact Recorders.
Claims use since September, 1927.

Ser. No. 266,057. TOLEDO SCALE COMPANY, Toledo, Ohio. Filed May 7, 1928.

REBUILT and CERTIFIED by TOLEDO SCALE CO. CERTIFIED Toledo, Ohio

The words "Rebuilt" and "Certified" as used in a descriptive sense and the words "Toledo, Ohio" are disclaimed apart from the mark as shown.
For Weighing Scales, Weighing Machines, Weighing Apparatus, Counting Machines, Dynamometers, Balance-Testing Machines, and Instruments for Measuring Tension, Resilience, Strength of Material, Resistance to Distortion, and Moisture Content.
Claims use since Apr. 15, 1928.

Ser. No. 266,178. TIFFANY-STAHL PRODUCTIONS, INC., New York, N. Y. Filed May 9, 1928.

For Moving Pictures.
Claims use since August, 1926.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 236,893. SALLAN INC., Detroit, Mich. Filed Sept. 4, 1926.

S

For Finger Rings.
Claims use since June 1, 1926.

Ser. No. 258,615. ALPHA GAMMA DELTA FRATERNITY, New York, N. Y. Filed Dec. 8, 1927.

ΑΓΔ

For Fraternity Badges, Lapel Buttons, Scarf, Lapel and Breast Pins; Cuff Links, Tie Clasps, Charms and Finger Rings, Belt Buckles, and Ornamental Shields, All of Precious Metal.
Claims use since July, 1919.

Ser. No. 260,487. THE BRASSLER COMPANY, Newark, N. J. Filed Jan. 23, 1928.

BC

For Bracelets, Brooches, Scarf Pins, Pendants, and Bar Pins.
Claims use since 1908.

Ser. No. 260,780. MAURICE TISHMAN, New York, N. Y. Filed Jan. 27, 1928.

For Mountings for Jewelry for Personal Wear—Namely, Finger Rings, Bracelets, Brooches, Earrings, and Necklaces.
Claims use since January, 1923.

Ser. No. 267,624. ABBEY-WAAS COMPANY, New York, N. Y. Filed June 7, 1928.

ANCO

For Finger Rings, Brooches, Scarf Pins, Sautoirs, Bracelets, and Jewelry Mountings for Finger Rings and Brooches.
Claims use since May 28, 1928.

Ser. No. 267,850. MILTON JEWELRY COMPANY, INC., New York, N. Y. Filed June 11, 1928.

REPLICA

For Bracelets, Brooches, Pendants, Earrings, Ornamental Pins, Pin Sets, Finger Rings; Neck, Watch, and Key Chains.
Claims use since May 12, 1927.

Ser. No. 267,915. THE H. A. WILSON COMPANY, Newark, N. J. Filed June 12, 1928.

W

For Finger Rings.
Claims use since May 1, 1928.

Ser. No. 267,936. COHN & ROSENBERGER, INC., New York, N. Y. Filed June 13, 1928.

COROCHROME

Applicant disclaims any exclusive right to the word "Chrome" apart from the mark shown in the drawing.
For Pearls, Necklaces, Bracelets, Earrings, Finger Rings, Brooches, Bar Pins, and Ornamental Hatpins, and Pins for Dress Ornaments, Ornamental Pins, and Buckles for Decorating Hats, Ornamental Shoe Buckles, and Hair Ornaments, Made Wholly or in Part of or Plated With Precious Metal.
Claims use since May 31, 1928.

Ser. No. 268,175. SEIDMAN & COHAN, INC., New York, N. Y. Filed June 16, 1928.

SECO

For Finger Rings, Bracelets, Lavaliers, and Ornamental Pins.
Claims use since May 28, 1928.

CLASS 32.

Furniture and Upholstery.

Ser. No. 261,278. NEW YORK BED SPRING MFG. CO., Detroit, Mich. Filed Feb. 6, 1928.

NYBSCO

For Beds, Bed Springs, Couches, Cots, Day Beds, and Mattresses.
Claims use since Feb. 1, 1923.

Ser. No. 267,217. STEELCRAFT COVERATOR CO., INC., Brooklyn and New York, N. Y. Filed May 29, 1928.

COVERATOR

For Radiator Enclosures.
Claims use since Apr. 2, 1928.

CLASS 33.

Glassware.

Ser. No. 259,033. UNITED STATES GLASS COMPANY, Pittsburgh, Pa. Filed Dec. 16, 1927.

TIFFIN

The lining is intended to indicate gold color.
For Glass Tableware.
Claims use since August, 1927.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 250,732. ANDES RANGE & FURNACE CORP., Geneva, N. Y. Filed June 18, 1927.

ANDES Suburban GASERVICE

The words "Suburban Gaservice" are disclaimed apart from the mark as shown. The drawing is lined for red.
For Gas Ranges, Gas Hot Plates, and Individual Domestic Gas-Supply Systems Sold as Units.
Claims use since June 9, 1927.

Ser. No. 258,450. W. B. BASTIAN MANUFACTURING COMPANY, Los Angeles, Calif. Filed Dec. 5, 1927.

PEER

For Gas Water Heaters.
Claims use since July 1, 1927.

Ser. No. 266,838. THE SURFACE COMBUSTION COMPANY, INC., Toledo, Ohio. Filed May 22, 1928.

SC CO.

For Industrial Gas and Oil Burning Heating Furnaces and Parts Therefor Such as Fabricated-Steel Gas and Oil Burning Equipment and Parts Thereof, Furnace Conveyors, and Parts Thereof.
Claims use since Jan. 1, 1927.

Ser. No. 267,129. KISCO BOILER & ENGINEERING COMPANY, St. Louis, Mo. Filed May 28, 1928.

KISCO

The lining on the drawing indicates the color red.
For Gas, Oil, and Coal Burning Boilers, Both Industrial and Domestic, and Ventilating Fans.
Claims use since Feb. 15, 1928.

Ser. No. 267,168. WALES NOVELTIES CORPORATION, New York, N. Y. Filed May 28, 1928.

XL

Applicant disclaims the circular outline of the filler cap shown on the drawing.
For Friction Cigar and Cigarette Lighters.
Claims use since Apr. 18, 1928.

Ser. No. 267,916. AMERICAN GAS MACHINE COMPANY INC., Albert Lea, Minn. Filed June 13, 1928.

READYGLO

For Gasoline and Gas Heaters.
Claims use since on or about May 5, 1928.

Ser. No. 268,047. JOHN A. MACDOWELL, doing business as The Boiler Baffle Wall Co., Columbus, Ohio. Filed June 14, 1928.

SUPER-REFRACTO

For Baffle Wall Structures for Steam or Water-Tube Boilers.
Claims use since Sept. 5, 1921.

Ser. No. 268,131. ARCHITECTURAL DECORATING COMPANY, Seattle, Wash. Filed June 16, 1928.

Sculptile

For Portable Mantels for Electric Heaters, Electric Glowers, and Gas Heaters, Said Mantels being Ornamental in Appearance and the Ornamentation Produced Solely by Molding Plastic Material Thereon.
Claims use since Jan. 15, 1928.

CLASS 35.

Belting, Hose, Machinery Packing, and Nonmetallic Tires.

Ser. No. 264,517. HAMILTON RUBBER MANUFACTURING COMPANY, Trenton, N. J. Filed Apr. 7, 1928.

For Rubber Hose for Steam, Water, Vacuum, and Pneumatic Tool Purposes; Rubber Packings; and Rubber Belting for Conveyor, Elevator, and Transmission Use.
Claims use since Jan. 11, 1928.

CLASS 36.

Musical Instruments and Supplies.

Ser. No. 262,014. ASTRAL RADIO CORPORATION, Philadelphia, Pa. Filed Feb. 21, 1928.

SERPENTINE

No claim is made to the words "Philadelphia Pa." apart from the mark as shown.
For Tone Arms for Talking Machines.
Claims use since Nov. 21, 1927.

Ser. No. 267,651. THE FRED. GRETSCH MFG. CO., New York, N. Y. Filed June 7, 1928. Under 10-year proviso.

H. FIEHN

For Ocarinas.
Claims use since about June 6, 1876.

Ser. No. 268,115. M. SCHULZ CO., Chicago, Ill. Filed June 15, 1928.

MARIONETTE

For Reproducing Grand Pianos.
Claims use since Apr. 1, 1928.

CLASS 37.

Paper and Stationery.

Ser. No. 257,241. JOHN E. LIND, Washington, D. C. Filed Nov. 8, 1927.

HELOPAD

For Telephone Memorandum Support.
Claims use since about Nov. 16, 1925.

Ser. No. 262,308. INTERNATIONAL PAPER COMPANY, New York, N. Y. Filed Feb. 27, 1928.



No claim is made to the words "Kraft Paper" apart from the mark shown.
For Kraft Paper.
Claims use since October, 1923.

Ser. No. 263,233. STRATHMORE PAPER COMPANY, Mittineague, Mass. Filed Mar. 15, 1928. Under 10-year proviso.

Lugano

For All Kinds of Writing and Printing Paper.
Claims use since Jan. 1, 1895.

Ser. No. 266,342. MAUD EDLA, MOODY, Austin, Tex. Filed May 12, 1928.

Chronos Family Record

The words "Family Record" are disclaimed apart from the mark shown.
For Blank Book for Family Records.
Claims use since Mar. 31, 1927.

Ser. No. 266,536. HOBERG PAPER AND FIBRE COMPANY, Green Bay, Wis. Filed May 17, 1928.



For Toilet Paper, Paper Towels, and Paper Napkins.
Claims use since Feb. 23, 1925.

Ser. No. 266,537. HOBERG PAPER AND FIBRE COMPANY, Green Bay, Wis. Filed May 17, 1928.



For Toilet Paper, Paper Towels, and Paper Napkins.
Claims use since Mar. 2, 1928.

Ser. No. 267,323. STAMFORD WALL PAPER COMPANY, INCORPORATED, Stamford, Conn. Filed June 1, 1928.

WALCREST

For Wall Paper.
Claims use since Mar. 24, 1928.

Ser. No. 268,136. BINNEY & SMITH COMPANY, New York, N. Y. Filed June 16, 1928.

GOTHAM

For Crayons, Slate Pencils, and Chalk.
Claims use since 1919.

Ser. No. 268,137. BINNEY & SMITH COMPANY, New York, N. Y. Filed June 16, 1928.

"CRAYOLA"

For Crayons, Slate Pencils, and Chalk.
Claims use since June 10, 1903.

Ser. No. 268,138. BINNEY & SMITH COMPANY, New York, N. Y. Filed June 16, 1928.

BESCO

For Crayons, Slate Pencils, and Chalk.
Claims use since 1912.

Ser. No. 268,139. BINNEY & SMITH COMPANY, New York, N. Y. Filed June 16, 1928.

ATLANTIC

For Crayons, Slate Pencils, and Chalk.
Claims use since 1913.

Ser. No. 268,412. ALBANY PERFORATED WRAPPING PAPER COMPANY, Albany, N. Y. Filed June 21, 1928.

COMMANDER

For Toilet Paper, Tissue Paper, Crepe Paper, and Paper Towels.
Claims use since Mar. 21, 1928.

Ser. No. 268,413. ALBANY PERFORATED WRAPPING PAPER COMPANY, Albany, N. Y. Filed June 21, 1928.

DICTATOR

For Toilet Paper, Tissue Paper, Crepe Paper, and Paper Towels.
Claims use since Mar. 22, 1928.

Ser. No. 268,603. HAMPSHIRE PAPER COMPANY, South Hadley Falls, Mass. Filed June 25, 1928.

WHITEHALL

For Cover, Writing, Printing, and Announcement Paper and for Mailing Envelopes Adapted for Social and Business Purposes.
Claims use since Jan. 17, 1928.

Ser. No. 268,627. MARY E. ORCHARD, doing business as Nodusto Manufacturing Co., Rochester, N. Y. Filed June 25, 1928.

NODUSTO

For Paper Covers for Protecting Stacks of Dinner Plates.
Claims use since Mar. 3, 1928.

Ser. No. 268,915. CLARKE PAPER COMPANY, Wheeling, W. Va. Filed June 30, 1928.



No claim is made to the words "Soft Absorbent Sanitary 1,000 Sheets."
For Toilet Paper.
Claims use since May 12, 1928.

Ser. No. 269,119. ROBERT F. HOBBS, INC., Beverly, N. J. Filed July 5, 1928.

HOBBS-SUNDURA

For Wall Paper.
Claims use since May 23, 1928.

CLASS 38.

Prints and Publications.

Ser. No. 262,804. W. F. HUTTMAN PRINTING COMPANY, Wisconsin Rapids, Wis. Filed Mar. 8, 1928.

GOOD HOMES

The lining appearing on the drawing is merely for the purpose of shading.
For Monthly Magazine.
Claims use since February, 1928.

Ser. No. 263,526. WOMEN'S WEAR COMPANY, New York, N. Y. Filed Mar. 20, 1928.

RETAILING
MODERN METHODS OF DISTRIBUTION

For Title for Publication Section.
Claims use since Mar. 3, 1928.

Ser. No. 265,733. MAGILL-WEINSHEIMER COMPANY, Chicago, Ill. Filed May 1, 1928.

Econo

For Enlarged Window Advertising Posters.
Claims use since Feb. 5, 1928.

Ser No. 267,013. RUMFORD CHEMICAL WORKS, Providence, R. I. Filed May 25, 1928.

PHOSPHATE

For Periodicals—Namely, a Periodical Published from Time to Time.
Claims use since about Apr. 1, 1928.

Ser. No. 267,273. PEOPLES OPINION PRINTING CO., Valley City, N. Dak. Filed May 31, 1928.

Good-Will
messenger

For Weekly Publication.
Claims use since Apr. 24, 1928.

Ser. No. 268,324. TAU KAPPA EPSILON FRATERNITY, Lombard, Ill. Filed June 19, 1928.

THE TEKE

For Monthly Publication.
Claims use since Jan. 10, 1908.

CLASS 39.

Clothing.

Ser. No. 254,216. HILLSIDE COTTON MILLS, Lagrange, Ga., and Roanoke, Ala. Filed Aug. 31, 1927.

Lido Linens

Applicant disclaims the word "Linens."
For Trousers and Knickers for Street and General Wear.
Claims use since July 1, 1927.

Ser. No. 263,942. THE GREAT EASTERN MANUFACTURING COMPANY, Philadelphia, Pa. Filed Mar. 29, 1928.



Applicant disclaims the words "Overalls, For Better Made, Guaranteed, Look for Design on Buttons, Phila., Pa., U. S. A." except as used in connection with the mark.
For Overalls.
Claims use since Nov. 7, 1927.

Ser. No. 265,774. BEAL-BURROW DRY GOODS CO., Little Rock, Ark. Filed May 2, 1928.

BURRO



For Overalls, Coats, Pants, Coveralls, and Work Shirts for Men and Boys.
Claims use since Dec. 31, 1925.

Ser. No. 267,012. ROSIE ROSEN, doing business as B. Rosen, New York, N. Y. Filed May 25, 1928.

BUTIE

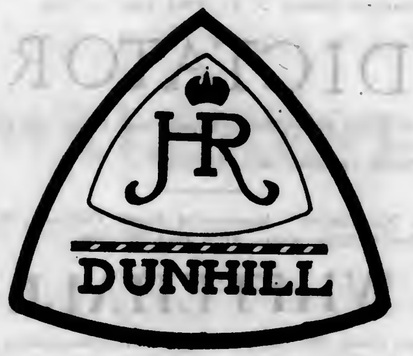
For Infants' Bath Robes and Buntings.
Claims use since May 1, 1928.

Ser. No. 267,212. SMITH MORRIS INC., New York, N. Y. Filed May 29, 1928.

PIVOT-BOW

No claim is made to the exclusive right to the word "Bow" apart from the mark shown.
For Neckties.
Claims use since July 27, 1927.

Ser. No. 267,306. J. HILBORN & W. E. REED, INC., New York, N. Y. Filed June 1, 1928.



For Hosiery.
Claims use since Jan. 21, 1927.

Ser. No. 268,085. DAYTON HOSIERY MILLS, Dayton, Tenn. Filed June 15, 1928.

MI CHOICE

For Knitted Hosiery for Men, Women, and Children.
Claims use since Mar. 28, 1928.

Ser. No. 268,190. VERTEX HOSIERY MILLS, INC., Weissport, Pa. Filed June 16, 1928.

TURRETTE

For Hosiery.
Claims use since Apr. 27, 1928.

Ser. No. 268,211. CARTER DRY GOODS CO., Louisville, Ky. Filed June 18, 1928.

FORTUNATE GIRL

For Hosiery.
Claims use since June 7, 1928.

Ser. No. 268,262. B. ALTMAN & CO., New York, N. Y. Filed June 19, 1928.

BASQUE

For Hosiery.
Claims use since June 4, 1928.

Ser. No. 268,289. MCDERMOTT & SHORT, New York, N. Y. Filed June 19, 1928.

Slendize

For Men's, Women's, Children's, and Infants' Hosiery.
Claims use since May 15, 1928.

Ser. No. 268,290. MCDERMOTT & SHORT, New York, N. Y. Filed June 19, 1928.

Slendette

For Men's, Women's, Children's, and Infants' Hosiery.
Claims use since May 15, 1928.

Ser. No. 268,345. BERNHARD ULMANN CO. INC., New York, N. Y. Filed June 20, 1928.

GOOD HOUSEKEEPING

For Aprons of Textile Fabrics.
Claims use since May 28, 1928.

Ser. No. 268,388. A. B. PIPER COMPANY, INC., New York, N. Y. Filed June 20, 1928.

Bobsleigh

For Topcoats and Overcoats for Men, Women, and Children.
Claims use since May 1, 1928.

Ser. No. 268,430. ELDER MFG. CO., St. Louis, Mo. Filed June 21, 1928.

Dudleigh

For Men's and Boys' Dress and Negligee Shirts and Boys' Blouses.
Claims use since Feb. 1, 1928.

Ser. No. 268,445. JOSHUA HOYLE & SONS, LTD. INC., New York, N. Y. Filed June 21, 1928.

KANDY KID

For Children's Dresses.
Claims use since June 5, 1928.

Ser. No. 268,447. JULIUS KAYSER & CO., New York, N. Y. Filed June 21, 1928.



For Hosiery.
Claims use since May 1, 1928.

Ser. No. 268,564. STANDARD NECKWEAR COMPANY, Boston, Mass. Filed June 23, 1928.

HANDY ANDY

For Neckties, Scarfs, and Cravats.
Claims use since Mar. 30, 1928.

Ser. No. 268,676. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed June 26, 1928.

ROBANESE

For Men's and Women's Dressing Robes.
Claims use since about June 22, 1928.

Ser. No. 268,712. UNION COMPANY, Columbus, Ohio. Filed June 26, 1928.

"7 POINTER"

For Boys' Suits.
Claims use since Feb. 21, 1928.

Ser. No. 268,764. ABBATE & FRANKS, INC., New York, N. Y. Filed June 28, 1928.

ARIANA MODES

No claim is made to the exclusive use of the word "Modes" apart from the mark shown in the drawing.
For Women's and Children's Dresses in One and Two Piece Garments.
Claims use since June 1, 1928.

Ser. No. 268,779. CONTINENTAL UNDERGARMENT COMPANY, New York and Brooklyn, N. Y. Filed June 26, 1928.

Surenne

For Knitted, Netted, and Textile Fabric Underwear for Men, Women, and Children.
Claims use since June 4, 1928.

Ser. No. 268,870. KLINKERUES BROS CO., St. Paul, Minn. Filed June 29, 1928.

REE-PAY

For Men's Overalls and Jackets Made of Cotton Fabrics.
Claims use since Feb. 2, 1928.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 257,949. VILLAMIL & GONZALEZ, Buenos Aires, Argentina. Filed Nov. 22, 1927.



For Cotton Piece Goods.
Claims use since May, 1925.

Ser. No. 263,587. COUDURIER, FRUCTUS & DESCHER, Lyon, France. Filed Mar. 22, 1928.

SATAN

For Silk Piece Goods, Plain or Fancy or Brocaded.
Claims use since Jan. 10, 1927.

Ser. No. 264,300. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Apr. 4, 1928.

REPLISÉ

For Piece Goods Made of Silk, Cotton, and Wool.
Claims use since Jan. 28, 1928.

Ser. No. 265,288. OSTROW-RELMAN SILK CORPORATION, New York, N. Y. Filed Apr. 23, 1928.



For Silk Piece Goods.
Claims use since September, 1927.

Ser. No. 267,330. THE ACHESON HARDEN CO., New York, N. Y. Filed June 2, 1928.

Ambassador

For Handkerchiefs.
Claims use since May 5, 1927.

Ser. No. 267,397. S. STROOCK & CO., INC., New York, N. Y. Filed June 2, 1928.

LLAMARA

For Llama Wool, Wool, and Alpaca Piece Goods or Combinations Thereof.
Claims use since May 21, 1928.

Ser. No. 268,125. VANITY FAIR SILK MILLS, Reading, Pa. Filed June 15, 1928.

EXOTIQUE

For Cloth in the Piece of Silk and Combinations of Silk and Synthetic Yarns.
Claims use since May 23, 1928.

Ser. No. 268,386. PENDLETON WOOLEN MILLS, Portland, Oreg. Filed June 20, 1928.

Wahkeena

For Woolen Blankets.
Claims use since Feb. 1, 1928.

Ser. No. 268,457. ALLEN R. MITCHELL & SON, Philadelphia, Pa. Filed June 21, 1928.

SHACKAMAXON SERVICE WEAVE

No claim is made to the words "Service Weave" apart from the mark as shown.
For Woolen and Worsted Goods and Combinations Thereof in the Piece.
Claims use since Nov. 1, 1927.

Ser. No. 268,723. ALLEN L. WEST, New York, N. Y. Filed June 26, 1928.

Jody Crepe

The word "Crepe" is disclaimed apart from the mark as shown.
For Woven, Knitted, and Felted Fabrics Composed of Silk or of Silk and Rayon Yarns in the Greige and Dyed in the Piece.
Claims use since April, 1928.

Ser. No. 269,047. CHATHAM MANUFACTURING COMPANY, Winston-Salem, N. C. Filed July 3, 1928.

Airloom

For Woolen Blankets.
Claims use since June 22, 1928.

Ser. No. 269,103. DUPLAN SILK CORPORATION, New York, N. Y. Filed July 5, 1928.

SIMPLICITY

For Silk and Rayon Piece Goods and Mixtures Thereof.
Claims use since June 1, 1928.

Ser. No. 269,126. LESHER, WHITMAN & CO., INC., New York, N. Y. Filed July 5, 1928.

TRAMPA

For Piece Goods, Being a Fabric with a Warp of Cotton, or of Cotton and Mohair Mixed, or, of Cotton and Silk Mixed, or of Cotton and Artificial Silk Mixed, and a Filling of Wool, or Cotton, or Mohair, or Alpaca, or Silk, or Artificial Silk, Singly or Combined.
Claims use since June 14, 1928.

Ser. No. 269,132. ALLEN R. MITCHELL & SON, Philadelphia, Pa. Filed July 5, 1928.

Resistotwist

For Woolen and Worsted Goods and Combinations Thereof in the Piece.
Claims use since Apr. 20, 1928.

CLASS 43.

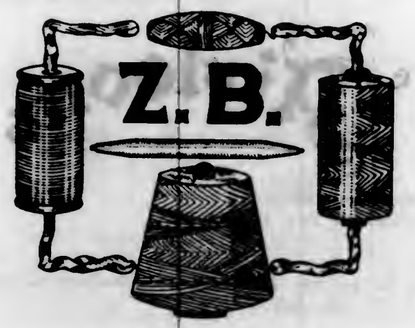
Thread and Yarn.

Ser. No. 269,044. Z. B. YARN MILLS, Union City, N. J. Filed July 3, 1928.

Z. B.

For Cotton, Rayon, Wool, Worsted, and Tinsel Yarns and Threads.
Claims use since on or about June 5, 1928.

Ser. No. 269,045. Z. B. YARN MILLS, Union City, N. J. Filed July 3, 1928.



For Cotton, Rayon, Wool, Worsted, and Tinsel Yarns and Threads.
Claims use since on or about June 5, 1928.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 260,395. LYNNE ARLEY, INC., New York, N. Y. Filed Jan. 20, 1928

Pamper

For Appliances for Stimulating the Skin and Muscular Tissues.
Claims use since Aug. 18, 1927.

Ser. No. 260,761. J. SKLAR MANUFACTURING CO., New York, N. Y. Filed Jan. 27, 1928.

RALKS'

For Surgical and Dental Instruments—Namely, Forceps, Pessaries, Finger-Nail Drills, and Metallic Nipple Shields.
Claims use since about January, 1923.

Ser. No. 265,502. SANITARIUM EQUIPMENT COMPANY, Battle Creek, Mich. Filed Apr. 27, 1928.

HEALTH BUILDER

For Exercising Machines Which Are Primarily Designed for Use in Sanitariums, Treatment Parlors, or Institutions and the Like and for Electric Bath Cabinets.
Claims use since Jan. 1, 1914, on electric bath cabinets, and since Jan. 1, 1926, on exercising machines.

Ser. No. 267,658. JACOB KAUFFMAN, New York, N. Y. Filed June 7, 1928.



No claim is made to the exclusive use of the words "Sanitary, Pocket" and "Spitkup" apart from the mark shown in the drawing.
For Paper Sputum Cups.
Claims use since May 28, 1928.

Ser. No. 267,725. SANITARIUM EQUIPMENT COMPANY, Battle Creek, Mich. Filed June 8, 1928.

OSCILLO-MANIPULATOR

No claim is made to the word "Manipulator" apart from the mark shown.
For Massaging or Mechanical Exercising Machines Which Are Primarily Designed for Use in Sanitariums, Treatment Parlors, or Institutions and the Like.
Claims use since June 15, 1922.

Ser. No. 268,668. ALL-KLENZ SALES CO. INC., Allentown, Pa. Filed June 26, 1928.

ALL-KLENZ

For Douche Appliances, Syringes, and Douche Attachments Therefor.
Claims use since Nov. 15, 1927.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 259,961. THE KINGSWAY CORPORATION, Tampa, Fla. Filed Jan. 11, 1928.



The drawing is lined to indicate shading.. No claim is made to the words "Royally Good" apart from the mark as shown.
For Fruit Juices of Various Flavors for Beverage Purposes.
Claims use since Feb. 15, 1926.

Ser. No. 266,674. J. H. LOVE, doing business as Love Bottling Co., Pawhuska, Okla. Filed May 19, 1928.

Love

For Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since Apr. 15, 1928.

Ser. No. 267,830. THE BRIDGEPORT BOTTLING CO. INC., Bridgeport, Conn. Filed June 11, 1928.

BROOKLAWN CLUB

For Nonalcoholic, Noncereal, Maltless Beverages, Including Orange, Lemon and Lime, Cream Soda, Birch Beer, Cherry, Grape, Root Beer, Lemon Soda, Strawberry, Sarsaparilla, and Ginger Ale, Sold as Soft Drinks and Sirups for Making the Same.
Claims use since June 1, 1926.

Ser. No. 267,865. SMITH-JUNIOR COMPANY, INC., Rochester, N. Y. Filed June 11, 1928.

SHILLAYLEE

For Nonalcoholic, Maltless Syrups and Flavorings for Making Soft Drinks.
Claims use since Apr. 27, 1928.

Ser. No. 267,866. SMITH-JUNIOR COMPANY, INC., Rochester, N. Y. Filed June 11, 1928.

HARVEST MOON

For Nonalcoholic, Maltless Syrups and Flavorings for Making Soft Drinks.
Claims use since Apr. 27, 1928.

Ser. No. 267,867. SMITH-JUNIOR COMPANY, INC., Rochester, N. Y. Filed June 11, 1928.

GREENLY ISLE

For Nonalcoholic, Maltless Syrups and Flavorings for Making Soft Drinks.
Claims use since Apr. 27, 1928.

Ser. No. 267,868. SMITH-JUNIOR COMPANY, INC., Rochester, N. Y. Filed June 11, 1928.

ELFIN-ISLE

For Nonalcoholic, Maltless Syrups and Flavorings for Making Soft Drinks.
Claims use since Apr. 27, 1928.

Ser. No. 267,950. GOODY NECTAR COMPANY, Oklahoma City, Okla. Filed June 13, 1928.



Applicant disclaims the words "A Better Drink" apart from the mark.
For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since May 8, 1928.

Ser. No. 268,163. ALBERT KREKLER, doing business as H & H Mineral Water Co., Clinton, Ind. Filed June 16, 1928.

HEALTH H&H HAPPINESS

No claim is made to the word "Health" apart from the mark shown.
For Mineral Water.
Claims use since May 11, 1928.

Ser. No. 268,360. EMERSON DRUG CO., Baltimore, Md. Filed June 20, 1928.



No exclusive claim is made to the words "Ginger Mint Julep" except as associated with the other features of the mark. The drawing is lined to indicate green, yellow, and purple.
For Nonalcoholic, Carbonated, Noncereal, Maltless Beverage Sold at Fountains and in Bottles as a Soft Drink and Syrup and Concentrates for Use in Making Said Soft Drink.
Claims use since May 10, 1922.

Ser. No. 268,732. ST. PAUL BOTTLING COMPANY, St. Paul, Minn. Filed June 27, 1928.

Mountain Club

For Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks—viz, Ginger Ale.
Claims use since Nov. 20, 1927.

Ser. No. 268,965. CEDAR RAPIDS BOTTLING WORKS, Cedar Rapids, Iowa. Filed July 2, 1928.

Hur-Mon

For Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks—viz, Ginger Ale, Root Beer, Cream Soda, and Various Flavors of Fruits and Berries.
Claims use since 1908.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 245,875. GEORGE L. WALKER, doing business as The G. L. Walker Company, Easton, Md. Filed Mar. 16, 1927.

OCEAN ROLL

For Candy.
Claims use since Nov. 1, 1926.

Ser. No. 247,260. OTTO P. CATSIGIANIS, doing business as Blue Hill Candy Co., St. Louis, Mo., assignor to Blue Hill Candy Co., St. Louis, Mo., a firm composed of Otto P. Catsigianis and John P. Catsigianis. Filed Apr. 11, 1927.



The drawing is lined to represent the colors yellow, blue, green, and red.
For Candies.
Claims use since May 1, 1926.

Ser. No. 249,965. CARL T. FUND, doing business as Fund's, and C. T. Fund, Chicago, Ill. Filed June 3, 1927.



For Candy.
Claims use since May 19, 1927.

Ser. No. 259,282. GARNEAU & DE BRUYN, INC., New York, N. Y. Filed Dec. 23, 1927.

LA REINE ELISABETH

For Canned Fish—Namely, Canned Sardines.
Claims use since December, 1926.

Ser. No. 259,541. JOHN W. ESHELMAN & SONS, Lancaster, Pa. Filed Dec. 31, 1927. Under 10-year proviso.

ESHELMAN'S

For Corn Meal and Wheat Flour.
Claims use since 1885.

Ser. No. 261,155. C. D. & R. W. WATSON, Joplin, Mo. Filed Feb. 8, 1928.

IRISH BROWNIES

The drawing is lined for the color green.
For Chocolate-Covered Potato Chips.
Claims use since on or about Oct. 1, 1927.

Ser. No. 264,624. THE WIDLAR COMPANY, Cleveland, Ohio. Filed Apr. 9, 1928.

Ampico

For Pickles; Condiments—Namely, Prepared Mustard and Horse-Radish; Chow-May Sandwich Spread, Salad Dressing, Sweet Relish, Sour Onions, Sweet Onions, Sweet Chowchow, Sour Chowchow, and Thousand Island Dressing.
Claims use since March, 1927.

Ser. No. 266,564. STANDARD RICE COMPANY, INC., Houston, Tex. Filed May 17, 1928.

WHITE HOUSE

For Rice Flakes.
Claims use since Jan. 15, 1928.

Ser. No. 267,149. E. STEEN & BRO., Baltimore, Md. Filed May 28, 1928.

GOLDEN GOOSE



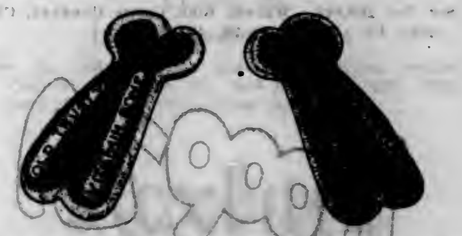
The drawing is lined for gold.
For Cereal Products—Namely Wheat Flour, Graham Flour, Yellow Corn Meal, White Corn Meal, Scratch Feed for Poultry, Chick Starter, Laying Mash, Growing Mash, Chick Grains, Whole Grains, Mixed Grains, Ground Grains, and Cracked Grains.
Claims use since May 31, 1926.

Ser. No. 267,165. THE UNITED CHICLE COMPANY, Toledo, Ohio. Filed May 28, 1928.

TRU-TASTE

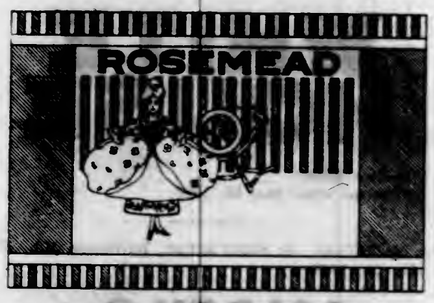
The word "Taste" is disclaimed apart from the representation shown.
For Chewing Gum.
Claims use since Dec. 12, 1927.

Ser. No. 267,448. OLD TRUSTY DOG FOOD COMPANY, Needham Heights, Mass. Filed June 4, 1928.



The words "Vitamin Bone" and the representation of the goods are disclaimed apart from the mark as shown in the drawing.
For Dog Food.
Claims use since January, 1928.

Ser. No. 267,653. HADDAWAY-CARGILL CO., Columbus, Ga. Filed June 7, 1928.



The drawing is lined to indicate green.
For Cane Syrup.
Claims use since 1916.

Ser. No. 267,873. SWIFT CANADIAN COMPANY, LIMITED, Toronto, Ontario, Canada. Filed June 11, 1928.

Adanac

For Bacon.
Claims use since December, 1915.

Ser. No. 268,358. DUNBAR-DUKATE COMPANY, INC., New Orleans, La. Filed June 20, 1928. Under section 5b of the act of 1905, as amended in 1920.

DUNBAR

For Canned Raviolis and Canned Oysters.
Claims use since 1926 as applied to canned oysters and since Apr. 1, 1927, as applied to canned raviolis.

Ser. No. 268,832. YOUNGLOVE GROCERY CO., Tacoma, Wash. Filed June 28, 1928.

DIMPLE

For Canned Peas.
Claims use since Feb. 16, 1912.

Ser. No. 268,842. WALTER BIRK CANDY COMPANY, Chicago, Ill. Filed June 29, 1928.

Hoop-La

For Candy.
Claims use since May 3, 1928.

Ser. No. 268,872. THE ROBT. F. MACKENZIE CO., Cleveland, Ohio. Filed June 29, 1928.



For Candy.
Claims use since May 8, 1928.

Ser. No. 269,035. HENRY W. PEABODY & CO., New York, N. Y. Filed July 3, 1928.

Rep

For Olive Oil.
Claims use since June 25, 1928.

Ser. No. 269,053. KELLEY-CLARKE CO., Seattle, Wash. Filed July 3, 1928.

MANDARIN



For Canned Fish—Namely, Canned Salmon.
Claims use since July 1, 1902.

Ser. No. 269,066. WILLIAM S. SCULL COMPANY, Camden, N. J. Filed July 3, 1928.

Walt Whitman

"Walt Whitman" is the name of the good gray poet of Camden, N. J., deceased.
For Coffee.
Claims use since about Oct. 15, 1925.

Ser. No. 269,082. THE CANTON PURE MILK COMPANY, Canton, Ohio. Filed July 5, 1928.

LEEDO

For Chocolate-Flavored Milk.
Claims use since June 29, 1928.

Ser. No. 269,085. CAPE ANN ISINGLASS COMPANY, Boston, Mass. Filed July 5, 1928.



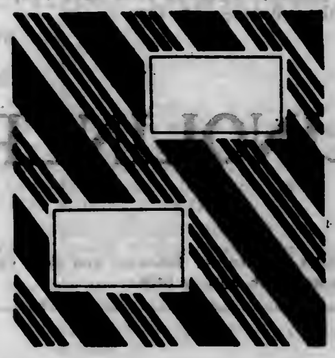
For Isinglass.
Claims use since 1872.

Ser. No. 269,092. COSTA BROTHERS, Stockton, Calif. Filed July 5, 1928.

NON STOP

For Fresh Grapes.
Claims use since June 12, 1928.

Ser. No. 269,095. THE CURTISS CANDY COMPANY, Chicago, Ill. Filed July 5, 1928.



For Chewing Gum and Candy.
Claims use since June 1, 1927.

Ser. No. 269,134. E. A. MORRISON, INC., Los Angeles, Calif. Filed July 5, 1928.

ROSE BOWL

For Canned Fruits, Canned Vegetables, and Dried Fruits.
Claims use since June 1, 1928.

Ser. No. 269,140. ORANGE MUTUAL CITRUS ASSOCIATION, Orange, Calif. Filed July 5, 1928.

PAUL REVERE

For Fresh Citrus Fruits.
Claims use since May 12, 1928.

CLASS 49.

Distilled Alcoholic Liquors.

Ser. No. 268,073. THE AMERICAN MEDICINAL SPIRITS COMPANY, Louisville, Ky., and Baltimore, Md. Filed June 15, 1928. Under 10-year proviso.

Roxbury

For Rye Whiskey.
Claims use since Sept. 1, 1892.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 265,460. AMERICAN HAIR FELT COMPANY, Chicago, Ill. Filed Apr. 27, 1928.

LINOLINER

For Under Cushion for Linoleum and Cork Carpets. Claims use since Apr. 2, 1928.

Ser. No. 265,768. AMERICAN HAIR FELT COMPANY, Chicago, Ill. Filed May 2, 1928.

OZITE
LINOLINER

For Under Cushion for Linoleum and Cork Carpets. Claims use since Apr. 2, 1928.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

AUGUST 14, 1928.

245,347. CELLULOSE WADDING. VELDOWN COMPANY, INC., New York, N. Y.
Filed February 8, 1928. Serial No. 261,406. PUBLISHED APRIL 24, 1928. Class 1.

245,348. BUTTERMILK. RIECK-MCJUNKIN DAIRY COMPANY, Pittsburgh, Pa.
Filed February 8, 1928. Serial No. 261,386. PUBLISHED MAY 29, 1928. Class 46.

245,349. METAL AND FELT WEATHER STRIPS. GENERAL WEATHER STRIP COMPANY, St. Louis, Mo.
Filed February 8, 1928. Serial No. 261,361. PUBLISHED MAY 1, 1928. Class 12.

245,350. SHAMPOO SCALP AND HAIR TREATMENT. BESSIE L. BARBER, doing business as Darling of the Gods Laboratories, Los Angeles, Calif.
Filed February 8, 1928. Serial No. 261,338. PUBLISHED MAY 29, 1928. Class 6.

245,351. FLY SWATTERS. FRED LOMBARD, Santa Rosa, Calif.
Filed February 7, 1928. Serial No. 261,322. PUBLISHED MAY 8, 1928. Class 50.

245,352. LADIES' HATS. HOLM & NATHAN, San Francisco, Calif.
Filed February 7, 1928. Serial No. 261,317. PUBLISHED MAY 1, 1928. Class 39.

245,353. LADIES' HATS. HOLM & NATHAN, San Francisco, Calif.
Filed February 7, 1928. Serial No. 261,316. PUBLISHED MAY 1, 1928. Class 39.

245,354. LADIES' HATS. HOLM & NATHAN, San Francisco, Calif.
Filed February 7, 1928. Serial No. 261,315. PUBLISHED MAY 1, 1928. Class 39.

245,355. SYNTHETIC STONE ESPECIALLY PREPARED FOR CONSTRUCTION WORK. P. GRASSI & Co., San Francisco, Calif.
Filed February 7, 1928. Serial No. 261,313. PUBLISHED MAY 1, 1928. Class 12.

245,356. UNDERWEAR FOR MEN, WOMEN, AND CHILDREN—NAMELY, KNITTED AND WOVEN UNDERDRAWERS, UNDERSHIRTS, UNION SUITS, BLOOMERS, VESTS, CHEMISES, STEP-INS, SLIPS, AND BRASSIÈRES; NIGHTGOWNS; AND OUTERWEAR—NAMELY, KNITTED AND WOVEN BLOOMERS, SKIRTS, PANTS, AND SWEATERS. EDWARD W. ROWE, New York, N. Y.
Filed February 6, 1928. Serial No. 261,284. PUBLISHED MAY 1, 1928. Class 39.

245,357. NONELECTRICAL SIGNS AND SIGN LETTERS. NATHAN SCHOENTHAL, doing business as Window Poster Co., New York, N. Y.
Filed February 4, 1928. Serial No. 261,211. PUBLISHED APRIL 24, 1928. Class 50.

245,358. COAL. HADDOCK MINING COMPANY, Wilkes-Barre, Pa.
Filed February 4, 1928. Serial No. 261,190. PUBLISHED MAY 8, 1928. Class 1.

245,359. CAKES AND COOKIES. THE GOLDEN BEAR COOKIE COMPANY, Berkeley, Calif.
Filed February 4, 1928. Serial No. 261,188. PUBLISHED MAY 29, 1928. Class 46.

245,360. COAL. IVES ICE AND COAL COMPANY, North Tonawanda, N. Y.
Filed February 2, 1928. Serial No. 261,062. PUBLISHED APRIL 24, 1928. Class 1.

245,361. MOULDED AND PRESSED PANELS. FREDERICK A. BIGLER, doing business as Bigler Manufacturing Co., Chippewa Falls, Wis.
Filed February 2, 1928. Serial No. 261,037. PUBLISHED MAY 8, 1928. Class 12.

245,362. CERTAIN NAMED RUBBER AND SHEET RUBBER. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed February 13, 1928. Serial No. 261,625. PUBLISHED MAY 22, 1928. Class 50.

245,363. DECORATIVE TILE. SUPERIOR WALL TILE COMPANY, Chicago, Ill.
Filed February 11, 1928. Serial No. 261,593. PUBLISHED MAY 1, 1928. Class 12.

245,364. COMPOUNDS FOR MAKING MOULD BOARDS AND STONE PATTERNS. PAUL F. HERMANN, Pittsburgh, Pa.
Filed February 11, 1928. Serial No. 261,570. PUBLISHED MAY 15, 1928. Class 1.

245,365. BUILDING CEMENT AND CONCRETE. MATERIALS, INC., Los Angeles, Calif.
Filed February 10, 1928. Serial No. 261,517. PUBLISHED MAY 15, 1928. Class 12.

245,366. ASBESTOS BOARD. ASBESTOS SHINGLE, SLATE & SHEATHING COMPANY, Ambler, Pa.
Filed February 10, 1928. Serial No. 261,476. PUBLISHED APRIL 17, 1928. Class 12.

245,367. CERTAIN NAMED CONSTRUCTION MATERIALS. ROSSMAN CORPORATION, Beaver Falls, Pa.
Filed February 9, 1928. Serial No. 261,455. PUBLISHED MAY 1, 1928. Class 12.

245,368. LADIES' KNITTED UNDERWEAR, SHOES OF RUBBER, HOSIERY, SWEATERS AND SCARFS, HATS, COATS, SUITS, AND BLOUSES FOR WOMEN AND CHILDREN, AND WAISTS FOR OUTER WEAR FOR WOMEN AND CHILDREN. MCGREEVEY, WERRING & HOWELL, INC., New York, N. Y.
Filed February 9, 1928. Serial No. 261,446. PUBLISHED MAY 1, 1928. Class 39.

245,369. HAIR-OIL POMADE, HAIR TONIC, AND FACE LOTION. ZALA PERFUMERY CO., Philadelphia, Pa.
Filed March 20, 1928. Serial No. 263,529. PUBLISHED MAY 22, 1928. Class 6.

245,370. CELLULOSE WADDING IN BULK AND PAD FORM. NATIONAL CELLULOSE CORPORATION, New York, N. Y.
Filed March 20, 1928. Serial No. 263,509. PUBLISHED MAY 29, 1928. Class 1.

245,371. CHICKEN FEED. CALIFORNIA HAWAIIAN MILLING COMPANY, San Francisco, Calif.
Filed March 20, 1928. Serial No. 263,456. PUBLISHED MAY 22, 1928. Class 46.

245,372. FLOORING PANELS, DOORS, AND GLUED-UP OR CEMENTED WOODWORK. BROOKE W. CADWALLADER, also doing business as Cadwallader-Gibson Co., Inc., Los Angeles, Calif.
Filed March 20, 1928. Serial No. 263,454. PUBLISHED MAY 22, 1928. Class 12.

245,373. PLANT SOIL. HYPER-HUMUS COMPANY, Newton, N. J.
Filed March 19, 1928. Serial No. 263,404. PUBLISHED MAY 29, 1928. Class 1.

245,374. SPONGES AND CHAMOIS. EGON MAYER, Binghamton, N. Y.
Filed March 17, 1928. Serial No. 263,330. PUBLISHED MAY 22, 1928. Class 1.

245,375. NONINFLAMMABLE TRANSLUCENT CELLULOSE COMPOSITION. MAX HORN & BRO., New York, N. Y.
Filed March 9, 1928. Serial No. 262,850. PUBLISHED MAY 22, 1928. Class 50.

245,376. COAL. THE MASTELLER COAL COMPANY, Keyser, W. Va.
Filed March 8, 1928. Serial No. 262,813. PUBLISHED MAY 22, 1928. Class 1.

245,377. MEN'S AND BOYS' CLOTHING, CONSISTING OF SUITS, TROUSERS, VESTS, COATS, AND OVERCOATS. FINE & LUKE, New York, N. Y.
Filed March 8, 1928. Serial No. 262,802. PUBLISHED MAY 1, 1928. Class 39.

245,378. FLUID FOR FILLING CIGAR AND CIGARETTE LIGHTERS. EVERLITE PRODUCTS CORPORATION, Brooklyn, N. Y.
Filed March 8, 1928. Serial No. 262,801. PUBLISHED MAY 29, 1928. Class 6.

245,379. HOSIERY. BROOKS HOSIERY MILLS, Philadelphia, Pa.
Filed March 8, 1928. Serial No. 262,794. PUBLISHED MAY 1, 1928. Class 39.

245,380. ANTACID DIGESTANT. BISODOL CO., INC., New York, N. Y.
Filed March 8, 1928. Serial No. 262,791. PUBLISHED MAY 22, 1928. Class 6.

245,381. TOILET GOODS AND PREPARATIONS—NAMELY, SKIN TONICS, SKIN LOTIONS, AND SKIN CREAMS, HAIR TONICS, HAIR LOTIONS, AND HAIR OILS, BATH CRYSTALS, EYE TONICS, AND EYE LOTIONS, TALCUM AND FACE POWDER, AND ROUGE. EVE BECKTEL, New York, N. Y.
Filed March 8, 1928. Serial No. 262,789. PUBLISHED MAY 29, 1928. Class 6.

245,382. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, ETC. A. P. BABCOCK COMPANY, New York, N. Y.
Filed March 8, 1928. Serial No. 262,788. PUBLISHED MAY 15, 1928. Class 6.

245,383. MAGNESIUM HYDROXIDE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,744. PUBLISHED MAY 29, 1928. Class 6.

245,384. PERMANENTLY-PLASTIC MODELING CLAY. AMERICAN ART CLAY COMPANY, Indianapolis, Ind.
Filed March 7, 1928. Serial No. 262,688. PUBLISHED MAY 8, 1928. Class 1.

245,385. BITUMINOUS COAL. WESTERN COAL & COKE CO., Milwaukee, Wis.
Filed March 6, 1928. Serial No. 262,684. PUBLISHED MAY 8, 1928. Class 1.

245,386. LEATHERS. THE OHIO LEATHER COMPANY, Girard, Ohio.
Filed March 5, 1928. Serial No. 262,624. PUBLISHED MAY 8, 1928. Class 1.

245,387. MEDICINAL COMPOUNDS FOR INTESTINAL ACTIVATOR AND ANTACID LAXATIVE. NATURE HERB CO. INC., Seattle, Wash.
Filed March 5, 1928. Serial No. 262,620. PUBLISHED MAY 22, 1928. Class 6.

245,388. CAPS AND CLOSURE SEALS FOR BOTTLES AND OTHER CONTAINERS. ALUMINUM COMPANY OF AMERICA, Pittsburgh, Pa.
Filed March 5, 1928. Serial No. 262,587. PUBLISHED MAY 29, 1928. Class 50.

245,389. HOSIERY. TRIUMPH HOSIERY MILLS, New York, N. Y.
Filed March 3, 1928. Serial No. 262,579. PUBLISHED MAY 1, 1928. Class 39.

245,390. MEDICINAL PREPARATION FOR THE TREATMENT OF DIABETES. CAMILLE CONS, Chambery, France.
Filed March 3, 1928. Serial No. 262,550. PUBLISHED MAY 22, 1928. Class 6.

245,391. LIME. CLARENCE R. REX, Toledo, Ohio.
Filed March 2, 1928. Serial No. 262,529. PUBLISHED MAY 8, 1928. Class 12.

245,392. DOUCHE POWDER USED IN THE TREATMENT OF TUMORS AND CANCER. MYRTLE B. MERZ MAHARON, Mount Vernon, N. Y.
Filed March 2, 1928. Serial No. 262,522. PUBLISHED MAY 29, 1928. Class 6.

245,393. PREPARATION DESIGNED TO ERADICATE FRECKLES, SPOTS, PIMPLES, AND OTHER UNSIGHTLY BLEMISHES OF THE SKIN. DUUS PRODUCTS COMPANY, Chicago, Ill.
Filed March 2, 1928. Serial No. 262,512. PUBLISHED MAY 15, 1928. Class 6.

245,394. HARDWOOD FLOORING, INTERIOR TRIM, AND FINISHING LUMBER. WISCONSIN LAND & LUMBER CO., Hermansville, Mich.
Filed March 1, 1928. Serial No. 262,497. PUBLISHED MAY 22, 1928. Class 12.

245,395. COMPOSITION FOR HAIR TREATMENT IN LIQUID FORM. WILLIAM A. MILLER, Cleveland, Ohio.
Filed March 23, 1928. Serial No. 263,661. PUBLISHED MAY 15, 1928. Class 6.

245,396. NUTRITIVE TONIC RECOMMENDED AS A BODY BUILDER. BEDESEE PHARMACAL CO., INC., New York, N. Y.
Filed March 23, 1928. Serial No. 263,634. PUBLISHED MAY 22, 1928. Class 6.

245,397. PREPARATION FOR STIMULATING METABOLISM. "CRISTALLO" A. G., Thusis, Switzerland.
Filed March 22, 1928. Serial No. 263,590. PUBLISHED MAY 29, 1928. Class 6.

245,398. REDUCING CREAM. LOUIS A. TUVIN, doing business as Colloidal Chemists, New York, N. Y.
Filed March 21, 1928. Serial No. 263,567. PUBLISHED MAY 15, 1928. Class 6.

245,399. NONELECTRICAL REFLECTING SIGNS. RAY-SIGNS CORPORATION, New Haven, Conn.
Filed March 10, 1928. Serial No. 262,930. PUBLISHED MAY 29, 1928. Class 50.

245,400. PYROXYLIN-GLAZED CHINTZES, LEATHER SUBSTITUTES, AND PYROXYLIN-COATED TEXTILE FABRICS. THE ASPINOOK CO., Jewett City, Conn.
Filed March 10, 1928. Serial No. 262,889. PUBLISHED MAY 29, 1928. Class 50.

245,401. TRAP SETTERS. ANIMAL TRAP COMPANY OF AMERICA, Lititz, Pa.
Filed March 10, 1928. Serial No. 262,888. PUBLISHED MAY 15, 1928. Class 50.

245,402. MEN'S AND WOMEN'S KNITTED CRAVATS AND SWEATERS. JOSEPH SAFFLAS, doing business as Prime Knitting Mills, Philadelphia, Pa.
Filed March 9, 1928. Serial No. 262,873. PUBLISHED MAY 1, 1928. Class 39.

245,403. HARD BREAD (CRACKER, WAFER). OSCAR G. PETTERSON COMPANY, Cambridge, Mass.
Filed March 9, 1928. Serial No. 262,870. PUBLISHED MAY 22, 1928. Class 46.

245,404. PERFUMES, ESSENCES OF PERFUMES, ESSENCES FOR PERFUMERY MATERIALS, AROMATIC MATERIALS, SYNTHETIC PERFUME MATERIALS, ODORIFEROUS MATERIALS, AND ETHEREAL OILS. ARNOLD LOUIS VAN AMERINGEN, New York, N. Y.
Filed March 26, 1928. Serial No. 263,795. PUBLISHED MAY 22, 1928. Class 6.

245,405. FLEXIBLE FLOOR MAT. THE ROCKWOOD MANUFACTURING COMPANY, Indianapolis, Ind.
Filed March 1, 1928. Serial No. 262,488. PUBLISHED MAY 8, 1928. Class 50.

245,406. BEETLE TRAPS. BENJAMIN LEON, Camden, N. J.
Filed March 1, 1928. Serial No. 262,469. PUBLISHED MAY 15, 1928. Class 50.

245,407. GRAPEVINES. ANDERSON T. KEISTER, Blacksburg, Va.
Filed March 1, 1928. Serial No. 262,465. PUBLISHED MAY 22, 1928. Class 1.

245,408. COMPOUNDS FOR THE TREATMENT OF CORNS. THE STEVENS-WILBY MFG., CO., INC., Philadelphia, Pa.
Filed February 29, 1928. Serial No. 262,428. PUBLISHED MAY 22, 1928. Class 6.

245,409. THROAT PASTILLES. RODGERS FRÈRES, INCORPORATED, Montreal, Quebec, Canada.
Filed February 29, 1928. Serial No. 262,415. PUBLISHED MAY 15, 1928. Class 6.

245,410. HOSIERY FOR MEN, WOMEN, AND CHILDREN. LOUIS RADIN, New York, N. Y.
Filed February 29, 1928. Serial No. 262,413. PUBLISHED MAY 1, 1928. Class 39.

245,411. AROMATIC LOTION FOR APPLICATION TO THE SKIN FOR REPELLING INSECTS. FRANK B. HARRIS CO. INC., Binghamton, N. Y.
Filed February 29, 1928. Serial No. 262,401. PUBLISHED MAY 15, 1928. Class 6.

245,412. WOMEN'S KNITTED WOOL AND LAMB'S-FUR LINED LEATHER STREET AND SPORT GLOVES. O. C. HANSEN MFG. CO., Milwaukee, Wis.
Filed February 29, 1928. Serial No. 262,400. PUBLISHED MAY 1, 1928. Class 39.

245,413. SOLE LEATHER IN ALL ITS FORMS. THE UNITED STATES LEATHER SELLING CORPORATION, New York, N. Y.
Filed February 28, 1928. Serial No. 262,385. PUBLISHED MAY 1, 1928. Class 1.

245,414. SOLE LEATHER IN ALL ITS FORMS. THE UNITED STATES LEATHER SELLING CORPORATION, New York, N. Y.
Filed February 28, 1928. Serial No. 262,384. PUBLISHED MAY 1, 1928. Class 1.

245,415. SOLE LEATHER IN ALL ITS FORMS. THE UNITED STATES LEATHER SELLING CORPORATION, New York, N. Y.
Filed February 28, 1928. Serial No. 262,383. PUBLISHED MAY 1, 1928. Class 1.

245,416. CERTAIN CONSTRUCTION MATERIALS. G. SAM SCOTT, Malden, Mass.
Filed February 27, 1928. Serial No. 262,335. PUBLISHED MAY 1, 1928. Class 12.

245,417. GARDEN SEED. NORTHRUP, KING & CO., Minneapolis, Minn.
Filed February 27, 1928. Serial No. 262,323. PUBLISHED MAY 15, 1928. Class 1.

245,418. LUMBER. FRUIT GROWERS SUPPLY COMPANY, Los Angeles, Calif.
Filed February 27, 1928. Serial No. 262,301. PUBLISHED MAY 29, 1928. Class 12.

245,419. MEN'S ATHLETIC PANTS AND UNDERWEAR OF KNITTED OR TEXTILE FABRIC. NATIONAL SHIRT SHOPS, INC., New York, N. Y.
Filed February 25, 1928. Serial No. 262,243. PUBLISHED MAY 1, 1928. Class 39.

245,420 MEN'S NEGLIGEE AND SPORT SHIRTS AND UNDERWEAR OF KNITTED OR TEXTILE FABRIC. NATIONAL SHIRT SHOPS, INC., New York, N. Y.
Filed February 25, 1928. Serial No. 262,242. PUBLISHED MAY 1, 1928. Class 39.

245,421. LADIES' APPAREL, AS FOLLOWS: COATS, SUITS, NEGLIGEES, HATS, DRESSES, GOWNS, PETTICOATS, BLOOMERS, CORSETS AND BRASSIÈRES, STEP-INS, KNITTED UNDERWEAR, AND HOSIERY. BETTINA INC., New York, N. Y.
Filed February 25, 1928. Serial No. 262,201. PUBLISHED MAY 1, 1928. Class 39.

245,422. PLASTIC MODELING MATERIAL. MILTON BRADLEY COMPANY, Springfield, Mass.
Filed February 23, 1928. Serial No. 262,112. PUBLISHED MAY 1, 1928. Class 1.

245,423. TOILET ARTICLES—NAMELY, PERFUME, TOILET WATER, FACE POWDER. BERGDORF & GOODMAN COMPANY, New York, N. Y.
Filed February 23, 1928. Serial No. 262,051. PUBLISHED APRIL 24, 1928. Class 6.

245,424. TOILET ARTICLES—NAMELY, PERFUME, TOILET WATER, FACE POWDER. BERGDORF & GOODMAN COMPANY, New York, N. Y.
Filed February 23, 1928. Serial No. 262,050. PUBLISHED MAY 8, 1928. Class 6.

245,425. CHAMOIS. EGON MAYER, Binghamton, N. Y.
Filed March 17, 1928. Serial No. 263,329. PUBLISHED MAY 22, 1928. Class 1.

245,426. SHAMPOOS. OSWALD LEUSCHNER, Astoria, N. Y.
Filed March 17, 1928. Serial No. 263,323. PUBLISHED MAY 22, 1928. Class 6.

245,427. CORNSTARCH. CORN PRODUCTS REFINING COMPANY, New York, N. Y.
Filed March 15, 1928. Serial No. 263,200. PUBLISHED MAY 22, 1928. Class 46.

245,428. DETERGENT FOR REMOVING SCALE AND DEPOSITS FROM WATER CONDUITS AND CONTAINERS AND FOR TREATING WATER TO PREVENT IT FROM FORMING SCALE AND DEPOSITS IN CONDUITS AND CONTAINERS. HARRY L. BAER, doing business as Water Treatment Co., Pittsburgh, Pa.
Filed March 15, 1928. Serial No. 263,193. PUBLSHED MAY 29, 1928. Class 6.

245,429. LIQUID TONIC FOR APPLICATION TO THE BODY. DR. ANNA ALBERS, Chicago, Ill.
Filed March 15, 1928. Serial No. 263,190. PUBLISHED MAY 22, 1928. Class 6.

245,430. SOLUBLE POWDER FOR NOURISHING AND PRESERVING THE SKIN, SUCH AS PREVENTING WRINKLES, REMOVING PIMPLES AND BLACKHEADS, MODIFYING FRECKLES, INCREASING ELIMINATION THROUGH THE PORES, AND AS AN ANTISEPTIC DEODORANT. A. A. MAILLETT CO., INC., New York, N. Y.
Filed March 14, 1928. Serial No. 263,168. PUBLISHED MAY 15, 1928. Class 6.

245,431. PREPARATION USED IN THE TREATMENT OF MANGE, SCURF, AND LICE ON HOGS. AVENELL PUGH, doing business as A. B. Pugh & Co., Sabina, Ohio.
Filed March 13, 1928. Serial No. 263,101. PUBLISHED MAY 22, 1928. Class 6.

245,432. OIL FOR EXTERNAL USE IN TREATING ACHES AND PAINS; PREPARATION FOR TREATING KIDNEY TROUBLE, STOMACH, BOILS, PIMPLES, AND NERVE TROUBLE; PREPARATION FOR TREATING THE LIVER, AND ESPECIALLY FOR CATARRH, ULCERS, TUMORS, AND DROPSY; PREPARATION FOR RHEUMATISM, SORES, AND FOR RUN-DOWN OR WORN-OUT SYSTEM; PREPARATION FOR TREATING URIC-ACID SYMPTOMS AND BLADDER TROUBLE. D. S. BROUGHER, doing business as Wan-Nis-Co Medicine Co., Greensburg, Pa.
Filed March 13, 1928. Serial No. 263,069. PUBLISHED MAY 29, 1928. Class 6.

245,433. TILES. TRAVATEX PRODUCTS CORPORATION, New York, N. Y.
Filed February 20, 1928. Serial No. 261,999. PUBLISHED APRIL 24, 1928. Class 12.

245,434. COTTON, LISLE, MERCERIZED, SILK, FIBER, RAYON, SILK AND WOOL HOSIERY FOR INFANTS, MISSES, LADIES, BOYS, AND MEN. PRICE-SNAPP-JONES CO., Little Rock, Ark.
Filed February 20, 1928. Serial No. 261,987. PUBLISHED MAY 1, 1928. Class 39.

245,435. BREAD. MCCLAVIN'S BREAD, INC., Denver, Colo.
Filed February 20, 1928. Serial No. 261,975. PUBLISHED MAY 22, 1928. Class 46.

245,436. RABBITS, RABBIT SKINS, RABBIT FUR, AND RABBIT HAIR. BROKAW FUR AND RABBIT CLUB INC., Pasadena, Calif.
Filed February 20, 1928. Serial No. 261,939. PUBLISHED MAY 29, 1928. Class 1.

245,437. POMADES FOR THE HAIR. STANDARD LABORATORIES, INC., New York, N. Y.
Filed February 20, 1928. Serial No. 261,931. PUBLISHED APRIL 24, 1928. Class 6.

245,438. POMADES FOR THE HAIR. STANDARD LABORATORIES, INC., New York, N. Y.
Filed February 20, 1928. Serial No. 261,930. PUBLISHED APRIL 24, 1928. Class 6.

245,439. FLUID FOR FILLING CIGAR AND CIGARETTE LIGHTERS. RAPID MANUFACTURING COMPANY, New York, N. Y.
Filed February 18, 1928. Serial No. 261,908. PUBLISHED MAY 29, 1928. Class 6.

245,440. MEDICINAL PREPARATIONS. FOOD BALANCE CORPORATION, Chicago, Ill.
Filed February 18, 1928. Serial No. 261,871. PUBLISHED MAY 29, 1928. Class 6.

245,441. CLOTHING—NAMELY, MEN'S, WOMEN'S, AND CHILDREN'S MAKINAWS, OVERCOATS, STOCKINGS, WOOLEN OUTER SHIRTS, AND SWEATERS. PENDLETON WOOLEN MILLS, Portland, Oreg.
Filed February 17, 1928. Serial No. 261,833. PUBLISHED MAY 1, 1928. Class 39.

245,442. COAL. THE DELAWARE, LACKAWANNA & WESTERN COAL COMPANY, New York, N. Y.
Filed February 17, 1928. Serial No. 261,799. PUBLISHED APRIL 24, 1928. Class 1.

245,443. UNSENSITIZED AND UNEXPOSED FILMS. CELLULOID CORPORATION, Newark, N. J.
Filed February 17, 1928. Serial No. 261,793. PUBLISHED MAY 8, 1928. Class 50.

245,444. HEALING SALVE FOR EXTERNAL USE, CATARRH BALM; LINIMENT USED FOR RHEUMATISM, NEURALGIA, HEADACHE, TOOTHACHE, SORE THROAT AND CHEST, LUMBAGO, SPRAINS, AND BRUISES; HAIR TONIC, VANISHING CREAM, SKIN-CLEANSING CREAM, PREPARATION FOR TREATMENT OF CORNS, ANTISEPTIC DENTIFRICE, COUGH SYRUP, AND NERVE-TONIC TABLETS. CHARLES VARNELL, doing business as Pawnee Indian Medicine Company, Columbus, Ohio, and Granite City, Ill.
Filed February 20, 1928. Serial No. 262,003. PUBLISHED MAY 22, 1928. Class 6.

245,445. TANNER'S BATE; TANNER'S OILS, FATS, AND WAXES; CHROME TANNAGES, BICHROMATE OF SODA, CHROMATE OF SODA, AND CHROMIC ACID. THE MARTIN DENNIS COMPANY, Newark, N. J.
Filed March 27, 1928. Serial No. 263,828. PUBLISHED MAY 15, 1928. Class 6.

245,446. ESSENCES OF PERFUMES, ESSENCES FOR PERFUMERY MATERIALS, AROMATIC MATERIALS, SYNTHETIC PERFUME MATERIALS, ODORIFEROUS MATERIALS, AND ETHEREAL OILS. ARNOLD LOUIS VAN AMERINGEN, New York, N. Y.
Filed March 26, 1928. Serial No. 263,794. PUBLISHED MAY 22, 1928. Class 6.

245,447. SCRIP COINS. THE OSBORNE REGISTER COMPANY, Cincinnati, Ohio.
Filed March 26, 1928. Serial No. 263,784. PUBLISHED MAY 29, 1928. Class 50.

245,448. LAXATIVES. ANTONINO R. MARTINO, doing business as Italy Laboratories, New York, N. Y.
Filed March 26, 1928. Serial No. 263,772. PUBLISHED MAY 22, 1928. Class 6.

245,449. GARGLE FOR QUINSY SORE THROAT. CHARLES MARION JEFFERSON, doing business as Quinsy Gargle Company, Chicago, Ill.
Filed March 26, 1928. Serial No. 263,764. PUBLISHED MAY 22, 1928. Class 6.

245,450. FOOT LOTION. FRANK P. BEARD, doing business as Darlco Products Co., Darlington, S. C.
Filed March 26, 1928. Serial No. 263,743. PUBLISHED MAY 29, 1928. Class 6.

245,451. DOUBLE IODURE OF QUININE AND BISMUTH. LES ETABLISSEMENTS POULENC FRERES, Paris, France.
Filed March 24, 1928. Serial No. 263,710. PUBLISHED MAY 29, 1928. Class 6.

245,452. INHALANT FOR TREATING NASAL AND BRONCHIAL DISORDERS. ADSON CHEMICAL CO., INC., New York, N. Y.
Filed March 24, 1928. Serial No. 263,676. PUBLISHED MAY 22, 1928. Class 6.

245,453. NONFERROUS SHEETS, STRIPS, RODS, TUBES, BARS, AND PLATES. THE NEW HAVEN COPPER CO., Seymour, Conn.
Filed March 23, 1928. Serial No. 263,662. PUBLISHED MAY 29, 1928. Class 14.

245,454. UNSENSITIZED AND UNEXPOSED FILMS. CELLULOID CORPORATION, Newark, N. J.
Filed February 17, 1928. Serial No. 261,792. PUBLISHED MAY 8, 1928. Class 50.

245,455. MEN'S OUTER CLOTHING, AS FOLLOWS: COATS, VESTS, TROUSERS, AND OVERCOATS. INTERNATIONAL TAILORING CO., New York, N. Y.
Filed February 16, 1928. Serial No. 261,754. PUBLISHED MAY 1, 1928. Class 39.

245,456. LEATHER SHOES. GALE SHOE MANUFACTURING CO., Boston, Mass., and Manchester, N. H.
Filed February 16, 1928. Serial No. 261,750. PUBLISHED MAY 1, 1928. Class 39.

245,457. DOLLS. GEO. BORGFELDT & CO., New York, N. Y.
Filed February 15, 1928. Serial No. 261,693. PUBLISHED MAY 29, 1928. Class 22.

245,458. HOSIERY AND UNDERWEAR OF KNITTED AND TEXTILE FABRIC FOR MEN, WOMEN, AND CHILDREN. THE OTTUMWA MERCANTILE CO., Ottumwa, Ia.
Filed February 13, 1928. Serial No. 261,644. PUBLISHED MAY 1, 1928. Class 39.

245,459. MEDICINE FOR THE RELIEF OF COLDS, INFLUENZA, AND KINDRED AILMENTS. HENRY E. COUPLAND, doing business as The Alkalax Company, Colorado Springs, Colo.
Filed March 12, 1928. Serial No. 263,036. PUBLISHED MAY 29, 1928. Class 6.

245,460. WATERPROOF CEMENT. THE COLORADO PORTLAND CEMENT COMPANY, Denver, Colo.
Filed March 12, 1928. Serial No. 263,035. PUBLISHED MAY 15, 1928. Class 12.

245,461. ASTRINGENTS, ASTRINGENT CERATES, ETC. THE MISSES BAETZ, New York, N. Y.
Filed March 12, 1928. Serial No. 263,024. PUBLISHED MAY 29, 1928. Class 6.

245,462. WOMEN'S, MISSES', AND CHILDREN'S DRESSES. FRAGER BROS. GARMENT CO., St. Louis, Mo.
Filed March 12, 1928. Serial No. 262,998. PUBLISHED MAY 1, 1928. Class 39.

245,463. BREAD AND CRACKERS. WILLIAM H. BROOKS, doing business as Greenline Bakeries, San Francisco, Calif.
Filed March 12, 1928. Serial No. 262,997. PUBLISHED MAY 22, 1928. Class 46.

245,464. SEEDS, BULBS, PLANTS, AND MOSS. AMERICAN BULB COMPANY, Chicago, Ill.
Filed March 12, 1928. Serial No. 262,993. PUBLISHED MAY 22, 1928. Class 1.

245,465. HARD-RUBBER MATERIAL IN SHEET, ROD, AND TUBULAR FORM. DR. HEINR. TRAUN & SÖHNE, VORMALS HARBURGER GUMMI-KAMM-COMPAGNIE, Hamburg, Germany.
Filed March 10, 1928. Serial No. 262,976. PUBLISHED MAY 15, 1928. Class 1.

245,466. SACHETS AND WAVE-SETTING PREPARATIONS. EUGENE LTD., New York, N. Y.
Filed February 21, 1928. Serial No. 262,024. PUBLISHED MAY 22, 1928. Class 6.

245,467. WATERPROOFED TEXTILE FABRICS. YORK MANUFACTURING COMPANY, doing business as Yomanco Production Co., Saco, Me.
Filed January 28, 1928. Serial No. 260,867. PUBLISHED MAY 8, 1928. Class 50.

245,468. WOOL, FURS, AND BONE. CONSOLIDATED RENDERING COMPANY, doing business as Atlantic Packing Company, Boston, Mass.
Filed January 28, 1928. Serial No. 260,806. PUBLISHED APRIL 24, 1928. Class 1.

245,469. ADVERTISING SIGNS ILLUMINATED BY DAYLIGHT. GEORGE HYMAN, New York, N. Y., assignor to Beam-O-Lite Sign Corporation of America, Dover, Del., a Corporation of Delaware.
Filed January 26, 1928. Serial No. 260,684. PUBLISHED APRIL 24, 1928. Class 50.

245,470. PLASTER. CALIFORNIA STUCCO PRODUCTS COMPANY, Los Angeles, Calif.
Filed January 24, 1928. Serial No. 260,554. PUBLISHED MAY 8, 1928. Class 12.

245,471. FURNITURE POLISH. THE GLOBE-WERNICKE CO., Norwood, Ohio.
Filed January 23, 1928. Serial No. 260,499. PUBLISHED MAY 29, 1928. Class 16.

245,472. SPECIALLY-PREPARED SAWDUST. MAURICE H. GLASSMAN, Boston, Mass.
Filed January 21, 1928. Serial No. 260,443. PUBLISHED MAY 22, 1928. Class 1.

245,473. GARMENTS FOR WOMEN, MEN'S, AND CHILDREN'S UNDERWEAR. VANITY FAIR SILK MILLS, Reading, Pa.
Filed January 19, 1928. Serial No. 260,364. PUBLISHED APRIL 10, 1928. Class 39.

245,474. PORTLAND CEMENT. GUSTAVE DEROOVER, Woluwe-St. Lambert, Belgium.
Filed January 20, 1928. Serial No. 260,378. PUBLISHED MAY 15, 1928. Class 12.

245,475. INCUBATORS AND BROODERS. BERT E. DAVIS, Waterloo, Iowa.
Filed January 21, 1928. Serial No. 260,427. PUBLISHED MAY 22, 1928. Class 50.

245,476. TOILET POWDER. PINAUD INCORPORATED, New York, N. Y.
Filed January 18, 1928. Serial No. 260,305. PUBLISHED MAY 22, 1928. Class 6.

245,477. FLY PAPER. CHEMISCHE FABRIK REUTTER & CO., Westheim, near Wilhelmsgluck, Germany.
Filed January 18, 1928. Serial No. 260,257. PUBLISHED MAY 29, 1928. Class 50.

245,478. WOVEN FABRICS OF COTTON IMPREGNATED WITH PYROXYLIN SOLUTION. ATHOL MANUFACTURING COMPANY, Athol, Mass.
Filed January 14, 1928. Serial No. 260,078. PUBLISHED MAY 8, 1928. Class 50.

245,479. FURS, PELTS, HIDES, AND FUR AND HAIR FOR HAT MAKING. LUBTRIA CHAPAL FILS, Montreuil-Sous-Bois, France.
Filed January 13, 1928. Serial No. 260,060. PUBLISHED MAY 22, 1928. Class 1.

245,480. TABLE PADS. THE GREEN TABLE PAD CORP., New York and Brooklyn, N. Y.
Filed January 11, 1928. Serial No. 259,956. PUBLISHED MAY 1, 1928. Class 50.

245,481. TABLE PADS. THE GREEN TABLE PAD CORP. New York and Brooklyn, N. Y.
Filed January 11, 1928. Serial No. 259,955. PUBLISHED APRIL 24, 1928. Class 50.

245,482. TABLE PADS. THE GREEN TABLE PAD CORP. New York and Brooklyn, N. Y.
Filed January 11, 1928. Serial No. 259,954. PUBLISHED APRIL 17, 1928. Class 50.

245,483. BUILDING BRICK. WEST PENN BRICK COMPANY, Latrobe, Pa.
Filed January 10, 1928. Serial No. 259,936. PUBLISHED APRIL 24, 1928. Class 12.

245,484. SILK HOSIERY. PROPPER SILK HOSIERY MILLS, INC., New York, N. Y.
Filed January 9, 1928. Serial No. 259,872. PUBLISHED MARCH 13, 1928. Class 39.

245,485. LEATHER GOODS SUCH AS BILL FOLDS, WRITING CASES, HAND BAGS, CHANGE PURSES, ADDRESS BOOKS, AND KEY CASES. COLUMBIA MFG. CO., New York, N. Y.
Filed January 9, 1928. Serial No. 259,844. PUBLISHED MAY 29, 1928. Class 3.

245,486. CHAMOIS. ALLIED INDUSTRIAL PRODUCTS COMPANY, Chicago, Ill.
Filed January 7, 1928. Serial No. 259,789. PUBLISHED MAY 22, 1928. Class 1.

245,487. ALIMENTARY PASTES SUCH AS NOODLES, MACARONI, SPAGHETTI, AND THE LIKE. E. DALANG, & Co., Basel, Switzerland.
Filed January 6, 1928. Serial No. 259,763. PUBLISHED MARCH 6, 1928. Class 46.

245,488. COLD AND GRIPPE TABLETS. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,461. PUBLISHED MAY 29, 1928. Class 6.

245,489. COLD AND GRIPPE TABLETS. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,460. PUBLISHED MAY 29, 1928. Class 6.

245,490. TOOTH PASTE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,459. PUBLISHED MAY 29, 1928. Class 6.

245,491. TOOTH PASTE. MCKESSON & ROBBINS, INCORPORATED. Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,458. PUBLISHED MAY 29, 1928. Class 6.

245,492. TOOTH PASTE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,457. PUBLISHED MAY 29, 1928. Class 6.

245,493. TOOTH PASTE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,456. PUBLISHED MAY 29, 1928. Class 6.
Filed April 6, 1928. Serial No. 264,455. PUBLISHED

245,494. NOSE AND THROAT SPRAYS. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
LISHED MAY 29, 1928. Class 6.

245,495. OLEOMARGARINE. J. H. FILBERT INC., Baltimore, Md.
Filed April 6, 1928. Serial No. 264,426. PUBLISHED MAY 29, 1928. Class 46.

245,496. PREPARATION FOR NEUTRALIZING INFECTIONS. ABNER H. WEST, doing business as Inthol Company, Keyport, N. J.
Filed April 5, 1928. Serial No. 264,399. PUBLISHED MAY 29, 1928. Class 6.

245,497. LIQUID GLUE. ESSEX GELATINE COMPANY, doing business as Commonwealth Glue Company, Boston, Mass.
Filed April 5, 1928. Serial No. 264,368. PUBLISHED MAY 29, 1928. Class 5.

245,498. WHEAT FLOUR. THE WALNUT CREEK MILLING CO., INC., Great Bend, Kans.
Filed April 4, 1928. Serial No. 264,337. PUBLISHED MAY 22, 1928. Class 46.

245,499. BISCUIT, CAKE, AND CRACKERS. NATIONAL BISCUIT COMPANY, New York, N. Y.
Filed April 2, 1928. Serial No. 264,181. PUBLISHED MAY 29, 1928. Class 46.

245,500. BISCUIT, CAKE, AND CRACKERS. NATIONAL BISCUIT COMPANY, New York, N. Y.
Filed April 2, 1928. Serial No. 264,180. PUBLISHED MAY 29, 1928. Class 46.

245,501. WHEAT FLOUR. THE ANSTED & BURK CO., Springfield, Ohio.
Filed April 2, 1928. Serial No. 264,133. PUBLISHED MAY 22, 1928. Class 46.

245,502. CHEMICAL PRODUCT USED AS A CARBONIZATION OR WETTING AGENT AND FOR ACID FULLING AND FOR DYEING. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed March 31, 1928. Serial No. 264,124. PUBLISHED MAY 29, 1928. Class 6.

245,503. INHALANT FOR THE RELIEF OF HAY FEVER. GEORGE W. MCDONALD, Colorado Springs, Colo.
Filed March 31, 1928. Serial No. 264,114. PUBLISHED MAY 29, 1928. Class 6.

245,504. NONALCOHOLIC AND NONTOXIC CHEMICAL SOLVENTS FOR ESSENTIAL OILS AND FLAVORING EXTRACTS. FELTON CHEMICAL COMPANY, INC., Brooklyn, N. Y.
Filed March 31, 1928. Serial No. 264,093. PUBLISHED MAY 22, 1928. Class 6.

245,505. WHEAT BREAKFAST FOOD. CREAM OF WHEAT COMPANY, Minneapolis, Minn.
Filed March 29, 1928. Serial No. 263,928. PUBLISHED MAY 22, 1928. Class 46.

245,506. LAXATIVES. NUTLAX CORPORATION, New York, N. Y.
Filed March 28, 1928. Serial No. 263,886. PUBLISHED MAY 22, 1928. Class 6.

245,507. AWNINGS, AWNING FIXTURES, AND AWNING PARTS. NEW YORK AWNING CO. INC., New York, N. Y.
Filed March 28, 1928. Serial No. 263,883. PUBLISHED MAY 29, 1928. Class 50.

245,508. STEEL, IRON, BRASS, ALLOY, AND COMPOSITION METAL CASTINGS. DOIGE MANUFACTURING CORPORATION, Mishawaka, Ind., and Oneida, N. Y.
Filed November 15, 1924. Serial No. 205,322. PUBLISHED MAY 29, 1928. Class 14.

245,509. ELECTRIC CIGAR LIGHTERS. PREMIER ELECTRIC COMPANY, Chicago, Ill.
Filed April 23, 1926. Serial No. 230,642. PUBLISHED SEPTEMBER 20, 1927. Class 21.

245,510. EAU DE COLOGNE WATER, PERFUMERY, HAIR TONICS, SHAMPOO, POMADE, BRILLIANTINE, COLD CREAM, VANISHING CREAM, ROUGE, FACE POWDER, BABY POWDER, SHAVING LOTION, TOOTH PASTE, MOUTH WASH, HEAD TONICS, AND ETHEREAL OILS FOR PERFUMES. PAUL PETER MÜLHENS, doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne, Germany.
Filed March 24, 1926. Serial No. 229,121. PUBLISHED MAY 29, 1928. Class 6.

245,511. LEATHER. FRIED-LANG LEATHER CO., INC., New York, N. Y.
Filed February 24, 1926. Serial No. 227,736. PUBLISHED APRIL 24, 1928. Class 1.

245,512. CORK PIPE, CORK BOARD, AND CORK TILE. CORK IMPORT CORPORATION, New York, N. Y.
Filed February 17, 1926. Serial No. 227,396. PUBLISHED MAY 15, 1928. Class 12.

245,513. WINDOW-DISPLAY FRAMES FOR EXHIBITING TRANSPARENCIES. F. B. KELLY CO. INC., Rochester, N. Y.
Filed January 20, 1926. Serial No. 226,148. PUBLISHED APRIL 24, 1928. Class 50.

245,514. KNIT DRESSES, KNIT SUITS FOR WOMEN AND CHILDREN, KNIT SKIRTS, AND MEN'S KNIT SHIRTS. UTAH WOOLEN MILLS, Salt Lake City, Utah.
Filed April 2, 1925. Serial No. 212,112. PUBLISHED JUNE 15, 1926. Class 39.

245,515. WHOLE-GRAIN WHEAT. DANT & ATWOOD, doing business as William Garnett Company, Louisville, Ky.
Filed May 20, 1927. Serial No. 249,314. PUBLISHED MAY 29, 1928. Class 46.

245,516. MEDICINE TO AID IN DIGESTION OF FOODS. LEROY M. WILLIAMS, St. Louis, Mo.
Filed May 20, 1927. Serial No. 249,312. PUBLISHED JULY 12, 1927. Class 6.

245,517. DEVICE FOR MARKING PEDESTRIAN PATHWAY OR FOR OTHER MARKING PURPOSE. UNION TANK & PIPE CO., Los Angeles, Calif.
Filed April 15, 1927. Serial No. 247,505. PUBLISHED APRIL 24, 1928. Class 50.

245,518. POULTRY AND LIVESTOCK FOOD. RICHIE R. SAWYER, doing business as Sawyer Grain Company, San Francisco, Calif.
Filed April 9, 1927. Serial No. 247,214. PUBLISHED APRIL 10, 1928. Class 46.

245,519. GLOVES OF WOOL, FABRIC, AND LEATHER. BENJAMIN F. WIDMAN, doing business as Widman & Frank, New York, N. Y.
Filed March 26, 1927. Serial No. 246,454. PUBLISHED MAY 8, 1928. Class 39.

245,520. FOLDERS FOR POCKET CHECK PROTECTORS. ROSSID MANUFACTURING CORPORATION, Orlando, Fla.
Filed March 5, 1927. Serial No. 245,299. PUBLISHED MAY 29, 1928. Class 3.

245,521. SLATE AND ASPHALT COMPOSITION ROOFING. THE BELKNAP HARDWARE & MANUFACTURING COMPANY, Louisville, Ky.
Filed March 7, 1927. Serial No. 245,325. PUBLISHED MAY 1, 1928. Class 12.

245,522. SOLE LEATHER. LICHTENBERGER-FERGUSON COMPANY, Los Angeles, Calif.
Filed February 23, 1927. Serial No. 244,780. PUBLISHED MAY 22, 1928. Class 1.

245,523. ASPHALT PAVING. THE BITUMINOUS CONSTRUCTION COMPANY, Cleveland, Ohio.
Filed February 12, 1927. Serial No. 244,281. PUBLISHED MAY 15, 1928. Class 12.

245,524. DYED SKINS. AMERICAN FUR DYEING CO.—SUCCESSFUL CARACUL DYERS INC., North Bergen, N. J.
Filed February 8, 1927. Serial No. 243,991. PUBLISHED MAY 1, 1928. Class 1.

245,525. MEDICINAL PREPARATION FOR TREATING DISEASES OF THE BLOOD AND FOR THE RELIEF OF CATARRH AND RHEUMATISM. CHIEF REMEDY COMPANY, St. Joseph, Mo.
Filed February 3, 1927. Serial No. 243,749. PUBLISHED MAY 29, 1928. Class 6.

245,526. BOTTLED MILK. GRAY-VON ALLMEN SANITARY MILK CO., INC., Louisville, Ky.
Filed January 22, 1927. Serial No. 243,207. PUBLISHED MAY 22, 1928. Class 46.

245,527. HYGIENIC CREAM OR PASTE FOR THE SKIN. LESQUENDIEU INCORPORATED, New York, N. Y.
Filed January 6, 1927. Serial No. 242,433. PUBLISHED MAY 29, 1928. Class 6.

245,528. COFFEE. ALLEN-RETHEMEYER CO., doing business as Rethemeyer Coffee Co., St. Louis, Mo.
Filed December 14, 1926. Serial No. 241,459. PUBLISHED APRIL 26, 1927. Class 46.

245,529. BAGS AND POCKETBOOKS. THE BEDELL COMPANY, New York, N. Y.
Filed November 23, 1926. Serial No. 240,472. PUBLISHED MAY 22, 1928. Class 3.

245,530. MEDICINES AND PHARMACEUTICAL PREPARATIONS—NAMELY, ANTISEPTIC OINTMENTS, ANTISEPTIC DRY DRESSING, LIQUID PREPARATIONS FOR EXTERNAL USE IN THE TREATMENT OF BRUISES AND INFLAMMATIONS, ANTISEPTICS, STIMULANTS, SEDATIVES, MEDICATED ALCOHOL, BORACIC ACID, ARNICA, PEPPERMINT, AND CARRON OIL. WILLIAM V. MACGILL, doing business as William V. MacGill & Co., Chicago, Ill.
Filed July 3, 1926. Serial No. 234,141. PUBLISHED MAY 29, 1928. Class 6.

245,531. SALT. INDEPENDENT SALT COMPANY, New York, N. Y.
Filed September 25, 1926. Serial No. 237,737. PUBLISHED MAY 15, 1928. Class 6.

245,532. WHEAT FLOUR. SHELLABARGER MILLS & ELEVATOR COMPANY, doing business as The Mid-Kansas Milling Co., Salina, Kans.
Filed December 7, 1927. Serial No. 258,597. PUBLISHED MAY 22, 1928. Class 46.

245,533. WHEAT FLOUR. SHELLABARGER MILLS & ELEVATOR COMPANY, doing business as The Mid-Kansas Milling Co., Salina, Kans.
Filed December 7, 1927. Serial No. 258,596. PUBLISHED MAY 22, 1928. Class 46.

245,534. WHEAT FLOUR. SHELLABARGER MILLS & ELEVATOR COMPANY, doing business as The Mid-Kansas Milling Co., Salina, Kans.
Filed December 7, 1927. Serial No. 258,595. PUBLISHED MAY 22, 1928. Class 46.

245,535. COAL. LEAVELL COAL COMPANY, Tulsa, Okla.
Filed December 3, 1927. Serial No. 258,417. PUBLISHED APRIL 17, 1928. Class 1.

245,536. CERTAIN NAMED FABRICS. HILLSIDE COTTON MILLS, doing business as Valley Mills, Lagrange, Ga.
Filed December 2, 1927. Serial No. 258,334. PUBLISHED MAY 29, 1928. Class 42.

245,537. GOWNS, FROCKS, AND DRESSES. HARRY FRANK, New York, N. Y.
Filed December 1, 1927. Serial No. 258,260. PUBLISHED MAY 8, 1928. Class 39.

245,538. FLOWER, GARDEN, FARM, AND FIELD SEEDS. RUDY-PATRICK SEED COMPANY, Kansas City, Mo.
Filed November 29, 1927. Serial No. 258,194. PUBLISHED MARCH 20, 1928. Class 1.

245,539. SELF-RISING FLOUR. THE CARR MILLING COMPANY, Hamilton, Ohio.
Filed November 23, 1927. Serial No. 257,966. PUBLISHED MAY 22, 1928. Class 46.

245,540. SELF-RISING FLOUR. THE CARR MILLING COMPANY, Hamilton, Ohio.
Filed November 23, 1927. Serial No. 257,965. PUBLISHED MAY 22, 1928. Class 46.

245,541. LIQUID INJECTION FOR TREATMENT OF LEPROSY. AARON BENCHETRIT, New York, N. Y.
Filed November 19, 1927. Serial No. 257,768. PUBLISHED MAY 15, 1928. Class 6.

245,542. CEREAL FOOD PRODUCTS—NAMELY, WHEAT BREAKFAST FOODS AND TOASTED WHEAT FLAKES. HECKER-H-O COMPANY, INC., Buffalo, N. Y.
Filed November 14, 1927. Serial No. 257,545. PUBLISHED MAY 22, 1928. Class 46.

245,543. CEREAL FOOD PRODUCTS—NAMELY, SELF-RISING FLOUR FOR CAKES, PIES, BISCUITS, AND PASTRY. HECKER-H-O COMPANY, INC., Buffalo, N. Y.
Filed November 14, 1927. Serial No. 257,543. PUBLISHED MAY 22, 1928. Class 46.

245,544. CERTAIN NAMED CONSTRUCTION MATERIALS. THE J. W. MORTELL CO., Kankakee and Chicago, Ill.
Filed November 10, 1927. Serial No. 257,375. PUBLISHED APRIL 24, 1928. Class 12.

245,545. WIRE LATH. PITTSBURGH STEEL COMPANY, Pittsburgh, Pa.
Filed November 3, 1927. Serial No. 257,027. PUBLISHED MAY 29, 1928. Class 12.

245,546. BROODERS AND BROODER PARTS. THOMAS W. HUNTER, doing business as American Brooder Company, Alhambra, Calif.
Filed October 19, 1927. Serial No. 256,296. PUBLISHED MAY 1, 1928. Class 50.

245,547. WHEAT FLOUR. J. ALLEN SMITH & CO., Knoxville, Tenn.
Filed December 31, 1927. Serial No. 259,599. PUBLISHED APRIL 10, 1928. Class 46.

245,548. MATS FOR MOTOR VEHICLES. CORK MANUFACTURING CO. LTD., London, England.
Filed December 27, 1927. Serial No. 259,355. PUBLISHED MAY 29, 1928. Class 50.

245,549. LEATHER BOOTS AND SHOES. THE CHARLES E. LYNCH SHOE MFG. CO., INC., New York, N. Y.
Filed December 23, 1927. Serial No. 259,286. PUBLISHED MAY 8, 1928. Class 39.

245,550. HYDRATED LIME, QUICKLIME. UNITED STATES LIME PRODUCTS CORPORATION, San Francisco, Calif.
Filed December 22, 1927. Serial No. 259,264. PUBLISHED APRIL 24, 1928. Class 12.

245,551. FURNACE CEMENT. ALFRED FISHER FURNACES, INC., Chicago, Ill.
Filed December 21, 1927. Serial No. 259,192. PUBLISHED MAY 15, 1928. Class 12.

245,552. PILLS FOR USE IN CONNECTION WITH DISEASES OF THE KIDNEYS, LAXATIVES; TONICS FOR INTERNAL USE FOR THE TREATMENT OF SIMPLE ANEMIA, GENERAL WEAKNESS, NERVOUSNESS, MALNUTRITION, IMPAIRED ASSIMILATION, RICKETS, AND OTHER AILMENTS; EYE SALVE, AND SOOTHING AND HEALING OINTMENT. FOSTER-MILBURN CO., Buffalo, N. Y.
Filed December 17, 1927. Serial No. 259,058. PUBLISHED MAY 22, 1928. Class 6.

245,553. MEN'S CLOTHING—NAMELY, SUITS, OVERCOATS, TOPCOATS, AND TROUSERS. JOHNSON & GOLDSTEIN, New York, N. Y.
Filed December 14, 1927. Serial No. 258,911. PUBLISHED MAY 8, 1928. Class 39.

245,554. INSECTICIDE. MICHELANGELO PACELLA, M. D., Chicago, Ill.
Filed December 12, 1927. Serial No. 258,827. PUBLISHED MAY 29, 1928. Class 6.

245,555. PREPARATION USED FOR THE TREATMENT OF NERVOUS DISEASES, SEXUAL WEAKNESS AND IMPOTENCE, AND PREMATURE OLD AGE, ALSO A PREPARATION USED AS A TREATMENT TO PURIFY THE BLOOD. FERRO MEDICINE CO., San Antonio, Tex.
Filed December 12, 1927. Serial No. 258,807. PUBLISHED MAY 22, 1928. Class 6.

245,556. FRUIT PRESERVES. MAX AMS, INCORPORATED, New York, N. Y.
Filed December 10, 1927. Serial No. 258,713. PUBLISHED MAY 29, 1928. Class 46.

245,557. GRAIN YEAST. NATIONAL GRAIN YEAST CORPORATION, Belleville, N. J.
Filed December 8, 1927. Serial No. 258,645. PUBLISHED MAY 29, 1928. Class 46.

245,558. WHEAT FLOUR. SHELLABARGER MILLS & ELEVATOR COMPANY, doing business as The Mid-Kansas Milling Co., Salina, Kans.
Filed December 7, 1927. Serial No. 258,598. PUBLISHED MAY 22, 1928. Class 46.

245,559. HOSIERY. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo.
Filed October 31, 1927. Serial No. 256,835. PUBLISHED MAY 8, 1928. Class 39.

245,560. MEDICAL PREPARATION FOR THE RELIEF OF RHEUMATISM, BLOOD POISON, RASH, AND INFLAMMATION. EDMOND GELINAS, doing business as Gelinas Medicine Company, Woonsocket, R. I.
Filed October 27, 1927. Serial No. 256,668. PUBLISHED MAY 29, 1928. Class 6.

245,561. LINIMENT FOR WOUNDS, CONTUSIONS, ABRASIONS, EXCORIATIONS, CUTS, SCRATCHES, CHILBLAINS, BURNS, SCALDS, SUNBURN, INFLAMED JOINTS, SPRAINS, COLDS, NEURALGIA, AND RHEUMATISM. EMERSON C. HULL, doing business as Jacob Hull & Sons, Poughkeepsie, N. Y.
Filed October 26, 1927. Serial No. 256,627. PUBLISHED JANUARY 10, 1928. Class 6.

245,562. COLD AND GRIPPE TABLETS. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,462. PUBLISHED MAY 29, 1928. Class 6.

245,563. NESTLING FOOD, COD-LIVER OIL FOOD, COLOR FOOD, AND SONG FOOD FOR BIRDS. CHAS. J. KOCH, doing business as Wonder Brand Food Co., Jersey City, N. J.
Filed April 17, 1928. Serial No. 264,993. PUBLISHED MAY 29, 1928. Class 46.

245,564. BISCUITS. MEYER & LANGE, INC., New York, N. Y.
Filed April 12, 1928. Serial No. 264,731. PUBLISHED MAY 29, 1928. Class 46.

245,565. ADHESIVE PASTE. THE CARTER'S INK COMPANY, Cambridge, Mass.
Filed March 24, 1928. Serial No. 263,688. PUBLISHED MAY 22, 1928. Class 5.

245,566. BISCUITS, CRACKERS, AND HARD CAKES. SOUTHERN BISCUIT COMPANY, INC., Richmond, Va.
Filed April 9, 1928. Serial No. 264,615. PUBLISHED MAY 29, 1928. Class 46.

245,567. BISCUITS, CRACKERS, AND HARD CAKES. SOUTHERN BISCUIT COMPANY, INC., Richmond, Va.
Filed April 9, 1928. Serial No. 264,614. PUBLISHED MAY 29, 1928. Class 46.

245,568. MINERAL FEED AND GRAIN FEED FOR STOCK. MILLER PRODUCTS COMPANY, Waterloo, Iowa.
Filed April 9, 1928. Serial No. 264,598. PUBLISHED MAY 29, 1928. Class 46.

245,569. HAIR TONIC. THE ODELL COMPANY, INC., Newark, N. J.
Filed April 6, 1928. Serial No. 264,471. PUBLISHED MAY 29, 1928. Class 6.

245,570. OINTMENT FOR USE ON INFLAMMATION. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,469. PUBLISHED MAY 29, 1928. Class 6.

245,571. OINTMENT FOR USE ON INFLAMMATION. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,468. PUBLISHED MAY 29, 1928. Class 6.

245,572. TOOTH PASTE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,467. PUBLISHED MAY 29, 1928. Class 6.

245,573. TOOTH PASTE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,466. PUBLISHED MAY 29, 1928. Class 6.

245,574. THROAT SPRAY OR GARGLE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,465. PUBLISHED MAY 29, 1928. Class 6.

245,575. COAL. W. NORMAN WILLIS, Louisville, Ky.
Filed November 28, 1927. Serial No. 258,156. PUBLISHED APRIL 17, 1928. Class 1.

245,576. MEN'S, WOMEN'S, AND CHILDREN'S UNDERWEAR OF KNITTED AND TEXTILE FABRICS; SPORT COATS OF KNITTED OR NETTED TEXTILE FABRICS FOR MEN, WOMEN, OR CHILDREN; SWEATERS FOR MEN, WOMEN, AND CHILDREN OF COTTON AND WOOL; FLANNEL SHIRTS FOR MEN, AND DRESS SHIRTS FOR MEN. NEELY, HARWELL & CO., Nashville, Tenn.
Filed September 12, 1927. Serial No. 254,643. PUBLISHED MAY 8, 1928. Class 39.

245,577. BUILDING BLOCKS, BRICKS, AND TILES. HUDSON FIREPROOF BLOCK CO., North Bergen and Homestead, N. J.
Filed July 13, 1927. Serial No. 251,971. PUBISHED MAY 22, 1928. Class 12.

245,578. HATS ADAPTED TO BE WORN BY MEN, WOMEN, AND CHILDREN. KULEHED, INC., Cambridge, Mass.
Filed July 12, 1927. Serial No. 251,911. PUBLISHED MAY 8, 1928. Class 39.

245,579. LAXATIVE FOR THE TREATMENT OF CONSTIPATION AND COLITIS. JOHN J. WEIR, doing business as Calicoffee Company, Loma Linda, Calif.
Filed July 9, 1927. Serial No. 251,804. PUBLISHED MAY 29, 1928. Class 6.

245,580. COATS FOR WOMEN, MISSES, AND CHILDREN. HARRIS BROS. & MANN INC., New York, N. Y.
Filed July 1, 1927. Serial No. 251,394. PUBLISHED MAY 8, 1928. Class 39.

245,581. TABLE MATS. THE PIONEER TABLE MAT COMPANY, Cleveland, Ohio.
Filed June 23, 1927. Serial No. 251,011. PUBLISHED MAY 29, 1928. Class 50.

245,582. STOMACHIC. HUBERT UNDERBERG, doing business as H. Underberg-Albrecht, Rheinberg, Germany.
Filed June 18, 1927. Serial No. 250,773. PUBLISHED MAY 22, 1928. Class 6.

245,583. STOMACHIC. HUBERT UNDERBERG, doing business as H. Underberg-Albrecht, Rheinberg, Germany.
Filed June 18, 1927. Serial No. 250,772. PUBLISHED MAY 22, 1928. Class 6.

245,584. STOMACHIC. HUBERT UNDERBERG, doing business as H. Underberg-Albrecht, Rheinberg, Germany.
Filed June 18, 1927. Serial No. 250,771. PUBLISHED MAY 22, 1928. Class 6.

245,585. STOMACHIC. HUBERT UNDERBERG, doing business as H. Underberg-Albrecht, Rheinberg, Germany.
Filed June 18, 1927. Serial No. 250,770. PUBLISHED MAY 22, 1928. Class 6.

245,586. HIGH-GRADE BITUMINOUS COAL. RINGGOLD COAL COMPANY, Timblin, Pa.
Filed June 16, 1927. Serial No. 250,640. PUBLISHED MAY 1, 1928. Class 1.

245,587. SANDWICHES. HARRY H. CLARK, New York, N. Y.
Filed June 9, 1927. Serial No. 250,229. PUBLISHED MAY 22, 1928. Class 46.

245,588. ROAD-BUILDING MATERIALS—NAMELY, BITUMEN-COATED STONE. THE BARRETT COMPANY, New York, N. Y.
Filed October 5, 1927. Serial No. 255,631. PUBLISHED MAY 8, 1928. Class 12.

245,589. CERTAIN NAMED CONSTRUCTION MATERIALS. ANDREW M. FAIRLIE, Atlanta, Ga.
Filed September 17, 1927. Serial No. 254,842. PUBLISHED MAY 29, 1928. Class 12.

245,590. OINTMENTS AND SALVES TO BE USED IN THE TREATMENT OF PILES, BURNS, SUNBURN, CHAPPED AND CRACKED HANDS, CHAPPED AND CRACKED LIPS, CORNS, AND BUNIONS. ERNEST A. SMITH, doing business as E. A. Smith Co., Westerly, R. I.
Filed September 13, 1927. Serial No. 254,693. PUBLISHED JANUARY 10, 1928. Class 6.

245,591. THERMAL INSULATION MATERIAL. VORCLONE COMPANY, Milwaukee, Wis.
Filed September 12, 1927. Serial No. 254,652. PUBLISHED MAY 22, 1928. Class 12.

245,592. PLASTIC COMPOSITIONS IN THE NATURE OF ARTIFICIAL HORN. AMERICAN CATALIN CORP., New York, N. Y.
Filed September 7, 1927. Serial No. 254,439. PUBLISHED MAY 29, 1928. Class 50.

245,593. CERTAIN NAMED CONSTRUCTION MATERIALS. METROPOLITAN ROOFING SUPPLIES COMPANY, INC., New York, N. Y.
Filed August 31, 1927. Serial No. 254,196. PUBLISHED MAY 1, 1928. Class 12.

245,594. CERTAIN NAMED CONSTRUCTION MATERIALS. METROPOLITAN ROOFING SUPPLIES COMPANY, INC., New York, N. Y.
Filed August 31, 1927. Serial No. 254,195. PUBLISHED MAY 1, 1928. Class 12.

245,595. STRIPS FOR TERRAZZO FLOORING. MANHATTAN TERRAZZO BRASS STRIP COMPANY, INC., New York, N. Y.
Filed August 31, 1927. Serial No. 254,187. PUBLISHED APRIL 24, 1928. Class 12.

245,596. CERTAIN NAMED RAW OR PARTLY-PREPARED MATERIALS. N. V. NEDERLANDSCHE KUNSTZIJDEFABRIEK, Arnhem, Netherlands.
Filed August 30, 1927. Serial No. 254,146. PUBLISHED APRIL 24, 1928. Class 1.

245,597. HOSE PROTECTOR ADAPTED TO BE ADHESIVELY SECURED TO THE INNER SURFACE OF THE UPPER HEEL OF A SHOE. LEON LYONS, doing business as Lyons Hose Protector Company, Omaha, Nebr.
Filed August 27, 1927. Serial No. 254,042. PUBLISHED MAY 8, 1928. Class 39.

245,598. EDIBLE TABLETS COMPOSED OF MEAL, IPECAC, AND ROOT FOR USE IN REDUCING FLESH. GEORGIA A. POST, Forest Hills, N. Y.
Filed August 20, 1927. Serial No. 253,769. PUBLISHED MAY 22, 1928. Class 6.

TRADE-MARK REGISTRATIONS RENEWED

32,036. RAILWAY FREIGHT AND PASSENGER CARS. Registered October 4, 1898. UNION PACIFIC RAILROAD COMPANY, Omaha, Nebr., a Corporation of Utah. Renewed October 4, 1928.

32,234. CERTAIN NAMED PACKING-HOUSE PRODUCTS. Registered December 13, 1908. SWIFT AND COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed December 13, 1928.

32,260. ROASTED OR PREPARED COFFEE. Registered December 20, 1898. WOLFE, MCMILLAN & CO. Renewed December 20, 1928, to L. H. Parke Company, Philadelphia, Pa., a Corporation of Pennsylvania, assignee.

32,275. ETHEREAL PREPARATIONS FOR PRODUCING LOCAL ANÆSTHESIA. Registered December 20, 1898. MCKESSON & ROBBINS, New York, N. Y. Renewed December 20, 1928, to McKesson & Robbins, Incorporated, Bridgeport, Conn., a Corporation of Connecticut, successor.

32,278. SEWING MACHINES, STANDS, AND ATTACHMENTS THEREFOR. Registered December 20, 1898. NATIONAL SEWING MACHINE COMPANY, Belvidere, Ill., a Corporation of Illinois. Renewed December 20, 1928.

32,279. SEWING MACHINES, STANDS, AND ATTACHMENTS THEREFOR. Registered December 20, 1898, to National Sewing Machine Company, Belvidere, Ill., a Corporation of Illinois. Renewed December 20, 1928.

32,301. CERTAIN NAMED BAKERY PRODUCTS AND CONFECTIONERY. Registered December 27, 1898. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and Chicago, Ill. Renewed December 27, 1928, to National Biscuit Company, New York, N. Y., a Corporation of New Jersey.

69,785. CERTAIN MACHINERY AND PARTS THEREOF. Registered July 7, 1908. DETROIT LUBRICATOR COMPANY, Detroit, Mich., a Corporation of Michigan. Renewed July 7, 1928.

69,844. GRIT FOR POULTRY. Registered July 14, 1908. EDGE HILL SILICA ROCK CO., New Brunswick, N. J., a Corporation of New Jersey. Renewed July 14, 1928.

69,908. A CHEMICAL COMPOUND FOR CLEANSING STRAW. Registered July 14, 1908. MAURICE J. BEBB, Xenia, Ohio. Renewed July 14, 1928.

70,085. VALVES AND PARTS THEREOF. Registered July 28, 1908. STAR BRASS MANUFACTURING COMPANY, Boston, Mass., a Corporation of Massachusetts. Renewed July 28, 1928.

70,100. CORSETS. Registered July 28, 1908. JULIUS GARFINKLE. Renewed July 28, 1928, to Julius Garfinckel, trading as Julius Garfinckel & Co., Washington, D. C., assignee.

70,160. A REMEDY FOR THE NERVES AND NERVOUS DISORDERS. Registered August 4, 1908. DR. S. A. RICHMOND NERVINE CO., St. Joseph, Mo., a Corporation of Missouri. Renewed August 4, 1928.

70,197. REFRIGERATORS. Registered August 11, 1908. HERRICK REFRIGERATOR AND COLD STORAGE COMPANY, Waterloo, Iowa, a Corporation of Iowa. Renewed August 11, 1928.

70,198. REFRIGERATORS. Registered August 11, 1908. HERRICK REFRIGERATOR AND COLD STORAGE COMPANY, Waterloo, Iowa, a Corporation of Iowa. Renewed August 11, 1928.

70,276. COFFEE. Registered August 18, 1908. VOGEL BROS. & Co. Renewed August 18, 1928, to Athletic Tea Company, Inc., St. Louis, Mo., a Corporation of Missouri, successor.

70,297. LEATHER BOOTS, SHOES, AND SLIPPERS. Registered August 18, 1908. THE SCHEIFFELE SHOE MANUFACTURING COMPANY. Renewed August 18, 1928, to The United States Shoe Company, Cincinnati, Ohio, a Corporation of Ohio, successor.

70,332. SOAP. Registered August 25, 1908. GOODHAIR REMEDY COMPANY, Newark, Ohio. Renewed August 25, 1928, to The Goodhair Company, Cincinnati, Ohio, a Corporation of Ohio, successor.

70,804. LUBRICATING OILS. Registered October 6, 1908. SUN COMPANY. Renewed October 6, 1928, to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey, by change of name.

70,961. SARDINES. Registered October 20, 1908. THE NEUMAN & SCHWIERS CO. INC., New York, N. Y., a Corporation of New York. Renewed October 20, 1928.

70,986. LOOM TEMPLES. Registered October 20, 1908. DRAPER COMPANY, Portland, Me., and Hopedale, Mass. Renewed October 20, 1928, to Draper Corporation, Hopedale, Mass., a Corporation of Maine, assignee.

70,994. FISHING LINES. Registered October 20, 1908. E. J. MARTIN'S SONS, Rockville, Conn. Renewed October 20, 1928, to The Horton Manufactur'ng Company, Bristol, Conn., a Corporation of Connecticut, assignee.

71,210. BEER. Registered November 10, 1908. M. B. FOSTER & SONS, LIMITED. Renewed November 10, 1928, to M. B. Foster & Sons, Limited, London, England, a Corporation of Great Britain, assignee.

71,217. PAPER BAGS. Registered November 10, 1908. THE UNION BAG & PAPER COMPANY, New York, N. Y. Renewed November 10, 1928, to Union Bag & Paper Corporation, Jersey City, N. J., and New York, N. Y., a Corporation of New Jersey, assignee.

71,285. CIGARS. Registered November 17, 1908, to Compañia General de Tabacos de Filipinas, Barcelona, Spain, a Corporation of Spain. Renewed November 17, 1928.

71,452. PRINTED COTTON PIECE GOODS. Registered November 24, 1908. NEUSS, HESSLEIN & Co. Renewed November 24, 1928, to Neuss, Hesslein & Co., Inc., New York, N. Y., a Corporation of New York, assignee.

71,453. PRINTED COTTON PIECE GOODS. Registered November 24, 1908. NEUSS, HESSLEIN & Co. Renewed November 24, 1928, to Neuss, Hesslein & Co., Inc., New York, N. Y., a Corporation of New York, assignee.

71,629. A MEDICINE FOR AILMENTS OF THE BLADDER. Registered December 8, 1908. FRIEDRICH ADOLF RICHTER, Rudolstadt, Germany, and New York, N. Y. Renewed December 8, 1928, to F. Ad. Richter & Co. of New York, Brooklyn, N. Y., a Corporation of New York, assignee.

71,815. FLAVORING EXTRACTS. Registered December 15, 1908. THE J. W. COLTON COMPANY, Springfield, Mass., a Corporation of Massachusetts. Renewed December 15, 1928.

71,834. NIGHTSHIRTS, PAJAMAS, AND SMOKING JACKETS. Registered December 15, 1908. THE PARAGON COMPANY, New York, N. Y., a Corporation of New York. Renewed December 15, 1928.

71,861. AUTOMOBILE AND BICYCLE TIRES OF RUBBER AND FABRIC. Registered December 15, 1908. AJAX-GRIER RUBBER COMPANY, Trenton, N. J. Renewed December 15, 1928, to Ajax Rubber Company, Inc., Racine, Wis., a Corporation of New York, assignee.

71,862. CERTAIN BITUMINOUS COMPOUNDS. Registered December 15, 1908. THE BARBER ASPHALT PAVING COMPANY. Renewed December 15, 1928, to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia, by change of name.

71,878. MEDICINAL SOAP. Registered December 22, 1908. GEORGE F. SMITH, Woodsboro, Md. Renewed December 22, 1928.

71,934. CERTAIN ROOFING AND BITUMINOUS COMPOUNDS. Registered December 22, 1908. THE BARBER ASPHALT PAVING COMPANY. Renewed December 22, 1928, to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia, by change of name.

71,955. WORSTED DRESS GOODS. Registered December 22, 1908. ARLINGTON MILLS, Lawrence and Boston, Mass., a Corporation of Massachusetts. Renewed December 22, 1928.

71,982. SAWS. Registered December 29, 1908. HENRY DISSTON & SONS, INCORPORATED, Tacony, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed December 29, 1928.

71,983. SAW SETS. Registered December 29, 1908. HENRY DISSTON & SONS, INCORPORATED, Tacony, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed December 29, 1928.

71,988. A MEDICINE FOR CERTAIN DISEASES. Registered December 29, 1908. WILLIAM D. BOWEN, Richmond, Va. Renewed December 29, 1928.

72,027. BEER. Registered December 29, 1908. M. B. FOSTER & SONS, LIMITED. Renewed December 29, 1928, to M. B. Foster & Sons, Limited, London, England, a Corporation of Great Britain, assignee.

72,032. PHOTOGRAPHIC CAMERAS, MOVING-PICTURE MACHINES, AND FILMS. Registered December 29, 1908. SOCIETE DES ETABLISSEMENTS GAUMONT, Paris, France, a Corporation of France. Renewed December 29, 1928.

72,044. BOOTS AND SHOES AND OVERSHOES. Registered December 29, 1908. HOOD RUBBER CO., Boston, Mass. Renewed December 29, 1928, to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts.

72,066. BUTTER. Registered December 29, 1908. HILMER COMMISSION CO., St. Louis, Mo., a Corporation of Missouri. Renewed December 29, 1928.

72,073. CERTAIN CLOTHING. Registered December 29, 1908. THE PRINTZ-BIEDERMAN COMPANY, Cleveland, Ohio, a Corporation of Ohio. Renewed December 29, 1928.

72,083. BLOTTING PAPER. Registered January 5, 1909. THE ALBEMARLE PAPER MANUFACTURING COMPANY, Richmond, Va., a Corporation of Virginia. Renewed January 5, 1929.

72,087. ORANGES. Registered January 5, 1909. CALIFORNIA FRUIT GROWERS EXCHANGE, Los Angeles, Calif., a Corporation of California. Renewed January 5, 1929.

72,302. CERTAIN CUTLERY. Registered January 12, 1909. DANIEL PERES. Renewed January 12, 1929, to Daniel Peres, Solingen, Germany, a Limited Company of Germany, successor.

LABELS

REGISTERED AUGUST 14, 1928.

34,419.—*Title:* BEECH-NUT BRAND CHEWING GUM, FRUIT FLAVOR (5). For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published April 14, 1926.

34,420.—*Title:* CATALINA. For Cookies. JOSEPH W. BRILL, Los Angeles, Calif. Published April 23, 1928.

34,421.—*Title:* PACKED IN TIN KEEPS FRESHNESS IN. For Food Products. CHRISTOPHER MERCANTILE COMPANY, Kansas City, Mo. Published April 19, 1928.

34,422.—*Title:* GOP. For Candy Bars. JOHN RALPH COLGAN, Kansas City, Mo. Published March 16, 1928.

34,423.—*Title:* PAIN'S MASTER. For Proprietary Medicines for Headaches, Colds, Etc. CORNEL DRUG STORES INC., New York, N. Y. Published April 2, 1928.

34,424.—*Title:* POWDER IN HASTE WITHOUT WASTE. For Powder Puffs. CLEMENCE FRANCK, San Francisco, Calif. Published April 5, 1928.

34,425.—*Title:* REVOLUTIONIZING THE POWDER-PUFF. For Powder Puffs. CLEMENCE FRANCK, San Francisco, Calif. Published April 5, 1928.

34,426.—*Title:* THE POWDER IS HERE TO STAY, WITH THIS END FOLDED IN OR TUCKED AWAY. For Powder Puffs. CLEMENCE FRANCK, San Francisco, Calif. Published April 5, 1928.

34,427.—*Title:* GHIGLIONE'S—SAY "GILL-YO-NE". For Noodles. A. F. GHIGLIONE & SONS, INC., Seattle, Wash. Published April 20, 1928.

34,428.—*Title:* SILVITOL TOBACCO HABIT REMEDY. For a Preparation to Prevent Craving for Tobacco. DR. W. D. HAMMOND, doing business as Silvitol Laboratory, Minneapolis, Minn. Published June 1, 1928.

34,429.—*Title:* NELL BRINKLEY HAIR NET. For Hair Nets. THE HAYES-DONOHUE MANUFACTURING COMPANY, INC., Milford, Conn. Published April 18, 1925.

34,430.—*Title:* FROZEN PEANUT BAR. For Ice-Cream Bar. HENRY W., INC., Chicago, Ill. Published May 5, 1928.

34,431.—*Title:* SNOW CAP. For Ginger Ale. HILDEBRANDT PRINTERY INC., Brooklyn, N. Y. Published May 18, 1928.

34,432.—*Title:* SALAD BOUQUET. For a Combined Condiment and Flavoring Compound. F. A. KAUFFMANN MFG. CO., St. Louis, Mo. Published May 25, 1928.

34,433.—*Title:* TEXITONE. For Medicine. JOSEPH ROLAND MARIONEAUX, doing business as Texitone Medicine Co., Shreveport, La. Published March 19, 1928.

34,434.—*Title:* NICOTEX. For Preparation for Removing Tobacco and Nicotine Stains from the Skin. THE NICOTEX COMPANY, New York, N. Y. Published June 26, 1928.

34,435.—*Title:* NOMA ELECTRIC CANDLE. For Electric Candle and Wreaths for Decorative Purposes. NOMA ELECTRIC CORPORATION, New York, N. Y. Published June 1, 1928.

34,436.—*Title:* CHOP SUEY BRAND GENUINE SOY SAUCE. For Soy Sauce. OAKLAND NOODLE FACTORY, Oakland, Calif. Published April 1, 1928.

34,437.—*Title:* PETER-PAN. For Canned Peas. PETER PAN SALES CORPORATION, doing business as Inderrieden Canning Co., Chicago, Ill. Published May 15, 1928.

34,438.—*Title:* OXOL. For Germicide Deodorant, Sterilizer Disinfectant, Cleanser, and Bleacher. J. L. PRESCOTT COMPANY, Philadelphia, Pa. Published June 19, 1928.

34,439.—*Title:* NEW YORKERS. For Chewing Gum. PAUL H. RAYMER, doing business as The New Yorkers Company, New York, N. Y. Published November 7, 1927.

34,440.—*Title:* ROY'S MALT SYRUP. For Malt Syrup. LEROY G. REINSHAGEN, doing business as Roy's Distributing Company, Cincinnati, Ohio. Published May 2, 1928

34,441.—*Title:* SHOTTS. For Medicinal Tonic. ROSE MEDICAL CO., Cleveland, Ohio. Published May 15, 1928.

34,442.—*Title:* SCHMID'S WOUND SALVE. For Medicinal Preparation in the Form of a Salve. KARL SCHMID AND PAULA SCHMID, Columbus, Ohio. Published May 1, 1928.

34,443.—*Title:* QUICKSHINE. For Polish for Lacquer, Varnish, and Enamel Finishes. HERMAN SILVER, doing business as French Quickshine Polish Co., Newark, N. J. Published May 24, 1928.

34,444.—*Title:* H. E. B. For Cough Medicine. LEO W. STALL, Buffalo, N. Y. Published May 15, 1928.

34,445.—*Title:* SUPER SERVICE. For Pure Vegetable-Oil Soap. SUPER SERVICE CORPORATION, Omaha, Nebr. Published March 30, 1928.

34,446.—*Title:* TEA GARDEN. For Syrup. TEA GARDEN PRODUCTS CO., San Francisco, Calif. Published June 15, 1928.

34,447.—*Title:* POPPY. For Syrup. TEA GARDEN PRODUCTS CO., San Francisco, Calif. Published June 15, 1928.

34,448.—*Title:* UTAH MAID. For Canned Tomatoes. THE UTAH CANNING CO., Ogden, Utah. Published May 15, 1928.

34,449.—*Title:* BARRED-ROCK. For Canned Chicken. VALLEY POULTRY COMPANY, San Leandro, Calif. Published April 20, 1928.

PRINTS

REGISTERED AUGUST 14, 1928.

11,149.—*Title:* COOL, FRESH, CLEAN UNDERWEAR! For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published June 30, 1928.

11,150.—*Title:* IF THRIFT IS YOUR AIM. For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published June 29, 1928.

11,151.—*Title:* COLLINGBOURNE'S ELGIN TWIST. For Mercerized Cotton Machine Twist. COLLINGBOURNE MILLS INC., Elgin, Ill. Published June 15, 1928.

11,152.—*Title:* COLORTONES. For Food Colors. THE COLORTONE COMPANY, INC., Milwaukee, Wis. Published May 9, 1928.

11,153.—*Title:* GOOD-WING FOOT-YEAR MEANS GOOD WEAR. For Tires Composed Wholly or in Part of Rubber. THE GOODYEAR TIRE & RUBBER COMPANY INC., Akron, Ohio. Published July 1, 1928.

11,154.—*Title:* ADFORM 83. For Coffee. HILLS BROS., San Francisco, Calif. Published June 10, 1928.

11,155.—*Title:* THE D. & H. LACKAWANNA ANTHRACITE. For Coal. THE HUDSON COAL COMPANY, Scranton, Pa. Published May 29, 1928.

11,156.—*Title:* THE D. & H. LACKAWANNA ANTHRACITE. For Coal. THE HUDSON COAL COMPANY, Scranton, Pa. Published May 29, 1928.

11,157.—*Title:* THE D. & H. LACKAWANNA ANTHRACITE. For Coal. THE HUDSON COAL COMPANY, Scranton, Pa. Published May 29, 1928.

11,158.—*Title:* FOR A SMART WOMAN HEARTBREAK AGE BEGINS WITH HER FIRST GRAY HAIR AND ENDS WHEN SHE FINDS NOTOX. For Inecto Rapid Notox. INECTO, INC., New York, N. Y. Published May 22, 1928.

11,159.—*Title:* NOTOX . . . MEANS THE END OF HEARTBREAK AGE. For Inecto Rapid Notox. INECTO, INC., New York, N. Y. Published May 26, 1928.

11,160.—*Title:* WHAT IS A WOMAN TO DO AT THE SIGN OF THE FIRST GRAY HAIR? For Inecto Rapid Notox. INECTO, INC., New York, N. Y. Published June 25, 1928.

11,161.—*Title:* BLITZ. For Preparation for the Treatment of Corns. WALTER C. KETCHUM, Yakima, Wash. Published May 11, 1928.

11,162.—*Title:* PFAFFMAN'S PREPARED FOOD PRODUCTS. For Alimentary Paste Products. THE PFAFFMAN EGG NOODLE COMPANY, Cleveland, Ohio. Published June 15, 1927.

11,163.—*Title:* ROSSITE. For Drainpipe Solvent. ROSS MANUFACTURING COMPANY, Kansas City, Mo. Published November 15, 1927.

11,164.—*Title:* JULIET SURE-LITE. For Fluid for Cigar Lighters. ALLEN SILBAR, doing business as Juliet Products Co., Chicago, Ill. Published June 4, 1928.

11,165.—*Title:* AND HE WONDERS WHY HE WASN'T PROMOTED. For Garters. A. STEIN & COMPANY, Chicago, Ill. Published May 2, 1928.

11,166.—*Title:* AND HE WONDERS WHY SUCCESS NEVER ARRIVES. For Garters. A. STEIN & COMPANY, Chicago, Ill. Published May 2, 1928.

11,167.—*Title:* AND HE WONDERS WHY THEY LAUGHED—AND HOW. For Garters. A. STEIN & COMPANY, Chicago, Ill. Published May 2, 1928.

11,168.—*Title:* AND HE WONDERS WHY SHE SAID "NO". For Garters. A. STEIN & COMPANY, Chicago, Ill. Published May 2, 1928.

11,169.—*Title:* SIMPLEX JACKS ARE "ACES" IN MANPOWER QUALITY AND SIMPLICITY. For Jacks. TEMPLETON, KENLY & CO., LIMITED, Chicago, Ill. Published July 2, 1928.

11,170.—*Title:* GOOD MORNING. For Furniture. WEIL BROS. INC., New York, N. Y. Published August 10, 1926.

REISSUES

AUGUST 14, 1928.

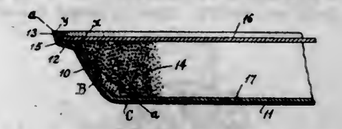
17,065. POWER-STOPPING DEVICE. NOAH LOUIS DAUPLAISE, South Manchester, Conn., assignor to Nelson L. Jarvis, Palmer, Mass. Filed Oct. 20, 1927. Serial No. 227,596. Original No. 1,558,595, dated Oct. 27, 1925, Serial No. 697,681, filed Mar. 7, 1924. 9 Claims. (Cl. 192—116.5.)



1. In a machine of the character described, means for applying power to the machine, a lever for shutting off and turning on the power, yielding means adapted to urge the power lever towards off power position, a pivoted lever engaging the power lever to hold it on power position, a solenoid engaging one end of the pivoted lever, an idler wheel having an electric circuit therein and a separated portion and a freely movable metal member adapted to close the space in the circuit by gravity to energize the solenoid to operate the pivoted lever to release the power lever and throw it to an off power position and to remove away from the separated portion of the circuit by centrifugal action when the idler wheel is moving when the power lever is in on power position.

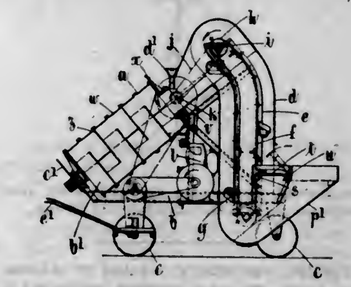
17,066. PIE PLATE. RICHARD M. SMYTHE, Boonton, N. J., assignor, by mesne assignments, to The Save-All Pie Plate Co., New York, N. Y., a Corporation of New York. Filed Jan. 7, 1928. Serial No. 245,223. Original No. 1,568,696, dated Jan. 5, 1926, Serial No. 655,238, filed Aug. 2, 1923. 2 Claims. (Cl. 53—6.)

1. A pie plate comprising a circular bottom, a downwardly and inwardly sloping side wall, an upwardly and outwardly inclined border flange or brim extending from the upper portion of said side wall and an upwardly and outwardly flaring rim at the outer edge of said flange or brim, said inclined flange or brim merging into said side



wall on a downwardly slanting convexly curved juncture zone, and said flange or brim and said rim being run together by means of a distinct fillet.

17,067. MIXING MACHINE. JOHN VER MEHR, London, England. Filed Dec. 28, 1927. Serial No. 243,109. Original No. 1,583,892, dated May 11, 1926, Serial No. 638,533, filed May 12, 1923. 7 Claims. (Cl. 83—73.)



1. A mixing machine comprising in combination a rotatable mixing drum, partitions dividing said drum into a number of separate intercommunicating mixing compartments, means for feeding gauged batches of the several ingredients to be mixed into said drum at predetermined intervals, means whereby the contents of one mixing compartment of said drum pass into the next adjacent compartment during rotation of said drum at said predetermined intervals, and means whereby batches of completely mixed material are discharged from said drum at said predetermined intervals, whereby a plurality of gauged batches of said ingredients are mixed in said drum in separated relation at the same time.

DESIGNS

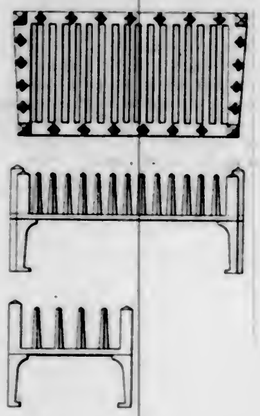
AUGUST 14, 1928.

75,996. ESCUTCHEON PLATE FOR RADIORECEIVERS OR THE LIKE. MILTON ALDEN, Springfield, Mass., assignor to Alden Manufacturing Company, Springfield, Mass., a Corporation of Massachusetts. Filed Dec. 3, 1926. Serial No. 19,917. Term of patent 7 years.



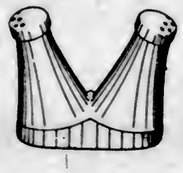
The ornamental design for an escutcheon plate for radioreceivers or the like substantially as shown.

75,997. FIREPLACE GRATE. ALLAN C. AXFORD, San Francisco, Calif. Filed Jan. 11, 1928. Serial No. 24,289. Term of patent 14 years.



The ornamental design for a fireplace grate as shown.

75,998. SALT AND PEPPER SHAKER. HARRY N. BANEY, Muncie, Ind. Filed Nov. 17, 1927. Serial No. 24,183. Term of patent 3½ years.



The ornamental design for a salt and pepper shaker as shown.

75,999. OPTICAL MOUNTING. FREDERICK R. BISHOP, North Attleboro, Mass. Filed Feb. 21, 1927. Serial No. 20,843. Term of patent 14 years.



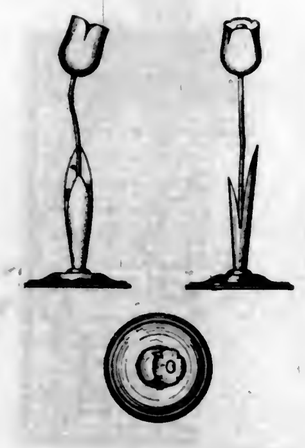
The ornamental design for an optical mounting, as shown.

76,000. TEXTILE FABRIC. JOHN S. BOYD, Williamstown, Mass., assignor, by mesne assignments, to Boyd Textile Corporation, Williamstown, Mass., a Corporation of Massachusetts. Filed Nov. 15, 1927. Serial No. 24,133. Term of patent 7 years.



The ornamental design for a textile fabric, as shown.

76,001. HATRACK. JOHN BROCH, Corona, N. Y. Filed June 11, 1928. Serial No. 27,079. Term of patent 3½ years.



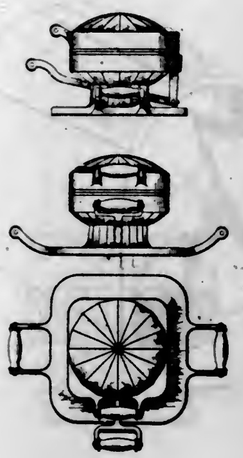
The ornamental design for a hatrack as shown.

76,002. AUTOMOBILE RADIATOR. CHARLES W. BURY, New York, N. Y. Filed Aug. 7, 1926. Serial No. 18,631. Term of patent 8½ years.



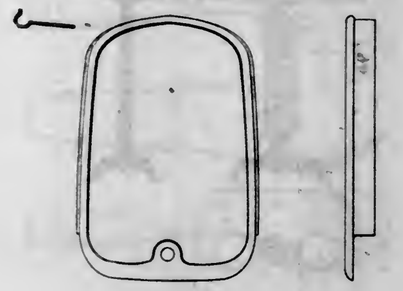
The ornamental design for an automobile radiator as shown.

76,003. ELECTRIC TOASTING DEVICE. CHARLES V. CHAMPION, Catlin, Ill. Filed Apr. 23, 1928. Serial No. 26,422. Term of patent 14 years.



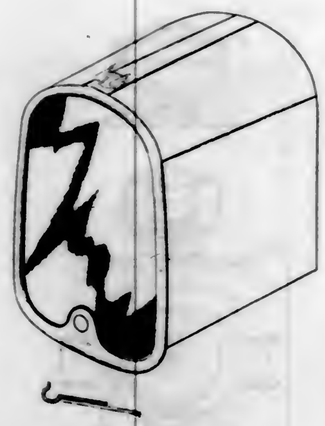
The ornamental design for an electric toasting device, substantially as shown.

76,004. RADIATOR SHELL. OLIVER H. CLARK, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Filed Nov. 21, 1927. Serial No. 24,219. Term of patent 14 years.



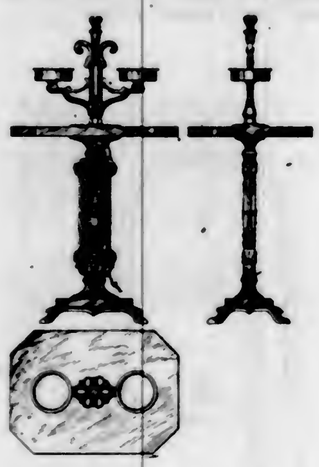
The ornamental design for a radiator shell, as shown.

76,005. COMBINED RADIATOR CASING AND HOOD. OLIVER H. CLARK, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Filed Nov. 28, 1927. Serial No. 24,316. Term of patent 14 years.



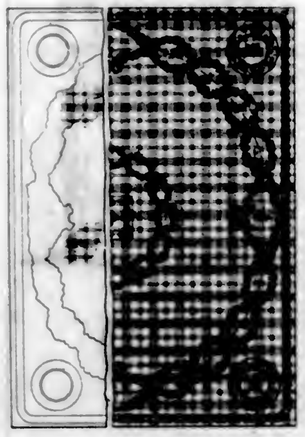
The ornamental design for a combined radiator casing and hood as shown.

76,006. SMOKING STAND. JOHN M. COLUCCI, Brooklyn, N. Y. Filed June 12, 1928. Serial No. 27,092. Term of patent 7 years.



The ornamental design for a smoking stand, as shown.

76,007. TABLE COVER OR SIMILAR ARTICLE. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Sept. 22, 1927. Serial No. 23,502. Term of patent 3½ years.



The ornamental design for a table cover or similar article, as shown and described.

76,008. GOBLET OR SIMILAR ARTICLE. JAMES DUNCAN DITHRIDGE, New York, N. Y., assignor to Bryce Brothers Company, Mount Pleasant, Pa., a Corporation of Pennsylvania. Filed May 4, 1928. Serial No. 26,562. Term of patent 14 years.



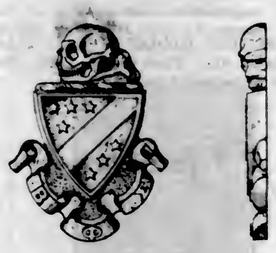
The ornamental design for a goblet or similar article, as shown.

76,009. DRAPERY-POLE END. AUGUST DLOUHY, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,217. Term of patent 3½ years.



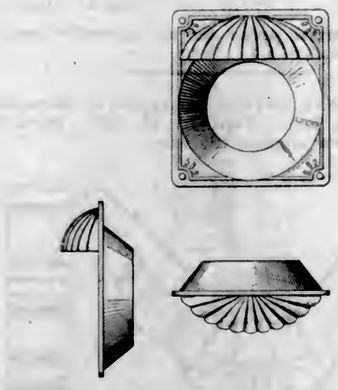
The ornamental design for a drapery pole end, as shown.

76,010. BADGE OR SIMILAR ARTICLE. CLEM D. EASLY, Elkhart, Ind. Filed Dec. 14, 1927. Serial No. 24,478. Term of patent 14 years.



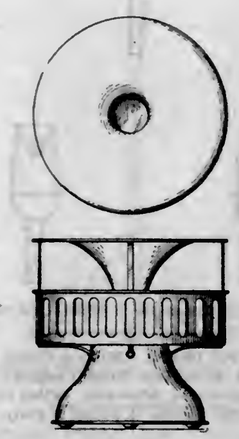
The ornamental design for a badge or similar article as shown.

76,011. DIAL FRAME. CHARLES D. FAGAN, Sharon, Pa., assignor to Sharpsville Boiler Works, Sharpsville, Pa., a Corporation of Pennsylvania. Filed July 5, 1927. Serial No. 22,663. Term of patent 14 years.



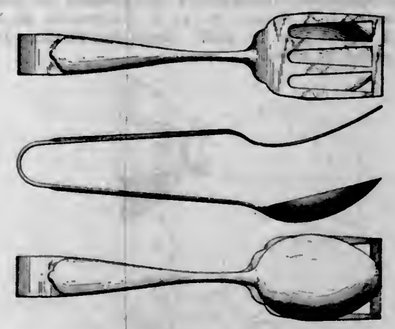
The ornamental design for a dial frame, substantially as shown and described.

76,012. ELECTRIC FAN. WILLIAM H. GINDER, Haddonfield, N. J., assignor to Electro Dental Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1928. Serial No. 26,086. Term of patent 14 years.



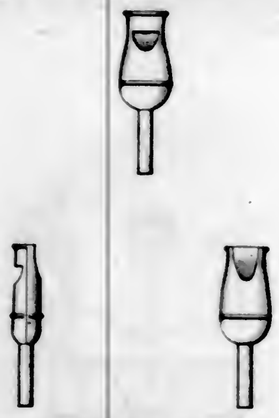
The ornamental design for an electric fan, substantially as shown.

76,013. COMBINED SPOON AND FORK OR SIMILAR ARTICLE. ALLAN A. GORDON, North Attleboro, Mass., assignor to Paye & Baker Manufacturing Co., North Attleboro, Mass. Filed Mar. 5, 1928. Serial No. 25,709. Term of patent 14 years.



The ornamental design for a combined spoon and fork or similar article, as shown.

76,014. WHISTLE. CONRAD GREIN, Evansville, Ind. Filed Feb. 3, 1928. Serial No. 25,144. Term of patent 14 years.



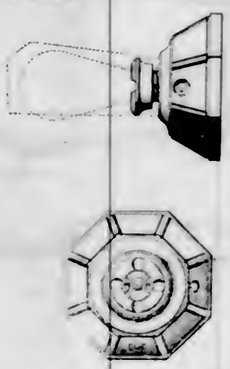
The ornamental design for a whistle, as shown.

76,015. KNITTED DRESS. MIRIAM GROSS, Milwaukee, Wis., assignor to Miriam Gross Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 10, 1927. Serial No. 23,707. Term of patent 7 years.



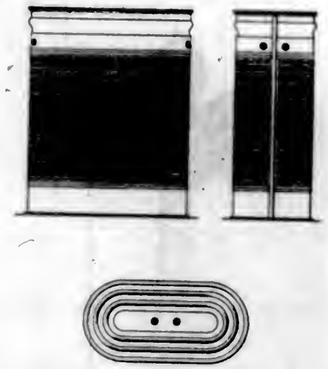
The ornamental design for a knitted dress as shown.

76,016. LIGHTING-FIXTURE WALL BRACKET. VAHAN HAGOPIAN, New York, N. Y., assignor to Pass & Seymour, Inc., Solvay, N. Y., a Corporation of New York. Filed Nov. 17, 1927. Serial No. 24,192. Term of patent 14 years.



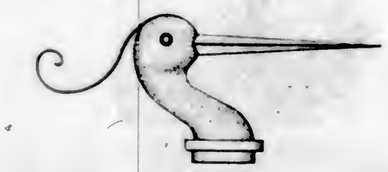
The ornamental design for a lighting fixture wall bracket substantially as shown.

76,017. VENTILATED RODENTPROOF CLOTHES HAMPER. MAX HALPERT, New York, N. Y. Filed May 18, 1928. Serial No. 26,731. Term of patent 7 years.



The ornamental design for a ventilated rodent proof clothes hamper as shown.

76,018. AUTOMOBILE RADIATOR CAP. ALBERT T. R. HARDY, Atlanta, Ga. Filed Oct. 5, 1927. Serial No. 23,640. Term of patent 7 years.



The ornamental design for an automobile radiator cap, as shown.

76,019. SIGNAL CASING. MATTHEW B. HITZEMANN, Hutchinson, Kans. Filed Oct. 19, 1927. Serial No. 23,794. Term of patent 3½ years.



The ornamental design for a signal casing, as shown.

76,020. BOOK END. ADA LUCILE JACK, Kansas City, Mo. Filed June 12, 1928. Serial No. 27,089. Term of patent 3½ years.



The ornamental design for a book end, as shown.

76,021. TEXTILE FABRIC. HARRY KATIMS and EMIL WEINER, New York, N. Y. Filed May 12, 1928. Serial No. 26,654. Term of patent 7 years.



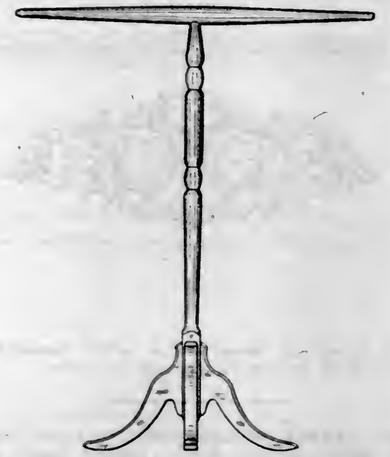
The ornamental design for a textile fabric as shown.

76,022. BOTTLE. PETER E. KEKENES, Washington, D. C. Filed Nov. 12, 1927. Serial No. 24,111. Term of patent 14 years.



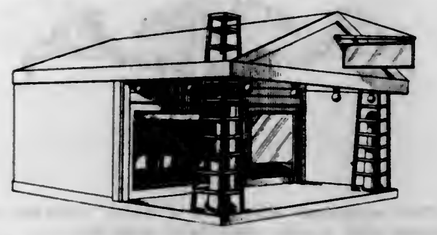
The ornamental design for a bottle substantially as shown.

76,023. PORTABLE NEWSPAPER RACK. HARRY L. KUCHINS, St. Louis, Mo. Filed May 14, 1927. Serial No. 21,992. Term of patent 3½ years.



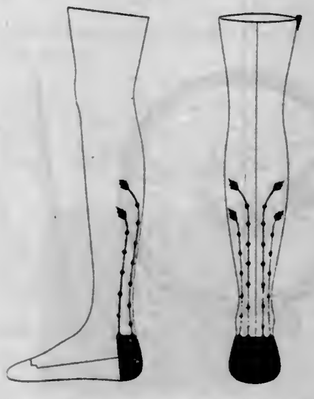
The ornamental design for a portable newspaper rack, as shown.

76,024. STORE FRONT OR SIMILAR ARTICLE. CICERO LA HATTE, Vicksburg, Miss. Filed Dec. 9, 1926. Serial No. 20,000. Term of patent 7 years.



The ornamental design for a store front or similar article as shown.

76,025. STOCKING. RUBY LEFI, New York, N. Y. Filed May 14, 1928. Serial No. 26,663. Term of patent 14 years.



The ornamental design for a stocking, substantially as shown and described.

76,026. CENTER ORNAMENT FOR DRAPERY POLES OR RODS. GUNNAR MADVIG, Oakland, Calif. Filed Apr. 23, 1928. Serial No. 26,430. Term of patent 3½ years.



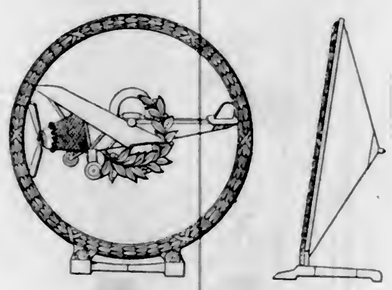
The ornamental design for a center ornament for drapery poles or rods substantially as shown.

76,027. CENTER ORNAMENT FOR DRAPERY POLES OR RODS. GUNNAR MADVIG, Oakland, Calif. Filed Apr. 23, 1928. Serial No. 26,431. Term of patent 3½ years.



The ornamental design for a center ornament for drapery poles or rods substantially as shown.

76,028. LOUD SPEAKER. JACOB M. MARKS, New York, N. Y. Filed Apr. 5, 1928. Serial No. 26,138. Term of patent 3½ years.



The ornamental design for a loud speaker, as shown.

76,029. TEXTILE FABRIC. WILLIAM H. MAYER, Jr., New York, N. Y. Filed May 5, 1928. Serial No. 26,586. Term of patent 7 years.



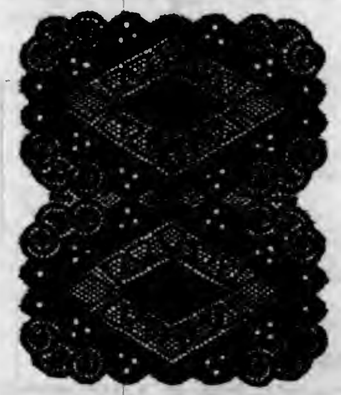
The ornamental design for a textile fabric as shown.

76,030. TERMINAL CONNECTER. ARTHUR B. MCCALL, Springfield, Ill. Filed Nov. 3, 1926. Serial No. 19,598. Term of patent 3½ years.



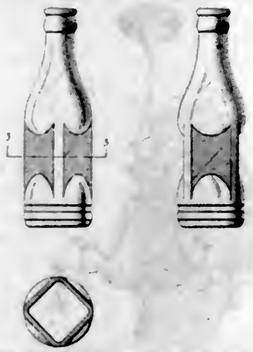
The ornamental design for a terminal connecter, as shown.

76,031. LACE MEDALLION. WALTER MEADS, Hightstown, N. J., assignor to Acme Lace Works, Inc., Hightstown, N. J., a Corporation of New Jersey. Filed Apr. 9, 1928. Serial No. 26,202. Term of patent 3½ years.



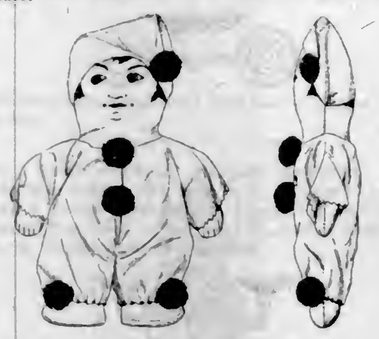
The ornamental design for a lace medallion, as shown.

76,032. BOTTLE. FRANK R. MILLER, Evansville, Ind., assignor to The Graham Glass Company, Evansville, Ind., a Corporation of Indiana. Filed Nov. 9, 1927. Serial No. 24,046. Term of patent 14 years.



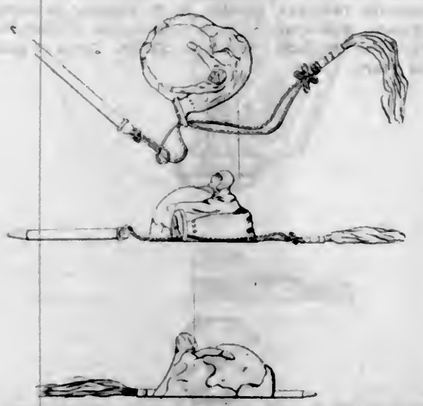
The ornamental design for a bottle substantially as shown.

76,033. DOLL. SARAH A. MILLIKEN, Oakmont, Pa. Filed Feb. 29, 1928. Serial No. 25,620. Term of patent 7 years.



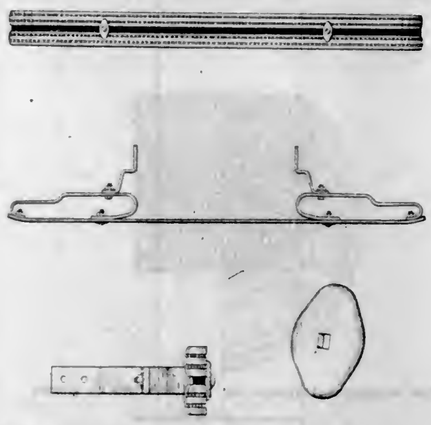
The ornamental design for a doll, as shown.

76,034. PENCIL HOLDER. FRANCIS L. MORGAN, Burlingame, Calif. Filed July 20, 1927. Serial No. 22,820. Term of patent 3½ years.



The ornamental design for a pencil holder, as shown.

76,035. BUMPER. ROBERT W. NILSSON, Toledo, Ohio, assignor to The Mather Spring Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 12, 1927. Serial No. 23,393. Term of patent 7 years.



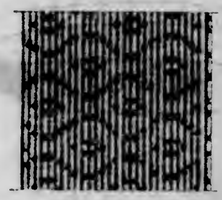
The ornamental design for a bumper, as shown.

73,036. HOLDER FOR WATCH AND CLOCK MOVEMENTS. RUFUS MELVIN OVERLANDER, Jr., and EVARTS WEBSTER OVERLANDER, New York, N. Y. Filed May 10, 1928. Serial No. 26,626. Term of patent 14 years.



The ornamental design for a holder for watch and clock movements, as shown.

76,037. PILE FABRIC. JUDITH MARGARET PAGE, Quincy, Mass., assignor to Merrimack Manufacturing Company, Lowell, Mass., a Corporation of Massachusetts. Filed Nov. 22, 1926. Serial No. 19,807. Term of patent 3½ years.



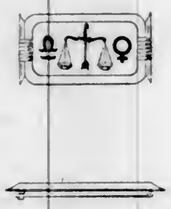
The ornamental design for a pile fabric as shown.

76,038. PILE FABRIC. JUDITH MARGARET PAGE, Quincy, Mass., assignor to Merrimack Manufacturing Company, Lowell, Mass., a Corporation of Massachusetts. Filed Dec. 8, 1926. Serial No. 19,965. Term of patent 3½ years.



The ornamental design for a pile fabric as shown.

76,039. BROOCH OR SIMILAR ARTICLE. ORESTE PENNINO, New York, N. Y. Filed Feb. 2, 1928. Serial No. 25,135. Term of patent 7 years.



The ornamental design for a brooch or similar article as shown and described.

76,040. BRACELET OR SIMILAR ARTICLE. ORESTE PENNINO, New York, N. Y. Filed Feb. 6, 1928. Serial Nol. 25,228. Term of patent 7 years.



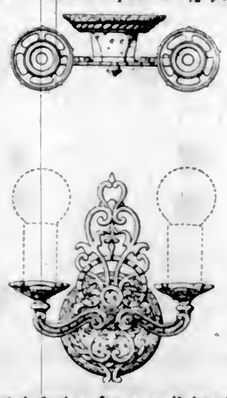
The ornamental design for a bracelet or similar article as shown and described.

76,041. CHANDELIER. THORVALD J. PETERSEN, New York, N. Y., assignor to The Globe Lighting Fixture Manufacturing Company, Brooklyn, N. Y., a Copartnership. Filed May 21, 1928. Serial No. 26,792. Term of patent 3½ years.



The ornamental design for a chandelier, as shown.

76,042. WALL BRACKET FOR LIGHTING FIXTURES. THORVALD J. PETERSEN, New York, N. Y., assignor to The Globe Lighting Fixture Manufacturing Company, Brooklyn, N. Y., a Copartnership. Filed May 21, 1928. Serial No. 26,793. Term of patent 3½ years.



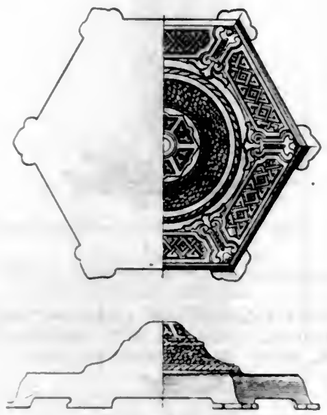
The ornamental design for a wall bracket for lighting fixtures, as shown.

76,043. BOTTLE OR SIMILAR CONTAINER. CHARLES LEONARD PFEIFFER, Bayside, N. Y., assignor to Richard Hudnut, New York, N. Y., a Corporation of New York. Filed Feb. 21, 1928. Serial No. 25,528. Term of patent 14 years.



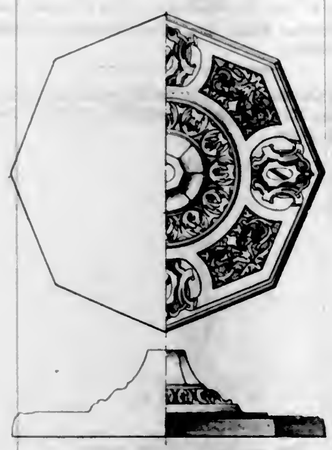
The ornamental design for a bottle or similar container as shown.

76,044. LAMP BASE OR SIMILAR ARTICLE. FREDERICK MAX PORITZ, New York, N. Y., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y., a Corporation of New York. Filed June 13, 1928. Serial No. 27,103. Term of patent 3½ years.



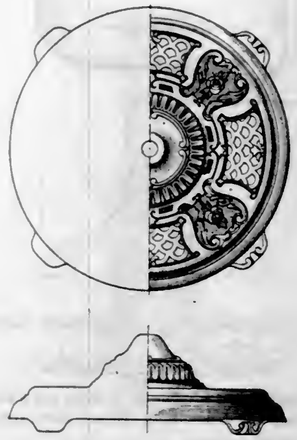
The ornamental design for a lamp base or similar article, as shown.

76,045. LAMP BASE OR SIMILAR ARTICLE. FREDERICK MAX PORITZ, New York, N. Y., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y., a Corporation of New York. Filed June 13, 1928. Serial No. 27,104. Term of patent 3½ years.



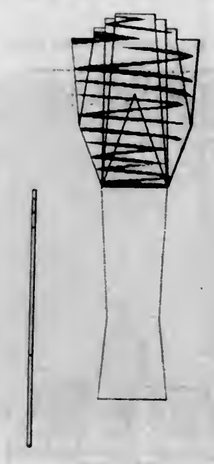
The ornamental design for a lamp base or similar article, as shown.

76,046. LAMP BASE OR SIMILAR ARTICLE. FREDERICK MAX PORITZ, New York, N. Y., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y., a Corporation of New York. Filed June 13, 1928. Serial No. 27,105. Term of patent 3½ years.



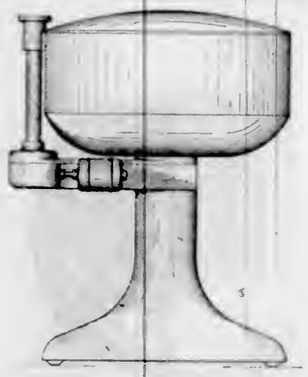
The ornamental design for a lamp base or similar article, as shown.

76,047. HAND MIRROR OR SIMILAR ARTICLE. LOUIS W. RICE, New York, N. Y., assignor to Bernard Rice's Sons, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 23, 1928. Serial No. 25,982. Term of patent 7 years.



The ornamental design for a hand mirror or similar article substantially as shown and described.

76,048. CASING FOR A CLOTHES-WASHING MACHINE. CHARLES ROBERTS, New York, N. Y. Filed Apr. 9, 1928. Serial No. 26,206. Term of patent 14 years.



The ornamental design for a casing for a clothes washing machine, as shown.

76,049. TRIMMING BRAID. A. WALDO ROCKWOOD, Winchester, Mass. Filed Dec. 9, 1926. Serial No. 20,257. Term of patent 7 years.



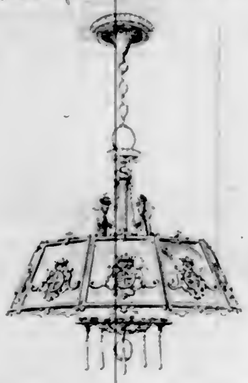
The ornamental design for trimming braid, as shown.

76,050. TRIMMING BRAID. A. WALDO ROCKWOOD, Winchester, Mass. Filed Dec. 9, 1926. Serial No. 20,258. Term of patent 7 years.



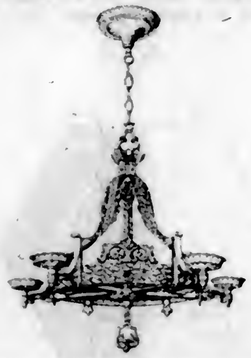
The ornamental design for trimming braid, as shown.

76,051. CHANDELIER. ISIDOR ROSENBLATT, Brooklyn, N. Y. Filed May 21, 1928. Serial No. 26,787. Term of patent 3½ years.



The ornamental design for a chandelier, as shown.

76,052. CHANDELIER. ISIDOR ROSENBLATT, Brooklyn, N. Y. Filed May 21, 1928. Serial No. 26,788. Term of patent 3½ years.



The ornamental design for a chandelier, as shown.

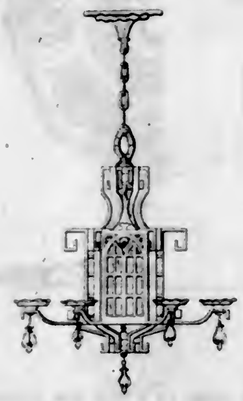
76,053. WALL BRACKET FOR LIGHTING FIXTURES. ISIDOR ROSENBLATT, Brooklyn, N. Y. Filed May 21, 1928. Serial No. 26,789. Term of patent 3½ years.





The ornamental design for a wall bracket for lighting fixtures, as shown.

76,054. CHANDELIER. ISIDOR ROSENBLATT, Brooklyn, N. Y. Filed May 21, 1928. Serial No. 26,790. Term of patent 3½ years.



The ornamental design for a chandelier, as shown.

76,055. RING. ABRAHAM SAGER, Chicago, Ill. Filed July 16, 1927. Serial No. 22,788. Term of patent 3½ years.



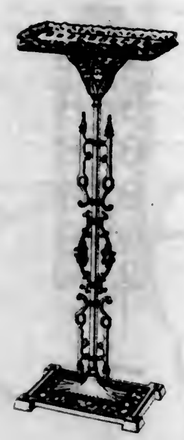
The ornamental design for a ring, as shown.

76,056. TAG OR SIMILAR ARTICLE. JACOB H. SCHAEFFER, Brooklyn, N. Y. Filed Mar. 3, 1928. Serial No. 25,661. Term of patent 3½ years.



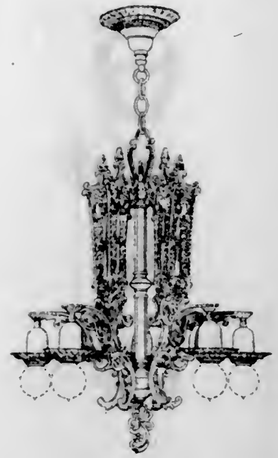
The ornamental design for a tag or similar article, as shown.

76,057. AQUARIUM STAND. HARRY SCHEINER, JACOB SILBERHARTZ, and PHILIP SILBERHARTZ, Brooklyn, N. Y. Filed June 11, 1927. Serial No. 22,409. Term of patent 7 years.



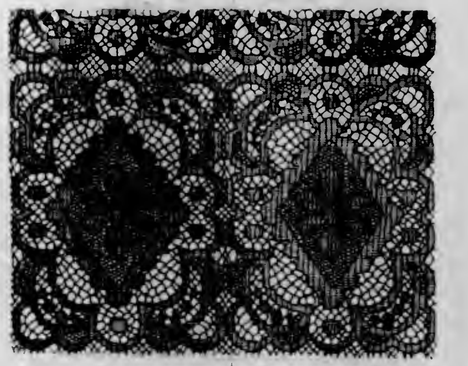
The ornamental design for an aquarium stand as shown.

76,058. LIGHTING FIXTURE. HARRY SCHREIBMAN and LOUIS GOLDBERG, Brooklyn, N. Y. Filed June 9, 1928. Serial No. 27,069. Term of patent 3½ years.



The ornamental design for a lighting fixture, as shown.

76,059. LACE. HANS SEEL, Hopkinton, R. I. Filed Apr. 13, 1928. Serial No. 26,312. Term of patent 3½ years.



The ornamental design for lace as shown.

76,060. LIGHTING-FIXTURE STRAP OR ARTICLE OF ANALOGOUS NATURE. ALFRED P. SEIDELL, Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co., a Corporation of New Jersey. Filed June 8, 1928. Serial No. 27,054. Term of patent 7 years.



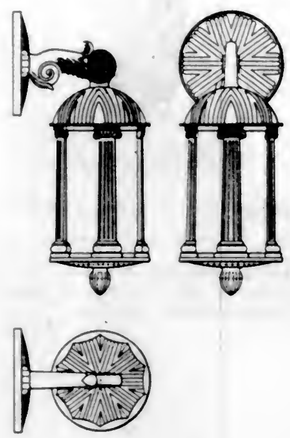
The ornamental design for a lighting fixture strap or article of analogous nature substantially as shown.

76,061. LIGHTING-FIXTURE PLATE OR ARTICLE OF ANALOGOUS NATURE. ALFRED P. SEIDELL, Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co., a Corporation of New Jersey. Filed June 8, 1928. Serial No. 27,056. Term of patent 7 years.



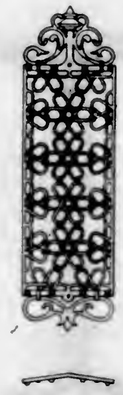
The ornamental design for a lighting fixture plate or article of analogous nature substantially as shown and described.

76,062. LANTERN ELECTRIC-LIGHT FIXTURE. JAMES SHORTT, Los Angeles, Calif., assignor to Alloy Metal Products Co., Los Angeles, Calif., a Copartnership composed of James Shortt and Claude E. Chapman. Filed May 9, 1928. Serial No. 26,613. Term of patent 3½ years.



The ornamental design for a lantern electric-light fixture, as shown.

76,063. PANEL FOR ELECTRIC-LIGHT FIXTURES. JAMES SHORTT, Los Angeles, Calif., assignor to Alloy Metal Products Co., Los Angeles, Calif., a Copartnership composed of James Shortt and Claude E. Chapman. Filed May 9, 1928. Serial No. 26,614. Term of patent 3½ years.



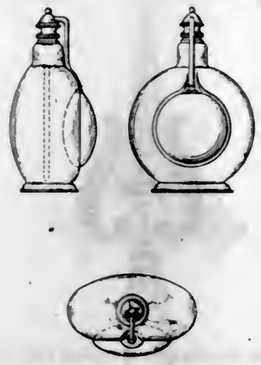
The ornamental design for a panel for electric light fixtures, as shown.

76,064. LAMP BASE OR ARTICLE OF ANALOGOUS NATURE. PHILIP SILBERHARTZ, Brooklyn, N. Y., assignor to Majestic Lamp Works, New York, N. Y., a Partnership consisting of said Silberhartz, Jacob Silberhartz, and Harry Scheiner, Brooklyn, N. Y. Filed June 9, 1928. Serial No. 27,065. Term of patent 3½ years.



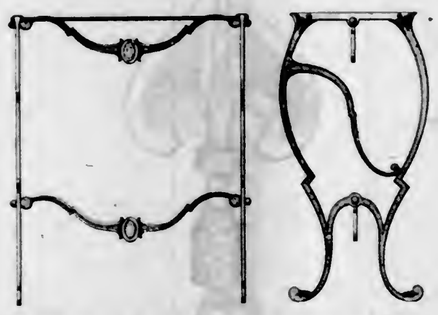
The ornamental design for a lamp base or article of analogous nature substantially as shown.

76,065. ATOMIZER OR SIMILAR ARTICLE. FULTON W. SMITH, Hillside, N. J., assignor to Colgate & Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 14, 1927. Serial No. 24,477. Term of patent 14 years.



The ornamental design for an atomizer or similar article, substantially as shown.

76,066. DISPLAY STAND. JOSEPH SOBEL, Brooklyn, N. Y., assignor to Genuine Bronze Fixture Co. Inc., Brooklyn, N. Y., a Corporation of New York. Filed Mar. 21, 1928. Serial No. 25,938. Term of patent 7 years.



The ornamental design for a display stand, as shown.

76,067. ESCUTCHEON PLATE. WILLIAM SPARKS, Jackson, Mich., assignor to The Sparks-Withington Company, Jackson, Mich., a Corporation of Ohio. Filed Sept. 19, 1927. Serial No. 23,466. Term of patent 7 years.



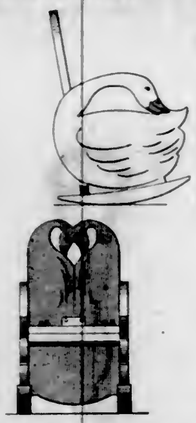
The ornamental design for an escutcheon plate substantially as shown.

76,068. ESCUTCHEON PLATE. WILLIAM SPARKS, Jackson, Mich., assignor to The Sparks-Withington Company, Jackson, Mich., a Corporation of Ohio. Filed Sept. 19, 1927. Serial No. 23,467. Term of patent 7 years.



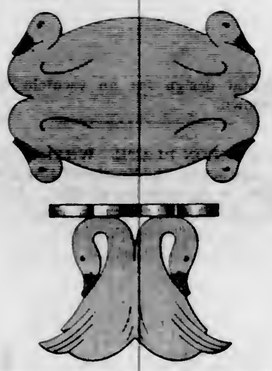
The ornamental design for an escutcheon plate substantially as shown.

76,069. NURSERY CHAIR. MARGARET M. SUTTON, Baxter Springs, Kans. Filed Apr. 25, 1928. Serial No. 26,452. Term of patent 7 years.



The ornamental design for a nursery chair as shown.

76,070. TABLE. MARGARET M. SUTTON, Baxter Springs, Kans. Filed Apr. 25, 1928. Serial No. 26,453. Term of patent 7 years.



The ornamental design for a table, as shown.

76,071. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,220. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,072. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,222. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,073. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,225. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,074. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,226. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,075. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,227. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,076. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,228. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,077. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,229. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,078. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,230. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,079. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,231. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,080. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,232. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,081. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,233. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,082. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,234. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,083. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,236. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,084. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,237. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,085. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,239. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,086. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,240. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,087. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,241. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,088. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,242. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,089. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,243. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,090. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,244. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,091. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,245. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,092. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,246. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,093. DRAPERY-POLE END. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,249. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

76,094. DRAPERY-POLE CENTER. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,254. Term of patent 3½ years.



The ornamental design for a drapery pole center, as shown.

76,095. DRAPERY-POLE CENTER. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,255. Term of patent 3½ years.



The ornamental design for a drapery pole center, as shown.

76,096. DRAPERY-POLE BRACKET. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,257. Term of patent 3½ years.



The ornamental design for a drapery pole bracket, as shown.

76,097. DRAPERY-POLE BRACKET. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,258. Term of patent 3½ years.



The ornamental design for a drapery pole bracket, as shown.

76,098. DRAPERY-POLE BRACKET. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,259. Term of patent 3½ years.



The ornamental design for a drapery pole bracket, as shown.

76,099. DRAPERY-POLE BRACKET. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,260. Term of patent 3½ years.



The ornamental design for a drapery pole bracket, as shown.

76,100. DRAPERY-POLE BRACKET. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,261. Term of patent 3½ years.



The ornamental design for a drapery pole bracket, as shown.

76,101. DRAPERY-POLE BRACKET. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,262. Term of patent 3½ years.



The ornamental design for a drapery pole bracket, as shown.

76,102. DRAPERY-POLE BRACKET. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,263. Term of patent 3½ years.



The ornamental design for a drapery pole bracket, as shown.

76,103. DRAPERY-POLE BRACKET. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,264. Term of patent 3½ years.



The ornamental design for a drapery pole bracket, as shown.

76,104. DRAPERY-POLE BRACKET. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,265. Term of patent 3½ years.



The ornamental design for a drapery pole bracket, as shown.

76,105. DRAPERY-POLE BRACKET. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,267. Term of patent 3½ years.



The ornamental design for a drapery pole bracket, as shown.

76,106. DRAPERY-POLE BRACKET. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,268. Term of patent 3½ years.



The ornamental design for a drapery pole bracket, as shown.

76,107. DRAPERY-POLE BRACKET. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,269. Term of patent 3½ years.



The ornamental design for a drapery pole bracket, as shown.

76,108. DRAPERY-POLE BRACKET. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,270. Term of patent 3½ years.



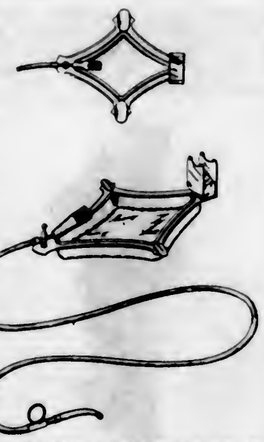
The ornamental design for a drapery pole bracket, as shown.

76,109. DRAPERY-POLE BRACKET. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,271. Term of patent 3½ years.



The ornamental design for a drapery pole bracket, as shown.

76,110. SMOKING SET. SAMUEL YOUNG, San Francisco, Calif. Filed May 18, 1928. Serial No. 26,734. Term of patent 7 years.

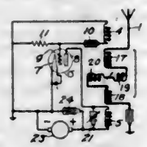


The ornamental design for a smoking set substantially as shown.

PATENTS

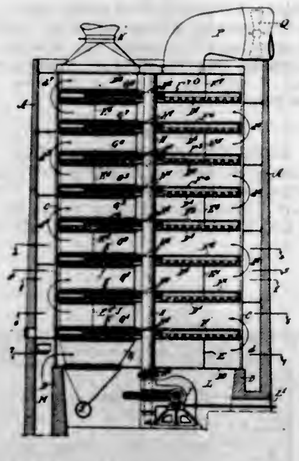
GRANTED AUGUST 14, 1928.

1,680,273. GENERATING AND TRANSMITTING SYSTEM. MILTON K. AKERS, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 31, 1919. Serial No. 348,555. 9 Claims. (Cl. 250—17.)



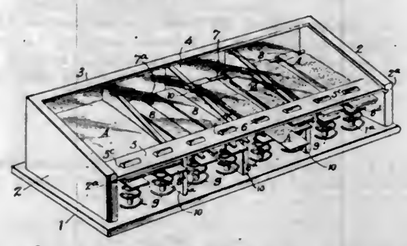
1. An oscillation generating discharge device comprising a frequency-determining circuit, inductance means in said frequency-determining circuit having four groups of turns, an input coupling coil for said device, and an output coupling coil for said device, said coils being in fixed relation to two of said groups of turns and in variable relation to two other of said groups of turns.

1,680,274. DRYING APPARATUS. FRANK L. ALLEN, Montclair, N. J., and ARTHUR D. FLOWER, Wilmington, Del., assignors to Edge Moor Iron Company, Edge Moor, Del. Filed Mar. 7, 1927, Serial No. 173,373, and in Cuba Mar. 2, 1926. 6 Claims. (Cl. 34—23.)



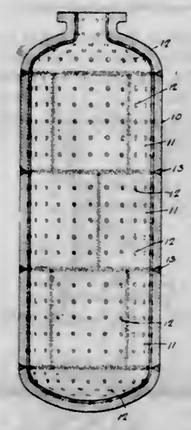
1. Drying apparatus comprising a series of cylindrical drying chambers arranged one above the other and separated by spaces interconnected to form a flue for heating gases, long and radially arranged delivery conduits connecting the drying chambers, means for sweeping the material to be dried over the floor of each chamber, a heating gas flue comprising as a part thereof the spaces separating the drying chambers and vent openings for steam and gas leading from the drying chambers into the heating flue.

1,680,275. DISPLAY CASE. MAURICE ALBAUGH, Quincy, Ohio. Filed May 25, 1927. Serial No. 194,012. 15 Claims. (Cl. 312—53.)



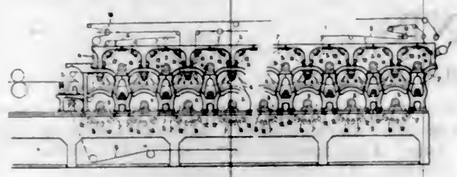
1. In combination, a casing open at the front and top; a transparent closure for the top; a strip at the front edge of the closure, said strip having a series of aligned openings therethrough; rollers in said openings extending above and below the strip; and spring pressed followers within the casing disposed below the rollers and adapted to normally contact therewith.

1,680,276. OIL-REFINING STILL. ORRIN E. ANDRUS and SUNE HERMANSON, Milwaukee, Wis., assignors to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Oct. 29, 1927. Serial No. 229,780. 17 Claims. (Cl. 219—10.)



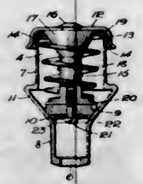
1. The method of lining vessels, which comprises the operations of securing a liner within the vessel by disposing a thin imperforate sheet of corrosion resisting alloy against the inner wall of the body of the vessel, and bonding the said liner to the said body by electrical welding at frequent and contiguous points through the liner without changing the nature of the liner, to thereby prevent distortion of the liner from its position in the vessel by temperature differences and provide for an increased transference of heat between the liner and the body of the vessel.

1,680,277. PAPER-MAKING MACHINE. ARTHUR BELLEMARE, Three Rivers, Quebec, Canada. Filed Aug. 26, 1927, Serial No. 215,680, and in Canada Oct. 19, 1926. 10 Claims. (Cl. 34—48.)



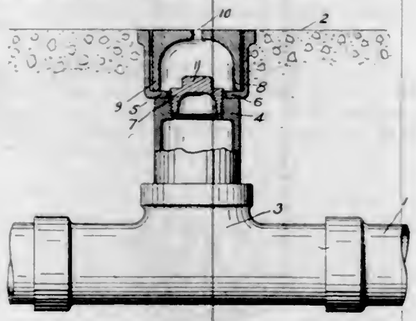
1. In a paper making machine, the combination of a rotary dryer roll having a grooved periphery, a rope adapted to run in said groove, and means adapted to receive said rope when it becomes displaced from the groove, substantially as described.

1,680,278. LUBRICATOR. FREDERICK C. BLANCHARD, Detroit, Mich. Filed Mar. 26, 1923. Serial No. 627,592. 12 Claims. (Cl. 184—87.)



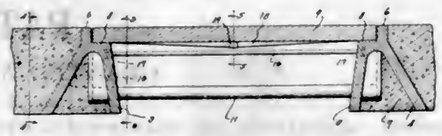
1. A lubricator presenting a reservoir having an inlet and an outlet, a valve seat, an outlet valve comprising a pervious disk the latter contacting with said seat, a cover for said inlet, and a connection between said valve and said cover to cause opening movement of said cover to be accompanied by opening movement of said valve.

1,680,279. COVER FOR CONDUIT FITTINGS. EDWARD W. N. BOOSEY, Detroit, Mich. Filed May 15, 1925. Serial No. 30,436. 3 Claims. (Cl. 137—13.)



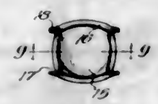
1. A fitting for drainage conduits comprising a tubular member adapted for connection with a conduit at one end and having a threaded aperture at the opposite end, a threaded plug for closing the said aperture, and a cover member including an open ended cup shaped member having a central aperture in its bottom greater in diameter than the ping and through which the plug extends, and a second cupped member having an open end seating in the bottom of the cover member about the said plug and the opposite end practically flush with the open end of the cover member, the opposite end of the second member having an aperture of small diameter.

1,680,280. TRENCH COVER AND FRAME. EDWARD W. N. BOOSEY, Detroit, Mich. Filed June 26, 1925. Serial No. 39,795. 3 Claims. (Cl. 72—0.5.)



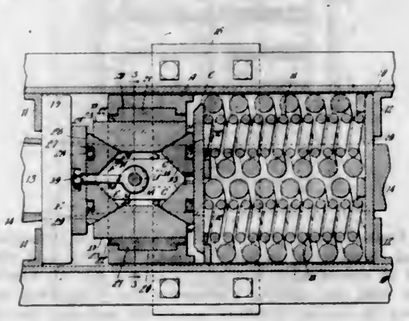
1. In trench construction, frame members each adapted to form a side of the trench and to be embedded in concrete each frame having an inner closed flange and an outer notched flange at an angle one to the other, the frames having the upper edges thereof practically flush with the concrete surface and formed with a longitudinal shoulder, the said inner closed flanges each having a series of recesses extending to adjacent the bottom of the flanges and opening through the outer face thereof, a series of hanger bars in the recesses extending transversely of the trench and providing spacers, and bolts extending between the frame members adjacent the upper edge tying the parts together.

1,680,281. METHOD OF MAKING WATCHCASES. GEORGE W. BOWEN, Elgin, Ill., assignor to Illinois Watch Case Company, Elgin, Ill., a Corporation of Illinois. Filed Aug. 25, 1927. Serial No. 215,358. 4 Claims. (Cl. 29—179.)



2. The method of producing a watch case which consists in blanking a piece of sheet metal, in bending the edges thereof to form an upstanding flange having return bends at four points to provide lugs, and in pressing down and inwardly upon the flange to bend the same and fold one wall of each lug over upon the other, substantially as described.

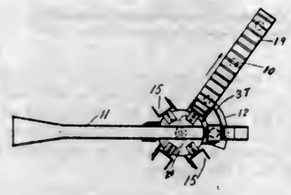
1,680,282. FRICTION SHOCK-ABSORBING MECHANISM. ARILD M. BRENNE, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Dec. 22, 1922. Serial No. 608,403. Renewed Feb. 2, 1927. 7 Claims. (Cl. 213—34.)



1. In a friction shock absorbing mechanism, the combination with a friction shell having opposed interior friction surfaces; of a spring resistance; friction shoes

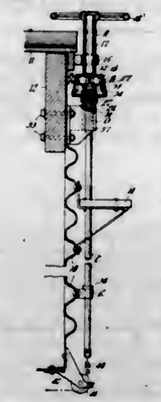
cooperable with said shell surfaces, said shoes having oppositely arranged wedge faces at the ends thereof extending at a relatively keen angle with respect to the axis of the mechanism; front and rear sets of wedge elements cooperable with said wedge faces of the shoes; and centrally disposed means interposed between and cooperable with said front and rear sets of wedge elements, said means and wedge elements having engaging wedge faces extending at a relatively blunt releasing angle with respect to the axis of the mechanism.

1,680,283. APPARATUS FOR SETTING UP AND TRANSFERRING BOTTLES AND OTHER ARTICLES. ALBERT N. CRAMER, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 31, 1924. Serial No. 703,019. 16 Claims. (Cl. 198—22.)



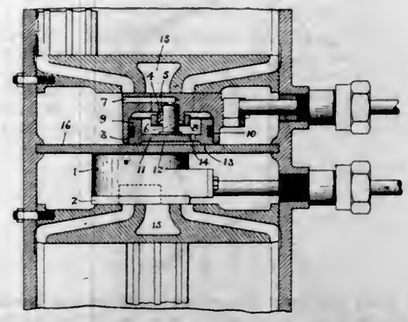
4. The combination of a stationary platform, an inclined chute down which articles slide by gravity in a cumbent position, means on said platform adjacent the discharge end of the chute for setting the articles one by one in an upright position on said platform, a horizontally traveling conveyor, transfer devices, and means to bring said transfer devices successively into operation to receive the articles directly from the chute and shift them from the platform onto the conveyor.

1,680,284. HAND BRAKE. CHARLES E. DATH, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Nov. 23, 1923. Serial No. 676,468. 8 Claims. (Cl. 74—40.)



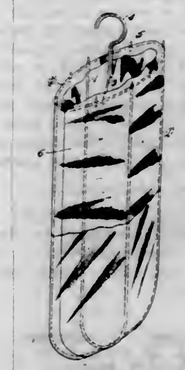
1. In a hand brake, the combination with a brake mechanism proper; of operating means therefor; and a releasable connection between said mechanism and means comprising a worm and a rotatable split nut, the split portions of said nut being bodily separable and slidably connected to said operating means.

1,680,285. SLIDE VALVE FOR STEAM ENGINES. JOHN DOCKINOS, Hamilton, Ontario, Canada. Filed July 10, 1926. Serial No. 121,628. 1 Claim. (Cl. 121—184.)



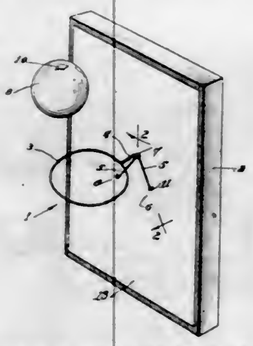
A slide valve for steam engines comprising the combination with a steam chest and cylinder having inlet and exhaust ports, of a valve body in said steam chest co-operating with said ports and having a shallow cylindrical bore in its outer face, a boss threaded externally and extending centrally of said shallow bore from the bottom thereof, a cylindrical bore of small diameter in said boss having a piston therein extending beyond the end of the boss into the shallow cylindrical bore, a packing nut threaded on the end of said boss and sealing said piston, a passage in the valve body connecting the small cylindrical bore with the interior of the steam chest, a piston in said shallow cylindrical bore having a depressed outer head and adapted to be engaged and forced outwardly by the former piston, steam passages in said valve body at either side of said central boss connecting the inner end of the shallow cylindrical bore with the exhaust port, and a vent in the depressed head of the piston leading to the interior of the shallow cylindrical bore.

1,680,286. FRAME FOR SAUSAGE CASINGS. RALPH ETTLINGER, Kansas City, Mo. Filed Mar. 26, 1928. Serial No. 264,946. 3 Claims. (Cl. 17—45.)



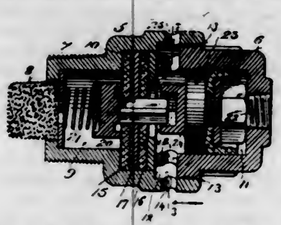
1. A frame for coating sausage casings, comprising longitudinal spreaders for extending the casing during the coating operation, and means along the upper edge of the frame for holding the casing against displacement on the frame.

1,680,287. GAME APPARATUS. KEITH J. EVANS, Chicago, Ill. Filed Feb. 21, 1927. Serial No. 169,794. 2 Claims. (Cl. 273—1.)



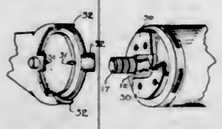
1. Game apparatus comprising a shallow box having a substantially flat bottom wall, a wire loop having a radially extending neck and diverging leg portions at the outer end of the neck, said loop when in use having its neck portion bent at an angle of ninety degrees at the outermost end thereof, means for securing the diverging legs securely to the bottom wall of the box, and an inflated balloon for projection through the loop, said box being of sufficient size to confine all of the parts of the apparatus, including the wire loop, prior to the bending of its neck as described.

1,680,288. AUTOMATIC DRAIN VALVE. ALBERT GOTTSCHALK, New York, N. Y. Filed Aug. 10, 1923. Serial No. 656,747. 8 Claims. (Cl. 303—88.)



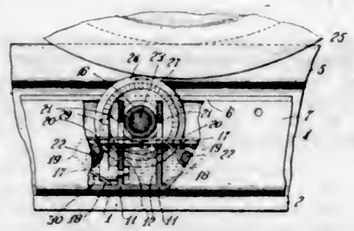
5. A drain valve structure comprising a body having internal chambers adapted, respectively, to communicate with a reservoir and a source of control pressure, said body having an outlet port, oppositely facing valve seats intermediate said chambers, valves disposed, respectively, in said chambers and cooperating with said valve seats, and means arranged in one of said chambers, to be operated by the control pressure supply for seating one of said valves, the seating of said valve operating to unseat the other valve after the lapse of an interval of time during which both valves are unseated.

1,680,289. HAIR-CLIPPING DEVICE. CLEMENT H. GRAEFF, Lakewood, Ohio, assignor to The Auto Tool & Gauge Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 16, 1924. Serial No. 732,367. 5 Claims. (Cl. 30—1.)



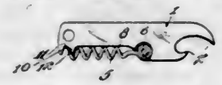
1. In a hair cutting device, the combination with a frame, of spaced flexible members carried thereby, each of said members having a locking shoulder thereon, a head having a cutting element mounted thereon, said head having means cooperating with the shoulders on said members for locking it to said frame.

1,680,290. WHEEL-FLANGE OILER. PERRY H. HAMILTON, Baltimore, Md., assignor to Maintenance Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 17, 1926. Serial No. 155,418. 14 Claims. (Cl. 184—3.)



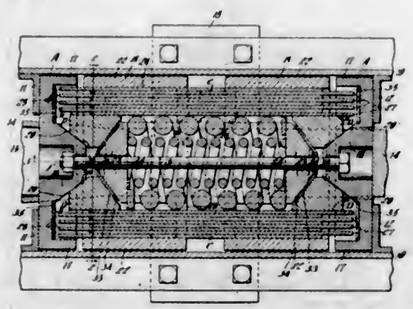
1. A wheel flange oiler, comprising a receptacle for oil adapted to be mounted adjacent a rail, and rotatable means yieldingly mounted in the receptacle and projecting upwardly into the path of the wheel flange, whereby it will be depressed and rotated by the flange and throw oil upwardly onto the flange.

1,680,291. CORKSCREW. THOMAS HARDING, Newark, N. J., assignor to J. L. Sommer Manufacturing Co., a Corporation of New Jersey. Filed Feb. 20, 1926. Serial No. 89,629. 4 Claims. (Cl. 65—48.)



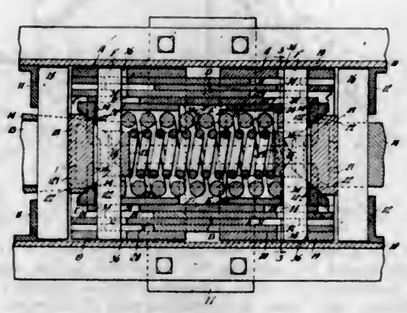
1. A corkscrew comprising a body, a corkscrew bit pivotally connected at one end to said body upon an axis transverse to said body to swing alongside of and away from the body, said body having a surface parallel to said axis transversely of the plane of swinging of the bit and eccentric to said axis in said plane of swinging of the bit which surface is engaged by the side of the pointed end of the bit as said bit is swung alongside of the body to frictionally hold said bit in closed position.

1,680,292. FRICTION SHOCK-ABSORBING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Sept. 26, 1923. Serial No. 664,868. Renewed Feb. 16, 1928. 13 Claims. (Cl. 213—33.)



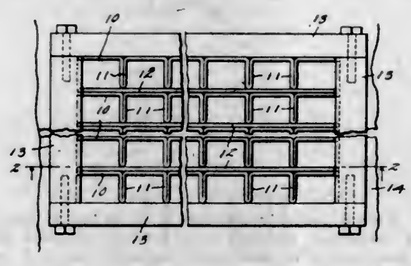
1. In a friction shock absorbing mechanism, the combination with front and rear main followers movable toward and away from each other; of front and rear spring follower shells; a spring resistance co-acting with said shells; a longitudinally arranged wedge pressure creating means coacting with said followers and shells; and longitudinally arranged friction plates adapted to be moved relatively during relative movement of said main followers, said plates being divided into two groups on opposite sides of said wedge pressure creating means.

1,680,293. FRICTION SHOCK-ABSORBING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed July 10, 1924, Serial No. 725,107. Renewed Feb. 6, 1928. 10 Claims. (Cl. 213—33.)



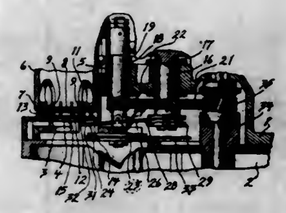
1. In a friction shock absorbing mechanism, the combination with front and rear followers, relatively movable toward and away from each other; front and rear friction casings, said casings being also relatively movable toward and away from each other, said casings and follows having limited relative movement; a plurality of longitudinally disposed, reatively movable friction plates within said casings engageable with said followers and adapted to be moved by the latter, said plates being divided into two groups at opposite sides of the mechanism the plates of said groups being intercalated; a lateral wedge pressure creating means at each end of the mechanism; tapered friction elements interposed between each group of plates and the lateral wedge pressure creating means; and a main spring resistance.

1,680,294. METAL CANDY-MOLDING DEVICE. KARL W. HOLZAPFEL, Larned, Kans. Filed Dec. 21, 1923. Serial No. 682,043. 1 Claim. (Cl. 107—19.)



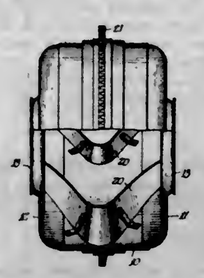
In a candy mold, a rigid outer frame, a plurality of parallel mold strips arranged within the frame and each comprising a single strip of resilient material bent to form a base having projecting outwardly from one side thereof a plurality of partitions, each partition comprising parallel flatly engaging portions of the strip and separating strips arranged between each mold strip and the ends of the partitions of the next adjacent mold strip.

1,680,295. MOTION-PICTURE APPARATUS. ALBERT S. HOWELL, Chicago, Ill., assignor to Bell & Howell Company, Chicago, Ill., a Corporation of Illinois. Original application filed July 1, 1922, Serial No. 572,170. Divided and this application filed Apr. 24, 1924. Serial No. 708,706. 6 Claims. (Cl. 88—18.4.)



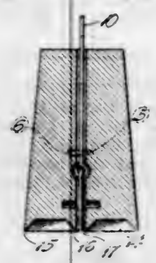
1. A motion picture projecting machine including an apertured film guide, a shuttle for engaging and feeding a film therein, a rotating cam for effecting film advancing and return movement of the shuttle and disposed to the side of one edge of the film in said guide on an axis normal to the plane of the film, means for effecting engagement and disengagement of the shuttle with a film in timed relation with but one of each plurality of advancing movements of the shuttle to intermittently feed the film including a second rotating cam and a rotatory connection between the cams effecting a plurality of revolutions of the first mentioned cam during one of the second cam, and a revolving light shutter secured with the first mentioned cam and adapted to sweep over the aperture of the guide to interrupt the light during advance of the film.

1,680,296. MIXER-DRUM CONSTRUCTION. ELBERT C. LEACH, Oshkosh, Wis., assignor to Leach Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed July 8, 1926. Serial No. 121,078. 1 Claim. (Cl. 88—78.)



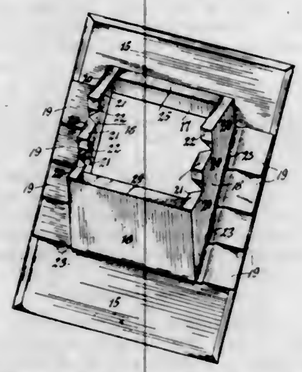
In a mixer drum, a head in the form of a single apertured sheet metal disk which is shaped in such a way that the portion of the disk immediately surrounding the aperture lies in one plane and is located farther from the inside of the drum than the other portions of the disk, and a drip ring of greater circumference than the portion of the disk about the aperture, which ring is welded to said portion in radial continuity with the same.

1,680,297. PLUMB BOB. FLOYD M. LEWIS, Pascagoula, Miss. Filed Jan. 13, 1927, Serial No. 160,861. Renewed June 25, 1928. 5 Claims. (Cl. 33—216.)



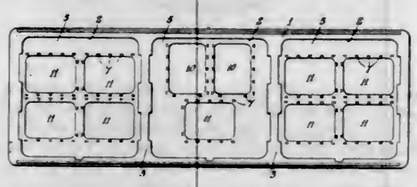
1. In a plumb bob adapted for use with a metallic tape, a body formed in the shape of a frustrum of a cone split along its longitudinal center line into two portions; each of said portions having corresponding recesses adapted to receive said tape; and means for fastening the portions together.

1,680,298. CHIMNEY FLASHING. JOHN A. LOCK, Buffalo, N. Y. Filed Sept. 17, 1926. Serial No. 136,112. 4 Claims. (Cl. 108—26.)



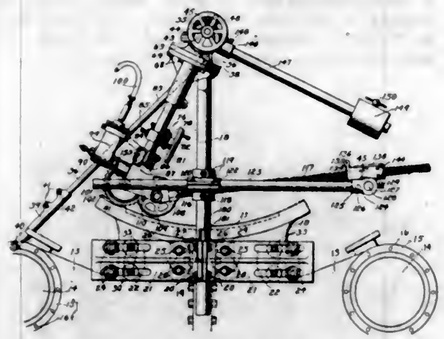
1. A chimney flashing comprising a base plate adapted to be placed over the boards of a roof and having an opening adapted to register with the chimney opening in the roof, a tubular body rising from said base around the opening thereof and adapted to receive the chimney which extends through the roof, and wings arranged on the base to lap one another and adapted to be interculated with the shingles of the roof.

1,680,299. MEANS FOR MOUNTING NEGATIVES FOR DIAGNOSES. ELLIOTT B. MABEE, Brooklyn, N. Y. Filed Nov. 30, 1923. Serial No. 677,918. 5 Claims. (Cl. 40—158.)



1. The herein described means for the examination of negatives which comprises a holder in combination with a series of individual mounts provided with openings, the mounts being separately adjustable in the holder in a plurality of positions, means on the holder for retaining the mounts therein, and means on the mounts for retaining negatives in register with the openings in said mounts, substantially as and for the purpose set forth.

1,680,300. CYLINDER-SADDLE MILLING MACHINE. LOUIS V. MALLORY, Kansas City, Mo., assignor of one-half to R. F. Best, Kansas City, Mo. Filed June 7, 1926. Serial No. 114,229. 9 Claims. (Cl. 90—12.)

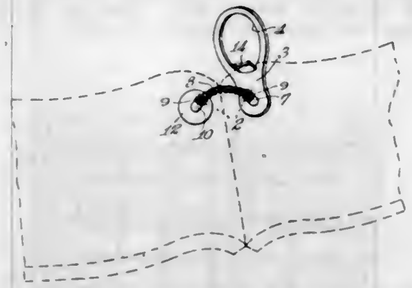


1. In a machine of the character described, a framework, means for securing the framework to the work to be operated on, a cutter carrying head, a rotatable arm carrying said head mounted on said framework, and means for supporting said arm, said arm being mounted to swing about the axis of said means and being rotatable about an axis transverse thereto and movable parallel to the axis of said means.

1,680,301. STEEL ALLOY. GEORGE L. NORRIS, Summit, N. J., assignor to Vanadium Corporation of America, a Corporation of Delaware. Filed Jan. 19, 1927. Serial No. 162,208. 1 Claim. (Cl. 75—1.)

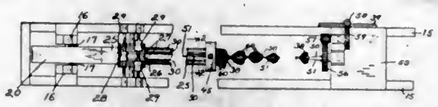
A steel alloy consisting of silicon 0.40% to 2.00%, vanadium 0.05% to 0.50%, manganese 0.20% to 0.60%, and carbon 0.10% to 1.00%, the balance being iron with the usual impurities of commercial steel.

1,680,302. COMBINED BOOK HANGER AND ADVERTISING MEDIUM. EDWARD ELLERY O'CONNOR, Strathmore, Quebec, Canada. Filed May 14, 1926. Serial No. 109,136. 3 Claims. (Cl. 45—58.)



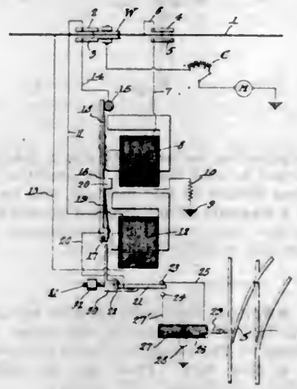
1. A book hanger consisting of a vertically disposed rigid suspension member, a horizontally disposed flexible post carried by and projecting from the said member and adapted to be passed through a book, and a removable retaining means mounted upon the free end of said post and adapted to prevent displacement of the book therefrom, and means for maintaining the suspension member in its position relatively to the book.

1,680,303. TINSEL AND THE LIKE AND METHOD FOR THE MANUFACTURE THEREOF. WILLIAM H. SCHNEIDER, Milwaukee, Wis., assignor to Arthur C. Kootz, Milwaukee, Wis. Filed Jan. 10, 1925. Serial No. 1,710. 8 Claims. (Cl. 41—10.)



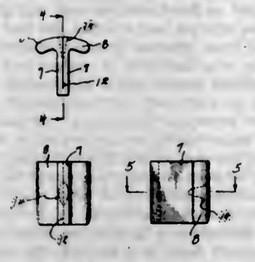
1. The method of manufacturing tinsel comprising the slitting of the web inwardly from its side margins leaving a continuous central portion of the web unslitted, the application to such portion of re-enforcing tensile members and the twisting of such members whereby to twist said central portion.

1,680,304. ELECTRIC TRACK SWITCH. RICHARD R. SCOGGAN, Jeffersonville, Ind., assignor to Cheatham Electric Switching Device Company, Louisville, Ky. Filed Dec. 23, 1924. Serial No. 757,670. 10 Claims. (Cl. 246—227.)



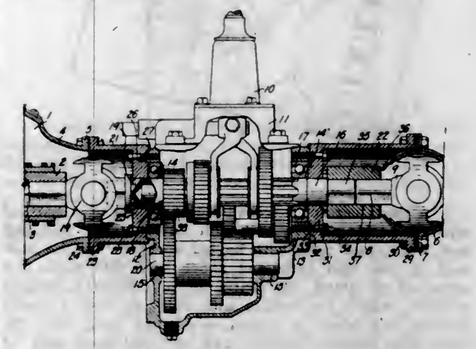
2. In an electric track switch having trolley wire contactors, track magnets, a control magnet operated by car motor current, an electric connection between a trolley contactor and the track magnets, a switch arm forming a part of said connection, a retractile armature co-operating with said switch arm and with said control magnet to break the circuit between the contactor and the track magnets after the control magnet is deenergized.

1,680,305. DENTURE ATTACHMENT. ISIDORE STERN, New Rochelle, N. Y. Filed Sept. 2, 1926. Serial No. 133,121. 4 Claims. (Cl. 32—12.)



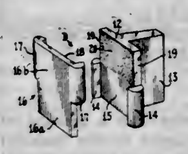
1. An adjustable denture attachment comprising, a bridge connecting shank provided with a cleavage plane paralleling the shank surfaces and dividing it into two parts which are joined at one end and separably free for adjustment at the other end, and provided with a spreading tool receiving socket at the free end, and said receiving socket having an elliptical mouth, the major axis of which is coincident with the cleavage plane.

1,680,306. TRANSMISSION. LAWRENCE L. STEWART, Kansas City, Mo. Filed Aug. 12, 1927. Serial No. 212,493. 1 Claim. (Cl. 74—58.)



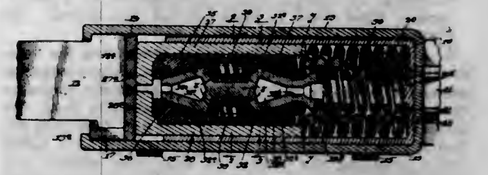
An adapter having an exterior annular flange for attachment to a transmission housing, an internal annular flange for attachment to a second transmission housing, and a bearing opening to receive the driving member of the second named transmission.

1,680,307. DENTURE ATTACHMENT. ISIDORE STERN, New Rochelle, N. Y. Filed Nov. 26, 1926. Serial No. 150,670. 5 Claims. (Cl. 32—12.)



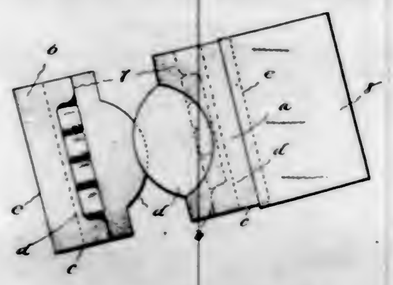
1. In a denture attachment, a T-shaped support having a head, flanges carried with the head along opposite sides thereof, a leaf spring, flanges carried with the spring to overlie the sides of the head, and means to secure the leaf spring to the head to flex between the first named flanges.

1,680,308. DRAFT GEAR. SVEN J. STRID, Chicago, Ill., assignor to Roy J. Cook, Chicago, Ill. Filed Mar. 13, 1926. Serial No. 94,393. 4 Claims. (Cl. 213—32.)



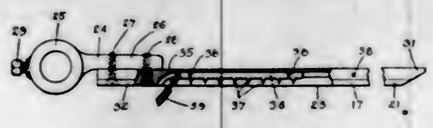
1. A socket member, a pair of slide members slidably mounted therein, a plunger tapered at each end, a wedge block between each tapered end and one of said slide members, means to yieldingly resist movement of said slide members, plunger and blocks, said blocks being spaced apart, means yieldingly maintaining said blocks in normal spaced relation, said last named means comprising a coiled spring said plunger being recessed to accommodate said spring.

1,680,309. DISPLAY CONTAINER. ARNOLD J. TANNER, North Haven, Conn. Filed Apr. 30, 1927. Serial No. 187,788. 3 Claims. (Cl. 206—44.)



1. A container for merchandise composed of a pair of separate packing units, each unit having front, side and back walls, said units both having an open top, the back wall of one unit extending above said side walls and arranged to stand constantly in a relatively upright position, means for uniting said units to form a single package and when so united said units lying with the open tops thereof together and said extended back of one unit overlapping the other unit.

1,680,310. STATIC COLLECTOR FOR PRINTING PRESSES. CHARLES WEBER, Remer, Minn. Filed Mar. 29, 1924. Serial No. 702,991. 2 Claims. (Cl. 175—264.)



1. In combination with a grooved member for manipulating sheets of paper having engaging surfaces adapted to come in contact with said sheets, charge collectors mounted upon said member in said groove having a multiplicity of points formed thereon adapted to extend outwardly in spaced relation to said member and to within a short distance of the engaging surfaces thereof and means for connecting all of said points together and for grounding the same.

1,680,311. RECIPROCATING MOTOR. CARL S. WEYANDT, Pittsburgh, Pa., assignor to Central Electric Tool Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 1, 1926. Serial No. 85,245. 69 Claims. (Cl. 172—126.)

1. A portable reciprocating motor comprising the combination with a reciprocating core system, electro-magnetic means for actuating said system, and structure enclosing them, of an operator's handle offset laterally from the path of movement of said core system and from said enclosing structure adjacent one end thereof, and a buffer spring receiving the impact of said core system and visibly disposed outside of said enclosing structure beyond said handle.

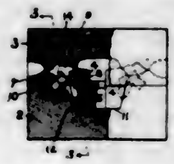
19. A reciprocating motor comprising a reciprocating core system, and an energizing winding therefor of conductor having low specific gravity and high specific resistance as compared with copper.

28. A percussive tool comprising a ballast tamper or other tool to be operated with long high power strokes, a reciprocating motor comprising a moving core system for impacting the tamper or other tool, said core system having a weight lying within the range from about two to about four pounds, a magnet system having an air gap of such length as to effect a stroke of said system lying within the range from about 1¼ inches to about 2½ inches, and winding structure for energizing said magnet system.



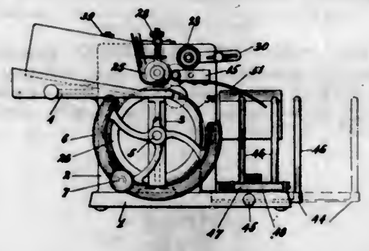
50. A reciprocating motor comprising a tubular barrel, bearings carried by said barrel, a reciprocating core having extensions slidable in said bearings, and magnetizable elements of a magnetic circuit disposed around said barrel and having pole tips extending therethrough and lying substantially flush with its internal bore.

1,680,312. METHOD AND MEANS FOR MOLDING ARTIFICIAL TEETH. GEORGE H. WHITELEY, Jr., York, Pa., assignor to The Dentists' Supply Company, a Corporation of New York. Filed Apr. 22, 1926. Serial No. 103,703. 10 Claims. (Cl. 32—6.)



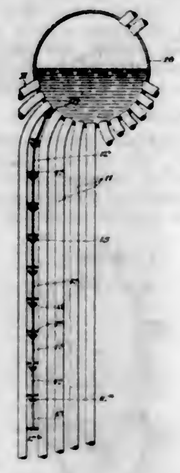
1. Molding means for molding artificial teeth, which consists of a three-part mold two of which parts are detachably clamped in fixed relation and the other part in detachable loose relation and wherein the two parts which are clamped in fixed relation provide separated clamping recesses opening into their line of contact and one of them has a core receiving socket, and a combustible core having a shank fitted to the core receiving socket of the first mentioned mold parts and having its body part projecting into the tooth space, said core also provided with laterally extending arms the ends of which are respectively clamped in the recesses between the first mentioned two mold parts which are detachably clamped in fixed relation and about which core the porcelain material is molded, said core adapted to be subsequently burned out when vitrifying the tooth whereby said tooth will be properly molded with a recess in its cervical end and with lateral passages opening from said recess through the outer walls of the body of the tooth.

1,680,313. MAIL-MARKING MACHINE. LAWRENCE J. ZAHN, Long Island City, N. Y., assignor to International Postal Supply Company, Brooklyn, N. Y. Filed Aug. 1, 1925. Serial No. 47,496. 14 Claims. (Cl. 101—236.)



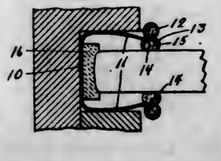
1. In a mail marking machine, a base, a housing extending from the base, a main operating shaft having a support in said housing, an inker and a separator roller both adjustably carried on the housing, a printing die and trip mechanism therefor and a printing pressure roller also carried on the housing and a single feed roll carried directly on said shaft in cooperation with the separator roller.

1,680,314. BAFFLE FOR WATER-TUBE BOILERS. NORMAN APPENZELLER, Milwaukee, Wis., assignor to Kidwell Boiler Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 2, 1927. Serial No. 165,278. 9 Claims. (Cl. 110—98.)



1. In a boiler of the series drum and tube type, the combination with the rearward bank of water tubes and the overlying drum to which they are connected, of integral cast iron baffle plates assembled in successive rows between adjacent tubes, the abutting longitudinal edges of the plates of the respective rows having articulated joints, said joints being formed by similar laterally extending flanges along the edges of the plates of one rod, there being a relatively wide arcuate groove between the flanges in which are seated the edges of the plates in adjacent rows, and means supporting the assembled plates and maintaining the uppermost row thereof in close relation to the said drum.

1,680,315. WINDOW-GLASS GUIDE. EDWIN W. M. BAILEY, Amesbury, Mass. Filed Feb. 25, 1925. Serial No. 11,450. 8 Claims. (Cl. 296—44.5.)



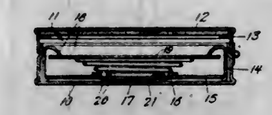
1. A window glass guide comprising a U-form metal channel strip having two rows of teeth formed on each side, one on the edge thereof and the other on an adjacent portion of the side, and cushioning material disposed on the inner surfaces of each side and having portions thereof clamped between each pair of corresponding rows of teeth.

2. A window glass guide comprising a channel form metal strip having the outer portions of its sides extended from each other and then reversely to form clamping members disposed without the planes of the inner surfaces of the sides, and cushioning material disposed on said inner surfaces and having portions thereof held between said clamping members.

1,680,316. COMPOSITE TITANIUM PIGMENT AND METHOD OF MAKING SAME. LOUIS E. BARTON and LONNIE W. RYAN, Niagara Falls, N. Y., assignors to Titanium Pigment Company, Inc., New York, N. Y., a Corporation of Maine. Filed July 8, 1925. Serial No. 42,319. 18 Claims. (Cl. 134—58.)

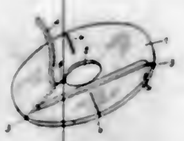
3. The method of making composite titanium pigments from a titanium solution which comprises separately and preliminarily forming a suspension comprising acicularly crystalline particles of calcium sulphate, then adding same to the titanium solution, treating the charge to precipitate the titanium compounds upon said calcium sulphate particles, separating the precipitates from the solution, and calcining same.

1,680,317. RECEPTACLE FOR FACE POWDER AND THE LIKE. PHILIP C. P. BOOTY, Chicago, Ill., assignor to Michael T. Daley, Chicago, Ill. Filed Feb. 25, 1926. Serial No. 90,473. 15 Claims. (Cl. 132—83.)



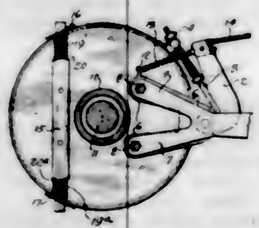
1. A receptacle for face powder and the like, comprising in combination a casing having an opening thereinto, a plate on the inner face of the casing adapted to close the opening and held against displacement edgewise with respect to the opening, a second opening being provided into the casing, a second plate on the inner face of the casing adapted to close said second opening and adapted to be displaced edgewise from the opening for filling the casing, and spring means adapted normally to hold said plates yieldingly in closing position, the arrangement being such that by the inward and outward movement of the first named plate air is forced from the casing through said first named opening for carrying a supply of powder from the receptacle.

1,680,318. ASSEMBLY DISK FOR ELASTIC MATERIAL. CHRISTIAN E. CALLAHAN, Willard, Ohio, assignor to The Pioneer Rubber Company, Willard, Ohio, a Corporation of Ohio. Filed June 25, 1927. Serial No. 201,306. 7 Claims. (Cl. 46—53.)



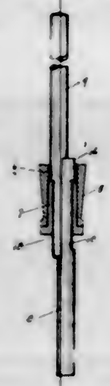
1. In a connector for an elastic member, a relatively stiff sheet material part having an opening formed therein and having slots extending from the inner and outer edges of the sheet material part, the edges of the slots being positioned sufficiently close to pinch the elastic member between the edges of the slots when the elastic member is forced into the slots.

1,680,319. BRAKE MECHANISM FOR VEHICLES. DELBERT R. CAPES, Chicago, Ill., assignor to A-C Manufacturing Co., Inc., a Corporation of Illinois. Filed Jan. 9, 1926. Serial No. 80,159. 4 Claims. (Cl. 188—77.)



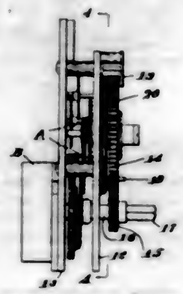
1. In a brake mechanism, a brake band having spaced guides on the periphery thereof, an offset bar extending across a portion of said band and projecting through said guides, and yieldable means associated with said bar and tending to force said band outwardly.

1,680,320. BUSHING REMOVER. EDMUND COOKENMASTER, Fairgrove, Mich. Filed Sept. 9, 1926. Serial No. 134,400. 1 Claim. (Cl. 29—88.2.)



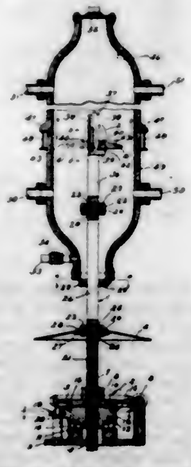
In a bushing remover, the combination of cylindrical driving and driven members, one end of the driving member having a flatted section adapted to form a shoulder, the opposite side having a shorter turned section forming a bushing engaging shoulder, there being a flatted section and shoulder formed on one side of the driven member and adapted to engage the flatted section on the driving member, the opposite side having a rounded section the upper end of which is shouldered and tapered to engage a bushing, the end of each member engaging the shoulder formed on the other member.

1,680,321. TIME-CLOCK INDICATOR. FRANKLIN E. CRAWFORD, Winchester, Mass., assignor to Bankers Electric Protective Association, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 9, 1921. Serial No. 490,838. 2 Claims. (Cl. 177—311.)



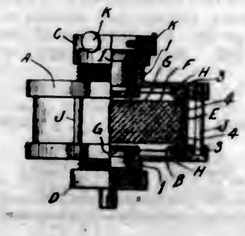
1. Vault protection apparatus comprising lock control mechanism located inside the vault and inaccessible from the exterior thereof when the vault is locked, said mechanism including means adapted to be set so that the vault lock will be conditioned for opening at the end of a period of time of determined length, and being designed to prevent the unlocking of the door until the expiration of said period, and an indicator outside of the vault for indicating the unelapsed portion of said period, and means whereby said indicator is electrically controlled by said mechanism to show the unelapsed portion of said period, whereby the condition of the lock control mechanism is indicated exteriorly of the vault during the time in which it is inaccessible.

1,680,322. EXCAVATING DEVICE. BUTLER P. CRITTENDEN, Watertown, and ALVIN C. KILLINGER, Everett, Mass., assignors to Beacon Oil Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 1, 1926. Serial No. 138,878. 8 Claims. (Cl. 83—6.)



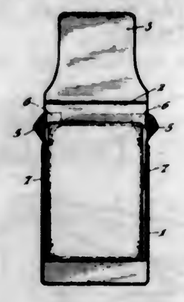
1. Apparatus for excavating the contents of containers having in combination a thrust bearing fixedly mounted on the axis of an opening into the container, an axially movable shaft and propelling means therefor reacting against said thrust bearing, a boring head on said shaft, and means for rotating and for axially propelling said shaft as a consequence of its rotation, means for varying the propulsion thrust, and means permitting said shaft to be interposed and removed from interposition between said thrust bearing and said container.

1,680,323. WATER FILTER ATTACHABLE TO FAUCETS. HERBERT HUDSON CULVER, St. Louis, Mo. Filed July 16, 1925. Serial No. 43,968. 6 Claims. (Cl. 210—81.)



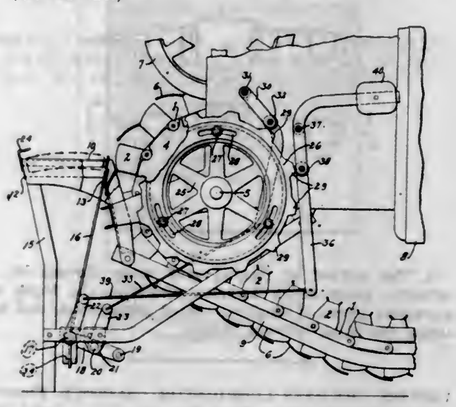
6. In a filter for service on a faucet, a body comprising paired retaining members, and a tube spacing said retaining members, the retaining members having annular grooves and inlet and outlet necks, ring gaskets seated in said grooves and spacing the tube ends from the retaining members, a filter element within the tube and bearing on said gaskets and means for securing the retaining members to retain the elements assembled therein.

1,680,324. CIGARETTE CASE. FRANK F. DANVILLE, Gloversville, N. Y. Filed Mar. 8, 1926. Serial No. 93,046. 1 Claim. (Cl. 106—41.)



A container for packages comprising a box open at the top for the reception of the package, a cover for the box, said box and cover being composed of a flexible material and the cover being integrally formed with the box along one edge and adapted to open along said edge, a ribbon composed of a single piece of yielding flexible material and having both of its ends secured rigidly to the cover, said ribbon extending beneath the package and along opposite sides thereof, and straps secured to the interior opposite sides of the box for guiding the ribbon and for maintaining the same flat against the side of the box.

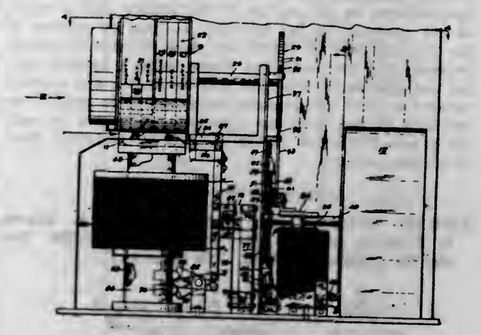
1,680,325. LOADING DEVICE. JOSEPH W. DAWSON, St. Louis, Mo., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 11, 1926. Serial No. 134,831. 12 Claims. (Cl. 198—24.)



1. In a loading device, guides for the articles to be loaded, a series of pushers extending into said guides to push the articles therein, a shield extending over the course of said pushers, said pushers being movable from a starting position below said shield to a delivery position remote from said shield, means for withdrawing said pushers from the course of the articles in said guides, and means for returning the pushers to said starting position while they are withdrawn.

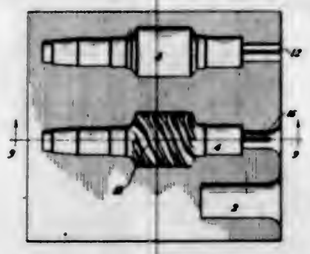
2. In a loading device, guides for the articles to be loaded, and a series of pushers movable in said guides to push the articles therein, said pushers comprising a series of elongated elastic rods having free ends which yieldingly engage the articles.

1,680,326. AUTOMATIC TIME-PRINTING DEVICE. CHARLES S. DUTTON, Oakland, Calif. Filed Apr. 4, 1927. Serial No. 180,695. 7 Claims. (Cl. 234—41.5.)



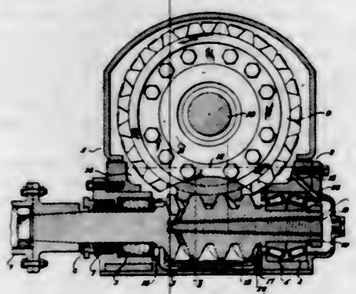
1. In a device of the character described, type means against which a card is arranged to be projected, means normally spaced from said type means to receive the card, a displaceable member arranged in the path of insertion of the card, means associated with said displaceable member to cause the projection of the card against said type means upon the displacement of the displaceable member by a card, and means thereafter automatically operative for releasing the printed card and for returning said displaceable member to its original position.

1,680,327. METHOD OF FORGING GEAR WORMS. ALBERT L. EICHER, Canal Fulton, Ohio. Filed June 26, 1926. Serial No. 118,659. 17 Claims. (Cl. 78—45.)



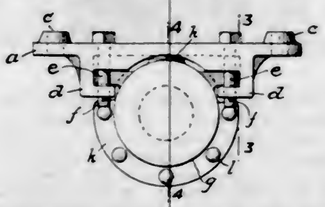
1. The method of forging gear worm threads on a cylindric blank which includes subjecting the blank to successive blows of identical thread impressions, and rotating the blank between blows.

1,680,328. BY-PASS LUBRICATOR. ALBERT L. EICHER, Canal Fulton, Ohio. Filed Feb. 12, 1927. Serial No. 167,673. 11 Claims. (Cl. 184—11.)



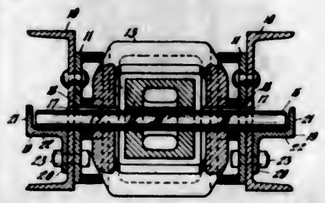
1. Lubricating means for friction contact members, such as worm gears and the like, including a housing member for containing a lubricant, gear members in the housing member operating to create a region of high pressure in the lubricant in one portion of the housing and a region of low pressure in the lubricant in another portion of the housing adjacent the initial place of friction contact between said gear members, there being a by-pass having one opening in said high pressure region and another opening in said low pressure region, so as to permit the lubricant to flow from the high pressure region through the by-pass to the low pressure region at the initial place of friction contact.

1,680,329. JOURNAL BOX FOR CAR WHEELS. JAMES R. FLEMING, Scranton, Pa. Filed Sept. 10, 1926. Serial No. 134,626. 1 Claim. (Cl. 308—40.)



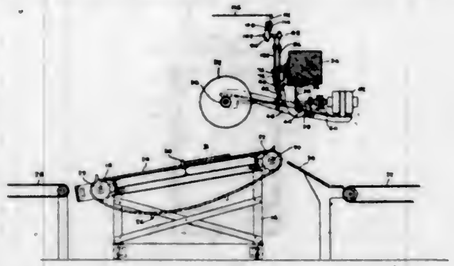
A journal box for car wheels comprising a hanger adapted to be secured to a car and a barrel carrying a bearing for the end of an axle, said barrel being provided with oppositely extending flanges and said hanger having guideways formed therein to receive said flanges, said guideways extending parallel to the axle and open at their outer ends to permit removal of the barrel by axial outward movement thereof relative to the hanger, and removable pins extending across said guideways and engaging the flanges to normally prevent outward movement of the barrel, said guideways being higher than said flanges to permit relative vertical movement between the barrel and hanger, and a stop means for limiting vertical movement between the hanger and bearing comprising a member on one engaging a surface on the other.

1,680,330. DRAFT-RIGGING-KEY RETAINER. WILLIAM A. GEIGER, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Oct. 12, 1925. Serial No. 61,929. 4 Claims. (Cl. 213—50.)



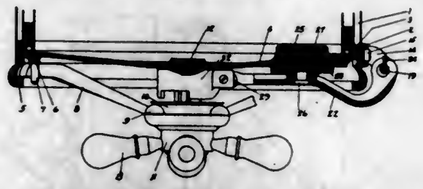
1. In a railway draft rigging, the combination with draft sills having alined key receiving openings and a connecting key working in said openings and having the ends thereof projecting through the sills and beyond the outer sides of the same; of means for limiting endwise movement of said key to retain it in assembled relation with the draft rigging, said means including a detachable, rigid bracket fixed to each sill adjacent the key receiving opening thereof, each of said brackets having one end section thereof secured to a draft sill and having the other free end section thereof overlapping the corresponding end of the key.

1,680,331. SAWING MACHINE. HENRY C. HILKE, Seattle, Wash. Filed Feb. 12, 1926. Serial No. 87,783. 3 Claims. (Cl. 143—41.)



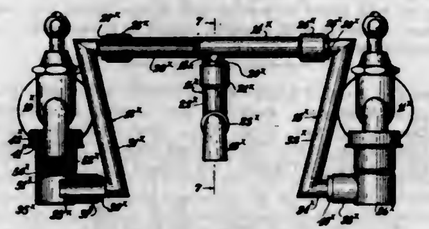
1. A sawing machine comprising means for feeding boards, a beam, a swinging support pivotally mounted between its ends on said beam, a circular saw mounted on the front end of said support, a motor mounted on the rear end of said support, driving connections between said motor and saw, rods pivotally attached at one end to the forward portion of said support, arms secured to said beam, said arms having openings through which said rods extend, enlargements on the other ends of said rods, springs between said enlargements and arms normally holding the front end of said support upwardly, and means for depressing said front end in opposition to the tension of said springs.

1,680,332. DOOR MOUNTING. RAYMOND L. JEWELL, Millcreek Township, Erie County, Pa., assignor to American Sterilizer Company, Erie, Pa., a Corporation of Pennsylvania. Filed Nov. 25, 1925. Serial No. 71,481. 8 Claims. (Cl. 220—55.)



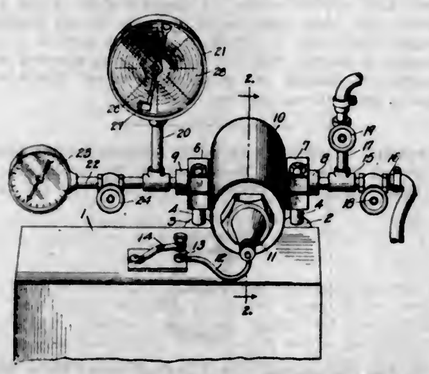
1. In a door mounting, the combination of a door seat; a door; a door supporting arm having a slot at its inner end and a hinge connection at its outer end; a joint connection between the door and the arm; and a screw operating in the slot to adjust the door across the arm.

1,680,333. WATER-SUPPLY-FAUCET ATTACHMENT. LOUIS KOOPERSTEIN, New York, N. Y. Filed May 25, 1927. Serial No. 193,982. 5 Claims. (Cl. 137—111.)



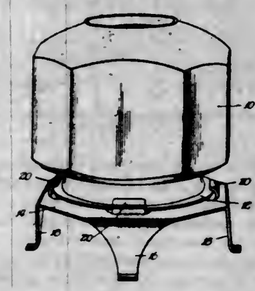
3. A twin faucet attachment comprising a tubular coupling member to lie between the faucets and having a forward discharge, cups adapted to be connected with the discharges of the faucets and having outlets, main branch pipes slidably and rotatably connected at their upper ends with the ends of said coupling member and slidably and rotatably connected at their lower ends with the outlets from said cups, said discharge from the coupling member comprising a nipple rigid with said member, a tubular angle-coupling having one of its members rotatably mounted on said nipple and a spout on the other coupling member.

1,680,334. TESTING DEVICE. JAMES O. LEWIS and HOMER R. PIERCE, Tulsa, Okla. Filed Mar. 28, 1927. Serial No. 178,974. 10 Claims. (Cl. 73—51.)



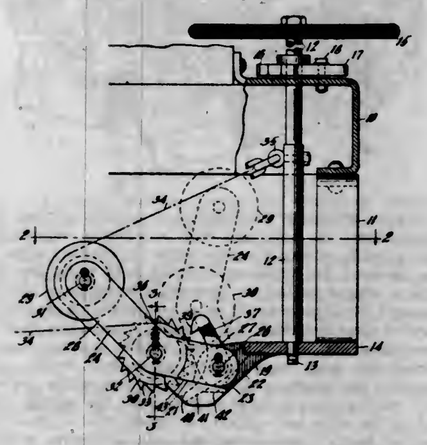
1. In a testing device of the character described, the combination of a combustion chamber, air and gas inlets leading to said chamber, gauges communicating with said chamber, means arranged within said chamber for mixing the fluid introduced to said chamber, and means for causing combustion in said chamber.

1,680,335. DISPLAY AND DISPENSING CONTAINER. EDWARD MESSER, Cincinnati, Ohio. Filed Jan. 13, 1926. Serial No. 80,951. 6 Claims. (Cl. 221—146.)



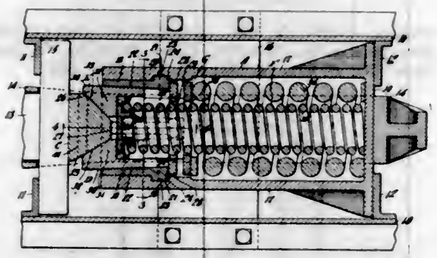
2. A display and dispensing container comprising an inverted transparent receptacle having a mouth and a lip around said mouth, a supporting annulus clamped to said lip, a downwardly and rearwardly extending discharge chute fastened to said annulus, and spaced legs on said annulus co-operating with said chute to form a multi-point support for said annulus and receptacle, said receptacle having a flat side opposite said chute to co-operate with certain of said legs to form a multi-point support when said container is turned on its face with said chute opening up for filling.

1,680,336. HAND BRAKE. JOHN F. O'CONNOR, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Jan. 5, 1923, Serial No. 610,754. Renewed Feb. 16, 1928. 12 Claims. (Cl. 254—149.)



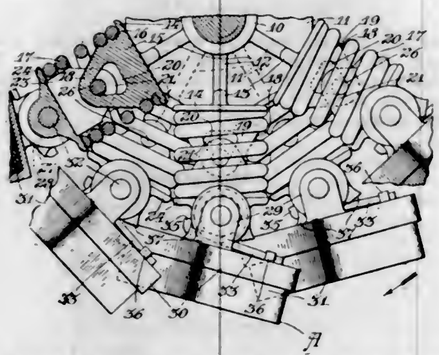
1. In a hand brake, including a brake chain, the combination with a vertical brake staff; of a lever pivotally mounted between said staff and the brake mechanism proper and chain guiding means on said lever, said chain guiding means comprising a pair of radially spaced sheaves, said chain connected at its ends to said staff and brake mechanism and passing over said sheaves.

1,680,337. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 28, 1927. Serial No. 171,407. 4 Claims. (Cl. 213—32.)



1. In a friction shock absorbing mechanism, the combination with a spring cage having opposed interior liners at the outer end thereof, said liners presenting interior opposed friction surfaces; of interengaging means on the liners and cage for detachably connecting the liners to the cage and locking the liners against longitudinal movement with respect to the cage; friction shoes cooperating with the friction surfaces of the liners; a wedge member engaging the shoes for spreading the same apart against the liners to hold the liners interlocked with the cage; means rigid with the wedge member engaging the inner ends of the liners for anchoring the wedge to the cage and limiting outward movement of the wedge; and spring resistance means within the cage opposing movement of the shoes.

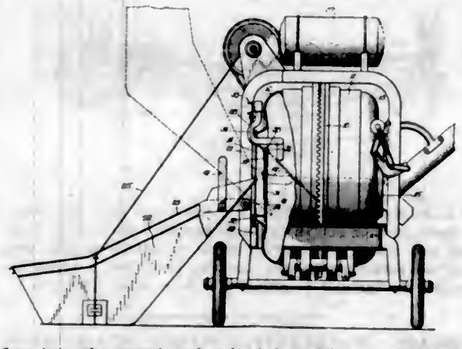
1,680,338. WHEEL. DARIUS T. PHILLIPS, Chicago, Ill. Filed Jan. 26, 1925. Serial No. 4,688. 6 Claims. (Cl. 305—12.)



3. In a wheel, the combination of a center portion provided around its periphery with a plurality of enlarged spring heads alternately protruding on opposite sides of the plane of the wheel, each spring head being provided with a tongue having an aperture enlarged in a circumferential direction towards its inner portion, a connecting member provided with an inwardly protruding portion carrying a pin adapted to move within said aperture, a spring for each intermediate connecting section surrounding the tongue and the coacting protruding portion, and bearing at its inner end against the spring head and at its outer end against the intermediate connecting portion, and a tread section for each connecting portion pivotally mounted thereon.

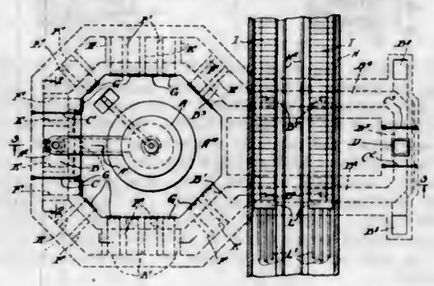
1,680,339. CONCRETE MIXER. ARNOLD REUSS, Oshkosh, Wis., assignor to Leach Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Nov. 2, 1927. Serial No. 230,466. 8 Claims. (Cl. 83—73.)

1. A machine of the class described, a supporting frame, a mixing vessel arranged for movement on said frame, said vessel having an opening, a splash shield supported in front of said opening to prevent splashing of the contents of the vessel during mixing operations, means for charging the vessel arranged movably between a charging position in which the contents thereof tend to



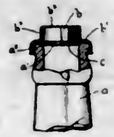
flow into the vessel and a loaded position in which the contents thereof do not tend to flow into the vessel, and means for causing said splash shield to open the opening of said vessel to permit flow of the charge into said vessel whenever said charging means is brought into the charging position.

1,680,340. GAS-PRODUCER-CONDUIT SYSTEM. HARRY M. ROBERTSON, Rockville, Md., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y., a Corporation of New York. Filed May 19, 1920. Serial No. 382,594. 6 Claims. (Cl. 158—7.)



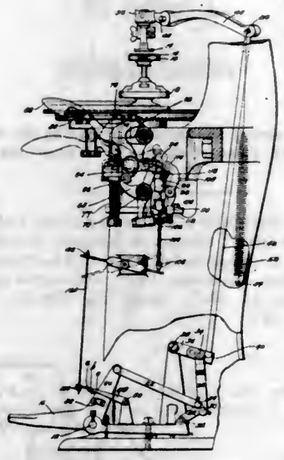
1. The combination with a gas producer of a delivery conduit comprising a central portion located at one side of the producer and connected to the gas outlet of the producer and end portions extending transversely away from said central portion at opposite sides of the producer, and projecting beyond the side of the producer remote from that at which the central portion of the conduit is located, said end portions being provided with means for cleaning the gas, and clean out openings at spaced points along said end portions.

1,680,341. BOTTLE CAP AND DISPENSING STRAW. FRANK ROSENTHAL, New York, N. Y. Filed Sept 3, 1926. Serial No. 133,389. 7 Claims. (Cl. 215—11.)



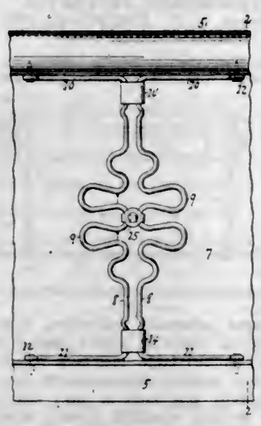
1. The combination with a sealing means for a bottle closure, of a folded dispensing tube, the two being so arranged and associated, that the latter means is received within the former means.

1,680,342. SOLE-ROUNDING MACHINE. ERNEST E. SABIN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 1, 1926. Serial No. 85,250. 17 Claims. (Cl. 12—25.)



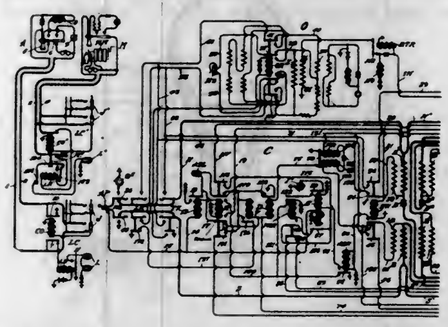
1. In a sole rounding machine, sole clamping mechanism, a member for controlling the sole clamping mechanism, rounding mechanism, an independently operable member for setting in operation the rounding mechanism, and means operated upon movement of the second-named member for locking the first-named member in an operative position.

1,680,343. STAIR-CARPET FASTENER. EUGENE A. SAVARY, Phoenicia, N. Y. Filed Dec. 7, 1925. Serial No. 73,542. 2 Claims. (Cl. 16—11.)



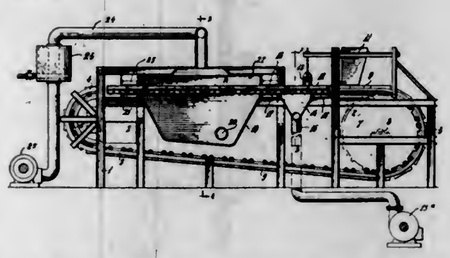
1. In a stair carpet fastener the combination with a pair of vertical members arranged alongside of each other, each member having an upper and lower arm extending laterally from the member, and a plurality of resilient loops formed in each member, of clips for connecting the members to longitudinally fold them together, and means for fastening the members to a stairway riser.

1,680,344. TELEPHONE SYSTEM. MICHAEL B. STAZAK, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 11, 1926. Serial No. 80,438. 10 Claims. (Cl. 179—51.)



1. A telephone system of the character described including a plurality of subscribers' lines, some of said lines having common battery substations and the remainder having magneto type substations, a cord circuit provided with answering and calling terminals for connecting any two of said lines, a set of repeating coils for said cord circuit, means associated with said answering and calling terminals effective to include said coils in or exclude them from said circuit, and a relay associated with said means being arranged to include said coils in said circuit whenever one of the connected lines is of the common battery type.

1,680,345. METHOD OF AND APPARATUS FOR SINTERING. HENRY J. STEHLI, Cedar Grove, N. J. Filed Nov. 19, 1926. Serial No. 149,337. 2 Claims. (Cl. 266—21.)

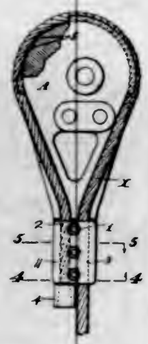


1. A sintering machine comprising means to support and operate movable receptacles, an igniter for igniting combustible material on the receptacles, a wind box in position to receive products of combustion from the igniter drawn through said material, means to induce suction through the wind box, a substantially closed chamber spaced from the igniter having means to permit the travel of the charged receptacles therethrough, and means independent of said suction inducing means for blowing air or other gases free from initial combustion products from the igniter through said chamber for passage through the material on the receptacles.

1,680,346. ROPE THIMBLE. CHARLES C. SUNDERLAND, Trenton, N. J., assignor to John A. Roebling's Sons Company, Trenton, N. J., a Corporation of New Jersey. Filed Nov. 17, 1926. Serial No. 148,806. 7 Claims. (Cl. 24—123.)

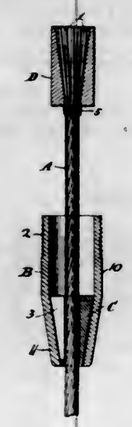
7. A rope thimble combined with a clamp at the inner end of the thimble having two rope passages formed

therein, one of said passages being constructed to hold the dead end of the rope against slip and the other passage constructed to permit slip of the rest of the



rope on the thimble, and a button on the dead end of the rope for holding the dead end positively against slip in the clamp.

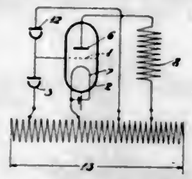
1,680,347. SOCKET FOR WIRE CABLES OR STRANDS. CHARLES C. SUNDERLAND, Trenton, N. J., assignor to John A. Roebling's Sons Company, Trenton, N. J., a Corporation of New Jersey. Filed Nov. 17, 1926. Serial No. 148,807. 4 Claims. (Cl. 24—123.)



1. A cable or strand connection, comprising a body of filling material in which the separated ends of the strand are embedded, a basket on the strand enclosing said body and in which said body is free to move along the strand, said basket having a portion decreasing in interior diameter in the direction of rope tension, and a compressible wedge in said basket portion free to move on the strand and compressed on the strand by the filled strand end under tension on the strand.

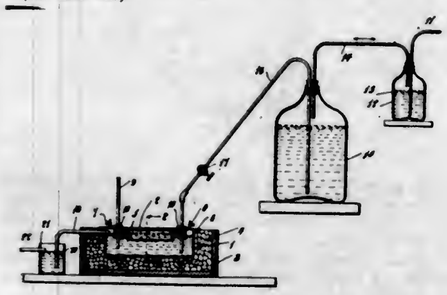
1,680,348. MEANS FOR REGULATING GRID VOLTAGE OF ELECTRON TUBES. GÜNTHER THILO, Friedenau, near Berlin, Germany, assignor to Radio Patents Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 24, 1924, Serial No. 757,886, and in Germany Jan. 6, 1923. 5 Claims. (Cl. 250—27.)

1. Means for regulating the grid voltage of a thermionic tube having three or more electrodes, input and output circuits interlinking said electrodes, a plurality of light sensitive elements, one of said elements being included in series with said input circuit and the other of said elements being included in series with a portion of



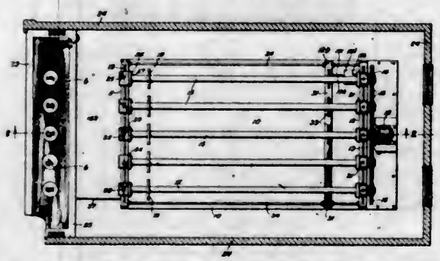
said output circuit and means for varying the illumination of said light sensitive elements to alter the resistance thereof.

1,680,349. PROCESS AND APPARATUS FOR DIALYZING LIQUIDS. OLIVER M. URBAIN, Columbus, Ohio, assignor, by mesne assignments, to The Travers Process Corporation, Columbus, Ohio, a Corporation of Ohio. Filed July 15, 1927. Serial No. 205,958. 5 Claims. (Cl. 210—2.)



1. A method for dialyzing a putrescible liquid comprising maintaining the liquid in a dialyzing tray floated in water in a zone free from oxygen.

1,680,350. AMUSEMENT APPARATUS. WILLIAM B. WARING, Bronx, N. Y. Filed Feb. 12, 1927. Serial No. 167,758. 7 Claims. (Cl. 273—86.)



1. Amusement apparatus comprising a series of horizontally disposed rotatable shafts, means for imparting rotation thereto, rotatable members loosely carried by said shafts and slidable longitudinally thereof, and trip members adjacent the ends of said shafts adapted to be operated by said rotatable sliding members substantially as, and for the purpose specified.

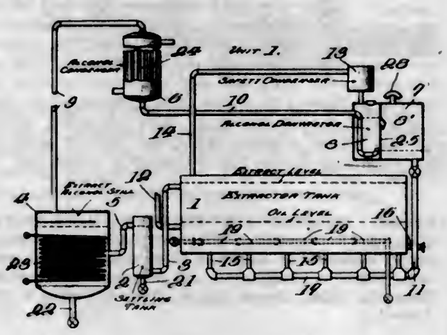
1,680,351. RAILROAD SPIKE. OAKLEY H. WARNE, Elburn, Ill. Filed June 5, 1925. Serial No. 35,030. 1 Claim. (Cl. 85—30.)

A railroad spike having a head projected from one face thereof and having a lower tapered surface along said face lying in a single transverse plane, the opposite face of the spike having two beveled faces extending from points above the upper termination of said tapered surface, said beveled faces meeting at an exterior sharp



edge, the edges of said first surface and of said other faces being tapered inward and meeting in a point at the termination of the spike.

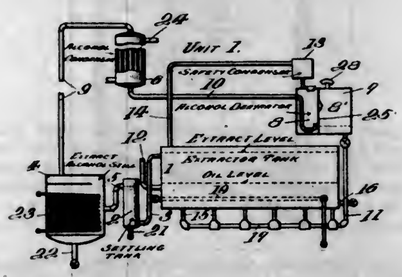
1,680,352. PROCESS FOR THE FRACTIONAL EXTRACTION OF PETROLEUM HYDROCARBONS WITH ALCOHOL. THEODORE A. WERKENTHIN, Lima, Ohio, assignor to The Solar Refining Company, Lima, Ohio, a Corporation of Ohio. Filed Nov. 19, 1924. Serial No. 750,783. 7 Claims. (Cl. 196—13.)



1. The process of treating skimmed petroleum oils comprising successively extracting the same with heated anhydrous alcohol at a temperature somewhat below its boiling point, and recovering from the extraction products, a cracking stock and lubricating oils and alcohol for use in the process.

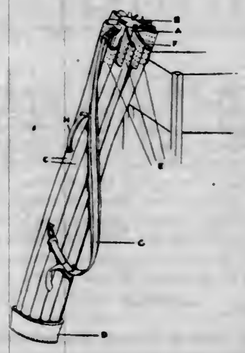
1,680,353. APPARATUS FOR THE FRACTIONAL EXTRACTION OF PETROLEUM HYDROCARBONS WITH ALCOHOL. THEODORE A. WERKENTHIN, Lima, Ohio, assignor to The Solar Refining Company, Lima, Ohio, a Corporation of Ohio. Original application filed Nov. 19, 1924, Serial No. 750,783. Divided and this application filed Nov. 4, 1925. Serial No. 66,727. 4 Claims. (Cl. 196—13.)

1. In an apparatus for extracting hydrocarbons with an alcohol, the combination in operative relation of an extractor-tank having means for introducing alcohol, means for withdrawing alcohol therefrom, means for introducing a hydrocarbon oil, and means for withdrawing a hydrocarbon oil after extraction with alcohol; an extract alcohol-still for recovering alcohol and hydrocarbon, a settling chamber intermediate the extractor-tank and the extract alcohol-still provided with means for receiving an alcoholic extraction-product from said



extractor tank and means for conducting the extraction-product after settlement into the alcohol extract-still; a combined alcohol storage and dehydrator tank having means for conducting the hydrated alcohol to said extractor-tank; and an alcohol condenser having means for receiving uncondensed alcohol from the extract alcohol-still, and means for conducting condensed undehydrated alcohol to the storage and dehydrator-tank.

1,680,354. GOLF BAG. CLARK C. WILLIAMS, Ascot, near Brisbane, Queensland, Australia. Filed Nov. 15, 1926. Serial No. 148,495. 2 Claims. (Cl. 150—105.)



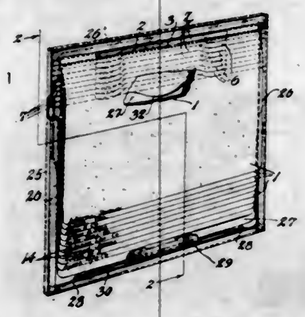
1. A substantially-indeformable golf bag, comprising a central cylindrical casing to receive golf balls; and a multiplicity of vertical club-receiving pockets arranged entirely around the casing and coextensive in height therewith, said pockets being secured permanently to said casing.

1,680,355. VISIBLE INDEX SYSTEM. GEORGE WOODHOUSE, Butte, Mont. Filed Mar. 31, 1926. Serial No. 98,795. 8 Claims. (Cl. 129—16.)

4. An index card or sheet comprising a body portion having a bendably connected extension, and a removable carrier member mounted in said extension and projecting beyond the side edges thereof, said carrier being retained by passage through apertures in said extension.

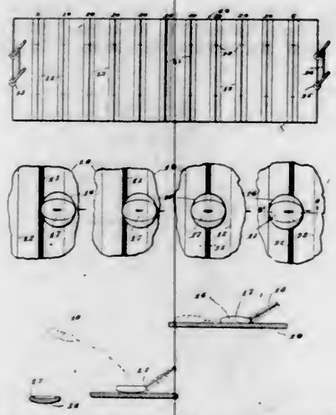
6. An index card or sheet comprising a body portion provided with means for supporting the same in a holder and recesses at the lower side edges thereof, and a pro-

tector bent upon itself to embrace said edges and formed with a tongue cut therefrom so as to project from its base toward the bend line to interlock with said recesses.



7. In a card index, the combination with a holder, of a series of associated sheets slidingly mounted therein and adapted to engage the upper portion of the holder, and a retaining device supported by the lower portion of the holder and adapted to be withdrawn laterally of the assembled sheets.

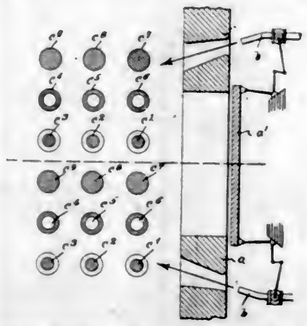
1,680,356. INDOOR PARLOR MINIATURE FOOTBALL GAME. MORRIS EDWARD YABAUS, Cambridge, Mass. Filed Dec. 30, 1927. Serial No. 243,743. 4 Claims. (Cl. 273—94.)



1. An improved indoor football game comprising a football gridiron, said gridiron marked off in yard lines, said yard lines provided with parallel zone lines, a ball composed of a disk, said disk convexed on one side and concaved on the other side, a stylus adapted to move the ball horizontally along the said gridiron when brought in contact with the convexed edge of said ball and to raise the ball in an arc when contacted with the concaved side of said ball, portable goal posts adapted to be erected at each end of said gridiron.

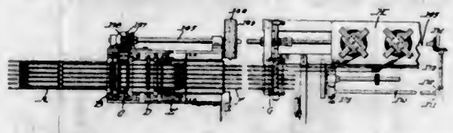
1,680,357. MANUFACTURE OF GLASSWARE. PIERRE ARBEIT, Paris, France, assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Apr. 24, 1925, Serial No. 25,573, and in France May 1, 1924. 8 Claims. (Cl. 49—77.)

1. The glass-working method which comprises periodically applying a gathering implement to the surface of a stationary supply of molten glass, and, in the intervals between such gathering operations, directing a flame upon the region of the glass surface where said gathering takes place, to reheat such portion of the glass as may be chilled by contact with said gathering implement.



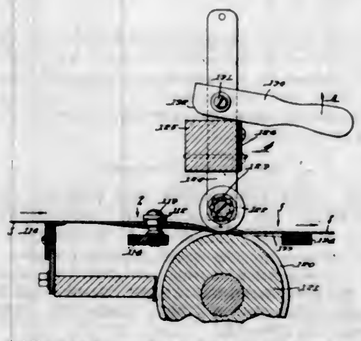
8. In combination with a container for molten glass having a work opening above the glass level for the reception of a gathering implement, a door for the opening, said door arranged to be opened and closed at each gathering operation, means for applying a heating medium to the surface of the glass near the opening, and means operated in synchronism with the opening or closing of the door for regulating the application of the heating medium.

1,680,358. MACHINE FOR MAKING FIBER REED. EARL F. BALDWIN and FRANK E. WOODS, Gardner, Mass., assignors to American Fibre Corporation, Gardner, Mass., a Corporation of Massachusetts. Filed Mar. 25, 1926. Serial No. 97,468. 11 Claims. (Cl. 154—1.)



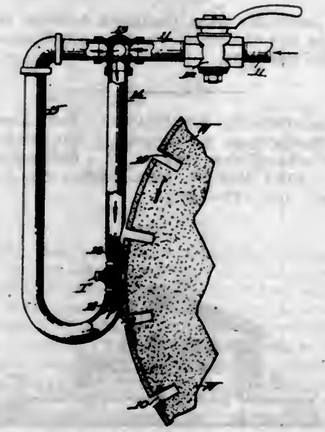
1. A machine for making fiber reed having, in combination, a folding device, means for pressing the folded fiber, an unfolding device, means to gum the unfolded fiber, a refolding device, and a repressing mechanism.

1,680,359. FOLDING AND PRESSING MECHANISM. EARL F. BALDWIN and FRANK E. WOODS, Gardner, Mass., assignors to American Fibre Corporation, Gardner, Mass., a Corporation of Massachusetts. Filed Mar. 25, 1926. Serial No. 97,470. 5 Claims. (Cl. 154—1.)



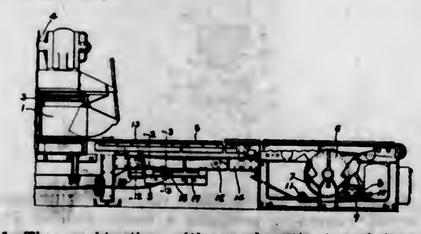
5. A folding and pressing mechanism which comprises folding rolls loosely mounted on adjacent parallel axes, one of said rolls being grooved and the other of said rolls formed with a relatively thin flange projecting into the groove of the first mentioned roll, means to draw a strip of gummed and sticky fiber between said rolls, said latter means comprising a grooved driven roll and a freely rotatable presser roll having a portion projecting into the groove of said driven roll and effective to compress the folded fiber therein to the full width of the groove, and means for pressing said presser and driven rolls together, and additional means for manually separating said freely rotatable roll from said driven roll and for holding the separated roll in raised position.

1,680,360. LUBRICATING DEVICE FOR GRINDING MACHINES. JOHN BATH, Worcester, Mass. Filed Apr. 23, 1923, Serial No. 633,989. Renewed Feb. 15, 1928. 5 Claims. (Cl. 51—267.)



1. In a grinding machine, a grinding wheel, a lubricant conveying pipe extending downward substantially in the plane of rotation of said wheel to a point directly above the point of contact of the wheel with the work, a second lubricant conveying pipe extending upward substantially in the plane of rotation of said wheel to a point directly below the point of contact of said wheel with the work, whereby converging streams of lubricant are delivered to the wheel and work at the cutting point, and means to control the flow of lubricant from the two pipes and vary that of one relative to the other.

1,680,361. CULLET DUMP FOR LEERS. THOMAS E. BEACH, Baltimore, Md., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Dec. 19, 1927. Serial No. 241,009. 4 Claims. (Cl. 49—47.)



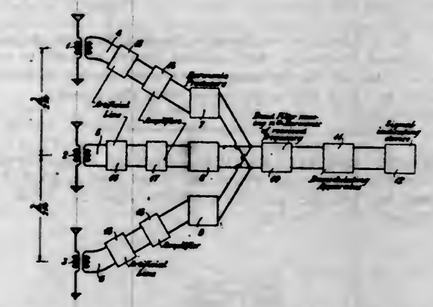
1. The combination with an elongate tunnel leer for annealing glassware, an endless flexible belt for conveying the ware therethrough, an open ware cooling and sorting table over which said belt travels, and driving means for said belt, of an S-turn in the return strand of said belt beneath said sorting table, the upper loop of the S being directed toward the direction of motion of said strand, and a receptacle for catching any cullet dumped from said strand located beneath said upper loop.

1,680,362. FLEXIBLE CLOSURE. RALPH H. BINNS, Pittsburgh, Pa., assignor of two-sevenths to Edward H. Binns, Pittsburgh, Pa. Filed Feb. 18, 1925. Serial No. 10,074. 12 Claims. (Cl. 24—205.)



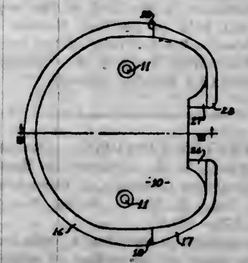
12. A slider for separable fasteners of the class described said slider having a pull device pivoted thereto to swing freely about an axis transverse to the path of movement of the slider, said pull device being provided with a stop element engageable with a fixed part of the slider to limit swing of the pull device in one direction.

1,680,363. DIRECTIVE ANTENNA. RALPH BOWN, Maplewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 13, 1924. Serial No. 749,799. 6 Claims. (Cl. 250—11.)



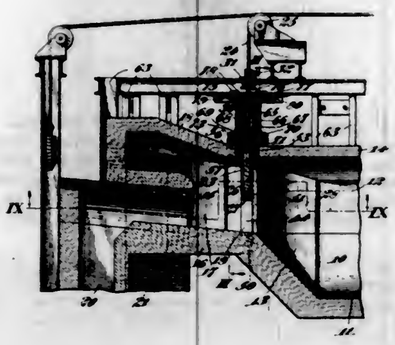
1. In a system for changing phase differences by frequency conversion the combination with an antenna array for receiving waves of length λ the distance between adjacent antennæ being equal to $r\lambda$ of a plurality of connecting circuits individual to and connected with the said antennæ all of said circuits being of the same length electrically, an harmonic producer individual to and connected with each of said connecting circuits, and a common translating circuit connected with the said connecting circuits and having frequency selecting device to transmit therethrough only a predetermined harmonic of those produced in each of said connecting circuits.

1,680,364. DENTAL FLASK. WALTER J. CLARK and WILLIAM M. ROMINE, Wichita, Kans. Filed Aug. 22, 1927. Serial No. 214,732. 2 Claims. (Cl. 18—33.)



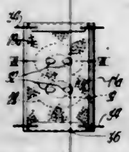
1. In a dental flask, a top member, a base member and a composite central member comprising a forward and rear pair of elements in separable relationship, and false floor elements carried above the base member.

1,680,365. REGENERATIVE OPEN-HEARTH FURNACE. STEWART J. CORT, Bethlehem, Pa.; TIMOTHY BURNS, Buffalo, N. Y.; and ROBERT S. A. DOUGHERTY and CHARLES E. LEHR, Bethlehem, Pa. Filed Sept. 24, 1925. Serial No. 58,268. 4 Claims. (Cl. 122—6.)



1. In a regenerative furnace, in combination, a pair of opposed buckstays, water-cooled beams secured to opposite sides of the buckstays, and water-cooled members having key and slot connections with the beams.

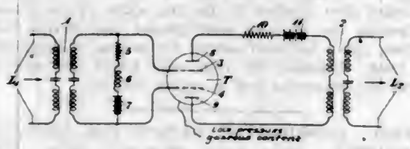
1,680,366. SIGNAL DEVICE. SAMUEL JAMES CREW, Yarraville, Victoria, Australia. Filed May 6, 1926, Serial No. 107,242, and in Australia June 23, 1925. 1 Claim. (Cl. 40—133.)



A sign indicator for use in signs, including a sign plate formed with apertures arranged to simulate characters and a strip of perforated backing material, said sign plate and perforated backing material being each made up of a series of sections, the sections of the sign plate being each provided at opposite edges with inturned vertical edge portions of hook formation designed to interengage with corresponding edge portions of adjoining sections, the perforated backing material sections being adapted for attachment to the back of the respective sign plate sections and held in position thereon by bending the upper and lower edge portions of the respective sign plate sections rearwardly against the corresponding sections of the perforated backing material.

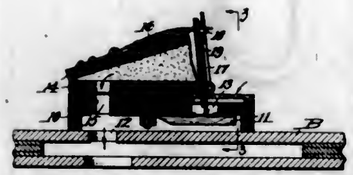
1,680,367. REPEATER CIRCUITS. CHARLES S. DEMAREST, Ridgewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 7, 1922. Serial No. 573,293. 4 Claims. (Cl. 179—171.)

1. A repeater system comprising a tube having a gaseous content the state of ionization of which will vary in direct proportion to the potential to which it is subjected, a pair of electrodes in said tube between which is applied a potential varying in accordance with signal currents coming in over said system, and a second pair of electrodes connected to an output circuit of said system, the current in said output circuit varying in accordance with the incoming signal currents, said first mentioned



pair of electrodes being positioned between said second mentioned pair of electrodes and being independent of any connection therewith.

1,680,368. TENSION REGULATOR. JOHN ALFRED DOUGLAS, Woodside, N. Y., assignor to Auto Pneumatic Action Company, New York, N. Y., a Corporation of New York. Filed May 20, 1926. Serial No. 110,564. 3 Claims. (Cl. 137—153.)



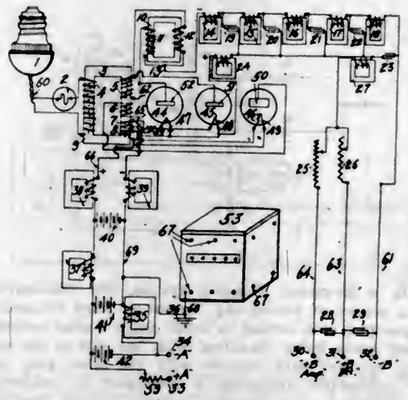
1. A tension regulator for use in connection with an air pump, comprising a pneumatic having its movable leaf exposed to the tension, a spring for distending the pneumatic, a spill valve for admitting air, and a yielding connection between the movable leaf of the pneumatic and spill valve.

1,680,369. METHOD OF MAKING COMPOUND STOCK. JAMES J. DUGAN, Wilmington, Del. Filed Apr. 9, 1925. Serial No. 21,871. 2 Claims. (Cl. 29—180.)



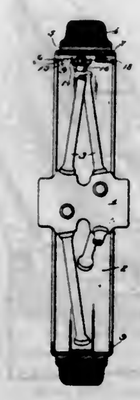
1. The method of making piston ring stock of rectangular section comprising providing a bronze member with an angular shaped dovetail and a steel member with a substantially parallel sided channel adapted to fit over said dovetail, the outer surface of said steel member being of such shape that when the side walls of said steel member are bent without substantial flowing action into engagement with the sides of said dovetail, the outer surface of said steel member without any additional substantial finishing operation forms part of the desired outer contour of the finished product.

1,680,370. RADIO POWER-SUPPLY UNIT. PHILIP E. EDELMAN, Chicago, Ill. Filed Mar. 23, 1925. Serial No. 17,489. 4 Claims. (Cl. 250—27.)



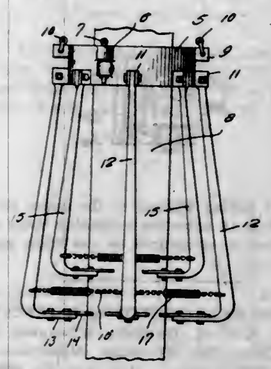
1. A radio power supply unit comprising a transformer, means to connect said transformer to a source of alternating current, a plate current supply fed by said transformer, a series cascaded filter connected to said plate current supply and including adjustable series resistances to adjust the output potential thereof and to prevent the sudden discharge of current therefrom, a filament current supply fed by said source of alternating current, and a metallic container for enclosing said plate and filament current supplies and grounded to one of said supplies.

1,680,371. LOCKING DEVICE FOR WHEEL-RIM-EXPANDING WEDGE. ERNEST E. EINFELDT, Davenport, Iowa, assignor, by mesne assignments, to French & Hecht, Inc., Davenport, Iowa, a Corporation of Iowa. Filed Dec. 24, 1926. Serial No. 156,772. 4 Claims. (Cl. 301—16.)



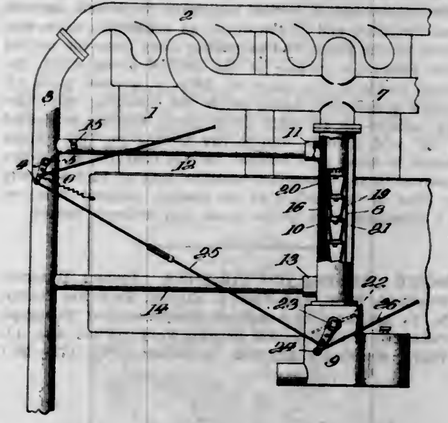
1. In combination with a split wheel rim having on its ends wedging surfaces and adapted to be expanded to seat within a tire ring, said ring being provided with sloping faces, an expanding wedge seated between said wedging surfaces, and a wedge locking device attached to the wedge and adapted to bear on said sloping faces and thereby resist the backing out movement of the wedge.

1,680,372. PILE SCRAPER. LOREN C. FENN, Chinook, Wash. Filed July 5, 1927. Serial No. 203,522. 5 Claims. (Cl. 15—236.)



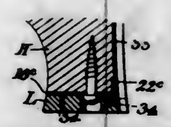
2. In a device of the class described, a plurality of scrapers arranged in circular formation in overlapping relation and means connecting said scrapers yieldably inducing the convergence thereof.

1,680,373. INTAKE MANIFOLD AND HEATING-MEDIUM CONTROL FOR INTERNAL-COMBUSTION ENGINES. JACOB RICHARD FRANCIS, Flint, Mich. Filed Jan. 18, 1922. Serial No. 530,022. 1 Claim. (Cl. 123—122.)



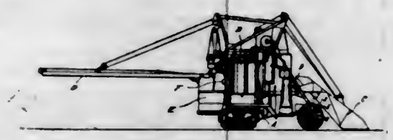
The combination with an internal combustion engine having an exhaust passage, intake passage connected thereto, of a charge forming device connected to said intake passage having a throttle valve and provided with an annular heating chamber, said intake passage being provided with a plurality of annular chambers provided with inlets and outlets, a heater for heating said passages, pipes connecting said exhaust passage to said heaters, a pipe connecting the exhaust passage to said heating chamber surrounding the mixing chamber of said charge forming device being provided with a valve, a valve disposed in said exhaust passage, a connection between said valves and said throttle valve and an air heater disposed in said exhaust passage on the engine side of said valve for supplying warm air to said charge forming device.

1,680,374. HEEL-LIFT-ATTACHING MEANS. BENJAMIN GILOWITZ, New York, N. Y., assignor of one-half to Harry Aronstam, Bronx, New York, N. Y. Filed Nov. 9, 1925. Serial No. 67,904. 4 Claims. (Cl. 36—34.)



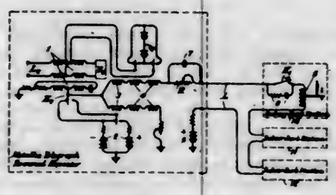
3. A heel lift having secured to the upper side thereof near its front end an upwardly extending sheet of flexible material adapted to be secured to the front side of the heel.

1,680,375. CONCRETE MIXING AND DISTRIBUTING MACHINE. ERIC O. HAMEEN, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 22, 1926. Serial No. 96,573. 1 Claim. (Cl. 214—17.)



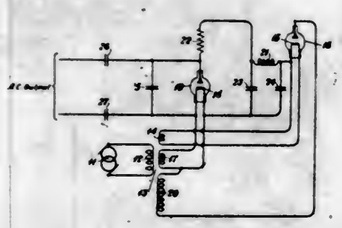
In a paving machine, the combination of a rotary concrete mixing drum, a portable frame supporting the drum, a charging skip for delivering material into the drum at one end, a bucket to receive the mixed concrete from the other end of the drum, an adjustable boom supported by the frame and extending away from the mixing drum above the surface of the ground along which the bucket moves to the place of delivery, a cross piece extending across the frame below the charging skip, casings secured to the said cross piece, springs supported in the said casings, and a bar resting on the springs adapted to serve as a bumper for the charging skip when it moves to its lowermost position, and to hold it above but close to the surface of the ground, whereby it serves as a counterbalance to the boom and delivery bucket.

1,680,376. TELEGRAPH CIRCUITS. JOSEPH HERMAN, Westfield, N. J., and FRED J. SINGER, Rockville Center, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 11, 1927. Serial No. 212,216. 4 Claims. (Cl. 178—59.)



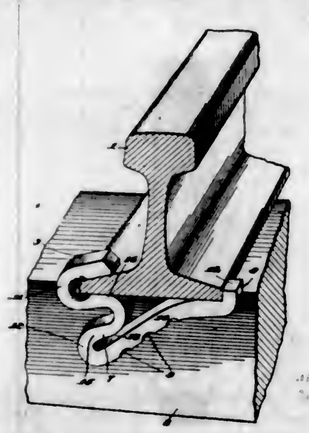
1. In an electrical signaling system a circuit adapted to accommodate both polar signals and open-and-close signals, and correcting devices in said circuit to make the wave shapes of both types of said signals approximately alike.

1,680,377. ALTERNATING POTENTIAL GENERATOR. WILLIAM H. T. HOLDEN, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 17, 1924. Serial No. 750,492. 3 Claims. (Cl. 250—1.)



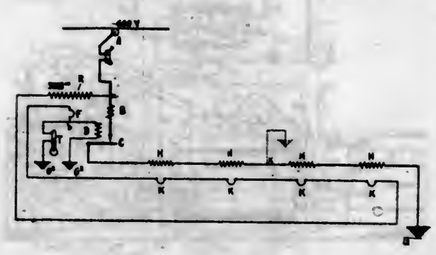
1. In a frequency changing system, the combination with a source of alternating current of fixed frequency, of a gas filled tube having an anode and a heated cathode, the said anode being connected with one side of the said source, and the said cathode with the other side, the latter connection including a condenser of relatively large capacity to be charged by the rectified impulses produced by the said tube, a second gas filled tube having an anode and a heated cathode effectively connected across said condenser, the anode connection including an impedance, a second condenser bridged across the electrodes of the second tube, and an output circuit connected with the said second condenser, the value of the said impedance being such that the voltage drop therethrough will stop the discharge of the said second tube when the charge taken by the said second condenser reaches a predetermined value, whereby the frequency of the oscillations is controlled.

1,680,378. RAILWAY-RAIL ANCHOR. JACOB A. HYLE, Atlantic City, N. J., and CLARENCE R. KEATLEY, Los Angeles, Calif., assignors to Continental Railway Supply Corporation, a Corporation of Delaware. Filed Jan. 7, 1928. Serial No. 245,166. 5 Claims. (Cl. 238—330.)



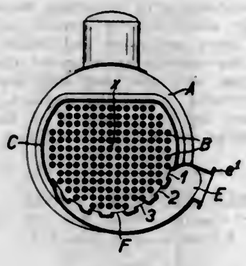
1. A single piece rail anchor comprising a metallic bar formed with a jaw member, and downwardly extended body portion having a thinner portion formed between its upper and lower points, and an outwardly extended arm portion terminating with an upright outer end, said arm portion being provided with a plurality of depressions intermediate its length.

1,680,379. ELECTRIC HEATING SYSTEM. LEE P. HYNES, Albany, N. Y., assignor, by mesne assignments, to Consolidated Car-Heating Company, Inc., Albany, N. Y., a Corporation of New York. Filed Dec. 6, 1924. Serial No. 754,333. 7 Claims. (Cl. 219—20.)



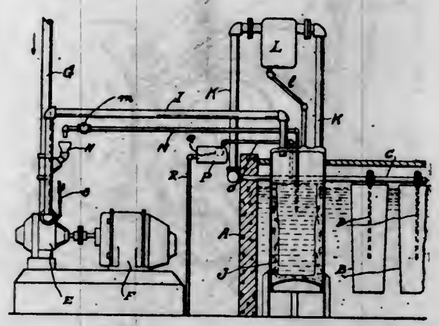
1. An electric heating system comprising an electric heater, a circuit-closing switch therefor, a magnet controlling said switch, a circuit for said magnet shunting the heater with a device adjacent to the heater and responsive to excessive heat therein which controls the said magnet together with a thermostat responsive to the temperature of the apartment heated and also controlling the said magnet.

1,680,380. HORIZONTAL WASTE-GAS STEAM BOILER. GOTTLIEB JAHN, Kiel, and ARTHUR RUNKWITZ, Elenschenhagen, near Kiel, Germany, assignors to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel-Gaarden, Germany. Filed Apr. 3, 1926, Serial No. 99,534, and in Germany Aug. 13, 1925. 1 Claim. (Cl. 122—7.)



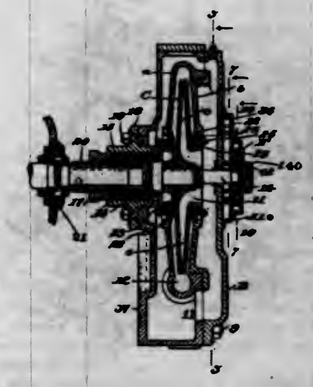
A horisontal waste gas steam boiler, comprising heating tubes extending from one head wall of the boiler to the other, an intake chamber arranged on one of the head faces of the boiler so as to communicate with the heating tubes, a waste gas distributing chamber arranged to partly surround the intake chamber, means for introducing a current of waste gas into the distributing chamber, and nozzles in the shell of the intake chamber for establishing communication between the distributing chamber and the intake chamber and breaking up the waste gas current into a plurality of divisional currents, the said nozzles being arranged to extend through the shell of the intake chamber at angles different from one another in such a manner that the nozzles impart to the divisional currents substantially concentric circular movements each of different radius in the intake chamber and thereby effect a uniform distribution of the waste gas over the entire head face of the boiler.

1,680,381. APPARATUS FOR SUPPLYING DEHUMIDIFIED AIR TO ICE-MAKING PLANTS. IRVING C. JENNINGS, South Norwalk, Conn. Filed Mar. 13, 1925. Serial No. 15,416. 10 Claims. (Cl. 62—159.)



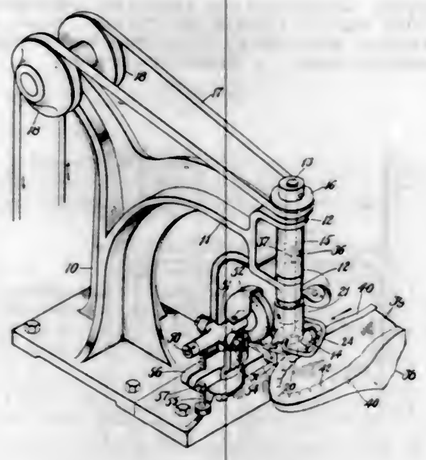
1. The combination of an ice making plant comprising a tank for containing a cooling medium such as brine, ice cans therein, air supply tubes extending into the ice cans, and means for supplying air to the tubes, consisting of a hydro-turbine pump connected to said tube for compressing the air, and means for cooling the liquid that is used in the pump.

1,680,382. SELF-PRIMING CENTRIFUGAL LIQUID PUMP. IRVING C. JENNINGS, South Norwalk, Conn. Filed Mar. 25, 1925. Serial No. 18,275. 7 Claims. (Cl. 103—113.)



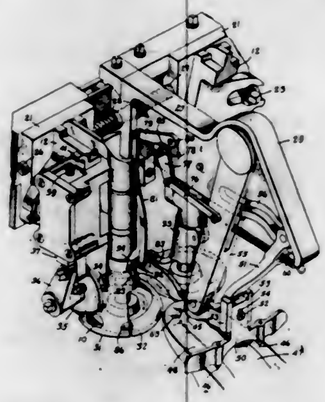
1. A self priming centrifugal pump consisting of a body, a head secured thereto, a separator chamber formed therein, a rotary impeller, and a hydro-turbine air pump secured on the head and connected to draw from the space between the body and the head and discharge to the separator chamber.

1,680,383. SHOE-TRIMMING MACHINE. BERNHARDT JORGENSEN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 6, 1923. Serial No. 679,040. 24 Claims. (Cl. 12—83.5.)



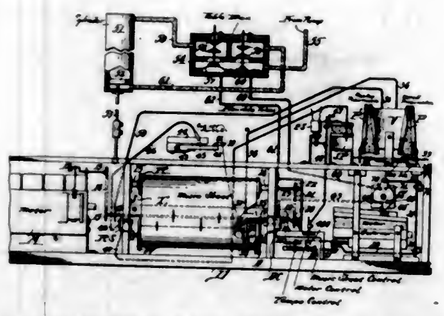
1. A machine of the character described, comprising a rotary disk-knife arranged to trim lumps from the overdrawn marginal portion of an upper lying on the insole of a lasted shoe, and a shield arranged in contiguous relation to the body of the knife to bear on the trimmed part of said marginal portion.

1,680,384. TRIMMING MACHINE. BERNHARDT JORGENSEN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 10, 1924. Serial No. 685,381. 43 Claims. (Cl. 12—83.5.)



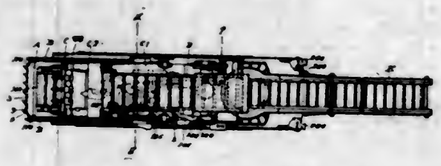
1. A machine of the character described comprising cutting means arranged to trim surplus material projecting from a convex surface, said means being regulatable whereby its effective shape is variable and approximately conformable to the convexity of said surface.

1,680,385. AUTOMATIC MECHANISM FOR OPERATING DRAWERS OF AUTOMATIC MUSICAL INSTRUMENTS. HUBERT J. LA JOIE, New York, N. Y., assignor to Auto Pneumatic Action Company, New York, N. Y., a Corporation of New York. Filed Oct. 4, 1926. Serial No. 139,259. 9 Claims. (Cl. 84—116.)



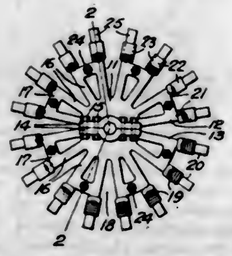
1. In an automatic musical instrument, the combination of a slidable drawer, music sheet manipulating mechanism carried by said drawer, and automatic mechanism mounted on said instrument and connected to said drawer to open and close the same.

1,680,386. MINING MACHINE. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Aug. 7, 1917, Serial No. 184,946. Renewed Dec. 19, 1924. 32 Claims. (Cl. 262—9.)



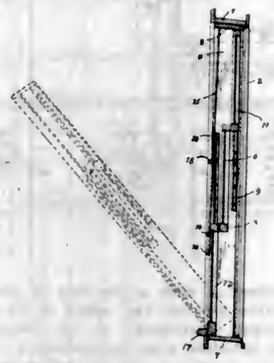
1. In a machine for cutting, breaking down and loading coal, the combination of a carriage movable relative to the coal body, simultaneously operable cutting mechanism, breaking down mechanism and loading mechanism mounted upon the carriage to be moved therewith into operative relation with the coal, said breaking down mechanism comprising cooperating pressure exerting devices and impact devices adapted to be simultaneously actuated to engage the same working face to dislodge the coal.

1,680,387. BLEACHERY REEL. JOHN J. LYTH, Valleyfield, Quebec, Canada. Filed Nov. 17, 1924. Serial No. 750,435. 6 Claims. (Cl. 242—115.)



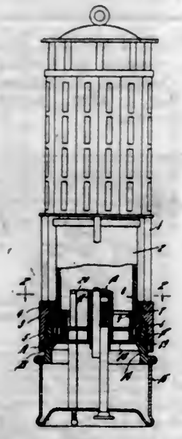
1. A device of the class described comprising a pair of similar spiders each having an even number of arms, rim members connecting the arm in pairs adjacent their free extremities, members connected between corresponding arms of the two spiders, and bolts passing through the rim members intermediate the arm and clamping said members between the spiders.

1,680,388. WINDOW. FRANK W. MCLEAN, Shreveport, La. Filed Sept. 30, 1926. Serial No. 138,734. 2 Claims. (Cl. 20—45.)



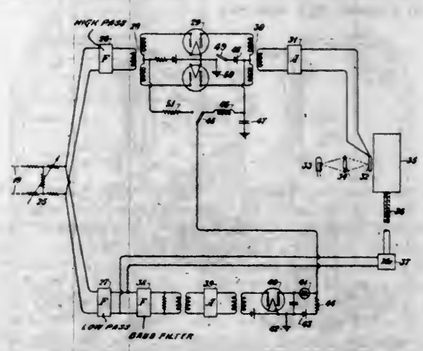
1. The combination with a window frame, of a sash frame fitting closely within the window frame and resting at its lower end upon the sill of the window frame and adapted to rock forwardly upon the same to be withdrawn from the window frame, said lower end of the sash frame being wholly detached from the window frame, a latch secured upon the window frame and engaging the sash frame to releasably secure the sash frame within the window frame, and a plurality of sashes carried by and within the sash frame.

1,680,389. LAMP. EDWARD P. MCOLVIN, Wolf Summit, W. Va. Filed Apr. 22, 1925. Serial No. 25,082. 1 Claim. (Cl. 240—18.)



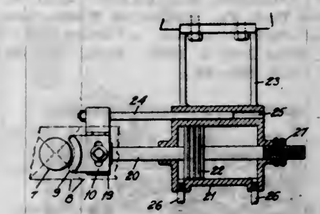
In a safety miner's lamp, a fount, an annular top member therefor exteriorly threaded adjacent its upper end, a centrally arranged partition in said top member, a wick tube rising from said partition, a barrel threaded onto said top member, an annulus threaded into the upper end of said barrel, and including an inwardly directed continuous flange constituting a support for the globe of the lamp, a sleeve arranged between said annulus and said top member and having an upwardly directed flange engaging the flange of said annulus, a centrally located partition within said sleeve, an extinguishing tube supported by said partition and receiving said wick tube, and a gauge ring surrounding said sleeve and reposing upon the partition of said top member, said top member having air inlet openings.

1,680,390. PICTURE-TRANSMITTING SYSTEM. HARRY NYQUIST, Millburn, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 23, 1925. Serial No. 4,353. 17 Claims. (Cl. 178—7.)



1. In a signaling system employing current of two components, one for transmitting message signals, the other for synchronizing, the method of keeping the signal current at proper energy level, which consists in automatically adjusting it by the variation of the synchronizing component.

1,680,391. MOLD-CHARGE GUIDE FOR GLASS-FEEDING APPARATUS. KARL E. PEILER, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Dec. 3, 1923. Serial No. 678,130. 22 Claims. (Cl. 49—55.)



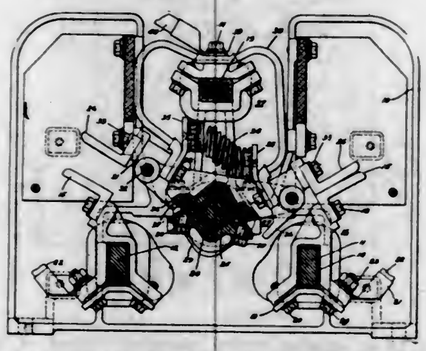
1. In combination with a glass feeding mechanism arranged to deliver molten glass through a downwardly opening outlet in a succession of pendant masses, a pair of shear blades arranged to meet periodically beneath said outlet and in axial alignment therewith to sever mold charges from said masses, and a guide mounted independently of said shear blades and located only at the side of the path of travel of said charges opposite to the side from which the lower shear blade approaches the said path of travel of the charges, for opposing the deflection of a charge in its path of travel by the action of said shear blades.

22. In glass feeding apparatus, a severing device having a cutting edge movable transversely through a freely hanging mass of molten glass to sever a mold charge therefrom, and a guide independent from said severing device and movable at the side of the axial line of said suspended mass substantially opposite to said cutting edge to and from position to prevent lateral "batting" of the mold charge at the time of its severance.

1,680,392. COMPOSITION OF MATTER FOR USE AS FUEL. HUGH S. REID, Shawinigan Falls, Quebec, Canada, assignor to Canadian Electro Products Company, Limited, Montreal, Canada. Filed Mar. 30, 1925. Serial No. 19,543. 10 Claims. (Cl. 44—9.)

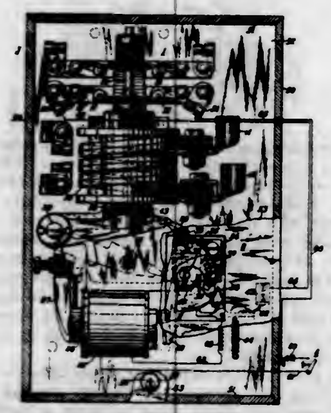
1. A composition of matter for fuel containing liquid hydrocarbon fuel and an acetic aldehyde having acetylene gas dissolved therein.

1,680,393. PNEUMATIC REVERSING SWITCH. LYNN G. RILEY, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 4, 1925. Serial No. 27,937. 10 Claims. (Cl. 200—6.)



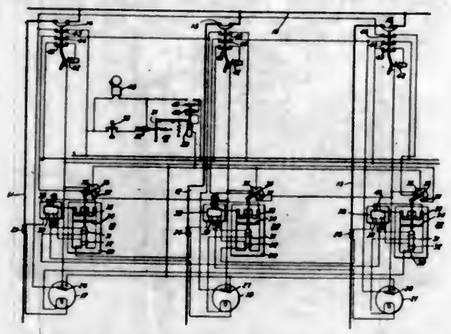
1. In a reverser, in combination, a plurality of contact members disposed for oscillatory movement, stationary contact members disposed to receive the movable contact members, and means for oscillating the movable contact members comprising a cross-head disposed for reciprocatory movement and means co-operative to oscillate the contact members when the cross-head is actuated, said contact-oscillating means being adapted to permit movement of the cross-head independently of the contact members.

1,680,394. CONTROL APPARATUS. KARL A. SIMMON, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 7, 1920. Serial No. 394,430. 11 Claims. (Cl. 200—89.)



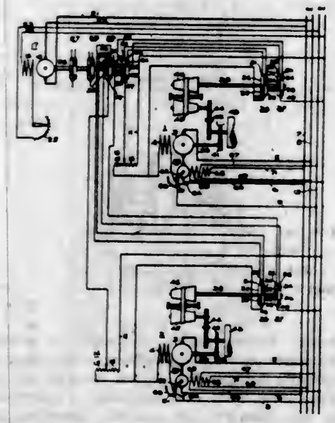
1. The combination with a relay, of means for locking the relay to prevent operation and means manually operable to release the relay, and means for limiting the number of operations of the relay to any predetermined number.

1,680,395. RELAY SYSTEM. HARVEY P. SLEEPER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 11, 1922. Serial No. 551,448. 5 Claims. (Cl. 175—294.)



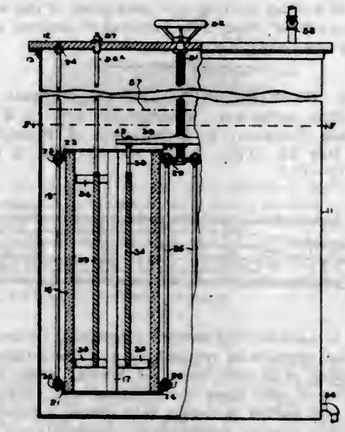
1. The combination with a plurality of parallel-connected conductors between two points of an electrical system and circuit interrupters for the respective conductors, of an induction relay for selectively controlling either interrupter depending upon the occurrence of a fault thereon affecting a predetermined ratio between the currents normally traversing the conductors, said relay comprising a controlling member movable in two directions, two differentially-acting windings, a winding co-operating with the differential windings to actuate the movable member in one direction or the other depending upon the degree of energization of the differentially-acting windings and means for energising the said winding in accordance with the variation from a predetermined ratio of the currents traversing the pair of conductors, said means serving also to introduce an electrical angular displacement between the magnetic flux established by the said winding and the flux established by the differentially-acting windings, the fluxes co-operating to effect movement of the movable member, in a time interval dependent upon the degree of energization of said winding.

1,680,396. REGULATOR SYSTEM. STEPHEN A. STAEGE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 4, 1925. Serial No. 27,671. 6 Claims. (Cl. 171—312.)



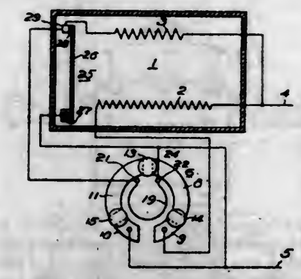
1. In a regulator system, a dynamo-electric machine, means responsive to speed variations of said machine for varying the excitation thereof, and a torque motor responsive to the load upon said machine for varying the excitation thereof, said torque motor having a field winding responsive to the voltage of said machine.

1,680,397. ELECTRIC STEAM BOILER. HANS STRANSKY, Vienna, Austria, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 23, 1926, Serial No. 104,090, and in Austria July 7, 1925. 8 Claims. (Cl. 219—38.)



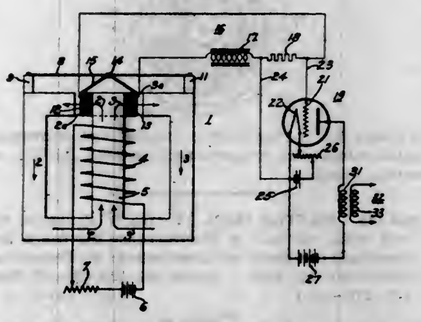
1. In an electrode steam boiler, in combination, a fixed tubular member of insulating material having an open top and bottom, a pair of co-operating spaced electrodes in said tubular member, means embodied in said tubular member for holding one of said electrodes in a predetermined position therein, and means embodied in said tubular member for holding the second electrode in predetermined spaced relation to said first electrode and for permitting it to be moved longitudinally of its length.

1,680,398. TEMPERATURE-CONTROL SYSTEM. IRVIN G. THOMAS, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 7, 1927. Serial No. 231,535. 7 Claims. (Cl. 219—20.)



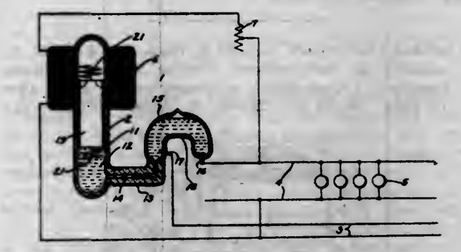
6. In a temperature control system for a body to be heated, in combination, a source of supply of electric energy, a main resistor element in said body to be energized from said source, an auxiliary resistor element in said body and continuously energized from said source, a circuit interrupter for controlling the energization of the main resistor, means connected in circuit with and responsive to current traversing the auxiliary heating element, and thermostatic means responsive to the temperature of said body for shunting said current responsive means when the temperature of the body attains one predetermined value and for rendering said means responsive to said current when the temperature of the body reaches another value.

1,680,399. DISTORTIONLESS DYNAMIC TRANSMITTER. PHILLIPS THOMAS, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 18, 1922. Serial No. 555,271. 10 Claims. (Cl. 178—44.)



1. In an electrical system, a resilient member adapted to vibrate in accordance with the varying intensity of sound waves, means co-operating therewith for translating the resulting fundamental and harmonic frequency vibrations into modulated electromotive forces and a circuit including said source of electromotive forces, a translating device and an inductance device, the ohmic resistance of said circuit being negligibly small as compared with the reactive impedance thereof, whereby the amplitude of the resultant modulated electromotive forces are caused to vary in accordance with the amplitude of said vibrations only.

1,680,400. AUTOMATIC ELECTRIC FLASHER. DAYTON ULERY and DANIEL I. MAYNE, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 28, 1923. Serial No. 648,245. 8 Claims. (Cl. 200—90.)

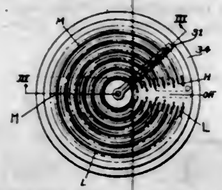


1. In a switch structure, a vessel, a conducting fluid in said vessel, means for causing said fluid to interrupt and close an electrical circuit by changing the level thereof, and means for causing a time lag in the movement of said fluid comprising means for utilizing the surface tension of said fluid and means for controlling the delivery of fluid to the last said means.

1,680,401. CONTROL SYSTEM FOR RADIANT HEATERS. VICTOR G. VAUGHAN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 20, 1923. Serial No. 652,664. 3 Claims. (Cl. 219—34.)

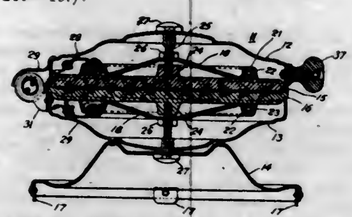
1. The method of controlling the energization of a plurality of radiant electric heating elements, located in superposed, parallel-spaced relation relatively to each other to simulate the action of a radiant gas heater, which

comprises the simultaneous insertion of variable resistors in series-circuit relation with the individual heating elements, the amount of resistance thus inserted being a



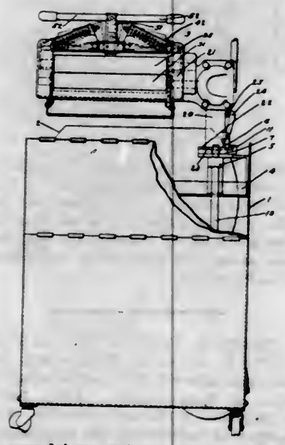
maximum for the top heating element and decreasing in predetermined and proportionate amounts for the other heating elements.

1,680,402. WAFFLE IRON. VICTOR G. VAUGHAN, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 11, 1927. Serial No. 190,430. 2 Claims. (Cl. 219—19.)



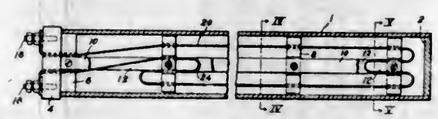
2. In a waffle iron, the combination with a plane baking surface of substantially circular contour, and a casing therefor, of a resilient sheet metal plate shaped to provide an annular groove in one face thereof, a resistor member in said groove, expansively-oxidized electric-insulating material surrounding said resistor to tightly hold it therein, the annular groove being of such diameter to permit the energized resistor to heat the baking surface to a uniform temperature, and a single means for clamping the sheet metal plate against the baking surface and for holding them in the casing.

1,680,403. WRINGER. ALLEN S. WISE, New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 17, 1924. Serial No. 720,529. 3 Claims. (Cl. 68—32.)



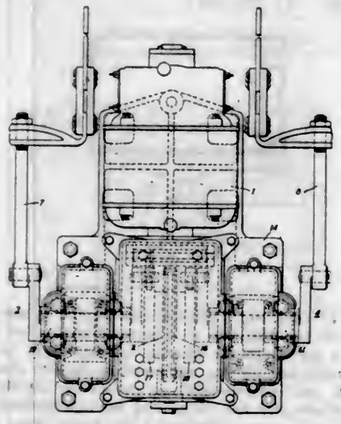
1. In a power-driven wringer, the combination with a vertically-extending power-driven shaft section, a clutch member mounted on the upper end of the shaft section, a bracket for supporting said power-driven shaft section, a wringer including a frame, a tubular support for the wringer and hinge means pivotally supporting the wringer and tubular support on the bracket and permitting the wringer, frame and tubular support to swing on a horizontal axis from an upper operating position to a lower inoperative position, of a shaft section operatively connected to the wringer and extending through the tubular support, and a gravity-actuated clutch member on the last named shaft section effective to couple the two shaft sections in driving relation upon movement of the wringer, frame and support from their inoperative position to their operative positions.

1,680,404. HEATING UNIT. JAMES C. WOODSON, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 11, 1927. Serial No. 190,415. 3 Claims. (Cl. 219—19.)



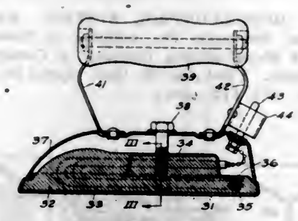
2. An encased heating element comprising a convolution of resistor ribbon and return-bent portions adjacent the ends thereof to provide increased heating areas thereat, a plurality of split discs spaced along said resistor convolution and slotted to receive said ribbon, a tubular casing for said resistor substantially coextensive in length with the length of said convolution and coextensive in internal diameter with the diameter of said discs, a removable closure for an end of said casing, terminal means thereon for the terminals of said ribbon, and means carried by said closure for supporting said discs in spaced relation perpendicular to the area of said casing.

1,680,405. MOTOR-OPERATED CIRCUIT INTERRUPTER. WALTER M. AUSTIN, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 12, 1923. Serial No. 638,514. 7 Claims. (Cl. 200—92.)



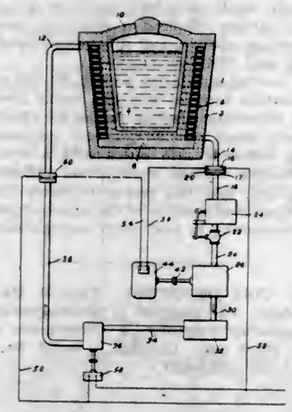
1. In combination, a ratchet, a crank arm, a pawl carried by said crank arm for co-operation with said ratchet, and means having a cam surface, in the path of travel of said pawl and a second member disposed at a different point in the travel of said pawl for controlling the co-operation between said pawl and said ratchet.

1,680,406. ELECTRIC IRON. CHRISTIAN B. BACKER, Brooklyn, N. Y.. Filed Oct. 20, 1927. Serial No. 227,444. 5 Claims. (Cl. 219—25.)



4. In an electric iron, in combination, a mass of cast metal, a metal-encased tubular heating element embodying a plurality of return-bent portions located in two different planes embedded in said mass and a sheet-metal top plate, of inverted cup-shape, having openings in the rim portion through which the upper portions of the tubular heating element extend to be held thereby.

1,680,407. INDUCTION FURNACE. PORTER H. BRACE, Wilkinsburg, Pa.. assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 29, 1927. Serial No. 216,153. 6 Claims. (Cl. 266—1.5.)

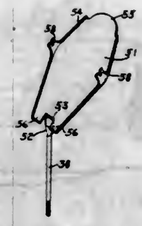


1. In an induction furnace, the combination with a water-cooled inductor coil, of means for converting the heat energy of steam effluent from said coil into electrical energy, and means for returning said electrical energy to the electrical circuit of said inductor coil.

1,680,408. CONDENSATION PRODUCT AND METHOD OF MAKING THE SAME. ARTHUR L. BROWN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 23, 1922. Serial No. 538,748. 15 Claims. (Cl. 260—4.)

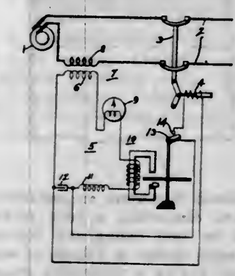
1. A resinous phenolic condensation product resulting from reacting a mixture consisting of a phenol, a substance containing an active methylene group and China wood oil.

1,680,409. TELEPHONE DEVICE. FRANK CONRAD, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 7, 1923. Serial No. 679,075. 29 Claims. (Cl. 179—108.)



8. In a device of the class described, an armature of magnetic sheet material having a substantially flat body and up-turned edges.

1,680,410. RELAY-TRIPPING SYSTEM. LESLIE N. CRICHTON, Edgewood, and LAWRENCE R. GOLLADAY, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 24, 1921. Serial No. 472,151. 1 Claim. (Cl. 175—294.)



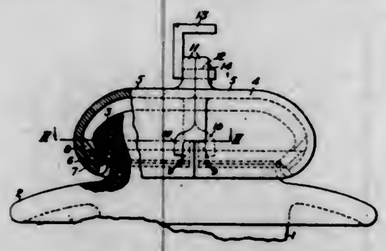
In an electric circuit, the combination with a circuit-interrupter provided with a trip coil controlling said circuit, of a current transformer connected in said circuit, a relay, a winding for said relay and a condenser connected in series with the secondary winding of said transformer, said series circuit being resonant at the normal frequency, and means whereby said relay connects the trip coil of said circuit-interrupter in shunt to said condenser upon the occurrence of abnormal conditions in said circuit to interrupt the same.

1,680,411. INSULATOR CONNECTER. GEORGE M. EATON, Pittsburgh, and EDWARD E. ROSE, Edgewood, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 15, 1919. Serial No. 310,974. 7 Claims. (Cl. 173—318.)

1. A suspension insulator device, for an insulating member embodying a terminal projection having an enlarged outer end, comprising a longitudinal-tension terminal structure longitudinally divided into separable interchangeable sections for longitudinal interlocking relation to said end and having preshaped rigid integral transverse interlocking portions for holding the sections together.

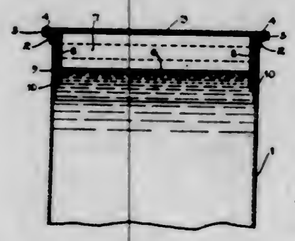
4. The combination with an insulating member embodying a terminal projection having an enlarged outer end.

of a longitudinal tension terminal structure longitudinally divided into separable sections having longitudinal



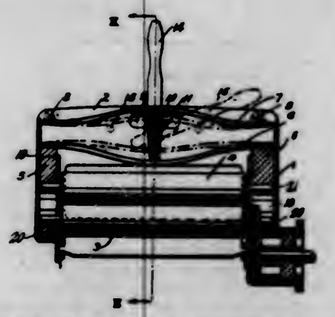
interlocking relation to said end and preshaped rigid integral transverse interlocking portions for holding the sections together.

1,680,412. TANK STRUCTURE. GEORGE M. EATON, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 1, 1922. Serial No. 598,282. 7 Claims. (Cl. 220—85.)



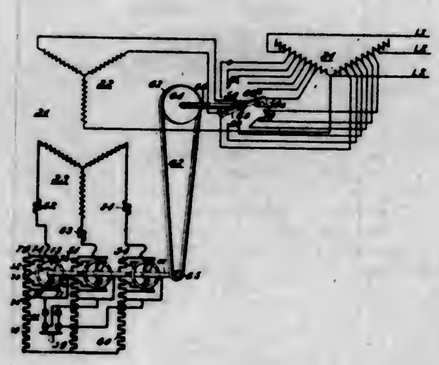
1. A tank adapted to contain an insulating liquid and an inert gas and comprising a body portion, a cover rigidly mounted on said casing and non-movable with respect thereto upon change in volume of said insulating liquid, said cover having a depending flange extending into the tank adjacent to its side wall and partly submerged in said liquid.

1,680,413. WASHING-MACHINE WRINGER. HARRY D. ELSE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 17, 1924. Serial No. 720,537. 3 Claims. (Cl. 68—32.)



1. A wringer comprising, in combination, a frame, a plurality of rolls movably disposed in the frame, a pair of spring plates interposed between the frame and the rolls, and means free from and pivotally disposed between the spring plates and mounted on the frame for expanding them to apply pressure to the rolls.

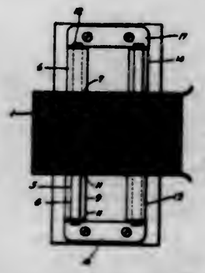
1,680,414. MOTOR-CONTROL SYSTEM. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 17, 1920. Serial No. 404,148. 4 Claims. (Cl. 172—120.)



1. In a control system for oil-well drilling and the like, the combination with an induction motor having a primary and a secondary winding, means for effecting a series of relatively small secondary-circuit resistance changes, means for further effecting a relatively large primary-winding voltage change, and differential-speed means for connecting said first two means.

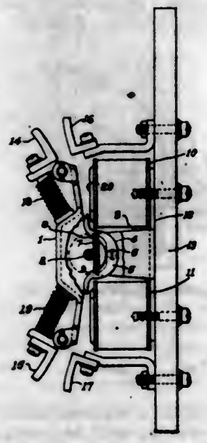
2. In a control system for oil-well drilling and the like, the combination with an induction motor having a primary and a secondary winding, means for effecting a series of relatively small secondary-circuit resistance changes, means for following said series with a relatively large primary-winding voltage change, and differential means connecting said first two means to cause the movement corresponding to said series of changes to equal the movement corresponding to said single voltage change.

1,680,415. COIL MOUNTING. PAUL M. HENOCHSENBERG, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 15, 1925. Serial No. 23,297. 7 Claims. (Cl. 175—350.)



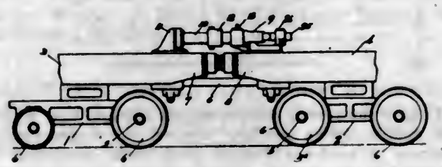
1. In a coil supporting device, a pair of shouldered members positioned with their shoulders in opposite directions, and a coil supported on said members intermediate said shoulders.

1,680,416. MAGNET SWITCH. CHARLES H. HODGKINS, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 22, 1924. Serial No. 687,721. 6 Claims. (Cl. 200—106.)



1. A reversing switch comprising an armature, magnetic means comprising a pair of coils for actuating the armature in either of two directions, means for latching said armature in an intermediate position, said latching means being disposed between said coils and operative in directions corresponding to the armature movement, and means for restoring said armature to said position when said magnetic means is de-magnetised.

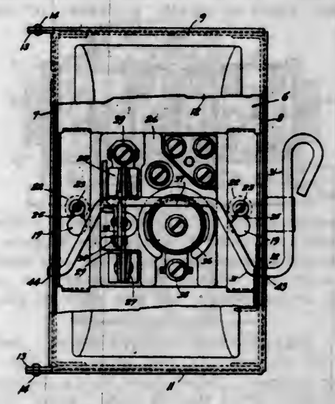
1,680,417. RAILWAY VEHICLE. HAROLD A. HOUSTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 4, 1927. Serial No. 196,429. 9 Claims. (Cl. 105—175.)



1. In a railway vehicle, the combination with a plurality of articulated trucks and means for connecting the trucks, of a centering device comprising a seat mounted on one of said trucks, a yoke mounted on a cooperating truck, and a cam rocker disposed to be interposed between the seat and the yoke.

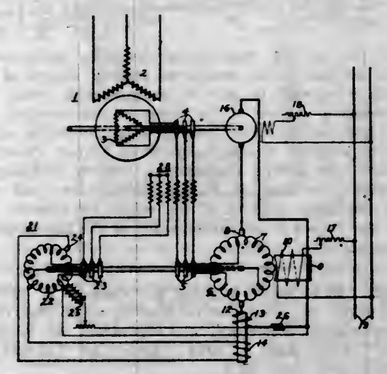
1,680,418. INCLOSED-SWITCH MECHANISM. OLIVER S. JENNINGS and FRED G. VON HOORN, Mansfield, Ohio, assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 25, 1927. Serial No. 201,318. 8 Claims. (Cl. 200—168.)

1. Inclosed current-controlling mechanism comprising a housing, a carrier for a current-controlling device having side flanges fitting between the walls of the housing, and means on the bottom and side walls of the housing



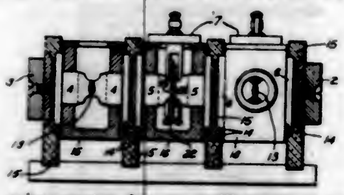
for engaging means on the carrier and flanges when relatively moved longitudinally for preventing withdrawal of the carrier from the housing.

1,680,419. VARIABLE-SPEED SET. ERNST KLOSS, Falkensee, near Spandau, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 30, 1926, Serial No. 105,759, and in Germany July 17, 1925. 9 Claims. (Cl. 171—123.)



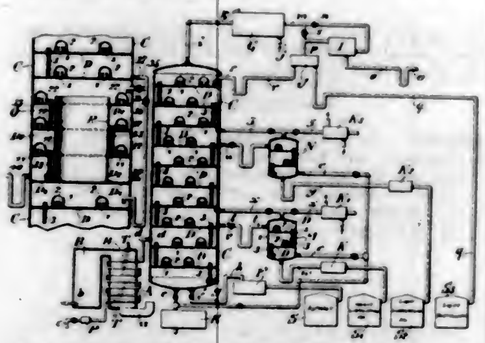
1. The combination with a rotary converter, of means for deriving a current responsive to the unneutralized difference between the alternating current and the direct current of said rotary converter, said means comprising an auxiliary dynamo-electric machine, means for exciting said auxiliary machine in response to the alternating current of said rotary converter, and means for exciting said auxiliary machine in response to the direct current of said rotary converter, the two excitations normally substantially neutralizing each other when the load conditions of the rotary converter are not rapidly changing.

1,680,420. GALVANOMETER. JOSEPH W. LEGG, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Original application filed Sept. 8, 1920, Serial No. 408,954. Divided and this application filed May 25, 1925. Serial No. 32,546. 8 Claims. (Cl. 171—95.)



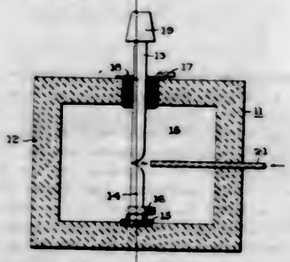
2. A galvanometer for an oscillograph comprising a magnetizable core member, a plurality of pairs of pole pieces disposed between the poles of the core member and having an air gap between the poles of each pair, and insulating means between the said pairs of pole pieces.

1,680,421. FRACTIONAL DISTILLATION. JOSEPH W. LEWIS, Jr., Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 25, 1926. Serial No. 97,202. 4 Claims. (Cl. 196—100.)



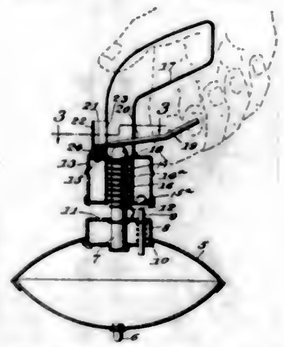
1. In the art of fractionally distilling hydrocarbon oils, the method which comprises passing vapors of the oil counter current to and in contact with reflux oil, withdrawing a portion of the reflux oil intermediate the lightest and heaviest fractions, passing the reflux oil so withdrawn counter current to steam in contact therewith to remove low boiling components, thereby yielding an intermediate fraction of higher flash point, and continuing the other portion of the reflux oil counter current to the vapors in an earlier stage of the fractionating system.

1,680,422. ELECTRIC FURNACE. GEORGE M. LITTLE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 9, 1924. Serial No. 731,050. 5 Claims. (Cl. 266—15.)



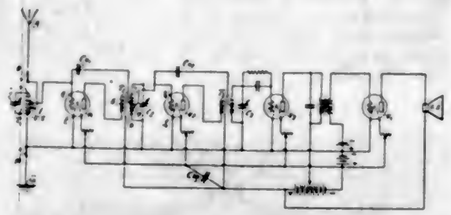
1. In an electric furnace, in combination, a plurality of alined carbonaceous electrodes, means for pressing the abutting ends of said electrodes together continuously, and means for restricting the oxidation of said electrodes, when traversed by an electric current, to substantially their junction.

1,680,423. SPINNING HEAD FOR SPINNING TOPS. FRANK L. LINDSTROM, Bridgeport, Conn. Filed Apr. 26, 1926. Serial No. 104,768. 3 Claims. (Cl. 46—32.)



1. The combination in a spinning device for spinning tops, of a spring actuating head for engagement with a top, a hollow handle secured to said head, a hole in one wall of the handle and a slot in the opposite wall, an operating lever arranged transversely in the handle and pivoted in the hole of the handle and operable in the slot, said operating lever adapted when a top is connected to the head to be moved to engage the stem of the top to move the latter and disengage it from the head.

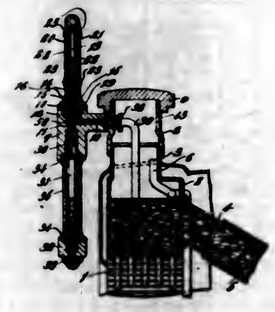
1,680,424. AMPLIFYING SYSTEM. WILLIAM A. MACDONALD, Little Neck, N. Y., assignor to Hazeltine Corporation, Jersey City, N. J., a Corporation of Delaware. Filed Feb. 3, 1926. Serial No. 85,615. 7 Claims. (Cl. 179—171.)



1. In a multi-stage high-frequency vacuum tube amplifier system having coupling between two stages thereof whereby a tendency toward undesirable oscillation is produced in the tube of at least one stage of said system, the method of minimizing the effects of said coupling without substantially reducing the desired voltage amplification of the system, which comprises reducing all fluctuating voltages impressed upon the grid electrode of the tube thus undesirably affected, by reducing the impedance of the input circuit of that tube, and decreasing the step-up ratio between said input circuit and the output circuit of the vacuum tube next preceding, so that the desired signal voltage fluctuations upon said grid are maintained.

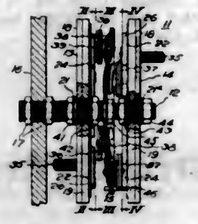
1,680,425. INDICATING DEVICE FOR INTERNAL-COMBUSTION ENGINES. LEWIS A. MAPEL, St. Louis, Mo., assignor to The Automatic Appliance Company, St. Louis, Mo., a Corporation of Missouri. Filed May 18, 1923. Serial No. 639,735. 17 Claims. (Cl. 73—52.)

1. A device for indicating the conditions of a water cooled internal combustion engine provided with a radiator, comprising, a thermometer having a heat responsive element, a casing providing a liquid retaining chamber in which said element is positioned, and a conduit having one end immersed in the water of the radiator and having



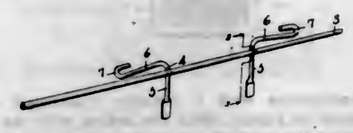
its other end opening into said chamber, said chamber being sealed above the connection of said conduit therewith in order to maintain a circulating column of liquid from the water to said chamber and in thermal contact with said element.

1,680,426. THERMOSTATIC SWITCH. HOWARD D. MATTHEWS, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 23, 1926. Serial No. 104,073. 3 Claims. (Cl. 200—139.)



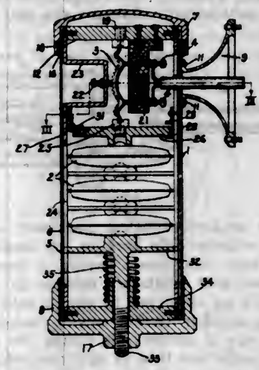
1. In a thermally-actuable switch, in combination, a supporting means, a bimetallic disc loosely mounted on said supporting means, contact bridging members insulatedly mounted on the disc, plates adjustably supported by the supporting means at both sides of the disc, and contact members on said plates alternately engaged by the bridging members.

1,680,427. STRUCTURAL UNIT. ROBERT B. MITCHELL, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich. Filed Aug. 2, 1926. Serial No. 126,646. 2 Claims. (Cl. 72—101.)



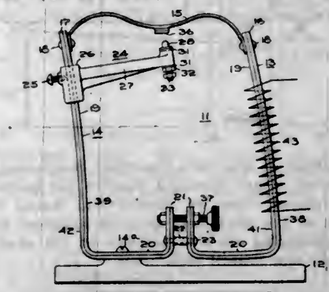
1. An anchoring unit for concrete structures comprising a longitudinal rod of substantial length and a plurality of angled combined anchoring and attaching members disposed transversely of and welded to said longitudinal rod with their angles above the longitudinal rod, said members being disposed in coacting pairs with the arms of the pairs projecting outwardly in a plane approximately parallel with the rod to be bent upwardly for attachment to the part to be anchored, the lower ends of said members constituting anchoring parts adapted to be embedded in a concrete body and having laterally offset portions for embedding in the concrete.

1,680,428. THERMOSTATIC REGULATOR. AUGUST J. MOTTLAU, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 25, 1924. Serial No. 708,915. 3 Claims. (Cl. 200—140.)



1. In a thermostat, a casing, a removable threaded end member therefor, a contact spring and a thermally-responsive actuating means therefor mounted in the casing, adjusting means for the thermally-responsive member comprising the removable end member, a threaded member extending therethrough and engaging the thermally-responsive device, and a resilient member biasing the threaded member into engagement with the thermally-responsive device.

1,680,429. THERMAL RELAY. AUGUST J. MOTTLAU, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 28, 1926. Serial No. 138,189. 4 Claims. (Cl. 200—138.)



1. The combination with a resilient bridging member of substantially sinuous shape, a contact member mounted thereon, a pair of bimetallic members for supporting said resilient member, said bimetallic members being so disposed in operative relation to each other as to deflect in substantially the same direction when subjected to the same ambient temperature variations, and a stationary contact member supported by one of said bimetallic members in operative relation to the other contact member, of means for thermally energizing one of the bimetallic members to cause it to actuate the bridging member to control the engaged and disengaged position of said contact members.

1,680,430. TELEPHONE PLUG. LOUIS G. PACENT, Winfield Park, N. Y., assignor to Pacent Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 17, 1925. Serial No. 9,726. 1 Claim. (Cl. 173—361.)

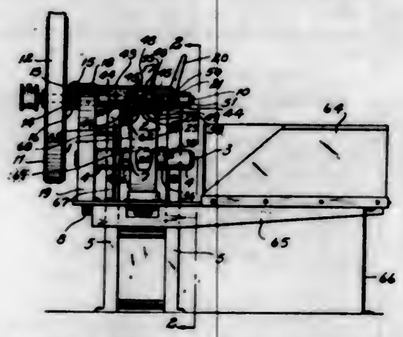
A telephone plug comprising tip and sleeve conducting members adapted to be inserted in a jack, an electrical connector associated with each of said conducting mem-

bers, each of said connectors comprising a substantially flat member having two grooves therein adapted to receive electrical conductors, a threaded member pivotally mounted between said grooves having a nut thereon of substantial size adapted to engage the conductors lying in said grooves, whereby, due to the pivotal mounting, conductors of substantially different size may be securely



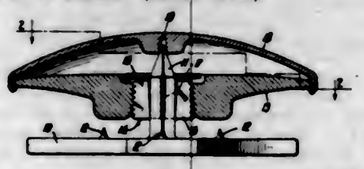
retained, said connectors being positioned so that the flat faces are substantially parallel, an insulating member between said connectors having a recess therein adapted to hold said insulating member in position by cooperating with an upset lug on one of said connectors, said insulating member having means thereon to which a tie member may be secured for taking the strain from the electrical conductors held by said connectors.

1,680,431. RAND BENDING AND MOLDING MACHINE. DENNIS PARKS, St. Louis, Mo. Filed Oct. 20, 1926. Serial No. 142,947. 18 Claims. (Cl. 12—67.1.)



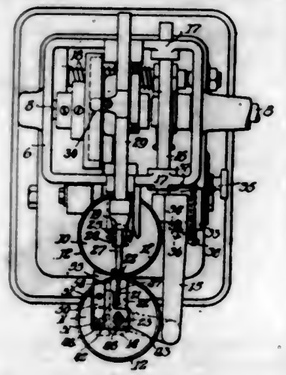
1. A machine of the class described comprising a rotatable carrier, means mounted thereon for receiving a rand strip placed crosswise thereof, and means located in the path of the rand strip as it is advanced by said carrier for engaging the end portions of the rand strip and bending them toward each other.

1,680,432. NECKTIE HOLDER. ROLAND E. PERRIN, Brooklyn, N. Y. Filed Nov. 30, 1927. Serial No. 236,691. 6 Claims. (Cl. 24—105.)



1. A device of the class described, including a back member having a smoothed surface, non-cylindrical pointed stud adapted to be forced through one or more layers of fabric, a front plate, and a collapsible clamping member adapted to telescope on said stud but held against rotation in respect thereto and having tapered threaded engagement with said plate, whereby upon the rotation of the plate, the clamping member may be rigidly secured to said stud.

1,680,433. FUR-SEWING-MACHINE ATTACHMENT. ADOLF SCHWARTZ, Kenosha, Wis. Filed May 20, 1926. Serial No. 110,341. 10 Claims. (Cl. 112—20.)



1. In a gauge of the class described, a plate having an attaching portion, a resilient gauge member mounted on said plate near one end, and means to flex the gauge member to raise or lower the same at its free end..

1,680,434. LOCOMOTIVE STRUCTURE. WILLIAM M. SHEEHAN, St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill., a Corporation of New Jersey. Filed Aug. 19, 1926. Serial No. 130,203. 25 Claims. (Cl. 105—172.)



1. In an articulated locomotive, a cradle at one end, a draft element carrier at the other end, and two castings between and respectively mounting said cradle and carrier and forming the underframe for the locomotive.

1,680,435. CLIP. ALBERT F. SHORE, New York, N. Y. Filed July 5, 1923. Serial No. 649,633. 1 Claim. (Cl. 267—53.)



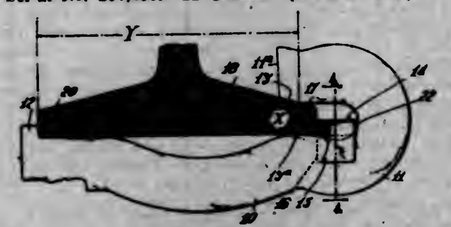
The combination with a multiple leaf-spring, of a yoke member to engage about the spring with the yoke legs engaging the sides of the spring and the connecting portion of the yoke engaging one face of the spring, a bowed bar of resilient material having perforations for the engagement thereof on the legs of said yoke member with the convex surface of the bar in engagement with the spring, the said bar being arranged with serrations extending radially from and about the perforations therein, and nuts threaded on to the ends of the legs of said yoke member to yieldingly draw the yoke member and bar together, said nuts having one face thereof serrated to correspond with the serrations of the bar and co-operate therewith to lock the nuts on the yoke legs.

1,680,436. CLIP FOR LAMINATE SPRINGS. ALBERT F. SHORE, New York, N. Y. Filed Aug. 24, 1923. Serial No. 659,061. 5 Claims. (Cl. 267—53.)



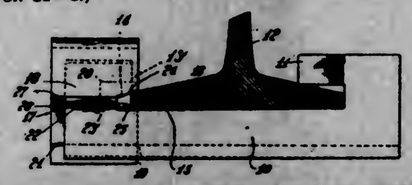
1. The combination with a multiple leaf-spring, of a confining clip therefor, comprising a yoke and a bow-shaped member engaged on the ends of the yoke to engage the spring opposite the connecting portion of the yoke, said member having its bowed face in contact with the spring and being of convex form in cross-section to permit of rocking movement thereof on the spring and said member being adapted to co-operate with the yoke to exert a yielding binding pressure upon the spring leaves, and a rocker bearing member for said clip interposed between the connecting portion of the clip and the spring and anchored in a leaf of the spring to permit of rocking movement of the clip relative to the longitudinal movement of the spring leaves as the spring is flexed.

1,680,437. RAIL ANCHOR. HAROLD G. WARR, Park Ridge, Ill., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed July 20, 1927. Serial No. 207,195. 11 Claims. (Cl. 238—329.)



1. A rail anchor comprising a rail embracing member formed with a jaw portion adapted to be driven into gripping engagement with the top and bottom surfaces of the base portion of a rail, and means carried in the space below the jaw of said member to limit the applying movement thereof, whereby said embracing member may be applied to rails having base flanges of different widths.

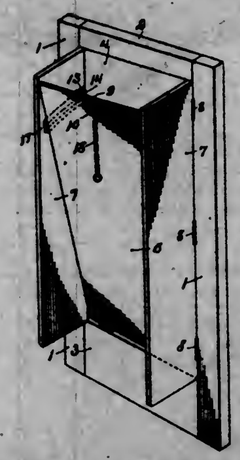
1,680,438. TOOL FOR APPLYING RAIL ANCHORS. HAROLD G. WARR, Park Ridge, Ill., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed July 27, 1927. Serial No. 208,800. 14 Claims. (Cl. 81—3.)



2. A device for use in applying rail anchors, comprising a member formed with a recessed portion adapted to fit over one end of a rail anchor and provided with means engaging the rail base, whereby force applied to the device in one direction exerts a torsional stress on said anchor.

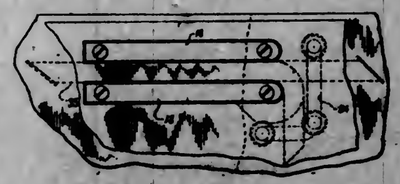
1,680,439. VENTILATING DOOR. CLARK E. WEAVER, Kansas City, Mo. Filed Feb. 21, 1927. Serial No. 169,962. 1 Claim. (Cl. 98—37.)

In a ventilating door, a door having a body provided therethrough with a ventilating opening, two wings hinged to said body at opposite sides respectively of said openings so as to swing from positions parallel with to positions at right angles to said body, each wing on its inner side having a transverse groove extending from its hinged edge, two plates respectively fastened to the inner sides of said wings, and respectively extending over said grooves, each of said plates having therethrough a longitudinal slot registering with said groove which is covered by said plate, a panel hinged to said body between said wings so as to be swung from a position closing said opening to an open



inclined position, and two members fastened to said panel at the ends respectively thereof, each of said members having a T shaped projection extending through and adapted for travel in the adjacent one of said slots and having its head in and adapted for travel in the adjacent groove and in slidable engagement with the inner side of the adjacent one of said plates, whereby the wings move conjointly with the panel from positions at right angles to the panel, when the latter is opened, to positions overlapping the panel, when the latter is closed.

1,680,440. CANDY-FORMING MACHINE. BRASHER O. WESTERFIELD, Detroit, Mich., assignor of one-half to Edgar C. Cox, Detroit, Mich. Filed Nov. 21, 1921. Serial No. 516,519. 9 Claims. (Cl. 107—4.)



1. A candy forming machine comprising a strip receiving portion; means for dividing said strip into a plurality of parts; a plurality of forming members; and means for forcing a portion of each of said parts around one of said members for forming a crook adjacent one end of each of said parts simultaneously.

1,680,441. TRAY FOR BREAD-COOLING MACHINES. CHARLES A. ADAMS, Elwood City, Pa., assignor to Mathews Gravity Carrier Company, Elwood City, Pa., a Corporation of Pennsylvania. Filed Feb. 15, 1924. Serial No. 693,043. 8 Claims. (Cl. 198—158.)

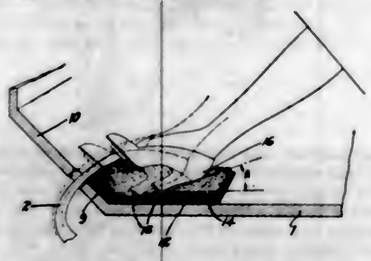
7. The combination, in a bread cooler, with driving chains and operating sprockets therefor, of a bread carrying tray having pivotal connections in one end portion with said chains, guide rails for supporting the other end

portion of the tray, wires secured to and held in spaced relation on both bottom and top of said tray, said wires being parallel to the line of movement of said chains,



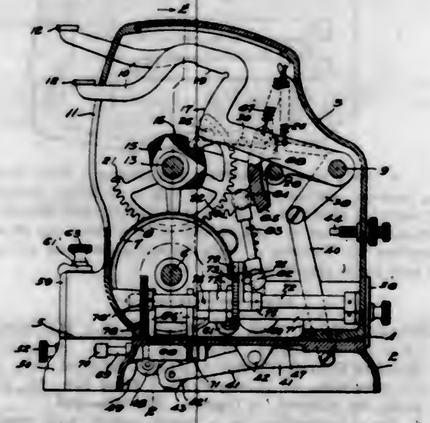
and whereby either face of the tray is adapted to receive and hold articles, and upon tilting said tray the articles supported thereon will slide off the tray.

1,680,442. FOOT MAT. MILDRED E. ANDERSON, Minneapolis, Minn. Filed Mar. 9, 1927. Serial No. 173,902. 2 Claims. (Cl. 15—215.)



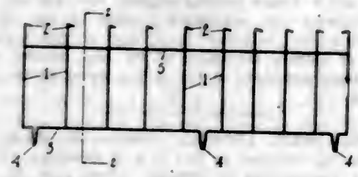
1. A pedal mat comprising a base section of flexible rubber material, and a section of natural sheep skin secured to one face side of the base section with its wool side facing outwardly.

1,680,443. CHECK-PROTECTOR. GAYLORD W. BEESE, Albany, Ga. Filed May 27, 1918, Serial No. 236,774. Renewed Sept. 5, 1924. 16 Claims. (Cl. 197—6.5.)



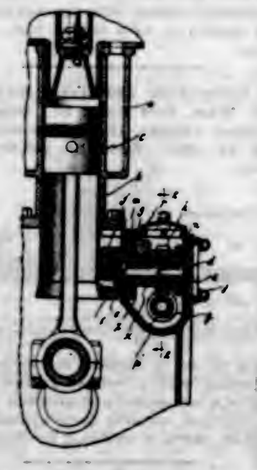
1. A check protector comprising a printing wheel having a series of peripheral marks or characters and mounted to be rocked in opposite directions, groups of cams mounted on an axis parallel with the axis of the printing wheel, means connecting one group of cams with the printing wheel to rock it in one direction and connecting the other group with the wheel to rock it in an opposite direction, said cams being positioned to impart different extent of movements to the printing wheel and disposed in the path of movement of operating keys whose axis is parallel with the axis of the cams, and keys for the cams of the different groups, said keys being disposed to be normally out of contact with their cams and adapted to be moved into contact with their cooperating cams for movement of the printing wheel.

1,680,444. STRUCTURAL UNIT. DEWEY H. BITNEY, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich. Original application filed Nov. 25, 1925, Serial No. 70,865. Divided and this application filed Aug. 6, 1926. Serial No. 127,573. 1 Claim. (Cl. 72—71.)



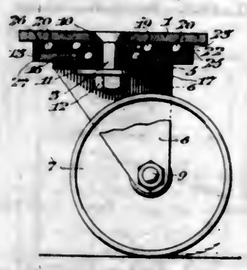
A structural unit comprising a plurality of U-shaped elements disposed in vertically spaced relation, and a pair of longitudinally disposed supporting rods disposed below and welded to the bottom cross piece of said U-shaped elements, said supporting rods having downwardly projecting loops therein disposed between certain of said U-shaped elements providing supporting legs for the unit and longitudinal side rods welded to said U-shaped elements adjacent their upper ends, said bottom and side longitudinal members coacting to rigidly support said U-shaped elements in spaced upright relation.

1,680,445. SLEEVE-VALVE GEAR. JAMES SCRIPPS BOOTH, Detroit, Mich. Filed July 24, 1925. Serial No. 45,799. 3 Claims. (Cl. 123—81.)



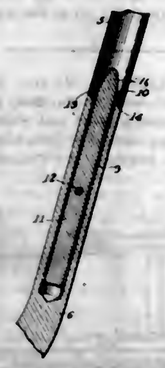
1. In a sleeve valve motor the combination of a housing, a drive shaft and drive member contained therein, a driven member and a support supported in the housing only at one end for said driven member, said support and driven member being removable from the housing as a unit.

1,680,446. CASTER. JAMES BOWEN, Manheim, Pa., assignor to Bond Foundry & Machine Company, a Corporation of Pennsylvania. Filed Dec. 10, 1926. Serial No. 153,771. 6 Claims. (Cl. 16—21.)



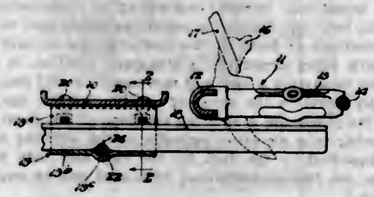
1. A swivel caster comprising two swiveled members and having a series of load carrying bearing balls, a spacer for said bearing balls spaced from the said members, and a set of bearing balls distinct from said load carrying bearing balls arranged to rotatably support said spacer for movement independently of the said swiveled members.

1,680,447. GOLF CLUB. THOMAS W. BRYANT, Torrington, Conn. Filed June 6, 1927. Serial No. 196,832. 13 Claims. (Cl. 273—80.)



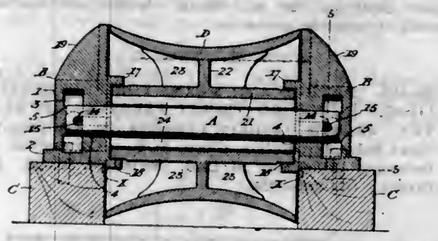
1. A golf club comprising a head having a socket, a tubular steel shaft having an end reduced in size to fit in said socket and a soft metal ring interposed between the end of the socket and a shoulder on the shaft.

1,680,448. MOUNTING FOR BRAKE-BEAM SAFETY BARS. EDWIN G. BUSSE, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 12, 1926. Serial No. 101,394. 15 Claims. (Cl. 188—210.)



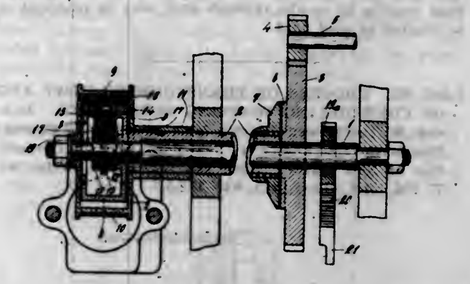
1. A mounting for a brake beam safety bar having spaced side walls and provided with a series of apertures spaced in a vertical plane and adapted to receive a safety bar locking pin, and a plurality of apertures spaced in vertical planes in definite relation with the first apertures and adapted to selectively receive means for bearing on top of said safety bar when the latter is engaged by said locking pin.

1,680,449. ROLLER AND BEARING SUPPORT THEREFOR. CHARLES S. CARD, Denver, Colo. Filed Dec. 5, 1927. Serial No. 237,899. 4 Claims. (Cl. 308—20.)



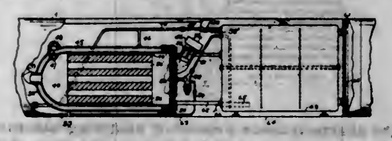
1. In mechanism of the character described, the combination of bearing boxes having inclosed chambers and openings extending from said chambers through the inner faces of the boxes, an axle supported in said openings, its ends abutting against the outer end walls of said chambers, the inner faces of said boxes being formed with circular recesses, and a roller mounted on said axle having a hub whose ends extend into said circular recesses; and pins extending through the end portions of said axle and engaging the inner end walls of said chambers, thereby to prevent spreading of the boxes on said axle, said boxes each having opposite openings extending into said chambers, and means for normally closing said openings.

1,680,450. MACHINE FOR RAMMING PAVING STONES AND THE LIKE. ERNST HJALMAR CARLSSON, Oscarshamn, Sweden. Filed Sept. 22, 1926, Serial No. 137,019, and in Sweden June 8, 1926. 4 Claims. (Cl. 94—49.)



1. In a mechanism for actuating a ram for ramming stones, the combination with a continuously rotating member and coupling mechanism therefor, of an oscillating element about which a flexible lifting member is wound and unwound, and a radially movable coupling member turning with the continuously rotating member and being brought into and out of driving engagement with the oscillating element to effect movement thereof.

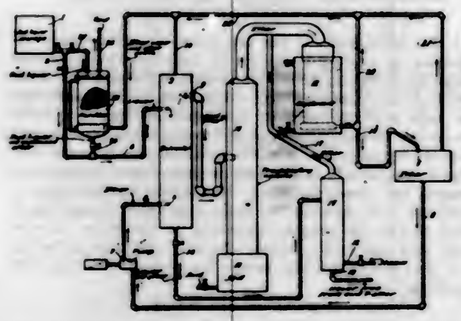
1,680,451. TORPEDO. EDWARD F. CHANDLER, Brooklyn, N. Y. Filed Mar. 12, 1918, Serial No. 221,962. 16 Claims. (Cl. 60—42.)



1. In a torpedo, a motive fluid generator, a combustible substance within the generator, storage space for a liquid combustion supporter, means for conveying liquid from said space to said generator, means for initiating a reaction between said substance and said liquid to evolve

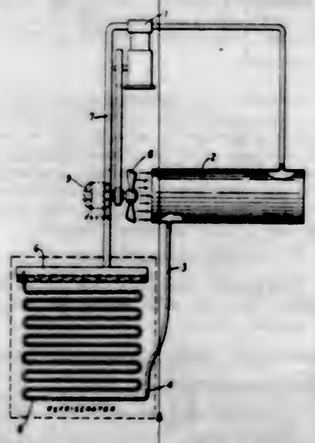
heat and means supplying water from the medium surrounding the torpedo to the reaction space and to the storage space, the water supplied to the said storage space displacing the said liquid therein and thereby forcing it into the generator.

1,680,452. METHOD AND MEANS FOR PREVENTING LOSSES IN CLOSED-CIRCUIT TREATING APPARATUS. JAMES M. COAHRAN, Colegrove, Pa., assignor to Olean Sales Corporation, Olean, N. Y., a Corporation of Delaware. Filed May 26, 1925. Serial No. 33,082. 10 Claims. (Cl. 260—122.)



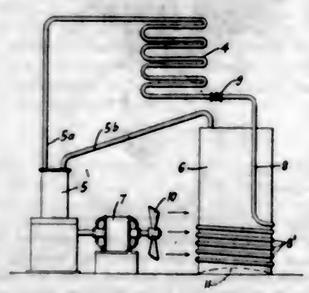
1. The method of preventing leakage of a treating fluid from a cyclic treating system which comprises venting said system to the atmosphere and absorbing treating fluid tending to escape through said vent in material to be treated by said fluid.

1,680,453. PROCESS OF TRANSFORMING HEAT AND OF CONTROLLING WORKING SUBSTANCES. RANSOM W. DAVENPORT, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 22, 1925. Serial No. 77,156. 4 Claims. (Cl. 62—178.)



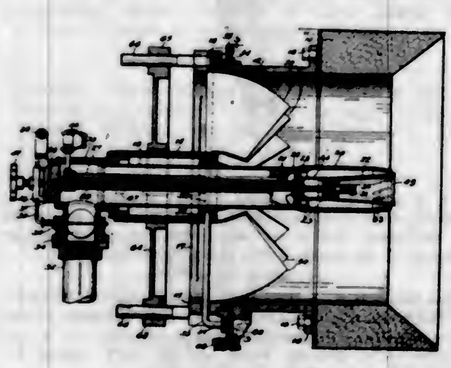
1. The thermodynamic process of producing absorption of heat at a plurality of temperatures which comprises expanding a liquid-vapor-gas stream into a body of liquid and interfering with the equalizing in temperature in the liquid by restraining the free movement of the same while removing vapor from said body of liquid.

1,680,454. APPARATUS FOR PRODUCING THERMODYNAMIC EFFECTS. RANSOM W. DAVENPORT, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 31, 1925. Serial No. 78,563. 13 Claims. (Cl. 62—115.)



1. In a thermodynamic system utilizing as a working substance a liquid and gas substantially inert to and insolubl in said liquid, the process of producing condensation of the vapor of the liquid in a stream of mingled vapor and gas which comprises maintaining a considerable volume of the vapor-gas mixture in a substantially static condition and extracting heat from the same, thereby giving the vapor time to reach condensing temperature and to extricate itself from the gas in the form of liquid.

1,680,455. OIL BURNER. MILTON A. FESLER, Stamford, Conn., and JAMES N. MACRAE, Jersey City, N. J., assignors to Petroleum Heat and Power Company, New York, N. Y., a Corporation of Delaware. Filed May 28, 1927. Serial No. 194,894. 10 Claims. (Cl. 158—77.)



1. A liquid fuel burner, comprising in combination, a rotatable fuel cup, means for supplying liquid fuel to said cup, serrations or teeth at the discharge end of said cup, said teeth being arranged in staggered relation to each other for imparting a swirling movement to said fuel substantially equal to the speed of rotation of the cup, and means for producing a swirling envelope of air about said cup moving in a direction opposite to the swirling movement imparted to the fuel by the cup and into which envelope the fuel is discharged from said cup by centrifugal force.

1,680,456. OVEN. JAMES F. FIRESTONE, Dowagiac, Mich., assignor to The Beckwith Company, Dowagiac, Mich. Filed Feb. 13, 1928. Serial No. 254,113. 5 Claims. (Cl. 126—39.)

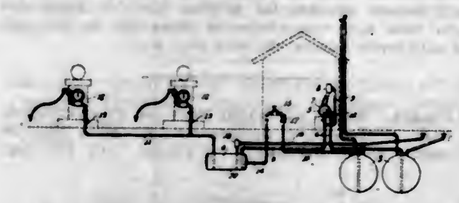
1. An oven comprising a top provided with a vent opening adjacent the front thereof, a door frame, a door

hinged to said frame to close against the front side thereof, and a lining for said door having its upper edge folded upon itself providing a horizontally disposed flange



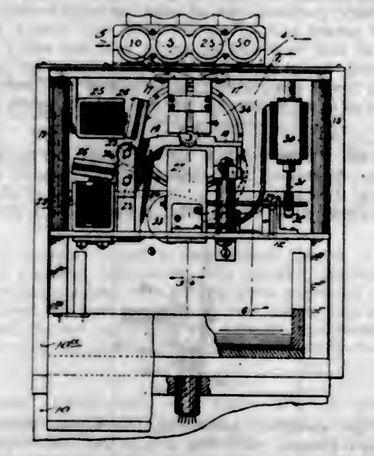
projecting into the opening of the door frame, the free arm of said flange being adapted to yieldingly engage the top edge of the door frame when the door is closed.

1,680,457. LIQUID-DELIVERY APPARATUS. JOHN J. HAWXHURST, Brooklyn, N. Y., assignor, by direct and mesne assignments, to Liquid Dispensing Systems, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Feb. 23, 1927. Serial No. 170,196. 15 Claims. (Cl. 221—67.)



1. In liquid delivery apparatus, a storage tank, a delivery tank, means for transferring liquid from said storage tank to said delivery tank, a delivery line taking liquid from the lower portion of said delivery tank, means for controlling the transfer of liquid to maintain a cushion of compressed air acting on the liquid in the delivery tank and means for venting excess air in the top of the delivery tank to prevent said air cushion from lowering the liquid in the delivery tank below a desired minimum level.

1,680,458. CONTROL MECHANISM FOR CHANGE MAKING AND EJECTING DEVICES. FRANK HEDLEY, Yonkers, and JAMES S. DOYLE, Mount Vernon, N. Y. Filed Aug. 8, 1923. Serial No. 656,417. 9 Claims. (Cl. 194—6.)



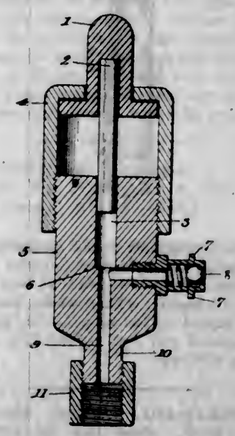
1. In an apparatus of the class described, and in combination with ejector devices, and means for operating the same, of retaining devices for a deposited coin, a selector member controlled by the deposited coin when supported by said retaining devices, said operating means also controlling the release of said retaining devices, and a baffle member controlled by said operating means to direct the released coin into a receiving receptacle.

1,680,459. MARKING TAG. WILLIAM N. HEMPHILL, Toronto, Ontario, Canada, assignor to The T. Eaton Co. Limited, Toronto, Canada. Filed Nov. 16, 1925. Serial No. 69,410. 1 Claim. (Cl. 40—25.)



A marking tag, comprising a narrow strip of material having one end folded over and doubled back, a fastening member secured in the extremity of the doubled back portion having prong extensions adapted to pass through the article to be marked and through the first fold close to the fold crease, the folded, doubled back and body portions of the tag having openings punched therein adapted to register at a point spaced from said fastener member a distance less than the length of the prong extensions thereof to receive a permanent fastener whereby the spreading of the doubled back and folded portions sufficient to permit release of the prong extensions from therebetween is prevented.

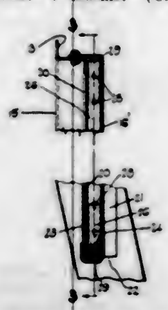
1,680,460. FLUID-PRESSURE BOOSTER. JESSE D. LANGDON, Los Angeles, Calif., assignor to Langdon Engineering Corporation, Los Angeles, Calif. Filed Nov. 14, 1927. Serial No. 233,269. 2 Claims. (Cl. 103—152.)



1. A fluid pressure boosting device comprising a cylinder, a piston disposed within said cylinder, a hammer pad on one end of said piston, a retaining cap suitably disposed to allow for the movement of said piston in a cylinder body having a cylinder therein, said cylinder being so disposed within said main body that the pis-

ton traveling within said cylinder will at all times allow the entry of fluid under pressure against the end of said piston, together with a check valved inlet to said cylinder and an outlet from said cylinder in combination with means to couple said pressure boosting device to a fluid pressure delivery line and an object to which it may be desired to deliver fluid by means of said fluid pressure boosting device.

1,680,461. GLASS-RUN-CHANNEL CONSTRUCTION. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 9, 1924. Serial No. 754,716. 7 Claims. (Cl. 296—4.45.)



1. A glass run channel construction comprising a rigid channel, flexible lining in said channel, and metal clips attached adjacent the ends only of the lining and attaching opposite ends of the lining at opposite ends of the channel.

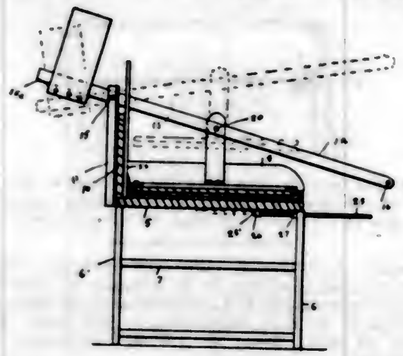
1,680,462. CONTAINER FOR COLLAPSIBLE TUBES. JOSEPH LESQUENDIEU, Paris, France, assignor to J. Lesquendieu Inc., New York, N. Y., a Corporation of New York. Filed Jan. 4, 1927, Serial No. 158,968, and in France May 15, 1926. 1 Claim. (Cl. 221—60.)



A casing for collapsible tubes comprising cooperating tubular members, one having an interior pressure member spaced from the lateral wall of said tubular member, forming a channel within which the other tubular member is adapted to telescope, said pressure member having an inclined end wall adapted to cooperate with the bottom of the tube.

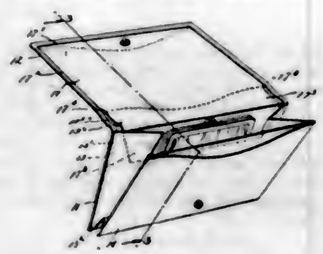
1,680,463. BREAD-ROLL PRESS. FRANK MAGAZINER, Springfield, Mass. Filed July 18, 1925. Serial No. 44,413. 2 Claims. (Cl. 107—15.)

2. A device of the class described comprising in combination, a table having a rear wall and side walls extending upwardly therefrom, spaced levers pivoted adjacent their ends to said rear wall, a cross bar fixed to the other end of said levers, a presser member over said table pivoted to and depending from said levers intermediate the ends thereof, guides fixed on said rear wall adjacent said table for engaging the rear side of



said presser member for guiding it as it approaches said table and counterbalances adjustable on the ends of said levers outside the said rear wall.

1,680,464. WOMAN'S HAND BAG OR POCKETBOOK. MAX J. MARYMONT, Brooklyn, N. Y. Filed Nov. 28, 1927. Serial No. 236,075. 2 Claims. (Cl. 150—36.)



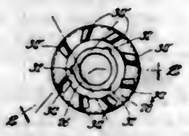
1. A woman's pocket book or the like, comprising a body having a front and back portion, the back portion being extended to form a flap adapted to fold over the front portion, two adjacent pockets between said front and back portions, one of said pockets serving as a secret pocket and having its back wall formed by the back of said body and a part of said flap and a lining for said flap having an unattached extended portion at its lower end adapted to be passed into said other pocket so as to conceal the presence of said secret pocket.

1,680,465. ELECTRICAL MEASURING INSTRUMENT. CARL T. MASON, East Orange, N. J., assignor to Tiffany Manufacturing Co., Newark, N. J. Filed July 18, 1925. Serial No. 44,497. 16 Claims. (Cl. 171—95.)



9. An electrical measuring instrument including a movable element consisting of only two pieces, an armature and a pointer with means for attaching them together, said armature having pivotal means formed integrally therewith.

1,680,466. REAMING TOOL. WILLIAM H. EVANS, Chicago, Ill., assignor to Evans Flexible Reamer Corporation, Chicago, Ill., a Corporation of Illinois. Filed July 28, 1924. Serial No. 728,657. 3 Claims. (Cl. 29—103.)



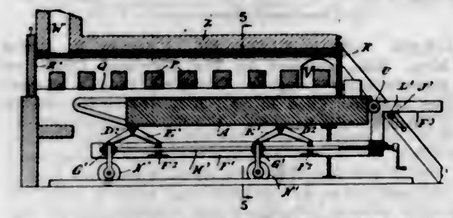
1. A device of the character described comprising a hollow sheet metal cutter member having a substantially conical portion with integral out-struck teeth thereon, said teeth being inclined to the radial in a plurality of series, the inclination of one series being opposite to that of the other series, said teeth being resilient and having their cutting face bent rearwardly relative to the direction of rotation from the base of the teeth whereby when the cutting edge strikes an obstacle the bending of the resilient tooth causes the edge to recede from the work.

1,680,467. METHOD OF MANUFACTURING AUTOMOBILE FENDERS. MARTIN H. MATHESON, Detroit, Mich. Filed Aug. 23, 1926. Serial No. 130,903. 6 Claims. (Cl. 113—51.)



1. That method of manufacturing automobile fenders which includes stamping a right fender and its complementary left fender from a unitary sheet metal blank at one and the same time and forming the inner edge portion of each complete fender from the intermediate portion of the blank.

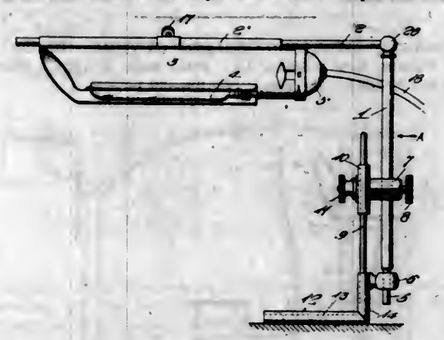
1,680,468. FURNACE. FRITZ MENNE, Wiedenau-on-the-Sieg, Germany, assignor to Herman F. Hoevel, New York, N. Y. Filed May 20, 1927, Serial No. 192,815, and in Germany Oct. 9, 1925. 3 Claims. (Cl. 263—6.)



2. A furnace having a longitudinal passage, a loose bottom arranged adjacent to said passage longitudinally thereof and provided with cooling pipes projecting lengthwise from the upper surface of the bottom and beyond one end thereof and spaced to form an open-work support at such end to permit loose material to drop through.

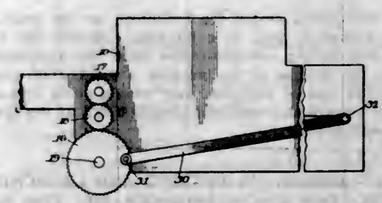
1,680,469. LAMP AND BRACKET. JOHN E. MORGAN, New Orleans, La. Filed Mar. 5, 1927. Serial No. 173,105. 2 Claims. (Cl. 240—52.)

1. A combined lamp and bracket, comprising a supporting element secured to a base and formed of a single piece of material bent upon itself whereby a clip is produced, a raised portion formed in the supporting element, an upstanding member of L shaped form in cross section adapted to be engaged by the supporting element, members secured on the upstanding member and provided with means for adjustment with respect to the



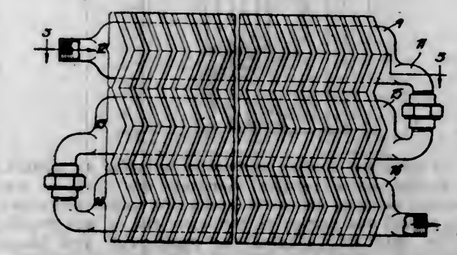
upstanding member, an arm adapted to be secured to the adjustable members and an arm extending from said first arm and adapted to engage the shade of a lamp and means for positioning the shade at various angles on the second arm.

1,680,470. PAPER-FEEDING MACHINE. GARRETT W. MUDD, Chicago, Ill. Filed Nov. 15, 1926. Serial No. 148,426. 9 Claims. (Cl. 271—44.)



1. A machine for feeding sheets of paper and the like embodying a holder for a supply of sheets, an ejector below and reciprocable across the bottom of said supply, an extended arm directly supporting the ejector, means pivotally mounting the arm by one end, means for causing the ejector to remove one edge of the sheet from the supply and to buckle another portion of the sheet during the movement of the ejector in one direction, and means for bodily moving the ejector in a direction toward the supply, the last said means permitting the ejector to swing away from the bottom of the supply by swinging the ejector arm about its pivot.

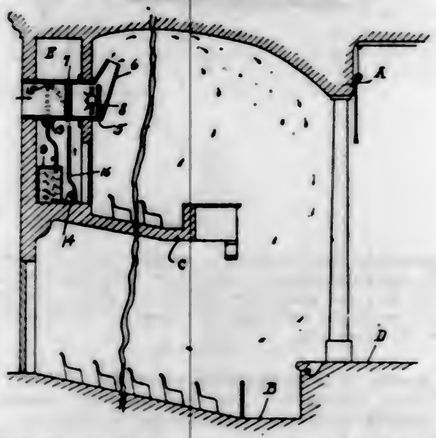
1,680,471. RADIATOR. THOMAS E. MURRAY, Jr., Brooklyn, N. Y. Filed Aug. 8, 1925. Serial No. 48,929. 1 Claim. (Cl. 257—149.)



A radiator comprising a heating vessel and a radiating structure engaging the same, said radiating structure comprising relatively thin sheet metal formed to provide

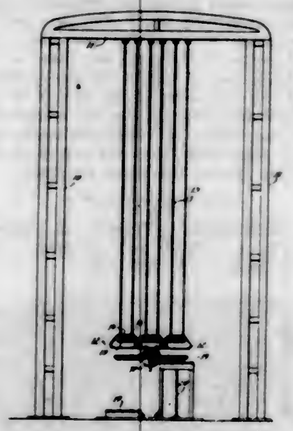
spaced substantially vertically extending zig-zag enclosed flues, containing therein the heating vessel, said flues being so constructed as to provide corresponding zig-zag open flues within the inner and outer boundaries of said enclosed flues.

1,680,472. **BUILDING-COOLING SYSTEM.** BLAISE J. NUCCIO, New Orleans, La. Filed Sept. 3, 1927. Serial No. 217,365. 1 Claim. (Cl. 98—39.)



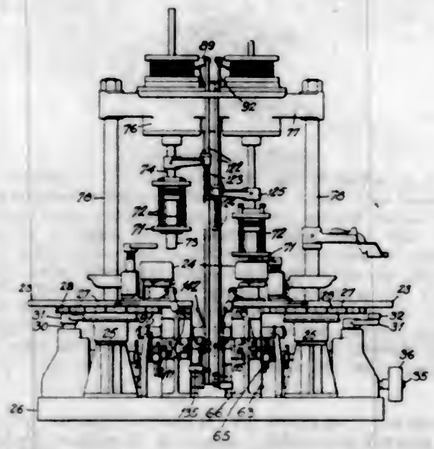
In a ventilating device for buildings, an air pipe arranged through a wall of a building adjacent the roof thereof and having communication with the atmosphere and with the interior of the building, a constricted nozzle at the inner end of the pipe, said nozzle being disposed inclinedly toward the roof, and a suction fan at the lower end of said nozzle.

1,680,473. **AEROPLANE LANDING AND LAUNCHING DEVICE.** ORIN PARTEE, Bentonville, Ark. Filed Nov. 23, 1927. Serial No. 235,228. 1 Claim. (Cl. 244—2.)



An aeroplane landing mechanism including an upright, a flexible device pending therefrom and free for unimpeded swinging movement, and a ring spaced well above the ground and carried by the lower end of said flexible device, said ring adapted for engagement with hooks carried by aeroplanes while the latter are in flight, a plurality of said flexible devices being provided and the rings which they carry being arranged in overlapping relationship.

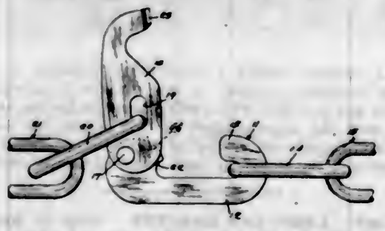
1,680,474. **GLASS-PRESSING MACHINE.** KARL E. PERLES and EDWARD H. LORENZ, West Hartford, Conn., assignors to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Aug. 10, 1918. Serial No. 249,244. 62 Claims. (Cl. 49—37.)



30. In a machine for shaping plastic glass, the combination of a rotatable mold support, a plurality of molds carried by said support, means cooperating with said molds for shaping the glass therein, a crank for intermittently rotating said support to successively position said molds in alignment with said shaping means, means timed to lock the support between its periods of rotation, a rocker device adapted to intermittently move said crank into operative relation to said support, means for actuating the rocker device, an arm on the rocker device, and means controlled by the locking means serving when the support is out of normal relation to the rotating means to engage said arm and prevent operation of the rocker device.

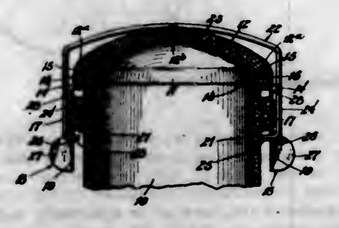
62. In an automatic glass machine, shaping devices, means to supply air under pressure to said shaping devices to cause a shaping operation, means adapted to successively reduce the air pressure to a predetermined amount when the shaping operation is completed, to maintain such reduced pressure constant until the glass sets, and to completely relieve the air pressure in said devices when the article is ready to be removed from said devices.

1,680,475. **CHAIN FASTENER.** CHARLES M. POWER, Kent, Ohio, assignor to The Cleveland Chain and Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 11, 1927. Serial No. 204,765. 2 Claims. (Cl. 24—68.)



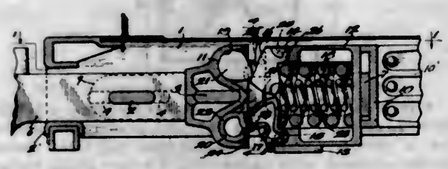
1. A chain fastener, for connecting a chain, such as an automobile anti-skid chain, comprising: a base, provided at one end with a recurrent hook forming a recess adapted to receive the chain to attach the chain to said base, said recess having that side thereof formed by the recurrent end of said hook extending substantially parallel to the direction of the strain normally imposed on said base by the chain, and a keeper, for holding said chain on said hook, pivoted to the other end of said base, provided with a projecting lip adapted to releasably hold said keeper in closed position, and provided also with a lug projecting, when said keeper is in closed position, into position to prevent the chain passing beyond said substantially parallel side of said recess.

1,680,476. **JAR CLOSURE.** EDWARD P. RICE, Eau Claire, Wis. Filed Aug. 5, 1926. Serial No. 127,414. 3 Claims. (Cl. 215—87.)



1. In combination, a container having a mouth, a closure for the mouth, trunnions formed on the container at opposite sides thereof, clamping means for the closure comprising a pair of members having bearing sleeves thereon rotatably engaged upon the trunnions and removable therefrom, and a clamping bail engageable with the closure and having its end portions pivotally connected with said members eccentric to the openings therein.

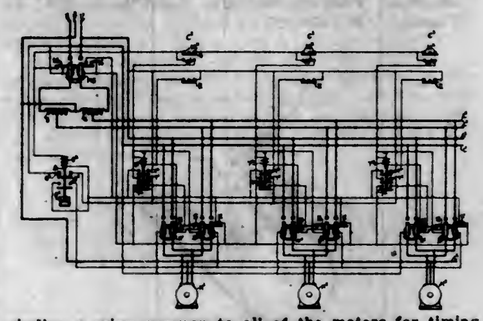
1,680,477. **DRAFT GEAR.** HERMAN C. PRIESS, Blue Island, Ill. Filed Mar. 21, 1927. Serial No. 177,045. 5 Claims. (Cl. 213—27.)



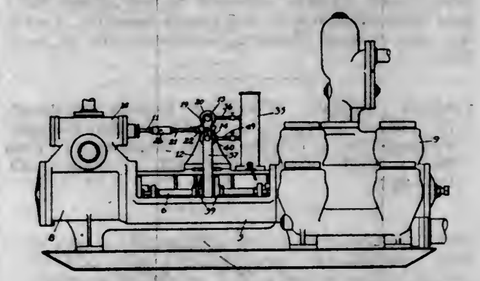
1. A draft gear including two followers; coacting rockers respectively mounted to turn upon said followers; intermeshing hook formations provided upon one of said followers and the rocker mounted thereon and positioned to hold this rocker at its seat; and a spring carried by the latter follower and pressing the rocker mounted to turn on this follower into cooperative relation with the other rocker.

1,680,478. **MOTOR CONTROLLER.** EDWIN W. SEEGER, South Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 3, 1926. Serial No. 113,355. 8 Claims. (Cl. 172—239.)

1. In a controller for a plurality of electric motors having a common supply circuit, in combination, a starting transformer, a switch for connecting said transformer to the supply circuit, a plurality of switches associated with each motor one for establishing connections to said transformer for starting and the other for establishing connections directly to the supply circuit for running, control means for said switches for preventing closure of a plurality of starting switches simultaneously and means including a relay common to all of the motors for timing opening of the starting switch of each motor and closure of the running switch therefor.

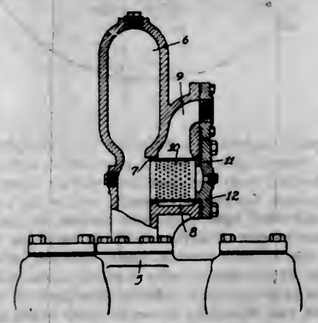


1,680,479. **PUMP.** JOHN M. SHIMER, Wilkinsburg, Pa., assignor to Wilson-Snyder Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 13, 1927. Serial No. 183,356. 9 Claims. (Cl. 121—114.)



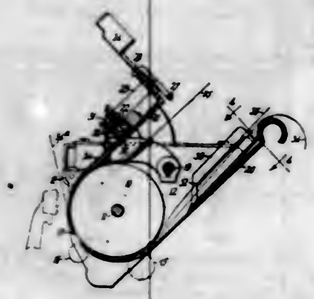
1. The combination in a pump having a valve operating mechanism including a lever mounted on a pivotal support, a piston rod, a connection between said rod and said lever for oscillating said lever, means for supplying lubricant to said support and a passage for conveying lubricant from said support to said connection.

1,680,480. **PUMP.** JOHN M. SHIMER, Wilkinsburg, Pa., assignor to Wilson-Snyder Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 13, 1927. Serial No. 183,357. 2 Claims. (Cl. 103—224.)



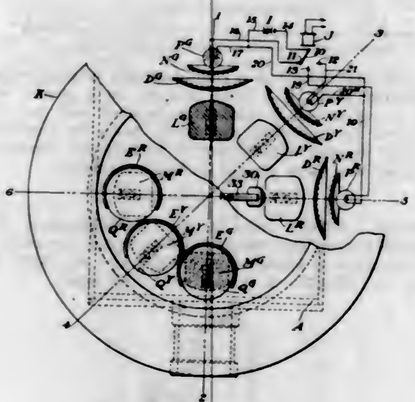
1. In a device of the class described, an air-chamber having a strainer bore associated therewith, a flange closing one end of said bore, a strainer mounted on said flange and positioned in said bore, and a discharge passage leading laterally away from said bore.

1,680,481. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 16, 1924. Serial No. 743,899. 10 Claims. (Cl. 197—127.)



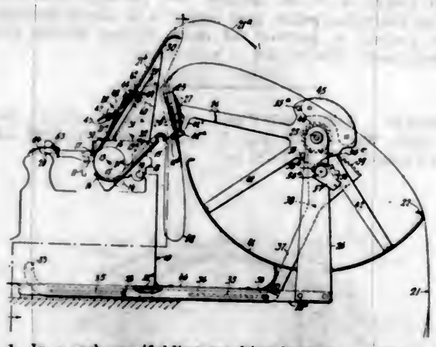
1. The combination, in a typewriting machine, of means for simultaneously clamping both edges of a work-sheet upon a table at the delivery side of the platen, said means including a pair of clamps pivotally mounted upon the table, a link pivotally connected to both clamps for a joint clamping movement, and springs operative to maintain each clamp in clamping engagement with the work-sheet.

1,680,482. SIGNAL. CLARENCE S. SNAVELY, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Mar. 8, 1923. Serial No. 623,757. 1 Claim. (Cl. 177—32.7.)



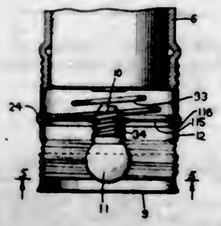
A signal comprising a plurality of lamps disposed in a vertical plane, optical means associated with each lamp for projecting from the lamp an original beam of parallel rays directed toward a common center in said vertical plane, and two light reflectors located in each original beam and staggered horizontally so that one deflector is on one side of said vertical plane and the other deflector is on the other side of said vertical plane whereby said deflectors intercept two different portions of the original beam, the two deflectors for each lamp being parallel and located on opposite sides of a horizontal axis through said common center, all of said deflectors being disposed at the same angle with said horizontal axis, and each of them being positioned to redirect its portion of an original beam in a secondary beam parallel to said axis.

1,680,483. TYPEWRITING MACHINE. BURNHAM C. STICKNEY, Portsmouth, N. H., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed July 8, 1925. Serial No. 42,114. 19 Claims. (Cl. 197—126.)



1. In a web-manifolding machine having a carriage and a platen, the combination with a carbon-holder unit in the rear of the carriage movable forwardly and rearwardly, said carbon-holder stationary during letter-feeding movements of the carriage, of a normally fallen web-lifter also stationary while the carriage travels and adapted to rise intermediate the carriage and carbon-holder unit.

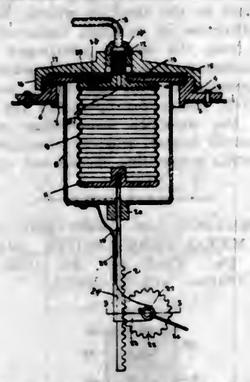
1,680,484. EXTRA-BULB CARRIER. FRANK G. STIMSON, Long Island, N. Y., assignor to Yale Electric Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 9, 1927. Serial No. 211,671. 1 Claim. (Cl. 240—10.5.)



A spare lamp carrier for flashlights including a tubular battery container having a threaded lower end, comprising a tubular carrier, a transverse partition therein formed centrally with an aperture, a volute spring battery thrust member carried within the carrier on one side of the partition and concentric with the aperture, a lamp socket so disposed within the aperture as to carry a spare lamp on the other side of the partition with the lamp terminal extending within the volute spring, said carrier being formed with female threads at one end to receive the threaded end of the battery container and with male threads at the other end to receive the bottom cap of the flashlight.

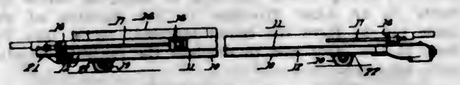
1,680,485. LIQUID-LEVEL GAUGE. HARRY B. SWAN, Detroit, Mich. Filed Aug. 16, 1922. Serial No. 582,172. 2 Claims. (Cl. 73—82.)

2. In a device of the class described, the combination with a tank provided with an opening, a ring secured to the tank and surrounding the opening, a casing extending through the said opening and having a flange seating on the ring, a plate resting on said flange and provided with an aperture, an expansible liquid container in said casing having an apertured head secured to said plate, said head having a tubular projection in line with the aperture in the head and extending through the aperture in said plate, a cap secured to the ring and having an opening surrounding the tubular projection above the plate, float operated means for operating said expansible con-



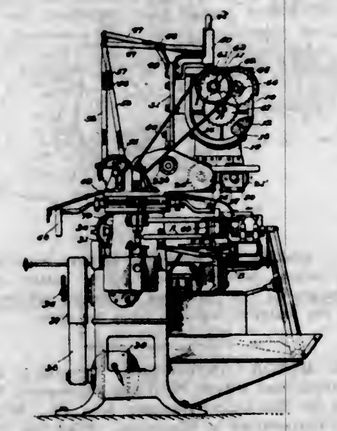
tainer, a gauge, and means establishing a connection between said gauge and tubular projection operable by liquid displacement for indicating the contents of the tank.

1,680,486. SUCTION BOX. ROBERT H. TAYLOR, Jr., Worcester, Mass., assignor to Rice, Barton & Fales, Incorporated, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 13, 1928. Serial No. 246,606. 6 Claims. (Cl. 92—51.)



1. As an article of manufacture, a suction box for the purpose described comprising two pipe sections spaced apart so that the larger one constitutes the bottom of the suction box, and a pair of strips along the top and sides for separating the edges of the two pipe sections and constituting the top of the suction box.

1,680,487. FILLING AND WEIGHING MACHINE. WILLIAM L. TAYLOR, Battle Creek, Mich., assignor to Johnson Automatic Sealer Co., Ltd., Battle Creek, Mich., a Partnership Association Limited. Filed Feb. 7, 1923. Serial No. 617,564. 13 Claims. (Cl. 221—118.)



1. In a machine of the character described, the combination of a receptacle supported above the machine and having a substantially horizontal inner surface, means for depositing material on said surface at a point removed from one extremity thereof, a hopper at said extremity of the surface, means for feeding the material along the surface into said hopper, and a horizontally disposed rotating, cylindrical element for feeding the material out of the hopper into a portable container.

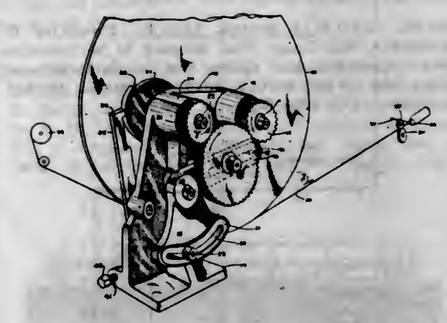
13. In an apparatus of the character described, a device for feeding material in opposite directions, a pair of longitudinally spaced rollers receiving material from said feeding device, mechanism for driving said rollers, and means operatively connecting the rollers with said material feeding device.

1,680,488. BELT BUCKLE. GEORGE W. TROOP, Geneva, Ohio. Filed Aug. 13, 1923. Serial No. 657,080. 3 Claims. (Cl. 24—191.)



1. A belt buckle comprising a flanged front plate, a clamping member pivoted to the flanges, a loop element pivoted to said clamping member for actuating the latter, the said loop element being movable toward and from said front plate and itself comprising a plate and a transverse bar connected with the plate at its ends and spaced from said plate intermediate the ends, the said bar being bent outwardly from the loop plate in a direction toward the said front plate, and the transverse bar being sufficiently spaced from the outer end of the front plate when the buckle is in closed position, to permit a belt being inserted through the space between the said bar and said outer end, and the space between the bar and the loop plate.

1,680,489. ADJUSTABLE MEASURING AND CUTTING DEVICE FOR COIL-WINDING MACHINES. STEN WADSTEN, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Feb. 4, 1927. Serial No. 165,857. 6 Claims. (Cl. 153—65.)



1. A machine for producing coiled filaments for incandescent electric lamps of different wattages comprising means for feeding a wire, a measuring drum movable through contact with said wire, means for coiling the wire after passing said drum, a cutter disposed in operable relation with said coiled wire, means associated with said drum for actuating the cutter upon a predetermined movement of said drum to sever a coiled filament for a given wattage and means for changing the relative movement between said cutter and drum to cut a coiled filament for a different wattage lamp.

1,680,490. ENDOSCOPE. REINHOLD H. WAPPLER, Yonkers, N. Y. Filed June 25, 1923. Serial No. 647,439. 15 Claims. (Cl. 128—7.)



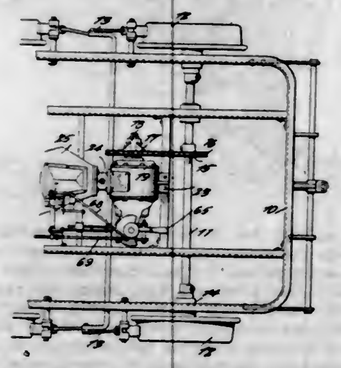
1. An endoscope comprising an optical tube and an optical system located within said tube and including a lens, said optical system being so arranged that the optical axis of the tube extends through the lens and through a field of vision in the form of a disk, this disk being so positioned that its axis crosses the optical axis of the tube and extends through said lens, said disk at one point along its periphery extending approximately to a line drawn straight as a prolongation of the optical axis of the tube.

1,680,491. ILLUMINATING SURGICAL TELESCOPE. REINHOLD H. WAPPLER, Yonkers, and FREDERICK CHARLES WAPPLER, New York, N. Y. Filed Oct. 18, 1926. Serial No. 142,286. Renewed Dec. 8, 1927. 12 Claims. (Cl. 128—6.)



1. A telescope of the character described having at its end a lamp-accommodating extension of reduced cross-section but lying wholly within the space bounded by the extended peripheral surface of said end, and an objective in said end, said objective being constructed and arranged to render visible through the telescope a field of vision alongside of the extension and whose innermost limit lies within said space, and said objective having its exposed surface perpendicular to the line defining said limit, whereby the latter will be unaffected by the medium in said field.

1,680,492. RAILWAY MOTOR TRUCK. FRIDTHJOF W. ANDERSON, Eau Claire, Wis., assignor to Northwestern Motor Company, Eau Claire, Wis., a Corporation of Wisconsin. Filed Sept. 9, 1926. Serial No. 134,461. 6 Claims. (Cl. 105—62.)



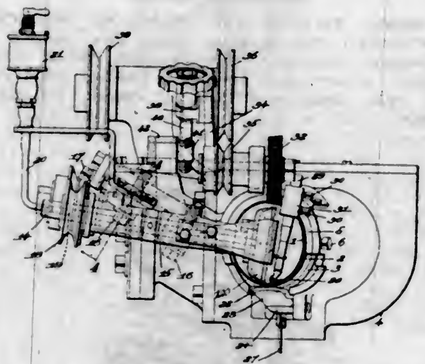
1. In a motor car, a truck having traction wheels, an engine on the truck having driving and reversing gear transmission, a drive shaft rotated through the transmission, a housing into which the drive shaft extends and in which it is rotatable, a shaft rotatable in the housing, means for transmitting power from the second mentioned shaft to the traction wheels, means for controlling the direction of rotation imparted to the traction wheels from the second mentioned shaft, clutch controlled mechanism for the transmission, brake operating means associated with the engine, means for operating the clutch, means for operating the brake, means for shifting the direction controlling means, and a manually operated control whereby the clutch, the brake and the direction controlling means are operated simultaneously.

1,680,493. METHOD OF REMOVING PIPING AND UNSOUND METAL FROM INGOTS. SAMUEL S. BALL, Bethlehem, Pa. Filed Apr. 24, 1922. Serial No. 556,241. 4 Claims. (Cl. 29—160.4.)



1. The method of freeing the body of an ingot of piping and segregations in the top thereof which includes the step of applying forces to the ingot entirely in a direction truly axial of the latter and when the latter is in a plastic state to effect the flattening of the upper end of the ingot, and the step of applying forces entirely in an axial direction to the margins of the ingot top to force the sound marginal metal into the body of the ingot and to displace the centrally located unsound metal.

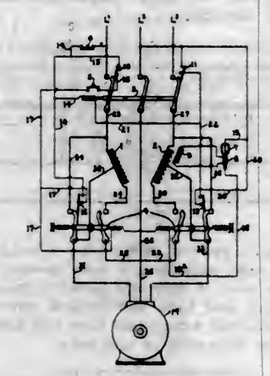
1,680,494. MACHINE FOR REMOVING SURPLUS STOCK FROM SHOES. HARRIE A. BALLARD, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 4, 1923. Serial No. 655,699. 24 Claims. (Cl. 12—82.)



1. In a machine for removing surplus material from shoes, a rotary delivery tube, and a cutter operating at the mouth of the tube and arranged to throw into the tube the material removed from the shoe.

1,680,495. MOTOR CONTROLLER. THOMAS E. BARNUM, Wauwatosa, and HENRY N. WADE, Shorewood, Wis., assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 18, 1920. Serial No. 417,693. 17 Claims. (Cl. 172—289.)

1. In a motor controller the combination with means for establishing different power connections selectively of means for timing establishment of certain of said connections by said former means, said latter means including



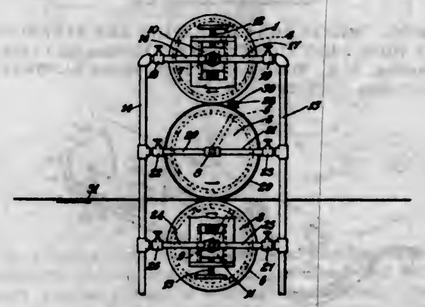
a normally closed electro-thermal relay energized inductively by the main current and responsive subject to a time element.

1,680,496. SURFACING TOOL. HUGH BAUER, San Francisco, Calif. Filed Nov. 12, 1927. Serial No. 232,857. 10 Claims. (Cl. 72—136.)



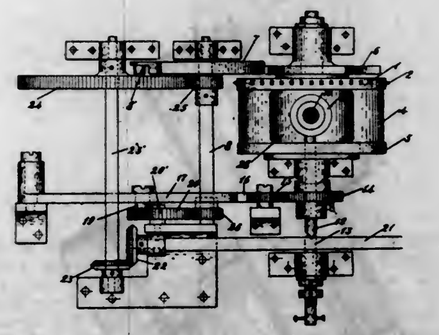
1. A surfacing tool comprising a body; a wire mounted in spaced relation to one edge of the body; and means for stretching the wire taut.

1,680,497. IMPREGNATED FABRIC AND PROCESS OF MAKING THE SAME. HERMAN E. BROWN, Kingston, N. Y., and JORDAN HOMER STOVER, Nutley, N. J., assignors, by mesne assignments, to Respro Inc., Providence, R. I., a Corporation of Rhode Island. Filed Sept. 7, 1922. Serial No. 586,806. 9 Claims. (Cl. 91—70.)



1. The herein described process, which consists in applying to a fabric composed of unspun unwoven natural fibres, a binding material in the form of a dough like semi-solid plastic at the time of application, having such high cohesiveness and adhesiveness as to be capable of penetrating around and between the natural fibres, and forcing said binding material by pressure into the fabric and around and upon the individual fibres so as to coat the individual fibres throughout the fabric without completely filling the interfibre spaces and causing the fibres to adhere at points of contact and intersection by the cohesion of their individual coatings.

1,680,498. PANORAMIC-MOVING-PICTURE APPARATUS. CORRADO CERQUA, Brooklyn, N. Y., assignor to Filoteo Alberini, New York, N. Y. Filed July 18, 1924. Serial No. 726,812. 24 Claims. (Cl. 88—16.)



1. In a panoramic camera, the combination, with a casing and an angularly movable objective mounted in said casing, of a film, a feeding member therefor interlocking therewith coaxial with the axis of rotation of said objective, means adapted to cause intermittent partial rotation of said feeding member in one direction, means associated therewith adapted to alternately cause swinging motion of said objective from one extreme of its angular travel to the other, and an operating member controlling the operation of said feeding member and swinging means.

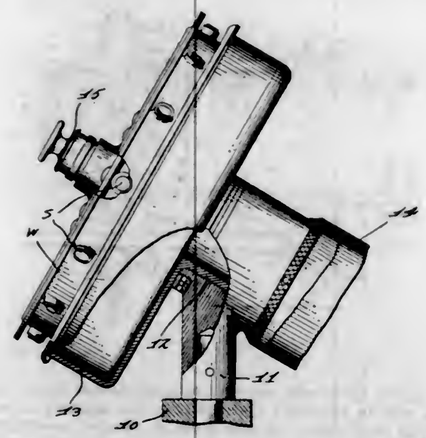
1,680,499. WROUGHT-METAL CONNECTION FOR THREADED-PIPE SECTIONS. JAMES CLARK, FRANK N. SMITH, and JAMES MEESE, Bradford, Pa., assignors to S. R. Dresser Manufacturing Company, Bradford, Pa., a Corporation of Pennsylvania. Filed Mar. 4, 1924. Serial No. 696,811. 13 Claims. (Cl. 285—132.)



1. A wrought metal connection for threaded pipes, comprising among its members a wrought metal cylindrical member provided at its outer end with an out-

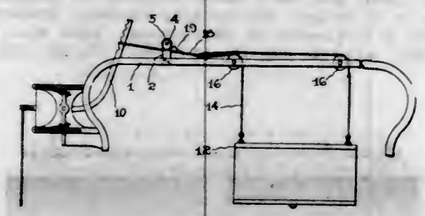
wardly flared marginal portion, forming a packing recess between it and the unthreaded exterior of a pipe section to be connected therewith, said cylindrical member being provided within the same at a distance from said marginal portion and packing recess with a wrought metal collar fitting the interior of said cylindrical member, united permanently thereto by welding, and internally threaded to receive the terminal threaded portion of the said pipe section.

1,680,500. TEMPLATE. WILLIAM A. COTES, Lansing, Mich., assignor to Reo Motor Car Company, Lansing, Mich., a Corporation of Michigan. Filed Aug. 20, 1927. Serial No. 214,419. 10 Claims. (Cl. 101—114.)



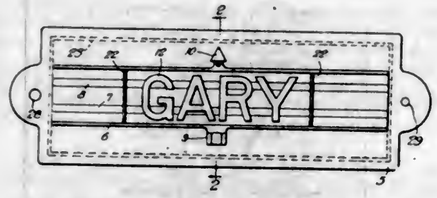
1. In an apparatus of the character described, the combination with a work piece and a source of vacuum, of a flexible template held in place on said work piece by said vacuum.

1,680,501. LOOM HARNESS MECHANISM. MICHAEL CONINGSWOOD, Clifton, N. J. Filed Nov. 26, 1926. Serial No. 150,806. 9 Claims. (Cl. 139—84.)



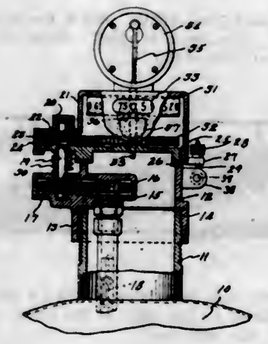
1. In a device of the character described the combination of a harness-frame, a jack, a connecting medium operatively connecting the harness frame and the jack, a cam block on the connecting medium and a pulley adapted to engage the cam block whereby in the longitudinal movement of the connecting medium the pulley will be engaged by the cam block producing a transverse movement of said cam block and connecting medium so that the harness-frame is moved farther than it would be with straight line motion of the connecting medium.

1,680,502. MAGNETIC PATTERN. FINIS R. CRAIG and JOHN J. OLING, Harvey, Ill., assignors to Production Pattern Company, Harvey, Ill., a Corporation of Illinois. Filed Dec. 11, 1926. Serial No. 154,177. 9 Claims. (Cl. 22—158.)



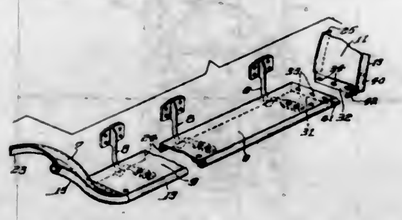
1. A magnetic pattern device for forming an impression in a mold comprising a body portion having a pair of spaced bars of magnetic metal thereon, a magnet for charging said bars, and pattern parts of magnetic metal extending across said bars and held in place by the magnetic attraction of said bars.

1,680,503. COMBINED SPEEDOMETER AND MOTOMETER. JOHN M. CURLEE, Kirkwood, Mo. Filed Apr. 20, 1925. Serial No. 24,642. 14 Claims. (Cl. 116—114.)



1. An attachment for a motor vehicle radiator having a filler neck, said attachment consisting of a fitting engageable with the filler neck, a speedometer indicator supported by the fitting and a motometer also included in the attachment and supported by the fitting, said speedometer indicator and motometer being thus located at substantially the same point for simultaneous observation.

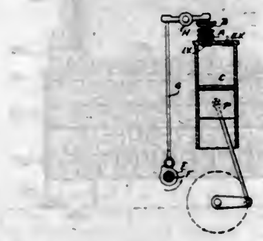
1,680,504. MEANS FOR INCREASING THE STRENGTH OF SHEET-METAL ARTICLES. HERMAN Z. CUTLER, Camden, N. J. Filed Nov. 23, 1923. Serial No. 676,513. 13 Claims. (Cl. 280—153.)



1. In a device of the class described the combination with a guard structure, of a protector for the edge thereof, formed of sheet material shaped to form a rigid metal

reinforcing tube having a longitudinally disposed portion folded to provide a pocket to receive the free edge of said guard structure and extended to underlap said guard structure and rigidly secured thereto.

1,680,505. INTERNAL-COMBUSTION ENGINE. FRANCIS DE LAUTOUR, Wellington, New Zealand. Filed Jan. 28, 1926, Serial No. 84,356, and in New Zealand Jan. 29, 1925. 10 Claims. (Cl. 123—1.)

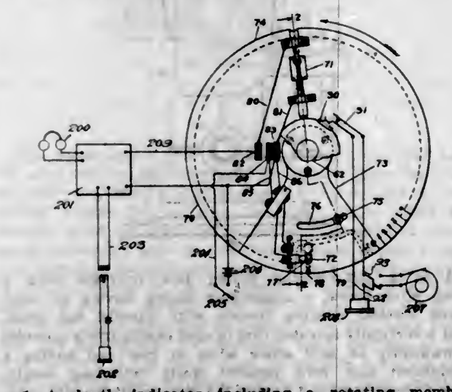


1. The method of operating an internal combustion engine which comprises introducing a swirling charge, expanding the charge by increasing the volume of the space into which it has been introduced, and then compressing said charge.

1,680,506. METHOD OF PURIFYING WATER. RALPH B. DERR, Oakmont, Pa., assignor, by mesne assignments, to National Aluminate Corporation, Chicago, Ill., a Corporation of Delaware. Filed Sept. 20, 1927. Serial No. 220,889. 6 Claims. (Cl. 210—23.)

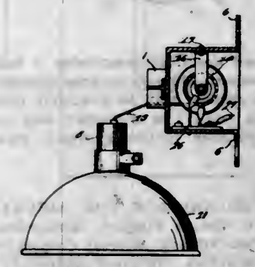
1. The method of purifying water containing less than about fifty parts per million of magnesium sulphate, comprising mixing with the water a water-softening compound and sodium aluminate, and activating the formation of a coagulant from the sodium aluminate by adding to the water a material capable of producing magnesium ions and sulphate ions.

1,680,507. APPARATUS FOR MEASURING DISTANCE. HERBERT GROVE DORSEY, Gloucester, Mass., assignor to Submarine Signal Corporation, Boston, Mass., a Corporation of Delaware. Filed Nov. 12, 1925. Serial No. 68,695. 8 Claims. (Cl. 177—386.)



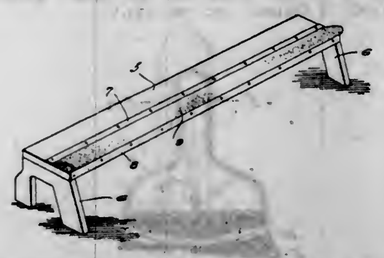
1. A depth indicator including a rotating member, means for driving the same at a constant and known speed, a sound reducer, a sound receiver, circular scales, two visual indicators carried by said rotating member and moving in cooperation with the scales, means whereby rotation of the rotating member causes periodic operation of the sound producer at a definite position of the indicators with reference to the scales, one of said indicators for deep sounding, the other of said indicators capable of producing a line of light on the scale in response to the operation of the sound receiver for shallow sounding, an audible indicating means operative in response to the operation of the sound receiver to cooperate with the deep sounding indicator and means to change the position of one of said indicators with reference to the scales whereby the sound signal will be produced when said indicator is in a different position.

1,680,508. ILLUMINATING LAMP FOR AUTOS. VIRGIL S. DOWNING, Jackson, Miss. Filed July 27, 1927. Serial No. 208,852. 3 Claims. (Cl. 240—8.18.)



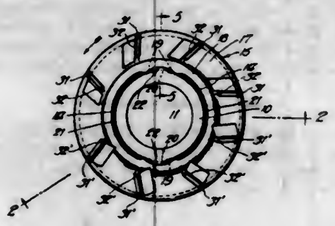
2. In a device of the character described, a channel shaped bracket adapted to be attached to a support with two parallel flanges extending horizontally and having a central opening in its vertical leg, arms depending from the upper flange of the bracket, a drum rotatably supported thereby, a conductor wound about the drum and adapted to be withdrawn therefrom, an extensible illuminating lamp attached to the conductor and normally supported in the opening, and means operative upon withdrawal of the conductor to rewind the latter upon manual release of the illuminating lamp, collector rings carried by the drum and having electrical connection with the conductor, brushes engaging the collector rings, a switch carried by the bracket and electrically connected with the brushes, a source of electrical energy having electrical connection with the conductor and switch.

1,680,509. KNEE CUSHION FOR CHURCH PEWS. DANIEL FRANCES DUCY, Decatur, Ill. Filed Jan. 15, 1927. Serial No. 161,343. 1 Claim. (Cl. 155—166.)



In combination, a kneeling bench, a strip of metal of a length equivalent to the length of the bench and of a width materially less than that of the bench rigidly secured to the top of the bench adjacent the forward edge thereof, a depending flange formed on the forward edge of the strip for rigid attachment to the forward longitudinal edge of the bench, and a cushion arranged on the upper face of the strip of metal, the top surface of the cushion being inclined downwardly in a rearward direction, so that the feet will rest upon the floor while kneeling upon the cushion.

1,680,510. VALVE-SEAT REAMER. WILLIAM H. EVANS, Chicago, Ill., assignor to Evans Flexible Reamer Corporation, Chicago, Ill., a Corporation of Illinois. Filed Nov. 27, 1925. Serial No. 71,682. 13 Claims. (Cl. 29—103.)



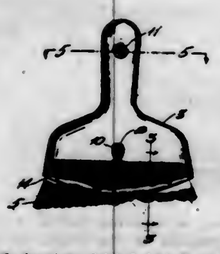
1. A cutter head described comprising a hollow arbor and a cutter member yieldingly secured thereto, whereby the entire cutter member may be angularly displaced out of normal position relative to said arbor, said cutter member having an annular portion provided with integral outstruck teeth.

1,680,511. UNDERCARRIAGE FOR AIRCRAFT. ANTHONY HERMAN GERARD FOKKER, Amsterdam, Netherlands, assignor to Atlantic Aircraft Corporation, a Corporation of New Jersey. Original application filed May 25, 1923, Serial No. 641,324. Divided and this application filed Sept. 10, 1925. Serial No. 55,444. 10 Claims. (Cl. 244—2.)



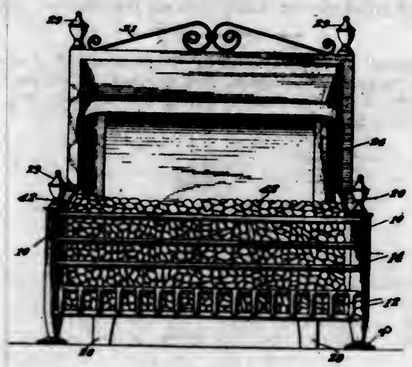
1. An undercarringe for an airplane having a full floating axle capable of yielding in all directions to absorb landing, rebound and side load shocks.

1,680,512. BRISTLE-HOLDING DEVICE FOR BRUSHES AND BROOMS. LAWRENCE E. GOELLER, Circleville, Ohio. Filed Jan. 30, 1928. Serial No. 250,495. 3 Claims. (Cl. 15—171.)



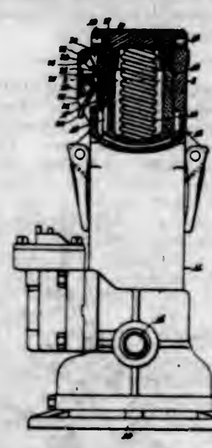
1. In a brush having folded bristles, means clamping the bristles in position comprising a pair of clamping members, tension members extending through the clamping members, supporting means for the bristles between the clamping members consisting of a suitably formed band member extending through the bristle fold, means supporting the band between the clamping members consisting of a loop on the band member adapted to receive a tension element.

1,680,513. FIREPLACE. GEORGE W. GUE, Chicago, Ill. Filed Jan. 9, 1925. Serial No. 1,435. 6 Claims. (Cl. 219—45.)



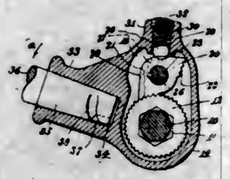
1. A fire place unit comprising an illuminated imitation grate, a source of radiant heat above said grate, a continuously curved reflector below said source set to reflect radiant heat out over the top of said grate, a reflecting hood above said source, said hood comprising a first portion adjacent the source set to reflect directly out over said grate and a second potion remote from said source set to reflect back onto the reflector below said source, and a second hood spaced over said first hood to define an air passage.

1,680,514. LIFTING JACK. FRANK L. GORMLEY, Brookline, Mass., assignor to The Buda Company, Harvey, Ill., a Corporation of Illinois. Filed Feb. 6, 1926. Serial No. 86,418. 12 Claims. (Cl. 254—103.)



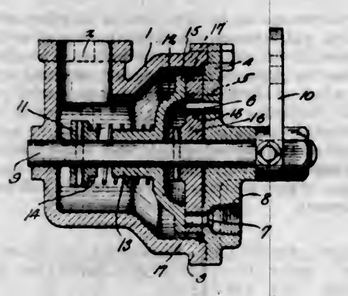
1. In a self-lowering lifting jack provided with a steep pitch screw, a supporting casing having an elongated vertical opening therein with parallel flat sides, and a vertically movable ram in said casing freely movable downwardly on said screw when at rest and having a peripheral slot with parallel walls extending lengthwise thereof, said slot having the same width as said opening; a flatsided key freely movable in said casing opening in a radial path and in contact with the side walls thereof; an actuating lever pivoted at its upper end to said casing and depending from its pivot adapted to move said key outwardly from said slot; and means in the same plane with the key for automatically returning said key into said slot when said lever is released.

1,680,515. RATCHET MECHANISM FOR LIFTING JACKS. FRANK L. GORMLEY, Brookline, Mass., assignor to The Buda Company, Harvey, Ill., a Corporation. Filed Dec. 21, 1926. Serial No. 156,109. 15 Claims. (Cl. 192—43.1.)



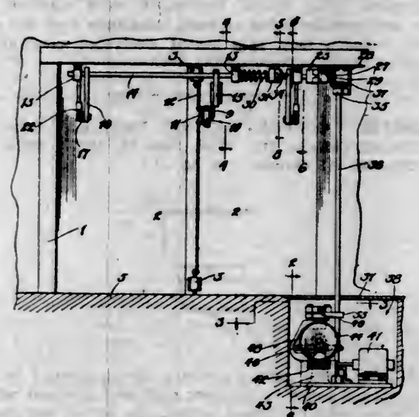
1. The combination with the driving shaft of a lifting jack; an actuating ratchet therefor secured thereto; a casing surrounding said ratchet and movable about the axis of said shaft; a double ended pawl pivotally mounted in said casing and having a plurality of teeth at opposite ends adapted to engage the ratchet teeth, one set of teeth being for lifting and the other set for lowering the load supported by said jack; and means within said casing for retaining only the lifting set of teeth in engagement with the ratchet or both sets of teeth disengaged from the ratchet teeth.

1,680,516. ENGINE VALVE. LAWRENCE R. GRAMES, Wellsville, N. Y., assignor of one-half to John N. Bryson and R. B. Murray, Wellsville, N. Y. Filed Oct. 13, 1926. Serial No. 141,862. 1 Claim. (Cl. 261—50.)



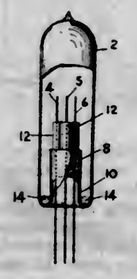
The combination with a casing having an outlet and an open side spaced therefrom, of a cover plate for closing the open side, a shaft journaled therein and in the casing, means for rotating the shaft, there being an annular series of apertures in the cover plate, said series being concentric with the shaft, said plate having a fuel port opening therethrough, a valve disk rotatable with the shaft having an annular series of apertures movable into and out of register with the air and fuel ports in the cover plate, cooperating means upon the cover plate and disk for limiting the back and forth rotation of the disk relative to the cover plate, a slidable valve on the shaft having its marginal portion normally bearing against and closing the apertures in the disk, and yielding means carried by the shaft and engaging the slidable valve for holding said valve pressed normally against the disk, said slidable valve being shiftable by suction through the registering apertures in the disk and cover plate to admit fuel to the casing when the valve is subjected to suction from the outlet of the casing.

1,680,517. GARAGE-DOOR-OPERATING MECHANISM. JOSEPH B. HARRIS, Washington, D. C. Filed Mar. 22, 1927. Serial No. 177,442. 2 Claims. (Cl. 268—63.)



1. A door operating device, comprising an operating shaft, operating arms mounted on said shaft, connections between said arms and the doors to be operated, a rotary source of power for operating said doors, means operable by said source of power, for changing the rotary motion into a reciprocating motion, and applying said reciprocating motion to the operating shaft, and reciprocating said shaft to produce the opening and closing operation of the doors, means operated by the last named means for controlling the opening and closing movement of said doors in a predetermined manner, and a manually operable clutch carried by the operating shaft having disengageable connection with the first named means and operable to selectively permit independent manual operation of said doors relative to said means and the source of power.

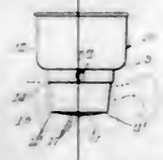
1,680,518. PROTECTIVE DEVICE. WILLIAM HENRY TOWNE HOLDEN, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed July 25, 1921. Serial No. 487,537. 2 Claims. (Cl. 250—27.5.)



1. A protector for electric circuits comprising a gas tight envelope having a plurality of symmetrical electrodes sealed through one end thereof and extending thereinto in substantially parallel closely spaced relation, insulating sleeves about said electrodes adjacent the point at which the electrodes are sealed through the envelope, a filling of rare gas within said envelope at a

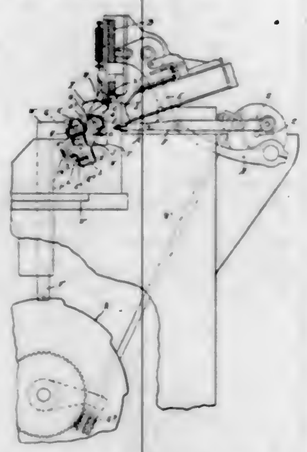
reduced pressure and a quantity of mercury contained therein, said electrodes being of such size and of such material as to be heated to an electron emitting temperature when the break down voltage is exceeded, said electrodes being spaced sufficiently close together and the gas pressure being of such magnitude that the electron emission from said heated electrodes substantially reduces the impedance of the device.

1,680,519. COFFEE-MAKING DEVICE. JOHN D. HOUCK, Chicago, Ill. Filed June 25, 1927. Serial No. 201,359. 11 Claims. (Cl. 53—3.)



1. In a coffee making device, a casing adapted to contain ground coffee in its lower part, and provided with a perforated slightly dished bottom, the bottom adapted to have a sheet of filtering material supported thereon, and a spreader adapted to be removably held above said bottom.

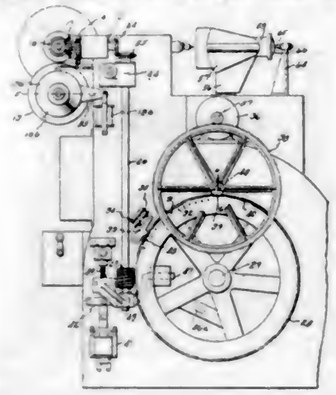
1,680,520. WORK HOLDER FOR BRUSH MACHINES. CONRAD JOBST, Toledo, Ohio, assignor to The Toledo Automatic Brush Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 2, 1924. Serial No. 735,466. 5 Claims. (Cl. 300—11.)



1. In a brush machine, a work holder mounted for rotative adjustment about transverse axes, means for adjusting said holder step-by-step about one of said axes through a plurality of revolutions, and means operating automatically between successive revolutions in timed relation to said first mentioned means for adjusting said holder step-by-step about the other of said transverse axes.

1,680,521. UNIVERSAL BRUSH MACHINE. CONRAD JOBST, Toledo, Ohio, assignor to The Toledo Automatic Brush Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 19, 1925. Serial No. 10,291. 14 Claims. (Cl. 300—11.)

1. In combination, tuft setting mechanism, a work holder for presenting brush backs thereto, driving mechanism for said work holder timed relative to the tuft setting mechanism and including cams for imparting step-by-step movements to said work holder, and means



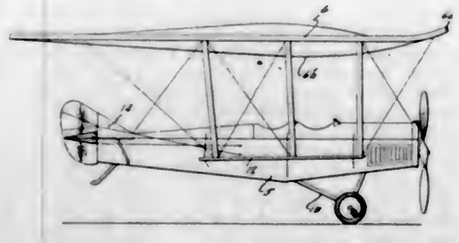
adjustably controlled from said cams to return the work holder to its initial position after a predetermined number of steps.

1,680,522. METHOD OF AND MILL FOR ROLLING STRIPS AND SHEETS. LLOYD JONES, Millville, N. J., assignor to Acme Steel Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 19, 1924. Serial No. 687,337. 5 Claims. (Cl. 29—18.)



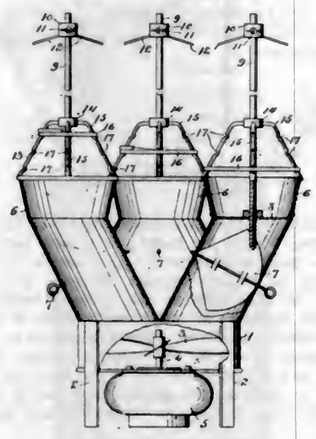
1. The method herein described of manufacturing strips or sheets, which consists in subjecting a slab to the action of a plurality of pairs of horizontal rolls whereby the slab is reduced in thickness and elongated, effecting a reduction in the width of the slab, superposing one rolled portion on another, subjecting such superposed portions to the action of a plurality of pairs of horizontal rolls to reduce such portions to the desired gauge, and subjecting the edges of the superposed portions to the action of rolls whereby the edges of such portions are brought into and maintained in alinement.

1,680,523. AEROPLANE. ORSEMUS L. R. JONES, Detroit, Mich. Filed Jan. 16, 1925. Serial No. 2,828. 5 Claims. (Cl. 244—12.)



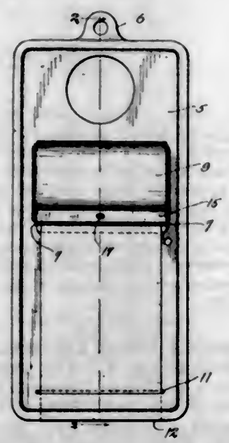
5. In an aeroplane, the combination with a plane having a wide central portion and pointed front and rear extremities provided with a central keel extending the entire length of the plane and inclined frour a lowered central portion upwardly to the front and rear extremities of the plane, of a body arranged beneath the plane with its longitudinal axis in vertical alignment with the central keel of the plane, and connecting members arranged between the sides of the body and the plane, the body being formed with a flat bottom throughout its entire length and serving as an auxiliary supporting surface in contact with the air currents.

1,680,524. CLOTHES DRIER. SAMUEL KILLMNICK, Picher, Okla. Filed July 25, 1927. Serial No. 208,280. 7 Claims. (Cl. 34—26.)



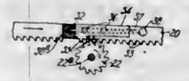
1. In a clothes drier, a tube, means for forcing air therethrough, means for supporting a garment at and in central alinement with the discharge end of said tube, means at the said discharge end having an outer surface converging from said discharge end and having external notches at different transverse diameters thereof and adapted to be embraced by and to hold distended over said discharge end the adjacent end of the garment, and a resilient transversely divided ring adapted to embrace the outer side of the garment and adapted to be seated in any of said notches and to hold the garment against said surface at different diameters thereof.

1,680,525. KITCHEN MEMO PAD. CLARA M. KIZER, Omaha, Nebr. Filed Nov. 19, 1927. Serial No. 234,514. 1 Claim. (Cl. 281—6.)



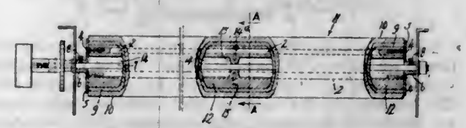
A roll holder including a base, a curved roll supporting member mounted on the base, a pivoted guard formed of substantially wide material, supported on the roll holder at the upper edge thereof, said roll holder having an opening, said guard having a boss to be fitted in the opening to lock the guard in position and said base having a slot to receive ppaer supported by the roll holder.

1,680,526. TYPEWRITING MACHINE. ADOLPH G. KUPETZ, New Rochelle, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed July 15, 1924. Serial No. 726,075. 14 Claims. (Cl. 197—176.)



1. In a typewriting machine, the combination of a power-driven carriage, a carriage-feeding mechanism including a carriage-rack engaging a pinion controlled by ecapement-devices for step-by-step letter-space-feeding distances, and means movable within the rack to automatically effect a letter-space movement of the carriage independently of the escapement-devices.

1,680,527. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Original application filed Aug. 17, 1923, Serial No. 657,870, now Patent No. 1,597,321, dated Aug. 24, 1926. Divided and this application filed Oct. 10, 1925. Serial No. 61,658. 9 Claims. (Cl. 197—147.)



1. A platen having a substantially hard cylindrical outer shell forming a suitable surface to give clear-cut type-impressions, and a relatively resilient plastic core to deaden the impact, to absorb the vibration and to lessen the noise incidental to the type striking the platen surface, including a preassembled re-enforcing framework around which the core is moulded to form a hollow center and a re-enforced rib midway between the ends thereof to support the middle portion of the platen.

1,680,528. DISPLAY FORM. JOSEPH A. LALONDE, Montreal, Quebec, Canada. Filed July 29, 1926. Serial No. 125,758. 1 Claim. (Cl. 223—18.2.)

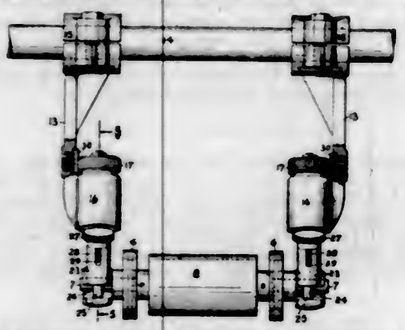


A pneumatic hollow display form having a single resilient wall of unequal thickness at predetermined locations in its construction, thereby causing the form to variably expand in the forcing of a fluid under pressure into the form.

1,680,529. METHOD OF TREATING WOOD. GEORGE A. RICHTER, WALLACE B. VAN ARSDEL, and JOHN G. GOSSELINK, Berlin, N. H., assignors to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Apr. 8, 1927. Serial No. 182,173. 9 Claims. (Cl. 99—12.)

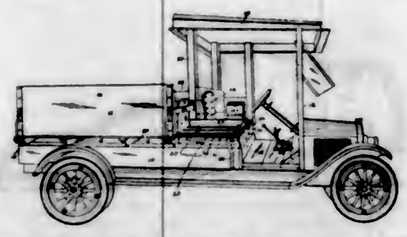
9. A method of staining wood, which comprises heating wood to a temperature above 100° C., thereby vaporizing its free moisture content and expelling and displacing its air content with steam; confining and ammoniating such wood, while hot, with gaseous ammonia under pressure, thereby resulting in a partial condensation of the steam in situ in such wood, and the penetration of the ammonia into and the staining of the wood; and removing such stained wood from confinement while in heated condition.

1,680,530. INKING DEVICE FOR PRINTING AND EMBOSSING MACHINES. WALTER C. FELLOWS, Philadelphia, Pa., assignor to C. R. Carver Company, a Corporation of Pennsylvania. Filed Dec. 11, 1926. Serial No. 154,085. 9 Claims. (Cl. 101—360.)



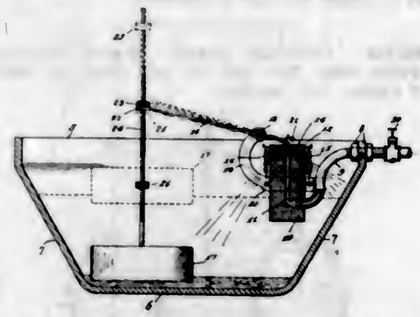
1. In a printing press, an ink fountain, a printing die, means for shifting the latter into and out of ink receiving position, and an inking roller for transferring ink from the fountain to the printing die, combined with means for operating the inking roller consisting of a rockshaft, two arms extending therefrom in the same direction and spaced apart a greater distance than the length of the inking roller and each provided with supporting means for the inking roller including an adjustable part screw threaded into the lower part of the arms, a spring actuated stem therefor restricted as to its movement in one direction while being yieldingly supported in the other direction, and a head secured to the stem and forming a bearing support for a shaft carrying the inking roller, whereby the inking roller is limited in its movement away from the rockshaft while being yieldingly movable in a direction toward the rockshaft.

1,680,531. TRUCK. FRANK H. FIELD, Jamestown, N. Y. Filed Sept. 13, 1926. Serial No. 135,262. 4 Claims. (Cl. 296—1.)



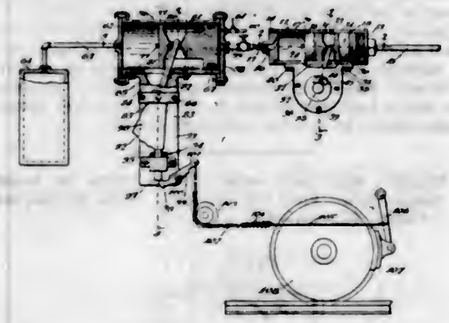
1. In a vehicle the combination of a driver's seat, a body comprising a main part and a delivery platform forming an extension thereof at the side of said driver's seat, and a vertically removable barrier separating said delivery platform from the main part of the body.

1,680,532. AIR MOISTENER. LOUIS A. FLEURY, Indianapolis, Ind. Filed Mar. 28, 1927. Serial No. 178,961. 2 Claims. (Cl. 137—104.)



2. An air moistener comprising a fluid receptacle, means for supplying fluid to the receptacle, a valve body through which the fluid is adapted to pass, means for opening and closing the passage through the valve body, a lever connected to said opening and closing means, means upon which the lever is fulcrumed, a stem to which the lever is slidably connected, adjustable means on the stem adapted when moved by the stem to engage and move the lever, and a float connected to the stem for actuating the lever to operate said opening and closing means as the fluid in the receptacle is diminished and replenished.

1,680,533. AIR-BRAKE APPARATUS. CRUTHERS I. FRANTZ, Los Angeles, Calif. Filed July 11, 1927. Serial No. 204,595. 14 Claims. (Cl. 303—32.)

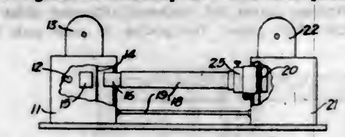


7. In an air brake, a control valve having a cylinder and a sliding piston with a passage for air therethrough controlled by valves, an air brake cylinder having a brake piston with a passage for air therethrough controlled by a second set of valves, a storage reservoir connected to the brake piston, a release valve operated by a control valve, means actuated by the brake piston in the brake cylinder to apply brakes by movement of the brake piston, due to the air in the reservoir, said means maintaining the brakes applied independent of any change in the pressure of air in said reservoir.

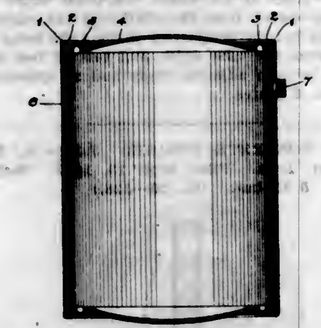
1,680,534. DOUBLE PRISM-REGISTERING DEVICE. FRANK E. GARBUTT and RALPH G. FRAR, Los Angeles, Calif., assignors to Famous Players-Lasky Corporation, a Corporation of New York. Filed Mar. 10, 1923. Serial No. 624,283. 5 Claims. (Cl. 88—24.)

1. In a device of the character described: a first element having an image thereon; a second element; and optical means for throwing on any portion of said second element an enlarged reproduction of any portion of the

image on said first element, said means comprising a plurality of prisms between said elements, means for changing the angular relationship of one of said prisms to another of said prisms, and means permitting said prisms to be rotated without changing their angular relation to each other.

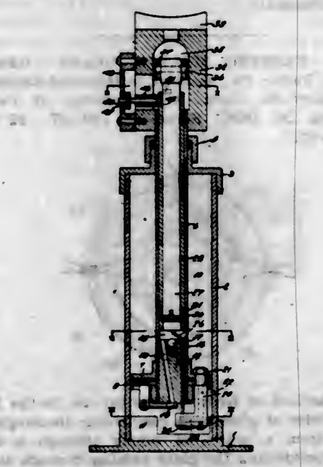


1,680,535. WELDED SHEET-METAL CONTAINER. HARTWELL H. GARY, Birmingham, Ala. Filed Nov. 19, 1925. Serial No. 70,193. 2 Claims. (Cl. 220—67.)



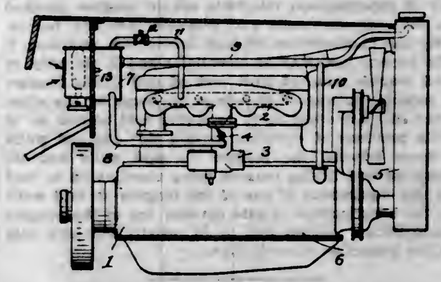
1. A welded sheet metal container, composed of a tubular shell, and heads, each having an outwardly disposed marginal flange adapted to fit snugly within an end of the tubular shell, and a weld joint connecting the edge only of said flange to the container, each head having a deep bead which is interposed between, and is adapted to form an expansion joint connecting the flanged margin of the bead with its central panel, and lies closely adjacent to said flange.

1,680,536. HYDRAULIC JACK. THEODORE GENSMER, Portland, Oreg. Filed Mar. 30, 1925. Serial No. 19,298. 4 Claims. (Cl. 188—9.)



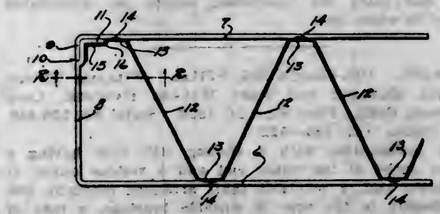
1. A jack of the class described, consisting in the combination of a cylinder, a plunger within the cylinder having a tubular rod extending axially outward of the cylinder and forming a pump cylinder, said rod having a plug in its lower end formed with passages affording communication between the chamber in the cylinder above said plunger and the interior of said rod and from the interior of said rod to the cylinder chamber below said plunger, respectively valves for each of said passages admitting of the passage of liquid from above the plunger to below the plunger only, an angularly shaped fitting secured to said plunger formed with a passage affording a by-pass from below the plunger to the space above the plunger, a valve normally closing the passage of liquid upwardly in said by-pass, a trip-rod engaged with said by-pass valve and extending through said plug to the interior of said tubular rod, two concentric pistons operatively mounted in said tubular rod extending outwardly of said cylinder, a head on said tubular rod above said cylinder having a chambered opening therein, a lever extending through said head having a link connection with said head and operatively connected to the inner said piston, said lever being formed with a cylindrical end, an extension-handle rotatively connected to said cylindrical lever-end provided with a stop adapted to limit the downward stroke of said lever-handle in one of its rotary positions wherein said pistons will not engage said trip-rod, and means for connecting said pistons together to act in unison consisting in a pin slidable in said outer piston and receivable in a recess in said inner piston.

1,680,537. SALVAGE GAS GENERATOR FOR INTERNAL-COMBUSTION ENGINES. WALTER W. GROOMS, Cleveland, Ohio. Filed June 22, 1925. Serial No. 38,614. 3 Claims. (Cl. 123—25.)



1. The combination with an internal combustion engine having a fuel inlet and a cooling system, of means for delivering a fuel mixture to the inlet comprising a carburetor communicating with the inlet, a mixing chamber communicating with the carburetor, an ozoniser, means for admitting air to the ozoniser and from the ozoniser to the mixing chamber, and pipes connecting the mixing chamber to the upper portion of the water cooling system above the level of the liquid therein and to the crank case of the engine.

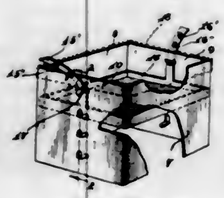
1,680,538. METAL-DOOR CONSTRUCTION. ARTHUR R. GROSS, St. Paul, Minn., assignor to Gross Metal Products Company, Minneapolis, Minn., a Corporation of Minnesota. Filed June 18, 1927. Serial No. 198,488. 5 Claims. (Cl. 189—46.)



1. A sheet metal unit comprising a front plate and a back plate laterally spaced the one from the other, said plates having edge portions extending laterally toward

each other to substantially edgewise abutting engagement, said front plate having a laterally and inwardly offset main angle member that spans the joint between said plates and fits in the corner of the back plate, and a truss rigidly secured to the back plate and having abutting engagement with the edge of the respective flange of the main angle member, said truss having a laterally and inwardly offset secondary angle member that fits within the main angle member.

1,680,539. BOX. ALI HADI, Springwells, Mich., assignor of two-thirds to Ted Gruska and John Gruska, and one-third to Walter Ray, Fordson, Mich. Filed July 24, 1926. Serial No. 124,765. 1 Claim. (Cl. 206—56.)



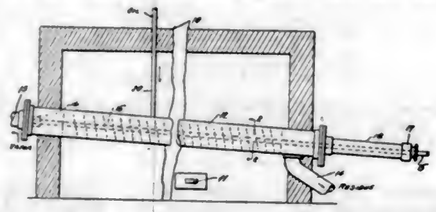
A box, comprising: side and end walls; a bottom slidably positioned between said walls; lifting tongues projecting upwardly from opposite sides of said bottom and projected through slits formed in opposite walls; a plurality of superimposed relatively spaced tongues punched from said opposite walls and pressible inwardly for engaging the undersurface of said bottom for retaining it in its various positions of elevation; and a plurality of spaced tongues punched from each of said lifting tongues and pressible outwardly therefrom for engaging the edges of said slits for assisting in retaining said bottom in its various positions of elevation in said side and end walls, the space between the tongues on said walls and the tongues on said lifting tongues being coordinated so that upon the engagement of one of the tongues on said walls with the undersurface of said bottom, one of the tongues on said lifting tongues will be in registration with said slits for projection therethrough.

1,680,540. METHOD OF TREATING AND UTILIZING THE BLACK LIQUOR OBTAINED IN THE MANUFACTURE OF SODA AND SULPHATE CELLULOSE. ERIK HÄGGLUND, Abo, Finland. Filed June 18, 1927, Serial No. 199,873, and in Sweden June 21, 1926. 2 Claims. (Cl. 23—46.)

1. The method of treating and utilizing the black liquor obtained in the manufacture of soda and sulphate cellulose which consists in subjecting said liquor to a heat and pressure treatment adapted to precipitate the main portion of organic substances therein as carbonaceous and pitchy material, then separating the liquor from the precipitate, evaporating said liquor to dryness, subjecting the dry residue to fractional lixivation so as to obtain therefrom an acetate solution, separating said acetate solution from the dry residue, causticizing the residue and using the causticized residue as causticizing agent in white lye.

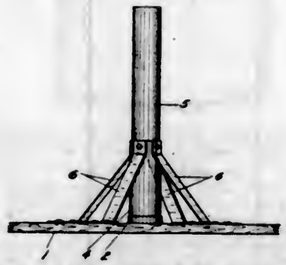
1,680,541. OIL-CRACKING STILL. WILLIAM THORNHILL HANCOCK and JOHN WALKER HANCOCK, Long Beach, Calif. Filed Sept. 20, 1926. Serial No. 136,443. 1 Claim. (Cl. 196—122.)

In combination with a sloping still tube having a vapor outlet at its higher end and a residue outlet at its lower end, a rotatable shaft arranged centrally longitudinally in the tube in suitable bearings, a tube of reduced diameter extending centrally from one end of the still tube, a stuffing box at the end of said smaller tube, and the shaft extending out through said stuffing, a plurality of ball confining disks set rigidly on said shaft and longitudinally spaced from each other, said disks lying in parallel planes making acute angles with the shaft, pairs of ball carrying plates set between adjacent disks in a radial longitudinal plane, the plates of each pair being



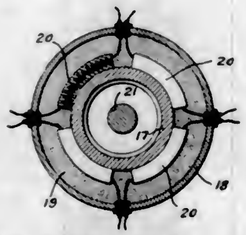
at opposite sides of the shaft, the inner edges of the plates being spaced from the shaft and the outer edges of the plates and the peripheries of the disks being slightly spaced from the tube walls, and sets of free balls in the spaces between adjacent disks and at opposite sides of the pairs of plates.

1,680,542. CONCRETE FORMER. JAMES A. HINTER, Davenport, Iowa. Filed Sept. 15, 1927. Serial No. 219,638. 5 Claims. (Cl. 25—128.)



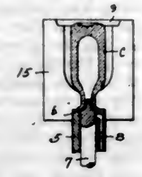
2. A concrete former comprising a cup shaped member to be secured to a concrete form board, and a tube connected to the cup, and having braces secured thereto remote from the cup, said braces extending away from the tube a distance to be secured to the form board and brace the tube to keep it from being pushed out of position accidentally.

1,680,543. FEEDING MOLTEN GLASS. GEORGE E. HOWARD, Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Aug. 20, 1926. Serial No. 130,527. 12 Claims. (Cl. 49—55.)



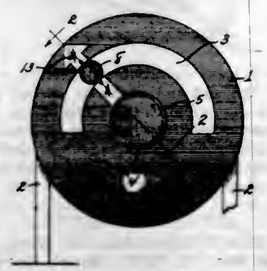
9. The method of feeding glass for use in the fabrication of articles of glassware, comprising discharging molten glass from a source of supply through a delivery outlet, and subjecting the glass passing through said outlet to a plurality of independently regulable temperature regulating influences respectively applied at different places located in the same plane and spaced about the central line of flow of the discharging glass.

1,680,544. METHOD OF BLOWING GLASSWARE. HENRY W. INGLE, Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Dec. 6, 1923. Serial No. 678,914. 5 Claims. (Cl. 49—80.)



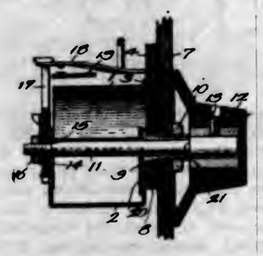
1. The process of making hollow glassware that comprises forming a parison in an inverted parison mold, removing the parison mold while leaving the parison supported at the parison-forming position, closing an inverted finishing mold around the said parison, reverting the said finishing mold containing said parison, and expanding said parison to fill the said finishing mold.

1,680,545. ROAD SIGN. NELSON S. JEWETT, Tulsa, Okla. Filed Jan. 22, 1927. Serial No. 162,861. 4 Claims. (Cl. 88—1.)



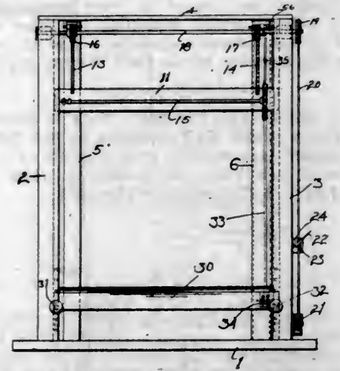
4. A road sign comprising a body, a centrally arranged reflector on the body, a second reflector adjustably mounted on the body so that it can be moved in an arc which is concentric with the first reflector and means for fastening the second reflector in adjusted position.

1,680,546. ELECTROSTATIC CONDENSER. FRANK O. JOHNSON, Chicago, Ill., assignor to Reliance Die & Stamping Company, Chicago, Ill., a Corporation of Illinois. Filed July 21, 1926. Serial No. 123,990. 3 Claims. (Cl. 175—41.5.)



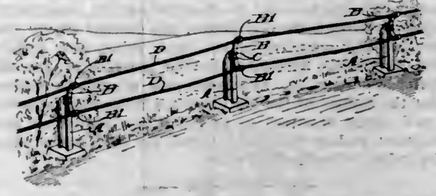
1. An electrostatic condenser including a bearing sleeve and a rotatable shaft journaled in the sleeve, said shaft having a shoulder in thrusting engagement with said sleeve exerted in one direction, the condenser having a condenser plate having one portion coupled with the shaft and another portion also in thrusting engagement with said sleeve exerted in a direction opposite to the thrusting engagement of the shoulder, one of said condenser plate portions being resilient to force the aforesaid thrusting engagements.

1,680,547. CURTAIN-TESTING FRAME. WALTER H. JUAY, Sausalito, Calif. Filed Mar. 16, 1927, Serial No. 175,754. Renewed Jan. 11, 1928. 3 Claims. (Cl. 73—51.)



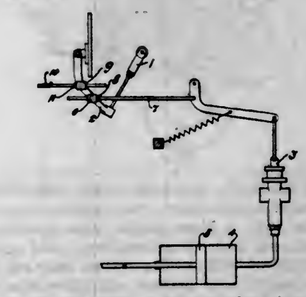
1. A curtain testing frame comprising a rectangular frame, a cross-bar carried at the lower portion of said frame, means whereby said cross-bar may be adjusted to various positions above the bottom of the frame, a pulley carried thereby, an upper bar slidable in said frame, means to raise and lower said bar to any desired position, a tape connected to the upper bar and passing under the pulley carried by the lower bar whereby the position of the upper bar with respect to the lower bar may be immediately determined, and means to hold the upper bar in a desired position.

1,680,548. HIGHWAY GUARD. PAUL L. KEISER, Douglassville, Pa. Filed Dec. 13, 1927. Serial No. 239,805. 4 Claims. (Cl. 256—1.)



1. A highway guard comprising a row of spaced posts, bow springs secured to the posts with their free ends extending outward from the posts towards the highway and a cable supported on the free ends of the bow springs.

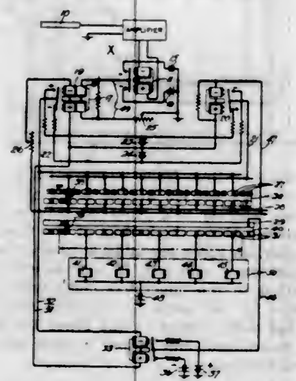
1,680,549. VACUUM BRAKE. WILLIAM O. KENNINGTON, London, England. Filed Nov. 16, 1927, Serial No. 233,606, and in Great Britain Sept. 11, 1926. 2 Claims. (Cl. 192—3.)



2. In combination, means for controlling the fuel supply of a motor, means for controlling a brake, manually

operable mechanism operable in two directions, in one direction actuating the fuel supply means and in the other diretion actuating the brake control means, said brake control means including a floating lever, a tension link connected to one arm of the lever for applying the brake and resilient means connecting the other arm of the lever to the manually operable means to react on the latter in proportion to the force of brake application.

1,680,550. SIGNALING SYSTEM. MARK B. KERR, Rosebank, Staten Island, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 19, 1926. Serial No. 117,047. 5 Claims. (Cl. 178—88.)



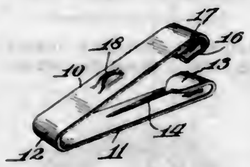
1. In a signaling system, the combination of two unbiased polar relays, each having a local energizing winding, an armature, and current supply contacts cooperating with the armature, a continually rotating distributor, an energizing circuit for the local winding of each relay extending through the distributor, the current supply contacts and the armature of the other relay, said circuits being alternately completed by the rotation of the distributor whereby the armatures are caused to vibrate under the control of the distributor, a line winding on one of said relays arranged to prevent the vibration of said armatures, and an energizing circuit for said line winding independent of said distributor.

1,680,551. CHAIN HOOK. FRANK B. KING, Wakefield, Mass. Filed Dec. 8, 1927. Serial No. 238,525. 1 Claim. (Cl. 24—232.)



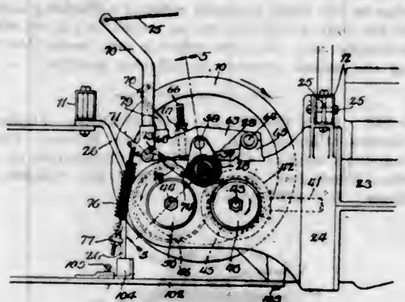
A securing device for anti-skid chains, comprising two elongated separable members, each having open hooks at its opposite ends, a hinge pintle engaged with one of said members and projecting therefrom, said pintle including a cylindrical body portion and an enlarged head at the outer end of the body portion, the other member having an elongated keyhole-shaped orifice including a larger portion formed to receive the pintle and its head, and a smaller portion formed to receive only the body portion of the pintle, the reduced portion of the orifice being countersunk at one end, to form an arcuate shoulder adapted to engage the pintle head and confine the pintle in said reduced portion, and a spring interposed between the members and normally pressing the same apart, said spring yieldingly confining the arcuate shoulder in engagement with the pintle head, the arrangement being such that the members may be pivotally connected by first inserting the pintle in the larger portion of the orifice, and then moving it into the smaller portion, thereby causing the pintle head to prevent separation of the members, and establishing a pivotal connection therebetween, the members being separable when the pintle is moved into the enlarged portion of the orifice, the hooks forming closed eyes arranged in different planes, one eye being divisible by a swinging movement, and the other by a sliding movement.

1,680,552. LINGERIE PIN. MARY E. KINTZ, Los Angeles, Calif. Filed Mar. 5, 1925, Serial No. 13,409, and in Germany Mar. 22, 1924. 6 Claims. (Cl. 24—73.)



6. A lingerie clasp comprising a pair of resilient arms connected at one end and normally spaced apart, a pin projecting inwardly from the free end of one of said arms so as to occupy a position between said arms, a keeper beneath which the free end of said pin may be engaged and means on the free ends of said arms for retaining the same in closed position.

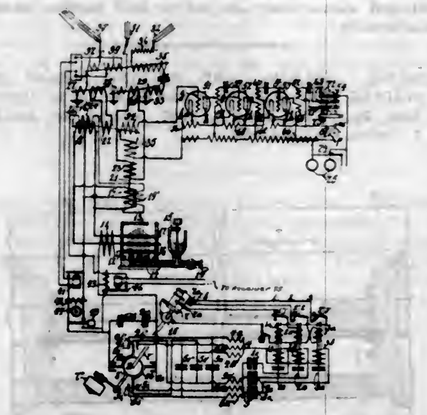
1,680,553. TRACTOR. ALVARO S. KROTZ, Janesville, Wis. Filed Nov. 10, 1922. Serial No. 600,154. 50 Claims. (Cl. 180—17.)



1. In a tractor of the class described having driving wheels located upon opposite sides thereof, and an engine for driving the tractor; two friction driving members driven in opposite directions about parallel transverse axes from said engine; two driving shafts supported to permit lateral displacement thereof at their inner ends and the outer ends of which are operatively connected with said driving wheels; two friction driven members carried one by the inner end of each shaft aforesaid; and means for laterally shifting the inner ends of said shafts and thereby moving said driven members into and out of engagement with said driving members.

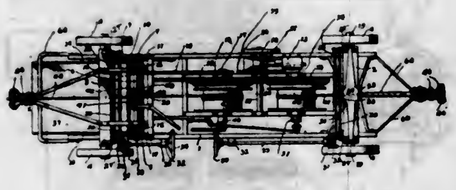
19. In a tractor of the class described having a transversely extending main frame, two reversible end frames detachably secured one to each end of said main frame and each of which is provided with two driving wheels; and means including sprocket chains through which both wheels at each side of the tractor may be driven in either the outside or inside position of said wheels.

1,680,554. SIGNALING BY HIGH-FREQUENCY CURRENTS. AUGUST J. KLONECK, New York, N. Y. Filed Apr. 18, 1921. Serial No. 462,322. 4 Claims. (Cl. 250—9.)



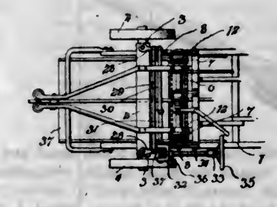
1. In a signaling system the combination, of a plurality of transformers, including a plurality of coils, a plurality of radiation circuits including coils upon certain of said transformers, of transmitting circuits having coils on certain of said transformers, the ratios of turns between said transmitting circuits and each of said radiation circuits being different from the other, means for adding resistance to certain of said radiation circuits adapted for making the resistance of said radiation circuits proportional to the ratios of turns of said coil sets between the transmitting circuits and said radiation circuits, all for the purpose set forth.

1,680,555. EXCAVATOR. ROBERT LAIR, Kingston, Wash. Filed June 15, 1926. Serial No. 116,178. 1 Claim. (Cl. 37—125.)



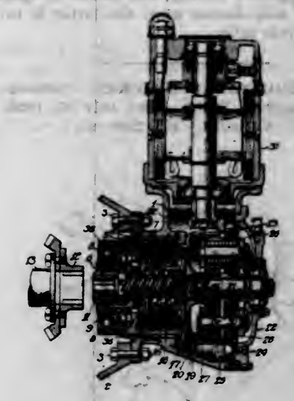
An excavating machine comprising a wheel-supported frame, means on the frame for effecting travel of the same, a scoop pivotally mounted between its ends adjacent its bottom upon the frame at one end thereof, a shaft mounted on the frame over the scoop, power means on the frame to rotate the shaft, a drum loose on the said shaft, means for locking the drum to the shaft, means to prevent reverse movement of the drum when unlocked from the shaft, and a cable secured to the drum and attached to the rear end of the scoop and arranged to unwind from the drum when the drum is unlocked from the shaft.

1,680,556. STEERING MECHANISM. ROBERT LAIR, Kingston, Wash. Original application filed June 15, 1926, Serial No. 116,178. Divided and this application filed Apr. 25, 1927. Serial No. 186,422. 1 Claim. (Cl. 280—93.)



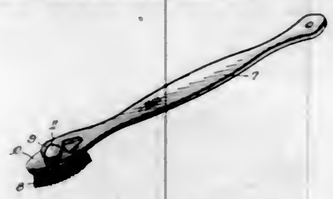
An excavating machine comprising a frame, spindles mounted vertically upon the frame, wheels carried by the lower ends of the spindles, cranks extending radially from the spindles and having sliding connection therewith, a connecting bar pivoted to and extending between said cranks, one crank being extended past the connecting bar, a link pivoted at its outer end to the free end of the extended crank and extending therefrom parallel with the connecting bar, a threaded rod pivoted to the end of the link, a steering shaft, a stationary bracket supporting one end of said steering shaft and the outer end of the threaded rod, and intermeshing pinions upon the shaft and the rod respectively within and held by said bracket, the pinion on the threaded rod having a threaded bore meshing with said rod.

1,680,557. ENGINE STARTER. RAYMOND P. LANSING, Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Mar. 29, 1926. Serial No. 98,153. 13 Claims. (Cl. 123—179.)



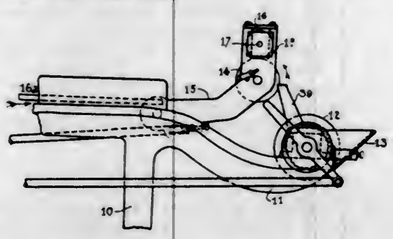
1. In an engine starter, a drive including a driving member mounted for longitudinal movement to engage a member of the engine to be started and for rotary movement to crank such engine member, a control member cooperating with the driving member for controlling its longitudinal and rotary movements, an actuating member, a friction clutch forming the driving connection between the control member and the actuating member, and means governed by the driving member for increasing the friction of such clutch in the cranking operation.

1,680,558. TOOTHBRUSH. GUY LIONEL LOISELLE, Evanston, Ill. Filed Oct. 28, 1927. Serial No. 229,300. 2 Claims. (Cl. 15—172.)



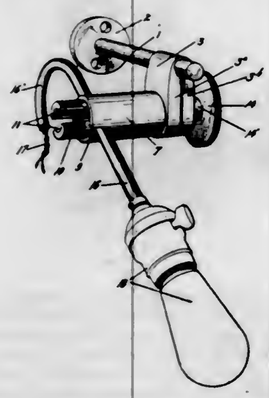
1. A toothbrush comprising a brush head and a handle therefor, and means on said handle comprising spring jaws having an internal head and a central polygonal boss on said head having a groove adapted to receive said head whereby said head may be detachably secured to said handle and its position in said handle changed without removal therefrom.

1,680,559. INKING MEANS FOR PRINTING MACHINES. FRANK WILLIAM MANTON, Toronto, Ontario, Canada. Filed July 7, 1927. Serial No. 204,043. 10 Claims. (Cl. 101—345.)



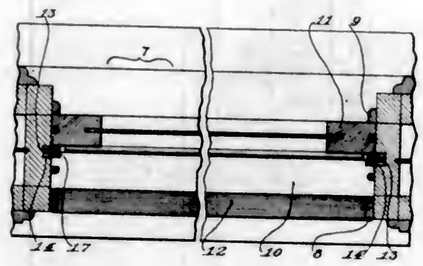
1. In a printing press, a movable ductor lowering to engage the fountain roller and rising into the path of the inking plate of said press, a vibrator adjacent said ductor and supported thereby, and means of spacing said vibrator from said ductor when the latter is in contact with said fountain roller.

1,680,560. ADJUSTABLE BRACKET. GEORGE A. MCDONALD, Pasadena, Calif. Filed July 15, 1926. Serial No. 122,569. 6 Claims. (Cl. 248—3.)



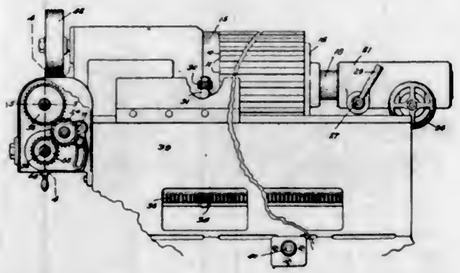
1. An adjustable bracket including a rod, a split member adjustably mounted thereon, a sleeve having an interfitting connection at its end with one side of said split member, a holding member telescoping through said sleeve and said split member, a spring in said sleeve operating to normally force said holding member outwardly, said holding member being slotted along its opposite sides and said sleeve being slotted in its end, and a hand nut and screw means for drawing said members together in clamping relationship, said holding member and said sleeve being adapted to hold another member in said slots.

1,680,561. HOLDING AND GUIDING MEANS FOR SLIDING PARTITIONS. CHARLES MCVEETY, Cheltenham, Pa. Filed June 4, 1927. Serial No. 196,446. 7 Claims. (Cl. 20—69.)



1. Means for mounting a pair of sliding partitions comprising a holder formed with substantially parallel sides and a fitting groove between the sides, a guide having extension ears on both sides of a tongue, the tongue being adapted to be sprung in position within said groove, mounting strips substantially right angular in form having one side secured to a partition, and the other side integral therewith arranged in a multithickness formation to fit within and be tensioned by one of said ears.

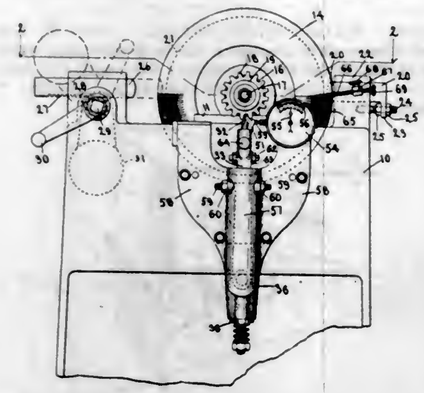
1,680,562. GEAR-GENERATING MACHINE. EDWARD W. MILLER, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a Corporation of Vermont. Filed Aug. 2, 1922, Serial No. 579,140. Renewed May 16, 1928. 12 Claims. (Cl. 90—3.)



1. A gear generating machine comprising a rotatable cutter head of a diameter many times greater than the thickness of the gear to be cut, a series of separate cutting elements mounted on said head parallel to the axis thereof and having cutting edges arranged in the outlines of rack teeth, all equidistant from the axis of the cutter and spaced longitudinally thereof equally to the tooth spacing of a rack conjugate to the gear to be cut, a work carriage movable parallel to the axis of the cutter, a work spindle rotatably mounted in the carriage, a stationary rack parallel to the cutter axis, a gear on the spindle in mesh with said rack, and mechanism for applying rotary motion to the spindle.

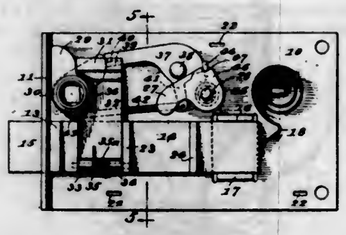
10. In a gear generating machine, a work carriage, a rotatable spindle in the carriage, a driving shaft, intermeshing gear elements on said shaft and spindle for rotating the latter, means by which rotation of the spindle causes translation of the carriage, oppositely rotating driving members loosely mounted on said shaft, a clutch splined to the shaft between said members constructed and arranged to be put into mesh alternately with each, and a clutch shifter including an arm arranged in the path of said carriage and adapted to be moved by the latter for moving the clutch from one of said driving members toward the other.

1,680,563. MACHINE FOR INSPECTING INVOLUTE CURVES. EDWARD W. MILLER, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a Corporation of Vermont. Filed Mar. 21, 1927. Serial No. 177,007. 17 Claims. (Cl. 78—51.)



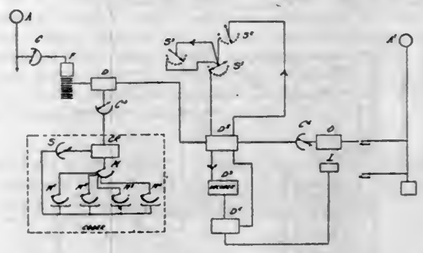
8. In a machine of the character described, a base, a lever, supporting means for the lever on said base engaging the lever in a frictionless manner at the pivot axis thereof, and a feeler or contact member carried by said lever and being adjustable thereon toward and away from said pivot support.

1,680,564. LATCH. RAYMOND G. MOORE, Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn. Filed May 8, 1926. Serial No. 107,542. 8 Claims. (Cl. 292—169.)



1. In a latch, a latch bolt, retracting means for said bolt including inside and outside manually operable means, a retracting member interposed between said outside retracting means and the bolt and connected to said bolt, and means associated with said inside retracting means adapted upon manipulation of the latter in a non-bolt-retracting direction to remove said retracting member from operative relation with said outside retracting means.

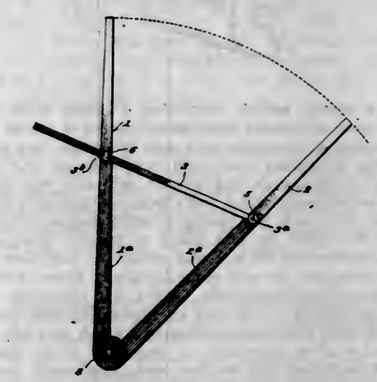
1,680,565. MULTIOFFICE TELEPHONE SYSTEM. JOHN E. OSTLINE, Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Apr. 9, 1923, Serial No. 630,726. Renewed Jan. 5, 1928. 69 Claims. (Cl. 179—27.)



28. In a telephone system, a group of trunk lines, means for connecting calling lines to said trunk lines at one end, finder switches having access to said trunk lines at the other end, and an automatic consecution controller for rendering simultaneously busy trunk lines selectable by said finders one at a time.

60. In a telephone system, trunk lines incoming to a manual office from another office, a plurality of cord circuits, means for transmitting telephone numbers over said trunk lines to an operator in said manual office from said other office, and means responsive to the act performed by the operator to complete the connection indicated by a received number for connecting the cord circuit in use by the operator with the one of said incoming trunk lines over which the number was received.

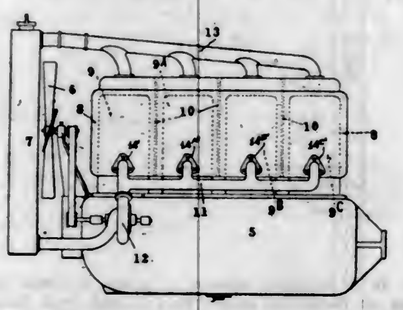
1,680,566. CALIPER. GORDON PARKER, Colorado Springs, Colo., assignor, by mesne assignments, to the People of the United States. Filed Oct. 1, 1927. Serial No. 223,400. 1 Claim. (Cl. 33—178.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625.)



The herein described caliper comprising two arms pivoted at one of their ends, a cross member with calibrations thereon pivoted to one arm intermediate its

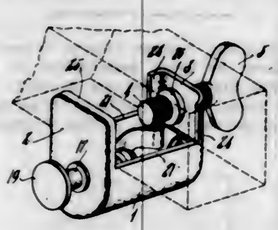
length, means pivotally and slidably connecting said member to the other arm intermediate its length, the pivot points for said cross member being equi-distant from the pivot point for the arms so as to form in different adjustments an isosceles triangle, whereby when the caliper is placed at right angles to the object to be measured and the said arms and said cross member are in contact with said object the diameter of said object will be indicated by said connecting means on the calibrations on said cross member.

1,680,567. INTERNAL-COMBUSTION ENGINE. MARSH PITZMAN, St. Louis, Mo. Filed Feb. 8, 1922. Serial No. 534,883. 7 Claims. (Cl. 123—173.)



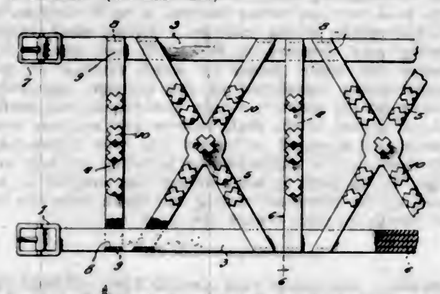
1. An internal combustion engine comprising a plurality of cylinders, water jackets for each of said cylinders, said jackets being separated at their discharge ends, and controlling means for the water circulating in said jackets including diaphragms provided with different sizes of openings and situated at the inlet ends of said jackets.

1,680,568. ELECTRIC SWITCH. JOSEPH POLLAK, Boston, Mass. Filed Jan. 2, 1926. Serial No. 78,840. 4 Claims. (Cl. 200—163.)



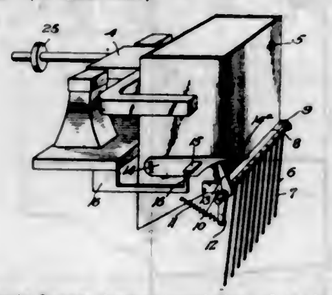
4. An electric switch comprising a casing made of a single piece of pressed sheet metal having a curved central portion with tangent side wall extensions, end walls, and lugs projecting from said end walls at the same side of the casing as, and beyond, said side wall extensions, the before described parts being all integrally joined together and each lug having integral flanges extending toward the other lug and joined in integral union with the end portions of the side wall extensions, and one of the lugs having also an end flange integrally joined with its side flanges and projecting toward the other lug, said other lug having a hole and an integral lip surrounding said hole and forming an extension thereof, said hole and lip being screw threaded, a clamping screw passing through said hole and meshing with the threads thereof, electrical contact members mounted within the casing on one of said end walls, and a complemental contact plunger passing through the opposite end wall of the casing and being movable therein, adapted to bridge across said contact members.

1,680,569. ANTISKID DEVICE. JOSEPH D. RICHIE, Casper, Wyo. Filed Dec. 8, 1926. Serial No. 153,422. 2 Claims. (Cl. 152—14.)



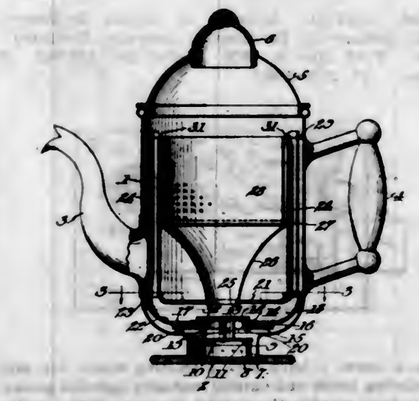
1. An anti-skid device for soft tread tires, the same comprising side straps notched in their outer edges, and cross straps having loops at their ends to receive the side straps which are passed therethrough, the outer ends of the loops being seated in the notches of the side straps and retained in place thereby.

1,680,570. SCALE-HOPPER BOTTOM. DAVID W. RIPLEY, Fresno, Calif., assignor to Sun-Maid Raisin Growers of California, Fresno, Calif., a Corporation of California. Filed June 27, 1927. Serial No. 201,948. 7 Claims. (Cl. 221—144.)



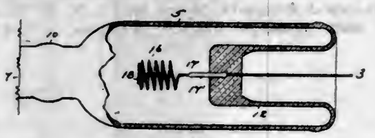
1. A scale hopper bottom consisting of a plurality of tines arranged parallel on a common plane, spaced apart, and attached at one end to a member adapted to rotate, said tines being constructed of material which adapt the tines to vibrate.

1,680,571. PERCOLATOR. JOHN N. ROUTSOS, Atlanta, Ga. Filed July 9, 1927. Serial No. 204,587. 5 Claims. (Cl. 53—3.)



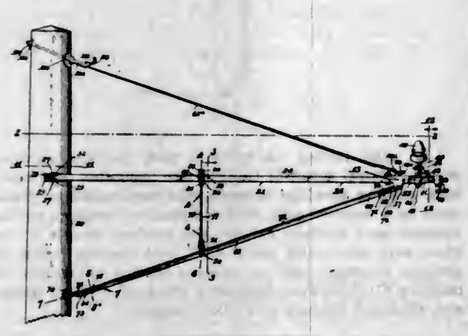
1. A percolator, comprising a foraminous strainer, a pressure chamber, tubular members connecting the strainer at top and bottom, a steam generating chamber arranged below the pressure chamber, and a triple valve interposed between the pressure chamber, the steam generating chamber and the bottom connection between the strainer and pressure chamber to control the flow of liquid through the percolator.

1,680,572. LUMINESCENT TUBE. ROY H. RUNDLE, Burlingame, Calif. Filed May 31, 1927. Serial No. 195,324. 2 Claims. (Cl. 176—126.)



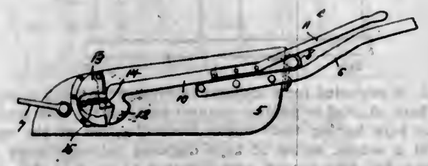
1. A luminescent tube having an electrode composed of tungsten filament in the form of a helix, the end of said helix being bent into an annulus.

1,680,573. MAST ARM. JOSEPH J. SHICKLUNA, Buffalo, N. Y. Filed Nov. 24, 1923. Serial No. 676,723. 13 Claims. (Cl. 189—38.)



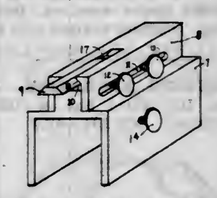
1. In combination with a mast, a mast arm including a reach having a hook at its upper side, an overhead support formed of wire detachably connected to said hook and extending upwardly and inwardly therefrom, said overhead support having a hook at its inner end, a securing fitting having an opening therein through which the hook of said overhead support is passed, and means for securing said securing fitting to said mast.

1,680,574. SELF-DUMPING ATTACHMENT FOR ROAD SCRAPERS. HENRY T. SHIPLEY, Lakewood, Wis. Filed Feb. 21, 1927. Serial No. 169,908. 6 Claims. (Cl. 37—138.)



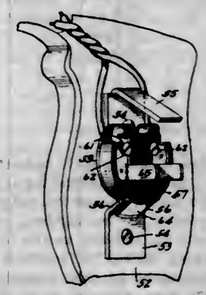
1. A self dumping attachment for road scrapers comprising an arm, means for pivoting the arm to the rear portion of the scraper, spring pressed means for supporting the forward free end of the arm, road engaging means on the free end of said arm.

1,680,575. HINGE-SPACING GAUGE HEAD. WILLIAM CLAYTON STARBUCK, Van Nuys, Calif. Filed May 24, 1926. Serial No. 111,446. 1 Claim. (Cl. 33—197.)



In a hinge spacing gauge, a head comprising: a housing member, gauge members separately movable in said housing member and having portions adapted to be projected from said housing member,—one of said portions being provided with a jamb-engaging upper surface and each of said portions being provided with a door-engaging lower surface.

1,680,576. ELECTRIC-FIXTURE SUPPORT. WHITMAN SYMMES, San Francisco, Calif. Filed Oct. 23, 1922. Serial No. 596,321. 7 Claims. (Cl. 173—330.)



1. A detachable electric lighting fixture adapted to be applied to a receptacle plate having a recess therein and an aperture above the recess and having a receptacle secured to the plate and disposed behind the recess, comprising a lighting fixture bracket having a back, a plug secured to said back and projecting therefrom, projecting lugs adjacent the plug, said plug and lugs adapted to engage said recess and a projecting tongue on the back adapted to engage in said aperture.

1,680,577. ALLOY. FELIX VISINTAINER, New York, N. Y. Filed June 2, 1926. Serial No. 113,334. 4 Claims. (Cl. 75—1.)

1. An alloy consisting of the following ingredients in substantially the proportions specified: copper 85 to 89%; aluminum 9 to 13%; iron .25 to .65%; silicon .30 to .70%; tin .07 to .12%.

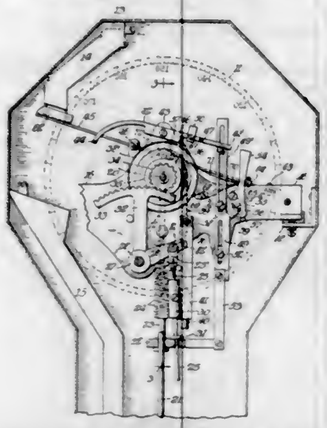
1,680,578. SOCKET-WRENCH SET. CLARENCE E. WAKEFIELD, JOSEPH P. FLEMING, and JOSEPH F. OLIVER, Worcester, Mass., assignors to Wakefield All-Steel Wrench Company, Inc., Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 1, 1927. Serial No. 180,255. 2 Claims. (Cl. 206—16.)



1. A tray or container for the sidewise reception on its bottom of a row of interchangeable socket members of different lengths of a socket wrench set, with portions of

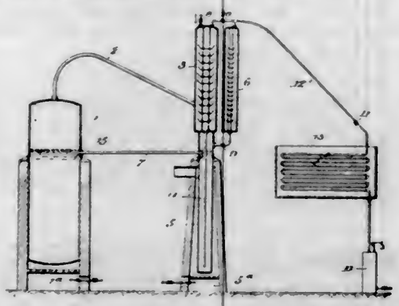
the material of said bottom struck up from the plane thereof at different distances from one side wall of said tray, each such portion being of sufficient length to span a pair of adjacent socket members, thereby to confine said pair of socket members against said side wall.

1,680,579. WEIGHING MECHANISM. JOHN B. WATLING, Chicago, Ill. Filed Aug. 4, 1923. Serial No. 655,574. 10 Claims. (Cl. 194—47.)



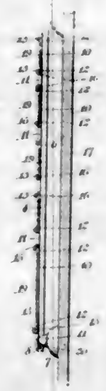
1. A coin-controlled weighing scale comprising weighing mechanism having a platform, indicating mechanism having the extent of its initial movement determined by the position of said weighing mechanism, coin-controlled means for locking said mechanism, means for holding said coin controlled locking means in released position and actuated by the movement of said weighing mechanism when the weight has been removed from the scale or reduced subsequent to the completion of the initial movement of said indicating means for permitting said coin-controlled locking means to lock said indicating means against further movement in either direction, said weighing mechanism including a part adapted to be shifted with a sliding movement to release said coin-controlled locking means at the termination of the weighing operation.

1,680,580. METHOD OF DISTILLING HYDROCARBONS. FRANK E. WELLMAN, Kansas City, Kans., assignor to Kansas City Gasoline Company, Kansas City, Kans., a Corporation of Kansas. Filed June 3, 1922. Serial No. 565,634. 3 Claims. (Cl. 196—48.)



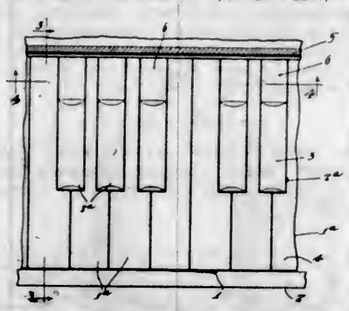
1. The method of treating hydrocarbon oil to produce a lighter hydrocarbon of the same series, which consists in distilling the heavier hydrocarbon in one zone at high cracking temperature and pressure, fractionating all the vapors produced in said first zone in a second zone, conducting off and condensing the vapors from said second or fractionating zone while refluxing to and redistilling the heavier fractions in a third zone at a temperature lower than that in the first cracking zone, separately fractionating in a fourth zone the vapors produced by redistillation in said third zone, conducting off and condensing the light vapors from said fourth zone, returning the heavier fractions from the fourth zone into the third zone, and returning all the heavier fractions from the third zone in liquid phase into the first zone.

1,680,581. SIGN. AUGUSTUS J. ZANGERLE, Buffalo, and WILLIAM J. ZANGERLE, Mount Morris, N. Y. Filed Oct. 31, 1927. Serial No. 229,827. 4 Claims. (Cl. 40—64.)



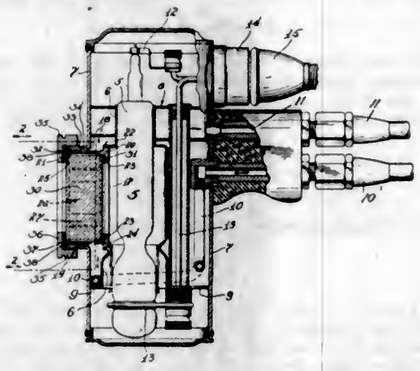
1. A sign having an integral body portion provided with a vertical series of transversely elongated card openings, spacing openings between said card openings, transverse bars between said card and spacing openings having integral card retainer flanges, the retainer flanges of the cross bars above and below each card opening being oppositely arranged, and an element bearing characters removably fitted between oppositely arranged retainer flanges and displayed through said card openings.

1,680,582. CHROMATIC-SCALE KEYBOARD. WILLIAM I. ZIDELL, Los Angeles, Calif. Filed July 5, 1927. Serial No. 203,359. 3 Claims. (Cl. 84—423.)



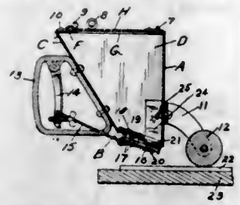
2. A keyboard for a musical instrument, having a series of keys adapted to produce natural notes on the instrument, said keys having their upper faces disposed at the same level a second series of keys disposed intermediately between the first named keys adapted to produce flat and sharp notes, said second series of keys having their upper faces disposed at a higher level than the keys of the first series, said second series of keys having depressed faces at their rear ends and on their upper sides located on the same level as the upper faces of the first named series.

1,680,583. THERAPEUTIC LAMP. FRITZ A. ANDERSON, Milton, Wis., assignor to The Burdick Corporation, Milton, Wis., a Corporation of Delaware. Filed Jan. 13, 1927. Serial No. 160,802. 11 Claims. (Cl. 174—177.)



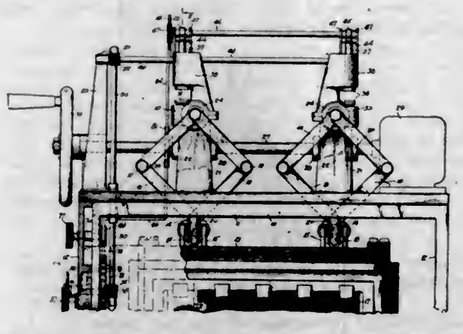
1. A therapeutic lamp housing comprising a casing for enclosing a lamp and having a window therethrough for the passage of rays generated by the lamp, a lens closing the window in the casing, and fluid connections for circulating a cooling fluid about the lens against its edge only.

1,680,584. DISTRIBUTOR FOR CONDIMENTS AND THE LIKE. ANDREW ANGELL, Minneapolis, Minn. Filed Mar. 3, 1927. Serial No. 172,444. 7 Claims. (Cl. 107—47.)



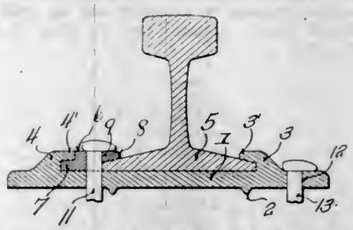
1. A baker's device for distributing condiment and the like of the character described comprising a container having closely arranged perforations in its base, a plate normally closing the perforations, a handle for moving and guiding the device, and means associated with the handle for moving the plate to expose the perforations.

1,680,585. SCREEN-DECENTERING DEVICE. HART O. BERG, Paris, France, assignor to Bassani Processes, Incorporated, New York, N. Y., a Corporation of New York. Filed June 7, 1927. Serial No. 197,189. 14 Claims. (Cl. 95—81.)



1. In combination, a screen and a holder therefor, and screen adjusting mechanism comprising a rotary member, and means adjustable within said member and operatively connected with the holder for effecting circular displacement of the screen about the geometric centers of the transparent elements of the screen grating.

1,680,586. COMBINATION TIE-PLATE AND RAIL ANCHOR. LEWIS J. BERG, Broadhead, Wis. Filed Mar. 4, 1926. Serial No. 92,222. 1 Claim. (Cl. 238—304.)

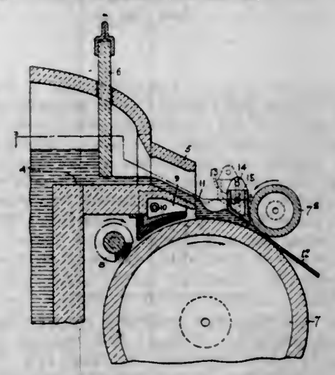


A combination tie plate and rail anchor comprising a plate adapted to rest upon a cross tie, and having a flat upper surface adapted to receive the base of a rail, said plate having a pair of spaced ribs each equipped with an inwardly directed flange, both of such flanges being located above the upper surface of the outer edge of the rail base with one of the flanges overhanging a marginal edge of the rail base, a tapered wedge interlocking with the other of said flanges, and having a flange overhanging the base of the rail, said wedge and said plate having aligning apertures adapted to recieve spikes, the apertures of the plate being elongated to permit adjustment of the wedge to accommodate variation in the width of rail bases and located adjacent the edge of the base of the rail, whereby the stems of the spikes contact with the edge of the base of the rail, the heads of the spikes overhanging the base of the rail and contacting with said wedge.

1,680,587. PROCESS FOR THE MANUFACTURE OF 2-HYDROXY-3-BROMO-5-PYRIDIN ARSONIC ACID. ARTHUR BINZ and CURT RÄTH, Berlin, Germany. Filed Dec. 17, 1926, Serial No. 155,559, and in Germany Dec. 21, 1925. 1 Claim. (Cl. 260—14.)

Process for the manufacture of 2-hydroxy-3-bromo-5-pyridin arsonic acid which consists in reacting bromine upon 2-hydroxy-5-pyridin arsonic acid.

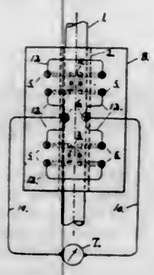
1,680,588. METHOD OF AND APPARATUS FOR FORMING SHEET GLASS. JOTHAM F. BLACK, Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Feb. 2, 1926. Serial No. 85,470. 10 Claims. (Cl. 49—8.)



7. Sheet-glass forming apparatus comprising means for delivering a relatively narrow stream of glass, a supporting surface for said glass, movable in the direction of

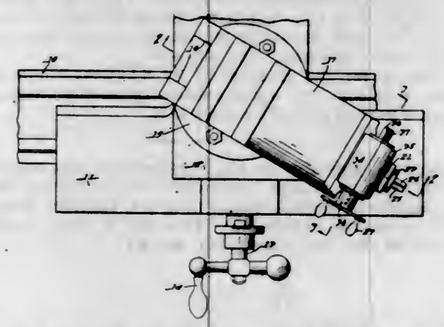
the line of travel of the glass, a forming roll disposed above said surface, and a spreading block mounted to the rear of the forming roll and at a height to engage the stream and effect spreading action thereof, the said block having its glass contacting surface inclined to gradually reduce the thickness of the stream.

1,680,589. THERMOELECTRIC STRESS METER. WILHELM BOCK, Passaic, N. J. Filed Aug. 20, 1925, Serial No. 51,467, and in Germany Oct. 22, 1924. 5 Claims. (Cl. 73—51.)



1. A thermoelectric device for determining the intensity of stress in solid materials comprising a first junction adjacent the material to be tested, a second junction insulated therefrom, and means for indicating the temperature difference between said first and second junction.

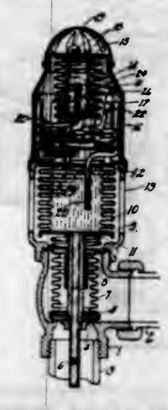
1,680,590. MANUAL-FEEDING MECHANISM FOR MACHINE TOOLS. CONSTANT BOUILLON, Torrington, Conn., assignor to The Hendey Machine Company, Torrington, Conn., a Corporation of Connecticut. Filed June 3, 1926. Serial No. 113,575. 1 Claim. (Cl. 82—24.)



In a machine tool, an adjustable slide, a feed screw therefor, a cross shaft in said slide positively connected to said feed screw and a detachable feed handle, said feed screw and said cross shaft each having provision to detachably receive said handle, and a graduated collar effective to show the exact angular position of said feed screw mounted directly upon said feed screw and freely rotatable thereon, said shaft being provided with a shoulder, a binding nut, and a washer keyed thereto, whereby said collar may be clamped in any desired position on said feed screw.

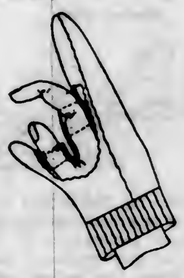
1,680,591. AUTOMATIC CONTROL VALVE. GEORGE H. BUGENHAGEN, Minot, N. Dak. Filed Mar. 24, 1927. Serial No. 177,986. 3 Claims. (Cl. 236—41.)

1. The combination in an automatic control valve, a hollow valve stem generating tube, a power motor consisting of a flexible metallic bellows, seated within said bellows a volatile liquid, free end of said bellows connected to valve stem, with a flexible metallic reservoir positioned above and apart from said power motor bellows, a governing valve positioned within said reserve and operative by means outside of the said reservoir, the reservoir



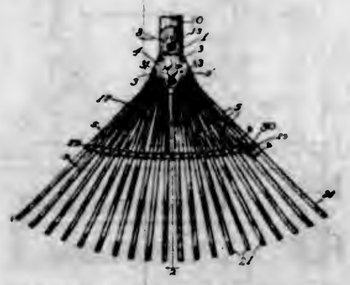
connected to motor bellows by a spiral heat eliminating duct and condensation return, leading from valve seat in reservoir to motor bellows and a secondary duct leading from motor bellows into the top of the reservoir.

1,680,592. MITTEN. RAYMOND A. CHILES, Spokane, Wash. Filed May 25, 1927. Serial No. 194,167. 1 Claim. (Cl. 2—158.)



A mitten having a finger-slit and a thumb-slit and linings for the mitten and its thumb portion, and said linings having slits therein for use with the finger slit and thumb slit, but spaced therefrom.

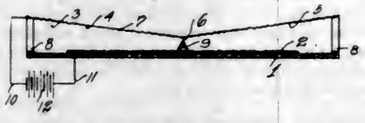
1,680,593. BROOM RAKE. FLOYD E. CONLEY, Jackson, Mich., assignor to The American Fork & Hoe Company, a Corporation of Ohio. Filed Nov. 11, 1926. Serial No. 147,655. 7 Claims. (Cl. 55—10.)



1. In a broom rake, the combination with a handle, of a plurality of flat metal strips forming rake tines divergingly extending therefrom and each secured at an

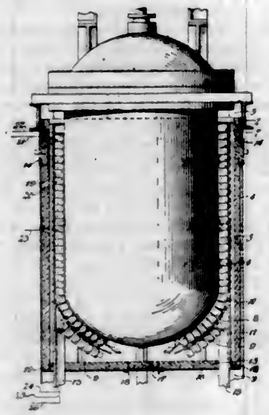
end thereto, each having its other end bent to form a ground engaging tip, reinforcing means joining the tines together intermediate their ends, said tines being twisted at substantially right angles intermediate the reinforcing means and the handle.

1,680,594. RAT TRAP. THOMAS F. CONNOLLY and LLOYD RANDLE, Colfax, Wash.; said Lloyd Randle assignor to Clarence E. Randle, Pullman, Wash. Filed Jan. 19, 1927. Serial No. 162,149. 1 Claim. (Cl. 43—98.)



The combination with a bottom having a bottom plate, and side walls having upper edges declining from the respective ends toward the longitudinal centers of said walls, of a reticulated top having its opposite edges secured to said declining edges, and electrical connections to said bottom plate and top for the purpose described.

1,680,595. CURRENT INDUCTION. ARCHIBALD H. DAVIS, Jr., Buffalo, N. Y., assignor to National Aniline & Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed Oct. 26, 1925. Serial No. 64,806. 19 Claims. (Cl. 219—47.)



7. An electrical induction apparatus comprising an electrically conductive body to be heated, a primary circuit composed of a plurality of current conductive elements forming a coil encircling said body, said elements being connected in parallel, and an additional current conductive element encircling said body and connected in series to said parallel connected elements, said additional element being in inductive relation to an end section of said coil for regulating the relative flow of current in said parallel connected elements.

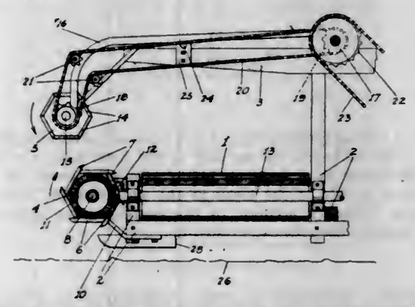
1,680,596. FISHING TOOL FOR OIL WELLS. FRED D. DAVIS, Duncan, Okla. Filed May 23, 1927. Serial No. 193,585. 3 Claims. (Cl. 294—100.)

1. In a fishing tool, and in combination, a mandrel stem equipped at its lower end with an annulus and provided in spaced relation above the annulus with an abutment, spring jaws carried by and pendent from a head loose on the mandrel stem and disposed within said annulus, a flanged casing member carried on said head, upwardly tapered dogs arranged at opposite sides of the mandrel stem and in said casing member and between the flange thereof and



the stem, a coiled expansion spring surrounding the stem and interposed between the head and said dogs, and a second coiled expansion spring surrounding the stem and interposed between the dogs and the said abutment on the stem.

1,680,597. HEADER ATTACHMENT FOR SIDE-DELIVERY HAY LOADERS. JOHN A. DYKE, Cedarville, Calif. Filed Dec. 7, 1925. Serial No. 73,869. 5 Claims. (Cl. 56—354.)

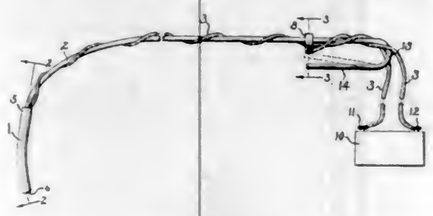


1. A hay gathering and loading device including with a frame and a draper mounted at the front end thereof, a pair of vertically spaced driven rollers mounted ahead of the draper, the upper periphery of the lower roller being substantially on a level with the draper, and continuous extensions projecting tangentially from the periphery of the lower roller at circumferentially spaced intervals.

1,680,598. ALLOY AND ITS USES. WILLIAM PORTER DREAPER, Hampstead Heath, England. Filed July 30, 1926, Serial No. 126,088, and in Great Britain Aug. 5, 1925. Renewed Feb. 16, 1928. 2 Claims. (Cl. 75—1.)

1. An alloy for use in the manufacture of jets for artificial silk filaments consisting of a mixture of gold and platinum, the latter metal being present in the proportion of from twenty two to twenty six per cent of the weight of the alloy produced.

1,680,599. PICKER MAGNET. WILLIAM R. EDSON, Southbridge, Mass. Filed Jan. 6, 1927. Serial No. 159,365. 4 Claims. (Cl. 175—367.)



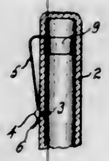
1. An electro-magnetic tool comprising a pliable core formed of a single rod of soft flexible magnetic wire, a conductor coil wrapped around a portion of said core, an electric circuit means connected with the conductor coil, one end of the core having a bent portion lying substantially parallel with the body of the core, and an exposed electrical contact point in the circuit associated with the body of the core and aligned with and spaced from the end of the bent portion of the core whereby the electrical circuit may be completed by pressing the end of the bent portion of the core against the exposed electrical contact point to energize the conductor coil and magnetize the portion of the core surrounded by the coil.

1,680,600. WHEEL-RIM CONTRACTING AND EXPANDING TOOL. HERBERT L. EDDY, Hamilton, Kans. Filed Oct. 7, 1926. Serial No. 140,095. 2 Claims. (Cl. 157—1.)



1. A rim tool comprising a lever, links of different lengths and each connected at one end to the lever near one end of the latter by a common pivot, attaching elements secured to a side of the lever at the ends thereof, and attaching elements secured to the corresponding sides of the links at the free ends thereof.

1,680,601. RETAINING CLIP. FREDERICK D. ELLIOTT, Seattle, Wash. Filed May 3, 1927. Serial No. 188,520. 3 Claims. (Cl. 24—11.)



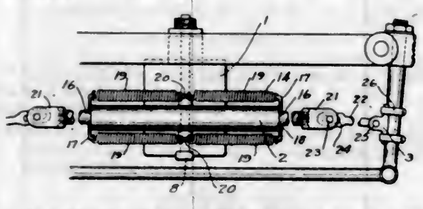
1. The combination with a cap having an exterior head, of a clip arm of resilient material having one end anchored to the cap, and a slotted head at the free end of the clip for co-action with the exterior head for clasping a supporting flexible material.

1,680,602. DRAWER PULL. EDWARD H. ELLISON, Jamestown, N. Y. Filed May 14, 1925. Serial No. 30,386. 1 Claim. (Cl. 16—125.)



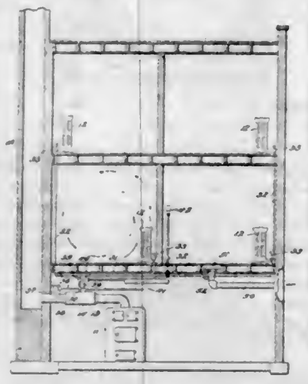
A drawer pull consisting of a handle drawn from a wrought metal rod, keys projecting from the legs of said handle, escutcheon plates, each plate having an aperture through the center thereof, and diametrically arranged recesses in the walls of said aperture, said parts being so formed and arranged that when said plates are slipped over said legs, said keys project through said apertures beyond said recesses, whereby said keys can be ended over to secure said escutcheons to said legs.

1,680,603. STEERING DEVICE. CHARLES A. ERNST, Rainier, Wash., assignor of one-half to Frank McDonald, Rainier, Wash. Filed Jan. 3, 1927. Serial No. 158,491. 3 Claims. (Cl. 280—94.)



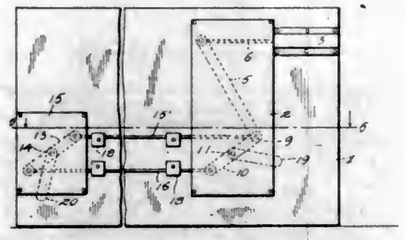
1. In a steering device, a slidable rod, a sleeve in which the said rod is mounted, a bracket for supporting the said sleeve, transverse connections adjacent the ends of the said rod, springs attached to these connections at one end and to a central stationary member at the opposite end, rods pivotally attached to the ends of the said slidable rod and suitable connections for attaching the ends of the said latter rods to the steering knuckle arms of a motor vehicle.

1,680,604. HUMIDIFYING APPARATUS. JAMES ARAD ERWIN, Oak Park, Ill. Filed Jan. 21, 1924. Serial No. 687,645. 5 Claims. (Cl. 126—113.)



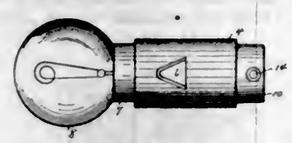
1. A humidifying apparatus including in combination, a heating plant having a flue for waste products of combustion, a steam or vapor generating tank, a conduit for conducting steam from said tank to a space to be himidified, and means for automatically delivering steam from said tank into said waste products flue when the pressure in said tank exceeds a pre-determined amount.

1,680,605. AUTOMATIC RAILWAY-CROSSING SIGNAL. ADOLPH FRANZEN, near Howard, S. Dak. Filed June 29, 1927. Serial No. 202,299. 2 Claims. (Cl. 246—293.)



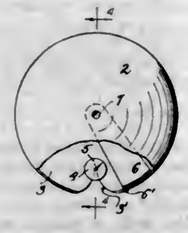
1. An automatic railway crossing signal comprising a support, a signal arm slidably mounted thereon and means for moving the latter into operative or signalling position when the train reaches a predetermined distance from the crossing, said means comprising a trip arm, and actuating lever pivoted to the support, a link between one end of said lever and the signal arm and a flexible connection between the other end of the actuating lever and the trip arm.

1,680,606. ELECTRIC-LIGHTING FIXTURE. GUY FREAD, Enid, Okla., assignor of one-half to John Manley, Enid, Okla. Filed Feb. 4, 1926. Serial No. 86,055. 1 Claim. (Cl. 173—328.)



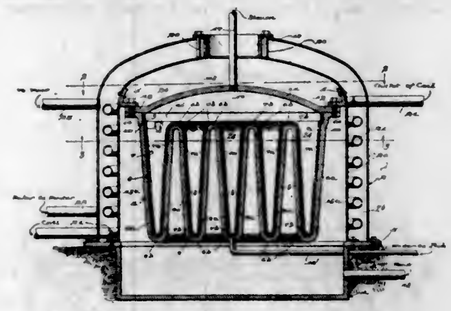
In an electric light fixture of the class described, the combination with a tubular housing having a tapered bore and means for securing a light base therein; of a tapering block member fitted in said housing and projecting from the rear end thereof, said block member having a central bore, a removable core fitting in the rear end of the bore of said block member having longitudinal said core in position, a guide sleeve fitted in the forward end of the bore of said block member having longitudinal slots therein opposed diametrically, an elongated contact member slidably mounted in said guide sleeve, lateral lugs on said contact member projecting in said slots and spring means between the rear end of said contact member and said core, as and for the purpose described.

1,680,607. TACK LIFTER. WALTER E. GABY, Los Angeles, Calif. Filed June 18, 1927. Serial No. 199,638. 2 Claims. (Cl. 254—18.)



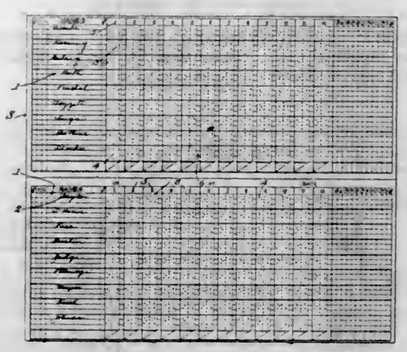
1. A device for lifting and collecting tacks comprising a receptacle composed of a pair of concave plates conjoined at their peripheries, each of said plates having a slot extending inwardly from the periphery thereof.

1,680,608. FLASH BOILER. ALLIE GLENN GARBUTT, Valdosta, Ga. Filed Aug. 3, 1925. Serial No. 47,957. 5 Claims. (Cl. 122—39.)



1. A flash boiler of the character described having a steam producer comprising a plurality of concentric annular sections, connections between the alternate ends of adjacent sections forming a producer zigzag in cross section, said sections and said connections being made up of closely spaced walls defining a sinuous water space through which the water travels spread out into a thin film and in the form of rising and falling sheets.

1,680,609. BASEBALL SCORE CARD. JAMES GRUNDY, Paterson, N. J. Filed Feb. 18, 1927. Serial No. 169,255. 1 Claim. (Cl. 283—49.)

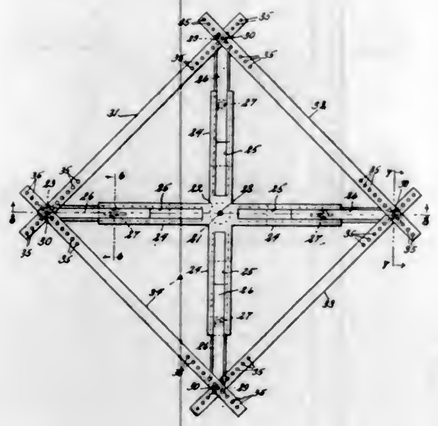


A base ball scoring sheet provided with areas appropriately designated for the entry of names of players, and having, for each of said areas, a plurality of spaces marked to indicate successive game innings, there being in each of said spaces, a group of marks so placed as to represent the stations of a company of baseball players on a base ball diamond, the marks in each group being spaced far enough apart so that conventional signs may be inscribed near any mark, by a scorer, and so that the marks may be joined by a line which will be of sufficient length to be plainly discernible between any two adjacent marks.

1,680,610. BATIK-FRAME SUPPORT. MARY Y. HARMON, Laguna Beach, Calif. Filed Sept. 16, 1926. Serial No. 135,896. 2 Claims. (Cl. 45—24.)

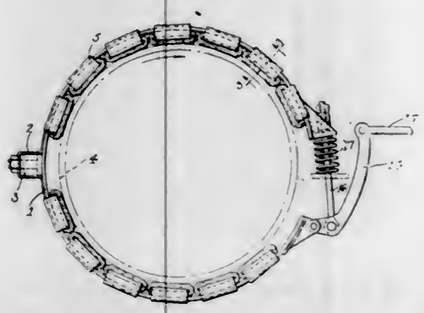
1. A batik frame construction including a post, an oscillatable head mounted on said post with a pin extending upward therefrom, a frame supporting body with a cen-

tral hole adapted to fit and turn on said pin and said body having four rigid radially extending arms equidistant from each other, outer arms slidably dove-tailed in connection with said rigid arms and so as to be in alinement therewith, means for securing said slidable outer arms on



said rigid arms when adjusted in position, an upwardly extending pin in the outer end of each outer sliding arm, and four batik frame bars with a series of holes near each of their ends adapted to fit on the outer ends of said arms, said frame bars overlapping each other at their ends and forming a rectangular frame.

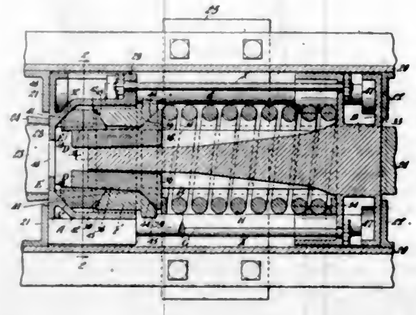
1,680,611. QUICK-RELINING BRAKE. LEE HARVEY, Los Angeles, Calif. Filed Sept. 8, 1927. Serial No. 218,148. 7 Claims. (Cl. 188—259.)



5. In a brake for the brake drum of an automobile, the combination of a plurality of brake-shoes, each brake-shoe having a liner in the form of an endless band supported on the shoe, with one loop of the band disposed behind the other loop with respect to the direction of rotation of the brake drum.

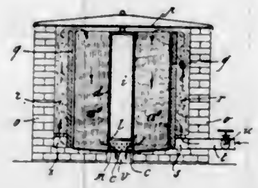
1,680,612. FRICTION SHOCK-ABSORBING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Sept. 26, 1923, Serial No. 664,867. Renewed Dec. 27, 1927. 2 Claims. (Cl. 213—36.)

1. In a friction shock absorbing mechanism, the combination with a tapered central friction element; of a series of friction shoes co-operable with said element; a spring resistance; a plurality of wedge blocks having engagement with the shoes; and a wedge pressure transmitting means having wedging engagement with said



blocks; a wedge ring co-operating with said blocks, said blocks and ring having co-acting sets of faces which are disposed at a relatively blunt non-wedging angle with reference to the longitudinal axis of the mechanism.

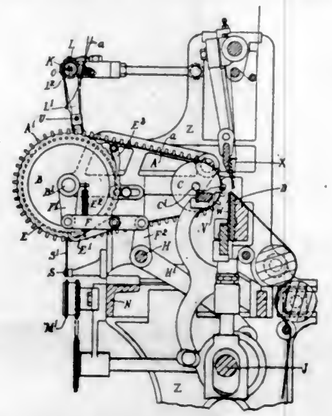
1,680,613. CARBONIZING APPARATUS. HENRI HENNEBUTTE and EDOUARD GOUTAL, Paris, France. Filed Dec. 28, 1923, Serial No. 683,259, and in France Jan. 3, 1923. 1 Claim. (Cl. 202—9.)



A drying and carbonizing apparatus of the type described comprising in combination, a metal cylinder, a second metal cylinder concentrically disposed therein, the cylinders forming an annular carbonizing chamber between them, an inturned flange on the first mentioned cylinder for closing one end of said chamber, perforations extending through the wall of said second metal cylinder over substantially the whole length thereof, a detachable cover for the ends of said cylinders opposite said flange for use during the carbonizing operation, an annular abutment on the interior of said second metal cylinder adjacent to but spaced from the end thereof that is adjacent said flange, a complementary detachable tube adapted to be inserted in said second metal cylinder and to prevent substantial passage of gas through the perforations between said abutment and the end of the cylinder remote therefrom, and a detachable flanged plug adapted to close one end of said second metal cylinder.

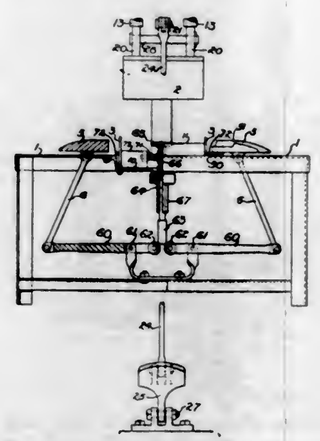
1,680,614. WARP-KNITTING MACHINE. EDGAR HERBERT HILL and HENRY HAWKINS, Nottingham, England. Filed July 28, 1924, Serial No. 728,731, and in Great Britain Aug. 3, 1923. 5 Claims. (Cl. 66—84.)

1. The combination, with a pair of endless conveyers provided with yarn holding fingers, and means for moving the conveyers step by step; of mechanism for looping two separate threads of yarn around the said fingers to form two series of parallel weft threads, said mechanism comprising a guide rail, a yarn carriage slidable on the guide rail and provided with a thread laying arm, means for sliding the carriage and arm longitudinally of the guide rail and crosswise of the conveyers, and means for



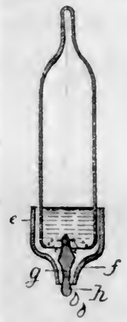
rocking the said arm laterally at intervals to loop each yarn thread alternately over one finger of one conveyer and over two fingers of the other.

1,680,615. CARTON-FOLDING MACHINE. AUGUST HOBA, Seattle, Wash. Filed Nov. 1, 1927. Serial No. 230,265. 10 Claims. (Cl. 93—51.)



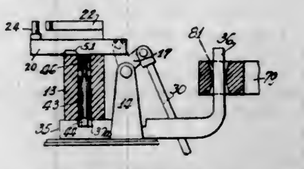
1. In a machine for folding cartons of the type having end flaps of which one has a slit and the other a locking tongue adapted to enter the said slit, a reciprocating plunger about which the carton sides are folded, a stationary finger at each end of the carton adapted to engage the inner face of the end flap which contains the tongue-receiving slit at a point just below said slit to hold the same outwardly, folding wings engaging the outer faces of the end flaps, and means for swinging them upwardly and inwardly to fold the end flaps, means for similarly swinging the back side section of the carton and its attached end truck flaps, the end flap folding wings having an inward projection positioned to engage the slitted end flaps just above the slits therein to act in conjunction with the above named fingers to open said slits for the reception of the locking tongues.

1,680,616. SEALED PACKAGE. FRIEDRICH WILHELM HORST, Neckargemund, Germany. Filed June 4, 1923, Serial No. 643,292, and in Austria June 6, 1922. 6 Claims. (Cl. 23—240.)



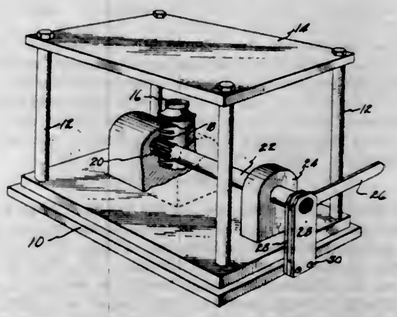
1. A fire sealed glass container having an integral frangible re-entrant bottom and containing a very carefully measured quantity of a solute sufficient when mixed with a definite quantity of a solvent to form a normal solution.

1,680,617. LOCK FOR INTERLOCKING LEVERS. SAMUEL P. HULL, Yonkers, JOHN J. CORCORAN, Albany, and EDWARD A. EVERETT, New York, N. Y. Filed Dec. 4, 1925, Serial No. 73,283. Renewed Jan. 14, 1928. 12 Claims. (Cl. 246—146.)



1. In an electric lock for interlocking levers, the combination of a part operatively connected with said lever, an electrically controlled lock for restricting the movement of said part and a member operatively connected with the latch of said lever for mechanically controlling the operation of said lock.

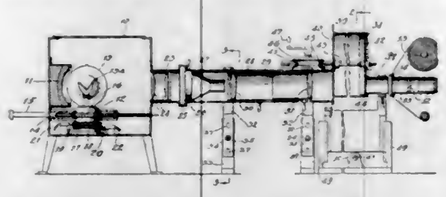
1,680,618. LOCKING MECHANISM. EARL S. HUTTON, Detroit, Mich., assignor of one-third to Alan H. Pearson, Detroit, Mich. Filed Aug. 3, 1925, Serial No. 48,008. Renewed May 31, 1928. 15 Claims. (Cl. 192—8.)



1. In locking mechanism, a rotatable shaft, a disk fixed to the shaft, a casing surrounding the disk, said disk having a cut-out adjacent to the casing, a crank

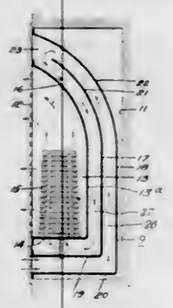
mounted upon the shaft to rotate the same, said crank coupled with the shaft through the disk by a part engaged in the cut-out of the disk and adapted to be wedged between the disk and the casing upon application of an impulse of rotation to the disk from the shaft.

1,680,619. METHOD AND APPARATUS FOR PRODUCING COLORED PROJECTED PICTURES. WILLIAM L. ISBILLS, Elizabeth, N. J. Filed June 13, 1923. Serial No. 645,051. 22 Claims. (Cl. 88—16.4.)



1. The method of projecting the subjects of a positive photographic film onto a screen in pleasing color effects, which consists in adjusting projecting lenses relatively to and in the path of light emanating from an illuminating source, in such manner and due to their chromatic aberration as to project contrasting color light rays from said illuminating source through said lenses, and placing a film in the path of the contrasting color light rays projecting from said lenses whereby the subjects on said film will be projected onto a screen in colors.

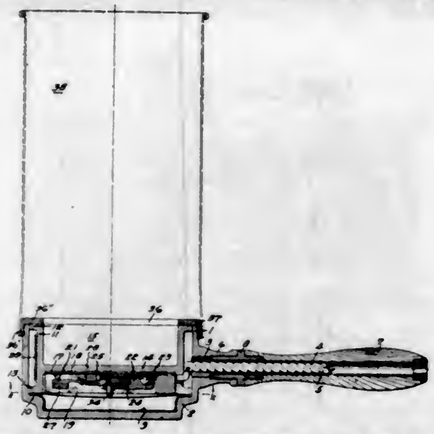
1,680,620. ELECTRIC HEATER. ARTHUR J. KERCHER, Berkeley, and WILLIAM WESLEY HICKS, San Francisco, Calif. Original application filed Mar. 10, 1924, Serial No. 698,089. Divided and this application filed Aug. 26, 1925. Serial No. 52,513. 7 Claims. (Cl. 126—86.)



1. An electrical heater comprising an electrical heating element, and means defining a passageway extending behind said heating element and extended forwardly over the top thereof, the upper end of said passageway being in communication with a source of relatively cool air, and means for inducing a downward flow of air in said passageway.

1,680,621. ELECTRIC HEATING UNIT. ARTHUR J. KERCHER, Berkeley, Calif., assignor of one-half to William Wesley Hicks, San Francisco, Calif. Filed Oct. 6, 1925. Serial No. 60,741. 9 Claims. (Cl. 219—41.)

9. In an electric immersion heater, a handle, a casing secured to said handle, a cup shaped body disposed within said casing, the bottom of said body defining a chamber between the same and a portion of the casing, an expansible cell disposed within said chamber, means for clamping the periphery of said cell between portions of said casing and body, electrical heating means disposed between the casing and body and in good thermal



contact with the body, and means for sealing the space between said casing and body, said means serving to force said body against said cell.

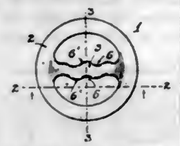
1,680,622. ELECTRIC WATER HEATER. ARTHUR J. KERCHER, Berkeley, and WILLIAM WESLEY HICKS, San Francisco, Calif. Filed June 28, 1926. Serial No. 118,909. 7 Claims. (Cl. 219—38.)

1. In a hot liquid supply system, a water tank, a cool water supply pipe connected to said tank whereby the tank is normally filled with water, a hot water pipe communicating with the upper portion of said tank, electrical heating means associated with the tank and adapted to store hot water in the upper portion of the tank by thermal circulation, and means for controlling supplying of current to the heating means in accordance with the amount of stored heated water in the tank.

1,680,623. BACKING DEVICE FOR THE BUTTONS OF GARMENTS. MAUDE I. F. KINNEY, Peoria, Ill. Filed May 19, 1927. Serial No. 192,528. 6 Claims. (Cl. 24—90.)

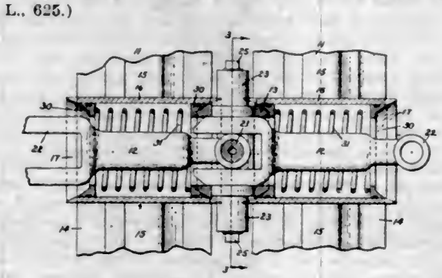
1. In combination with a support to which to attach a button, of a button at one side of the support, and a backing device at the other side, both adapted to be sewn together upon such support, said device comprising a ring portion having a curvilinear bridging portion

extending diametrically across it at one side, and at its other side being concave in general form from its outer periphery toward its inner edge and having concentric



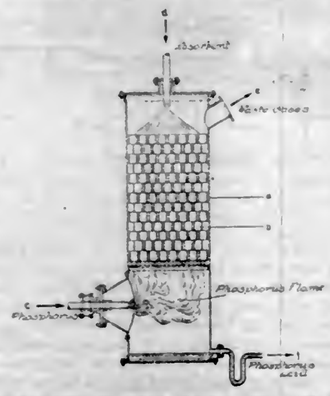
shoulders therein adapted to engage upon the support, said bridging portion lying outward from the plane of said ring and at that side opposite the concave side.

1,680,624. FLEXIBLE TRACK FOR TRACK-LAYING VEHICLES. HARRY A. KNOX and BERTIE F. BAKER, Davenport, Iowa. Filed Oct. 9, 1924. Serial No. 742,670. 20 Claims. (Cl. 305—10.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625.)



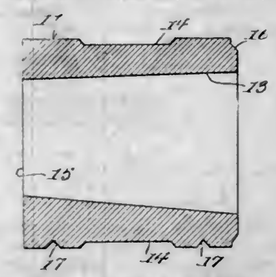
1. An endless track for track laying vehicles embodying a sectional tubular trackway, each section formed with opposite rimmed slots, a shoe secured to each section, spacers forming a ball joint with adjacent sections, a link chain without the trackway, cross pins carried by said spacer for universally connecting adjoining links, one of said pins projecting from opposite sides of the spacer to constitute driving pins for the track, said driving pin cooperating with the slots in the tubular sections for limiting lateral bending and axial rotation of said tubular sections.

1,680,625. PROCESS OF PRODUCING PHOSPHORIC ACID. HERMANN LANG, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort, Germany. Filed Oct. 20, 1925, Serial No. 63,791, and in Germany Oct. 23, 1924. 2 Claims. (Cl. 23—165.)



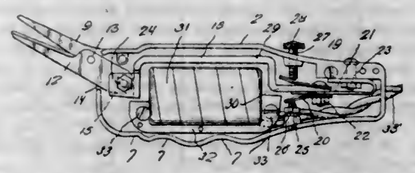
1. In the art of making phosphoric acid by burning phosphorus that improvement which comprises directing the phosphorus flame into an absorption tower, and absorbing therein the resulting pentoxide with a hot diluted solution of phosphoric acid.

1,680,626. VENTILATED BUILDING BLOCK. WILLIAM MEYER, Gladbrook, Iowa. Filed Sept. 10, 1926. Serial No. 134,703. 1 Claim. (Cl. 72—6.)



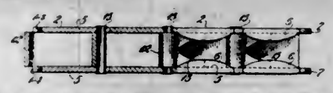
A building block comprising a rectangular body of cement formed throughout its length with a series of upright or vertically elongated openings having horizontal top walls and having their bottom walls inclined downwardly and outwardly with the highest point of the bottom walls at the inside of the block, the body having its top, bottom and ends formed with recesses throughout the length thereof to define air passages when the blocks are arranged in courses, the recesses communicating with one another for defining circumferential passages entirely about the individual block, the bottoms and ends of the blocks being additionally formed outwardly of said recesses with grooves adapted to receive cementitious material for effecting binding of the blocks together.

1,680,627. ELECTRICALLY-OPERATED SCISSORS. JAMES F. MINOS and OSCAR W. FREEMAN, Galesburg, Ill. Filed Apr. 2, 1925. Serial No. 20,101. 1 Claim. (Cl. 30—13.)



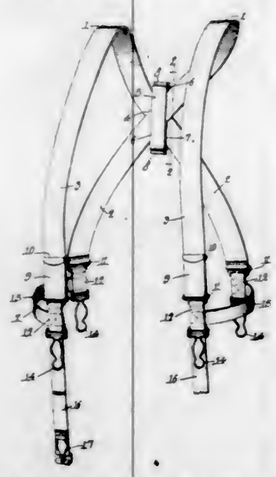
A blade operating connection for electrically operating scissors comprising a reciprocating armature arrangement in a casing and adapted for actuation by an electric magnet carried therein, said armature having an extension formed thereon, a pin arranged transversely on the extension and a pivotally mounted blade having its inner end arranged in overlapping relation with respect to said extension and having a slot formed therein adapted to receive said pin and extending substantially at right angles to the direction of movement thereof.

1,680,628. FLEXIBLE BRACELET. ALMYR L. NEWMAN, Warwick, and OSCAR R. MITCHELL, Cranston, R. I., assignors, by mesne assignments, to A. L. Newman Company, Cranston, R. I., a Corporation of Rhode Island. Filed Nov. 6, 1923. Serial No. 673,059. 4 Claims. (Cl. 59—80.)



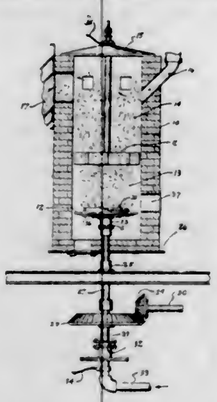
1. An article of jewelry comprising a series of box-like link-members each having a top and opposite parallel sides, the sides of the link being provided with curved ears pierced with openings, said ears made integral with and projecting from one end of the link and recesses at the opposite end of the link, to adapt the links to be assembled with ears of one link received in the recesses of the next adjacent link, an integral tab formed into a loop at the recessed end of the link, and a pin inserted through the openings in the ears and through the loop to hingedly connect the links in the chain.

1,680,629. SUSPENDERS. ROBERT R. NORWOOD, Mineral Wells, Tex. Filed Aug. 6, 1927. Serial No. 211,185. 1 Claim. (Cl. 241—12.)



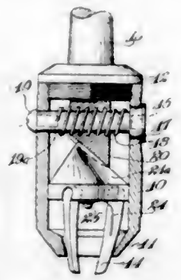
A pair of suspenders made up of straps including rear arms and forward arms, the rear arms being crossed, means for connecting the rear arms together loosely and freely for relative sliding movement at their place of crossing, the forward arms being fashioned into adjustable loops, means for holding each loop at an adjusted length, front breeches-engaging members carried by the loops, the space between the front breeches-engaging members being open, rear breeches-engaging members directly connected to the rear arms, the space between the rear breeches-engaging members being open, circumferential ties permanently secured at their extreme ends to the front and rear breeches-engaging members, and means interposed in the ties for holding them adjustably at a fixed length, thereby to determine a fixed maximum distance between the front breeches-engaging member, and one rear breeches-engaging member.

1,680,630. COMBINED ELECTRODE AND STIRRING DEVICE. STANLEY A. W. OKELL, Cranford, N. J., assignor to Industrial Chemical Company, New York, N. Y., a Corporation of New York. Filed Jan. 3, 1927. Serial No. 158,501. 9 Claims. (Cl. 266—1.5.)



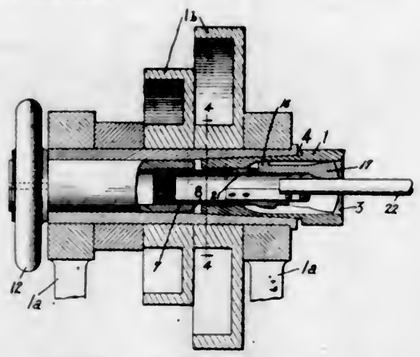
1. In a material stirring device, a receptacle providing a chamber in which to place the material to be treated, a rotatable disc-shaped member mounted in the lower part of the chamber and presenting a face in supporting engagement with material in the chamber, flange members formed on the upper face of the disc-shaped member, said flange members having gas discharge openings in their rear faces, and means for rotating the member to cause the discharging gas to stir the engaged material.

1,680,631. DRILL CHUCK. GEORGE J. PALAITH, Chicago, Ill. Filed Oct. 9, 1926. Serial No. 140,645. 6 Claims. (Cl. 279—58.)



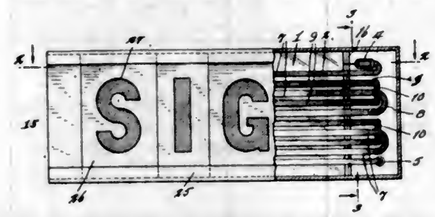
2. A drill chuck comprising a housing having a reduced issue end, a group of jaws longitudinally movable in said housing and adapted to be contracted when advanced to engage the reduced issue end of the housing, a manually-operable and transversely disposed worm journalled in the opposite end of the housing, a cam threaded on said worm and adapted to be propelled thereby, said housing having means to prevent said cam from turning, and a block adapted to be moved by the cam to engage and actuate the jaws longitudinally into the issue end of said housing.

1,680,632. SPRING COLLAR FOR LATHES AND SCREW MACHINES. GEORGE J. PALAITH, Cicero, Ill. Filed Mar. 28, 1927. Serial No. 179,089. 2 Claims. (Cl. 279—53.)



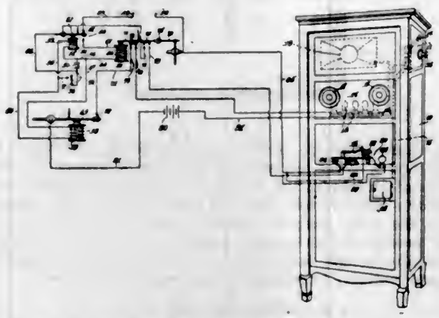
1. In a spring collar for lathes and screw machines, a housing comprising a head and a tapered and interiorly beveled shank, the mouth of said head being beveled, a lug integral with said shank, a threaded longitudinally recessed sleeve having one enlarged slotted end, the recess in said sleeve receiving the said lug, jaws arranged in the slotted end of said sleeve for frictional engagement with the beveled mouth of said head, heels integral with said jaws and formed with beveled faces for engagement with the interiorly beveled portion of said shank, and supporting springs for said jaws connecting the same and said sleeve.

1,680,638. ILLUMINATING APPLIANCE. THOMAS K. PETERS, Los Angeles, Calif., assignor to The Color Ray Holding Corporation, Denver, Colo., a Corporation of Colorado. Filed Jan. 20, 1928. Serial No. 248,163. 10 Claims. (Cl. 40—130.)



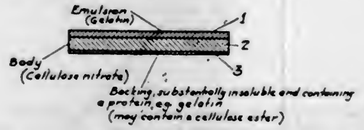
1. In an illuminating appliance of the class described, a background composed of luminous tubing, the main portions of which are arranged in spaced relation so that the area of the background is well covered by bands of light emitted from the tube portions, and a relatively opaque screen located in front of the background and provided with relatively translucent patterned areas constituting a design illuminated by the background, said translucent areas being disposed in front of said tubes and relatively close thereto, whereby to provide, when the tubes are made luminous, a pattern composed of bands or stripes of light visually distinguished over said areas.

1,680,634. RADIO SLOT MACHINE. JOSEPH PINTO, Philadelphia, Pa. Filed Aug. 9, 1927. Serial No. 211,699. 14 Claims. (Cl. 194—83.)



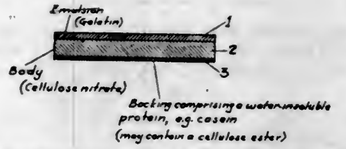
1. In a device of the character described, a rotary coin carrying disc, a swinging catch adapted to be engaged by the coin therein, a switch-closing spring retracted lever to shift with movement of the catch and a lever movable with the disc and engaging the lever to reset the lever in switch disconnecting position.

1,680,635. PHOTOGRAPHIC FILM. FRANK FORSTER RENWICK, Parlin, N. J., assignor, by mesne assignments, to Du Pont-Pathe Film Manufacturing Corporation, Wilmington, Del., a Corporation of Delaware. Filed Aug. 20, 1925. Serial No. 51,507. 9 Claims. (Cl. 95—9.)



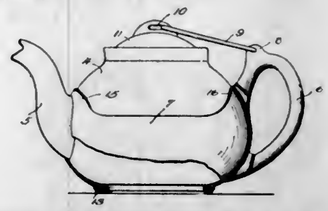
1. A photographic film including a body layer comprising cellulose nitrate, and a layer comprising a cellulose ester and a protein.

1,680,636. PHOTOGRAPHIC FILM. FRANK FORSTER RENWICK, Parlin, N. J., assignor, by mesne assignments, to Du Pont-Pathe Film Manufacturing Corporation, Wilmington, Del., a Corporation of Delaware. Filed Aug. 20, 1925. Serial No. 51,508. 6 Claims. (Cl. 95—9.)



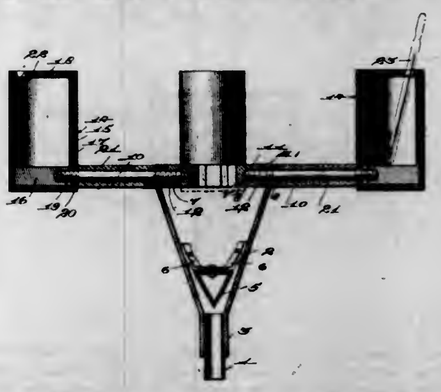
1. A cinematographic non-static photographic film having a body of cellulose nitrate and a non-scratching substantially smooth backing electrically positive with respect to the body and composed of a water-insoluble protein substantially free from grains and free from pigmentary and other granular materials.

1,680,637. HOLDER FOR TEAPOTS AND OTHER CONTAINERS. LOUIS J. ROUSSELOT, New York, N. Y. Filed Mar. 18, 1927. Serial No. 176,405. 4 Claims. (Cl. 53—3.)



1. A holder for a teapot having a spout comprising a shell shaped to conform to the lower portion of the teapot, and an upwardly extending resilient portion to engage the upper part of the teapot and having an opening adjacent said portion and a handle mounted on the shell at the rear thereof, said shell being adapted to permit the insertion of the teapot into the shell by the passage of the spout of the teapot through the opening of the shell so that the part of the shell around said opening encircles the spout, and to clampingly engage the teapot by means of said rear and said resilient portion.

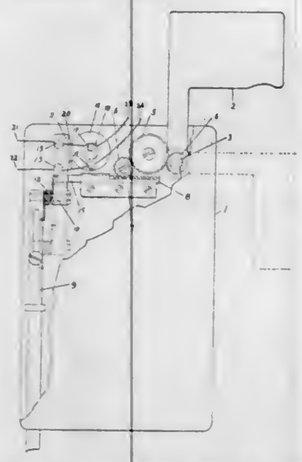
1,680,638. HEAT-CONDUCTIVITY APPARATUS. FRANCIS M. ROWAN, Bessemer, Ala. Filed Jan. 9, 1926. Serial No. 80,379. 7 Claims. (Cl. 73—51.)



1. A test device for ascertaining the heat conductivity of substances, a shell, means for heating the shell, a plurality of radially disposed heat conducting elements

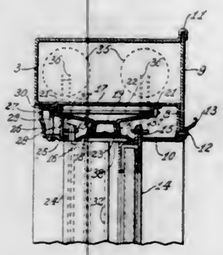
attached to the shell and having different degrees of heat conductivity and all being subjected to and heated uniformly by said heating means, and means associated with the heat conducting elements for indicating the temperature thereof.

1,680,639. METER FOR TAXICABS. FRANK H. RUEHMEIER, Latonia, Ky. Filed Mar. 2, 1927. Serial No. 172,132. 4 Claims. (Cl. 235—30.)



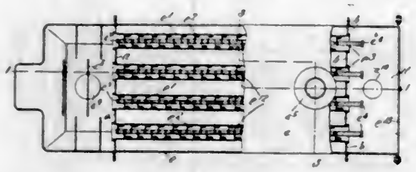
1. A device of the character specified, comprising in combination with a meter having a movable member for placing said meter into or out of operative setting, a motor vehicle seat and the motor ignition circuit of said vehicle, contacts in said circuit, a rod movably mounted relative to said contacts, means carried by said rod and arranged to short circuit the ignition current, tension means arranged normally to press said short circuit means toward said contacts, means actuated by the weight of an occupant on said seat for moving said rod to bring said contact means into contact with said contacts, and means actuated by the movement of said member to registering position for forcing said short circuiting means away from said contacts.

1,680,640. METAL WINDOW. JOHN F. RUTH, St. Louis, Mo. Filed Dec. 10, 1926. Serial No. 153,776. 23 Claims. (Cl. 189—72.)



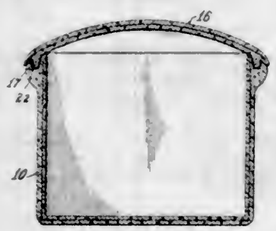
1. A metal window frame having a sash therein provided with a rib, a jamb having a part engaging the edge of said sash along said rib, a stop engaging the opposite side of said rib along said sash, and means for adjusting the engaging part of said jamb towards said sash.

1,680,641. CONDENSER. EDOARDO MICHELE SALERNI, Paris, France, assignor to E. M. S. Industrial Processes Limited, London, England, a Corporation of England. Filed Oct. 31, 1925, Serial No. 66,053, and in Great Britain Nov. 10, 1924. 8 Claims. (Cl. 257—236.)



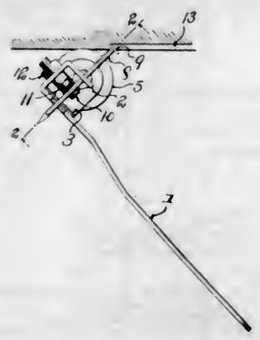
1. Heat interchange apparatus comprising an outer casing, a plurality of elongated conduits of flattened construction disposed within the casing and spaced from each other and from the walls of the outer casing, and means in said conduits for causing a medium admitted thereto to pursue a sinuous path from end to end thereof.

1,680,642. BURIAL VAULT AND METHOD OF SEALING THE SAME. JOHN J. SCHEEL, Detroit, Mich. Filed Sept. 12, 1927. Serial No. 218,908. 6 Claims. (Cl. 72—7.)



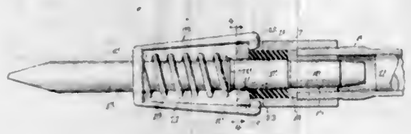
2. A construction of the class described comprising a body and a cover therefor, there being a groove in the edges of said body, the borders of said groove being outwardly sloping in form and the inner border being higher than the outer one; a tongue on said cover fitting into said groove, the underside of said cover conforming substantially to the borders of said groove; and a seal of plastic material in said groove around said tongue.

1,680,643. BRICKLAYER'S TOOL. PETER J. SCHNEIDER, Eau Claire, Wis. Filed Apr. 14, 1927. Serial No. 183,719. 4 Claims. (Cl. 72—138.)



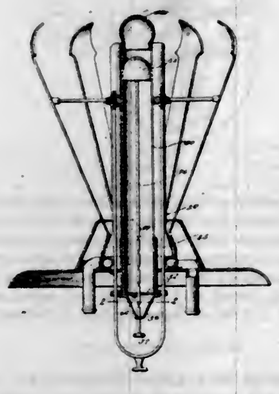
2. A routing tool comprising a carriage-like body portion provided with a supporting wheel and a manipulating handle and having an apertured ear, a bearing portion carried by said body portion, a locking plunger slidably mounted within said bearing portion and having an aperture therethrough, a clamping nut threaded upon said plunger, a routing instrumentality having an elongated shank passing through the apertured ear and through the aperture in said locking plunger, said instrumentality having an enlarged head.

1,680,644. CHISEL AND PISTON RETAINER. ERNEST H. SHAFF, Grand Haven, Mich., assignor to Wm. H. Keller, Inc., Grand Haven, Mich., a Corporation of Michigan. Filed Oct. 1, 1924. Serial No. 741,090. 2 Claims. (Cl. 121—32.)



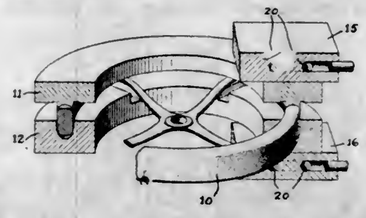
1. A retainer of the character described comprising in combination with a tool cylinder and a working tool, a supporting member screw-threaded upon the exterior of the cylinder, a bushing within the cylinder interposed between the forward end of the cylinder and the shank of the working tool, said shank having a shoulder adapted to engage the forward end of said bushing to limit the rearward movement of the cutting tool, and means located forwardly of said supporting member adapted yieldably to limit the forward movement of the cutting tool, said means acting to hold the cutting tool normally seated against said bushing.

1,680,645. OIL SPRAY. CARL EUGENE SIMS, Eastland, Tex. Original application filed Mar. 15, 1923, Serial No. 625,360. Divided and this application filed June 7, 1924, Serial No. 718,609. Renewed Dec. 6, 1927. 1 Claim. (Cl. 128—244.)



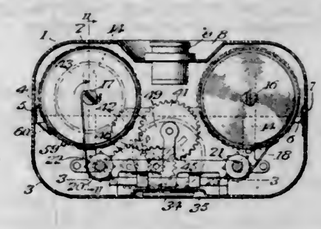
An oil spray including a barrel, a plunger operating in said barrel, a plunger rod connected with the plunger and extending exteriorly of the barrel, said plunger rod having a series of annular notches and a laterally flexible spring detent carried by the barrel and cooperable with the notches.

1,680,646. MOLDED ARTICLE AND METHOD OF MAKING THE SAME. GRANT E. SMITH, Poughkeepsie, N. Y. Filed Sept. 26, 1922, Serial No. 590,604. Renewed Apr. 30, 1927. 26 Claims. (Cl. 18—59.)



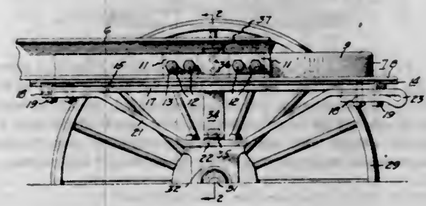
1. A molded article formed of sections of light permeable material separately coated with adhesive and assembled with portions of adjacent sections in interfitting relation, and then reshaped under pressure.

1,680,647. CAMERA. WALTER E. STARK, New York, and SAMUEL H. DRAKE, Groton, N. Y. Filed Sept. 18, 1924, Serial No. 738,447. Renewed Nov. 4, 1927. 16 Claims. (Cl. 95—31.)



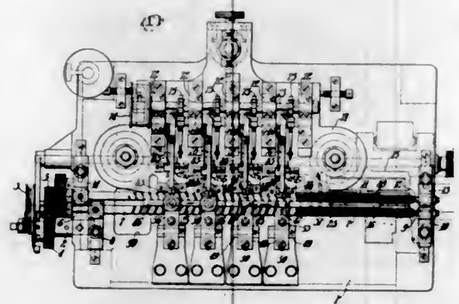
1. In a camera adapted to use film, a pair of light-excluding shield plates overlying the face of the film directed toward the camera lens, means operable exteriorly of the camera to move said plates toward or from each other to vary the size of the exposure aperture therebetween, and automatic yieldable locking means interposed between a fixed part and a part movable with the shield plates to hold the shield plates in their adjusted positions.

1,680,648. DIRIGIBLE-WHEEL MOUNTING. LOWELL H. THOEN, Stockton, Calif., assignor to Western Harvester Co., Stockton, Calif., a Corporation of California. Filed May 16, 1927. Serial No. 191,695. 6 Claims. (Cl. 280—125.)



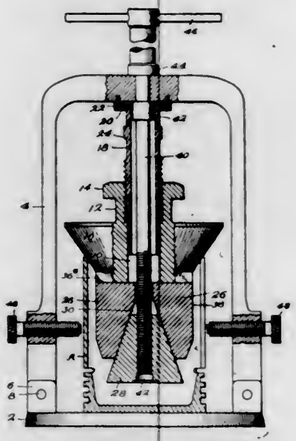
4. A dirigible wheel mounting comprising an angle iron of circular contour, a pair of supporting straps secured to said angle iron, a wheel mounted on said straps, braces secured to said straps and to said angle iron, lugs on said braces overlying said angle iron, a second angle iron confined for rotation movement between said lugs and said first angle iron, and a frame secured to said second angle iron.

1,680,649. STRAIGHTENING MACHINE FOR NEEDLES AND THE LIKE. WILLIAM TIVENDALE, Clydebank, Scotland, assignor to the Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed June 3, 1926, Serial No. 113,441, and in Great Britain June 19, 1925. 22 Claims. (Cl. 153—39.)



1. A straightening machine having a plurality of hammers arranged to act upon a needle at different stations, means for feeding non-rotating needles past said hammers during effective needle-straightening operations of the hammers, and means for turning each needle through 180° around its axis between the hammering stations.

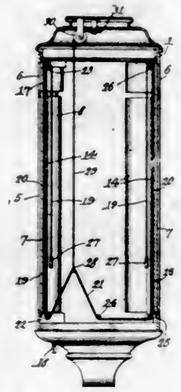
1,680,650. PISTON EXPANDER. FRANK A. TRAVIS, Kansas City, Mo. Filed Sept. 12, 1927. Serial No. 218,938. 5 Claims. (Cl. 153—80.)



1. In a piston expander, means including a conical member for firmly holding a piston, threaded means upon which said conical member is adjustably mounted, elements operably supported by said conical member and adapted to be inserted within the piston, and mechanism for forcing said elements outwardly to effect expansion of the piston.

1,680,651. LIQUID REGISTER. WILLIAM EDWARD TRAYLOR, Fort Smith, Ark. Filed Oct. 9, 1925. Serial No. 61,515. 1 Claim. (Cl. 235—86.)

A mechanical movement including a frame, horizontal lower guides on the frame, horizontal upper guides on the frame, a first flexible element extended between the lower guides, thence upwardly to form side portions which are extended downwardly about the upper guides to define free depending ends located between the side portions, weights on the depending ends of the first flexible element, an upwardly extended operating device connected to the first flexible element at a point between the lower guides and mounted slidably upon the upper portion of the frame, a horizontally disposed second flexible element extended in opposite directions across the side portions of the first



flexible element at right angles thereto, the second flexible element being extended between the side portions of the first flexible element, means for supporting the second flexible element in position, and means for moving the second flexible element endwise with respect to the side portions of the first flexible element.

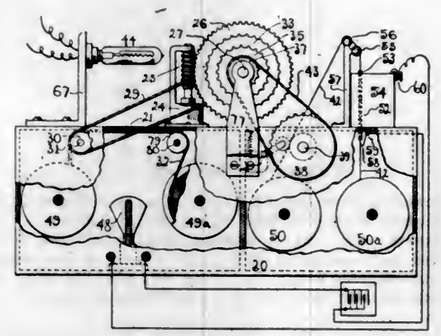
1,680,652. LUGGAGE-LOCKING DEVICE. OSSIP JOSEPH WALINSKY, New York, N. Y., assignor to White Luggage Co. Inc., New York, N. Y., a Corporation of New York. Filed Dec. 7, 1925. Serial No. 73,605. 1 Claim. (Cl. 70—115.)



The combination with a receptacle having an expanded opening, of means for closing said opening including a member slidable laterally across said opening, a lock secured to said receptacle adjacent to one end of said opening, and a hasp movably secured to said member whereby said member may be moved across said opening and being engageable with said lock to prevent movement of said member.

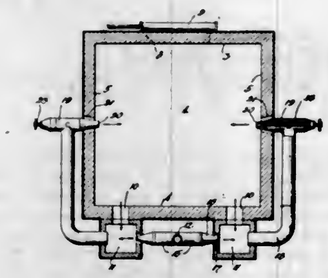
1,680,653. RECORDING AND REPRODUCING OF SOUND WAVES. JACK L. WALKER, Dallas, Tex. Filed Feb. 21, 1922. Serial No. 538,393. 7 Claims. (Cl. 179—100.)

1. The method of recording sound waves which consists in controlling an electric current by variations in a sound record film and controlling the electroplating upon a copper wire in accordance with the variations recorded upon said sound record film and producing longitudinal travel of both said copper wire and said sound record film at an extremely slow rate of speed for increasing the amount of metal deposited by said electroplating on said copper wire



and restricting the area of exposure of said sound record film and said copper wire for transferring a portion of a sound variation at a time.

1,680,654. FURNACE. WILLIAM F. WEATHERS, Detroit, Mich. Filed Apr. 16, 1926. Serial No. 102,376. 3 Claims. (Cl. 263—15.)

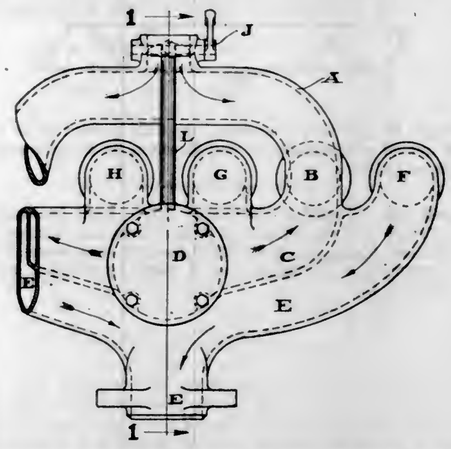


1. A furnace of the class described comprising a heating chamber, oil burners for heating said chamber, air heating chambers communicating with said heating chamber, hot air outlet pipes communicating with said air heating chambers and said burners to supply air thereto, and cold air inlet pipes communicating with said air heating chambers to supply air thereto, the cold air inlet pipes having their outlets aligned with and spaced from the inlets of the hot air outlet pipes so that the supply of cold air traverses said air heating chambers.

1,680,655. VAPORIZER. GEORGE R. WELCH, Detroit, Mich. Filed July 24, 1924. Serial No. 727,891. 1 Claim. (Cl. 123—122.)

In a vaporizer for an internal combustion engine, the combination with an exhaust manifold of an inlet manifold forming a loop and having a dependent fuel and air mixture passage forming an unrestricted return path located in heat conducting relationship with said exhaust

manifold, a mixture entrance to said inlet manifold, a throttle valve therein, a bypass around said throttle discharging into said dependent passage, whereby when the

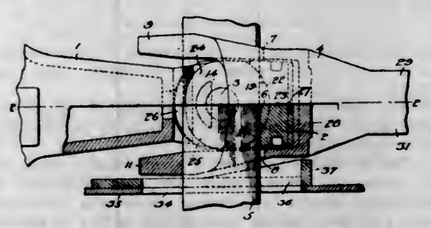


throttle is closed the explosive mixture necessary to operate the engine at idling speed is drawn through said dependent passage and vaporized therein.

1,680,656. STORAGE OF DRY CELLS AND BATTERIES. EDMUND B. WHEELER, Midland Park, and JAMES C. WRIGHT, Millburn, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 7, 1924. Serial No. 718,559. 8 Claims. (Cl. 136—1.)

1. The method of preserving cells for chemical storage of electrical energy for long periods of time which comprises subjecting the cells to be preserved to cold storage temperatures below 10° C.

1,680,657. DRAFT RIGGING. DONALD S. BARROWS, Rochester, N. Y., assignor to The Symington Company, New York, N. Y., a Corporation of Maryland. Filed Jan. 30, 1925. Serial No. 5,762. 23 Claims. (Cl. 213—71.)



1. In a railway draft rigging, the combination with a yoke having a transverse web portion connecting the forward ends thereof, of a coupler stem, and a crowned portion on the rear end thereof adapted to engage the web portion of the yoke and rock up and down thereon to a limited extent.

1,680,658. ROTATABLE SIGN. SHERMAN S. BENSON, York, Nebr. Filed Sept. 9, 1927. Serial No. 218,509. 5 Claims. (Cl. 40—39.)

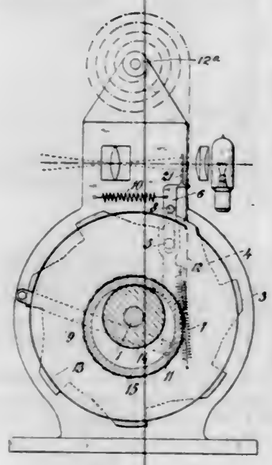
1. In a sign of the class described, an elongated hollow body portion, said body portion having an opening formed in the front surface thereof adjacent to one end of the

body portion, the rear surface of the body portion having an opening adjacent to the other end of the body portion to permit air to pass through the body portion, and



means for pivotally supporting the body portion so as to be rotaed continuously in one direction by a continuous current of air.

1,680,659. CINEMATOGRAPHIC TOY. ANNA BEKESCH, Vienna, Austria, assignor to Viktor Gross and Alexander Mayer, Vienna, Austria. Filed Nov. 21, 1925, Serial No. 70,673, and in Austria Dec. 4, 1924. 6 Claims. (Cl. 88—18.4.)



1. In a toy cinematograph, the combination with a driving shaft, of a film take-up spool supported on said shaft so as to be driven thereby, a film feeder operating independently of said spool, and means on said shaft for actuating the film feeder by direct cooperation with the same.

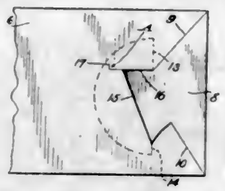
1,680,660. PARATHYROID PRODUCT. LOUIS BERMAN, New York, N. Y. Filed Aug. 11, 1925. Serial No. 49,643. 7 Claims. (Cl. 167—7.)

1. The method of treating comminuted parathyroid glands which comprises extracting with an aqueous solution of meta-phosphoric acid.

4. The method of producing a parathyroid product from the parathyroid glands which comprises extracting the comminuted glands with water containing meta-phosphoric acid and treating the aqueous extract to separate proteins therefrom, such treatment including neutralization of the solution with sodium hydroxide and filtering off of the precipitate, rendering the solution alkaline and forming a phosphate gel, filtering the liquid from the gel and neutralizing the filtrate.

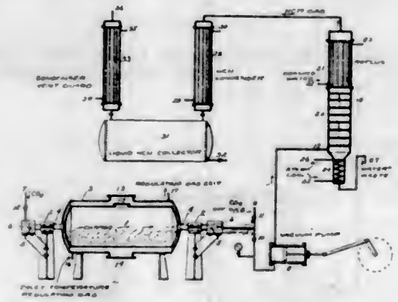
1,680,661. DOUBLE LOCK BOX. LAWRENCE H. BIRRELL, Salt Lake City, Utah, assignor of one-half to Alexander N. Rosenbaum, Los Angeles, Calif. Filed Mar. 4, 1926. Serial No. 92,252. 1 Claim. (Cl. 229—35.)

A foldable box blank including a rectangular body portion, said body portion having horizontal slits disposed in parallel relation with the side edges thereof, said body portion having substantially short locking slits at one of the respective ends of each of the first mentioned slits and extended at right angles thereto, said body portion having obliquely disposed slits merging into the first mentioned slits at points intermediate the ends thereof, end members extending from the ends of the blank, tongues



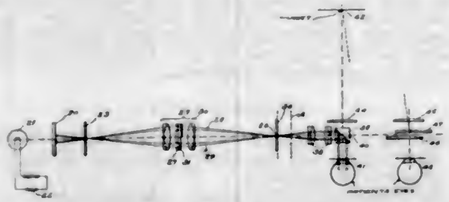
extending from the side edges of the end members, said tongues having inclined edges defining shoulders, and corners, said tongues adapted to be positioned in the first mentioned slits, the upper corners of the tongues being disposed within the locking slits when the slides and ends are bent upwardly in the formation of a box.

1,680,662. PROCESS FOR PRODUCING HYDROCYANIC ACID. MORTIMER JAY BROWN, Niagara Falls, and EARLE ATHERTON HARDING, La Salle, N. Y., assignors to Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of New York. Filed Oct. 19, 1925. Serial No. 63,247. 12 Claims. (Cl. 23—151.)



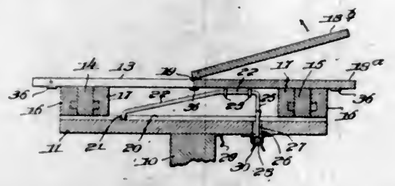
1. Process of producing hydrocyanic acid from cyanide containing material consisting in mixing the cyanide containing material with an acid salt and water, agitating the mixture, subjecting the mixture to a pressure sufficiently below atmospheric pressure to cause boiling of the water at a temperature below that at which the hydrocyanic acid would polymerize and allowing the vapors from the boiling water to sweep the evolved hydrocyanic acid from the reaction mass.

1,680,663. DYNAMIC OPTOMETER AND EYE-TESTING APPARATUS. BEN J. CAMPBELL, Hoboken, N. J. Filed May 15, 1923. Serial No. 639,041. 15 Claims. (Cl. 88—20.)



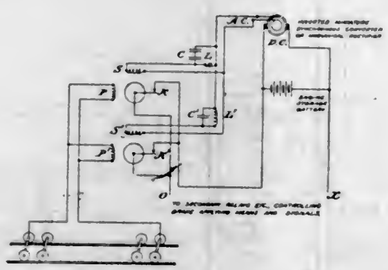
2. An eye testing instrument comprising means whereby one eye may view a distant chart and the other eye a local object or image, and measurable means associated with the vision of the distant chart whereby the apparent relative position of the local and distant objects or images may be varied, and the muscular condition and relation of the visual axes of the eyes measured.

1,680,664. EXTENSION TABLE. LINDELL CLEVELAND, Arlington, Mass. Filed July 24, 1924, Serial No. 727,877. Renewed Nov. 26, 1927. 5 Claims. (Cl. 45—112.)



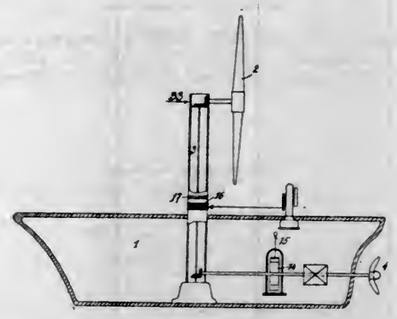
1. An extension table provided with means to house an extension leaf; a two-part hinged leaf arranged to be housed in said means; means to elevate said two-part leaf from its housed position, said last means comprising pivotally fixed guide tracks for said leaf and embracing said guide tracks; and eyes fast with said leaf whereby said leaf may be slidingly guided along said tracks.

1,680,665. AUTOMATIC TRAIN-CONTROL APPARATUS. PATRICK J. CLIFFORD, Falls, Pa., assignor, by mesne assignments, to Train Control Corporation of America, a Corporation of Delaware. Filed Feb. 20, 1923, Serial No. 620,287. Renewed Nov. 12, 1927. 2 Claims. (Cl. 246—37.)



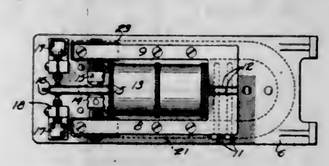
1. In combination in train control apparatus means for imposing alternating current upon the traffic rails including a track relay for each block which is de-energized when said block is occupied, an alternating current circuit which is closed by the dropping of said relay and by the picked up relay of the unoccupied block in advance, said circuit including a resistance extending across between the rails at each end of the block and with which the ends of the circuit conductor connect through the back contact of the relay of the occupied block and the front contact of the unoccupied block in advance, said conductor deriving its current through a transformer from the transmission line, primary relay means on the engine in a conductor receiving current from the traffic rail system due to the drop in potential between its points of contact therewith, and train control means on the vehicle controlled by said relay for maintaining or indicating a proceed condition while said primary relay is energized, and for causing a stop or indicating restrictive condition ahead when said primary relay is de-energized.

1,680,666. SHIP, BOAT, AND OTHER VEHICLES PROVIDED WITH AERIAL TURBINES. LOUIS CONSTANTIN, Paris, and GASTON DALOZ, Becon-les-Bruyeres, France. Filed Oct. 6, 1923, Serial No. 666,968, and in France Oct. 9, 1922. 4 Claims. (Cl. 115—3.)



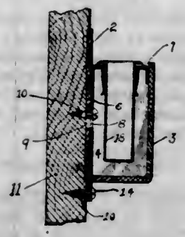
1. In a device of the type described moved by aerial turbines driving propellers, a brake placed upon the transmission, means for operating the same by foot from the helming post, a driven system for orienting the aerial turbines, means for locking the said system, means for connecting or disconnecting at will the said system.

1,680,667. ELECTROMAGNETIC DEVICE. AUSTEN M. CURTIS, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 3, 1922. Serial No. 592,028. 7 Claims. (Cl. 175—336.)



1. An electromagnet device comprising an energizing coil, pole pieces therefor, an armature and a magnetic circuit including said armature and pole pieces composed of a material comprising nickel and iron of such low coercivity that the armature operates at a precise current value substantially independent of its previous magnetic condition.

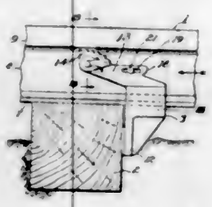
1,680,668. WALL POCKET. RUDOLPH DE BOER, Grand Rapids, Mich., assignor to Grand Rapids Metalcraft Corporation, Grand Rapids, Mich., a Corporation of Michigan. Filed Aug. 15, 1927. Serial No. 212,968. 8 Claims. (Cl. 224—29.)



1. In a device of the class described, a container having a rear wall provided with bayonet slots for securing the container to a wall, an insert member detachably fitting

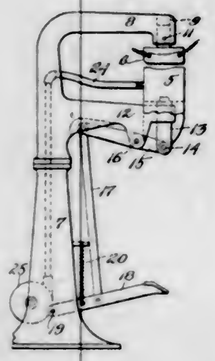
within the container and having a back and top portion, said back portion having bayonet slots adapted to register with the slots in the container and said top portion having an opening therein, and a receptacle adapted to be removably held within said opening of the insert member.

1,680,669. RAIL ANCHOR. JOHN A. DIENNER, Chicago, and ALEXANDER C. MAREE, Villa Park, Ill. Filed Apr. 17, 1924. Serial No. 707,044. 18 Claims. (Cl. 238—317.)



1. In a rail anchor, a jaw portion adapted to fit over the flange of the rail, a stop arm for engaging a tie extending down from said jaw portion, an arm extending above said jaw portion and lying along the web of the rail and a rail engaging cam pivoted to the upper end of the latter arm.

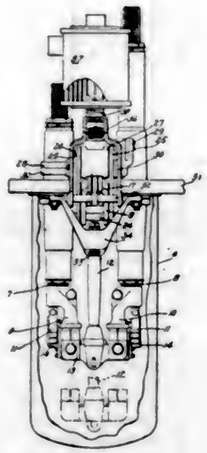
1,680,670. ART OF MAKING BOOTS AND SHOES. ALFRED WARREN DONOVAN, Rockland, Mass. Original application filed Nov. 22, 1921, Serial No. 516,978, Patent No. 1,527,540, dated Feb. 24, 1925. Divided and this application filed Feb. 14, 1925. Serial No. 9,317. 4 Claims. (Cl. 12—146.)



1. The above described method of making boot and shoe uppers which consists in first bending a flat lining blank at its middle around a supporting saddle form and maintaining it in position thereon by air pressure, and thereafter, while the lining blank is thus held to said saddle form by air pressure, applying and securing thereto a flat outside leather top piece blank.

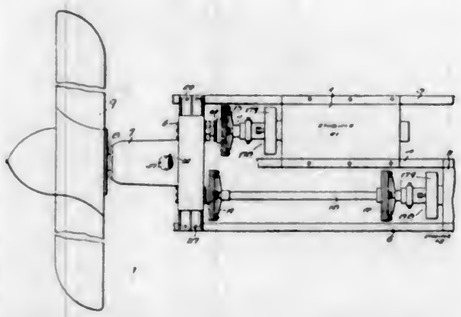
1,680,671. APPARATUS FOR INTERRUPTING ELECTRIC ARCS. OTTO H. ESCHHOLZ, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 1, 1922. Serial No. 548,792. 8 Claims. (Cl. 200—150.)

4. In combination with an oil circuit breaker, comprising an enclosed tank, a venting device therefor comprising an entrance chamber communicating with said tank through an opening in the top thereof, and having a vertical apertured wall, one or more vertical spaced partitions having



apertured areas and disposed to provide a tortuous path for outflowing gases, and an outlet from the apertures in the last partition to the atmosphere.

1,680,672. GEARING. THOMAS L. FAWICK, Racine, Wis. Filed Oct. 15, 1923. Serial No. 668,502. 19 Claims. (Cl. 74—7.)

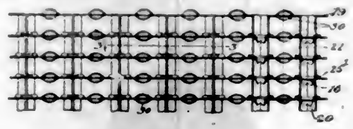


2. In combination, a first driven member, a reversing element associated with the said first driven member, a pair of elements for actuating the said first driven member, a pair of power driven members for driving said elements, one of said driven emembers having a limited degree of flexibility, and means for moving the element associated with the said flexible member laterally from said first driven member and into engagement with the reversing element.

1,680,673. CORE FOR RADIATORS. JOHN M. FEDDERS, Buffalo, N. Y., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed Nov. 7, 1925. Serial No. 67,529. 3 Claims. (Cl. 257—130.)

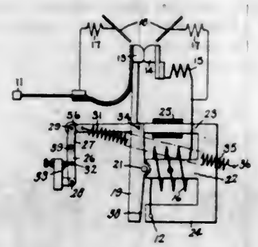
1. A radiator core having a plurality of water tubes and a plurality of air passages intercalated with said water

tubes, said core comprising a plurality of units arranged adjacent to each other and each unit being constructed of a sheet of metal which is bent to form a plurality of pleats and a plurality of webs, the walls of each pleat being spaced apart but connected with each other at one pair of corresponding longitudinal outer edges while their transverse edges at the ends thereof abut against one another to form a tube section, and each of said webs connecting the opposite longitudinal inner edge of one wall of a tube



section with the corresponding longitudinal inner edge of the wall of an adjacent tube section, the outer ends of the tube section of one unit being provided with laterally projecting ribs which engage the webs around the inner ends of the tube sections of an adjacent unit and also provided with outwardly bulging parts fitting into the ends of adjacent tube sections, the tube sections of the several units communicating to form said water tubes and the webs of adjacent units being spaced apart to form said air passages.

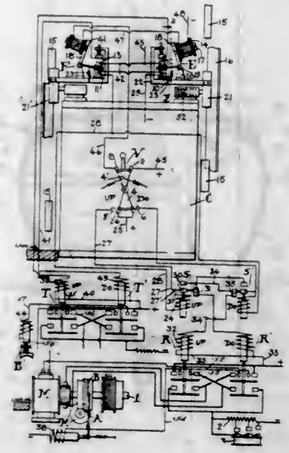
1,680,674. ELECTRIC SWITCH. ALAN STEWART FITZGERALD, London, England, assignor to General Electric Company, a Corporation of New York. Filed Sept. 8, 1924, Serial No. 736,390, and in Great Britain Sept. 22, 1923. 12 Claims. (Cl. 200—94.)



2. In an overload circuit breaker, the combination of cooperating circuit controlling contacts, means for biasing the contacts into circuit closing engagement, means comprising a single winding energized in accordance with the current in the circuit controlled by the circuit breaker and a magnetic structure therefor including a movable magnetic member arranged to assist said biasing means for holding said contacts in circuit closing position when the current in the circuit is below a predetermined value and to oppose said biasing means to effect the opening of said contacts when the current in the circuit is above said value, and means responsive to the rate of change of flux in said structure for determining the value of current in the circuit at which said movable magnetic member is operated to open said contacts.

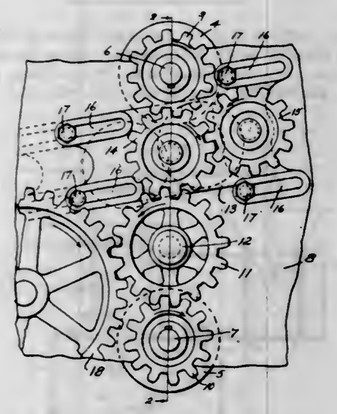
1,680,675. MAGNETIC SYSTEM TO CONTROL THE STOP AND LEVELING OF ELEVATORS. ARTHUR S. GALE, Yonkers, N. Y. Filed Dec. 21, 1925. Serial No. 76,695. 57 Claims. (Cl. 187—29.)

56. A system of control for elevators, comprising in combination, a car, motive means to move said car at different rates of speed, control means consisting of a car start switch, contactors to effect automatic slowdown, additional contactors to effect automatic stop, and actuating means for said contactors comprising electro-



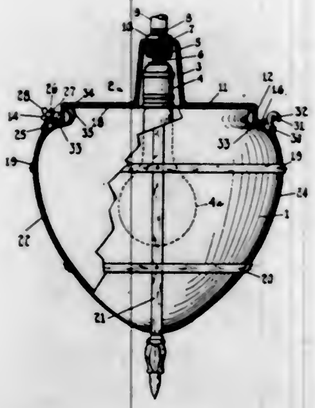
responsive means part on the car and part in the hoistway brought into and out of attractive relation by car movement.

1,680,676. MEANS FOR REVERSING ROLLERS AND THE LIKE RELATIVE TO EACH OTHER. HARRY GEARING, Los Angeles, Calif., assignor to Nebraska Printing Company, Lincoln, Nebr. Filed Sept. 20, 1926. Serial No. 136,496. 2 Claims. (Cl. 74—58.)



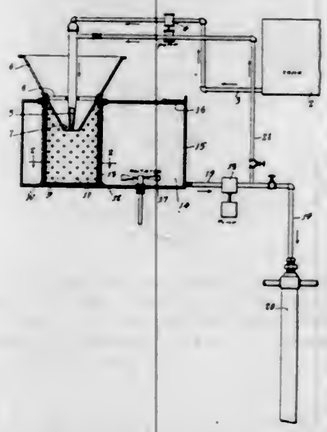
1. In printing machinery, in combination, a frame member, spaced rollers supported in said frame member, means for reversing the direction of rotation of said rollers relative to each other, said means including three gears, one of said gears being in mesh with the other two gears, a carrier member having bolt receiving loops for adjustably mounting it on said frame member, said carrier member being movable crosswise of the line of said three gears, said carrier member having an extra gear and said one or intermediate gear mounted thereon in mesh with each other and moving therewith, said carrier member being movable to move said one gear out of mesh with one of said other two gears and to move said extra gear into mesh with said other gear, whereby all four gears are moved into mesh with each other.

1,680,677. LIGHTING FIXTURE. EDWIN F. GUTH, St. Louis, Mo. Filed Feb. 10, 1925. Serial No. 8,100. 2 Claims. (Cl. 240—128.)



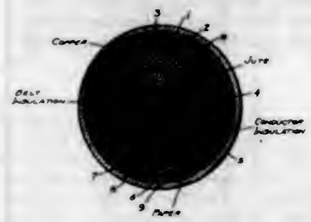
1. A lighting fixture comprising a globe holder with a substantially horizontal main portion and depending peripheral flange on said portion; a globe to fit within said globe holder; a carriage, which supports said globe when in both open and closed positions, comprised of metal straps, surrounding said globe; a hook to secure said metal carriage to the peripheral flange, one member of the hook being on the flange and the other member of the hook being on the carriage; adjustable means for securing the metal carriage to the globe holder, substantially as shown and described.

1,680,678. METHOD AND APPARATUS FOR HYDRATING CEMENT AND THE LIKE. ERLE PALMER HALLIBURTON, Los Angeles, Calif. Filed Aug. 9, 1926. Serial No. 128,300. 8 Claims. (Cl. 83—73.)



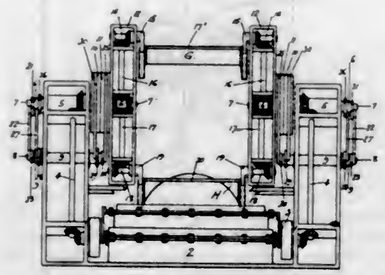
1. A method of producing a fluent mixture of cement and liquid, which comprises producing a high velocity stream or current of such liquid for creating a region of reduced pressure in a mixing chamber, depositing cement adjacent to said chamber for permitting such stream or current of liquid to advance the cement in response to the action and in the presence of such reduced pressure, passing the materials to an enlarged chamber, and discharging materials therefrom in small streams.

1,680,679. HIGH-TENSION UNDERGROUND CABLE. WILLIAM C. HAYMAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 25, 1927. Serial No. 228,646. 4 Claims. (Cl. 173—266.)



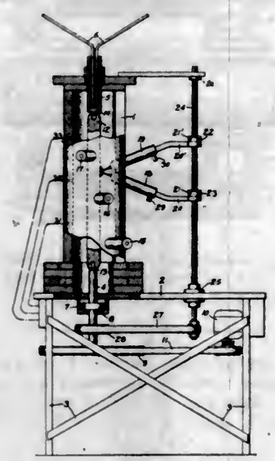
1. In a cable, the combination of a number of separately-insulated conductors, a belt of insulation which surrounds the conductors and binds them together, and fillers for the spaces between the conductor coverings and the belt insulation, each of which comprises side members which are made of paper and a central member located between the side members and which is made of jute.

1,680,680. BUOYING AND DRIVING MECHANISM FOR FLYING MACHINES. GUSTAV HEDÉN, New York, N. Y. Filed Feb. 7, 1927. Serial No. 166,426. 3 Claims. (Cl. 244—25.)



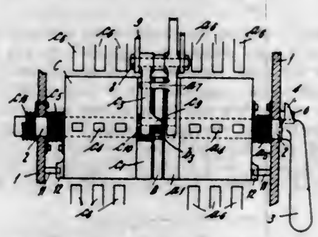
1. A flying machine, comprising a body having at each side separate parallel transmission frames rotatably mounted therein, said transmission frames being rotatable in a vertical plane and having at each end horizontal rotatable and oscillatable shafts mounted separately therein in pairs on a common longitudinal axis, said shafts having partially elastic parallel wing arms rigidly affixed thereto, flexible wings with taut or stiff front edges and loose rear edges mounted between each two wing arms at same ends of said transmission frames, means for rotating the transmission frames in unison and means for oscillating the wing arms in said transmission frames in such manner that their oscillation is in the opposite direction to that of the rotation of said transmission frames in their descent but in the same direction in their ascent.

1,680,681. PROCESS OF TREATING SILICA ARTICLES. EUGENE HERZOG, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Jan. 21, 1926. Serial No. 82,824. 4 Claims. (Cl. 49—78.1.)



3. The method of fabricating a massive silica article which consists in heating said article to an ambient temperature of about 1000° C., locally fusing the surface of said article while the article as a whole remains unfused and annealing said article before cooling occurs.

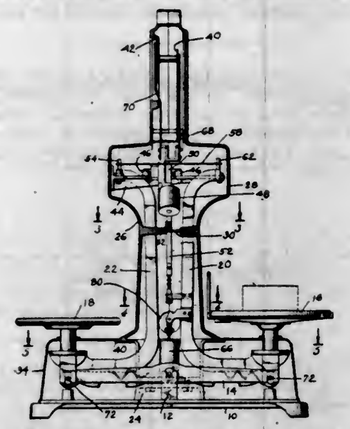
1,680,682. SWITCH GEAR FOR STARTING AND CONTROLLING ELECTRIC MOTORS. JOHN ARTHUR HIRST, Chester, England. Filed July 18, 1924, Serial No. 726,846, and in Great Britain July 24, 1923. Renewed June 21, 1928. 11 Claims. (Cl. 200—5.)



1. In electric switchgear in combination;—two movable switch parts; fixed contacts with which one of the switch parts contacts when in its initial position; fixed contacts with which the said switch part contacts when in its secondary position; fixed contacts with which the other switch part contacts when in its secondary position; means tending to move both switch parts into their initial positions; operating mechanism adapted to move the two said switch parts in opposition to the said means from their initial positions to their secondary positions; a detent device adapted to hold the second mentioned switch part in its secondary position; and means adapted to release the said detent device; substantially as described.

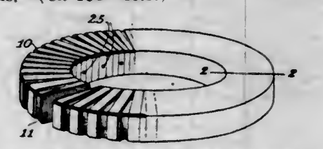
1,680,683. WEIGHING SCALE. JOSEPH HOPKINSON, Dayton, Ohio, assignor to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed Mar. 19, 1926, Serial No. 95,816, and in Great Britain Dec. 23, 1925. 6 Claims. (Cl. 265—61.)

1. In an automatic scale, in combination, a lever pivoted intermediate its ends, platforms pivotally supported by said lever, check members extending upwardly from said platforms, check stays cooperating with the upper ends of said check members, a pendulum connected



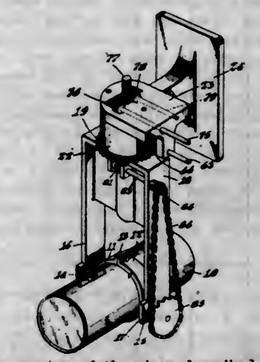
to one of said check members, and a chart at right angles to said lever, said chart being immediately above and said pendulum immediately below said check stays.

1,680,684. ROD PACKING. ARTHUR C. JUDD, New York, N. Y. Filed July 18, 1922. Serial No. 575,868. 4 Claims. (Cl. 154—45.5.)



4. Rod-packing comprising tubing composed of turns of thin soft metal, capable of being bent to ring form on a short radius of curvature without collapse or deformation of its cross sectional shape and without stretching of the metal on the outer face of the ring or thickening of the metal on the inner surface; said tubing containing plastic lubricant, having means permitting the lubricant to escape slowly when the packing is in use, said turns of thin soft metal having at their adjoining edges integral means cooperating with each other to prevent formation of openings between turns when the tubing is bent to ring form.

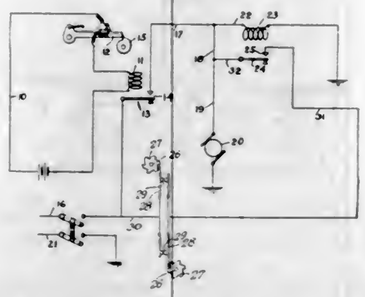
1,680,685. LIGHT PROJECTOR. HERBERT F. KING, Newtonville, Mass. Filed Apr. 27, 1925. Serial No. 26,314. 19 Claims. (Cl. 240—61.)



2. An apparatus of the class described having, in combination, a light projector, mechanism for tipping the light

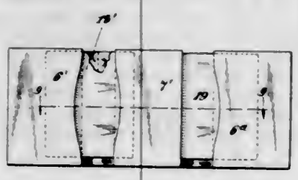
projector and means for actuating said mechanism and for controlling the direction and extent of the tipping movement including a pin wheel and a pair of disks provided with a plurality of pins for rotating the pin wheel.

1,680,686. CONTROLLING SYSTEM FOR MOTOR-DRIVEN CLOCKS. SAUL KEILIEN, Binghamton, N. Y., assignor to International Time Recording Company of New York, Endicott, N. Y., a Corporation of New York. Filed Sept. 14, 1925. Serial No. 56,107. 7 Claims. (Cl. 58—24.)



1. A secondary clock operating system comprising, in combination, a controlling circuit, a motor, a circuit for starting said motor, a third circuit for operating said motor, and contacts controlled by said motor for terminating the operation of said motor after a predetermined duration of operation of said motor.

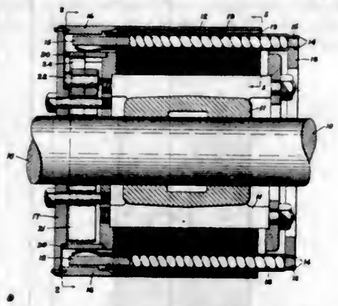
1,680,687. BILL FOLD. CHARLES L'ENFANT, New York, N. Y. Filed Apr. 16, 1926. Serial No. 102,409. 4 Claims. (Cl. 150—38.)



3. A foldable case comprising an outer wall and two inner wall sections longitudinally spaced apart and attached along their outer end and bottom edges to said outer wall, each of said inner wall sections having a pocket open at the inner opposed ends of said wall sections, a flexible sheet of material attached to the lower edge of said outer wall and fixed upon the inner side walls of said pockets and bridging the space between the open ends of the pockets, and a flexible part attached to said sheet of material between the open ends of said pockets and having unsecured portions extending in opposite directions from the point of attachment thereof and into the respective pockets for free movement longitudinally between and relatively to the pocket walls when the case is folded.

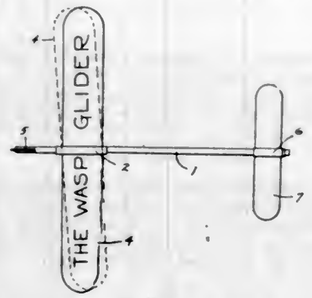
1,680,688. INDUCTION MOTOR. HOWARD MAXWELL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 24, 1923. Serial No. 670,577. 14 Claims. (Cl. 172—280.)

3. In an induction motor of the squirrel-cage type, the combination of a rotor having conductor slots therein, conductors in said slots forming a high and a lower resistance winding, end-rings, and means independent of



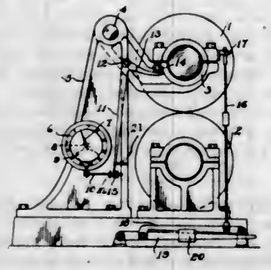
said windings cooperating with said high resistance winding to move said low resistance winding into and out of operative connection with said end-rings.

1,680,689. TOY GLIDER. MILTON P. MILLER, Dubuque, Iowa, assignor to George D. Wanner & Company, Dayton, Ohio. Filed Dec. 17, 1925, Serial No. 75,966. Renewed Dec. 7, 1927. 1 Claim. (Cl. 46—50.)



A toy glider, adapted for being sailed through the air, consisting of a body member and plane attached thereto near one of its ends, suitable for receiving inscriptions, a frame fixed to the opposite end of said bar, having a downwardly curved bar and loops at one end thereof, and a plane adapted for support in said last-named frame, with one of its edges positioned selectively in one or other of said loops, said plane conforming to the shape of said curved bar when positioned in the upper loop.

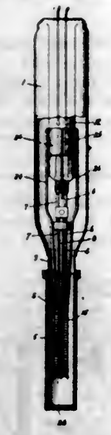
1,680,690. CALIBRATING INSTRUMENT FOR PAPER-MAKING MACHINES. LLOYD T. MURPHY, Franklin, Ohio. Filed Apr. 11, 1927. Serial No. 182,749. 5 Claims. (Cl. 33—147.)



1. A calibrating instrument for a paper making machine including in combination with a part of the machine, as a press roll, movable responsively to the variable

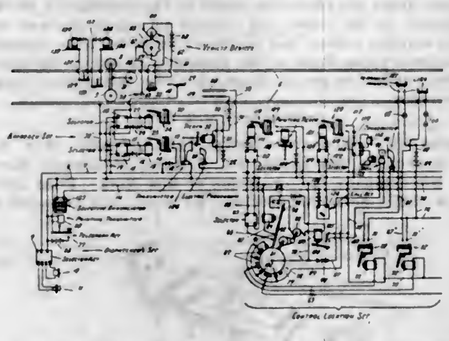
thickness of the paper running on the machine, a dial associated with the instrument for registering the variations of said movement, and a lever pivoted on a fixed part of the machine and having a short arm operatively connected to said part and a relatively long arm operatively connected to the instrument for compounding and indicating the extent of said movement on said dial.

1,680,691. ELECTRON-DISCHARGE DEVICE. HENRY J. NOLTE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Original application filed Feb. 7, 1921, Serial No. 443,005. Divided and this application filed Sept. 18, 1923. Serial No. 663,470. 4 Claims. (Cl. 250—27.5.)



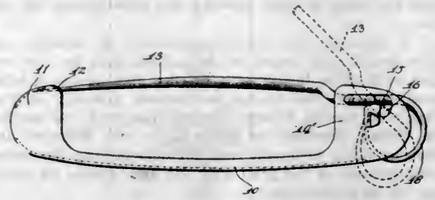
1. The method of removing occluded gas during the exhaustion of an electron discharge device comprising a filamentary cathode adapted to be heated to incandescence and an anode, which consists in first heating the anode, by heat radiated from the cathode, to a temperature sufficiently high to drive off a large portion of the occluded gas in the metal parts of the device, and then bombarding the anode by means of electrons emitted from the cathode.

1,680,692. TRAIN-DISPATCHING APPARATUS. ROBERT L. PAGE, Greenville, Miss. Filed Sept. 8, 1925. Serial No. 55,099. 40 Claims. (Cl. 246—4.)



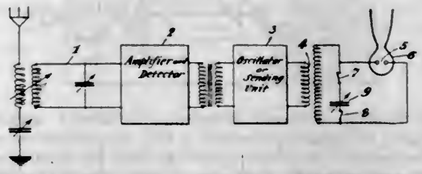
1. A train dispatching system comprising a telephone circuit including a dispatcher's receiver, and train-controlled means at the approach to each of a plurality of control locations of the track operable when a train passes to transmit distinctive telephonic sound waves to said circuit.

1,680,693. SAFETY PIN. ARNOLD PHILIPP, Chicago, Ill. Filed Apr. 2, 1927. Serial No. 180,385. 6 Claims. (Cl. 24—162.)



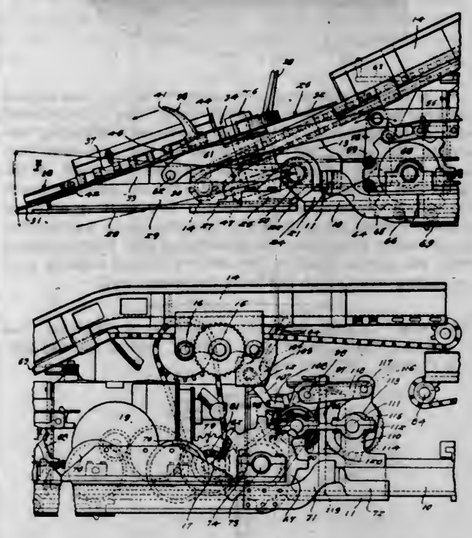
1. In a safety pin, a back portion, a pin or needle portion, a point receiving clasp at one end of said back portion, means at the opposite end of said back portion for automatically guiding and directing said pin into said clasp and a spring joining said pin to said back portion normally urging said pin toward said clasp.

1,680,694. SOUND-REPRODUCING METHOD AND APPARATUS. GEORGE RAMSEY, Brooklyn, N. Y. Filed Apr. 21, 1924. Serial No. 707,863. 16 Claims. (Cl. 250—20.)



1. The method of reproducing sound which comprises producing an electrial spark by a superaudible frequency current and modulating the spark current with an audible frequency current.

1,680,695. CONVEYER. CHARLES W. SHANABERGER, Johnstown, Pa., assignor to J. C. Platz, trustee, Pittsburgh, Pa. Filed Feb. 20, 1926. Serial No. 89,743. 13 Claims. (Cl. 198—8.)

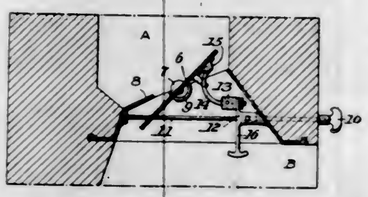


1. In a portable loading conveyer, a bed, a shoe pivoted to the forward end of the bed and including forwardly converging plates, a conveyer mounted upon the bed and

having a forwardly declining end projecting between the plates of the shoe, loading mechanism for the conveyer carried by the shoe, and a drive for the loading mechanism including a shaft forming the pivotal axis for the shoe.

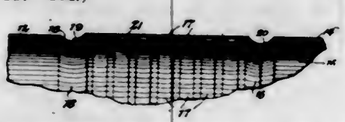
6. A drive for the tractor elements of loading machines including a conveyer and loading shoe for the conveyer, said drive including a ratchet disk having driving connection with the tractor mechanism, a slowly reciprocating arm having a pawl for coaction with the ratchet disk during operation of the arm in one direction and means coacting with said pawl for determining the period of engagement of the pawl with the disk during its movement in such direction.

1,680,696. DAMPER. WILLIAM L. SHARP, Steubenville, Ohio, assignor to The Ohio Foundry & Manufacturing Company, Steubenville, Ohio, a Corporation of Ohio. Filed Oct. 5, 1927. Serial No. 224,174. 5 Claims. (Cl. 126—288.)



1. Damper structure comprising a tiltably mounted damper, an operating member, a link, and jointed connections between the ends of the link and the damper and said member, respectively, one of said connections being in the form of a universal joint.

1,680,697. HOLLOW BODY. FRANKLIN G. SLAGEL, Buffalo, N. Y., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed July 5, 1927. Serial No. 203,304. 2 Claims. (Cl. 137—104.)



1. A hollow elongated body comprising two cup-shaped sections of sheet metal each of which has a cylindrical side wall, the walls of the two sections telescoping one within the other, the inner wall having a partial stop bead extending circumferentially around this wall at the inner end of the same and a plurality of complete beads extending circumferentially around this wall at different distances from the end thereof, and the outer wall having an inwardly projecting circumferential stop bead engaging with the partial bead of the inner wall and a blank part extending over other beads of the inner wall.

1,680,698. HAIR WAVER. BEULAH E. SLATER, Los Angeles, Calif. Filed Aug. 9, 1927. Serial No. 211,720. 3 Claims. (Cl. 132—39.)



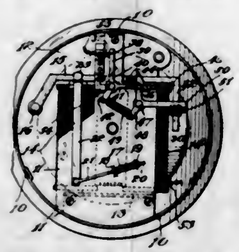
1. In a hair waver, an elongated rigid member, rounded on one side and flattened on the other and having its edges tapered toward its ends, substantially as described.

1,680,699. STAMP MOUNTING AND LABEL. ALBERT K. SMITH, Jr., Los Angeles, Calif., assignor to Chipron Stamp Company, Los Angeles, Calif., a Corporation of California. Filed June 7, 1927. Serial No. 197,041. 2 Claims. (Cl. 40—16.)



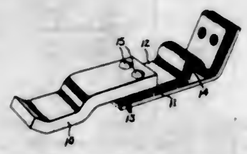
1. A mount of the character described having on the face thereof a shallow groove with a flat bottom, a transparent sheet having its edges underturned to provide an envelope of substantially the same thickness as the depth of said groove, and an insertable label in said envelope, said envelope being adhesively secured to the bottom of said groove.

1,680,700. ELECTRICALLY-OPERATED CLOCK. MARK A. STANDOW, Newark, N. J. Filed Aug. 21, 1925. Serial No. 51,574. 1 Claim. (Cl. 58—41.)



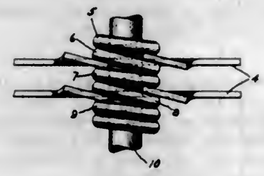
An electric driving mechanism for a clock train comprising a frame, a magnetic coil, an armature pivoted at one side of the coil, extending across said coil and having a tripping finger at its free end and a transverse finger on the side thereof, a stirrup secured on the armature, a spring to yieldingly influence one end of the stirrup, a pawl carried by the other end of the stirrup, a ratchet actuated by the pawl and connected to the clock train, a fixed contact on the frame, a movable contact pivoted on the frame with an arm to engage the fixed contact and a lever under the transverse finger of the armature, a catch pivoted on the frame and adapted to engage the arm of the movable contact and having an extension to be tripped by the tripping finger of the armature, an ear on the movable contact, an ear on the catch, and a spring connecting the ears.

1,680,701. CONTACT-CONNECTER SHUNT. RAY L. STANCLIFF, Wesleyville, Pa., assignor to General Electric Company, a Corporation of New York. Filed Apr. 4, 1927. Serial No. 180,745. 4 Claims. (Cl. 200—166.)



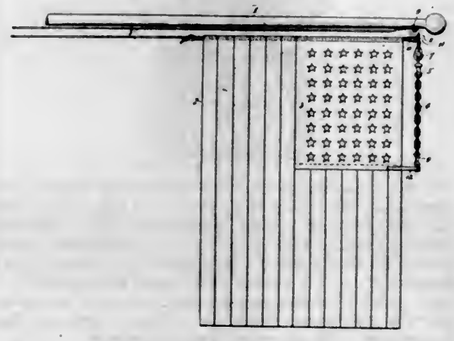
1. An electric connecter shunt formed of superimposed laminations folded over in the middle with the folded-over middle portions of the inner laminations nesting within the outer laminations to form the end of the shunt.

1,680,702. ELECTRIC CONDENSER. OSCAR STEINER, Philadelphia, Pa., assignor to General Electric Company, a Corporation of New York. Filed July 19, 1926. Serial No. 123,422. 4 Claims. (Cl. 175—41.5.)



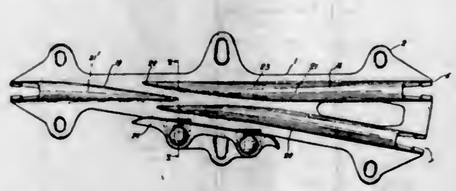
1. In an electric condenser, a spring having a number of convolutions coiled about an axis, a plurality of spaced metal plates, each of which is held in place between the different convolutions of the spring.

1,680,703. FLAG ATTACHMENT. CORNELIUS SULLIVAN, Boston, Mass. Filed May 7, 1928. Serial No. 275,770. 1 Claim. (Cl. 116—173.)



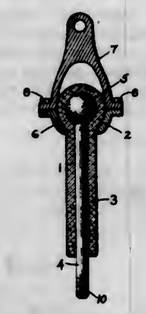
A chain attached to the pull in cord of a flag at top by swivel and yoke connection and at bottom by swivel, the same being attached to projecting piece at the bottom of the field of the flag.

1,680,704. TROLLEY FROG. PAUL G. SWARS, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 19, 1927. Serial No. 169,513. 13 Claims. (Cl. 191—38.)



1. A trolley frog comprising two runners having high guiding portions the top wearing surfaces of which converge toward each other and then diverge from each other in the same plane.

1,680,705. METHOD OF MAKING INSULATORS. ELIHU THOMSON, Swampscott, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 29, 1922. Serial No. 604,075. 2 Claims. (Cl. 173—318.)



1. The method of making electric insulators comprising the forming of an insulating member of fused quartz with a bore and forming therein by fusion of metallic pin.

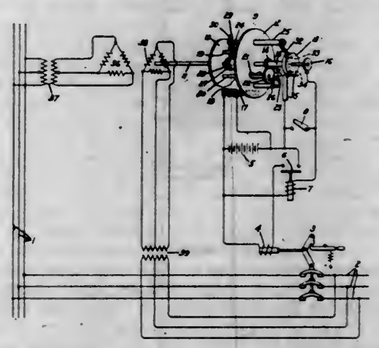
2. The method of making electric strain insulators comprising the forming of an insulating member of fused quartz with a bore therein enlarged to provide an internal shoulder, and forming in said bore a metallic tension member.

1,680,706. BRACELET. CHARLES R. TOST, Centerdale, R. I., assignor to The Hadley Company, Providence, R. I., a Corporation of Rhode Island. Filed June 9, 1927. Serial No. 197,657. 3 Claims. (Cl. 24—230.)



1. A bracelet comprising male and female links having tongue and groove parts telescoping together along a line extending crosswise of the bracelet, and a spring pressing said parts against each other transversely of said line for frictionally maintaining the links in interengagement.

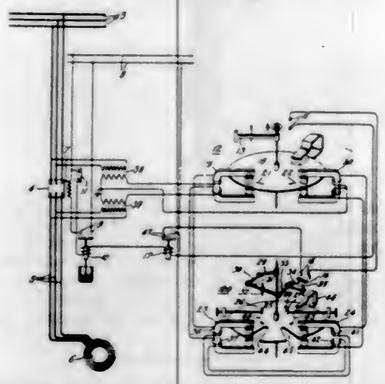
1,680,707. SYNCHRONIZING DEVICE. OLIVER C. TRAVER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 31, 1925. Serial No. 78,714. 12 Claims. (Cl. 171—118.)



2. A synchronizing device comprising a shaft, a driving member fixed to said shaft, a pair of contact members rotatable about said shaft, and means interposed between

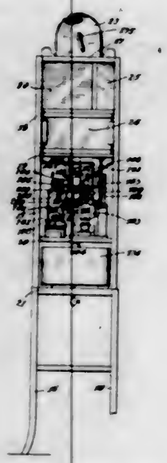
said driving member and said contact members for maintaining between the contacts of said contact members a space relation which is dependent on the speed of said shaft.

1,680,708. RELAY. OLIVER C. TRAVER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Original application filed Nov. 24, 1926, Serial No. 150,606. Divided and this application filed Apr. 30, 1927. Serial No. 188,008. 5 Claims. (Cl. 200—91.)



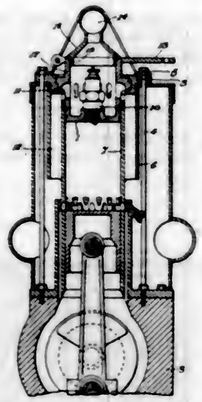
1. A differential relay comprising relatively movable cooperating contacts, a member movable between two positions, electro-magnetic means for moving the member arranged to exert opposing torques thereon, and contact controlling mechanism arranged to be actuated on movement of the member due to an unbalance of the torques exerted thereon for effecting a momentary closure of the contacts as the member moves through an intermediate position.

1,680,709. COIN-CONTROLLED PHOTOGRAPHIC MACHINE. GUSTAV A. SVASBERG, Fort Lee, N. J., assignor of one-half to Andrew A. Hayek, Fort Lee, N. J. Filed Sept. 18, 1926. Serial No. 136,229. 19 Claims. (Cl. 95—1.4.)



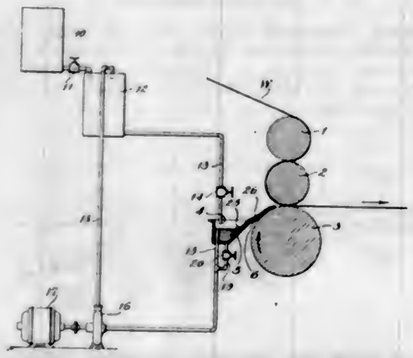
1. In a photographic machine the combination of a casing, a camera journaled upon said casing and free to move angularly in relation thereto, brake mechanism carried by said casing and connected with said camera, for holding said camera in different angular positions of adjustment, a plate supporter connected with said camera for supporting a plate within said camera during the exposure of said plate, mechanism connected with said plate supporter for causing said plate supporter to release said photographic plate after the exposure thereof, and a plate holder for receiving said photographic plate and holding it in position to be developed and washed.

1,680,710. CYLINDER OF INTERNAL-COMBUSTION ENGINES. ARTHUR WILLIAM WALL, Sheldon, near Birmingham, England, assignor of three-fourths to John White, Handsworth, Birmingham, England. Filed Feb. 17, 1925, Serial No. 9,721, and in Great Britain Mar. 5, 1924. 7 Claims. (Cl. 123—48.)



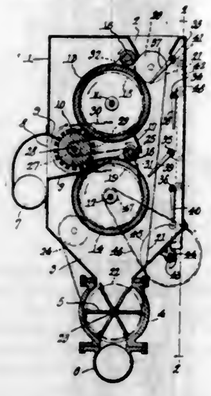
1. In a two-stroke internal combustion engine, the combination with the working piston and the cylinder having inlet and outlet ports immediately above the dead center position of said piston, of a screw-threaded piston forming the closed end of said cylinder and movable in the direction of its longitudinal axis, means for rotating said piston thereby causing its axial movement, and in connection with said piston means for causing a continual flow of a gaseous cooling medium over said cylinder.

1,680,711. ART OF STRIPING PAPER. EDWARD B. WESTON, Dayton, Ohio, and WILLIAM G. CLARK, Terre Haute, Ind., assignors to The Weston Paper and Mfg. Co., Dayton, Ohio, a Corporation of Ohio. Filed July 3, 1926. Serial No. 120,337. 4 Claims. (Cl. 91—38.)



1. A striping attachment for paper-making machines, adapted to cooperate with one of a pair of plain faced web-finishing rollers of the machine, said attachement comprising a color trough having a lip arranged adjacent and at a tangent to the periphery of the lowermost of said pair of rollers, and a plurality of wick-strands each having intermediate portion supported by the lip of said trough, and the other end resting upon the periphery of said last-named roller to be straightened by the drag thereof, the arrangement being such that spaced lines of color will be applied to the said roller by the said wick-strands to be immediately transferred to the paper web passing between the said pair of finishing rollers.

1,680,712. COTTON-SEPARATING MACHINE. RALPH E. WILSON, Dallas, Tex. Filed Nov. 22, 1926. Serial No. 149,940. 9 Claims. (Cl. 19—37.)



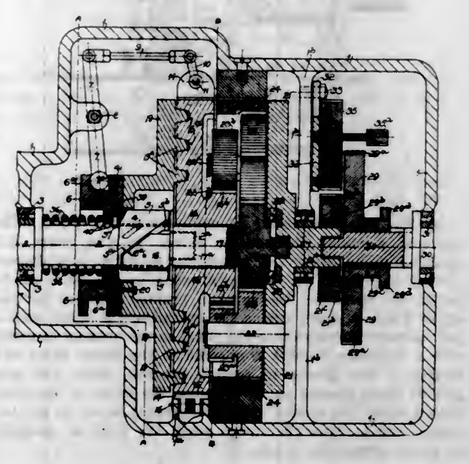
1. The combination with a toothed cylinder mounted for rotation and a stripper roller thereabove and adjacent thereto, of means for feeding cotton by gravity to the cylinder, a plurality of movable racks, and means for positively actuating the racks for cooperation with the cylinder to intermittently retard the gravitation of the cotton and presenting it to the cylinder.

1,680,713. BOTTLE-CLEANING BRUSH. EDWARD H. WITTENBERG, La Crosse, Wis. Filed June 30, 1925, Serial No. 40,578. Renewed Jan. 6, 1928. 6 Claims. (Cl. 15—26.)



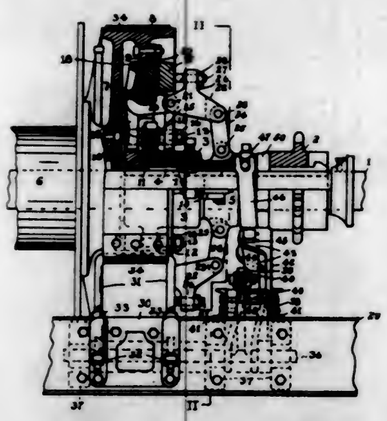
1. A bottle cleaner comprising a rotary rod, a brush connected with the lower end of said rod for turning with the same, a hollow collar loose upon said rod and constituting a bearing adapted to rest upon the upper end of a bottle neck, said collar including an inner cup having a head to rest upon the bottle neck and an upstanding wall and an outer cup removable from the inner cup and having a head supported upon the upper edge of the wall of the inner cup and a depending wall extending downwardly about the inner cup, an abutment carried by said rod between the heads of said cups and adjustable longitudinally of the rod, and means adapted to impart rotary movement to said rod.

1,680,714. VARIABLE-SPEED GEAR. RICHARD COBDEN WORTHINGTON and HERBERT MILNER, Blackpool, England. Filed June 9, 1925, Serial No. 36,063, and in Great Britain June 19, 1924. 5 Claims. (Cl. 74—34.)



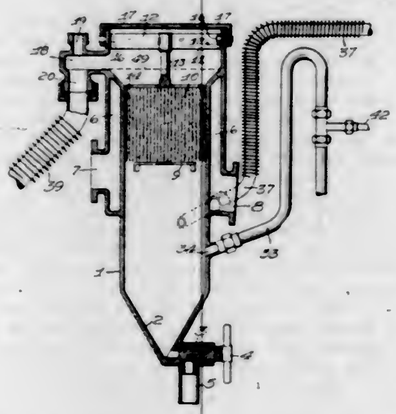
1. Power transmission gearing, comprising a driving shaft provided with a slidable clutch member; a second clutch member provided with a toothed wheel; a disc revolubly disposed around said second clutch member, and with which said first mentioned clutch member is adapted to engage; a toothed wheel formed on said disc; a plate to which a driven shaft is connected; toothed wheels carried by said plate, in mesh with the wheel of said second clutch member; other toothed wheels carried by said plate in mesh with the wheel of said disc, and a one-way internally toothed wheel in mesh with the first-mentioned toothed wheels carried by said plate; means whereby said slidable clutch member may engage said disc under spring influence which also tends to maintain said clutch members in engagement; a brake disposed around said disc and so connnected with said slidable clutch member that when the clutch members are in full engagement the "drive" is "solid" said slidable clutch member being in engagement with the disc which is free to rotate, and when the torque effort or load becomes greater than the power, disengagement or partial disengagement of the clutch members ensue, and the consequential movement of said sliding clutch member causes its withdrawal from said disc, and causes the braking thereof to effect gear reduction; and on the continued increasing of the torque effort or load relative to the power, said disc is unbraked and a further gear reduction takes place; and when the power overcomes the torque effort or load the "drive" automatically returns to second gear and thence to "solid".

1,680,715. COORDINATED BRAKE AND CLUTCH MECHANISM. CLYDE S. WRIGHT and JOSEPH R. MAHAN, Toledo, Ohio, assignors to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 5, 1927. Serial No. 181,055. 4 Claims. (Cl. 192—17.)



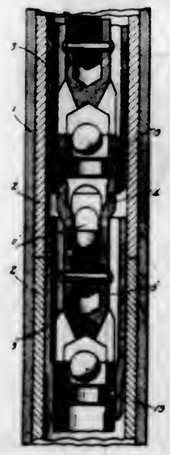
1. The combination of a shaft, a brake drum loose thereon, a clutch mechanism driven by the shaft and adapted to be connected to the brake drum and disconnected therefrom, a lever connected to the said mechanism for operating the same, a braking element for the brake drum, a shaft, means for operating the same, means for operatively connecting the shaft to the braking element, and a rotatable member connected to the latter shaft and having a cam groove to receive the said lever, the said groove being shaped so as to cause the lever to open the clutch when the second shaft is operated so as to set the brake, and to close the clutch when the shaft is operated so as to release the brake.

1,680,716. OIL PURIFIER. DAVID F. ZOOK, Evanston, Ill. Filed Nov. 5, 1926. Serial No. 146,460. 11 Claims. (Cl. 123—196.)



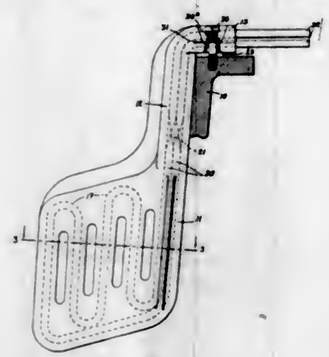
1. In an oil purifying device for internal combustion engines, a chamber having a settling well, means for pumping oil from the crank case into said chamber, whereby a portion of the foreign matter is permitted to settle, means for conducting a clearer portion of the oil to the points of lubrication, means in said chamber for filtering another portion of the oil, and means for conducting the filtered portion of the oil to the crank case.

1,680,717. RECIPROCATING PUMP WITH INDIVIDUAL JOINTS BETWEEN PLUNGERS. JOHN A. ZUALIN, Los Angeles, and WILLARD L. BOROUGH, Fullerton, Calif.; said Borough assignor to said Zublin. Filed Feb. 13, 1924. Serial No. 692,514. 9 Claims. (Cl. 103—194.)



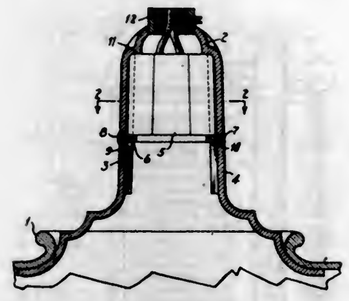
1. A reciprocating pump comprising: a plurality of plungers disposed endwise to each other; and means for loosely connecting said plungers together, said means functioning additionally as a valve cage.

1,680,718. ELECTRIC HEATER. CHARLES C. ABBOTT, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed July 5, 1927. Serial No. 203,297. 7 Claims. (Cl. 219—41.)



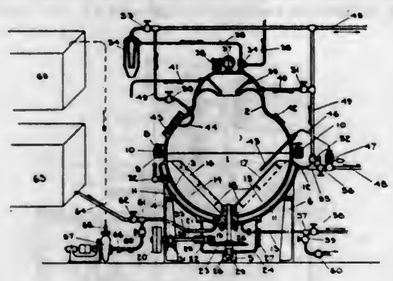
1. An immersion heater for type-metal pots comprising an enlarged body portion and an upwardly extending neck portion and electric heating means for said body portion extending upward into said neck portion whereby the metal is softened around said neck portion to provide a vent at the top for expansion of molten metal at the bottom of said pot.

1,680,719. SCREWLESS GLOBE HOLDER. GEORGE AINSWORTH, Great Neck, N. Y. Filed Mar. 3, 1927. Serial No. 172,234. 6 Claims. (Cl. 240—128.)



1. A globe support, comprising a porcelain socket having angular sides, a U-shaped yoke stamped to conform to said angular sides, the ends of the arms of the yoke being extended horizontally, and means to hold said socket between the arms of the yoke and in engagement with said angular configuration.

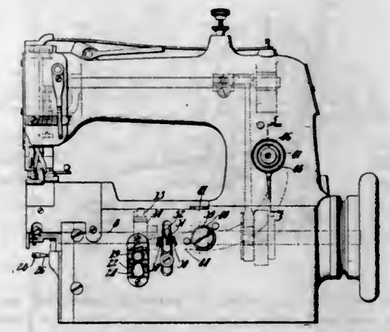
1,680,720. APPARATUS FOR PASTEURIZING AND DEODORIZING CREAM. FREDERICK LOUIS ARMITAGE, Devonport, near Auckland, New Zealand. Filed July 17, 1925, Serial No. 44,210, and in New Zealand Aug. 2, 1924. 1 Claim. (Cl. 99—15.)



In an apparatus for simultaneously Pasteurizing and deodorizing cream, a container having a top section and a bottom section detachably connected together, froth-repelling means carried within said top section at the top thereof, and scraping means rotatable within the bottom section and in contact with the wall thereof.

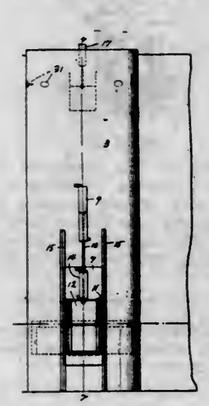
1,680,721. THREAD-CONTROLLING MECHANISM FOR SEWING MACHINES. RUDOLPH BECKER, Plainfield, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Feb. 4, 1926. Serial No. 85,842. 6 Claims. (Cl. 112—23.)

1. In a thread-nipper mechanism for sewing machines, the combination with coacting thread-nipping members, one of which is active and the other of which is adjustable toward and away from the active member, of an



operating cam for actuating the active nipper member having a graduated eccentric nipper-closing portion and an abrupt nipper-opening portion.

1,680,722. FISH ELEVATOR. ARTHUR A. BENNETT and CECIL H. BENNETT, Reedsport, Oreg. Filed Nov. 23, 1926. Serial No. 150,253. 5 Claims. (Cl. 61—21.)

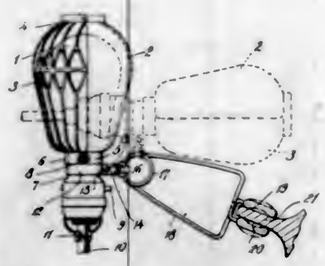


1. In a fish elevator, a vertical hollow casing adapted to receive fish therein and having an opening in the bottom portion thereof and an opening in the top portion thereof, a float-supported grate within said casing for the purpose of confining fish near the surface of the water within said casing, a gate structure associated with the upper opening, a plate associated with the opening in the bottom portion of the casing, said plate having an opening, means for raising and lowering the plate, and a gate structure associated with the opening in said plate.

1,680,723. PORTABLE GARAGE LIGHT. LOUIS BLOOM and GEORGE A. COHAN, New York, N. Y., assignors to Grip-Lite Manufacturing Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 13, 1927. Serial No. 183,279. 1 Claim. (Cl. 240—52.)

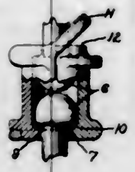
A portable lamp comprising a support provided with a spring coil adjacent one end, a clamp comprising a blank provided with a substantially centrally disposed opening and having its end portions bent to form grooves for the reception of the end portions of said coil, adjustably

mounted on said coil, a screw mounted in the opening in said clamp, a collar having a substantially U-shaped portion provided with an opening through which the screw



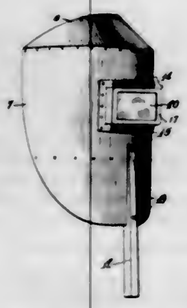
passes whereby the collar is pivotally mounted on said screw, and said collar also having a portion for yieldably engaging a lamp socket.

1,680,724. CONNECTER FOR STRAIN INSULATORS. GEORGE W. BOWER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 1, 1921. Serial No. 512,135. 2 Claims. (Cl. 287—113.)



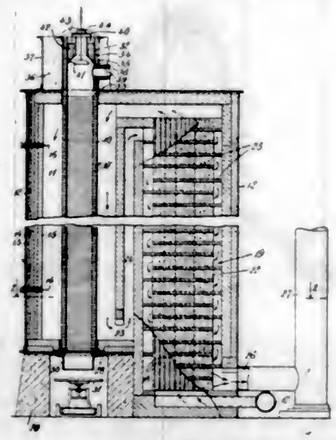
1. A connection for link insulators comprising two heated parts and a coupling consisting of two semicylindrical members, each of said members having internal shoulders for engaging said headed parts and having an attached flexible clip bendable over an end of the other member for securing said members in fixed relation to each other.

1,680,725. WELDER'S SHIELD. FREDERICK M. BOWERS, Chester, Pa. Filed Dec. 2, 1926. Serial No. 152,121. 2 Claims. (Cl. 2—11.)



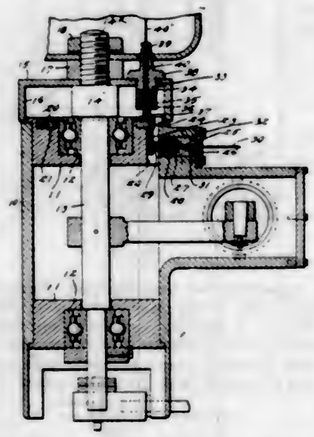
1. A welder's shield comprising a body part of arcuate outline having a sight opening therein, said body part being of a length to extend perpendicularly from the forehead to below the chin, an upper guard extending inwardly from the top of the body part to protect the head, a lower guard secured within and to the body part between the bottom thereof and the sight opening, said lower guard projecting inwardly to extend beneath the chin of the welder and act as a reinforcement to the lower portion of the body part, and a projecting handle attached to the lower portion of the body part.

1,680,726. BUILT-UP VERTICAL ZINC RETORT. FRANK G. BREYER and EARL H. BUNCE, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 5, 1927. Serial No. 172,951. 16 Claims. (Cl. 263—29.)



1. An externally heated vertical reducing chamber for the reduction of zinciferous material supported and tied in at its lower end only and built up of a multiplicity of pieces of temperature-resistant material assembled into a substantially zinc-vapor-tight chamber.

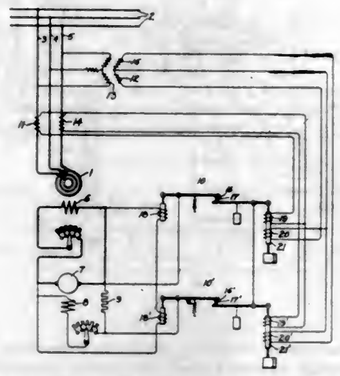
1,680,727. DIRIGIBLE HEADLIGHT. JAMES H. BURNFIEL, South Akron, Ohio. Filed Dec. 1, 1927. Serial No. 237,033. 6 Claims. (Cl. 240—61.)



1. In a headlight mounting, a tubular housing, upper and lower supports within and held against rotation with relation to the housing, a headlight supporting shaft rotatable in said supports, a cap for the casing carried by and held against rotation with relation to the shaft, an arcuate contact carried by the upper support and insulated from the casing and having a flange opposing the

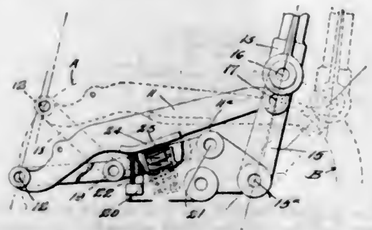
casing wall, a brush support directed through the casing wall and having a brush engaging said flange and a second brush support directed through the upper wall of the cap and having a brush engaging the arcuate contact.

1,680,728. REGULATING SYSTEM. EBERHARD COURTIN, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed June 10, 1927. Serial No. 197,981, and in Germany July 5, 1926. 8 Claims. (Cl. 171—119.)



1. In combination, a generator, an excitation circuit therefor, and means responsive to the voltage and current of said generator for varying the energization of said excitation circuit to limit the generator current during abnormal conditions of generator operation to different predetermined values of current above the normal rated value for different predetermined values of generator voltage.

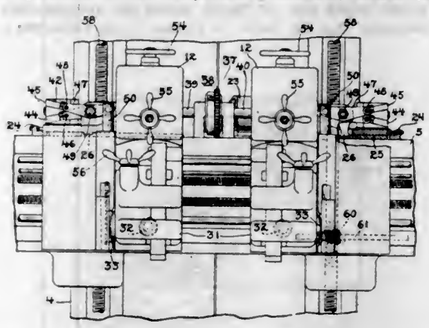
1,680,729. MECHANICAL MOVEMENT FOR PRESSING MACHINES. ERNEST DAVIS, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Oct. 16, 1925. Serial No. 62,921. 12 Claims. (Cl. 74—5.)



5. A mechanical movement comprising a frame, a lever fulcrumed on the frame, an actuator connected to one end of the lever, motion transmitting mechanism comprising a link pivoted to the frame and to the other end of the lever and means for causing the power end of the lever to have a crank like movement and cause the lever to serve as a pull link.

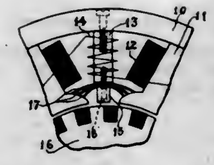
1,680,730. CONTROL SYSTEM. ROBERT C. DEALE and ROSWELL H. RAURCH, Plainfield, N. J., assignors to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 12, 1924. Serial No. 706,110. 25 Claims. (Cl. 90—52.)

1. In a control system for automatically feeding and clamping a tool support for a machine tool, the combination with a reciprocating member, a main motor for operating the reciprocating member, a cutting tool, and a feed motor for feeding and for traversing the cutting tool, of means for operating the feed motor in accordance with the operation of the reciprocating member, means com-



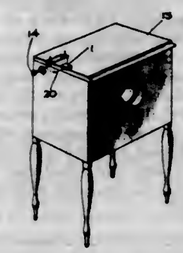
prising a motor for clamping the tool in a set position, and means for operating the clamp motor prior to each feeding movement and immediately after each feeding movement.

1,680,731. MAGNETIC SHUNT FOR DYNAMO-ELECTRIC MACHINES. ROBERT C. DEALE, Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 2, 1926. Serial No. 99,309. 7 Claims. (Cl. 171—252.)



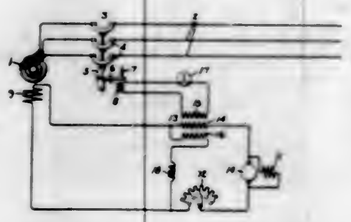
5. The combination with a dynamoelectric machine of a magnetic shunt comprising magnetic material of limited cross sectional area positioned between and adapted to engage magnetic pole pieces of opposite polarity, the cross sectional area and permeability of said material being such that it is substantially saturated by the flux due to residual magnetism in said pole pieces.

1,680,732. CONTROL APPARATUS. DONALD R. DE TAR, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 16, 1927. Serial No. 175,949. 5 Claims. (Cl. 200—54.)



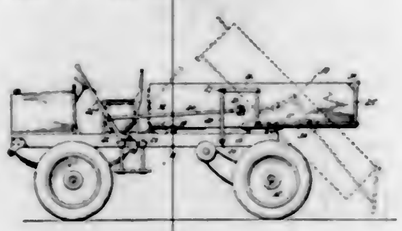
1. The combination of a cabinet comprising a removable cover, a support member mounted on said cover, an electrical switch provided with a control lever and with means tending to maintain said control lever in its open position, and means arranged to be moved between said support and said control lever for moving said lever into its closed position.

1,680,733. ELECTRICAL SYSTEM AND APPARATUS. RICHARD DIETZE, Pankow, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Jan. 13, 1927, Serial No. 160,988, and in Germany Feb. 24, 1926. 8 Claims. (Cl. 175—294.)



1. In an electrical circuit energized by composite excitation comprising a direct and an alternating current component, an inductive device connected in said circuit and having an impedance which permits both of said components of current to flow therethrough with substantially equal facility, and additional means including a winding inductively associated with said inductive device and connected across said circuit in a circuit having an impedance sufficient substantially to prevent a flow of said alternating current component while permitting said direct current component to flow substantially unimpeded therethrough for preventing magnetization of said inductive device by said direct current component.

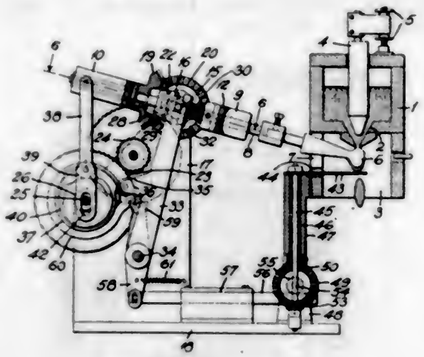
1,680,734. DUMPING TRUCK. NORMAN S. DUNAWAY, Houston, Tex. Filed Jan. 26, 1926. Serial No. 83,884. 1 Claim. (Cl. 298—22.)



In a dumping truck, the combination with a rearwardly moving tilting body and a tail gate pivoted at the upper end of the body to have an outward swinging movement at its lower end, of tail-gate operating means comprising bell-crank levers pivoted on the sides of the body at the upper ends thereof and each having a forwardly projecting horizontal member and a vertically projecting vertical member, rods connecting the lower ends of the vertical members of the bell-crank levers to the lower end of the tail-gate, and vertical links pivotally connected to the forward ends of the horizontal members of said bell-crank levers and to the chassis, whereby when the body is moved rearward on the chassis and tilted the bell-crank levers and links connecting the same to said chassis will limit the tilting movement.

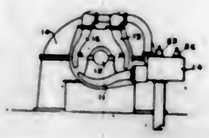
1,680,735. GLASS-FEEDING METHOD AND APPARATUS. SIDNEY S. GROTTA, Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed July 31, 1924. Serial No. 729,305. 20 Claims. (Cl. 49—55.)

1. A glass feeding apparatus comprising a container having an outlet for discharging glass downwardly, a gathering element disposed beneath said outlet in angular relation to the axial line of the outlet for supporting the glass discharged through the outlet in successive suspended masses, means for moving said implement to periodically interrupt the flow of glass from the outlet, and means for severing mold charges from said suspended masses.



16. The method of feeding glass which comprises flowing glass through an outlet from a container, intercepting the flow by a rotatable gathering element, rotating the gather, moving the said gathering element upward and in line with said outlet, thereby obstructing said outlet and interrupting the flow of glass, permitting the glass to sag from the gathering element, and shearing a mold charge from the depending mass of glass.

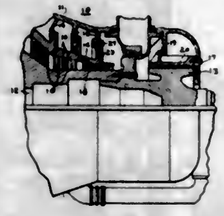
1,680,736. TURBINE VALVE MECHANISM. FRANCIS HODGKINSON and ROBERT C. ALLEN, Swarthmore, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 11, 1924. Serial No. 749,266. 19 Claims. (Cl. 137—158.)



1. In a governing device for elastic fluid motors having a primary and one or more other valves for the admission of elastic fluid thereto, the combination of speed-responsive means for closing the primary valve and for directly operating all of the valves in opening direction, a separate servo-motor controlled by said speed responsive means for closing each of the valves other than the primary valve and means for fixing the sequence in which the valves open and close.

1,680,737. ELASTIC-FLUID TURBINE. FRANCIS HODGKINSON, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 27, 1924. Serial No. 758,403. 2 Claims. (Cl. 253—69.)

1. In a turbine, the combination of a casing provided with an annular shoulder having an outwardly facing cylindrical surface and a blade-carrying element provided with an annular shoulder having an inwardly facing cylindrical surface engaging over the first cylindrical surface, said cylindrical surface each being of substantially uniform radius throughout and said shoulders being so formed that



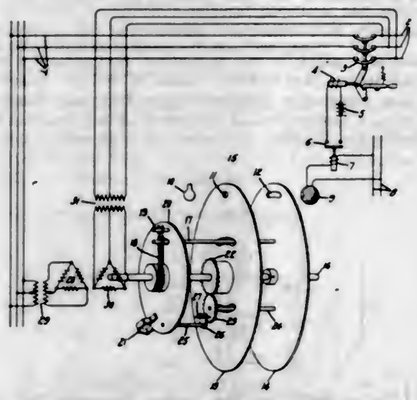
the blade carrying element may have its shoulder brought into position and removed from the casing shoulder by axial movement of the blade-carrying element.

1,680,738. SEAL FOR ELECTRIC DEVICES. ALBERT W. HULL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 23, 1926. Serial No. 130,831. 6 Claims. (Cl. 250—27.5.)



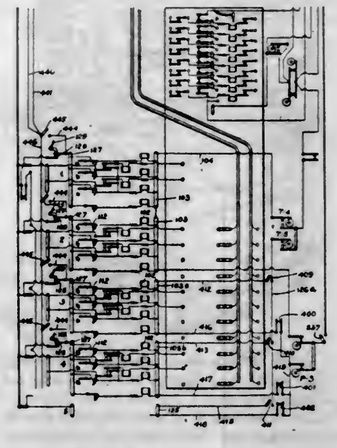
1. A gas-tight seal for electrical devices comprising a plurality of cylindrical layers of glass and a plurality of cylindrical layers of metal, the glass layers being spaced from one another by the metal layers, each layer of glass making a gas-tight joint with the adjoining metal surface.

1,680,739. SYNCHRONIZING DEVICE. LUKE F. KENNEDY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 5, 1926, Serial No. 106,995. Renewed Apr. 21, 1928. 12 Claims. (Cl. 171—118.)



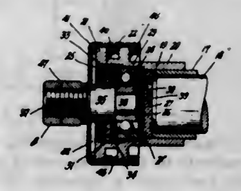
1. The combination of a plurality of alternating current circuits, means for interconnecting said circuits, and means comprising a light responsive device for causing said interconnecting means to be energized at an instant of time preceding phase coincidence in the voltages of said circuits by a time interval which is substantially constant over a predetermined range in the difference between the frequencies of said circuits.

1,680,740. PRINTING TABULATOR. CLAIR D. LAKE, Binghamton, N. Y., assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed Mar. 26, 1924. Serial No. 701,941. 19 Claims. (Cl. 235—58.)



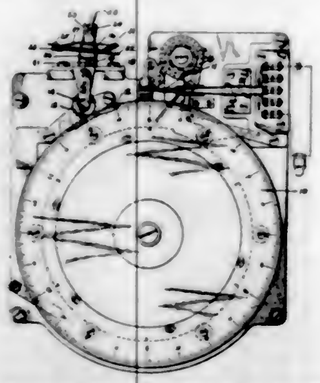
1. A tabulating machine of the printing type having in combination with provisions for preparing lists of individual items derived from perforated records and for printing the totals of said items, automatically operable means for suppressing the listing of individual items in certain columns, said means having provisions for automatically permitting the machine to print totals of the items in said columns, the listing of which has been automatically suppressed.

1,680,741. BEARING STRUCTURE FOR VACUUM-CLEANER BRUSHES AND THE LIKE. HENRY T. LANG, Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio, a Corporation of New York. Filed Feb. 8, 1927. Serial No. 166,771. 3 Claims. (Cl. 308—186.)



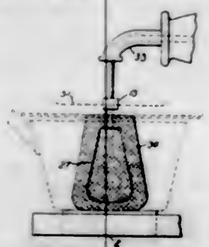
1. A bearing structure for vacuum cleaner brushes and the like, said structure comprising a tubular member having a flanged end provided with an annular groove, a cup-shaped member surrounding said flanged end in coaxial close running spaced relation thereto, said annular groove forming therewith an annular chamber, said cup-shaped member being spaced from the end of the tubular member to provide a second chamber between said end and the first chamber, a stud which extends axially into said tubular member through the second chamber and cup-shaped member, a bearing in said tubular member, said bearing having a radially inner rotatable member secured to the stud and a radially outer member seated in the tubular member, and means for securing said bearing member therein.

1,680,742. DRIVING DEVICE FOR PROGRAM CLOCKS. CLINTON E. LARRABEE, Binghamton, N. Y., assignor to International Time Recording Company of New York, Endicott, N. Y., a Corporation of New York. Filed Oct. 28, 1924. Serial No. 746,295. 2 Claims. (Cl. 74—14.)



1. In a device of the class described, in combination, a clock driving shaft, a program device, means for periodically imparting movement derived from continuous movement of the driving shaft to said program device in steps of definite magnitude, said means comprising a fixed ratchet, a member connected to drive the program device and having a pawl cooperating with said ratchet, a member driven by the clock driving shaft with provisions for controlling the coaction of the pawl and ratchet, and a spring connecting the said members and adapted to advance the first mentioned member upon the release of the pawl from the ratchet.

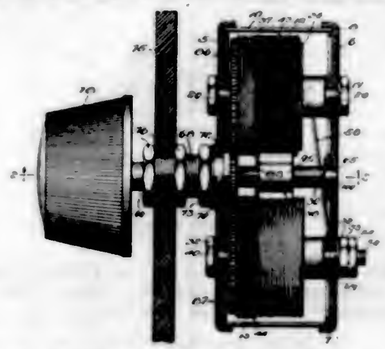
1,680,743. ELECTRIC HEATING DEVICE. FREDERIC WILLIAM LEEVERS, London, England, assignor to General Electric Company, a Corporation of New York. Filed Sept. 29, 1925, Serial No. 59,298, and in Great Britain Oct. 15, 1924. 3 Claims. (Cl. 219—41.)



2. An electric heating device comprising a tubular support, switch contacts in the lower end of said support, a plug rotatably and slidably mounted in said support, switch contacts carried by said plug arranged to engage the switch contacts in said support, an arm secured to said plug, an electric immersion heater carried on the end of said arm electrically connected to the switch contacts carried by said plug, and means for securing said plug in a raised position until it has been rotated in said support to bring its switch contacts into alignment with the contacts on said support.

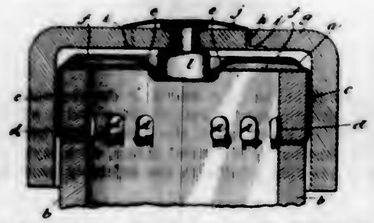
1,680,744. RHEOSTAT. ALFRED F. C. LOTZ, Chicago, Ill., assignor to Electrical Engineers Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 15, 1925. Serial No. 62,522. 5 Claims. (Cl. 201—59.)

1. In a resistance device, the combination of a drum, a contact on said drum, a resistance conductor connected to said contact and adapted for winding upon and unwinding from the drum, and means of relatively high conductivity



along the effective terminal portion of said resistance conductor for decreasing the resistance of said terminal portion beyond the normal resistance of said conductor.

1,680,745. BOX-LOCKING DEVICE. HARRY D. MORTON, New York, N. Y. Filed June 13, 1924. Serial No. 719,764. 11 Claims. (Cl. 229—47.)



1. A self-locking telescoping box, comprising a body member and a cover member, locking means projecting inwardly from the cover member and co-acting locking means attached to said body member, a portion of the latter locking means spanning two edges of the body member and extending across a portion of adjacent walls thereof and over a portion of the intervening space therebetween.

1,680,746. METHOD OF MOLDING BOTTLES IN SINGLE-MOLD MACHINES. KARL E. PEILER, Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Dec. 6, 1923. Serial No. 678,900. 5 Claims. (Cl. 49—18.)

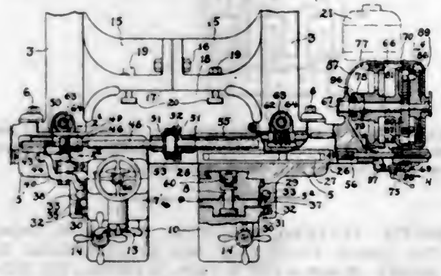


1. The process of making hollow glassware that comprises depositing a charge of molten glass in a cavity of a finish blow mold, compacting the glass in the lower end of said cavity to form the neck finish of the ware, applying blowing pressure to said charge and directing cooling air through the charge receiving end of said mold while it is open to chill the exposed portion of said mold charge.

5. The process of making hollow glassware that comprises depositing a charge of molten glass in the mold

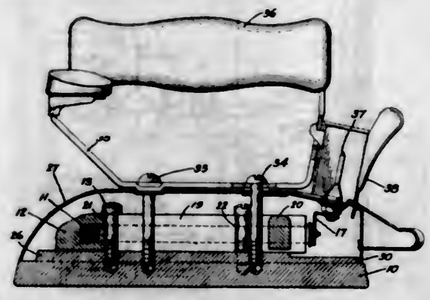
cavity of an inverted blow mold through the open bottom portion thereof, compacting the mold charge in the lower portion of said cavity by fluid pressure applied above the glass, expanding the mold charge into contact with the walls of said cavity by fluid pressure applied below the glass and simultaneously applying cooling air through the open bottom portion of said molds to chill the exposed portion of the glass during the expanding operation, moving said mold to a neck-up position, applying a bottom closure to the open end of said mold, allowing the glass to sag under the action of gravity and expanding the glass to final form in said mold.

1,680,747. TOOL FEEDING AND CLAMPING MECHANISM FOR PLANERS. CLIFFORD F. RANDOLPH, ROSWELL H. RAUSCH, and NICHOLAS MARCALUS, Plainfield, N. J., assignors to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 16, 1923. Serial No. 675,203. 33 Claims. (Cl. 90—52.)



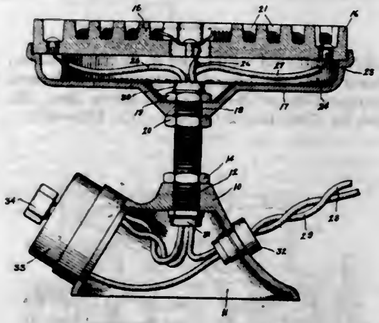
3. In a metal planing machine, the combination of a support, a member thereon, means for rigidly securing the member to the support, a feed gear operatively connected to the member, a rotary element, a motor for rotating the element alternately in opposite directions, means providing a driving connection between the feed gear and element, a cam operative to disconnect the driving connection at a predetermined point of the rotation in one direction, continued rotation of the motor operating on the first named means thereafter to secure the member to the support, rotation of the motor in the opposite direction being adapted to operate the first said means to release the member and thereafter rotate the feed gear in the opposite direction, a stop operative to stall the rotation of the feed gear and motor in the last mentioned direction, and means for adjusting the last named stop whereby to vary the amount of rotation imparted to the feed gear.

1,680,748. ELECTRICALLY-HEATED DEVICE. JACOB L. SHROYER, Oak Park, Ill., assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill., a Corporation of New York. Filed Sept. 28, 1925. Serial No. 58,972. 9 Claims. (Cl. 219—25.)



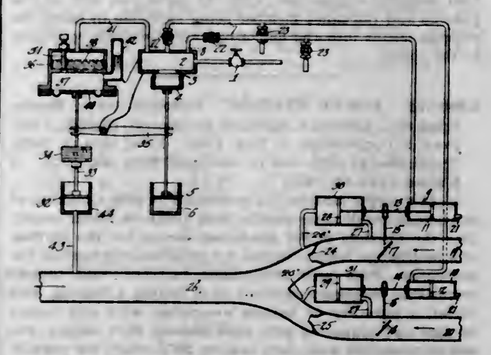
5. An electric flatiron comprising a sole plate, an encased heating unit having substantially the same shape as said sole plate, a metallic member in which said unit is cast providing a zone of thick metal surrounding said unit, and means for securing said member to said sole plate in good heat conducting relation therewith.

1,680,749. ELECTRIC HEATER. JACOB L. SHROYER, Oak Park, Ill., assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill., a Corporation of New York. Filed Dec. 22, 1925. Serial No. 77,102. 1 Claim. (Cl. 219—37.)



An electric heater comprising a hollow base provided with central and side apertures, a tubular member threaded in said central aperture so as to be vertically adjustable relatively to said hollow base, a circular supporting member provided with a peripheral upwardly turned flange and a central aperture, said tubular member being threaded to said circular supporting member in said aperture, a lock nut threaded on said tubular member for engagement with said circular supporting member, a disk-shaped heat refractory support resting on said flange in spaced relation with said supporting member, a heating resistance conductor mounted on said heat refractory support, connecting leads extending through a side aperture in said base upward through said tubular support and through the space between said heat refractory support and said supporting member to said resistance conductor and a switch for said heating conductor mounted on said base member and included in said leads.

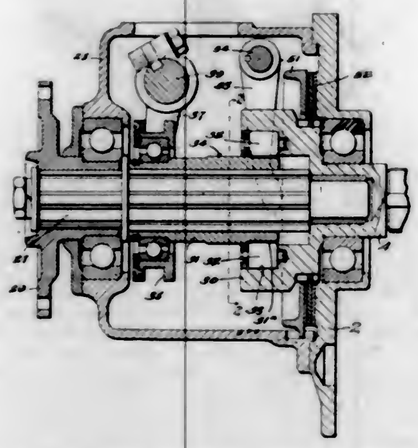
1,680,750. REGULATOR. CHARLES H. SMOOT, Maplewood, N. J. Filed Oct. 22, 1926. Serial No. 143,414. 9 Claims. (Cl. 137—78.)



1. In a regulator, the combination with apparatus to be controlled for variable quantities with set requirements, a master controller adapted to respond to said requirements, local control means for regulating different elements of supply, separate means leading from the master controller

to each of the local controls whereby the master controller causes the local controls to respond to the requirements according to set ratios, each local control being checked in its response to the set requirements by counteracting means responsive to the element being so controlled, and compensator mechanism connected to the master controller whereby the master controller upon each change of requirement makes a corresponding initial change in the setting of the several local controls to meet the change in requirement and after a prescribed time allows the said setting of the local controls to become normal for the new requirements.

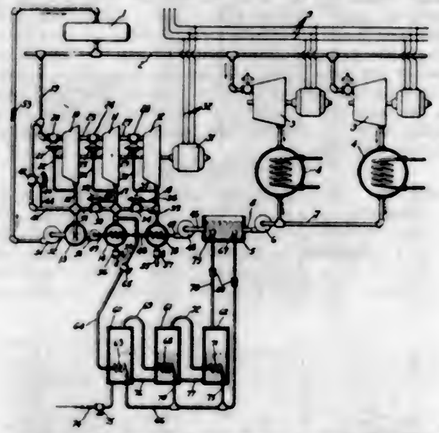
1,680,751. CLUTCH. CHARLES B. SPARE, Syracuse, N. Y., assignor to Brown-Lipe Gear Company, Syracuse, N. Y., a Corporation of New York. Filed Nov. 19, 1924. Serial No. 750,945. 2 Claims. (Cl. 192—38.)



1. A transmission mechanism comprising shafts arranged in axial alinement, one of which drives the other, a clutch between the shafts including wedging means arranged to come into positive engagement gradually, said wedging means including outer and inner elements, the outer element having a radially extending passage, a roller in the passage and the inner element having a cam for gradually moving the roller radially in the passage into final wedging engagement with the outer end wall of the passage and the inner member being shiftable to carry the wedging means into and out of operative position relatively to the roller.

1,680,752. POWER STATION. THEODOR STEIN, Berlin-Friedenau, Germany, assignor to General Electric Company, a Corporation of New York. Filed Mar. 5, 1925, Serial No. 13,409, and in Germany Mar. 22, 1924. 3 Claims. (Cl. 60—95.)

1. In a power station, the combination with a number of multistage condensing elastic fluid turbines which constitute the primary power producing means for the station, of a multistage heater turbine for progressively heating the condensate from said first-named turbines, said turbine comprising successive sections each having a heating fluid outlet, a plurality of heaters associated with said heater turbine and connected with said heating fluid outlets, and means connected with each heating fluid outlet for regulating each heater turbine section in accordance with the demand for heating fluid therefrom, said means comprising a conduit interposed between each section, a supply conduit for the initial section, a regulating valve in each of said conduits and in the supply conduit, and a regulator responsive to a condition of the heating fluid connected with each of said valves to operate the same, whereby each section is controlled by a separate regulator, each regulator being connected with the heating fluid outlet of the



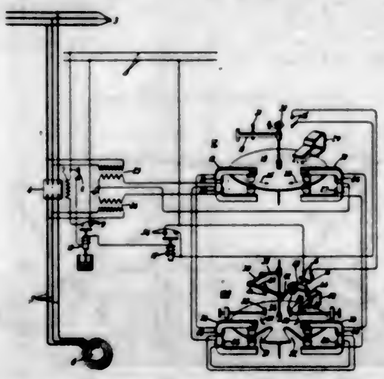
section which it controls whereby the control of said section is effected thereby in response to changes in the condition of the heating fluid from said section.

1,680,753. PLAYGROUND CHUTE. RICHARD W. THORNTON, Denver, Colo. Filed July 19, 1926, Serial No. 123,393. Renewed June 9, 1928. 3 Claims. (Cl. 272—56.5.)



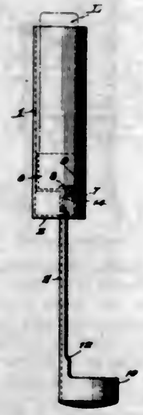
1. In an article of the class described, a chute having a flat bottom and parallel sides extending vertically therefrom, the sides having their upper edges formed into cylindrical rolls whose axes lie in the plane of the sides.

1,680,754. SYNCHRONIZING DEVICE. OLIVER C. TRAVER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 24, 1926, Serial No. 150,606. Renewed Apr. 21, 1928. 7 Claims. (Cl. 171—118.)



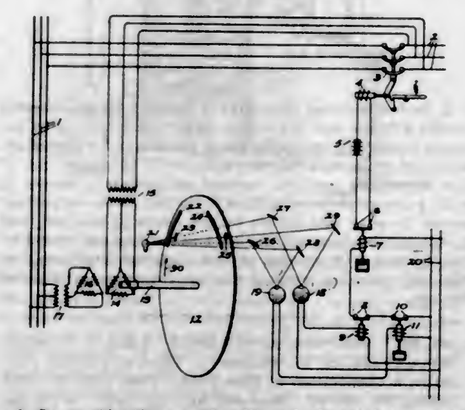
1. In combination, two alternating current circuits, switching means for connecting the circuits, and means connected to be energized in accordance with the difference between the effects of the sum of and the difference between the electromotive forces of the circuits for starting the closing operation of the switching means only at a definite predetermined phase difference of the electromotive forces when the difference between the frequencies of the electromotive forces is less than a predetermined value.

1,680,755. LIP-STICK HOLDER. RALPH W. WILSON, New York, N. Y., assignor to Theodore W. Foster & Brother Company, Providence, R. I. Filed Dec. 24, 1926. Serial No. 156,917. 2 Claims. (Cl. 206—56.)



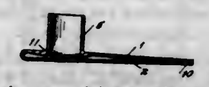
2. In a lip stick holder, a tubular body having a closed bottom formed with a slot which latter extends through a side of the holder, a lip stick carrier slidable in the body, a loop extending through an opening provided therefor in the bottom of the carrier and having one leg secured to said bottom and its other leg extending upwardly to engage and hold the lip stick, a closure slidable on the body and having an arm formed to engage a side of the body, said arm being movable through said slot and having an offset perforated to receive the loop whereby to hingedly connect the arm to the carrier.

1,680,756. SYNCHRONIZING DEVICE. FRED H. WINTER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 26, 1926, Serial No. 150,869. Renewed Apr. 21, 1928. 14 Claims. (Cl. 171—118.)



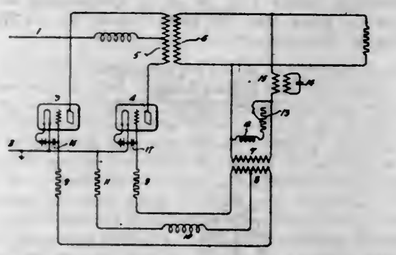
1. In combination, a plurality of alternating current circuits, means for connecting said circuits and means comprising a light responsive device for starting the closing operation of the connecting means at a predetermined phase difference of the electromotive forces of the circuits when the difference between the frequencies of the electromotive forces is less than a predetermined value for a predetermined time.

1,680,757. FLUTTER VALVE. MAX YABLICK, Newark, N. J., assignor to Mine Safety Appliance Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 3, 1924. Serial No. 747,437. 6 Claims. (Cl. 251—122.)



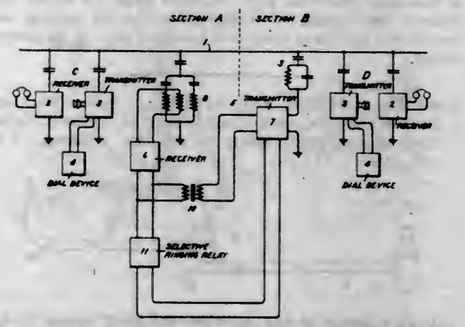
1. A flutter valve comprising a pair of walls, one of said walls including a vibrating, sound-intensifying portion and the other wall being provided with a neck at an angle thereto and the base of said neck being adapted to engage with the first-named wall to form a valve-closing mechanism and means at the base of said neck for guarding the wall having the sound-intensifying portion against excessive inward indention by suction.

1,680,758. SYSTEM OF DISTRIBUTION. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 11, 1925. Serial No. 8,571. 5 Claims. (Cl. 175—363.)



1. The combination in a system of electrical distribution of a source of direct current, a winding connected to said source through an electric valve, a consumption circuit associated with said winding, and means comprising a reactance saturable in response to a predetermined condition of said circuit and connected between said valve and said circuit for controlling the action of said valve to supply current impulses to said winding.

1,680,759. CARRIER-CURRENT SYSTEM. EDWARD AUSTIN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 2, 1925. Serial No. 27,604. 4 Claims. (Cl. 179—15.)



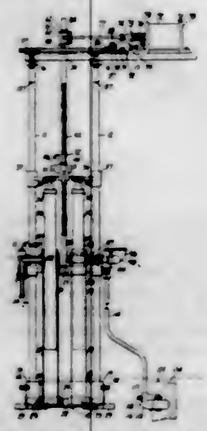
1. In a system for carrier current communication or the like, a plurality of remote stations, a transmitter at each station for supplying a certain frequency to the system, a

receiver at each station responsive to another frequency, a main receiver connected to the system at a point between said stations and which is responsive to the frequency of said transmitters, a main transmitter connected to the system at a point between said stations to supply to the remote receivers said other frequency, a plurality of connections between said main receiver and said main transmitter whereby the operation of said main transmitter may be controlled from any remote station, one of said connections including a selective ringing circuit, and means at each remote station for initiating the operation of the main transmitter and controlling the ringing circuit.

1,680,760. PROCESS FOR THE PREPARATION OF ETHYLIDENE DIACETATE. MAURICE ERNEST BOUVIER and LUCIEN HUGONIOT, Lyon, France, assignors to Societe Chimique des Usines du Rhone, Paris, France. Filed Aug. 18, 1925, Serial No. 51,038, and in France June 13, 1925. 5 Claims. (Cl. 260—106.)

1. A process of preparing ethylidene diacetate by absorption of acetylene in acetic acid in the presence of a mercury salt, which consists in carrying out the reaction at a temperature below the boiling point of the liquid in the presence of a strong acid and of acetic anhydride in such quantity that, when the absorption is completed, there still remains some acetic anhydride in the liquid.

1,680,761. LUBRICATING MECHANISM. THOMAS BRADY, East Orange, N. J., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 20, 1925. Serial No. 31,574. 3 Claims. (Cl. 184—21.)



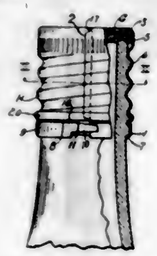
1. A lubricating device comprising, a plurality of lubricant reservoirs open to the atmosphere at their upper ends, a lubricant outlet in each reservoir near the upper end thereof, and volumetric displacing means for causing the overflow of lubricant from each reservoir into its respective outlet.

1,680,762. DOUCHE AND SYRINGE. JAMES WILLIAM BUTLER and LAWRENCE WILLIAM BUTLER, Burbank, Calif. Filed May 11, 1927. Serial No. 190,530. 4 Claims. (Cl. 128—248.)



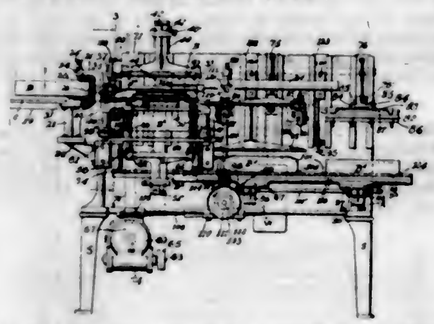
1. In a device of the character disclosed, means of attachment with a source of liquid supply, means adapted to hold a medicated liquid, means of communcation between the first and second named means whereby liquid received in the first named means is directed to the second named means, and movable means in said second named means adapted to be acted upon by the liquid from the source of liquid supply to thereby cause flow of any medicated liquid within said second named means.

1,680,763. RECEPTACLE CLOSURE. LESLIE R. N. CARVALHO, Toledo, Ohio, assignor to The Closure Service Company, Toledo, Ohio, a Corporation of Ohio. Original application filed Oct. 29, 1921, Serial No. 511,392. Divided and this application filed June 30, 1924. Serial No. 723,146. 3 Claims. (Cl. 215—43.)



1. A receptacle closure comprising a cover part and a one-piece screw threaded skirt part, the skirt part having a side seam therein, the lower portion of the skirt part being adapted to be bent inwardly to constitute a holding means to retain the closure in sealing position upon a receptacle, and said skirt part having a vertical slit extending upwardly from the bottom edge thereof and having a finger grip continuing from one wall of said slit by which to tear off the lower portion of the skirt part, said wall of the skirt part being spaced from the seam for the purpose set forth.

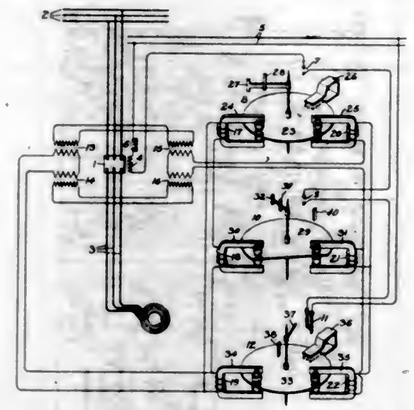
1,680,764. BOX-COVERING APPARATUS. ROBERT G. CLARK, Brooklyn, N. Y. Filed Nov. 16, 1926. Serial No. 148,658. 65 Claims. (Cl. 93—54.)



1. In box covering apparatus, a support for an adhesive coated wrapper and box one in register one relative to the other, supporting means to which the box and wrapper are delivered from said support adapted to be moved out of box supporting position, vertical reciprocatory means to exert a downward moving force to the box on the supporting means to move said means to box releasing position, and means relative to which the box and wrapper are moved by the downward movement of said reciprocatory means to fold and press the wrapper against the sides and ends of the box.

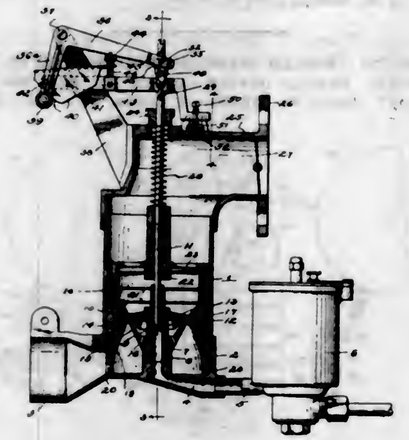
1,680,765. CONTROL APPARATUS. AMOS C. CONNELL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 23, 1926, Serial No. 90,082. Renewed Apr. 21, 1928. 9 Claims. (Cl. 171—118.)

1. The combination of two alternating currents systems, and means for controlling the interconnection of said systems comprising a control circuit, a relay operable to complete a connection of said circuit only when the difference between the phases of said systems does ot exceed predetermined limits which include phase coincidence, a relay



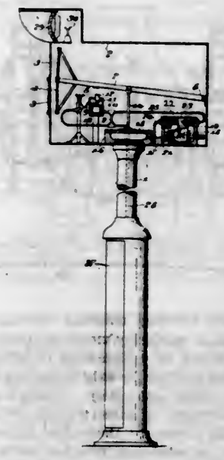
operable to complete said circuit within said limits and at a time preceding phase coincidence, and a relay operable within said range to interrupt said circuit prior to said time when the difference between the system frequencies is less than a predetermined value.

1,680,766. CARBURETOR. JOHN W. COTTINGHAM, Columbus, Ohio. Filed June 26, 1925. Serial No. 39,706. 2 Claims. (Cl. 261—44.)



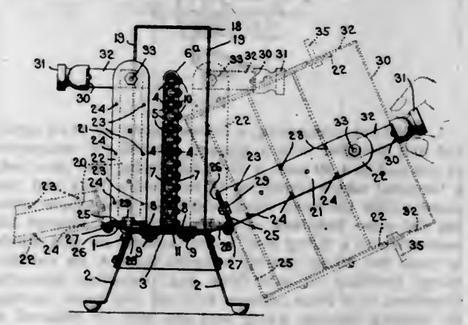
1. In a carburetor for an internal combustion engine, a casing, a fuel inlet nozzle within said casing and including an annular atomizing head, a stem for controlling fuel flow through said nozzle, a piston responsive to engine suction movably mounted within said casing, an operating member movable in unison with said piston, a bell crank lever journaled exteriorly of said casing and connected with said operating member, a fulcrum lever for raising and lowering said stem, said lever including a cam surface, and means provided in connection with said bell crank lever cooperative with said cam surface to rock said fulcrum arm and effect thereby changes in the operating position of said valve stem.

1,680,767. RAILWAY-CROSSING SIGNAL. GUSTAF DALÉN, Stockholm, Sweden, assignor to American Gas-accumulator Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Oct. 11, 1922, Serial No. 593,697, and in Sweden Oct. 14, 1921. 4 Claims. (Cl. 246—130.)



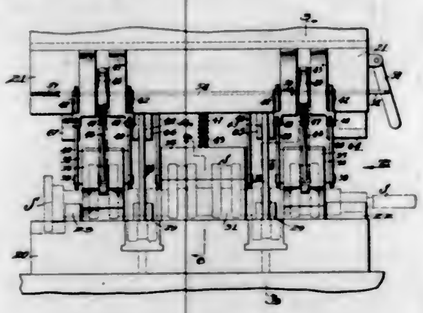
4. A railway crossing signal device, comprising, in combination, signal discs, an oscillatable lever for supporting said discs, a gas burner located behind the said discs, a conduit having a passageway through which gas is adapted to be supplied to the said burner, a casing one side of which is closed by a movable diaphragm the movements of which are adapted to be caused by variations of gas pressure within the said casing, an electrically controlled valve for controlling the flow of gas from the passageway in said conduit into said casing, a valve for controlling the flow of gas through said conduit, means for normally holding the said last mentioned valve in closed position, a connection between the said diaphragm and the said oscillatable lever whereby the variations of the gas pressure in the said casing cause oscillatory movements of the said lever, and means whereby the said movements effect opening and closing movements of the second named valve.

1,680,768. ELECTRIC TOASTER. WILLIAM H. DALTON, Salem Mass. Filed July 1, 1924. Serial No. 723,486 4 Claims. (Cl. 53—5.)



1. In a toaster, the combination with a frame, of a heating element thereon, a swinging support mounted on the frame and a bread-holding element swivelled to said support to turn about an axis that is situated at right angles to the axis of the swinging support.

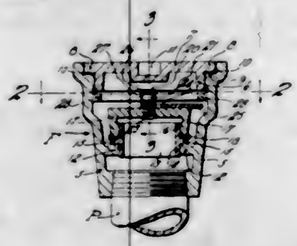
1,680,769. CRANK-SHAFT-TWISTING MACHINE. MARK H. DAMERELL, Worcester, Mass., assignor to Wyman-Gordon Company, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 10, 1926. Serial No. 93,741. 32 Claims. (Cl. 29—6.)



19. A crankshaft twisting machine having, in combination, a twisting die, a vertically movable actuating member, and a retaining device by which said twisting die is normally held in raised position by said actuating member, said retaining device being manually releasable before the crank twisting movement of said twisting die by said actuating member, and means to thereafter automatically restone said device to retaining relation with said die before the return movement of said actuating member.

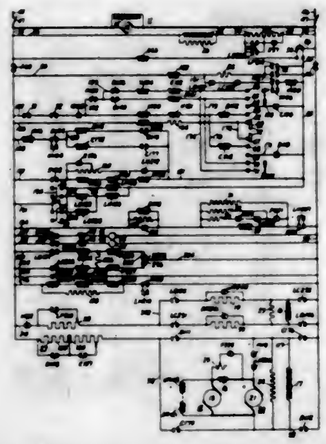
23. A crankshaft twisting machine having, in combination, means to hold a flat forged crankshaft with the cranks disposed substantially in a vertical plane, an actuating head, and an upper twisting die connected by a yielding compressible link and by a lost-motion positive link to said head, said twisting die receiving a twisting movement through said links as said head descends.

1,680,770. FILL BOX. JOHN B. DAVIS, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a Corporation of Massachusetts. Filed Jan. 17, 1927. Serial No. 161,632. 2 Claims. (Cl. 220—86.)



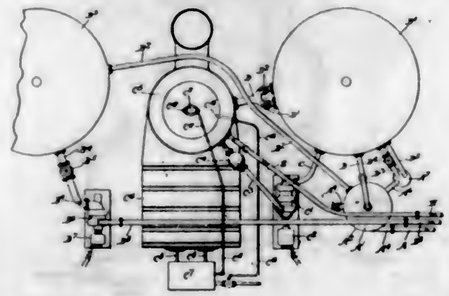
1. A fill box, comprising, a hollow body open at its upper end and provided with a passage adapted for connection at one end to a fill pipe, a cover for closing said open end, a threaded nipple connected to the hollow body and disposed within the same below said cover, said nipple forming the other terminus of said passage and adapted for connection to a filling hose, a cap threaded on said nipple to close the filling opening afforded thereby, an annular flange provided on said body and projecting inwardly therefrom in a plane between said cap and cover, leaving an opening through which said cap may be removed, a locking member slidably mounted on said cap and adapted to be projected outwardly beyond the periphery thereof into underlying relation with said flange to prevent the cap from being lifted through said opening, and means whereby said member may be locked to said cap in its projected position.

1,680,771. CONTROL SYSTEM FOR ELEVATORS. LEE I. DAVIS, New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 9, 1926. Serial No. 93,451. 21 Claims. (Cl. 172—152.)



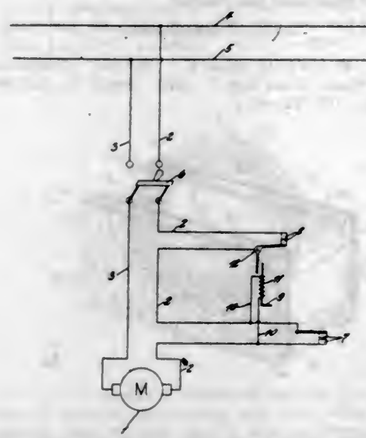
1. In combination; an elevator car; a hoisting motor therefor; a generator for supplying current to said motor, said generator having a field winding; means for causing said motor to level the car with a desired landing in stopping, regardless of whether it underruns or overruns the landing; and means for causing the application of less voltage to said field winding upon the operation of the first named means to cause the motor to bring the car to the landing upon an underrun than upon the operation of the first named means to cause the motor to return the car to the landing after an overrun.

1,680,772. BOILER WASHING AND REFILLING DEVICE. MURILLO DOWNER, Chicago, Ill. Filed Mar. 19, 1927. Serial No. 176,684. 7 Claims. (Cl. 122—396.)



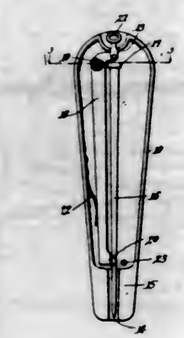
1. In locomotive handling equipment, a blow-off and refill plant which includes an inlet connection adapted to be connected to a locomotive boiler, a separating means associated with said inlet connection adapted to separate impurities from the inflowing steam and water, a refill receptacle, means for directing thereto the inflowing steam from the separating means, a boiler, a water line from the refill tank to the boiler, a refill line extending from said boiler to the point of use, a return line from the boiler to the refill tank and a thermostatically operated valve associated therewith and adapted to permit flow from the boiler to the refill tank when the boiler water reaches a predetermined temperature.

1,680,773. POWER CIRCUIT FOR ELECTRIC MACHINES. VIRGIL E. DUEMLER, Maplewood, and GEORGE R. KOELN, St. Louis, Mo., assignors, by mesne assignments, to Electrol, Inc. of Missouri, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 19, 1925. Serial No. 3,405. 4 Claims. (Cl. 171—97.)



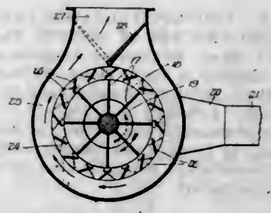
1. The combination with an electric machine, of a power circuit therefor, an automatic primary switch for said circuit, a secondary switch movable manually to closed and automatically to open position, a shunt circuit connected across the automatic primary switch, said shunt circuit including a resistance element, and a thermostatic element in association with the resistance element for opening said secondary switch.

1,680,774. ICE PICK. JAMES NOBLE EDELIN, Washington, D. C. Filed Apr. 14, 1926. Serial No. 102,029. 9 Claims. (Cl. 83—62.)



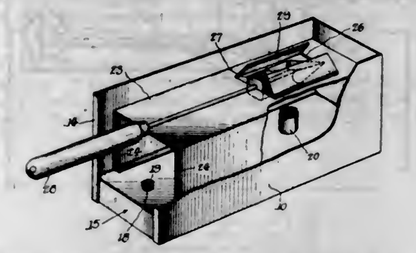
1. An ice pick comprising a hollow handle member closed along its sides and provided with openings in its opposite ends, a protractile pick member freely slidable within said handle member and adapted to be projected from the handle member ready for use or retracted within the handle when not in use, a pivotally mounted lever housed within said handle portion and having an operating portion extending through the upper end of the handle member, and spring means engaging said lever for yieldingly urging it against said pick member to hold it in retracted position.

1,680,775. REVERSIBLE BLOWER APPARATUS. PAUL FABER, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed May 31, 1927, Serial No. 195,266, and in Germany June 9, 1926. 10 Claims. (Cl. 230—116.)



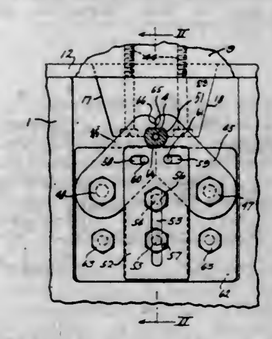
1. Blower apparatus comprising the combination with a reversible prime mover, of a reversible rotary blower, and means for varying the entry direction of air to the blower.

1,680,776. SOLDERING FURNACE. ERNEST DAVID FAHLBERG, Madison, Wis., assignor to E. D. Fahlberg Mfg. Company, Madison, Wis., a Corporation of Wisconsin. Filed Sept. 29, 1924, Serial No. 740,462. Renewed Jan. 21, 1928. 8 Claims. (Cl. 126—239.)



3. A soldering furnace having, in combination, a body in the form of a box, a fuel container forming the bottom of said box, a burner on said container, a removable tool holder and burner hood in said box, and means for closing said box.

1,680,777. VALVE-STEM-LOCKING MEANS FOR INNER-TUBE MOLDS AND THE LIKE. WALTER L. FAIRCHILD, New York, N. Y. Filed May 10, 1926. Serial No. 107,902. 3 Claims. (Cl. 18—43.)



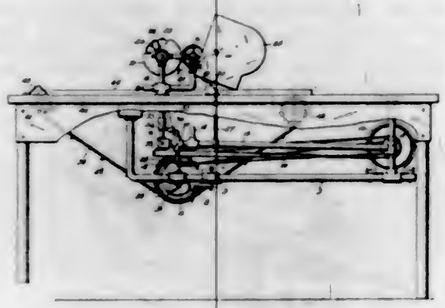
1. Apparatus of the character described comprising, a plurality of mold sections adapted when placed in mating relation to form an annular vulcanizing chamber fitted to

receive a tube to be vulcanized, a recess formed in one of said sections and having a cavity fashioned to receive a valve stem of said tube, a locking block adapted to fit into said recess for locking the valve stem in the cavity, and means for ensuring the proper seating of the valve stem in said cavity.

1,680,778. PRODUCT VALUABLE AS DISPERSING AGENT AND PROCESS OF MAKING SAME. FRIEDRICH FELIX, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Filed May 23, 1927, Serial No. 193,738, and in Switzerland May 29, 1926. 4 Claims. (Cl. 260—2.)

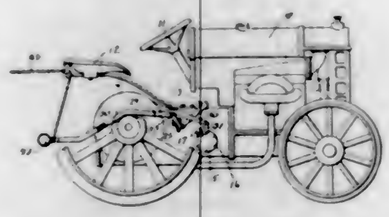
1. The herein described process for the manufacture of a new product, by treating the resinous residue, which is obtained as by-product at the rectification of benzaldehyde, with sulfonating agents.

1,680,779. BREAD-SPLITTING MACHINE. JOHN C. FREEMAN, Jeffersonville, Ind. Filed Jan. 25, 1926. Serial No. 83,552. 18 Claims. (Cl. 107—8.)



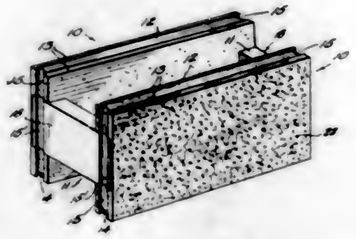
1. In a bread splitting machine, means for making an incision, conveyor means traveling in the direction of the incision-making means, means for automatically raising and lowering the incision-making means at predetermined intervals, lock means for preventing the lowering of the incision-making means at inopportune times, said lock means being set in the path of the object carried on the conveyor and adapted by contact with the latter to be automatically released.

1,680,780. LEVER ATTACHMENT FOR REMOTE CLUTCH CONTROLS. DAYTON H. GILSON, Rushville, Ind. Filed Apr. 12, 1923. Serial No. 631,569. 8 Claims. (Cl. 180—77.)



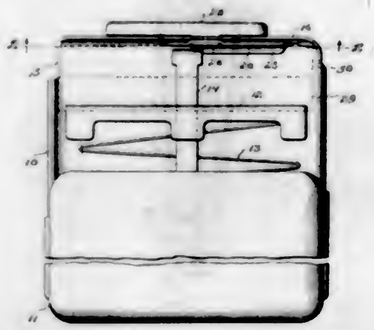
1. The combination of a tractor having a clutch operating foot pedal lever swingingly supported, a bar construction pivotally supported by said lever and having an end normally positioned above the swinging support of the lever when the clutch lever is in its uppermost position, a link pivotally connected to said bar construction intermediate the ends thereof and pivotally supported by the tractor beneath the swinging support of the clutch lever, said link being relatively movable towards and away from the foot pedal portion of the clutch lever in the swinging movement of the clutch lever, and a single control line connected to the bar construction for starting and stopping the tractor through uni-directional pull thereof.

1,680,781. BUILDING BLOCK. SEVERIN GANGMARK, Seattle, Wash. Filed Aug. 7, 1926. Serial No. 127,790. 6 Claims. (Cl. 72—44.)



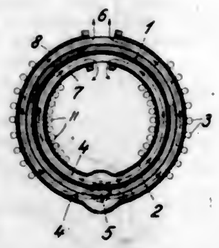
1. A building-block comprising two spaced apart concrete slab sections, wooden bridge plates having their ends embedded in the respective sections to receive fastenings for securing the adjacent blocks of a course thereof together, the outer surface of a plate being in a plane with the outer extremity of the slab sections at each end of the block, grooves provided in the ends of the slab sections and extending across the respective plates, and tongues and grooves provided along the upper and lower longitudinal edges of the respective slabs.

1,680,782. CIGARETTE CASE. ERNEST GREGORY, New Haven, Conn., assignor to The Lyons Manufacturing Company, Hamden, Conn., a Corporation of Connecticut. Filed May 12, 1927. Serial No. 190,848. 5 Claims. (Cl. 206—41.)



4. In combination with a cigarette case having one wall with a slot therethrough; an ejector mechanism, comprising an ejector plate having a side wall that terminates at one end in a finger and a plurality of offset portions at one side thereof, and a foot portion that projects laterally from the bottom of the side wall in a direction opposite to the offset portions, a pressure case upon that side of the wall opposite to the ejector plate having inwardly turned portions that project through the said slot and terminate in wing portions within one of said offset portions; and a spring within the pressure case having contact at one end with a portion of said wall.

1,680,783. HIGH-FREQUENCY APPARATUS. FRITZ GUTZMANN, Charlottenburg, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Filed Aug. 26, 1926, Serial No. 131,576, and in Germany Sept. 19, 1925. 3 Claims. (Cl. 175—356.)

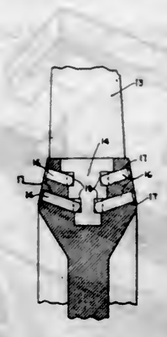


1. In high frequency apparatus, an iron core, a cooling chamber spacedly surrounding said core, influx and efflux ports in said chamber, and a winding surrounding said chamber.

1,680,784. CONTROL SYSTEM FOR ELEVATORS. HERBERT L. HEART, New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 9, 1926. Serial No. 93,453. 13 Claims. (Cl. 172—152.)

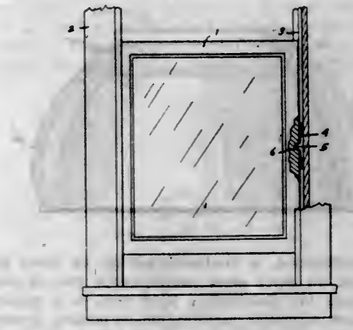
1. In combination, an elevator car, a hoisting motor therefor, a generator for supplying current to the motor, means for causing the motor to bring the car to a level with a desired landing in stopping, regardless of whether it underruns or overruns said landing, and means controlled by the first named means for establishing a field strength for the generator of less value for the operation of returning the car to said landing after an overrun than for the operation of bringing the car to said landing upon an underrun.

1,680,785. TURBINE. HERBERT T. HERR, Merion, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 15, 1927. Serial No. 240,236. 2 Claims. (Cl. 253—77.)



1. In an apparatus of the type described, the combination with a rotor having a circumferential groove for retaining the blading therein, said groove having an enlarged portion to permit the blades to be inserted and removed, of a blade root having recesses therein and inserted in the enlarged portion of said groove and pins having their inner ends disposed against the recessed portions of the blade root, said pins being compressed in said rotor.

1,680,786. WINDOW-SASH HOLDER. LUTHER H. HOOD and JACOB J. CULWELL, Houston, Tex. Filed Nov. 22, 1924. Serial No. 751,646. 2 Claims. (Cl. 292—76.)

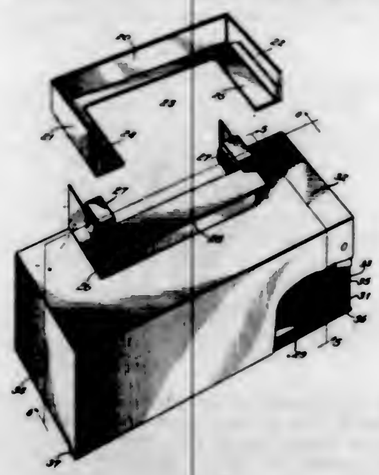


1. A sash holder formed of a strip of flexible material substantially arcuate in contour and whose ends are free and curved slightly outwardly, or reversely with respect to the general arcuate contour of the holder thus forming end bearing faces, said holder having a central transverse crease forming a projection on the side of the holder opposite from said faces.

1,680,787. UNIVERSAL ADAPTER. BRYSON D. HORTON, Detroit, Mich., assignor to Square D Company, Detroit, Mich., a Corporation of Michigan. Filed May 20, 1927. Serial No. 193,043. 12 Claims. (Cl. 247—2.)

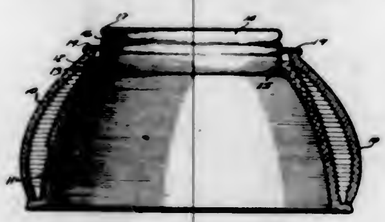
1. In combination with switch boxes having openings in the ends thereof, the opening in one box being formed by the omission of substantially the entire wall and the open-

ing in the other box being formed by cutting away but a portion of said end wall, there being adapter devices associable with each of said boxes, convertible hood means for



so altering the openings in the ends of said boxes that an adapter intended for said first box may be associated with said second defined box and vice versa.

1,680,788. METAL COLLAR FOR LUMINAIRES. WILLIAM A. INGLER, Newark, Ohio, assignor, by mesne assignments, to Holophane Company, Inc., New York, N. Y., a Corporation of New York. Filed July 24, 1926. Serial No. 124,632. 8 Claims. (Cl. 240—128.)



1. In combination, a luminaire having an inner glass envelope and an outer glass envelope, the two envelopes having prisms for distributing light rays in a predetermined manner, a tubular metallic support passing upwardly through the luminaire, the upper end of the support being threaded and the lower end having a flange for engaging the lower surface of the inner glass envelope, a disk carried outside the support, screw threaded means cooperative with the support for forcing the disk against the top of the outer envelope, and means for insuring a predetermined alignment of the glass envelopes.

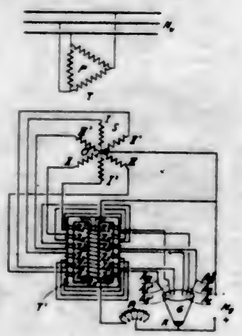
1,680,789. WRENCH. HERMAN W. JACOBSON, Fonda, Iowa, assignor of one-third to Francis M. Tice, Fonda, Iowa. Filed Dec. 1, 1926. Serial No. 151,982. 2 Claims. (Cl. 81—124.1.)

1. In a wrench of the class described, a body including a shank provided with a longitudinal bore extending therethrough, one end of the shank being provided with a removable socket, a plunger including a rigid stem extending through and beyond said bore, one end extending into said socket and being screw threaded, a washer carried by said screw threaded stem, a head on the opposite end of the stem, a spring disposed around said plunger and bearing at one end against the head, and at its opposite end against



the adjacent portion of the shank, and a removable collar for disposition on the stem between the washer and the adjacent extremity of the shank.

1,680,790. SYSTEM FOR REGULATING THE DIRECT-CURRENT VOLTAGE IN METAL-VAPOR-RECTIFIER INSTALLATIONS. JULIUS JONAS, Meierhof, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Filed Oct. 8, 1920, Serial No. 415,672, and in Switzerland Oct. 14, 1919. 18 Claims. (Cl. 175—363.)

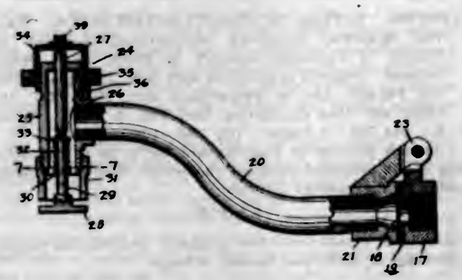


1. In a rectifier system, a plurality of parallel rectifying paths, each path comprising a transformer winding and a serially connected rectifying element, common positive and negative terminals for said rectifier paths, said transformer windings constituting a polyphase alternating-current system supplying currents of different phases to said paths, means for interlinking the currents in said rectifying paths to cause overlapping of the currents rectified in the individual phases, and means for controlling the degree of interlinkage to vary the extent of the overlapping.

1,680,791. PROCESS FOR PRODUCING FAST DYEINGS ON THE FIBER. THEODOR KIRCHEISEN, Dessau in Anhalt, and JOHANNES GÜTLER, Offenbach-on-the-Main, Germany, assignors, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 21, 1927, Serial No. 162,673, and in Germany Jan. 23, 1926. 6 Claims. (Cl. 8—5.)

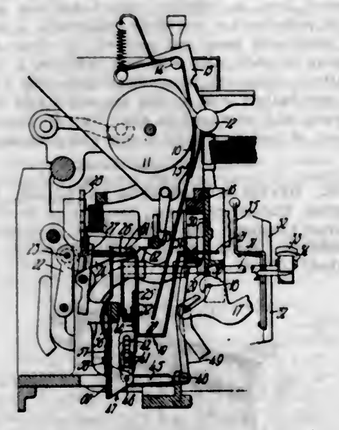
1. A process for producing fast dyeings on the fiber which consists in diazotizing a diazotizable amine on the fiber in presence of a compound to be coupled.

1,680,792. COFFEE URN. ANTHONY KLEINLERCHER, Brooklyn, N. Y., assignor to Aaron M. Sloss, New York, N. Y. Filed Jan. 13, 1927. Serial No. 160,868. 7 Claims. (Cl. 53—3.)



1. In a coffee urn, a body containing an infusion receptacle at the top of which the ground coffee is held, means for supplying liquid to the top of the body, a distributer head in the top of the body supplied by said means, and a member in connection with said distributer operable to cause the delivery of either a velocity spray laterally for cleansing or a distributed fall of liquid upon the coffee.

1,680,793. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed July 21, 1925. Serial No. 44,996. 7 Claims. (Cl. 197—135.)



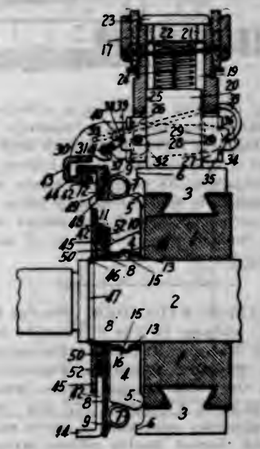
4. In a typewriting machine, the combination with a platen and a universal bar, of a universal bar frame fastened to said bar and arranged with a U-shaped pocket to the rear of said bar for receiving a lower free portion of a card fed downwardly in front of said platen, said pocket having a width, front to rear, exceeding the distance moved by said universal bar, and means outside of said pocket for maintaining said card with its lower portion extending freely in said pocket so that the card will remain stationary upon vibration of said pocket.

1,680,794. AUXILIARY CHAIR FOR VEHICLES ARDIS C. LAWLER, Ardmore, Okla. Filed Jan. 17, 1927. Serial No. 161,606. 2 Claims. (Cl. 155—10.)



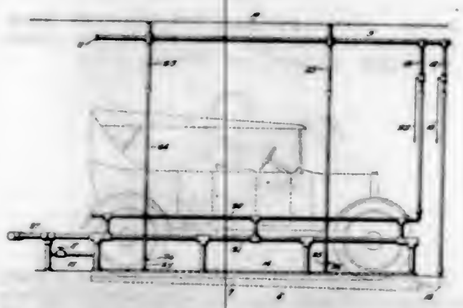
1. An auxiliary chair for vehicles comprising a frame including a seat and suspending yokes having lower bars secured across the under face of the end portions of said seat and upstanding front and rear arms, the front arms having their upper portions directed rearwardly and secured to the rear arms to provide side arms for the chair, the rear arms having their upper portions formed into rearwardly extending hangers, a pad for said seat including a cover sheet having its marginal portions secured against the under face of said seat, envelopes entirely enclosing the portions of the front and rear arms of the yokes constituting the side arms of the chair, said envelopes being formed with openings in their upper rear corners through which the rear arms of said yokes project and having inner and outer walls the lower ends of which are secured to said seat, a strap extending upwardly from the front of the seat intermediate its width and having a loop at its upper end, and straps carried by said envelopes and releasably joined with one passed through said loop.

1,680,795. BRUSH-LIFTING DEVICE FOR ELECTRIC MOTORS. GEORGE H. LELAND, Dayton, Ohio, assignor of one-half to The Leland Electric Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 18, 1926. Serial No. 95,579. 28 Claims. (Cl. 172—279.)



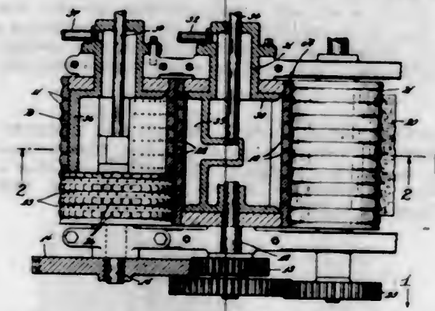
1. In a motor comprising a commutator and a brush holder having a stationary guideway, a brush supported in said guideway for movement therein toward and from said commutator, a device movably mounted at one side of said guideway to move said brush laterally in said guideway and hold the same against movement toward said commutator, and centrifugally controlled means to actuate said device.

1,680,796. VEHICLE WASHER. EDWARD H. LOSTETTER, Cincinnati, Ohio, assignor to Thomas F. Costello, Cincinnati, Ohio. Filed Dec. 21, 1922. Serial No. 608,207. 1 Claim. (Cl. 141—1.)



A vehicle washer including a drainage pit with vehicle runways extending alongside of the pit and having ducts leading therefrom into the pit, water pipes arranged in proximity to the pit to project water against a vehicle mounted on said runways, and means arranged adjacent a pit end to guide the vehicle on to said runways.

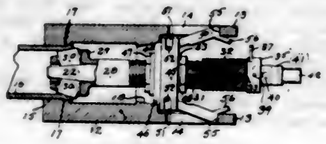
1,680,797. PAPER-CRINKLING APPARATUS. WILLIAM A. LORENZ, West Hartford, Conn., assignor to The Otaka Fabric Company, Hartford, Conn. Filed July 16, 1927. Serial No. 206,255. 6 Claims. (Cl. 92—69.)



1. In a paper crinkling apparatus, a cylinder, a second cylinder adjacent thereto adapted to receive a web therefrom and rotating at a slower speed than said first cylinder, one at least of said cylinders being hollow and having perforations throughout its periphery, means whereby air may be exhausted from said cylinder to cause the web to adhere to the periphery thereof, and means whereby air may be blown through the perforations of said cylinder to strip the web therefrom.

1,680,798. FLARING EXPANDER. GRAVES R. MAUPIN, Moberly, Mo., assignor to The J. Faessler Manufacturing Company, Moberly, Mo., a Copartnership composed of John W. Faessler, Christinia Faessler, Louis E. Faessler, and Graves R. Maupin. Filed Mar. 25, 1927. Serial No. 178,330. 2 Claims. (Cl. 153—82.)

1. A flaring expander comprising a sleeve and having a cage on one end thereof, flaring rollers carried by said cage and adapted to be projected radially therethrough, a mandrel located in said sleeve and adapted at its rear end to receive a rotating means so that said mandrel can be rotated, a tapered tip detachably carried by the forward end of said mandrel, said tip contacting with said rollers, means carried by said sleeve for feeding said mandrel forward, means carried by said mandrel and adapted to operatively engage with said feeding means whereby said feeding means is operated when the mandrel is rotated, a thrust collar adjustably and rotatably mounted on said sleeve, said thrust collar adapted to prevent



said cage from moving longitudinally when the device is in operation, and means for removably securing said thrust collar in a hand hole.

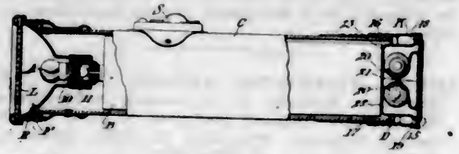
1,680,799. ESTERS OF UNSATURATED ACIDS. WALTER MINNICH, Montreux, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Original application filed Nov. 10, 1924, Serial No. 749,045, and in Switzerland Nov. 19, 1923. Divided and this application filed Feb. 3, 1928. Serial No. 251,753. 1 Claim. (Cl. 260—106.)

As new articles of manufactnre useful in therapeutics the herein described esters of cholesterol with unsaturated acids of the general formula:

R.COOH

wherein R stands for a low aliphatic hydrocarbon-radical carrying at least one double linkage.

1,680,800. FLASH LIGHT. CHARLES OSEAN, Woodcliff, N. J., assignor to National Carbon Company, Inc., a Corporation of New York. Filed Mar. 24, 1922. Serial No. 546,380. 8 Claims. (Cl. 240—10.5.)



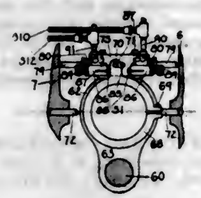
6. A flashlight comprising the combination of an incandescent lamp, a reflector, means whereby said lamp and said reflector are relatively adjustable, a battery in circuit with said lamp and movable to effect a relative adjustment of said lamp and said reflector, a casing for said battery, receptacle means bearing against the bottom end of said battery, and an end cap adjustably coupled to said casing and arranged so that its adjustment causes movement of said receptacle means and said battery.

1,680,801. DECORATING METAL ARTICLES. PHILIP A. REUTTER, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 8, 1927. Serial No. 238,508. 5 Claims. (Cl. 41—34.)



1. As a new article of manufacture, a container having a surface ornamentation produced by loosely securing around its outer walls a covering made up of a plurality of independent sections, certain of which have their edges in abutting relation and forming when in place a surface design.

1,680,802. BEVEL-GEAR GENERATOR. JULIAN L. PERKINS, West Springfield, Mass., assignor, by mesne assignments, to Perkins Machine and Gear Company, Springfield, Mass., a Corporation of Massachusetts. Filed June 11, 1925. Serial No. 36,431. 170 Claims. (Cl. 90—1.)

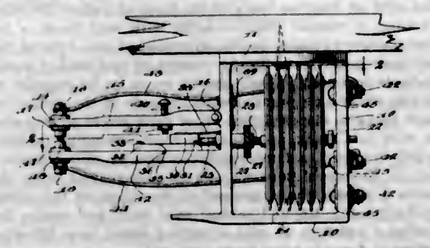


1. In a bevel-gear generator, an oscillatory cutter-head, a cutter having a lateral cutting part, means to move said cutter in an unsymmetrical circuitous path in a plane in said cutter-head, the portion of said path through which said cutter moves during the actual cutting operation being substantially straight, and automatic means intermittently to oscillate said cutter-head to make up the difference between the width of said cutting part and that of a slot to be cut thereby.

20. In a bevel-gear generator, a cutter having a lateral cutting part, means to move said cutter in an unsymmetrical circuitous path in a plane, the portion of said path through which said cutter moves during the actual cutting operation being substantially straight, means intermittently to rock said cutter, first in one direction and then in the other direction, to make up the difference between the width of said cutting part and that of the slot to be cut thereby, and means intermittently partially to rotate said cutter on an axis, first in one direction and then in the other direction, to accommodate said cutting part to the side angles of said slot, said cutter being rocked and partially rotated in opposite directions relatively, means to support the work in operative position relative to said cutter, and means to roll the work into and out of engagement with said cutting part.

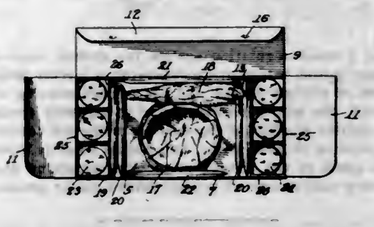
142. The combination, in a bevel-gear generator, with a bearing member, of a sleeve journaled in said member, a nut secured to said sleeve at the outer terminal thereof, work-holding members also secured to said sleeve, a clutch-member mounted on and secured to said sleeve outside of said bearing member, a second clutch-member mounted on said sleeve, said clutch-members having interengaging teeth, and said first clutch-member also having peripheral teeth, a spring arranged to force said second clutch-member toward said first clutch-member, cam-rings on and between said clutch-members outside of said interengaging teeth, one of said cam-rings having peripheral teeth, a segmental-gear mounted on said cam-rings and carrying a pawl to engage the cam-ring peripheral teeth, and also carrying a pawl to engage said clutch-member peripheral teeth, a guide band arranged over said first clutch-member, and having a recess therein to permit one of said pawls to snap into engagement with said clutch-member peripheral teeth, a rack intermeshing with said segmental-gear, and means intermittently to actuate said rack.

1,680,803. REGULATOR. RAY MILLER PETERSIME, Gettysburg, Ohio. Filed Dec. 8, 1925. Serial No. 74,202. 20 Claims. (Cl. 200—140.)



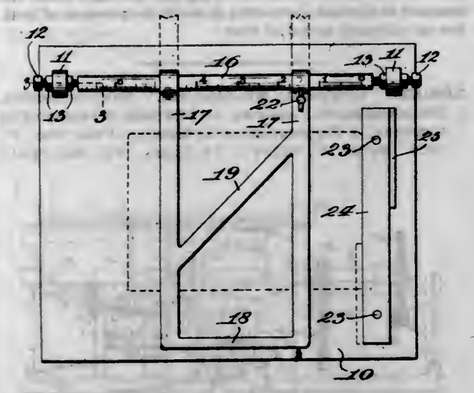
1. A regulator comprising a stationary arm, a movable arm, contacts arranged on said arms, a slidable member, means for automatically sliding said member, and means arranged in the path of said slidable member for forcing the same into and out of engagement with said movable arm for separating said contacts when engaging said means and for permitting engagement of said contacts when disengaging said means.

1,680,804. EYE-DRESSING PACKET. ERNEST REMLEY, East Orange, N. J., assignor to Hygienic Fibre Company, Incorporated, Versailles, Conn., a Corporation of Massachusetts. Filed Mar. 31, 1926. Serial No. 98,685. 3 Claims. (Cl. 206—63.2.)



2. A first aid eye-packet comprising a box having a movable cover, upstanding partitions forming with the box walls a large compartment extending throughout the major portion of said box and also forming smaller compartments in at least one end portion of the box, vials arranged within the smaller compartments, an eye cup wrapped in an enclosing material and having its width and depth reduced immediate its top and bottom and located within the large compartment, and an absorbent upstanding pad wrapped in paper and lining each wall of the large compartment to protect said eye cup, at least one of said pads being arranged between said eye cup and each vial to also protect the vials, the front wall of said box being cut low across the central portion of the large compartment to facilitate identification and withdrawal of its contents.

1,680,805. TILE MAKING AND CUTTING GAUGE. HENRY SCHMIDT, Santa Monica, Calif. Filed Oct. 1, 1927. Serial No. 223,256. 7 Claims. (Cl. 33—76.)



1. A tile marking and cutting gauge comprising a base, a rod supported thereupon, a gauge block arranged on the base at right angles to said rod, a frame mounted for sliding and swinging movement upon said rod and which frame includes a pair of spaced approximately parallel straight edges that lie parallel with said gauge block when said frame rests upon said base, and a diagonally arranged straight edge between said parallel straight edges.

1,680,806. REGULATING SYSTEM FOR MAINTAINING ELECTRIC CONVERTERS AT A CONSTANT SPEED. KARL SCHMIDT, Berlin-Sudende, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Original application filed Jan. 15, 1924, Serial No. 686,432, and in Germany Feb. 17, 1923. Divided and this application filed June 6, 1925. Serial No. 35,501. 10 Claims. (Cl. 171—229.)



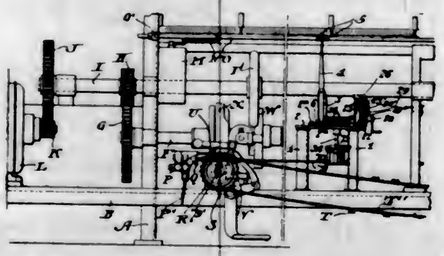
1. In a speed regulating system for electric converters, a driving motor, a regulating generator, a circuit including a source of electric energy and the exciter winding of the generator, the said generator being operatively connected to the exciter winding of the driving motor for controlling the excitation of said motor, and means directly governed by the speed of the driving motor for energizing and de-energizing said circuit at predetermined motor speeds.

1,680,807. CATALYST COMPACT AND PROCESS OF MAKING SAME. WILLIAM SCHULTZE, Syracuse, N. Y., assignor to Atmospheric Nitrogen Corporation, Solvay, N. Y., a Corporation of New York. Filed Aug. 16, 1923. Serial No. 657,817. 10 Claims. (Cl. 23—234.)



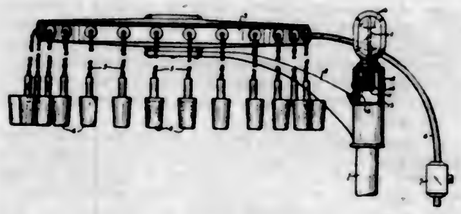
1. A catalyst compact, porous with reference to the gases to be catalyzed, said compact being constituted of hard granules of a non-readily cohering catalyst material substantially free from extraneous adhesive agents, said granules being maintained in fixed relation, by an autogenous bond, characteristic of a pressure induced surface coaction of the granules themselves as distinguished from a union due to extraneous matter, said relation being so fixed that it is maintained during and retained after the compact is exposed to reacting gases in the presence of heat, for an extended period of time.

1,680,808. CONTROL MECHANISM. CONRAD SCHÜTZ, Philadelphia, Pa., assignor to Liberman Manufacturing Company, a Corporation of Delaware. Filed Dec. 27, 1923. Serial No. 682,991. 14 Claims. (Cl. 192—139.)



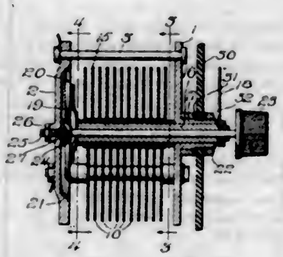
2. An automatic control for fabricating machines, comprising a power controller, a shift element for operating the same, a lever adapted to operate and to be operated by the shift element, a reciprocating mechanism adapted to actuate and to be actuated by the lever, an actuating cam for cooperating with the reciprocating mechanism, said reciprocating mechanism having an element adapted to move into and out of the path of the cam, and means comprising a disc rotating synchronously with the machine and provided with peripheral surfaces and recesses and means including latching and releasing devices cooperating with said peripheral surfaces and recesses for rendering the cam actuation ineffective during predetermined periods.

1,680,809. HAIR-CURLING APPARATUS. WILLIAM GENTRY SHELTON, New York, N. Y. Filed Aug. 7, 1926. Serial No. 127,761. 4 Claims. (Cl. 219—24.)



1. In a hair-curling apparatus, an electrical heating element whereby the curled hair is heated, and a temperature indicator comprising a second electrical heating element electrically connected to the first mentioned heating element, and a heat-responsive indicator associated with said second heating element to indicate a predetermined temperature condition at the curled hair.

1,680,810. VARIABLE CONDENSER. HAROLD H. SHOTWELL, Chicago, Ill., assignor to The Operadio Corporation, Chicago, Ill., a Corporation of Illinois. Filed June 27, 1924. Serial No. 722,655. 2 Claims. (Cl. 74—7.)



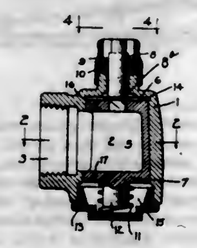
1. In combination, a supporting frame having a wall provided with an annular track in the form of a short frustum of a cone, a tubular shaft co-axial with said track, a resilient device yieldable in the direction of the axis of the shaft fixed to the latter in the vicinity of said wall, a group of wheels mounted on said device so as to be capable of rotating about axis parallel with the axis of the shaft, the wheels being so disposed that all of them are in rolling contact with said track, an actuating shaft extending through the tubular shaft, a frusto-conical wheel on said actuating shaft in the space between and in engagement with the aforesaid wheels, the larger end of the wheel on the actuating shaft being directed toward said wall, and means for exerting a pressure on said actuating wheel in a direction tending to force it away from said wall.

1,680,811. FUNERAL CAR. ROBERT SILVER, Knightstown, Ind. Filed Mar. 10, 1927. Serial No. 174,354. 8 Claims. (Cl. 296—16.)



1. The combination of a vehicle body, doors mounted in each side of the body and adapted to provide an unobstructed opening through which a casket may be loaded, and rollers mounted in the floor of said body and having their axes positioned obliquely with respect to said vehicle body for guiding a casket from an angular to a longitudinal position and rollers mounted in the floor of the body with their axes transverse of the vehicle for guiding the casket longitudinally of the vehicle, substantially as set forth.

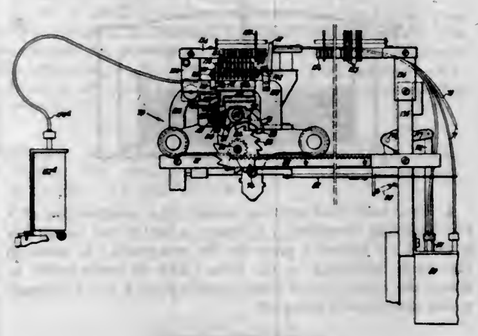
1,680,812. VALVE. WILLIAM E. SLOAN, Chicago, Ill. Filed Feb. 12, 1923. Serial No. 618,435. 4 Claims. (Cl. 251—98.)



1. A valve comprising a casing, a single rotating closing piece therein, end pieces connected with said closing piece and having conical shaped faces, said closing piece being eccentric with relation to said end pieces, conical seats for said end pieces and closing piece, the space between said end pieces beyond the closing piece being unobstructed, a stem connected with one end piece centrally thereof, both ends of said stem being noncircular, the end pieces and closing piece adapted to be moved inwardly to be disengaged from their seats so that they can be rotated to open the valve.

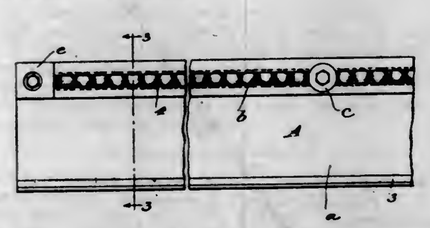
1,680,813. COMBINED TYPEWRITING AND CARD-PERFORATING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 20, 1926. Serial No. 103,220. 41 Claims. (Cl. 164—113.)

1. The combination with a typewriter having a letter-feeding carriage, a card-perforator having a hole-spacing carriage, a denominational tabulating mechanism on said typewriter controlled by a plurality of denominational keys, and electric coupling means whereby said typewriter and card-perforator may be jointly operated, and whereby the perforator-carriage is caused to move in unison with the typewriter-carriage during the type-key operations, of means whereby operation of said denominational keys to



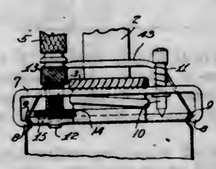
position the typewriter-carriage may also cause said perforator-carriage to be co-relatively but dissentaneously positioned.

1,680,814. BALL-BEARING RAIL. MICHAEL SNEE, Los Angeles, Calif. Filed Feb. 27, 1928. Serial No. 257,531. 3 Claims. (Cl. 238—16.)



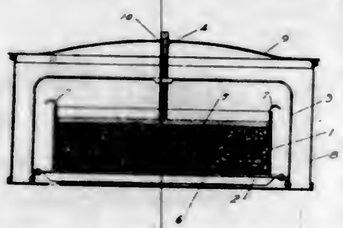
1. In a rail, rollers within said rail and projecting outwardly from a surface thereof, and means between certain of said rollers for spacing said rollers apart comprising a disc formed with a shank threaded to said rail in the zone of said rollers.

1,680,815. AIR VENT AND PRESSURE FITTING FOR LIQUID CONTAINERS. GEORGE P. SORENSEN, Chicago, Ill. Filed Oct. 29, 1923. Serial No. 671,331. 7 Claims. (Cl. 221—23.)



1. In combination with a portable receptacle the top wall of which is provided with a discharge opening near the outer edge thereof and an air vent laterally spaced from said discharge opening, a yoke provided with means for engaging the receptacle and a threaded nipple carried by threads in the yoke for adjustment toward and from the top wall of the receptacle in registration with the vent.

1,680,816. UTENSIL FOR FORMING MEAT LOAVES. RALPH D. SPAULDING, Linesville, Pa. Filed July 6, 1926. Serial No. 120,614. 2 Claims. (Cl. 100—57.)



1. In a meat loaf cooking utensil, the combination of a loaf-receiving receptacle; a frame in which the receptacle is placed; a pressure plate in the receptacle; a screw in the frame operating on the plate; and an outer boiler in which the receptacle is placed comprising a cover through which the screw is operated.

1,680,817. GOLF CLUB. DAVID SPITTAL, Chambly Basin, Quebec, Canada. Filed Dec. 28, 1927, Serial No. 243,075, and in Canada Aug. 11, 1927. 2 Claims. (Cl. 273—80.)



1. A golf club consisting of a head and a combined steel and hickory shaft, the steel shaft extending up the hickory shaft for substantially half of its length, means securing the foot of the steel shaft to the head of the club, the hickory shaft extending through the steel shaft and the head to the sole of the head, means locking the ends of the steel and wood shafts to the head at the sole and reinforcement means uniting the top of the steel shaft portion to the hickory shaft.

1,680,818. ANTIRACHITIC PRODUCT AND PROCESS. HARRY STEENBOCK, Madison, Wis., assignor to Wisconsin Alumni Research Foundation, a Corporation. Filed June 30, 1924. Serial No. 723,171. 8 Claims. (Cl. 99—11.)

1. The process of imparting antirachitic properties to organic substances of dietary value (for example carbohydrate foods, fats, oils, protein foods, or composite foods), which comprises subjecting the same to the action of ultraviolet rays, such as are produced by a quartz mercury vapour lamp, for a period sufficient to effect antirachitic activation but so limited as to avoid subsequent substantial injury of the antirachitic principle.

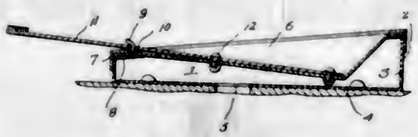
5. Naturally deficient (in the antirachitic factor) food substance antirachitically activated in accordance with the process set forth in claim 1.

1,680,819. PRINTING DEVICE. ULRICH F. L. STEINDORFF, New York, N. Y. Filed Mar. 5, 1924. Serial No 696,938. 3 Claims. (Cl. 101—368.)



1. A manually operated stamping device of the kind described comprising a flat stamping plate adapted to be manually shifted about to different stamping positions having an impression surface and a plurality of manipulating projections extending outwardly from the peripheral edge of said plate for lifting the latter from the impression receiving surface and shifting it to different stamping positions, said projections being of less thickness than the plate and being accessibly disposed above and at a distance from said impression receiving surface when the device is in use.

1,680,820. STRIKER DEVICE FOR PLAYER PIANOS. CHARLES T. STEPHENS, Chicago Heights, Ill., assignor to George S. Angus, Chicago Heights, Ill. Filed Feb. 2, 1925. Serial No. 6,382. 4 Claims. (Cl. 84—65.)



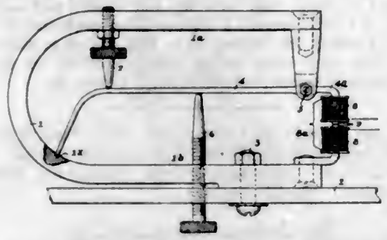
1. A striker device for player pianos comprising a tapered casing deeper at one end than at the other separate from the pneumatic element and open at the top, said casing adapted to be fastened to the pneumatic element and provided in its bottom with an opening which communicates therewith, a cover for said casing having an opening therethrough, a flexible diaphragm confined at its edges by said cover so as to close said opening, and a striker arm projecting part way across the opening in the cover and attached to said diaphragm.

1,680,821. BRIDGE. JOSEPH B. STRAUSS, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 431,849. 4 Claims. (Cl. 14—36.)



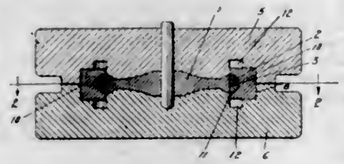
1. A bascule bridge comprising a main span, trunnions upon which it is mounted, a counterweight separate from said main span, separate trunnions upon which said counterweight is mounted, a link connecting said counterweight with said main span, mechanism for moving the parts so that the counterweight counterbalances the main span while it is being opened and closed, said counterweight located between the end of the top chord of the main span and the trunnions of the counterweight when the bridge is closed.

1,680,822. SOUND REPRODUCER. GASTON STROBINO, Paterson, N. J. Filed Oct. 29, 1926. Serial No. 144,986. 11 Claims. (Cl. 179—115.)



1. In a sound reproducing apparatus, a system to be vibrated including an elastic flexible vibrating structure and means for exerting variable elastic flexing pressure on said structure at either of two points thereof in substantially a common plane of flexure, in combination with coactive electromagnet and armature elements arranged one on a part of said system which is moved on flexing of said structure and the other on another part of said system.

1,680,823. PROCESS OF MANUFACTURING COMPOSITE RUBBER WHEELS OR OTHER ARTICLES. EARL S. TEED, Akron, Ohio, assignor to The Textile Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 2, 1927. Serial No. 230,476. 6 Claims. (Cl. 18—59.)



5. The process of vulcanizing a composite rubber article comprising portions of rubber of diverse hardness, comprising forming the sections of the article from appropriate uncured compounds and vulcanizing the article, permitting the rubber to overflow at the regions where said rubber compounds are contiguous, and confining the rubber at all other points about the article.

1,680,824. SICKLE. GEORGE K. THOMPSON, Maplewood, N. J. Filed Oct. 31, 1927. Serial No. 229,811. 1 Claim. (Cl. 30—9.)

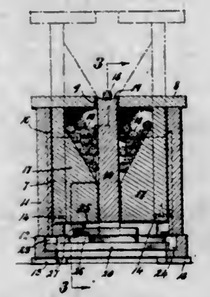


The combination of a sickle having a curved holder and a handle therefor, said holder comprising a pair of parallel plates provided with a series of openings spaced at definite intervals from each other, the openings in each plate being alined with those of the opposite plate, a series of separate cutting instruments removably mounted between the plates of said curved holder, and means extending through said openings for clamping said cutting instruments to said holder to form a continuous cutting edge conforming to the curvature of the holder.

1,680,825. METHOD OF PULVERIZING AND ALLOYING NICKEL. WILLIAM R. VEAZEY, Cleveland Heights, Ohio, assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Aug. 9, 1923. Serial No. 656,547. 5 Claims. (Cl. 75—1.)

1. In a method of the character described, the step which consists in heating together metallic nickel and magnesium at a temperature below the melting point of the former but above that of the latter until sufficient magnesium is absorbed by the nickel to render same readily pulverizable.

1,680,826. CIGARETTE BOX. DOMENICO VIOLA, Philadelphia, Pa. Filed June 13, 1927. Serial No. 199,109. 3 Claims. (Cl. 312—77.)

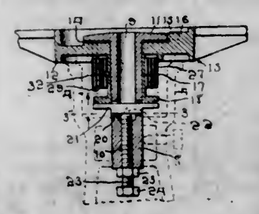


1. In a dispensing device for individual cigarettes or the like and comprising a stationary outer casing and base with a relatively telescopic inner shell embodying filler blocks affording storage for cigarettes, and a member slidable laterally of the aforesaid base and adapted to frictionally engage in apertures in the walls thereof to effect locking of the inner shell thereto.

1,680,827. YEAST STIMULANTS AND PROCESS OF USING THEM. THEODORE B. WAGNER, Brooklyn, N. Y. Filed June 2, 1923, Serial No. 643,065. Renewed Jan. 13, 1928. 2 Claims. (Cl. 99—10.)

1. As a new article of manufacture for use in connection with yeast containing dough, a yeast stimulant consisting of a mixture of amylaceous material and the dried solubles contained in corn steepwater.

1,680,828. STOOL FOR SERVICE COUNTERS. JOSEPH S. WALTON, Los Angeles, Calif. Filed May 27, 1926. Serial No. 112,160. 6 Claims. (Cl. 155—95.)



1. In combination, a spindle having a head at one end, a sleeve movable axially on said spindle, a hub rotatable on said spindle intermediate the sleeve and head, means for securing the sleeve in various angular positions with respect to the spindle, a spring connected with the sleeve and the hub and subject to tension variations incident to the varying angular adjustments of the sleeve and spindle, and means coacting with the sleeve securing means to displace the sleeve axially of the spindle whereby to compensate for loose movement between the spindle and hub.

1,680,829. TROLLEY GUARD. GEORGE WEBER, Pittsburgh, Pa. Filed Apr. 20, 1927. Serial No. 185,110. 4 Claims. (Cl. 191—37.)



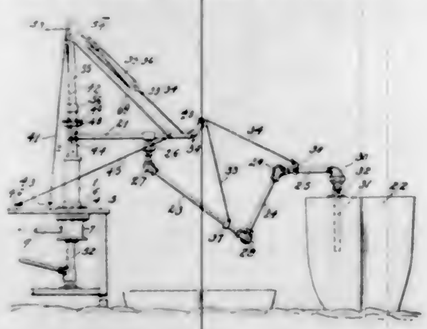
1. In a trolley of the character described, the combination with a trolley pole having a bifurcated free end and a trolley wheel journaled for rotation in the latter, of a pair of guard plates carried by said bifurcated free end and disposed at respective sides of said trolley wheel, said guard plates extending beyond the periphery of the upper portion of said trolley wheel, and a trolley roller rotatably mounted in said pair of guard plates and having its contacting periphery normally disposed below the contacting periphery of said trolley wheel.

1,680,830. METHOD OF MAKING PLOWSHARES. WILLIAM ISIAH WHEELER, Scottville, Ill. Filed Mar. 28, 1923. Serial No. 628,282. 1 Claim. (Cl. 29—14.)



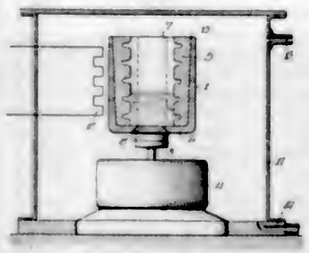
A method for pointing a plow share consisting in providing an initially formed plow share point having a bar portion having its rear end formed to provide a fork, and a lower share portion integrally connected thereto, fitting the share proper to the bar portion and share portion and within the fork, and then fusing the abutting edge portions together.

1,680,831. FLUID-CONVEYING APPARATUS. WALTER CARMAN WHITE, Pittsburgh, Pa. Filed June 24, 1924. Serial No. 722,000. 7 Claims. (Cl. 137—78.)



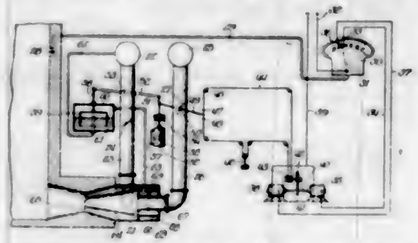
1. In a fluid conveying apparatus, a centrally apertured vertical guide-sleeve; means for securing same to a stationary foundation; a base-cap positioned below said guide-sleeve and adapted to close the lower end thereof; a tubular mast guided by said sleeve for rotative and longitudinal movement; packing means positioned at the lower end of said mast; adjustable supporting means adapted to lower said base-cap and expose said packing below said guide-sleeve; a tubular boom connected to said mast; a supply line connected to said base-cap; said base cap, mast and boom being jointly adapted to convey therethrough fluids carried by said supply-line.

1,680,832. CERAMIC PRODUCT AND PROCESS OF PRODUCING THE SAME. LAURENCE R. WILDER, New York, N. Y. Filed Oct. 4, 1926. Serial No. 139,304. 6 Claims. (Cl. 25—156.)



1. The method of manufacturing a porcelain member having a predetermined outer shape, which comprises the steps of pouring a moldable, relatively fluid mixture containing the substantive ingredients of the porcelain into a mold having an interior surface substantially corresponding to the final shape of the porcelain member, and subjecting the fluid mass to centrifugal action by rotating said mold at sufficient speed to cause the substantive ingredients of the mixture to mass adjacent the surface of the mold under substantial segregation from the fluid contents of the molding mixture, removing said fluid contents, and firing the semi-final porcelain product so molded.

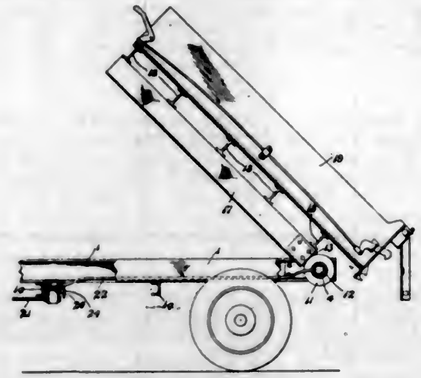
1,680,833. METHOD AND APPARATUS FOR THE CONTROL OF COMBUSTION. FREDERICK H. WILLCOX, Chicago, Ill., assignor to Freyn Engineering Company, Chicago, Ill., a Corporation of Maine. Filed May 17, 1924. Serial No. 713,967. 2 Claims. (Cl. 236—1.)



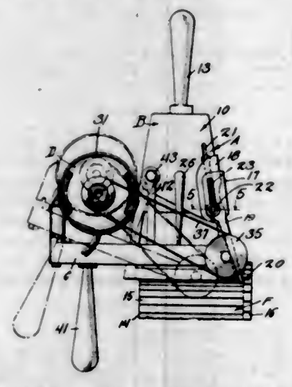
1. Apparatus for the control of gaseous combustion comprising a burner, gas and air passages leading to the burner, a valve controlling the air passage, automatic valve control means responsive to unbalanced gas and air pressures, and additional automatic valve control means responsive to variations in the carbon dioxide content of the products of combustion from the burner.

1,680,834. DUMPING-BODY HOIST. EDWARD L. WOOD, Detroit, Mich. Filed Oct. 18, 1926. Serial No. 142,244. 9 Claims. (Cl. 298—22.)

2. In combination with a chassis truck frame, a shaft carried between the sides of the frame, a cylinder located around the shaft for the major portion of its length, the shaft at each end extending beyond the ends of the cylinder, heads closing the ends of the cylinder, lifting arms projecting from the cylinder adapted when the cylinder is turned to tilt a dumping body mounted on said truck frame, and means for hydraulically turning the cylinder about said shaft and lifting said arms.



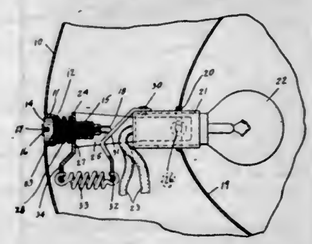
1,680,835. UNDERCUTTING TOOL FOR COMMUTATORS. ELBA O. ADKINS, Huntington, W. Va., assignor of one-half to The Huntington Auto Supply Company, Huntington, W. Va., a Corporation of West Virginia. Filed Mar. 10, 1926. Serial No. 93,815. Renewed June 20, 1927. 8 Claims. (Cl. 90—12.)



1. A portable tool for undercutting the mica strips of commutators comprising a supporting frame for engaging and resting solely upon the commutator, a swinging frame carried by the supporting frame, an operating motor, a drive shaft rotatably carried by the swinging frame and operated from said motor, a rotary tool secured to the shaft for engaging the mica strips and a manipulating handle secured to the swinging frame.

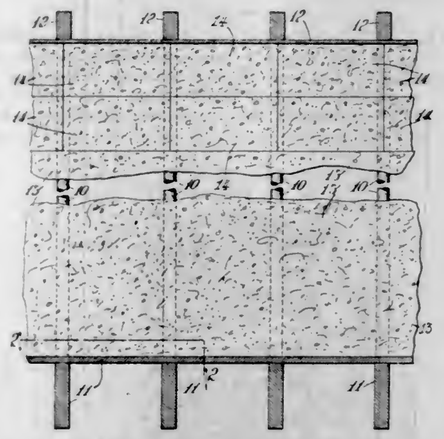
1,680,836. LAMP-FOCUSING DEVICE. EDWARD C. ALBRIGHT, Connersville, Ind., assignor to Indiana Lamp Corporation, Connersville, Ind., a Corporation. Filed June 11, 1927. Serial No. 198,228. 3 Claims. (Cl. 240—44.)

1. In a focusing lamp including an apertured reflector, an apertured casing in spaced relation therewith, and a lamp bulb socket mounted in the reflector aperture for universal movement thereon, and extending toward the casing, the combination of a U-shaped strap having its midportion positioned between the socket and the casing and its arms extending towards the socket and hingedly connected therewith, a cam forming strap having one end rigid with the socket and extending rearwardly between the arms of the U-shaped strap, resilient means interposed between the straps and normally constraining the socket and cam toward one position, a tubular threaded device positionable in the casing aperture and having



threaded connection at its inner portion with the U-shaped strap midportion and an outer, casing exposed, tool engageable portion, and a second coaxially mounted threaded member receivable by and having threaded connection with the tubular device and having an inner end projecting beyond the same towards and into engagement with said cam and an outer, casing exposed, tool engageable end.

1,680,837. MONOLITHIC WALL AND METHOD OF BUILDING THE SAME. HAROLD S. ASHENHUAST, Chicago, Ill., assignor, by mesne assignments, to Insulex Corporation, Chicago, Ill., a Corporation of Delaware. Filed Feb. 16, 1925. Serial No. 9,639. 3 Claims. (Cl. 72—16.)

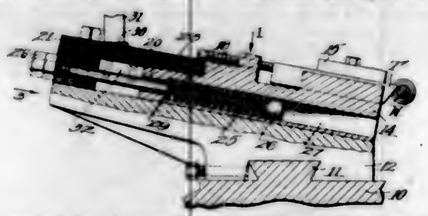


1. A wall comprising a body of cellular material of high insulating value and composed mainly of gypsum, of integral construction at its lower portion and built up of separate blocks at its upper portion.

1,680,838. TOOL CARRIAGE AND SLIDE FOR MACHINE TOOLS. RICHARD A. ASHTON, Seneca Falls, N. Y., assignor to Seneca Falls Machine Co., Seneca Falls, N. Y., a Corporation of Massachusetts. Filed Mar. 18, 1926. Serial No. 95,778. 3 Claims. (Cl. 82—14.)

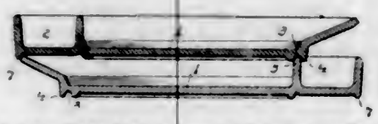
1. In a machine tool, a frame, a tool carriage slidable along said frame, a tool slide mounted on said carriage, a templet bar fixed to said frame, a templet block on said

tool slide engaging a cam face of said templet bar to move said tool slide towards the work, means to yieldingly move said tool slide from the work and to hold said templet block against said templet bar, said slide having a recess



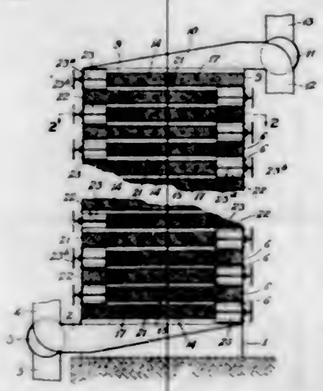
therein and said yielding means comprising a headed rod fixed in said carriage and having its headed end received in said recess, and a spring encircling said rod and compressed between the head of said rod and a shoulder in said recess.

1,680,839. PLATE. WILLIAM H. BAKER, Boston, Mass. Filed Oct. 25, 1926. Serial No. 144,135. 2 Claims. (Cl. 65—15.)



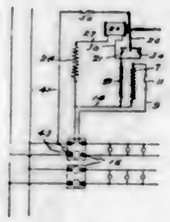
1. A plate formed with a cup in its rim, the bottom of the cup being substantially even with the bottom of the plate, and its top edge even with the periphery of the plate, the undersurface of the plate diametrically opposite its cup being a groove and an elongated lug disposed for engagement with the inner edge of the cup of a like plate beneath.

1,680,840. PROCESS OF SEPARATING AND RECOVERING GASES. OSCAR L. BARNEBEY, Columbus, Ohio, assignor to American Solvent Recovery Corporation, a Corporation of Ohio. Filed July 20, 1920, Serial No. 397,745. Renewed Feb. 27, 1928. 22 Claims. (Cl. 183—4.)



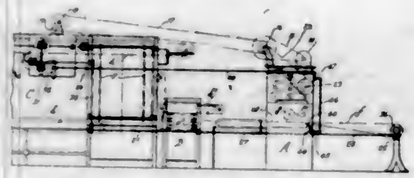
1. The process of separating the constituents of gaseous mixtures which comprises passing the mixture under pressure above that of the atmosphere successively through a plurality of separated layers of solid adsorbent material and interposed spaces, the said adsorbent material being adapted to adsorb a certain constituent or constituents of said mixture and permit other constituents to pass therethrough and the interposed spaces being adapted to permit the gas emerging from one layer of adsorbent material to thoroughly diffuse therein before entering the next layer, and then driving off the adsorbed gas from said material.

1,680,841. ELECTRIC-CIRCUIT TRACER. HENRY B. BARTLETT, West Hartford, Conn. Filed Dec. 10, 1926. Serial No. 153,828. 7 Claims. (Cl. 175—183.)



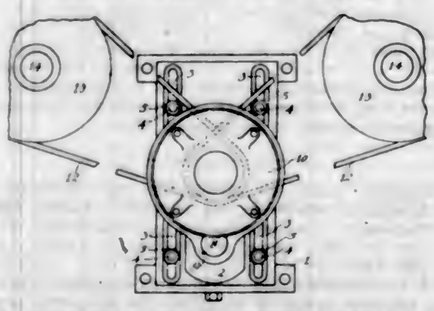
1. A portable electrical circuit tracer comprising a transformer having output and input windings, means for detachably connecting the output winding in series with the load on the circuit to be traced, means for detachably connecting the input winding across the circuit to be traced, and electromagnetic means for making and breaking connection to said input winding.

1,680,842. FEEDING MECHANISM FOR CONFECTIONERY MACHINES. ALONZO LINTON BAUSMAN, Springfield, Mass. Filed June 8, 1927. Serial No. 197,462. 7 Claims. (Cl. 107—7.)



2. In an apparatus, wherein alternately operable mechanisms are provided one for moving a plaque into and subsequently out of confection receiving relation with the conveyer of a confection coating machine and the other for moving the plaque while in said relation; means for driving said conveyer continuously, means for feeding articles to be coated to said conveyer, driving means for the feeding means, and means independent of both said mechanisms for periodically connecting and subsequently disconnecting the feeding means from its driving means, whereby confections may be fed in groups to said conveyer in such a manner that no confections will pass off said conveyer during the operation of the first named mechanism.

1,680,843. MOTOR MOUNTING. LESLIE J. BECHAUD, Berkeley, Calif., assignor to Bunting Iron Works, Berkeley, Calif., a Corporation of California. Filed Dec. 6, 1926. Serial No. 152,999. 1 Claim. (Cl. 308—11.)



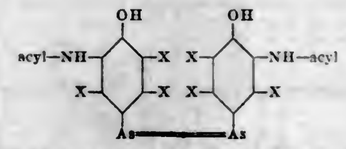
In combination, a prime mover having a driving shaft; driven shafts disposed on opposite sides relatively to said prime mover; separate endless transmission members connecting said driving shaft with said driven shafts; a plate carrying said prime mover; a swivel member eccentric to the driving shaft and about which the prime mover automatically swings freely under differential tension in said transmission members; and a bed plate carrying said prime mover plate and swivel member, said bed plate having means for adjusting it along a line radial to the arcuate movement of the prime mover plate.

1,680,844. WELDING OF COPPER AND COPPER ALLOYS. FREDERICK M. BECKET, New York, N. Y., assignor to Electro Metallurgical Company, New York, N. Y., a Corporation of West Virginia. Filed Feb. 21, 1922. Serial No. 538,364. 5 Claims. (Cl. 219—8.)

1. A welding rod consisting predominantly of copper and silicon, the silicon being present in amount between 1.25% and 4%.

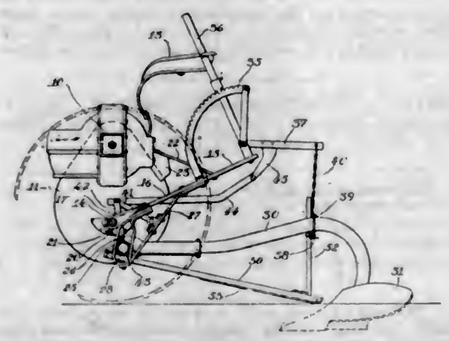
1,680,845. SUBSTITUTED 4.4' DIHYDROXYBISACYLAMINO-ARSENOBENZENES. LOUIS BENDA, Mainkur, near Frankfort-on-the-Main, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, a Corporation of Germany. Filed May 23, 1927, Serial No. 193,744, and in Germany June 28, 1926. 3 Claims. (Cl. 260—15.)

1. As new products substituted 4.4'-dihydroxy-bisacylamino-arsenobenzenes having probably the general formula:



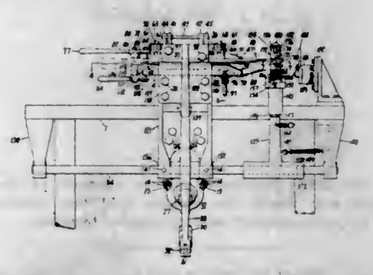
wherein the X's mean hydrogen atoms, of which at least one is replaced by a monovalent substituent, which products are when dry yellowish powders, insoluble in water, easily soluble in dilute caustic alkali solutions and precipitated by acidifying these solutions, being not diazotizable, distinguished by an excellent resistance to the air and by a very good curative power.

1,680,846. TRACTOR ATTACHMENT. BERT R. BENJAMIN, Oak Park, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Jan. 20, 1927. Serial No. 162,260. 6 Claims. (Cl. 97—47.)



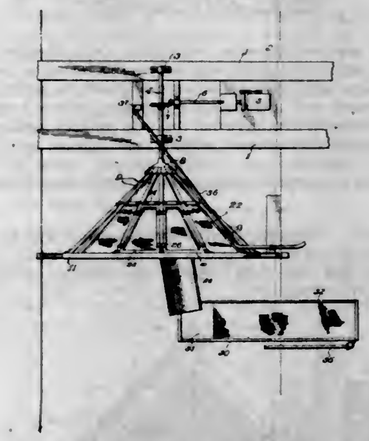
1. In an earth working implement, the combination of a horizontal draft bar, a plurality of spaced drag beams having forward ends connected to the draft bar, earth working means on the rear end of each beam, a transverse spacing bar connecting the rear portions of the beams, a ground engaging skid located between the beams having its forward end secured to the draft bar, and an upright member on the rear end of the skid having its upper portion secured to the spacing bar.

1,680,847. COIL-SPREADING DEVICE. AXEL W. BJORKMAN, Brooklyn, N. Y., assignor to Otis Elevator Company, New York, N. Y. a Corporation of New Jersey. Filed Jan. 4, 1927. Serial No. 158,893. 6 Claims. (Cl. 153—20.)



6. A device for spreading coils comprising, motive means, a movable former, a clamp associated with the movable former and arranged to grip a side of the coil to be spread and to act as a guide for a portion of an end of the coil, a stationary former, clamp blocks associated with the stationary former and arranged to grip the other side of the coil to be spread, and a clamp stud associated with the stationary former and arranged to grip said other side of the coil, said movable former being operated by the motive means to cause the coil to be spread into the form of an armature coil that may be withdrawn from the device upon the release of the clamp, the clamp blocks and the clamp stud.

1,680,848. FILTER. ERNEST L. BISHOP, Lindsay, Calif. Filed Aug. 11, 1926. Serial No. 128,672. 3 Claims. (Cl. 210—173.)

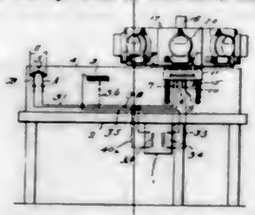


1. An apparatus for the purpose set forth comprising a shaft, a plurality of radially disposed diverging spokes extending from an intermediate point in the length of the shaft, a rim connecting the outer ends of said spokes, radial braces secured to and extending between the end of the shaft and intermediate points of the spokes, girders connecting the spokes at the ends of said braces, and a conical screen carried by the rim, the spokes and the girders.

1,680,849. ELECTRIC-METER-TESTING APPARATUS. HENRY J. BLAKESLEE, Hartford, Conn. Filed May 26, 1927. Serial No. 194,352. 7 Claims. (Cl. 175—183.)

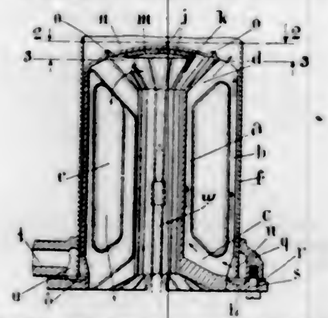
1. An electricity meter testing apparatus comprising a support, a plurality of test circuit terminals movably mounted on said support, a standard meter, an artificial

load and a source of current connected with said test terminals, a carrier adapted to receive a plurality of meters and convey them in succession into a position in



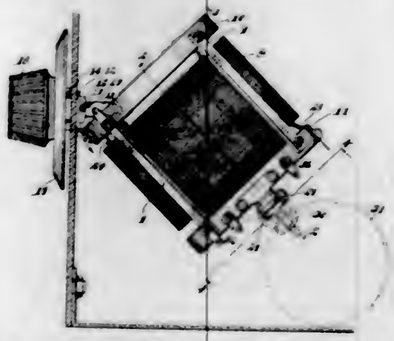
which the meter terminals may be engaged by the test terminals and means for moving said test circuit terminals into engagement with the meter terminals.

1,680,850. HEAT INTERCHANGER. CHARLES VERNON BOYS, Westminster, London, England. Filed Oct. 24, 1924, Serial No. 745,719, and in Great Britain Jan. 3, 1922. 2 Claims. (Cl. 257—222.)



1. A heat interchanger including a sheet of metal folded alternately inwardly and outwardly, so as to form a separating wall between a central uptake, a plurality of downcomers and a plurality of uptakes, means establishing communication between the said central uptake and plurality of downcomers whereby said uptake and downcomers constitute one conduit system, while the said plurality of uptakes constitute a separate conduit system.

1,680,851. CONSTRUCTION FOR RADIO RECEIVING INDUCTANCES. THOMAS H. BRENNAN, Chicago, Ill. Filed Apr. 27, 1925. Serial No. 26,025. 3 Claims. (Cl. 171—119.)

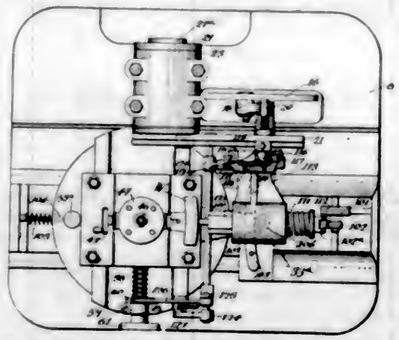


1. In a construction for radio receiving inductances, the combination with a bracket member, of a shaft having rotatable support in said bracket member; an insulation member carried by said shaft; a coil having its winding held by and positioned on said member and otherwise open to atmospheric dielectric; a second coil surrounding the first named coil; means for insulatively supporting the second named coil from said bracket member; an insulation strip hinged to said supporting means; and a third coil having its winding held by said hinge strip and adapted to be swung into various positions of adjustment with respect to said second named coil, substantially as described.

1,680,852. HAT. OCTAVE BROTELLE, Brussels, Belgium. Filed July 8, 1926, Serial No. 121,276, and in Belgium July 13, 1925. 4 Claims. (Cl. 2—181.)

1. A hat having a part thereof, adjacent the head of the wearer, impregnated with a soluble alkaline saponifying agent to render stain-forming ingredients of perspiration inactive after contact with said impregnated part.

1,680,853. MACHINE FOR CUTTING COMPOUND CURVES. RAY W. BROWN, Los Angeles, Calif., assignor to Barney Oldfield Manufacturing Company, Los Angeles, Calif., a Corporation of California. Original application filed Dec. 29, 1922, Serial No. 609,717. Divided and this application filed Mar. 29, 1926. Serial No. 98,289. 11 Claims. (Cl. 90—32.)



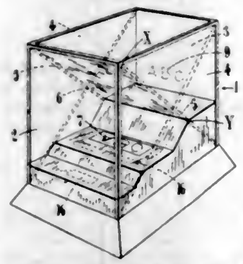
1. In a machine for forming curved surfaces having curves in planes at right angles to each other, an oscillating arm, a stationary guide element, a tool holder mounted for reciprocation along said element by the said oscillating arm, and fixed means engageable by and for moving the tool holder in a line at right angles to and as a result of the reciprocating action and a work holder movable in a path transverse to the action of said tool holder, and automatically actuated by the latter.

1,680,854. AUTOMOBILE SIGNAL SWITCH. HUGO J. BUCKNER, Hanford, Calif. Filed July 2, 1926. Serial No. 120,233. 3 Claims. (Cl. 200—59.)



1. The combination with a steering wheel and stationary steering column casing arranged beneath the same, of a pair of reciprocatory rods mounted upon the steering wheel to travel therewith during the turning of the same, said rods having their outer ends arranged near the rim of the steering wheel and having means whereby they may be shifted longitudinally by the hands of the driver without removing the hands from the steering wheel, said rods having contacts carried by their inner ends, a pair of spaced stationary segmental contacts mounted upon said casing and adapted to be engaged by the adjacent contacts of said rods when said rods are moved inwardly, and an insulated cam arranged between the contact segments and projecting radially therefrom, said cam being so arranged with relation to said rods that it is common to both rods and serves to push them outwardly when they are brought into proximity thereto.

1,680,855. ILLUSION DEVICE. WILLIAM ALBERT BURNS, London, England. Filed Jan. 22, 1926. Serial No. 83,148. 4 Claims. (Cl. 40—130.)



1. An illusion device, comprising an inclosure having a glass front, a glass back, and glass sides, a transparency supported within the inclosure, rails carried by the glass sides and inclined with respect to the plane of the transparency, and a transparent mirror carried by the rails to reflect an image of the transparency in a line of vision directed through the glass front and glass back, dummy rails on the glass sides to complete with the mirror supporting rails a pattern indication to avoid directing attention to the mirror supporting rails.

1,680,856. METHOD OF TREATING RUBBER LATEX. SIDNEY M. CADWELL, Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed Aug. 28, 1925. Serial No. 53,207. 15 Claims. (Cl. 18—50.)

1. Process of manufacturing rubber articles which consists in treating a rubber dispersion with a metallic compound and an organic acid salt capable of reacting to liberate metallic ions in the dispersion to form an uncoagulated composition of increased filterability and depositing rubber from the latex thus obtained directly on a porous form in the shape desired to make the article.

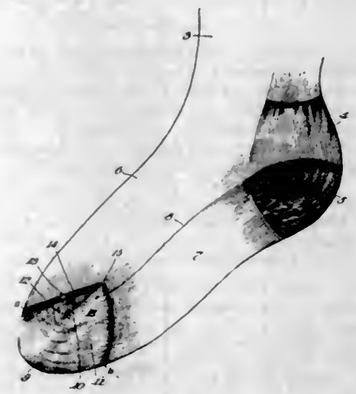
1,680,857. METHOD OF TREATING LATEX AND THE PRODUCTS OBTAINED THEREBY. SIDNEY M. CADWELL, Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed Sept. 22, 1925, Serial No. 57,958. Renewed June 19, 1928. 26 Claims. (Cl. 18—50.)

20. In a process for preparing a vulcanized latex, the step of adding to an approximately ammonia-free latex containing sufficient non-nitrogenous carbon disulphide accelerator, zinc oxide, and sulphur to cause the rubber in said latex to become vulcanized to a soft elastic product, sufficient additional sulphur, zinc oxide and tetramethylthiuramdisulphide to cause said rubber to be vulcanizable to a hard rubber at temperatures below approximately 212° F.

1,680,858. PROCESS FOR MANUFACTURING RUBBER ARTICLES FROM LATEX. SIDNEY M. CADWELL, Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed Sept. 22, 1925. Serial No. 57,959. 13 Claims. (Cl. 18—53.)

1. A process for manufacturing rubber articles from latex which consists in vulcanizing latex in the presence of a salt of a thiol acid, and depositing the rubber from the latex thus obtained directly on a porous form in the shape desired to make the article.

1,680,859. STOCKING. PETER CAPARELI, Philadelphia, Pa. Filed Dec. 14, 1926. Serial No. 154,795. 4 Claims. (Cl. 66—182.)

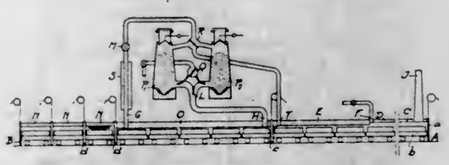


4. A knitted stocking having a toe pocket with a diagonal suture on each side, the distance from the point of the toe pocket to the upper edge of the web forming the upper part of said toe pocket being less than the distance from the point of the toe pocket to the lower edge of the lower web.

1,680,860. TOBACCO SUBSTITUTE WITH THERAPEUTICAL PROPERTIES. FRANK KERR CHISHOLM, Goulburn, Australia. Filed Dec. 2, 1926, Serial No. 152,311, and in Australia Jan. 18, 1926. 3 Claims. (Cl. 167—11.)

1. The manufacture of a tobacco substitute with therapeutical properties which consists in semi-drying natural eucalyptus leaves, bursting the cell structure of the leaves by rolling, macerating them in an aqueous solution containing about 10% of an hygroscopic substance and 10% of a flagrating substance, submitting them to heat within a temperature range of 100° F.—200° F. for a period of approximately three hours, subjecting them to pressure of the order of two tons per square inch in a compacted mass in moulds heated to a point not above 212° F. and curing the pressed mass by ageing.

1,680,861. METHOD OF ROASTING AND REDUCING ORES. BROR CHRISTIANSEN, Smedjebacken, Sweden. Filed Mar. 29, 1926, Serial No. 98,347, and in Sweden Apr. 7, 1925. 4 Claims. (Cl. 75—14.)



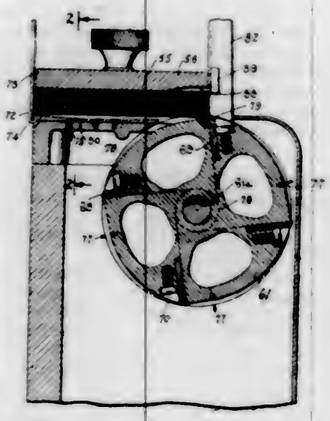
1. Method of reducing ores, which comprises transporting the ore successively in a substantially horizontal direction through preheating, roasting, prereduction and final reduction zones of a channel furnace, subjecting the ore in the final reduction zone to the reducing action of circulating reducing gases, recarbonizing said gases outside the channel furnace in alternately operative recarbonizing furnaces, drawing off the excess of circulating gases and partially combusting it in the momentarily inoperative recarbonizing furnace by a regulated supply of

air for reheating said recarbonizing furnace, supplying the gases formed by said partial combustion to the prereduction zone of the channel furnace and finally combusting them by an excess of air in the roasting zone.

1,680,862. METHOD OF TREATING RUBBER AND PRODUCT. HAROLD E. CUDE, Floral Park, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed May 27, 1927. Serial No. 194,847. 16 Claims. (Cl. 18—52.)

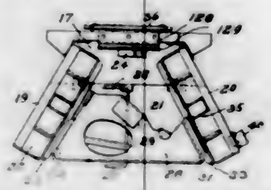
1. The method of treating rubber which comprises, comminuting the rubber, treating it with an organic acid capable of forming a water soluble soap until the mass has assumed a putty-like consistency, and neutralizing the residual acidity with a base capable of forming a water soluble soap.

1,680,863. CARD-FEEDING DEVICE. EUGENE A. FORD, Scarsdale, N. Y., assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Original application filed Nov. 7, 1924, Serial No. 748,347. Divided and this application filed Jan. 12, 1926. Serial No. 80,728. 6 Claims. (Cl. 271—41.)



1. In a machine of the character described, in combination, a card magazine and a rotary feed drum having one or more picker blades, the surface of the drum being cylindrical for a distance behind each picker blade, then gradually decreasing in radius for a distance and then increasing to full diameter at next picker blade.

1,680,864. WARDROBE. JESSE FREEMAN, Pittsburgh, Pa. Filed Feb. 7, 1924. Serial No. 691,098. 3 Claims. (Cl. 312—172.)

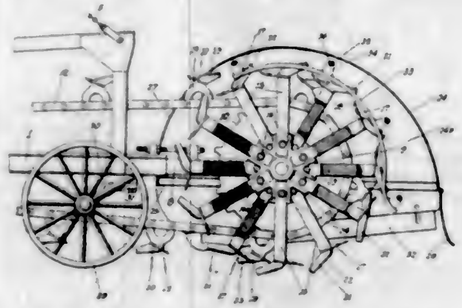


1. The combination in a wardrobe having a container-receiving compartment of relatively small dimensions formed therein, of a container including a support member, a shelf hinged to said member and extending forwardly therefrom, arms hinged to said support engaging said shelf member, said shelf member and said arms being adapted to swing to positions whereby said container fits into said compartment and the movement of said arms is confined by the walls thereof.

1,680,865. METHOD OF NEUTRALIZING ACIDITY OR ALKALINITY OF DECOMPOSED PRODUCT OR PRODUCTS BY GLUTAMIC ACID OR ITS SALTS. MASAO FUJII, Sendagaya-Machi, Toyotamagori, Japan. Filed Aug. 3, 1926, Serial No. 126,925, and in Japan Aug. 7, 1925. 4 Claims. (Cl. 99—11.)

4. In the process of neutralizing products derived from the treatment of proteins and carbohydrates with alkalies, which products contain free alkali, the step which comprises treating the products with an appropriate glutamic acid compound to neutralize the alkali and to form alkali metal salts of glutanic acid.

1,680,866. GROUND-WORKING IMPLEMENT. JOHN E. FUNK, Stockton, Calif., assignor to Funk Soil Pulverizer Company, Stockton, Calif., a Corporation. Filed Sept. 27, 1926. Serial No. 137,884. 6 Claims. (Cl. 97—215.)

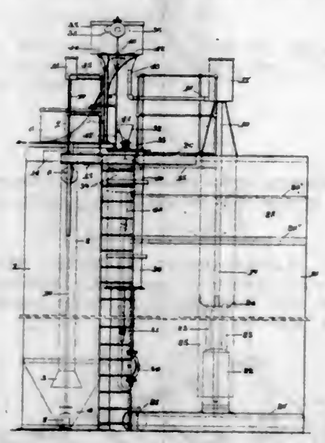


1. In a ground working implement, a ground working unit comprising a central member adapted to be rotated, a plurality of radial and circumferentially spaced arms mounted on said member, and transverse ground engaging blades mounted at the outer ends of the arms and disposed substantially at right angles to the radial lines of the arms, said arms having their inception in a common plane but being alternately offset toward their outer ends in a transverse plane, whereby the blades will be disposed in transversely spaced vertical planes.

1,680,867. WATER PURIFIER. JEAN-BAPTISTE GAIL and NOËL ADAM, Paris, France. Filed Apr. 11, 1921, Serial No. 460,586, and in France Apr. 15, 1920. 3 Claims. (Cl. 210—18.)

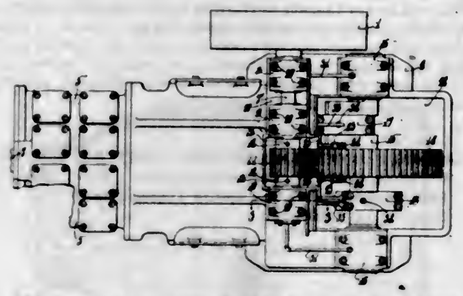
1. A water purifier for effecting a water purification process with the use of lime water and another reagent such as carbonate of soda, comprising in combination, a crude water supply tank, a saturator in which the lime water is prepared, a tank in which the carbonate of soda or other reagent is prepared and a decanting device into which the prepared contents of said saturator and carbonate of soda tank are discharged, conduits connecting said crude water supply tank, said crude water supply tank having orifices controlling said conduits, said orifices having each an interchangeable inlet permitting the delivery of such quantities of water to said several receptacles in the same time, that the quantity delivered to the saturator and carbonate of soda tank will be just sufficient for the preparation of the proper quantity of the reagents to purify the quantity of crude water delivered to said decanting device, said saturator comprising a feeding siphon device, a receiver for receiving periodically a determined quantity of water for conversion into lime water, the frequency of said periods and the amount received at each period being determined by the operation of said siphon device, the latter being located above the saturator and being constructed to entrain a column of air between the successive liquid columns delivered by said siphon, said column of air being carried to the bottom of the saturator by the flow of liquid through said siphon,

traversing the lime in said saturator and producing the turbulence required for effecting the saturation of the water with the lime, said purifier comprising also a lime tank, a central tube located in the saturator and opening near the bottom of the lime saturator, said tube com-



municating with the lime tank, each charge of lime being slaked in said tank during the utilisation of the preceding charge in the saturator, an annular tray located at the upper part of said tube for receiving the saturated water, and a tube leading to the decanting device for carrying off the saturated water.

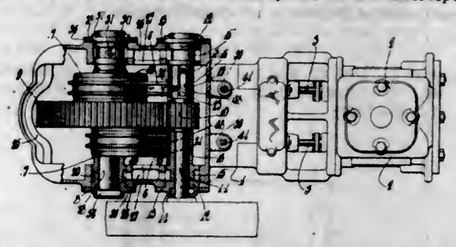
1,680,868. PUMPING MECHANISM. JOHN W. GARDNER, Quincy, Ill., assignor, by mesne assignments, to Gardner-Denver Company, a Corporation of Delaware. Filed May 5, 1923. Serial No. 636,882. 48 Claims. (Cl. 184—13.)



1. In combination, meshing gearing including a pinion and a driven gear, the latter dipping into an oil bath, longitudinally spaced shafts for said gearing, a crosshead including a driving connection operatively connected to said dipping gear and located at one side of the latter, bearings for said shafts on opposite sides of each of said gears including a bearing on the opposite side of said driving connection from said dipping gear, and supplemental means for collecting liquid lubricant carried up by said dipping gear and delivering said collected lubricant to the bearings of both shafts.

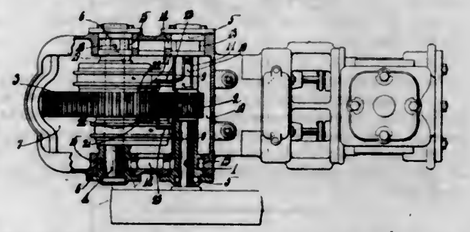
1,680,869. LUBRICATING DEVICE. JOHN W. GARDNER, Quincy, Ill., assignor, by mesne assignments, to Gardner-Denver Company, a Corporation of Delaware. Filed Apr. 17, 1924. Serial No. 707,255. 69 Claims. (Cl. 184—13.)

1. The combination with a plurality of shafts, and gearing rotatable by one of the same and including a gear carried by another and dipping in an oil bath and a meshing non-dipping gear, of stationary means for intercept-



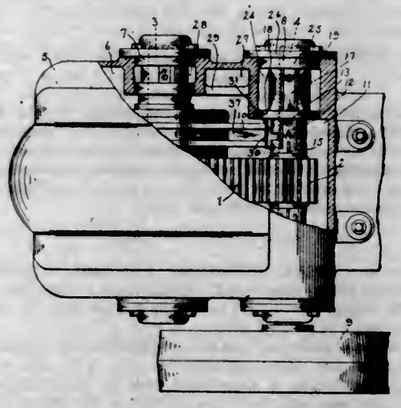
ing lubricant as it is projected laterally by said meshing gear and distributing said intercepted lubricant to the bearings of different shafts.

1,680,870. LUBRICATING MECHANISM. JOHN W. GARDNER, Quincy, Ill., assignor, by mesne assignments, to Gardner-Denver Company, a Corporation of Delaware. Filed July 11, 1924. Serial No. 725,521. 32 Claims. (Cl. 184—13.)



1. The combination with an operating device having a plurality of bearings and meshing gearing journaled therein including a pinion and a gear meshing with the latter and rotating in an oil bath, of lubricating means including a trough and a deflector respectively collecting lubricant carried up on the working face and on a side of said gear as the latter rotates in the same direction, and common means for distributing said collected lubricant to said bearings.

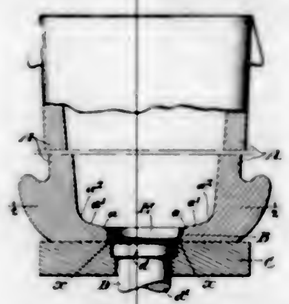
1,680,871. LUBRICATING MECHANISM. JOHN W. GARDNER, Quincy, Ill., assignor, by mesne assignments, to Gardner-Denver Company, a Corporation of Delaware. Filed July 13, 1926. Serial No. 122,237. 43 Claims. (Cl. 184—13.)



1. In a lubricating mechanism, a gear dipping into a lubricant bath, a non-dipping gear meshing therewith, a plurality of bearings for each of said gears, means collect-

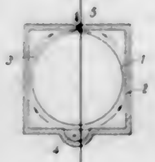
ing lubricant on said non-dipping gear in either direction of rotation of the latter, and means for supplying lubricant collected thereby to all of said bearings.

1,680,872. INGOT MOLD. EMIL GATHMANN, Baltimore, Md. Filed Nov. 29, 1927. Serial No. 236,494. 5 Claims. (Cl. 22—139.)



1. An ingot mold open at the top and having a bottom opening, in combination with a stool having an opening through it of smaller diameter than the bottom opening of the mold, and a sealing plug resting on the ledge or shoulder thus provided on the stool surrounding this opening.

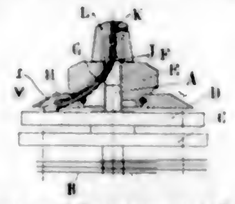
1,680,873. METHOD OF STORING AND TRANSPORTING GASES. PAUL NICOLAS LUCAS-GIRARDVILLE, Paris, France. Filed May 18, 1926, Serial No. 110,021, and in France May 20, 1925. 1 Claim. (Cl. 62—1.)



The method of storing a substance whose boiling point is below 0° C., in a condensed state such as a liquid or solid which comprises enclosing said substance in a heat conducting vessel which is in heat conducting contact with a liquid exposed to atmospheric pressure and maintained in a heat insulated vessel, said liquid having a lower boiling point than the said substance whereby the slow and gradual evaporation of the liquid acts to maintain the said substance in its condensed state.

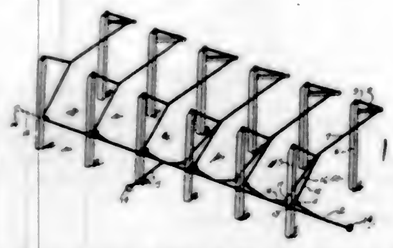
1,680,874. SPEED-REDUCING CONTROL. AUGUSTE EUGENE HENRI GRAVILLON, Paris, France. Filed Oct. 23, 1926, Serial No. 143,771, and in France Nov. 4, 1925. 6 Claims. (Cl. 74—7.)

1. A speed-reducing control for instruments embodying a movable part and a spindle whereto such part is attached, comprising a main knob fixed to said spindle to rotate the same and the movable part at unreduced speed when directly actuated; an auxiliary knob surmounting the main knob; a flexible element attached at one end to the auxiliary knob to be rotated by the same and connected intermediate its ends with the main knob to transmit such rotation thereto; and a friction member on the other end of the transmission element to engage and move



over a stationary part of the instrument and thereby reduce the speed of rotation of the main knob by said transmission element.

1,680,875. RACE STARTING MACHINE. REUBEN GABRIEL GRAY, Canterbury, near Sydney, Australia. Filed Aug. 28, 1925, Serial No. 53,134, and in Australia Sept. 5, 1924. 4 Claims. (Cl. 39—24.)



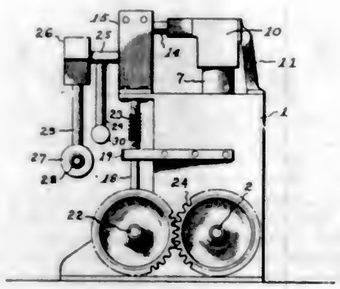
1. Improved race starting machine comprising pairs of posts, the posts of each pair being positioned on opposite sides of the course at each starting position, an arm hinged to one post of each pair and adapted to be maintained normally elevated laterally outwardly thereof, a flexible barrier disposed across the track at each pair of posts with one end connected to the free end of said arm and the other end connected to the opposite post, a branch cord connected to each barrier inwardly of the last named post and led through a pulley thereon and connected outwardly of the posts to a common control cord led through pulleys on each post at that side of the course.

1,680,876. BOTTLE-DISPENSING DEVICE. ALFONSO OLIVERAS GUERRIS, Barcelona, Spain. Filed June 7, 1926, Serial No. 114,356, and in France Aug. 5, 1925. 2 Claims. (Cl. 225—22.)



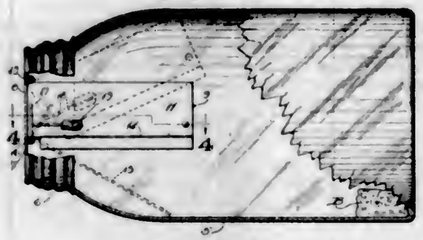
1. An engine of the character described, including a a terminal peripheral valve seat, a nozzle screwed to the conduit and a valve adapted to be loosely housed between the nozzle and the conduit terminal and compressed against the latter by operation of the nozzle to close the same, said valve having side grooving to permit passage of fluid through the nozzle when pressure of the valve is released when operating the nozzle.

1,680,877. FLUID-PRESSURE ENGINE. ROBERT HAMONDS, Cleveland, Ohio. Filed May 1, 1924. Serial No. 710,309. 5 Claims. (Cl. 308—4.)



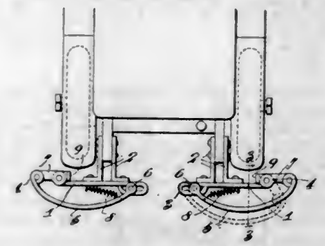
1. An engine of the character described, including a tubular guide sleeve, a cylinder having a free end which projects into the guide sleeve in a spaced relation thereto, and is concentric therewith, a working piston mounted to reciprocate within the cylinder, a tubular guide mounted to reciprocate upon the exterior of the cylinder in the space between the cylinder and the sleeve, and a rigid connection between the tubular guide and the piston.

1,680,878. SELF-SETTING MOUSE AND RAT TRAP. ELBERT HARRIS, Charlottesville, Va. Filed Aug. 11, 1927. Serial No. 212,309. 5 Claims. (Cl. 43—69.)



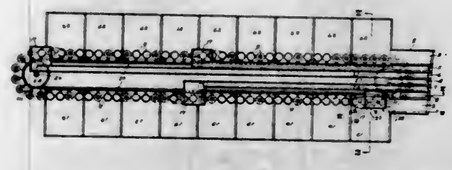
1. In an animal trap, the combination of a main chamber having an opening therein, and an anteroom including a pivotally mounted part within the said main chamber and having an opening in communication with the first said opening and being provided with a trap-door and with means to normally hold the trap-door closed, said means including the pivot on which said pivotally mounted part of the anteroom is mounted, said trap-door being yieldably mounted for depression by an animal thereon and being operably mounted to swing the said pivotally mounted part of the anteroom upward and thereby provide a large opening through which the animal can pass from the anteroom into said main chamber, the weight of said pivotally mounted part being effective to raise said trap-door to its closed position.

1,680,879. AUTOMOBILE BUMPER. WILLIAM E. HART, San Jose, Calif. Original application filed Oct. 7, 1927, Serial No. 224,662, Patent No. 1,670,963, dated May 22, 1928. Divided and this application filed Mar. 24, 1928. Serial No. 264,382. 3 Claims. (Cl. 293—55.)



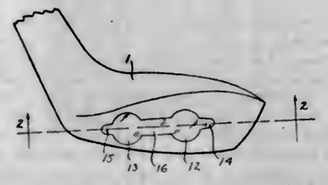
1. In bumpers, a rigid bumper bar having a slot loop at one end and a hinge eye at its other end, means to mount the bar on a support, a yieldable bumper member pin connected at one end in the slot loop and a hinge link connected at its other end to the hinge eye, said hinge link having an abutment lug to engage the rigid bar and limit hinge action in one direction, and a spring to hold the parts to normal position with the abutment lug in engagement with the bumper bar.

1,680,880. SORTING MACHINE. ROBERT C. HARTRAMPF and OTTO B. HARTRAMPF, Hillsboro, Oreg. Filed Aug. 13, 1927. Serial No. 212,750. 27 Claims. (Cl. 209—75.)



1. In a sorting machine, the combination with its frame, an endless flexible carrier, and carrier driving mechanism, of article-containers operatively communicating at spaced intervals with the carrier and extending outwardly from the side thereof, said containers consisting each of a ring, a plurality of depending clip members pivotally mounted on said ring, and means actuated by the straight travel of the carrier for swinging the clip members on their supporting ring for opening and closing the article-container.

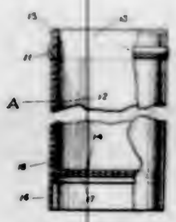
1,680,881. GOLF CLUB. ALLEN HEETER and WILLIAM G. MATTERN, Portsmouth, Ohio, assignors to The Vulcan Last Company, Portsmouth, Ohio, a Corporation of Ohio. Filed May 23, 1927. Serial No. 193,669. 8 Claims. (Cl. 273—77.)



1. In a golf club, a wooden head having converging cavities and a narrow communicating passageway between said

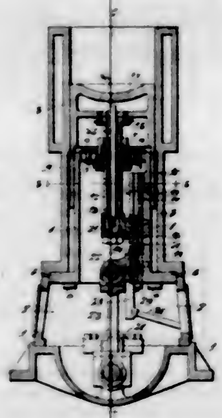
cavities below the surface of the head, and a weighted member inserted therein in molten condition whereby it is interlocked therein.

1,680,882. LINER AND CAN CONSTRUCTION. CARL HOLLEN, Bemidji, Minn. Filed Aug. 2, 1926. Serial No. 126,486. 6 Claims. (Cl. 220—63.)



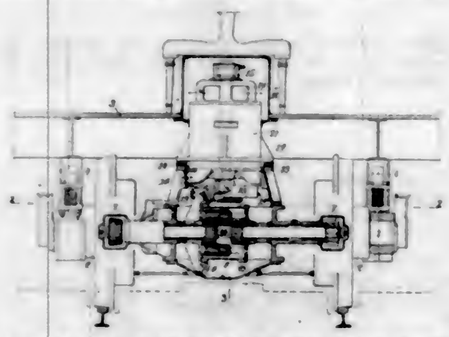
1. A can including an outer reinforcing casing having a tubular straight wall construction, a liner formed of aluminum adapted to fit over the upper edge of the can, and a reinforcing bottom disk frictionally supported spaced from the lower edge of the casing and adapted to protect the bottom of said liner.

1,680,883. INTERNAL-COMBUSTION ENGINE. LEONARD V. HOSFORD, Portland, Oreg. Filed Dec. 13, 1926. Serial No. 154,622. 5 Claims. (Cl. 123—176.)



1. In an internal combustion engine wherein is provided a crank case, a crank shaft, a cylinder secured to the crank case, a stationary piston secured within the cylinder, and a reciprocating piston fitted over said stationary piston within the cylinder; a gland on the head of said stationary piston, a piston rod secured to the head of said reciprocating piston and projecting through said gland into the stationary piston, a channeled guideway mounted within said stationary piston, a sliding head having a guide cooperating with said guideway to hold the head in place to slide along said guideway, means connecting said piston rod to said sliding head, and a connecting rod between said sliding head and crank.

1,680,884. DRIVING AXLE OF THE SINGLE TYPE COMPRISING LOOSE VEHICLE WHEELS MOUNTED UPON STATIONARY AXLES. ALBERT HUGUENIN, Paris, France. Filed Apr. 6, 1926, Serial No. 100,188, and in France Apr. 16, 1925. 9 Claims. (Cl. 105—118.)



1. In an actuating device for the single axles of railroad vehicles, the combination of a stationary vehicle axle, a loose wheel mounted at each end of said axle, a vertical motor disposed at the middle of the said axle, and means for imparting the rotation of the said motor to the said loose wheels through the medium of a differential device.

1,680,885. DRAFT CONNECTION. HOWARD I. INGERSOLL, Pound Ridge, N. Y. Filed Feb. 13, 1925. Serial No. 8,860. 9 Claims. (Cl. 213—72.)



1. In draft mechanism, the combination of a coupler having a butt with tapered undercut lugs, and a yoke having cooperating completely frustro-conical undercut lugs for forming a pivotal connection between said coupler and yoke and preventing spread of parts of the latter.

1,680,886. DEVICE FOR MOUNTING GLASSES ON THE DOORS OF VEHICLES. LOUIS JANOIR, St.-Ouen, France. Filed Nov. 22, 1926, Serial No. 150,079, and in France Nov. 27, 1925. 6 Claims. (Cl. 296—48.)



1. In combination with a vehicle door, a device for mounting a sliding sash, comprising side slides for the sash, a joint device connecting each slide, near its upper part, with the door frame, resilient means interposed between the lower part of each slide and the said door frame so as to move the sash, when it is raised inwardly against the carriage body, abutments on the said door frame for limiting the inward movement of the sash when the door is opened, and means transversely holding the slides at their lower part.

1,680,887. COLLAPSIBLE TIRE RIM. MERTON M. KINNEY and GEORGE D. KINNEY, Duluth, Minn. Filed July 10, 1925. Serial No. 42,718. 2 Claims. (Cl. 301—32.)



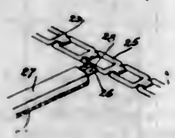
2. A collapsible tire rim for tires comprising sections hinged together, a releasing section including a pair of members hinged to said first mentioned sections, one of said members having a long and short tongue, one positioned inside of the other, said long tongue having an opening therein and the other of said releasing sections having a recess and lug which are adapted to lock the short and long tongue respectively of said releasing sections together in locking position.

1,680,888. BINDING MACHINE. JOHN J. KLUCK, Macklin, Saskatchewan, Canada. Filed Feb. 19, 1926, Serial No. 89,466, and in Canada Jan. 25, 1926. 1 Claim. (Cl. 198—174.)



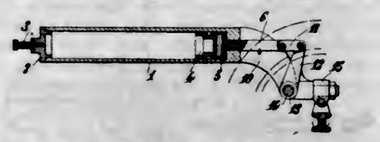
In a binding machine, a platform presenting a lengthwise corrugated grain receiving pan, a lower inclined elevator presenting a lengthwise corrugated pan continuous with the former pan, continuous driven side chains associated with the pans, spaced collectors carried by the side chains and presenting upstanding flanges and downwardly extending spaced fingers complementary to the corrugations and adapted to sweep the corrugations in the movement of the chains.

1,680,889. BINDING MACHINE. JOHN J. KLUCK, Macklin, Saskatchewan, Canada. Filed Feb. 19, 1926, Serial No. 89,467, and in Canada Jan. 25, 1926. 2 Claims. (Cl. 198—168.)



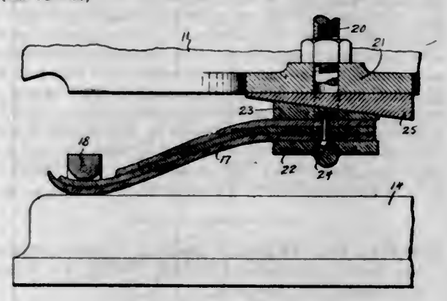
1. A binding machine having a horizontal lying smooth faced platform pan, an inclined smooth faced elevator pan continuous with the platform pan and an endless driven conveyor associated with the pans and presenting side chains and spaced cross slats carried at intervals by the chains, the said cross slats being provided on their under sides each with a strip of resilient material adapted to sweep the upper faces of the pans in the movement of the chains.

1,680,890. PNEUMATIC SUSPENSION DEVICE FOR VEHICLES. EUGENE JULES LAUGAUDIN, Paris, France. Filed June 7, 1926, Serial No. 114,277, and in France June 13, 1925. 3 Claims. (Cl. 267—65.)



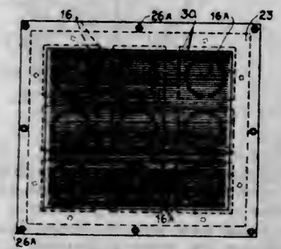
1. A pneumatic suspension device for vehicles, including aircraft comprising a removable and interchangeable cylinder or bottle, supporting means for same, a pump valve fitted to the cylinder enabling the device to work with gas under pressure, a piston rod and means for transmitting to the piston rod displacements of the vehicle wheels caused by road irregularities and the like in combination with a loose piston in said cylinder, a second piston in front of the loose piston and connected to the piston rod, and an oily fluid substance in the space between the two pistons forming a gas tight joint.

1,680,891. PRESS COMPENSATOR. JAMES CAMROD LEDBETTER, New York, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Aug. 14, 1925. Serial No. 50,149. 5 Claims. (Cl. 68—9.)



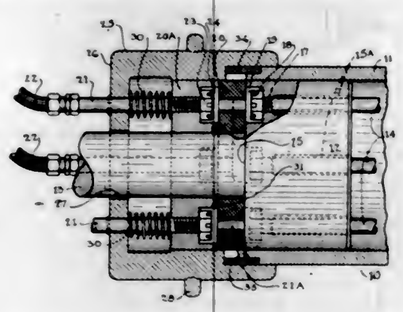
1. A pressing machine comprising in combination, cooperating pressing jaw parts adapted to open and close on the work, a press lever part for attachment with one jaw, a leaf spring interposed between the lever and jaw, anchor means attaching the ends of the spring to one part, anchor means attaching the center of the spring to the other part, and adjusting means cooperating with the spring and one of the parts to vary the distance therebetween and thereby to vary the distance between the lever and jaw to regulate the closing pressure between the jaws.

1,680,892. PULP SUCTION DIE. JAMES FLEMING LOW, Toronto, Ontario, Canada. Filed Mar. 21, 1927. Serial No. 177,086. 6 Claims. (Cl. 92—57.)



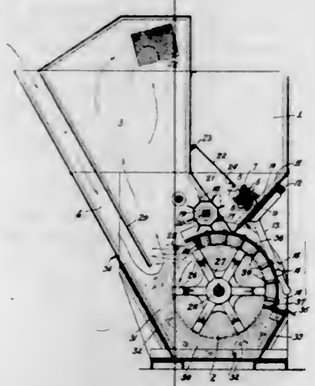
3. In pulp suction dies, a grid of closely set bars forming gravity and suction draining passages and having contiguous bars recessed in the upper sides for retaining the solid pulp and forming it into the desired shapes.

1,680,893. VACUUM-CONTROL MECHANISM FOR PULP-MOLDING MACHINES AND THE LIKE. JAMES FLEMING LOW, Toronto, Ontario, Canada. Filed Oct. 31, 1927. Serial No. 230,021. 7 Claims. (Cl. 92—57.)



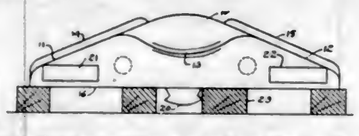
1. In a vacuum control mechanism for pulp molding machines and the like, a rotatable shaft formed with a shoulder to provide a reduced end for journalling in a bearing, a non-rotatable casing mounted adjacent the reduced end of said shaft and forming therewith a cylinder-like compartment, passages in said shaft for connection with a functional part of the machine mounting said shaft and opening into said compartment, a non-rotatable washer slidable in said compartment, a disc of soft material removably secured to one face of said washer and engaging said shoulder, said disc having ports therethrough spaced for registering with said passages and depressed to connect a number of said ports, pipes carried by said washer in alignment with said ports and projecting through the casing for operative connection with apparatus, and compressed springs urging said disc towards said shoulder.

1,680,894. PULVERIZER. HENRY G. LYKKEN, Minneapolis, Minn. Filed Aug. 16, 1924. Serial No. 732,436. 15 Claims. (Cl. 83—11.)



1. In a device of the character disclosed, a crushing device adapted to crush lump material and comprising means for holding the material to be crushed, said means including a rotary breaker having tangentially extending projections provided with radial faces whereby the projections may engage and act upon the lumps of material to break and crush the same, a plate located in spaced relation to the breaker member whereby the material may be pressed against said plate by the projections of the breaker member for crushing the material.

1,680,895. CAR REPLACER. ARMAND LYMBURNER, Verdun, Quebec, Canada, assignor of one-half to Joseph J. Driscoll, Chicago, Ill. Filed June 30, 1927. Serial No. 202,721. 1 Claim. (Cl. 104—265.)

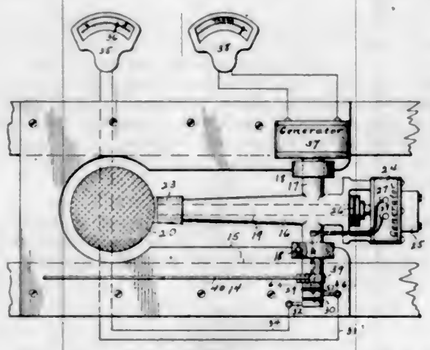


A car replacer, comprising a body having inclined ways and a downwardly tapered front wall from end to end and adapted to fit close to the rail base, rigid blocks extending outwardly from the body towards either end and a central downwardly extending stop member adapted to engage the tie.

1,680,896. MANUFACTURE OF FIBER BOARD. ROBERT A. MARR, Norfolk, Va. Filed Oct. 27, 1922, Serial No. 597,419. Renewed Jan. 19, 1928. 4 Claims. (Cl. 92—61.)

1. A process of making fiber board which comprises running into box sieve, an amount of a liquid pulp containing a large amount of aqueous liquid and a small amount of pulped digested cane material, such amount of liquid pulp containing a predetermined weight of said cane material, removing in the liquid state the major part of the aqueous liquid in such pulp, by suction, encasing the residual semi-dried pulp material in a fabric, and also encasing the same in a fine wire mesh exterior casing, and supporting the package on a rigid perforated plate, and applying a uniform mechanical pressure on the top of said package to squeeze out more of the aqueous liquid, until a rigid wet pulp board is produced, placing such rigid wet board between non-flexible perforated members and clamping the same together, and drying the board while held between said members under sufficient pressure to prevent substantial warping, whereby a rigid flat board structure is produced.

1,680,897. PRACTICE DEVICE FOR GOLFERS. JESSE VANCE MATTESON, Jr., Santa Rosa, Calif. Filed Aug. 22, 1927. Serial No. 214,593. 11 Claims. (Cl. 265—20.)

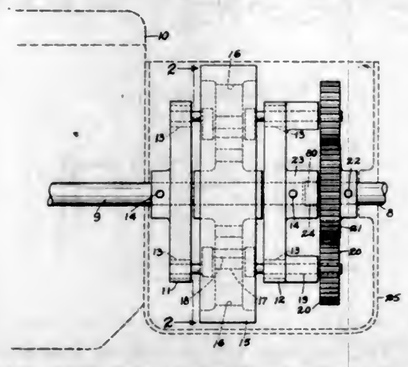


1. A device of the character described, comprising a golf ball mounted for rotation about its own axis, and for bodily travel about an axis at right angles to its own axis, meters for registering the movement of said ball with respect to each of said axes and means operatively connecting said ball with said meters.

1,680,898. PROCESS FOR MAKING BAKED-FOOD PRODUCTS. JEAN MATTI, Pully, Switzerland. Filed Sept. 5, 1925, Serial No. 54,812, and in Switzerland Mar. 30, 1925. 1 Claim. (Cl. 99—10.)

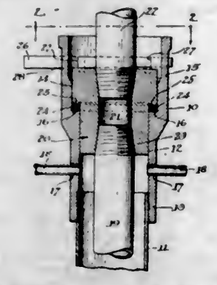
The process of making bread and the like, which comprises placing the dough in a mold, covering the mold, placing the dough in an oven and baking the same, the cover being provided with an opening for permitting the escape of vapors, said opening being plugged as soon as the baking has been completed so as to obtain a hermetically sealed package.

1,680,899. POWER-TRANSMISSION DEVICE. WILLIAM B. MCCALL, Cincinnati, Ohio. Filed Aug. 9, 1927. Serial No. 211,824. 1 Claim. (Cl. 74—34.)



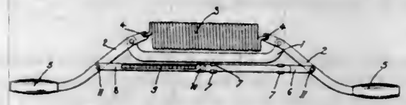
In a device of the class described, the combination with a drive shaft rotatable by means of a power source, a plate fixedly secured upon the drive shaft, a bearing in the plate, an oscillatable slotted member rotatably mounted upon the drive shaft adjacent the plate, a rotatable cam shaft provided with an eccentric and a pinion gear, said shaft being rotatably received in the bearing in the plate and said eccentric being received in the slot in the oscillatable member whereby rotation of said shaft and eccentric serves to oscillate the oscillatable member relative to the plate, a driven shaft in axial alignment with the drive shaft and adapted for independent rotation, a gear fixedly mounted upon the driven shaft and engaging the pinion gear on the cam shaft whereby relative movement of the drive shaft and driven shaft may actuate the gears, cam shaft, and eccentric for oscillating the oscillatable member for compensating for the difference in speed of rotation between the drive shaft and the driven shaft.

1,680,900. CASING HEAD. JOHN W. MCQUAID, Fillmore, Calif. Filed Aug. 9, 1926. Serial No. 128,234. 1 Claim. (Cl. 166—14.)



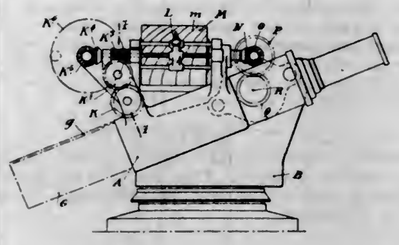
A casing head, comprising a cylindrical head member adapted to be secured to the upper end of a casing, said member having an enlarged bore at its upper end forming an annular, horizontally disposed seat therein; a complementary, cylindrical plug member insertable in the head member, for supporting a tubing centrally of the casing, said plug being adapted to fit closely in the upper, enlarged end of the head member and having a reduced lower end adapted to fit closely in the head below the annular seat, said reduced lower end forming a complementary, annular horizontally disposed shoulder on the plug to engage the seat; a relatively soft packing member interposed between the seat and shoulder; apertures in opposite sides of the upper portion of the head member on each side of its center, said apertures being positioned to extend above and below the normal level of the top face of the plug; and wedge members adapted to extend through each pair of apertures and across the top of the plug on either side of its center, to removably secure the plug in place on the seat.

1,680,901. EXTENSIBLE DEVICE WITH POWER INDICATOR FOR PHYSICAL CULTURE. LUDWIG MEYER, Paris, France. Filed May 18, 1926, Serial No. 109,982, and in Germany May 25, 1925. 4 Claims. (Cl. 265—21.)



1. A combined physical culture exercising device and power indicator comprising a bar, handle levers pivoted adjacent their inner ends to the ends of the bar and the handle portions being arranged in substantially the plane of the bar, spring means connecting the short ends of the levers normally maintaining the handle portions of the bars in substantial alignment, and adjustable power indicating means operably connected with each of the handle portions of the levers.

1,680,902. SETTING DEVICE FOR TIME FUSES. NICOLAS EMILIEN METHLIN, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint Stock Company of France. Filed Apr. 12, 1927, Serial No. 183,161, and in France May 19, 1926. 16 Claims. (Cl. 89—1.10.)



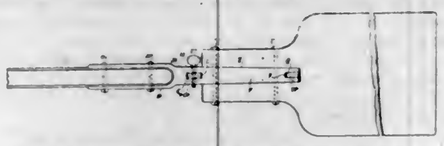
1. In apparatus of the class described, the combination of a body, a member displaceable therein and shaped to fit the nose of a projectile, said member comprising a rotatable part adapted to engage the fuse-setting mechanism of said projectile, and means operatively connecting said body and rotatable part to cause rotation of the latter on displacement of said member.

1,680,903. DIRIGIBLE SPOTLIGHT FOR VEHICLES. LESTER H. MILES, Los Angeles, Calif. Filed May 4, 1926. Serial No. 106,594. 5 Claims. (Cl. 240—61.)



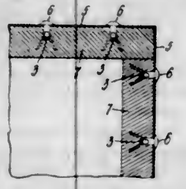
1. In a device of the class described a pair of spot lights, means to pivotally mount said spot lights, an operating member for each of said spot lights, a motor, an eccentric member driven by said motor, links connected to said eccentric member, and means operatively connecting each operating member to one of said links.

1,680,904. BAKER'S PEEL. ROBERT ALBERT MINSTERMAN, Elmira, N. Y. Filed June 29, 1927. Serial No. 202,353. 6 Claims. (Cl. 107—67.)



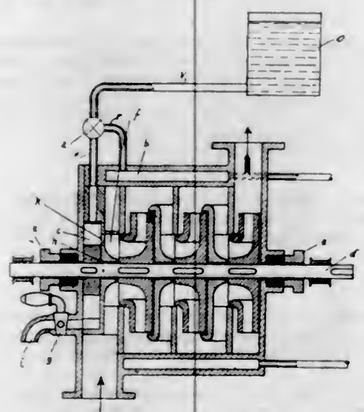
1. In a baker's peel, a slotted peel board, a plurality of pins extending across said slot, a handle, and a clamp for connecting said peel board to said handle comprising a pair of clamping members adapted to fit within said slot and clamp between them said pins, and means for securing said clamp to said handle.

1,680,905. METHOD OF AND MEANS FOR SEALING RECEPTACLES. GEORGE A. MOWER, London, England, assignor to Judson L. Thomson Manufacturing Co., Waltham, Mass., a Corporation of Massachusetts. Filed May 28, 1927, Serial No. 195,119, and in Great Britain June 8, 1926. 3 Claims. (Cl. 217—66.)



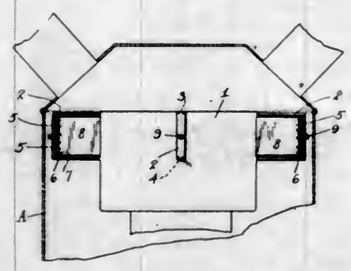
3. A receptacle, a metal band extending over the top and sides of said receptacle, and means for sealing the receptacle comprising a sheet metal disc rigidly embedded in the material of the receptacle in alignment with a hole provided in said metal band and extending partly through said material, and a bifurcated rivet projecting through said hole with its legs spread on opposite sides of said spreader, the diameter of said spreader being approximately the same as the shank portion of the rivet.

1,680,906. CENTRIFUGAL PUMP. FRITZ NEUMANN, Nuremberg, Germany. Filed Nov. 9, 1923, Serial No. 673,815, and in Germany Nov. 13, 1922. 4 Claims. (Cl. 103—113.)



1. The combination with a centrifugal fire engine pump, a water ring sealed air pump for priming said centrifugal pump, a driving motor operatively connected to said pumps for driving said pumps and a container for containing cooling water for said driving motor, of a pipe connected to said water ring pump and said cooling water container, for enabling hot water to be supplied from said container to said water ring pump for forming the liquid ring in the latter, as set forth.

1,680,907. HOT-AIR-FURNACE ATTACHMENT. ELMER R. NEVEL, Lock Haven, Pa. Filed Mar. 6, 1928. Serial No. 259,498. 7 Claims. (Cl. 126—99.)

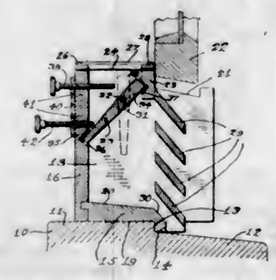


1. The combination with the radiating drum of a hot air furnace, of a plurality of brackets carried by the drum and extending radially therefrom, a sectional ring encircling the drum and confined within the brackets adjacent the outer ends thereof, a series of radiating fins arranged radially with respect to the drum, the inner edges of the fins engaging the drum, and means for urging the ring inwardly against the outer edges of the fins to maintain the latter rigidly with respect to the drum.

1,680,908. METHOD OF PREPARING ARTIFICIAL PETROLEUM FROM RUBBER SCRAP OR VULCANIZED-RUBBER WASTE. HIROTARO NISHIDA and KEIICHI SHIMADA, Kiriu, Japan. Filed Jan. 28, 1927, Serial No. 164,369, and in Japan Dec. 24, 1925. 3 Claims. (Cl. 260—169.)

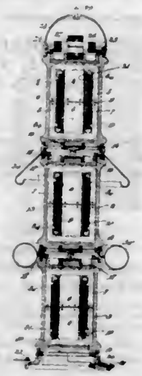
1. A method of preparing a petroleum like material which comprises destructively distilling the hydrocarbons of rubber in the presence of a naturally occurring bleaching earth.

1,680,909. WINDOW VENTILATOR. CHARLES F. PARENT, Torrington, Conn. Filed Mar. 8, 1927. Serial No. 173,671. 2 Claims. (Cl. 98—95.)



1. In a window ventilator, a casing adapted to rest on a window sill below a raised window sash, said casing having an air inlet and an air outlet, and a pivoted shutter in said casing responsive to wind-pressure for automatically swinging inwardly to automatically reduce the air passage therethrough, and means for adjusting the limit of said swing.

1,680,910. EARTHING CHOKING COIL OR VOLTAGE TRANSFORMER FOR HIGH VOLTAGES. EMIL PFIFFNER, Fribourg, Switzerland. Filed June 9, 1925. Serial No. 35,997. 10 Claims. (Cl. 175—356.)



1. A voltage transformer comprising in combination a plurality of sections, each section having a magnetic circuit provided with an air gap, a primary winding on each section and a compensating winding on each section connected in series with said primary winding, said compensating winding of each section being connected with the windings of the adjacent sections.

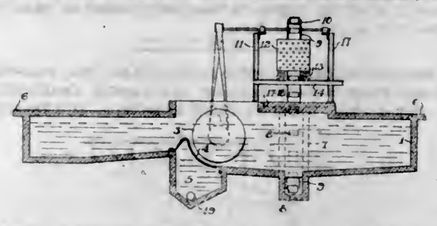
1,680,911. BRAKE SHOE. MALCOLM LOUGHEAD, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a Corporation of California. Filed Mar. 17, 1927. Serial No. 175,956. 3 Claims. (Cl. 188—250.)



2. A stamped brake shoe comprising a pair of pressed metal plates secured to one another and fashioned to provide a contiguous brake lining supporting surface, one end of said shoe being formed to receive a pin for pivotally mounting the shoe, said plates being bent laterally in opposite directions to form reenforcing means lying in a surface perpendicular to the plane of the body of the shoe and gradually increasing in area from the free end to the pivotal end of the shoe.

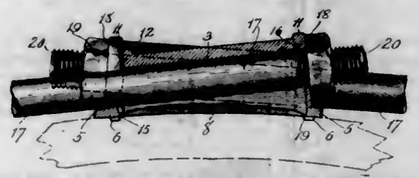
1,680,912. APPARATUS FOR MAKING PULP OR THE LIKE. HOMER D. MARTINDALE, Middletown, Ohio. Filed Feb. 17, 1927. Serial No. 168,912. 6 Claims. (Cl. 92—24.)

1. A pulp reduction apparatus including in combination, a stock beater, a channel extended across the bottom to an adjacent wall of the beater tub and upwardly outside the wall, and acting to receive foreign materials separated by gravity from stock in process of reduction in the beater, and



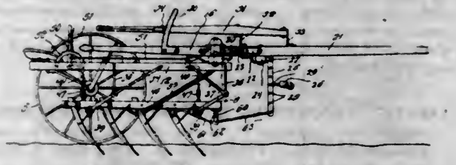
a series of devices, as buckets, operably connected for traversing the channel for removing the accumulation of said material therein.

1,680,913. SILO OR TANK LUG. HUGO C. RASSMANN, Beaver Dam, Wis., assignor to F. Rassmann Manufacturing Company, Beaver Dam, Wis. Filed Sept. 3, 1925. Serial No. 54,303. 2 Claims. (Cl. 217—95.)



1. A lug of the character described made with diagonal grooves having unobstructed side walls, said lug also having end portions which are beveled and have holes, whereby said lug may be cast and said holes formed without the use of cores and whereby the separation of the lug from the mold will be facilitated.

1,680,914. CULTIVATOR. GEORGE W. RAY, Forty Fort, Pa. Filed Mar. 3, 1927. Serial No. 172,413. 5 Claims. (Cl. 97—237.)



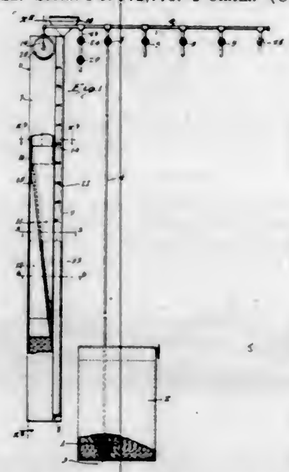
1. A cultivator of the class described, comprising a wheeled frame, bracket rods depending from the frame, U-shaped hangers having their extremities pivotally engaged in the bracket rods, beams attached to the bights of the hangers, cultivating elements on the beams, bell crank levers on the frame, means connecting the bell crank levers with the beams, means connecting the bell crank levers together, means for operating the bell crank levers, springs attached to the beams and to the frame so as to urge the cultivating elements on the beams into engagement with the ground and to tend to lift the beams after they have been lifted a predetermined distance.

1,680,915. METHOD OF TREATING RUBBER-FIBER WASTE MATERIAL. REED P. ROSE, Jackson Heights, N. Y., assignor to The Mechanical Rubber Company, Cleveland, Ohio, a Corporation of New Jersey. Filed Jan. 7, 1928. Serial No. 245,276. 6 Claims. (Cl. 18—52.)

6. The method of treating rubber-fiber waste material which comprises mechanically working the broken up material in the presence of about 10 parts of a soap forming fatty acid until the rubber component has assumed a plastic putty-like consistency, adding 12–15 parts of caustic

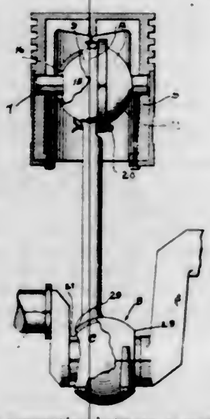
soda in aqueous solution for each 100 parts of rubber and continuing the working, and finally beating the product in an aqueous medium containing an alkali and a protective colloid until the rubber is completely removed from the fiber and in dispersed form.

1,680,916. LIQUID-LEVEL INDICATOR. S Q SHANNON and HERMAN PAGE RANDALL, Los Angeles, Calif. Filed July 5, 1922. Serial No. 572,778. 1 Claim. (Cl. 73—31.)



In a gage, two liquid containing chambers interconnected at their lower ends, one constituting an indicating chamber, an inlet through which gas may be admitted for forcing the liquid down the other chamber so as to cause the liquid to rise in the indicating chamber, two relatively movable overlapping members disposed in said non-indicating chamber, said members being reversly tapered so as to leave between them throughout their combined length and in each position a channel of uniform cross-sectional area for occupation by liquid in said column and being reversely movable into different positions, in each of which said cross-sectional area for occupation by liquid is different from each other position of the members, and means for so relatively moving the members.

1,680,917. CONNECTING ROD AND ITS COMPONENT BEARINGS. ALFRED C. SLOAN, Philadelphia, Pa., and STEPHEN M. SLOAN, Vineland, N. J. Filed Sept. 3, 1925. Serial No. 54,341. 6 Claims. (Cl. 74—108.)



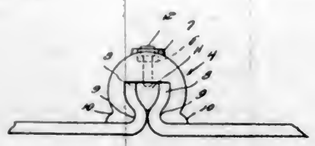
1. A universal connection between a connecting rod and piston, comprising a wrist pin having a spherical member mounted thereon, a similar shaped housing enclosing the spherical member and formed in complemental sections, said sections adapted for threaded engagement and longitudinal adjustment with respect to the wrist pin, and means for locking the sections in adjusted position.

1,680,918. TRACK FOR MINIATURE ELECTRIC TRAINS. WALTER E. THAYER, Lockport, N. Y. Filed Nov. 22, 1927. Serial No. 235,004. 7 Claims. (Cl. 238—10.)



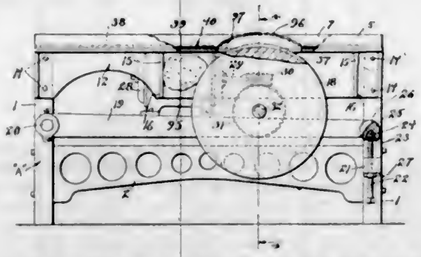
1. In a miniature railway, ties having transversely extending kerfs, and a rail having a web extending down into said kerfs and a pin extending through one end of each tie and through the web of the rail.

1,680,919. BELT CLAMP. BASCOM LEE WALKUP, Mexia, Tex. Filed Dec. 2, 1927. Serial No. 237,249. 1 Claim. (Cl. 24—31.)



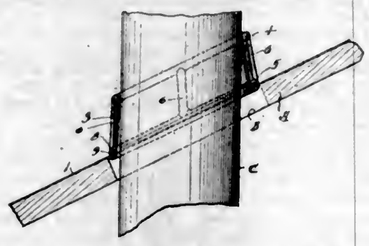
As a new product of manufacture, a belt clamp of the class described comprising an elongated casting provided on one side with an open ended channel, having spaced opposed arcuate walls and an inner flat wall, the entrance portion of the channel being restricted by the presence of inwardly projecting shoulders, the belt ends being adapted to extend between the shoulders, to be forced against said arcuate walls with their extremities resting in contact with said flat walls, an elongated wedge bar located in said channel, and bolts threaded through said casting and engageable with said bar, whereby to permit the bar to be forced between the belt ends to force the belt ends into engagement with the walls of the channel and said shoulders.

1,680,920. GLASS-GRINDING MACHINE. KARL ALBERT WEBER, Los Angeles, Calif. Filed Apr. 6, 1925. Serial No. 20,986. 10 Claims. (Cl. 51—76.)



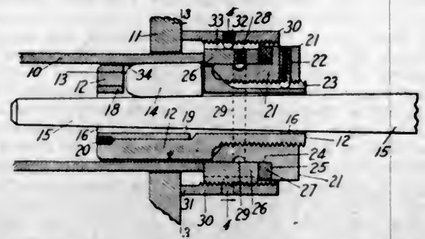
1. In a machine for grinding an edge of a plate of glass, the combination of a supporting runway, a grooved mat of resilient material secured on the runway for guiding and supporting the plate of glass on edge in substantially vertical position, means for maintaining the plate of glass in substantially vertical position, means for feeding the plate of glass longitudinally along the runway support, and grinding means located substantially on a level with the said supporting runway and onto which the plate of glass moves and by which it is partially supported on edge while being ground.

1,680,921. ADJUSTABLE ROOF FLANGE. DAVID WEINBERG, Rockaway Beach, N. Y., assignor to Paramount Roof Flange Corporation, a Corporation of New York. Filed May 13, 1927. Serial No. 191,098. 5 Claims. (Cl. 285—31.)



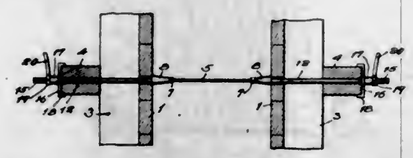
2. As a new article of manufacture, an adjustable roof flange comprising a flange plate having an orifice therein and a collar of ductile material interlocking with the edge of the orifice and formed with spaced annular and cross reinforcing beads.

1,680,922. TUBE AND FLUE EXPANDER. GUSTAV WIEDEKE, Dayton, Ohio, assignor to Gustav Wiedeke Company, Dayton, Ohio, a Firm. Filed Nov. 29, 1926. Serial No. 151,383. 14 Claims. (Cl. 153—82.)



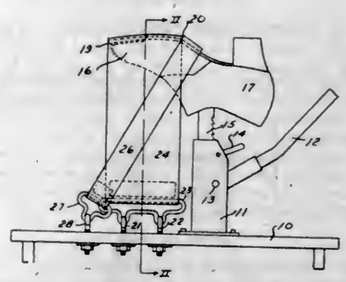
1. In a device for expanding a tube in a tube sheet and comprising expanding rollers and a mandrel for actuating the same, a frame having slots to receive said rollers and having a longitudinal bore to receive said mandrel, a guard supported by and rotatable about the outer portion of said frame and arranged to engage the tube sheet, and means controlled by the normal operation of said device for positioning the tube with relation to the tube sheet, said means comprising a part adjustable with relation to said guard to determine the position of said tube.

1,680,923. CONCRETE-FORM CONSTRUCTION OR THE LIKE. CHESTER I. WILLIAMS, Grand Rapids, Mich. Filed Feb. 26, 1925. Serial No. 11,754. 9 Claims. (Cl. 25—131.)



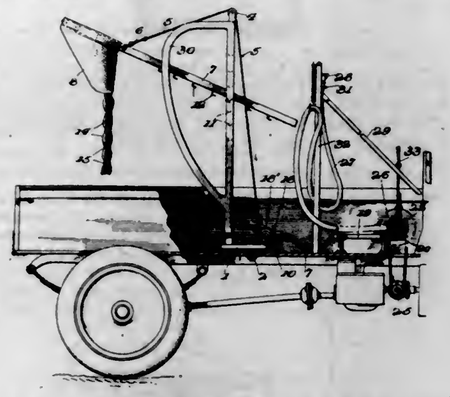
1. In apparatus of the character described and in combination, form members disposed in opposed relation, a rod, and means associated with one end of the rod for holding one of the form members against displacement relative to the rod, the other end of the rod terminating between the forms, a nut threaded upon said other end of the rod, means including a second rod projecting through the other form member and threaded upon said other end of the first rod for holding said form members against displacement in a direction away from each other, and means enclosing the threaded connection between the rods and cooperating with said nut for holding the forms in spaced relation.

1,680,924. SOLE-CEMENTING MACHINE. FRANK EMERY WILLIAMS, Kansas City, Mo. Filed Mar. 9, 1927. Serial No. 174,035. 1 Claim. (Cl. 12—133.)



In a sole cementing machine, a base element, a shoe last adjustably positionable from said base; belting detachably connected to the base and for looping over a shoe when carried by the last: and a jack intermediate the last and base for actuating said last to stretch said belting.

1,680,925. FRUIT GATHERER. CECIL W. WOOD, Hedgesville, W. Va. Filed Dec. 29, 1923. Serial No. 683,466. 6 Claims. (Cl. 193—7.)



6. In a fruit gatherer, the combination of a mast, a pair of independently adjustable bars each fulcrumed on said mast, a hopper supported by said bars between the same and means moving said hopper in a vertical plane.

1,680,926. PROCESS FOR PRODUCING DIASTATIC PRODUCT. KEIZO WOOYENAKA, Tokyo, Japan, and TATSUO OKOCHI, Clifton, N. J., assignors to Takamine Ferment Company, New York, N. Y., a Corporation of Virginia. Filed Jan. 9, 1923. Serial No. 611,653. 4 Claims. (Cl. 195—20.)

1. The process of manufacturing diastatic product, which consists in impregnating a culture medium that is suitable for growing fungi with an aqueous solution of sodium salicylate and sodium fluoride in a closed receptacle, steaming the medium to effect sterilization thereof, liberating the acid radicals of said antiseptics by adding a dilute mineral acid, inoculating the mass with aspergillus oryzae spores and subjecting same to incubating conditions.

1,680,927. AUTOMOBILE BUMPER BRACKET. GEORGE W. YANSS, Bridgeport, Conn., assignor to American Chain Company, Inc., a Corporation of New York. Filed Nov. 30, 1926. Serial No. 151,616. 5 Claims. (Cl. 293—55.)



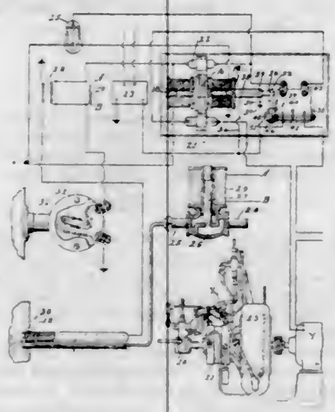
1. A bumper bracket for automobiles of the type in which the frame is provided with a horn having a socket formed thereon containing a fabric cushion connected with a vehicle spring, said bracket comprising a base having an upright portion with clamping means thereon for a bumper member, said upright having a reinforcing member connecting said base and said upright, and means for connecting said bracket to said socket.

1,680,928. AUTOMOBILE BUMPER BRACKET. GEORGE W. YANSS, Bridgeport, Conn., assignor to American Chain Company, Inc., a Corporation of New York. Filed Nov. 30, 1926. Serial No. 151,617. 4 Claims. (Cl. 293—55.)



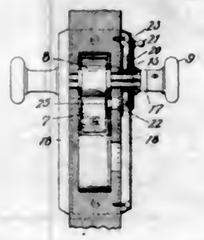
1. A bumper bracket for automobiles of the type in which the frame has a curved horn connected with a vehicle spring by a flexible fabric shackle bolted to the free end of said horn, said bracket comprising a base shaped to conform with and rest on the upper curved surface of said horn, and means for connecting said base to said horn in co-operation with said spring shackle bolt.

1,680,929. SAFETY CONTROL MECHANISM FOR FUEL ATOMIZERS. LOYD I. ALDRICH, Peoria, Ill., assignor to Preferred Oil Burners, Inc., Peoria, Ill., a Corporation of Illinois. Filed July 5, 1924. Serial No. 724,542. 1 Claim. (Cl. 158—28.)



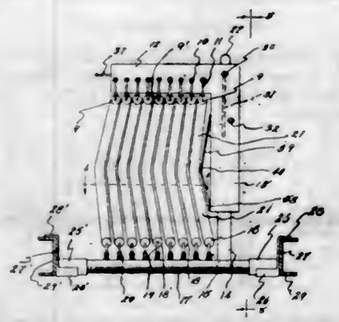
In an apparatus of the class described, the combination of a burner, motor operated means for supplying a fuel mixture to the burner, a thermostat for controlling the operation of the motor operated means, a transformer having a coil in the secondary circuit for heating said thermostat, and a burner igniting circuit shunted around said heating coil so that closing of the latter circuit diminishes the current in the heating coil of the thermostat and permits a slow motor stopping movement of said thermostat.

1,680,930. COMBINED LOCK AND LATCH. KATSUTARO ANDO, Minamikatsushika-Gun, Tokyo-Fu, Japan. Filed June 23, 1927. Serial No. 201,003. 1 Claim. (Cl. 70—20.)



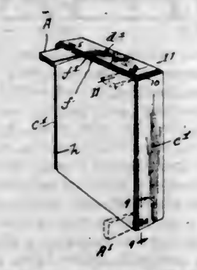
In combination, a combined lock and latch adapted to fit in the mortise in a door and escutcheon plates secured to the opposite sides of the door, a bushing for the knob spindle in the inner side of the door, a latching bolt having an L-shaped bar fixed at one end of its leg, an operating plate with a thumb piece mounted on said bushing through its central opening and interposed between a shoulder of said bushing and said escutcheon plate, a sector board with twin sectors having a sloped side edge respectively mounted on said bushing through its central opening in the inner side of the escutcheon plate and connected to said operating plate by means of screws so that the same may be turned under action of said operating plate, a latching pin normally in its retracted position under tension of a spiral spring adapted to be forced out against the spring in engagement with said sector board and one side wall of the casing of said lock having an opening formed therein, through which opening one end of said latching pin may be extended to engage with an L-shaped bar fixed at one end of the leg of said latching bolt, so that the latching bolt may be held against inward movement.

1,680,931. BOILER. JOHN H. BAKER, Detroit, Mich. Filed Jan. 18, 1926. Serial No. 81,993. 2 Claims. (Cl. 122—333.)



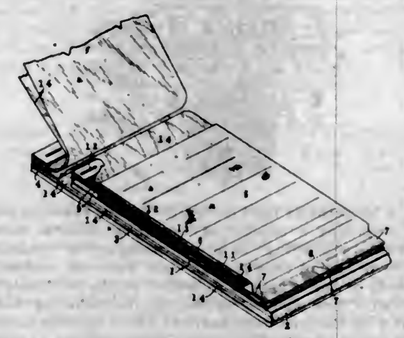
1. A boiler of the class described comprising an upper and lower set of headers, each set comprising a plurality of parallel extending headers in spaced relation to each other, the headers in the upper set being spaced apart a less distance than the headers in the lower set; a plurality of bow shaped tubes connecting the corresponding headers in the upper and lower sets, the tubes connecting adjacent headers being in staggered relation; an L-shaped dome having its base extending transversely of the upper set of said headers adjacent one end thereof; means for connecting said end of said headers in communcation with the leg of said dome; a U-shaped dome positioned transversely over the upper set of said headers adjacent the opposite end thereof, the leg of said U-shaped dome adjacent said L-shaped dome being angularly turned and extending in parallel relation to the leg of said L-shaped dome; means for connecting the base of said L-shaped dome with said leg of said U-shaped dome; a reduced portion on the lower end of the leg of said L-shaped dome; a reduced portion on the lower end of said angularly turned leg of said U-shaped dome; a transversely extending pipe in communication with said reduced portions; a pair of parallel extending pipes, each in communication with said transversely extending pipe; and means for connecting said parallel extending pipes in communication with the headers of said lower set.

1,680,932. SUIT BOX. HERBERT R. BLISS, Niagara Falls, N. Y., assignor to Bliss Containers, Inc., Niagara Falls, N. Y., a Corporation of New York. Filed Nov. 5, 1925. Serial No. 66,973. 5 Claims. (Cl. 229—47.)



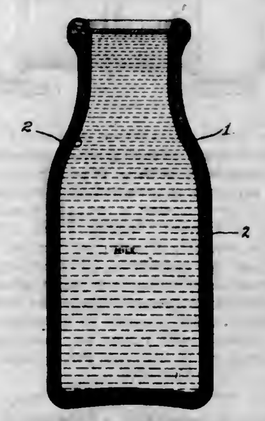
1. A suit box of the character described, comprising body and cover members which telescope together, the body member being provided with folded-over corner flaps and the cover member having corner flaps and telescoping over the body member and sealed thereto by driving stitches through the corner flaps of the cover member and the corner flaps of the body member said stitches also serving to set up the cover member.

1,680,933. MANIFOLDING SALES BOOK. EDWARD KIRBY BOTTLE, Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario. Filed July 5, 1922. Serial No. 572,776. 1 Claim. (Cl. 282—24.)



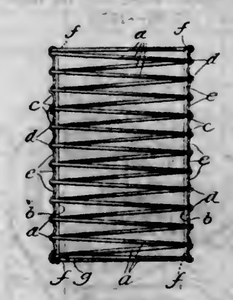
In a manifolding book of the character described, in combination, connected sets of three record leaves, the leaves of each set superposable relative to each other, with interposition of transfer material, to produce three inscribed leaves at one writing, the upper two of said relatively superposed leaves of each set being separate from and displaceable from each other and of manifold paper, one of said two being of tissue paper and the other of opaque paper; the lowermost of the three leaves of each set being a combined record leaf and stop leaf directly pasted at one end to said opaque leaf.

1,680,934. COMPOSITION FOR PRESERVING FOOD PRODUCTS. HILLHOUSE BUEL, Seattle, Wash., assignor of one-half to William P. Hammond, Scarsdale, N. Y. Filed Sept. 8, 1921. Serial No. 499,240. 6 Claims. (Cl. 99—8.)



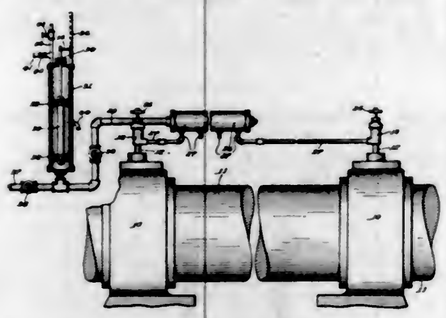
6. A composition of matter comprising a cellulosic material of relatively high strength and resistance, deposited from a solution of ethyl acetyl cellulose in acetone, containing a plasticising agent of light oil, said oil imparting no objectionable taste or odor to food in contact therewith, the deposited material being subsequently fused.

1,680,935. REENFORCEMENT FOR CONCRETE COLUMNS. ARTHUR A. CLEMENT, Chicago, Ill., assignor to American Wire Fence Company, Chicago, Ill., a Corporation. Filed Sept. 27, 1919, Serial No. 326,988. Renewed July 5, 1927. 2 Claims. (Cl. 72—76.)



1. A reenforcement for concrete columns, comprising a wire spiral and a series of longitudinal spacers each comprising two wires extending respectively within and outside of the coils of the spiral and connected together between the coils, at least one of the wires of each spacer having seats for the coils and hooks engaging the end coils, certain of said hooks engaging the two end coils to hold the ends of the spiral substantially at right angles to its axis.

1,680,936. LUBRICATING SYSTEM. JOHN F. CULP, Philadelphia, Pa., assignor to Ideal Lubricator Company, Philadelphia, Pa., a Corporation of Delaware. Filed Feb. 4, 1926. Serial No. 85,948. 2 Claims. (Cl. 184—7.)

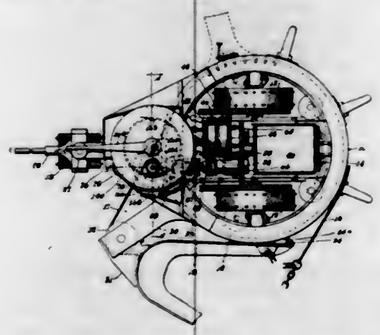


2. A grease lubricating system comprising a plurality of grease supply pipes normally open to establish communication respectively with a plurality of bearings, a valve in each supply pipe provided with a relatively long grease supply groove having a cross-sectional area sufficiently large to prevent clogging under any expelling pressure, means operable at will for varying the grease feeding length of the respective valve grooves, a grease reservoir common to said supply pipes, a plunger in said reservoir for expelling grease therefrom, and means to place said plunger under pressure to cause grease to feed continuously through said valves in quantities predeterminedly proportioned by the set groove lengths of said valves.

1,680,937. TREATMENT OF ALLOY STEEL. ARTHUR C. DAVIDSON, Bronxville, N. Y., assignor to D. Co., Inc., New York, N. Y., a Corporation of New York. Filed Oct. 28, 1919. Serial No. 333,966. 2 Claims. (Cl. 75—45.)

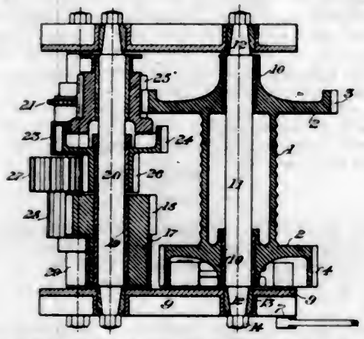
1. Process of producing high speed steel consisting in melting iron, chromium and tungsten, scavenging to remove oxides, etc., adding cobalt, scavenging, adding vanadium in less than 50% excess over the desired analysis, adding an explosive material, and casting at above 3200° F.

1,680,938. APPARATUS FOR HANDLING LOOSE MATERIALS. CHARLES E. DAVIS, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 15, 1925. Serial No. 43,671. 6 Claims. (Cl. 37—115.)



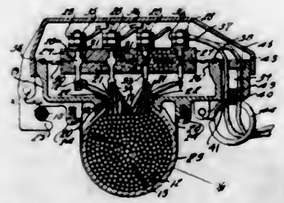
1. An apparatus for handling loose material comprising a scraper having a head and tail rope, a movable head frame having a curved bearing surface adapted to provide lateral support for said scraper while gathering its load, power devices on said head frame, and a control line operable by said power devices and extending about fixed guide means into engagement with the head rope of the scraper.

1,680,939. STUMP-PULLING ENGINE. ERNEST EASTHOPE, Vancouver, British Columbia, Canada. Filed Aug. 17, 1926. Serial No. 129,772. 1 Claim. (Cl. 254—187.)



In a power driven stump puller device the combination comprising, side frames entirely supporting the said device, the said frames being secured to and united by cross-stays, a winding drum revolving upon one of said cross-stays, a ratchet wheel integral with said drum, a pawl engaging said ratchet wheel, an eccentric revolving on a second cross-stay and having a spur wheel integral therewith, a strap for the eccentric provided with an extension forming the said pawl, the spur wheel integral with said eccentric engaging a pinion on a third cross-stay, a spur wheel integral with the last said pinion and engaging a pinion on the second cross-stay, the last said pinion being integral with a spur wheel and carrying an internally positioned claw clutch, a pinion on the second said stay and provided with a clutch face corresponding to that on the last said spur wheel, a second spur wheel integral with the said drum and engaging the last named pinion on the second cross-stay, a second pinion on the said third cross-stay meshing with the spur wheel on the second cross-stay having the claw clutch, the second said pinion on the said third cross-stay being integral with a sprocket wheel driven by the power unit.

1,680,940. SLEEVE TERMINAL BOX FOR ELECTRIC CABLES. WILLIAM W. EMMONS, Newark, N. J. Filed Jan. 18, 1923. Serial No. 613,536. 2 Claims. (Cl. 247—14.)

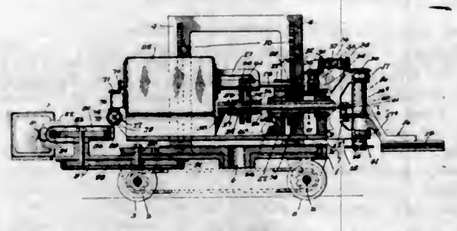


1. A hermetically tight closure for a cable sleeve terminal box comprising a member of insulating material having electrical conducting members permanently embedded therein to extend therethrough, said electrical conducting members having a portion embedded within the insulating material of form adapted for effecting the anchoring thereof in place in the insulating material, and a metallic member permanently embedded in the insulating member to extend from the edges of the insulating member, the extending portion of the metallic member being secured to the terminal box by an hermetic fusion joint.

1,680,941. PROCESS OF COLORING MINERAL MATTER. HARRY C. FISHER, Cincinnati, Ohio, assignor to The Richardson Company, Lockland, Ohio, a Corporation of Ohio. Filed Nov. 25, 1922. Serial No. 603,370. 10 Claims. (Cl. 91—70.)

1. That process of coloring mineral matter which consists in forming a ferrite at the surface thereof said ferrite composed of materials extremely applied to the mineral matter.

1,680,942. MINING MACHINE. WALTER S. GRAY, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 31, 1924. Serial No. 759,068. 5 Claims. (Cl. 262—28.)



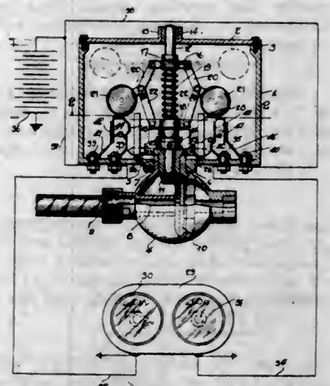
1. In a mining machine, the combination of a turntable, a sub-frame vertically adjustable with respect thereto, a swinging frame mounted for pivotal movement on a horizontal axis at one end of said sub-frame, a supporting member carried by said swinging frame adapted for pivotal movement on a vertical axis, a cutter chain sprocket on said supporting member, a motor on said sub-frame, means whereby said motor may actuate said cutter chain sprocket in all permissible positions of said swinging frame and supporting member, means whereby said motor may selectively control certain of the pivotal movements of said swinging frame and supporting member, and other means whereby said motor may selectively control the vertical adjustment of the entire apparatus with respect to the wheeled support.

1,680,943. PROCESS OF EXTRACTING FATS FROM VEGETABLE MATTER. IVAN S. HOCKER, Philadelphia, Pa., assignor to The Hocker Corporation, Philadelphia, Pa., a Corporation of Delaware. Filed Jan. 26, 1924. Serial No. 688,872. 2 Claims. (Cl. 87—6.)

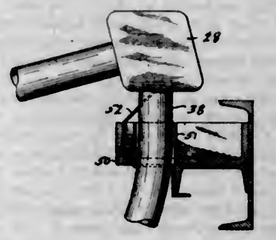
2. The process of extracting fat from cacao beans which consists in finely dividing the cacao beans, mixing with water and heating to bring water soluble constituents into solution and gelatinize the starch therein, then treating the mixture at a suitable temperature with a diastatic ferment to saccharify the starch and to liberate the fat, thereafter adding an alcoholic fermenting agent after reducing the temperature of the mixture below the thermal death point of such fermenting agent, whereby gases are formed which cause coalescence of the fat globules in the emulsion and carry them to the surface of the mixture, and subsequently removing the fat therefrom.

1,680,944. AUTOMATIC STOP AND SLOW LIGHT SIGNAL. GABRIEL E. HOGLUND, Seattle, Wash. Filed May 4, 1925. Serial No. 27,964. 2 Claims. (Cl. 200—80.)

1. In a vehicle signaling system, a plurality of housings arranged for intercommunication, a shaft and a pinion carried by the shaft revolubly mounted in one of the housings, means arranged in the other of said housings and cooperating with the pinion to drive the shaft, a governor mechanism mounted on the shaft within one of the housings, switches arranged in one of the housings, operating means movable longitudinally of the shaft and responsive to the movement of the governor mechanism, said operating means including pivotally mounted switch operating arms yielding in their upward movement by the governor mechanism to avoid operating the switches, and means to hold the arms against pivotal play in their downward movement to thereby cause the arms to operate the switches, whereby in that movement of the governor responsive to speed increase the switches are free of operation while such switches are operated in that movement of the governor responsive to speed decrease.

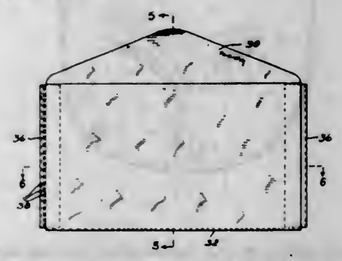


1,680,945. BOILER FURNACE. WILLIAM A. JONES, West New Brighton, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed June 16, 1923. Serial No. 645,779. 2 Claims. (Cl. 122—235.)



1. In combination, a boiler having horizontally inclined water tubes connected by water compartments, a water back in the furnace, a drip pan connected to the furnace setting and located beneath one of the water compartments, and a pipe connecting the water back with the water compartment, said pipe extending through an opening in said drip pan and being free to move vertically therein, said drip pan having a thimble loosely surrounding the pipe to prevent leakage of water from the pan through the opening for the pipe.

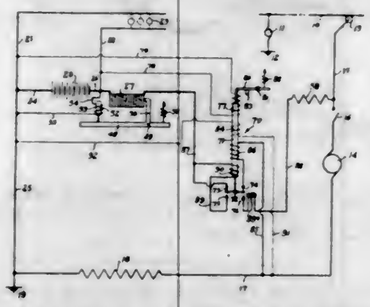
1,680,946. ENVELOPE. LORSER KALINA, Brooklyn, N. Y. Filed May 13, 1926. Serial No. 108,771. 4 Claims. (Cl. 229—85.)



1. An envelope comprising a body portion of paper having open end edges, and folded inserts secured to the

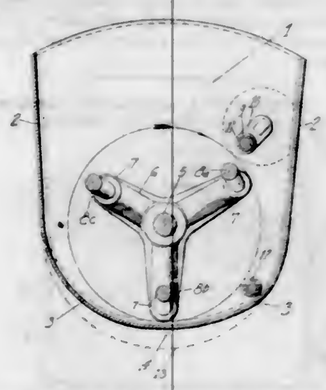
inner faces of the body with the edges of the body exposed to close said open edges, said folded inserts being of relatively tougher paper than the body of the envelope, and having a center fold projecting beyond their respective edges of the envelope to provide protection for the exposed edges of the body.

1,680,947. STORAGE-BATTERY-CHARGING SYSTEM. WILLIAM T. KNIESZNER, New York, N. Y., assignor to The Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed Mar. 19, 1925. Serial No. 16,639. 21 Claims. (Cl. 171—313.)



1. In apparatus of the character described, in combination, a circuit adapted to be connected to a source of current and having included therein a translating device and a storage battery connected so that when said device receives current from said source said battery will also receive current therefrom, an auxiliary circuit adapted to be connected to said source of current and arranged to supply charging curent to said battey independently of said first-menioned circuit, means adapted alternatively to close either of said battery charging circuits, and means for cutting down the flow of current to said battery as the latter is substantially fully charged, said means being effective in either of said circuits and adapted when effective in said first-mentioned circuit to cut down the flow of current to said battery without affecting the supply of current to said translating device from said source.

1,680,948. DOUGH MIXER. FRANK X. LAUTERBUR and EDWARD J. LAUTERBUR, Sidney, Ohio. Filed Apr. 12, 1927. Serial No. 183,201. 4 Claims. (Cl. 259—109.)

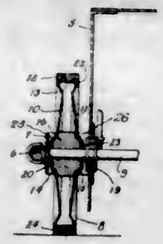


3. In combination with a horizontally rotatable bar type agitator, a mixing bowl having a U shaped bottom with the lowest portion of the bowl bottom relatively flattened out and curved along a line formed on a greater radius than that of the adjoining portions of the bowl bottom, with yielding diverting means mounted in one of the aforenoted adjoining portions of the bowl bottom.

1,680,949. DEINKING PAPER. ALAN R. LUKENS, Wyoming, Ohio, assignor to The Richardson Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 22, 1925. Serial No. 38,934. 6 Claims. (Cl. 92—13.)

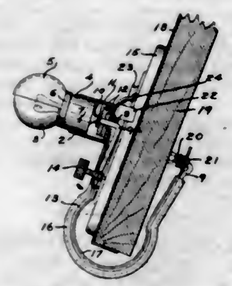
1. That process of removing coloring matter from fibrous pulp which consists in soaking the fibrous pulp in an alkaline solution in the presence of a sulfonic acid compound, and then washing the pulp with water without the use of super-added soap or fatty acid.

1,680,950. WOOD-CENTER SWEEPER WHEEL. FRANK C. MASON, Streator, Ill., assignor to Metal Stampings Corporation, Streator, Ill., a Corporation of Illinois. Filed July 9, 1925. Serial No. 42,355. 12 Claims. (Cl. 301—63.)



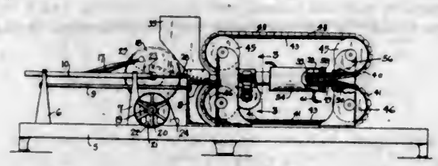
1. A wheel comprising a pair of disks joined together at their peripheries to form the rim of the wheel and each having an axially disposed circular recess, a bearing member having circular end portions, the outer edges of which are chamfered and disposed in the recess of the respective disks, said chamfered edges being effective to cause said bearing to be substantially self-centering between the disks.

1,680,951. LAMP SUPPORT. WILLARD L. MORRISON, Melrose, Mass. Filed May 28, 1925. Serial No. 33,329. 2 Claims. (Cl. 240—8.16.)



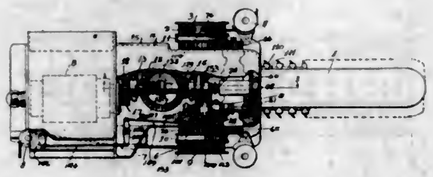
1. A support adapted for attachment of an electric lamp to the dash board of an automobile, comprising, a U-shaped metal support having longitudinally recessed arms resiliently biased toward each other and against the opposite sides of the dash board, a lamp socket carried by the upper end of one of said arms, a terminal carried by the upper end of the other of said arms, a conductor connecting said socket and said terminal, said conductor lying within the arm recesses and being insulated from said support, and means for grounding said support through the dash board.

1,680,952. CORK PACKING AND FORMING MACHINE. ARTHUR F. MULLER, Glendale, N. Y. Filed Mar. 19, 1924. Serial No. 700,206. 9 Claims. (Cl. 18—17.)



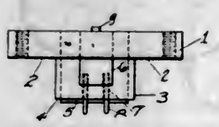
1. In a cork packing machine, a plurality of chains, the links of which when brought together form a tubular mold, radially disposed teeth on said links, and gears for engaging the teeth of said links to advance the mold.

1,680,953. MINING MACHINE. THOMAS E. PRAY, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 16, 1925, Serial No. 69,228. Renewed Sept. 15, 1926. 22 Claims. (Cl. 262—30.)



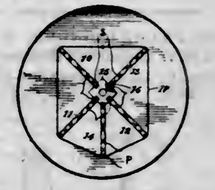
1. In a mining machine, a frame, a cutter bar extending forwardly from said frame and having a cutter chain mounted thereon, a motor at the rear end of said frame, a longitudinal shaft disposed above said cutter bar and connected with said motor, feed operating mechanism mounted on said frame forwardly of said motor, a planetary gear reduction device mounted concentrically with said longitudinal shaft and operatively connected with said feed operating mechanism for driving the same at reduced speed, a driving sprocket for said cutter chain disposed on a vertical axis between said planetary gear and said motor, and gearing connections between said longitudinal shaft and said driving sprocket.

1,680,954. MECHANISM FOR MAKING BATTERY-BOX HANDLES. OLIVER O. RIESER, Oak Park, Ill., assignor to The Richardson Company, Lockland, Ohio, a Corporation of Ohio. Filed June 18, 1926. Serial No. 116,995. 3 Claims. (Cl. 18—17.)



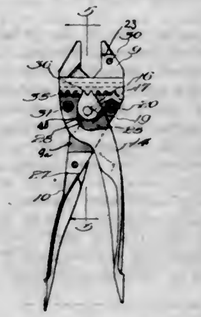
1. Mechanism for molding battery boxes comprising a stripper plate having holes therein adjacent top walls of a molded box, and male dies shaped so as to slide within said holes, said dies shaped and of sufficient length so as to form handle sockets in side walls of a battery box.

1,680,955. INDUCTANCE. FRANK W. SICKLES, Springfield, Mass. Filed Apr. 15, 1926. Serial No. 102,343. 11 Claims. (Cl. 175—359.)



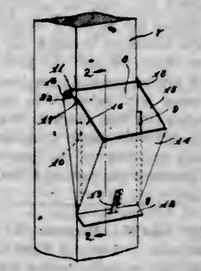
1. An inductance comprising the combination of a series of thin cellular spirally wound coils arranged radially around a common axis with inter-connecting fields some part of one or more of such coils being the primary winding and the remainder the secondary winding.

1,680,956. WRENCH. EDWARD H. SIMONSEN, Chicago, Ill., assignor to R. M. Eddy Foundry Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 5, 1925. Serial No. 6,919. 3 Claims. (Cl. 81—86.)



1. A wrench comprising a relatively fixed jaw member, a movable jaw, a rack bar on the latter sliding in the fixed jaw member and a lever pivoted to the fixed jaw member and having teeth engaging the rack, the teeth on the rack and lever being so inclined transversely thereof that the pressure of the lever teeth on the rack in the operation of closing the wrench tends to force the rack against the side of the fixed jaw member.

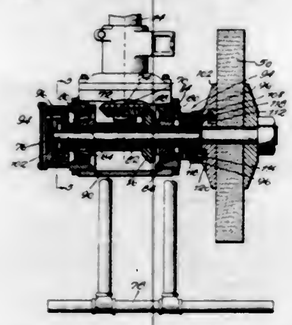
1,680,957. REFUSE CONTAINER. JULES H. STEAN, Marquette, Mich. Filed Sept. 20, 1926. Serial No. 136,431. 6 Claims. (Cl. 220—18.)



1. A refuse container of the class described comprising: a supporting portion adapted for mounting on a suitable support; a receptacle forming portion swingably mounted

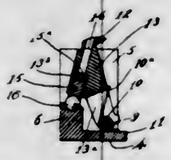
on said supporting portion; and means for mounting said receptacle forming portion on said supporting portion and for simultaneously clamping said supporting portion on said support.

1,680,958. SWING-FRAME GRINDER. FRANK E. STRATTON, Edgewood, R. I., assignor to Diamond Machine Company, Providence, R. I., a Corporation of Rhode Island. Filed Oct. 21, 1925. Serial No. 63,881. 11 Claims. (Cl. 51—99.)



1. In a grinding machine of the swing frame type, a support, a cylindrical frame, fulcruming connecting means rotatably and longitudinally adjustably mounted on said frame, means to universally attach said connecting means to said support, a motor mounted on said frame on one side of said fulcruming means, a grinding wheel mounted on said frame on the opposite side of said fulcruming means, power transmitting mechanism connecting said motor and grinding wheel, a counter weight longitudinally and rotatably adjustably mounted on said frame, an operating handle attached to said frame and shock absorbing means mounted in said power transmitting mechanism to prevent the transmission of vibration from the grinding wheel to the operating handle.

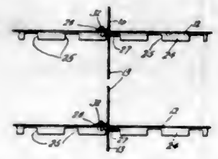
1,680,959. PRINTING-PLATE HOLDER. EMIL E. THIEL, Cincinnati, Ohio, assignor to The Printing Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 22, 1924. Serial No. 733,643. 5 Claims. (Cl. 101—385.)



1. A printing element holder comprising a carrier adapted to enter an orifice in a bed on which a plate is to be mounted, a jaw, means for movably supporting the jaw in the carrier, a screw available through the jaw for turning thereof, said screw threaded into the jaw, and an element at the end of said screw, providing a bearing for the adjustment of the screw with relation to the carrier, means for pivoting the jaw in the carrier, the pivot point of the jaw being in a different angle from the bearing of the screw, and a spring to preserve the jaw in position with the screw thereof bearing against said bearing element.

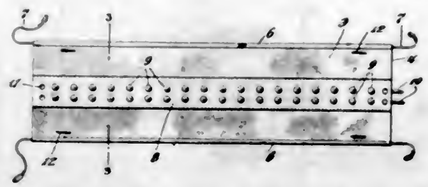
1,680,960. SHELF RACK. WALTER N. VANCE, Chicago, Heights, Ill., assignor to Durand Steel Locker Company, Chicago Heights, Ill., a Corporation of Illinois. Filed Apr. 2, 1926. Serial No. 99,229. 4 Claims. (Cl. 211—135.)

1. A shelf rack comprising spaced uprights having side and rear closures therefor and a front member partially closing the front of said rack and forming a bin front, a plurality of horizontal shelf members, dividing the shelf rack and supported by the uprights, said shelf members having permanently fastened on their under sides angle shaped bars extending parallel to the bin front and having depending portions formed with spaced notches, and a desired number of dividing plates, each dividing plate having



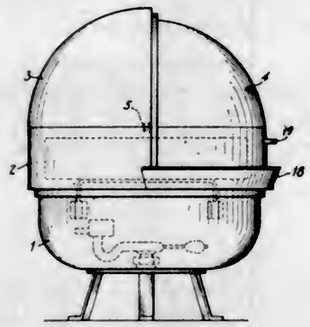
in its upper end a laterally bent flange adapted to fit in the notched portion of a strip and having a portion at its lower end adapted for detachable connection with the upper surface of the next lower shelf member whereby the dividing strip in any particular horizontal compartment may be removed without disturbing a superior compartment.

1,680,961. TIRE COVERING. JAMES H. VAN PUTTEN and JAMES H. SHARPE, New York, N. Y. Filed Aug. 5, 1926. Serial No. 127,256. 1 Claim. (Cl. 152—16.)



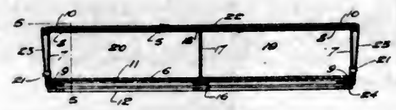
A tire covering comprising a leather tread portion, and strips independent of each other secured to the opposite longitudinal edges of said tread portion, said strips being of fabric and having means for securing the ends thereof together on a vehicle wheel.

1,680,962. DISHWASHER. HERMAN F. VOSHARDT, Chicago, Ill., assignor to Friedley-Voshardt Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 24, 1927. Serial No. 170,464. 5 Claims. (Cl. 220—32.)



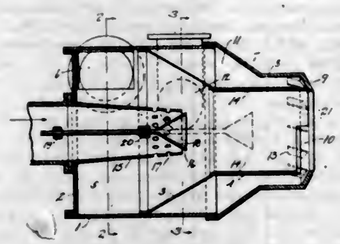
1. A liquid receiving receptacle comprising a body portion and a hood-like portion thereabove, a concavo-convex closure member similar in contour to the hooded portion and telescoping therewithin, pivoted mountings for said closure, and a trough-like member receiving the lower edge portion of the closure when in closed position whereby overflowing of liquid is prevented.

1,680,963. CUSHION. MUERK E. WHITE, High Point, N. C., assignor of one-half to George W. Fleming, Clinton, N. C. Filed Dec. 1, 1925. Serial No. 72,501. 5 Claims. (Cl. 155—179.)



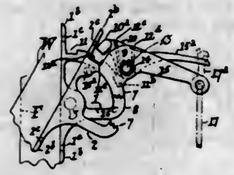
1. A seat cushion of the class specified, comprising a chambered body to receive air under pressure and having a top and bottom spaced apart and formed of a composite rubber fabric, a rubber web extending from the opposite end and side edges of the top and secured to the latter by vulcanization and forming a flush joint with the said composite top, the rubber web extending around and secured to the bottom of the body, a fabric strip attached to the end and side portions of the top of the body, and an upholstering covering comprising top and side and end pieces having their edges fastened to said strip, the end and side portions of the upholstering covering also being extended under the bottom of the body.

1,680,964. PULVERIZED-FUEL MIXER. ALGOT A. WICKLAND, Chicago, Ill. Filed Dec. 26, 1923. Serial No. 682,614. 11 Claims. (Cl. 110—104.)



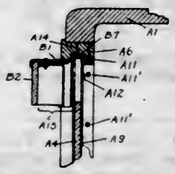
3. In a pulverized fuel and air mixer, a tubular shell and a sleeve within said shell and therewith forming a fuel and air mixing chamber and a secondary air chamber in coaxial contiguous and cooperative relation to said first chamber, said chambers having substantially co-axial outlets and tangential inlets entering in opposite directions.

1,680,965. ADJUSTABLE FASTENER FOR HINGED STRUCTURES. JOHN SIDNEY WILLIAMS, Brisbane, Queensland, Australia. Filed June 22, 1926, Serial No. 117,702, and in Australia Sept. 21, 1925. 1 Claim. (Cl. 268—109.)



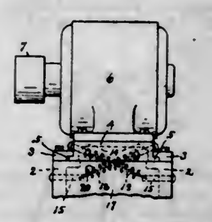
A window fastener of the character described, the combination of a fixture attachable to the window frame comprising a notched quadrant projecting outwardly and provided with an upright pivot post disposed at the center of the segment a plate carried by the window and pivoted on said post, said plate having an arm carrying a pivot pin and a notch to move into register with the notches of the sector, a spring actuated dog mounted on the last named pivot pin and having one end urged in the direction of the notches of the quadrant, and a cord at the other end of the dog and loose in the arm of the said plate whereby the operation of pulling on the cord will first release the dog from the quadrant and then swing the window into open position.

1,680,966. VENTILATOR FOR CLOSED VEHICLES. DANIEL M. WINANS, Binghamton, N. Y., assignor to The Brewer-Titchener Corporation, Cortland, N. Y., a Corporation of New York. Filed Oct. 3, 1927. Serial No. 223,557. 10 Claims. (Cl. 98—2.)



1. In a ventilator comprising a sheet metal frame adapted to supportably mount a pane having a substantially straight edge, said frame being provided with a ledge portion and an angularly disposed stop flange therefor adapted to overlap a marginal pane face adjacent to said edge, clamping strip means including wedge adjusting means therefor, said strip being angle-shape in profile with one of its legs disposed to align with a ledge portion while its other leg is disposed to substantially align with said stop flange and grip the opposite complementary pane face portion, and clamp lug means carried by said ledge and cooperating with said wedge to thrust said strip toward said flange for pane clamping purposes.

1,680,967. MOTOR MOUNTING. HENRY J. BERRY, Detroit, Mich., assignor of one-third to Carl W. Floss, Detroit, Mich. Filed Mar. 5, 1927. Serial No. 173,082. 4 Claims. (Cl. 308—11.)

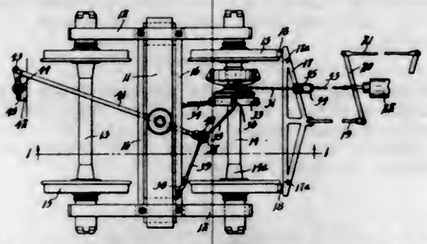


4. In a mounting for an electric machine provided with a belt pulley, the combination of a support embodying parallel guides, a base for the electric machine slidable on the support between the guides, springs positioned transversely between the base and support to resist the turning action of the belt on the base, and means to slide the base to tension the belt.

1,680,968. RAILWAY-CAR BRAKE. CLARK A. BRENNAN, Minneapolis, Minn. Filed Dec. 13, 1926. Serial No. 154,404. 4 Claims. (Cl. 188—146.)

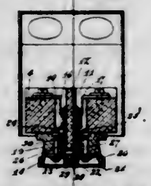
1. The combination with a railway car and the axle and brake rigging thereof, of a brake actuating mechanism, comprising a fixed clutch member secured to said axle, a sliding clutch member journaled on said axle for sliding engagement wtih said fixed member, said sliding clutch member having a drum formed thereon, a flexible member connected at one end to said drum and at its other end to said brake rigging, said flexible member being adapted to operate said brake rigging to set the brakes as said flexible member is wound on said drum, a shifting head for shifting said

sliding clutch member, a toggle arm connected at one end to said shifting head, a toggle arm having one end pivoted to a fixed bracket, said toggle arms being connected together



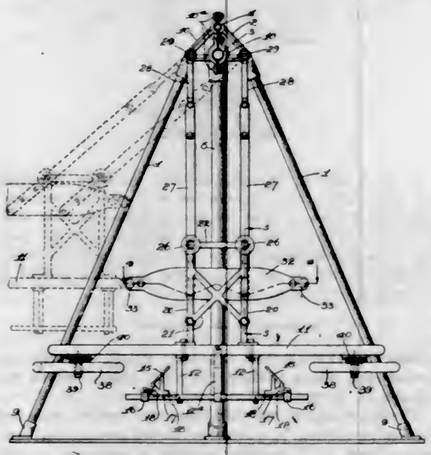
by a universal joint, an actuating rod pivoted to said universal joint and means connected to said actuating rod for moving the same.

1,680,969. CUT-OUT AND PLUG. WILLIAM P. BRIGGS, New Bedford, Mass. Filed Aug. 4, 1926. Serial No. 127,131. 2 Claims. (Cl. 200—133.)



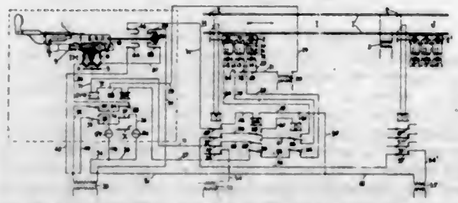
1. In a cut-out a body formed with a pair of passage-ways extending entirely therethrough axially, terminals extending in said passage-ways from the inner ends thereof, a division member between said terminals, said division member projecting beyond the outer surface of said body for forming a projection and a raised portion surrounding said passage-ways and said division member.

1,680,970. AMUSEMENT SWING. CONRAD DAHL, Springfield, Ohio, assignor of one-half to Earl G. S. Tracy. Filed Mar. 31, 1927. Serial No. 179,791. 7 Claims. (Cl. 155—63.)



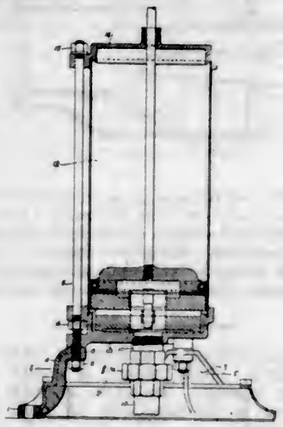
3. In a pleasure swing the combination of a supporting frame, pivoted hangers depending therefrom in parallel relation, a swing carriage including a seat and a portion extending rigidly upward therefrom having pivotal connection with the hangers, a horizontally movable operating member disposed above the plane of the seat, and connections between said member and the hangers whereby the movement of the operating member over the seat is in the same direction as the bodily movement of the swing carriage with respect to its supporting frame.

1,680,971. INDICATION FOR COLOR LIGHT SIGNALS. SALISBURY M. DAY, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Apr. 3, 1923, Serial No. 629,627. Renewed Apr. 5, 1927. 15 Claims. (Cl. 246—135.)



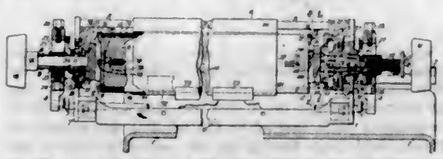
1. In an interlocking system for railways, the combination with a multiple aspect color light signal including a danger lamp, and a transformer for energizing said danger lamp under predetermined conditions, of indicating means located at a distant point and in a circuit including the primary winding of said transformer for indicating whether or not said danger lamp is energized.

1,680,972. GASOLINE PUMP. EARL E. EICKMEYER, Dayton, Ohio, assignor to The Dayton Pump & Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 25, 1927. Serial No. 178,180. 8 Claims. (Cl. 103—218.)



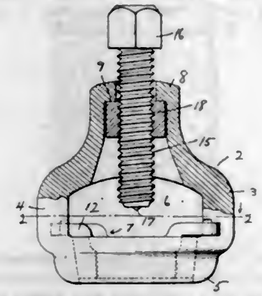
1. In a gasoline pump, a common base, a pump structure mounted thereon, and a casing mounted on said base independent of the pump structure.

1,680,973. TYPEWRITING MACHINE. JACOB FELDEL, New York, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Apr. 8, 1926. Serial No. 100,556. 7 Claims. (Cl. 197—126.)



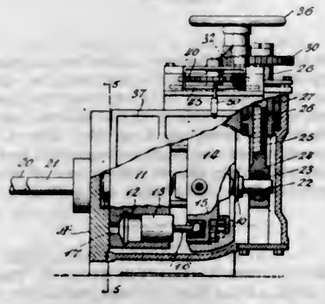
1. The combination with the detachable platen of a typewriting machine, of a table or support, bearings on said table for said platen, platen rotating means associated with said bearings and a guide on said table for facilitating the application of paper to the platen when it is mounted on said bearings.

1,680,974. WHEEL PULLER. FREDERICK GEORGE EISENHUTH, Utica, N. Y. Filed Sept. 2, 1927. Serial No. 217,198. 1 Claim. (Cl. 29—85.)



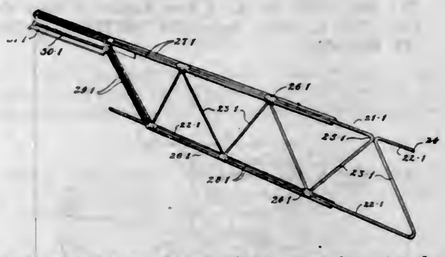
In a wheel puller, a hollow body, the same being formed with a downwardly tapering enlarged annular seat on the open lower end portion of the body, the upper end of the body being reduced, an internally threaded split bushing for disposition within the annular seat, the outer peripheral face of the bushing being tapered for cooperation with the tapered seat, said bushing being adapted to be threaded on the wheel hub, a pressure screw extending downwardly through the reduced upper end of the body, the lower end of the screw adapted to engage the outer end of the wheel axle, a nut arranged in the reduced upper end portion of the body through which the pressure screw is threaded, cooperating means between the bushing and the body for limiting the rotary movement of the members with respect to each other in one direction, said means comprising a pair of diametrically opposed lugs extending laterally from the upper edge portion of the bushing, said hollow body being formed with projections with which the lugs cooperate.

1,680,975. HANDWHEEL AND LOCKING DEVICE FOR SPEED GEARS. DANIEL R. FRANCIS, Waterbury, Conn., assignor to The Waterbury Tool Company, Waterbury, Conn., a Corporation of Connecticut. Filed Mar. 2, 1927. Serial No. 171,940. 4 Claims. (Cl. 74—7.)



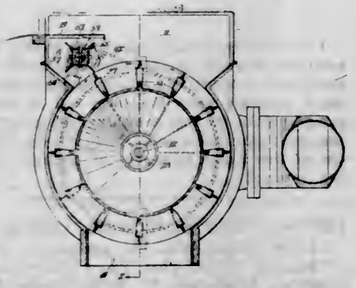
1. The combination with a hydraulic speed gear, having a swash plate adapted to be moved to different inclined positions to vary the effective speed of said gear, a control shaft, and connections between said control shaft and swash plate for changing the angle of inclination of the latter, of an attachment for said gear comprising a bracket, a manually operable control member and a reduction gearing carried by said bracket and interposed between said member and control shaft, for causing a relatively large movement of said member to produce a slight movement of said control shaft.

1,680,976. TRUSSED STRUCTURE. HURXTHAL FIELD FREASE, Canton, Ohio. Filed Nov. 4, 1925. Serial No. 66,847. 16 Claims. (Cl. 189—37.)



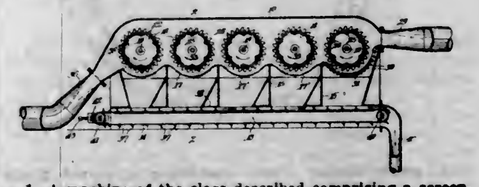
1. A trussed structure including a truss element and a plurality of spaced chord bars, the truss element including spaced rows of chord members and connecting web members, all the element members being formed from a single continuous strip, and there being spaced junction angles between the chord and web members, one of the rows of chord members abutting and being fastened at each junction angle to a plurality of the spaced chord bars.

1,680,977. COTTON SEPARATOR. JAMES C. GARNER, Houston, Tex. Filed Apr. 7, 1927. Serial No. 181,739. 21 Claims. (Cl. 19—75.)



1. In a machine of the class described, a casing having an inlet, a rotary drum therein having a plurality of peripheral pockets with foraminous portions on the drum wall adapted to be moved successively adjacent said inlet to be filled, means for passing air through said foraminous pocket portions when in a certain section of the path of travel of the drum and means within the casing and spaced inwardly from its wall for leveling the filled pockets.

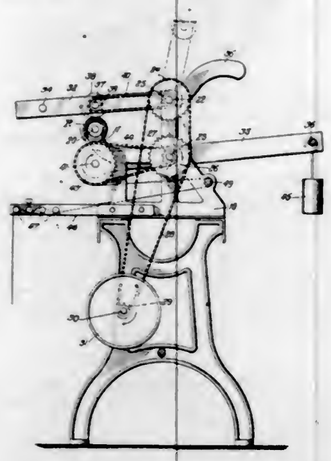
1,680,978. COTTON-CLEANING APPARATUS. JAMES C. GARNER, Houston, Tex. Filed Oct. 13, 1927. Serial No. 226,021. 14 Claims. (Cl. 19—72.)



1. A machine of the class described comprising a screening bed having cotton separating instrumentalities thereabove, a casing enclosing said instrumentalities and having

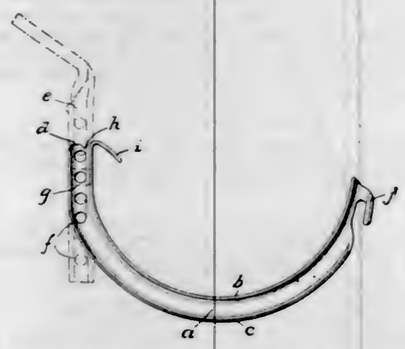
inlet and outlet ports at opposite ends of the bed, a plurality of spaced partitions beneath said bed disposed at an angle thereto whereby to form a plurality of compartments, and conveyor means forming movable bottoms for said compartments.

1,680,979. CLOTH-ROLLING MACHINE. PERCY GARDNER, East Orange, N. J., assignor to H. M. Bunker & Co., New York, N. Y., a Corporation of New York. Filed Feb. 8, 1927. Serial No. 166,775. 14 Claims. (Cl. 242—66.)



1. In a cloth rolling machine, a fixedly mounted freely rotatable batching spindle upon which the cloth is rolled, and a pair of positively driven drums engaging and exerting a pressure upon the cloth roll at diametrically opposite points of the periphery for frictionally turning the same, the cloth being trained over the periphery of one of the drums to permit of accurate measurement of the yardage.

1,680,980. GUTTER-HANGER CIRCLE. GEORGE B. GEISER, Philadelphia, Pa., assignor to Berger Brothers Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 12, 1925. Serial No. 68,502. 1 Claim. (Cl. 108—29.)



A gutter hanger circle comprising a curved flange forming a gutter seat, a supporting web extending outwardly from the flange, and a gutter engaging hook formed by an inwardly bent portion of the flange extending beyond an end of the supporting web, said end of the supporting web being notched at a point slightly spaced from the flange, whereby subsequent bending of the extending portion of the flange and the portion of the web between the notch and the flange produces a gutter engaging hook reinforced at its bend by an inwardly extending web member integral with the supporting web.

1,680,981. TIRE-CHAIN FASTENER. JAMES R. GLADDEN, Jr., Wathena, Kans. Filed Mar. 7, 1928. Serial No. 259,755. 3 Claims. (Cl. 24—232.)



1. A device of the class described comprising a pair of duplicate parts pivotally connected together, said parts being formed at their outer ends with hooks, and the inner ends being formed with retaining tongues adapted to bridge the entrance portions of the hooks, said retaining tongues extending directly at right angles to said hook.

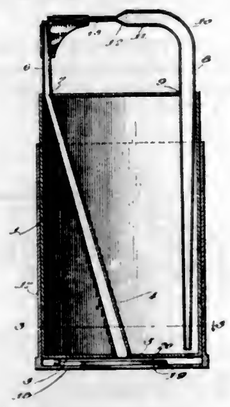
1,680,982. DEVICE FOR ANIMATING OBJECTS. EDWARD G. GOERK and GUSTAV GOERK, Irvington, N. J. Filed Apr. 2, 1927. Serial No. 180,592. 3 Claims. (Cl. 40—33.)



1. In a device of the character described, a supporting element, objects on the support which may be varied in location on the support without effecting the operation of the device, means for animating the objects comprising flexible connections extending from the objects, means for slidably supporting the flexible connections and power driven means for giving different directions of movement to the objects through the flexible connections.

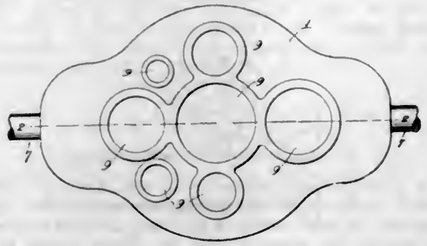
1,680,983. COMBINED LIQUID CONTAINER AND SPRAYER. GEORGE B. GRAF and FLOYD E. WHITMAN, Shawnee, Okla. Filed Dec. 18, 1925, Serial No. 76,217. Renewed Jan. 31, 1928. 2 Claims. (Cl. 299—88.)

1. A combined liquid container and sprayer comprising a container, a blow tube extending through said container beyond one end of the container, a liquid delivery tube protruding from the space within said container beyond said one end of the container in substantially spaced relation to said blow tube, the protruding portion of said liquid delivery tube being bent to terminate at the adjacent end of said blow tube, whereby an air blast may be delivered by said blow tube across the open outer end of the liquid delivery tube to draw liquid from the container through said liquid delivery tube and to atomize



the liquid, and a bracket connecting the adjacent end portions of said blow tube and said liquid delivery tube, whereby said protruding portions of said blow tube and said liquid delivery tube and said bracket jointly constitute a handle whereby said container may be carried.

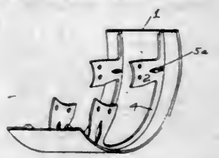
1,680,984. DIESTOCK. JOHN J. GROVE, Detroit, Mich. Refiled for abandoned application Serial No. 476,386, filed June 10, 1921. This application filed July 2, 1924. Serial No. 723,846. 1 Claim. (Cl. 10—114.)



A die stock comprising a plate provided at its intermediate portion with a group of openings, one of said openings being located at the center of the plate and at the center of the group of openings, said plate having upon its side surface a continuous rib completely surrounding each opening of the group and all of the openings of the group, the plate having at its opposite side and at opposite points of its edge aligned lugs, a die plate carried by the lugs, and handles detachably connected with the lugs.

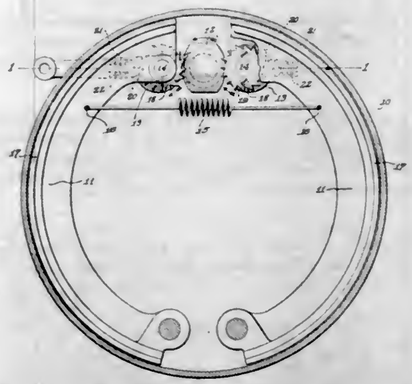
1,680,985. METHOD OF MAKING SHEET-METAL PULLEYS. HENRY J. GILBERT, Saginaw, Mich., assignor to Saginaw Manufacturing Co., Saginaw, Mich., a Corporation of Michigan. Filed July 26, 1924. Serial No. 728,467. 2 Claims. (Cl. 29—159.)

1. The method of making a rim section of a sheet metal pulley that consists in forming a blank including a rim section and oppositely directed flat spoke members integral therewith, forming raised bosses in the blank at the juncture of the spoke members and the body of the blank, folding the longitudinal edges of said blank to form a rim portion of double thickness, bending the spoke members thereon at right angles to said rim blank and



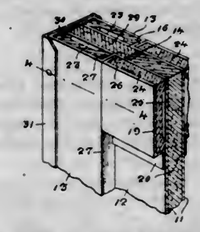
then rolling the folded blank into semi-circular form, thereby causing said raised boss to take up metal of the blank and producing a flat spoke member free of crinkles.

1,680,986. EXPANSIBLE BRAKE. ELY W. HARELIK, Detroit, Mich. Filed Aug. 4, 1926. Serial No. 127,011. 8 Claims. (Cl. 188—196.)



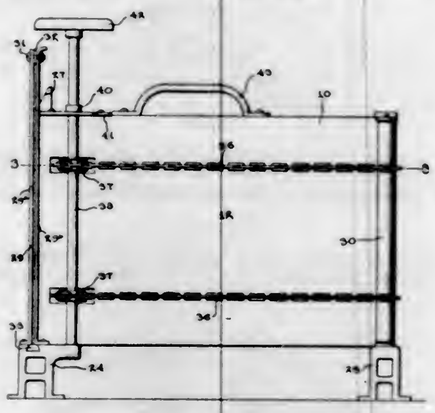
1. In a brake, the combination with a drum, friction members in said drum, and a cam for operating said friction members, of variable spacers between said cam and friction members, said spacers being adjusted by the engagement of said cam therewith to automatically vary the effect of said cam in operating said friction members.

1,680,987. DOOR. FRED W. HARGRAVE, South River, N. J. Filed Mar. 21, 1927. Serial No. 177,155. 4 Claims. (Cl. 189—46.)



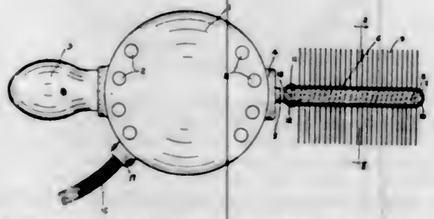
1. A fireproof door comprising a pair of sheet metal sections extending the length of the door, and constituting the panel thereof, the vertical side edges of said sections being offset to provide the outer walls of the stiles, sections constituting the cross rails and fitting against the offset portions and flush therewith, plates co-extensive with the panel portion of said first sections and disposed within the offset portions thereof and extending the length of the same, and layers of fireproof material interposed between the sections and plates and adhesively secured thereto.

1,680,988. SLICER. WILLIAM H. HARMAN, Nashville, Tenn., assignor of one-half to Horace H. Grizzard, Nashville, Tenn. Filed Feb. 24, 1927. Serial No. 170,571. 3 Claims. (Cl. 146—150.)



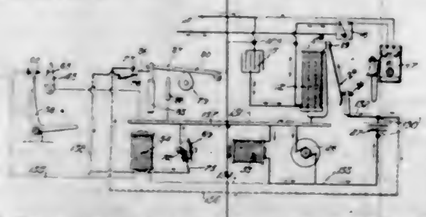
1. A device for the purpose indicated comprising a casing of which one wall consists of a loosely mounted plate yieldingly impelled toward the opposite wall, a positively actuated follower traversing th ecasing, and a knife guide mounted at one end of the casing.

1,680,989. MASSAGING APPARATUS. OLE HIBNER, Cleveland, Ohio. Filed May 22, 1926. Serial No. 110,834. 3 Claims. (Cl. 128—55.)



1. In a massaging apparatus of the class described, the combination of a handle, and a rotatable mandrel, said mandrel adapted to carry a massaging member on its outer surface, said member comprising a continuous core and a plurality of limp massaging strings extending therefrom, said strings adapted to be thrown outwardly by centrifugal force when the mandrel is rapidly rotated.

1,680,990. TELEPHONE. THEODORE HENRY HOWELL, Melbourne, and ROYCE GEORGE FERGUSON, St. Kilda, Victoria, Australia. Filed Apr. 2, 1924, Serial No. 703,799, and in Australia Apr. 18, 1923. 30 Claims. (Cl. 179—2.)



1. In an automatic telephone system furnished with number selecting dials, a number selecting and recording device embodying an electromagnetically controlled stamping device, electro-magnetically controlled mechanism for feeding a ribbon past the stamping device, a local battery for energizing the electromagnets of the stamping device and feeding and adjusting mechanisms, and a relay and condenser adapted to be energized by the ringing current to close the circuits of the local battery and permit it to energize the parts of the device.

1,680,991. FIGURE WHEELED TOY. GAIUS CLEVELAND HUNTER, Buffalo, N. Y. Filed Mar. 23, 1927. Serial No. 177,757. 1 Claim. (Cl. 46—45.)



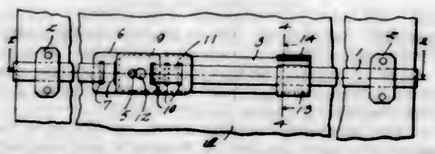
A toy of the character described comprising a body member simulating a combination of an enclosed automobile and flying machine, said body member which comprises a hood, passenger compartment and fuselage being formed of a unitary piece of material, running wheels upon which the body is mounted, a tail member mounted upon a running wheel and pivotally secured to the rear end of the fuselage, wings simulating flying machine wings swingably mounted upon the body, a rocker arm positioned within the body and connected to the running wheels so that it oscillates as the toy is propelled, a figure formed in the rocker arm to simulate the driver of the toy, and means connecting the rocker arm to the wings so that the wings flap as the rocker arm oscillates when the toy is propelled.

1,680,992. THREAD CUTTER FOR SEWING MACHINES. CLARA JEBB, Orillia, Ontario, Canada. Filed Oct. 16, 1926. Serial No. 142,116. 1 Claim. (Cl. 112—252.)



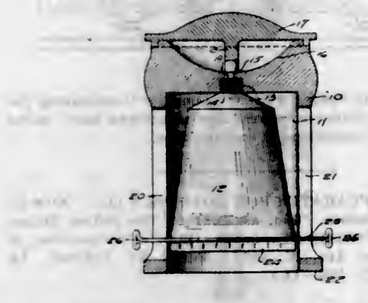
A presser foot having its outer side forward of the needle opening of the foot meeting the upper surface substantially at right angles thereto, the said side adjacent its forward end having a notch cut therein sloping in a downward and inward direction to form a bevelled cutting edge at the upper surface of the foot, the said cutting edge forming an indentation in the outer edge of the upper surface of the foot, whereby threads may be cut by drawing them downwardly and transversely against the cutting edge.

1,680,993. TIE-BAND-SECURING DEVICE FOR TRUNKS AND THE LIKE. SAMUEL G. JOHNSON, Tucson, Ariz. Filed Sept. 1, 1927. Serial No. 216,917. 2 Claims. (Cl. 24—69.)



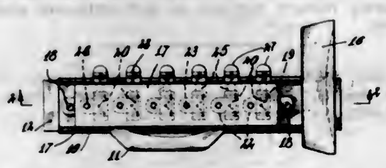
1. A tie band securing device, comprising a lever having spaced studs adjacent to one of its ends, a plate pivotally engaging one of said studs and adapted to be secured to one end of a tie band, a plate to engage the other end of said band and having an opening therein to receive the other stud, a hook on one edge of the lever to engage the tie band and hold the lever in securing position, and a flange on the other edge of the lever and extending across the opening to the hook.

1,680,994. DISPENSER FOR SOAPS, CREAMS, OR THE LIKE. JACOB KARPE, New York, N. Y., assignor to Herman Germain, New York, N. Y. Filed Nov. 24, 1926. Serial No. 150,418. 2 Claims. (Cl. 221—60.)



1. A dispenser for soaps, creams, and the like, contained in a collapsible tube comprising a hollow base and enclosing support adapted to permit the tube to be inserted from underneath, said support having an upper closed top with a threaded recess to receive the threaded delivery end of the collapsible tube and a passage extending from the top of the recess to the top of the support, the top of the support being concave to provide a mixing receptacle, and a removable cap on top of the support, said cap having a depending member to close the passage.

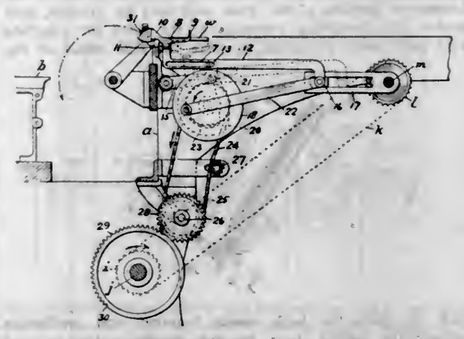
1,680,995. DOUBLE SUN SPECTACLE. JOSEPH KARASIEVICZ, South Amboy, N. J. Filed Aug. 19, 1926. Serial No. 130,126. 1 Claim. (Cl. 88—7.)



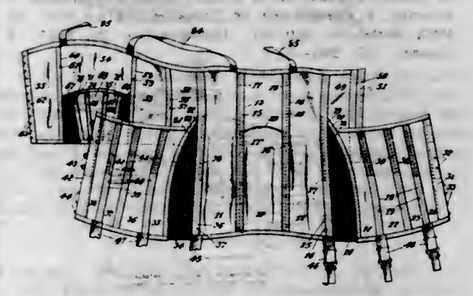
In a device for observing the sun, the combination of a box open at opposite ends, a front eye piece mounted at one of the ends, a visor at the opposite end, a closed compartment attached to said box, frames slidably mounted in said compartment and box, the said frames being spaced longitudinally along the length of the box, colored transparent panes verging from the center, mounted in each of said frames, means mounted externally of the compartment for selectively moving the colored panes into an operative position within the box, and means mounted within the compartment for automatically returning the panes into an inoperative position within the compartment.

1,680,996. CIGAR-BUNCH MACHINE. ROBERT R. KITCHEL, Ridley Park, and JESSE L. LIPPARD, and JOSEPH E. MULLAN, Philadelphia, Pa., assignors to Bayuk Cigars, Incorporated, Philadelphia, Pa., a Corporation of Maryland. Filed Feb. 7, 1925. Serial No. 7,483. 13 Claims. (Cl. 131—39.)

1. In a cigar bunch machine, the combination with a the feeding device and the delivery by its other end of a having upturned ends, means to actuate the finger to effect the withdrawal by one of its ends of a filler from the feeding device and the delivery by its other end of a previously withdrawn filler, and a bar adapted to bear on the fillers during their withdrawal from the feeding device and delivery to the transfer device.



1,680,997. APPAREL GARMENT. WALDEMAR KOPS, New York, N. Y., assignor to Kops Bros. Inc., a Corporation of New York. Filed Oct. 25, 1926. Serial No. 143,941. 4 Claims. (Cl. 2—30.)



1. In an apparel garment including a girdle and a brassière member, a brassière front section of inelastic material, the lower edge of which tapers upwardly from a centrally disposed point substantially in the lower edge of the brassière member, and a diaphragm strap comprising a centrally disposed inelastic section with the side edges thereof diverging upwardly, and elastic sections secured to the diverging edges of the said central section of the diaphragm strap and of such an extent as to cause the diaphragm strap to be substantially co-extensive circumferentially with the front section of the brassière member, the lower portion of the diaphragm strap underlying and being free from the upwardly tapered lower edges of the front section of the brassière member whereby the stretch of the upper portion of the diaphragm strap is determined by the width of the front section of the brassière member and the stretch of the lower portion of the diaphragm strap is not so determined.

1,680,998. ROUTE GUIDANCE. PHILIP M. KRANTZ, Brooklyn, N. Y. Filed Dec. 1, 1926. Serial No. 151,852. 3 Claims. (Cl. 40—16.)

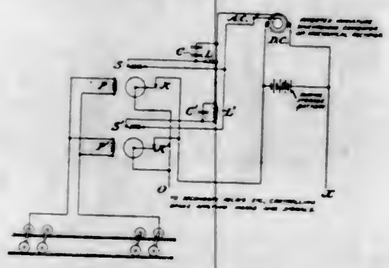
1. In a route guidance device, the combination of a carrier for an indicia sheet and a holder for said carrier; said carrier including a transparent front sheet, and a second sheet, and these sheets being flexibly joined at their bottoms to constitute a rudimentary book between the sheets of which book an indicia sheet in the shape of a folded map may be placed to be held in the book by

gravity when the book is arranged with such flexible jointure lowermost and substantially horizontal; and said holder including a sheet-like main structure carrying at its bottom a forwardly protruding element on which the lowermost portion of the book may rest by gravity, said holder also including elements at its sides for coacting with said main structure to seize the side edges of the



book, to force the book sheets together and resiliently against the indicia sheet, thereby simultaneously to hold said indicia sheet frictionally within the book and to hold the book frictionally on said forwardly protruding element,—said side elements having portions for engaging the side edges of the book to hold the latter positively against shift laterally of said main structure.

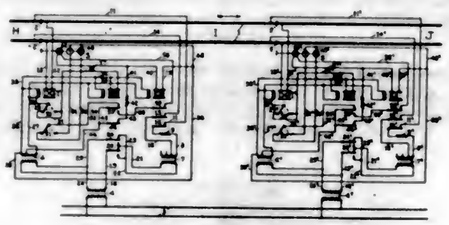
1,680,999. AUTOMATIC TRAIN-CONTROL APPARATUS. ANDREW LANGDON, Port Jervis, N. Y., assignor, by mesne assignments, to Train Control Corporation of America, a Corporation of Delaware. Filed Feb. 20, 1923. Serial No. 620,283. Renewed Dec. 29, 1927. 3 Claims. (Cl. 246—37.)



1. In train control apparatus, the combination of means for imposing an alternating current upon the traffic rail system of an occupied block under clear traffic conditions ahead and removing said alternating current from said occupied block under restrictive traffic conditions ahead, and primary relay means on the vehicle in a conductor receiving alternating current from the energized traffic rail system of a block due to the drop in potential between the points of contact of said conductor with said rail system, and means on the vehicle controlled by said primary relay when energized to give an indication for proceeding under clear traffic conditions ahead and an indication for stopping under restrictive conditions ahead, said primary relay being excited by means on the vehicle, in addition to its excitation through said conductor substantially as described.

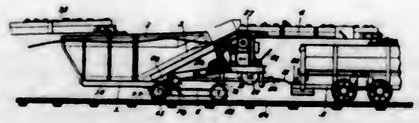
1,681,000. CHECK ON LIGHT-SIGNAL LAMPS. EDWIN CHARLES LARRY, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed May 5, 1923. Serial No. 636,997. Renewed Apr. 5, 1927. 21 Claims. (Cl. 246—34.)

1. In a railway signaling system, the combination with a trackway divided into blocks, of a signal at the entrance to each block, automatic means for operating said signals in accordance with traffic conditions including the usual track circuit and associated track relay, and means effective under danger traffic conditions of a certain block for causing the signal at the entrance to the next block in the



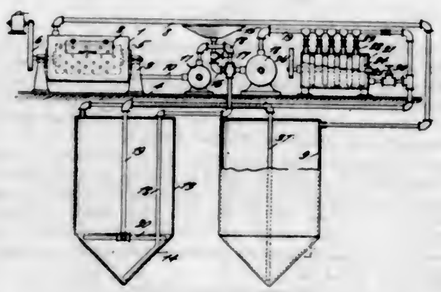
rear to indicate danger when the lamp for illuminating the signal at the entrance to said first mentioned block under danger traffic conditions is extinguished.

1,681,001. APPARATUS FOR LOADING CARS. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Apr. 17, 1917. Serial No. 162,649. 14 Claims. (Cl. 198—11.)



1. In an apparatus for loading coal in a mine chamber, the combination of a track extending towards the working face, a car adapted to be moved along said track towards and from loading position, a receptacle adapted to be positioned adjacent to said loading position and adapted to the accumulation of a stationary mass of broken coal sufficient to fill said car, and optionally controlled means to quickly transfer the coal of said stationary mass to said car.

1,681,002. PURIFYING DEVICE. FREDERICK G. LONDAGIN, Seattle, Wash. Filed Apr. 22, 1927. Serial No. 185,852. 3 Claims. (Cl. 210—52.)



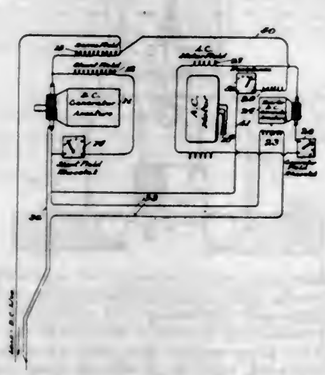
1. A purification apparatus in connection with dry cleaners and the like using a solvent such as gasoline, comprising a plurality of settling tanks, means for delivering a chemical solution to one of the tanks, means for circulating said solution, and means for circulating the impure cleansing solvent through a portion of the path of the chemical solution.

1,681,003. GLASS WASHER. VASILIOS S. MACKRES, Brockton, Mass. Filed Jan. 7, 1926. Serial No. 79,846. 3 Claims. (Cl. 15—75.)



1. In a washer, a conical support, a rod reciprocably mounted in said support, a brush attached to said rod, said brush on reciprocation of said rod passing along side of said conical support and adapted to be deflected outwardly thereby, and means urging the said rod in one direction.

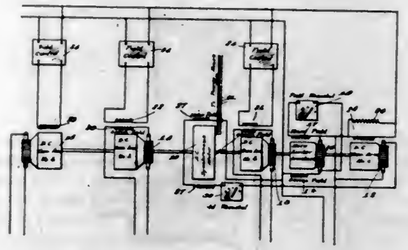
1,681,004. POWER-FACTOR CONTROL FOR POWER SYSTEMS. SHERMAN MELTON, Sturgis, Ky. Filed Nov. 10, 1925. Serial No. 68,219. 7 Claims. (Cl. 172—246.)



7. A synchronous A. C. motor D. C. generator set having a compound wound D. C. exciter, means for energizing one of the field coils of the exciter, with substantially constant potential electrical energy, and means for energizing the other field coil of the exciter proportionately to the output of the generator.

1,681,005. POWER-FACTOR CONTROL FOR POWER DISTRIBUTION. SHERMAN MELTON, Sturgis, Ky. Original application filed Nov. 10, 1925, Serial No. 68,219. Divided and this application filed June 9, 1926. Serial No. 114,770. 3 Claims. (Cl. 172—246.)

1. In a system of the character described, a synchronous motor driving a plurality of generators and an exciter, means whereby the exciter may be utilized for controlling the field of said generators, means whereby an increase of current from said exciter will in direct proportion raise



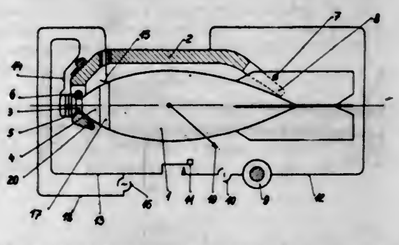
the output voltage of one of said generators, and connecting means whereby the last named generator will supply the field current of said synchronous motor.

1,681,006. ARTICLE OF HEADWEAR. PERCY MERTON, Park Ridge, N. J. Filed Dec. 4, 1926. Serial No. 152,613. 3 Claims. (Cl. 2—195.)



1. An article of headwear including a crown, an outer band forming a strip doubled on itself to present a tubular formation, and a band U-shaped in cross-section, the said outer band being disposed at the under side of the edge portion of the crown and said band constituting a binding for said edges of the crown and outer band, the edges of the crown and tubular strip being horizontal, and said U-shaped band constituting a head-contacting size band.

1,681,007. METHOD OF DISCHARGING BOMBS AND FOR RENDERING THEIR FUSES ACTIVE. BOHDAN PANTOFLICEK, Pilsen, Czechoslovakia. Filed Oct. 18, 1924. Serial No. 744,399, and in Czechoslovakia Oct. 16, 1923. 13 Claims. (Cl. 244—1.)

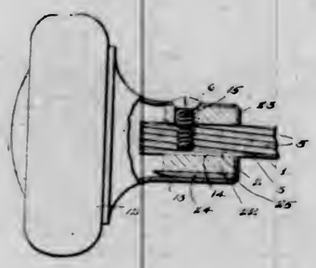


1. In an apparatus of the character described, the combination of means to support a bomb, and electric means for releasing the bomb and rendering its fuse active selectively either with or without delay and causing it to act as an impact fuse or as a delay fuse.

1,681,008. DOOR-KNOB CONSTRUCTION. OTTO PETERMANN, Groton, N. Y., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Mar. 14, 1927. Serial No. 175,059. 11 Claims. (Cl. 292—350.)

1. A door knob construction comprising a U-shaped shank constituting an elongated channel member, a knob

having a hub surrounding one end of said shank, said hub having a hole in alinement with the channel of said shank, and a member of greater diameter than the distance



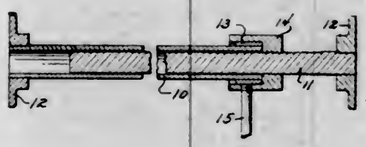
between said walls passing through said hole into said channel and separating the walls of said channel into binding engagement with said hub.

1,681,009. PROCESS OF REFRIGERATING AND PRESERVING COMESTIBLES. PAUL W. PETERSEN, Bay City, Mich. Filed June 23, 1923. Serial No. 647,373. 13 Claims. (Cl. 99—14.)

5. The process of preserving comestibles which comprises washing the comestibles in a solution containing a germicidal agent such as sodium hypochlorite normally subject to dissociation, thereafter rapidly freezing the comestible together with said solution remaining thereon, and subsequently applying a coating of ice to the comestible.

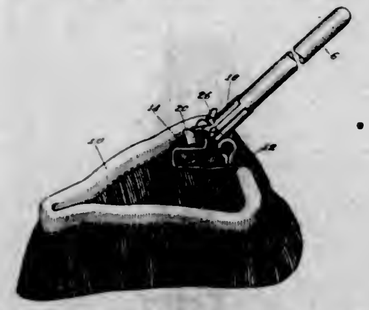
9. Frozen comestibles covered with an icy coating containing a diffusive germicide comprising sodium hypochlorite.

1,681,010. CLOTHES ROD. LAWRENCE RAGGIO, Port Arthur, Tex. Filed Oct. 2, 1926. Serial No. 139,159. 1 Claim. (Cl. 211—123.)



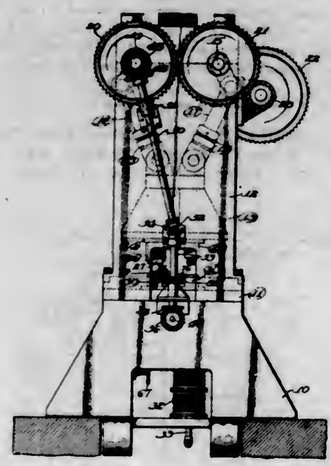
A clothes rod of the character described comprising a hollow section, a threaded section slidably fitted within the hollow section, a collar surrounding the hollow section adjacent the inner end thereof, a nut threaded on the second mentioned section and including a hollow body portion rotatably fitted about the adjacent end of the hollow section and surrounding said collar, whereby the adjacent end of the hollow section is reinforced, said nut having an opening in one side, a combined handle and locking device adapted to be partly threaded into the opening and initially used to turn the nut, and subsequently used to bind against the said washer to hold the sections fixed relatively in a given position, said handle including two pivotally connected sections for the purpose specified.

1,681,011. MOP-HANDLE-CLAMPING DEVICE. FRANK M. ROBINSON, Jr., Pasadena, Calif. Filed Jan. 26, 1927. Serial No. 163,644. 2 Claims. (Cl. 306—15.)



1. A mop, including a frame, a handle pivotally mounted thereon, and means for removably attaching the handle to the mop head in a plurality of positions, said means comprising a bar bent in triangular form, said bar extending upwardly from, and forming an integral portion of the mop head frame.

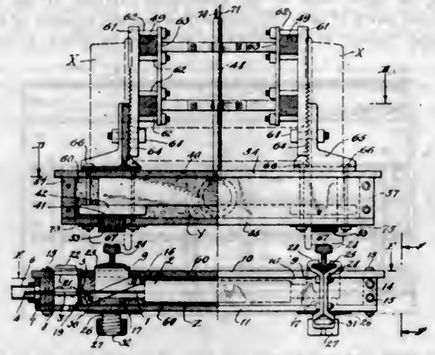
1,681,012. SHEET-METAL PRESS. FREDRICH J. RODE, Chicago, Ill., assignor to Marquette Tool & Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 2, 1926. Serial No. 133,116. 19 Claims. (Cl. 113—38.)



1. A sheet metal press embodying two separated stations for performing different operations upon the work, means for simultaneously performing said operations, means operating automatically to elevate the work at the respective stations after being operated upon, means for engaging and moving the work while thus elevated, from one of said stations to another station, mechanism for actuating the said work engaging and moving means, a guide for the work between the said stations, said guide being movable into and out of position, and means operating while the work is being done for positioning the guide to receive the work from one station and for directing it to the other station.

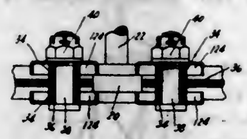
1,681,013. AUTOMATIC TRAIN CONTROL. OSCAR ARTHUR ROSS, New York, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Dec. 28, 1921. Serial No. 525,508. 6 Claims. (Cl. 246—63.)

2. In a device of the kind described a trackway having rails, an inductive member located on the trackway, a vehicle adapted to travel on said rails, an inductive member carried by said vehicle, and means carried by said vehicle and associated with said vehicle inductive member for



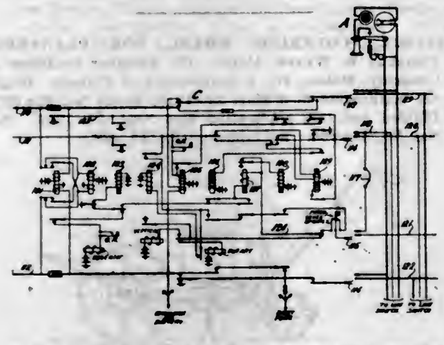
effecting the stopping of said vehicle upon dislocation of said vehicle carried inductive member with respect to said vehicle.

1,681,014. BRAKE MECHANISM. ROY S. SANFORD, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 10, 1927. Serial No. 232,253. 3 Claims. (Cl. 188—250.)



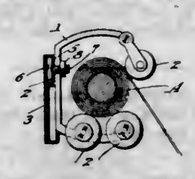
3. A brake shoe having a permanently mounted bushing projecting at its opposite sides, rollers mounted on opposite ends of said bushing, a pin passing through the bushing and having a head engaging one end of the bushing and holding one of the rollers, and a nut threaded on the opposite end of the pin and engaging the opposite end of the bushing and holding the other roller.

1,681,015. AUTOMATIC TELEPHONE SYSTEM. NORMAN H. SAUNDERS, Homewood, Ill., assignor to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed Mar. 31, 1927. Serial No. 179,782. 14 Claims. (Cl. 179—17.)



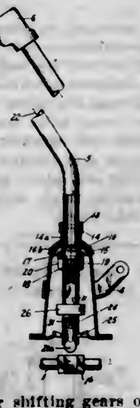
1. In a party-line automatic telephone system, switching mechanism controlled over a calling line to set up a connection to a party line, a station-selecting device individual to the selected party line, and means for operating said device from the calling line after the connection has been set up to the called line to signal any desired station on the party line.

1,681,016. AWNING PROTECTOR. GEORGE M. SCHMIDT, Cedar Rapids, Iowa. Filed May 10, 1926. Serial No. 108,134. 1 Claim. (Cl. 156—44.)



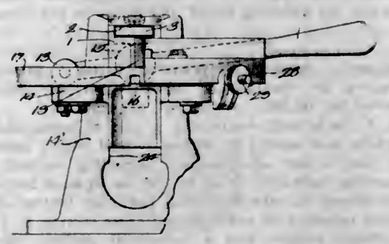
Awning supporting means comprising a track member having a guideway at its upper part and a flange at its lower part, a block sliding in the guideway, a bolt carried by the block, a bracket connected with the bolt and having a part engaging the lower flange and rollers for supporting an awning carried by the bracket.

1,681,017. LOCK. ANTHONY R. SMITH, Elyria, Ohio, assignor to The Elyria Iron and Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 3, 1927. Serial No. 165,514. 20 Claims. (Cl. 70—127.)



2. In mechanism for shifting gears of automobiles and the like, the combination of gear means, a shifting lever having a member connectible with and disconnectible from said gear means when the lever is in a predetermined position, means for locking the said member in a disconnected and inaccessible position while permitting ordinary movement of the lever, and means for returning the lever to and maintaining it in the predetermined position while restoring the said members to connected position with the gear means.

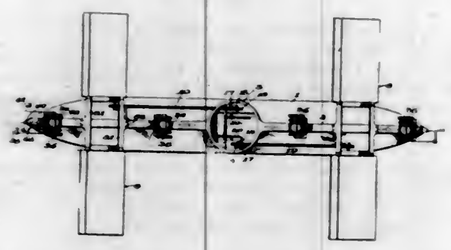
1,681,018. SHAVING PLANE. FRANK J. STEPHAN, Chicago, Ill., assignor to H. B. Rouse & Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 17, 1926. Serial No. 155,460. 1 Claim. (Cl. 90—25.)



A plane including a stock having a trailing portion of U-shape integrally formed with the balance of the stock and whose longitudinal sides are formed with notches

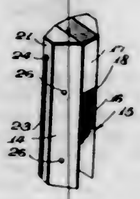
spaced apart from the base of said U-shaped trailing portion; a bar located in said notches and spaced apart from the base of said U-shaped portion to afford a slot through the sole of the stock; and a bit assembled with the stock and having its cutting edge projecting through said slot.

1,681,019. HELICOPTER. HARRY CLARK STEWART, Webster, Ky. Filed Aug. 10, 1926. Serial No. 128,393. 7 Claims. (Cl. 244—15.)



3. In a flying machine, an elongated body, a narrow superstructure extending on the body intermediate the width of the body, each of the end portions of the superstructure having transverse cut-away portions, bearing rings supported at opposite sides of the end portions of the superstructure, plane units extending transversely of the machine through said cutaway portions of the superstructure and through said aligned bearing rings and carrying rings encircling said plane units and rotatably supported in said bearing rings, said carrying rings being secured to said plane units.

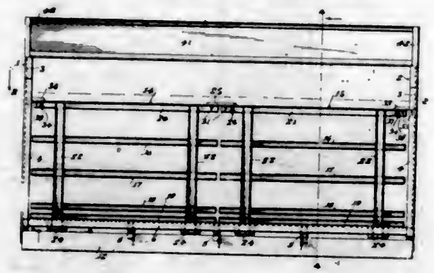
1,681,020. POST. JOHN FRED STIMSON, Aulander, N. C. Filed May 13, 1927. Serial No. 191,249. 2 Claims. (Cl. 155—86.)



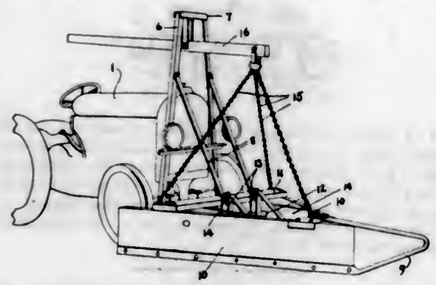
1. A device of the character described comprising a pair of chairs with a supporting standard located between the chairs, said chairs being provided with backs, means for covering the standard comprising a pair of finishing strips spaced from each other and having longitudinal slots to receive the side edges of the adjacent backs of the chairs, a spacing block for securing the upper edges of the finishing members together and adapted to rest upon the upper end of the standard, and means for securing the finishing strips and backs to the standards.

1,681,021. SIDE-RAIL TRUCK BODY. SIMEON E. TRAVIS, Jr., Hattiesburg, Miss. Filed Mar. 17, 1926. Serial No. 95,332. 4 Claims. (Cl. 296—8.)

4. A truck body comprising a pair of upstanding end members each having its bottom formed with a horizontal part and a pair of oppositely extending inclined parts projecting outwardly from and at an upward inclination with respect to said horizontal part, the bottom of each of said members of angle shaped cross section to provide a vertical portion and a horizontal portion extending inwardly at right angles from the lower end of the vertical portion, a pair of spaced oppositely disposed side members each of angle shaped cross section to provide a vertical portion and a horizontal portion extending inwardly from the upper end of the vertical portion thereof, the ends of the vertical portions of said side members seated on the outer ends of the horizontal portions of the inclined parts of said end members, a bottom member of the same contour as the bottom of said end members, extending from one end member to the other and secured to the horizontal portions of said side members, and brace members arranged below and corresponding in contour to the shape of said bottom member and extending from and secured to the inner faces of the vertical portions of said side members.

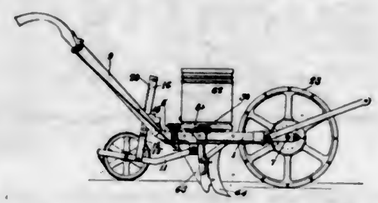


1,681,022. SNOWPLOW. MARTIN VEENSTRA, Ada, Mich. Filed Feb. 1, 1927. Serial No. 165,086. 4 Claims. (Cl. 37—44.)



1. A snow plow comprising a bracket adapted to be rigidly attached to a vehicle, vertically slotted guides on said bracket, a plow structure, and a shaft on said plow structure extending through said vertically slotted guides.

1,681,023. COVERING WHEEL FOR PLANTERS. CHARLES E. WHITE, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Original application filed Mar. 22, 1918, Serial No. 224,057. Divided and this application filed Sept. 24, 1923. Serial No. 664,490. 3 Claims. (Cl. 111—69.)



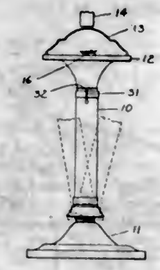
1. In a planter, the combination with a main frame, a wheel frame having side members pivotally attached to the main frame to swing vertically, and a covering wheel supported by the wheel frame, of a yoke shaped element comprising arms pivotally connected to the side members of the wheel frame to swing fore and aft, said element having an intermediate upwardly extending bar rigid therewith, notches in the rear margin of said bar, means at the rear of said bar adapted to engage the notches therein to hold said bar in different positions of vertical adjustment, whereby the wheel frame and covering wheel may be raised or lowered relatively to the main frame, a spring for normally holding said bar in engagement with said holding means, and handle bars secured to the main frame.

1,681,024. PERMANENT HAIR-WAVING APPLIANCE. ARTHUR G. BORDEN, Washington, D. C., assignor to The Borden Method Incorporated, a Corporation of Delaware. Filed Mar. 21, 1928. Serial No. 263,493. 5 Claims. (Cl. 132—33.1.)



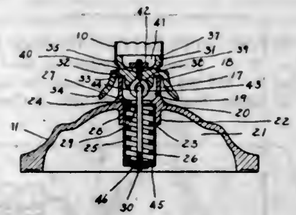
1. In a hair waving appliance a winder comprising a rod member, a heat resisting device concentrically positioned for rotative and longitudinal movement on said rod member, said device having a substantially cylindrical portion, a frusto-conical portion extending therefrom and a tongue projecting from said frusto-conical portion and a notch therein extending longitudinally of said device for receiving strands of hair and guiding said hair in a spiral along said rod member preparatory to subjecting the hair in wound formation to heat.

1,681,025. SMOKER'S STAND. JOHN H. BRADNACK, New Haven, Conn., assignor to The Tubular Products Company, Southington, Conn., a Corporation. Filed Sept. 21, 1925. Serial No. 57,655. 8 Claims. (Cl. 131—51.)



4. In a smoker's stand, an upright supporting an ash receiver, a base, said upright and base each having a screw-threaded socket, a coil spring having its end entered as screws in said sockets, and means for holding the ends of said spring in place in said sockets.

1,681,026. STAND FOR SMOKERS' SETS. JOHN H. BRADNACK, New Haven, Conn., assignor to The Tubular Products Company, Southington, Conn., a Corporation. Filed Nov. 13, 1925. Serial No. 68,774. 1 Claim. (Cl. 248—41.)



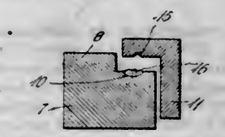
In a stand for smokers' use, a base having a dome-shaped body wall that is provided with an opening in the apex portion, having a seat for a spring structure that borders said opening on the inside, and having an annular seat structure that extends upwardly on the outside from the border of said first mentioned seat, a rider having a seat for cooperating with said annular seat and that is bordered by a downwardly projecting covering flange that generally encloses said annular seat, an upright that serves as a support for an ash receiver extending upwardly from said rider, and means operatively connecting said rider and base comprising a spring that is connected to said rider and that cooperates with said first mentioned seat.

1,681,027. BOTTOM FOR WATER METERS. JOHN W. CALHOUN, Chester, Pa. Filed Oct. 24, 1922. Serial No. 596,692. 1 Claim. (Cl. 137—71.)



A bottom for water meter casings to prevent damage from expansion within the casing due to freezing adapted to be used upon a meter casing having an open bottom and provided with fastening bolts around the opening, said bottom comprising a closure member machined and finished for permanent use to fit within and close the bottom opening of the meter case, and a retaining plate of substantially non-resilient frangible material provided with a central portion to extend entirely over and hold against the outer side of the closure member and having radially extending breakable lug arms to receive the fastening bolts to clamp the retaining plate rigidly against the closure member.

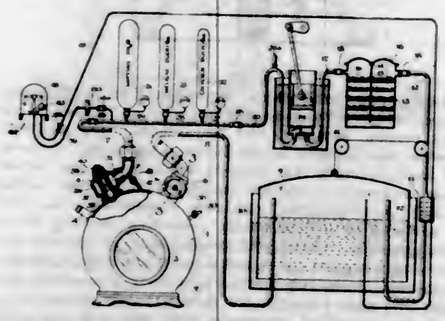
1,681,028. COMPOSITE BRICK. WILLIAM R. CHAPIN, Wyoming, Pa., assignor of one-half to Stogdell S. Staples, White Haven, Pa. Filed Feb. 2, 1928. Serial No. 251,407. 4 Claims. (Cl. 72—21.)



1. A composite brick comprising a body, and a facing having a portion resting on said body, the upper side of said body and the lower side of said portion of the facing

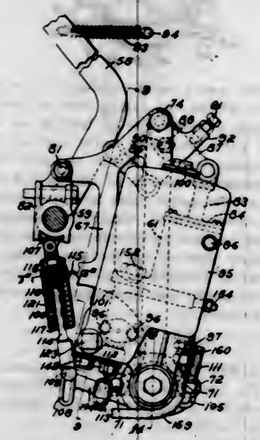
being formed with registering recesses, said recesses being adapted to receive a plastic for keying the facing and body together and being of such relative dimensions as to readily permit the breaking of the plastic key for removal of an injured facing without disturbing any of the other facings.

1,681,029. DIVING APPARATUS. CHARLES J. COOKE, Washington, D. C. Original application filed Aug. 15, 1919, Serial No. 317,838. Divided and this application filed Oct. 23, 1920. Serial No. 419,149. 3 Claims. (Cl. 61—71.)



1. Diving apparatus comprising a diving dress, a closed air circuit having an inlet and an outlet at the dress, means in communication with the circuit for introducing air to the inlet to the dress, and a valve situated between the inlet of said circuit and said dress operable by external fluid pressure to hold the valve in a normally open position.

1,681,030. FLUID-PRESSURE BRAKE SYSTEM. FREDERICK S. DUESENBERG, Indianapolis, Ind., assignor to Indianapolis Corporation, Wilmington, Del., a Corporation of Delaware. Filed Apr. 1, 1924. Serial No. 703,421. 21 Claims. (Cl. 188—152.)



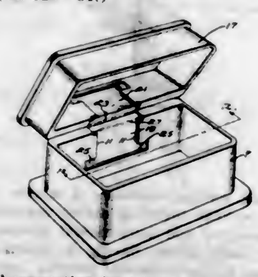
9. In a vehicle brake system, the combination of a brake; a brake-operating fluid motor; a master fluid motor for creating a pressure of the fluid in the system; a booster fluid motor for boosting said pressure; an actuator for said booster fluid motor; means including a spring to limit the pressure produced by said booster fluid motor during a predetermined portion of the travel of said actuator; and means to supercede said spring during the remainder of such travel and to cause the pressure to be raised above such limit.

1,681,031. COMBINED WASH RAG AND SOAP HOLDER. HAZEL TIETJEN FORBIS, Missoula, Mont. Filed Oct. 22, 1927. Serial No. 228,032. 2 Claims. (Cl. 46—40.)



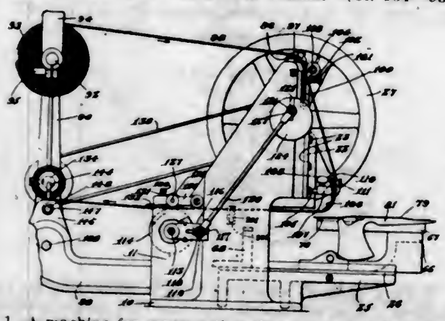
1. As an article of manufacture, a toy comprising a combined wash-rag and soap holder, having a body portion formed of a rectangular strip of fabric provided with the simulation of the face of an animal applied thereto near the upper central portion thereof, said strip being folded along its longitudinal center and the two flaps stitched together between the ends to form a pocket, said pocket being formed on the inside of the folded cloth, this pocket being then turned inside out to reverse the flaps and to expose said design, the two upper corners being gathered in to simulate the ears of the animal, and simultaneously to constrict the open end of said pocket.

1,681,032. HINGED CONNECTION. JOSEPH C. FULLER, West Newton, Mass., assignor to Northern Industrial Chemical Company, Boston, Mass., a Corporation of Massachusetts. Filed June 7, 1927. Serial No. 197,067. 5 Claims. (Cl. 220—31.)



1. A hinged connection for a box comprising a leaf hinge, the leaf thereof being provided with a pair of oppositely arranged tangs, the hinged connected walls of the box having formed in its face a recess of lesser width than the leaf, the opposite side walls of the recess having slots opening to the edge of the wall whereby the leaf with the tangs bent may be inserted in said slotted recess from the edge of the wall inwardly, and transverse locking recesses in the side walls of the box into which each tang may be bent back to hold the leaf in place after insertion in the recess.

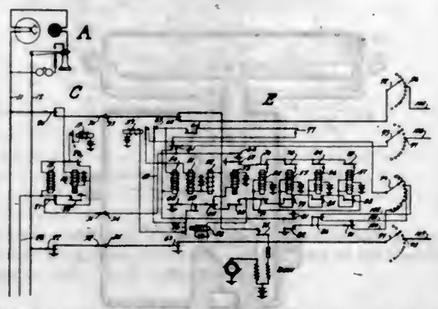
1,681,033. CUT-OUT MACHINE FOR SHOE UPPERS. BENJAMIN W. FREEMAN, Cincinnati, Ohio. Filed Dec. 3, 1923. Serial No. 678,213. 94 Claims. (Cl. 164—93.)



1. A machine for ornamenting shoe uppers, having movable work supporting means, pressure applying means, and shoe upper ornamenting means, said machine constructed

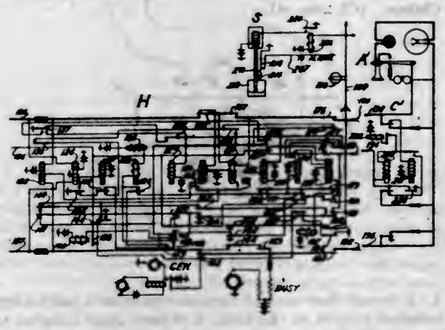
and arranged to provide a substantial space along lateral sides of the work supporting means and ornamenting means sufficiently large to admit thereto at least one hand to hold the work.

1,681,034. AUTOMATIC TELEPHONE SYSTEM. JOHN E. GARDNER, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Original application filed Aug. 12, 1921, Serial No. 491,745. Divided and this application filed Feb. 25, 1924. Serial No. 694,821. Renewed June 6, 1927. 13 Claims. (Cl. 179—18.)



1. In a telephone system, a trunk line terminating in an automatic switch, trunk lines divided into groups accessible thereto, wipers for said switch normally in electrical engagement with the trunk line used in the previously established connection, and means for causing said switch to advance said wipers in response to a digit of a called number to select a particular one of said groups.

1,681,035. AUTOMATIC TELEPHONE SYSTEM. JOHN E. GARDNER, Wilkinsburg, Pa., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Continuation of application Serial No. 694,821, filed Feb. 25, 1924, and a refiling of application Serial No. 491,745, filed Aug. 12, 1921. This application filed Apr. 22, 1925. Serial No. 24,915. 36 Claims. (Cl. 179—18.)



36. In a telephone system, an automatic switch, subscriber controlled means for operating said switch to connect with a desired line, subscriber controlled means in said switch for controlling the release of said switch, and additional and independently operable means in said switch for controlling its release in case the line connected with is open.

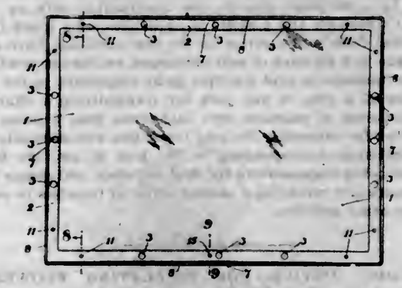
1,681,036. BOTTLE CLOSURE. JOHN M. L. GROBY, Newton, Mass. Filed May 9, 1927. Serial No. 189,859. 4 Claims. (Cl. 215—64.)

1. A bottle closure comprising a cap member adapted to fit over the beaded top end of a bottle neck and provided with a raised centerpiece, a clamping member comprising a circular portion adapted to fit around the neck of the bottle beneath the bead thereon with ends extending beyond the center of the neck tensioned against the sides thereof, arms connecting with said circular portion of the clamping member with extension upwardly therefrom at substantial right angles thereto from points inwardly removed from the ends of said circular portion, said arms being bent and extended by arm extensions to rest and turn



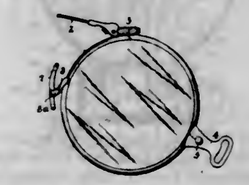
upon said centerpiece, said arms having such extension relatively to said cap member, and said arm extensions engaging said centerpiece at points so far removed from the bend in said arms that a distortive straightening effect will be imparted to said arms and extensions whereby the cap member will become tensioned against the top end of the bottle upon applying said circular portion of the clamping member to the bottle.

1,681,037. CELLULOID WINDOW. FREDERICK HAROLD HALL, Holford, near Bridgwater, England. Filed Feb. 3, 1925, Serial No. 6,570, and in Great Britain Feb. 9, 1924. 5 Claims. (Cl. 296—145.)



1. A window comprising a flexible transparent panel, a frame having resilient side and end members, means for attaching the middle portions of the edges of the panel to the said side and end members, an outer rigid frame, and means for securing the resilient frame to the said rigid frame so as to allow of a relative movement between them.

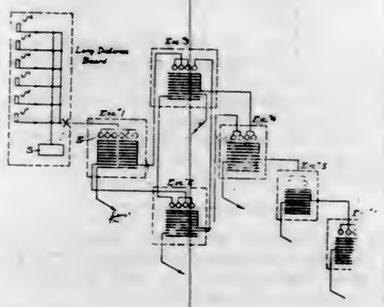
1,681,038. OXFORD EYEGLASSES. HARRY HIGHAM, Newark, N. J. Filed June 14, 1926. Serial No. 115,810. 1 Claim. (Cl. 88—44.)



Folding eye-glasses of the class specified including a pair of lens frames, an elastic bridge having a spring-pivot connection with each frame, and nose-clips for the respective

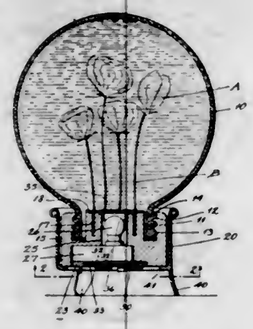
frames each consisting of a pad arranged to lie in a front-to-rear plane and an arm projecting rearwardly from the rear portion of the pad and bent forwardly and being rigidly secured to the corresponding lens frame, said arm adjacent the bend being formed with a rearwardly convex hump, said hump being adapted to cam off the forward portion of the opposite nose pad on contact of said nose clips in passing each other when the eye glasses are folded or unfolded.

1,681,039. AUTOMATIC TELEPHONE TRUNKING SYSTEM. JOHN H. HOMRIGHOUS, Oak Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Dec. 27, 1919. Serial No. 347,844. Renewed May 18, 1925. 25 Claims. (Cl. 179—27.)



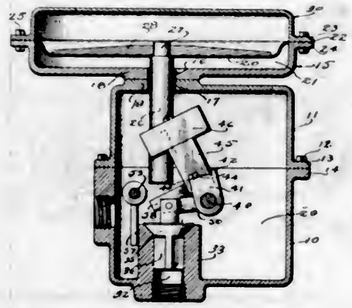
1. In a telephone system, the combination with an operator's position and a series of exchanges, of a trunk line outgoing from said position to the first exchange having a multiple jack for each of said exchanges, an impulse sending device common to said multiple jacks responsive to the insertion of a plug in any jack for transmitting a characteritic series of impulses over said trunk line, a series of switches for extending the said trunk line automatically to the exchange corresponding to the jack in use, the first switch being responsive to the said impulses, and means for automatically repeating a similar series of impulses to each of the other switches.

1,681,040. DEVICE FOR DISPLAYING FLOWERS. EVINA AGHA KEMP, New York, N. Y. Filed May 14, 1924. Serial No. 713,167. 6 Claims. (Cl. 240—2.)



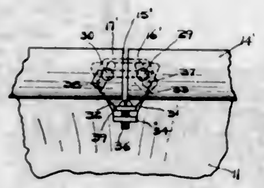
1. A device for displaying flowers and the like, comprising a liquid container having an opening and having a transparent wall, means for sealing said opening, means for holding flowers in display position in liquid within the container, and a source of light adjacent said sealing means said sealing means being formed to permit the passage of light from said source to illuminate the flowers in the container.

1,681,041. GAS CONTROL. CHARLES E. KIMBROUGH, Haynesville, La. Filed Oct. 4, 1927. Serial No. 224,011. 3 Claims. (Cl. 67—115.)



1. A control for a gas system comprising a housing having an inlet and outlet for gas, a valve controlling the outlet, a shaft rockably mounted in the housing, a weighted arm pivotally mounted on the shaft, a lug rigid with the shaft, means connecting the lug with the arm, means under the control of gas pressure for rocking the arm, and means connecting the lug with the valve.

1,681,042. CLOSURE FASTENING. EUGENE A. KUEN, Cincinnati, Ohio, assignor to The Thomas J. Corcoran Lamp Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 28, 1924. Serial No. 728,625. 4 Claims. (Cl. 240—41.)

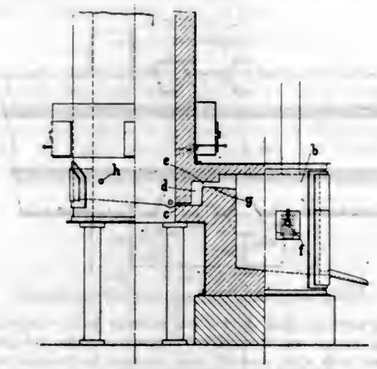


1. A closure fastening in combination with a lamp body, a reflector located in the body, a closure glass adapted to cover the reflector opening, a split closure rim embracing the open end of the lamp body and engaging the closure glass adjacent to its periphery, the ends of the rim having lugs thereon, and a latch having slots therein oppositely inclined to one another and engaged by the lugs, said slots being adapted to effect movement of the lugs therein when the latch is moved.

1,681,043. CUPOLA WITH FOREHEARTH. HUGO LUYKEN, Bielefeld, Germany. Filed Feb. 26, 1924, Serial No. 695,259, and in Germany Mar. 5, 1923. 1 Claim. (Cl. 266—40.)

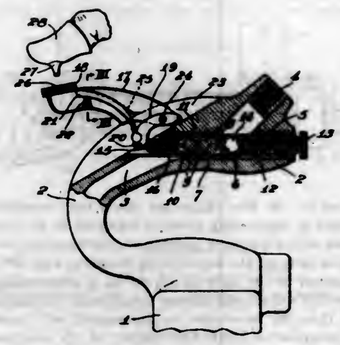
In a furnace comprising a cupola and a fore-hearth, a vertically extending channel having the upper end thereof

in open communication with the upper portion of said fore-hearth, and a passage of restricted cross-section between



the lower end of said channel and the shaft of said cupola, whereby momentary fluctuations of the level of the molten metal in said cupola shaft are damped.

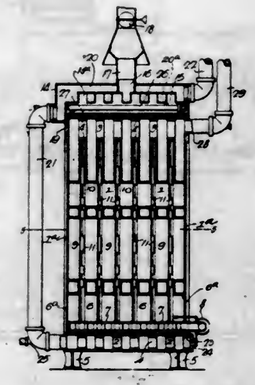
1,681,044. SAFETY TRIGGER FOR PNEUMATIC TOOLS. EMANUEL MALIK, Everson, Pa. Filed Dec. 10, 1927. Serial No. 239,148. 4 Claims. (Cl. 121—35.)



1. The combination with a pneumatic tool having a valve for controlling flow of tool-actuating pressure fluid, of a movable valve-opening trigger borne by said tool, and normally inoperative means associated with the trigger for opening said valve upon the movement of the trigger, said means being rendered effective for said purpose solely upon the insertion of a key in the trigger prior to the movement of the trigger.

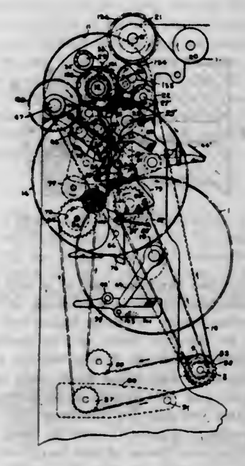
1,681,045. GAS-FIRED BOILER. ALEXANDER A. MARKS, Philadelphia, Pa. Filed Jan. 7, 1922. Serial No. 527,791. 9 Claims. (Cl. 122—210.)

I. In an apparatus of the class described, the combination of a series of similar parallel thin hollow heating units adapted to contain water, the said units being slightly separated at their central portions and at their tops and bottoms to provide vertically extending flues for hot gases and the said units being provided with transverse openings in register with each other to form a chamber extending from end to end of the series and surrounded on all sides by the water spaces of the said units, means for closing the chamber at the ends, means for connecting the interiors of the heating units at the tops and bottoms, and a heating device located in the chamber, the said heating device receiving



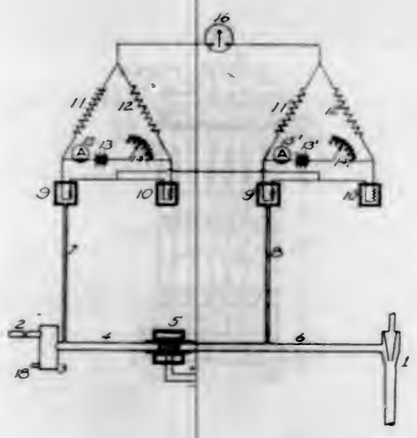
preheated air through the spaces between the bottoms of the units and delivering hot gases to the flues between the upper parts of the units.

1,681,046. PAPER-ROLLING MACHINE. WILLIAM FRANKLIN MARRESFORD, Niagara Falls, N. Y. Filed Nov. 19, 1924. Serial No. 750,750. 25 Claims. (Cl. 242—55.)



1. In a paper rolling machine a plurality of roll forming rollers grouped about a central space adapted to form a roll within said central space from a paper strip, means for supplying the paper strip to the roll forming rollers, and means for forming a fold in the paper strip at a substantial distance from its end and forming the folded portion of the strip into a core.

1,681,047. GAS-ANALYSIS APPARATUS. CLARENCE H. PORTER, Washington, D. C. Filed Oct. 11, 1924. Serial No. 743,114. 2 Claims. (Cl. 23—255.)



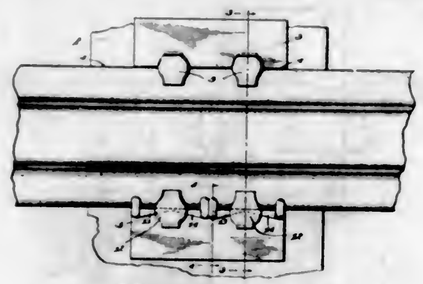
1. In a gas analysis apparatus, electrical means responsive to the thermal conductivity of a gas sample, means adapted to cause combustion of the sample, second electrical means responsive to the thermal conductivity of the burned gas, and a single galvanometer adapted to be actuated by the combined effects of both said electrical means.

1,681,048. BOLT FASTENING. LE ROY PURCELL, Judson, Ind. Filed Jan. 12, 1926. Serial No. 80,841. 1 Claim. (Cl. 85—32.)



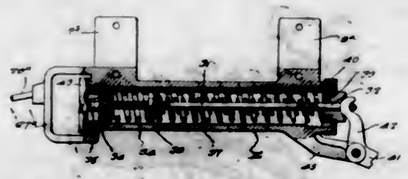
A fastening for the threaded end of a bolt and adapted to be wholly embedded in formed opening in the material, comprising a conical body with an inner end face and an outer end face of circular form and in parallel relation, the outer end face accurately fitting within the outer end of the formed opening and being flush with the surface of the material, and fins projecting in diametrically-opposed relation from and beyond the inclined side wall of the fastening, the respective ends of each fin being in alinement with the respective end faces of the body, the diameter of the fastening taken through the fins being uniform for the full length of the fastener, the outer faces of the fins being triangular with their apices in alinement with the inner face of the body and their bases in alinement and merging into the contour of the outer face of the fastener, whereby the fins present a sharp end in alinement with and extending in both directions beyond the inner face of the fastener and are of gradually decreasing thickness and of gradually decreasing width from the inner face to the outer face of the body.

1,681,049. RAIL-FASTENING DEVICE. HENRY H. RENFROE, Rocky Mount, N. C. Filed Sept. 29, 1927. Serial No. 222,870. 8 Claims. (Cl. 238—304.)



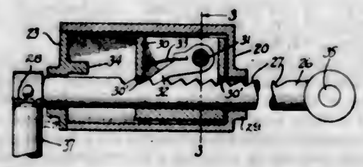
8. An anti-creeping device for railway rails comprising a spring metal bar formed as opposed wedges integrally connected at a thin central apex portion to present inner and outer faces reversely tapering to the apex portion, and having upward extensions adjacent to its opposite ends, with offsets thereon to overlie the top of the rail base.

1,681,050. SPRING SUSPENSION OR SHOCK ABSORBER FOR VEHICLES. JOSEPH ROBINSON, Santa Monica, Calif., assignor, by mesne assignments, to Russell Sutherland Smart, Ottawa, Canada. Filed Nov. 19, 1923. Serial No. 675,759. 2 Claims. (Cl. 267—20.)



1. A device of the character described comprising in combination a supporting member adapted to be secured to the chassis of a vehicle; a pivoted rocker-arm pivoted intermediate its ends on the supporting member, and having one end connected to the axle of a vehicle, a supporting spring acting on the other end of the lever, said spring being so designed that its resistance to movement will increase in greater progression than the extent of its compressional movement; and a rebound checking spring connected to the side of said other end of the rocker-arm opposite to that to which the load supporting spring is connected.

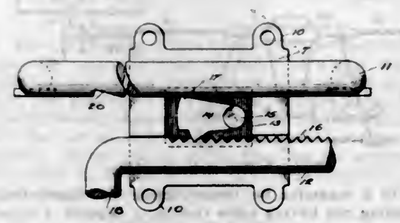
1,681,051. REGULATOR FOR BRAKE RIGGING. WILLIAM H. SAUVAGE, New York, N. Y., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 27, 1926. Serial No. 157,168. 20 Claims. (Cl. 188—197.)



1. A regulator for the brake rigging of railway cars comprising a relatively fixed member adapted to be rigidly secured to the draft sill of a railway car, a take up mecha-

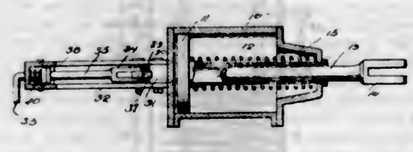
nism adapted to be connected with the brake rigging including a rod passing thru said member, holding means coacting with said rod and enclosed within said member, said holding means having a limited range of free floating movement prior to performing any take up function.

1,681,052. REGULATOR FOR BRAKE RIGGING. WILLIAM H. SAUVAGE, New York, N. Y., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 22, 1927. Serial No. 177,365. 10 Claims. (Cl. 188—200.)



1. In a manually operated regulator for truck brake rigging, in combination, a support, a regulating rod in parallel position, and a regulator casing having a detent housed therein adapted to engage with said rod and be held in positive engagement therewith by said support, one of said parts having means permitting relative separation of the detent and rod during the regulating movement of the device.

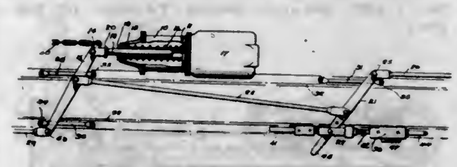
1,681,053. BRAKE-RIGGING REGULATOR. WILLIAM H. SAUVAGE, New York, N. Y., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y., a Corporation of Delaware. Filed June 1, 1927. Serial No. 196,713. 18 Claims. (Cl. 188—200.)



1. In combination with foundation brake gear including a cylinder and cylinder levers, a regulator therefor, including a moveable support for one of the cylinder levers associated with the cylinder and having a lost motion device associated therewith whereby the rear lever may be moved manually a predetermined distance proportional to brake shoe clearance and prior to the actuation of the regulator.

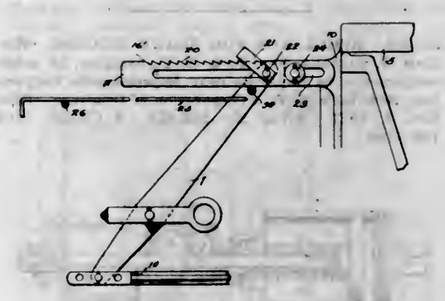
1,681,054. FOUNDATION BRAKE RIGGING. WILLIAM H. SAUVAGE, New York, N. Y., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 17, 1927. Serial No. 213,611. 15 Claims. (Cl. 188—200.)

1. In a foundation brake rigging of the character described, in combination, an air-brake cylinder, cylinder levers, a piston movable within the cylinder and connected with one of the levers, and a single manually actuated member on the car frame and connected with one of the cylinder levers and acting as a fulcrum therefor but capable of relative free movement in one direction an amount proportional to brake shoe clearance of both trucks, as well as an additional movement for the purpose of permanently



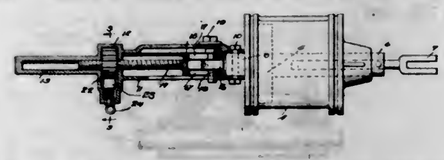
taking up and holding any excess movement of the brake shoes of both of the trucks beyond their predetermined clearance travel.

1,681,055. REGULATOR FOR BRAKE RIGGING. WILLIAM H. SAUVAGE, New York, N. Y., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 1, 1927. Serial No. 230,347. 11 Claims. (Cl. 188—200.)



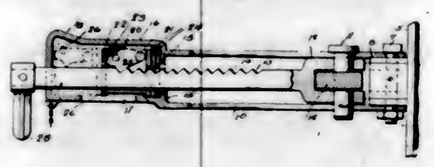
1. In a regulator for foundation brake rigging, including brake levers and limiting stop means therefor, in combination, a truck bolster having supporting means thereon, a lever fulcrum having a lost motion connection with said supporting means and having a ratchet surface, and a pawl at one end of one of the brake levers in operative engagement with said ratchet and adapted to move relatively to said fulcrum when regulation of the brakes involving movement in excess of that permitted by the lost motion connection takes place.

1,681,056. REGULATOR FOR BRAKE RIGGING. WILLIAM H. SAUVAGE, New York, N. Y., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 1, 1927. Serial No. 230,348. 7 Claims. (Cl. 188—202.)



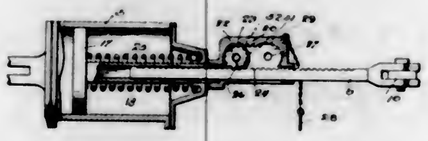
1. In a manually actuated regulator of the character described, in combination, a lever, one end of which is adapted to be supported by the regulator, said regulator including a housing, a high pitch threaded rod in said housing having a lost motion connection with the lever, and pawl and ratchet mechanism associated with said threaded rod for absorbing movement of the lever in excess of the lost motion.

1,681,057. REGULATOR FOR BRAKE RIGGING. WILLIAM H. SAUVAGE, New York, N. Y., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 1, 1927. Serial No. 230,349. 7 Claims. (Cl. 188—200.)



1. In combination with a lever of the foundation brake gear, a regulator therefor including a ratchet bar, a freely floating pawl cooperating with said ratchet bar, and means for holding said pawl in unyielding engagement with said ratchet bar except during the regulating operation.

1,681,058. REGULATOR FOR BRAKE RIGGING. WILLIAM H. SAUVAGE, New York, N. Y., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 1, 1927. Serial No. 230,350. 8 Claims. (Cl. 188—198.)



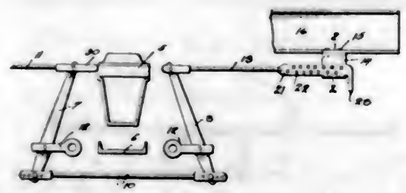
1. In combination with a brake rigging, a lever having a normally fixed point of support, means for changing said fixed point of support comprising a rod operatively associated with said lever and having a rack thereon, a casing enclosing a portion of said rod and rack and having therein a rack surface, and a pinion mounted in said casing and meshing with both of said racks, one of the racks being interrupted, whereby the pinion may rotate free on said interrupted rack while in mesh with the other rack.

1,681,059. REGULATOR FOR BRAKE RIGGING. WILLIAM H. SAUVAGE, New York, N. Y., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 12, 1927. Serial No. 232,885. 6 Claims. (Cl. 188—200.)



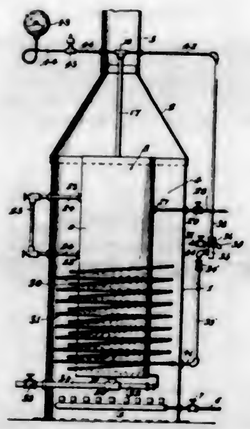
1. In combination with a lever of the foundation brake gear, a variable regulator therefor including an adjusting rod having ratchet teeth thereon, a freely floating cage resting on said rod, and a pawl mounted in said cage and abutting an end wall thereof for engagement with said ratchet teeth, said adjusting rod having a substantially circular cross section whereby, upon turning of said rod, the pawl is disengaged from said ratchet.

1,681,060. REGULATOR FOR BRAKE RIGGING. WILLIAM H. SAUVAGE, New York, N. Y., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 16, 1927. Serial No. 240,464. 20 Claims. (Cl. 188—197.)



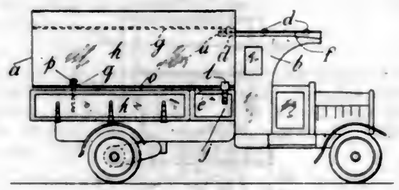
1. In a regulator for brake rigging, in combination, a regulating rod having holes therein, a support, a member cooperating with said support and rod including a pin and slot holding means providing a lost motion movement relative to said support substantially proportional to total brake shoe clearance.

1,681,061. STEAM-GENERATING APPARATUS. JOE S. SEABOALT, Abilene, Tex. Filed Oct. 4, 1926. Serial No. 139,426. 1 Claim. (Cl. 122—245.)



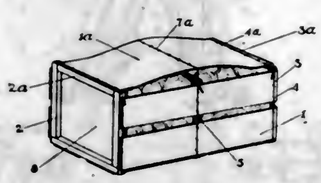
An apparatus for producing wet steam comprising a vertically disposed jacket, a burner arranged within and at the lower portion thereof, a steam boiler positioned within the jacket and arranged over and above the burner, a pair of concentrically arranged, vertically disposed sets of coils opening into each other at the top thereof, positioned within the jacket and surrounding the lower portion of the boiler, means positioned over the burner for establishing communication between the lower coil of the inner set of coils and the bottom of the boiler, a supply line extending into the casing and opening into the lower coil of the outer set of coils, a water line leading to the supply line, a steam supply line leading from the top of the boiler, extending from the jacket and communicating with the water supply line, a wet steam delivery line extending from one side of the boiler above said sets of coils and projecting from the jacket.

1,681,062. COVER FOR VEHICLES. JOHN HERBERT SPARSHATT, Portsmouth, England. Filed Aug. 17, 1925, Serial No. 50,672, and in Great Britain Apr. 16, 1925. 9 Claims. (Cl. 296—100.)



1. The combination with a vehicle body provided with a rearwardly extending load platform, of a tilt slidably mounted on said vehicle body, a runway for said tilt at each side of said platform, and additional runways for said tilt located forwardly of said platform and in a horizontal plane above that of the first mentioned runways, whereby the weight of said tilt may be shifted from one set of runways to the other, as the tilt is slid forward to clear said platform or backward to cover same.

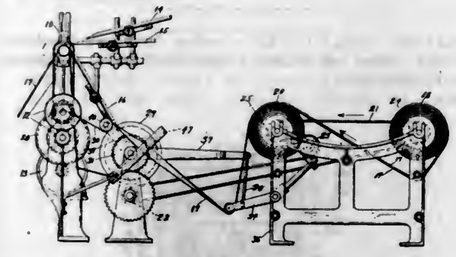
1,681,063. SHIPPING CRATE. ROSCOE STEELE, Rockaway Borough, N. J., assignor to Wirebounds Patent Company, a Corporation of Maine. Filed Dec. 24, 1926. Serial No. 156,872. 3 Claims. (Cl. 217—43.)



1. A wirebound bulge-pack crate comprising cleat-reinforced side and bottom sections connected together in foldable relationship by binding wires secure to and extending across the several sections, the cleats being located adjacent the ends of the sections, and a separate cleated top section secured to the side sections by wires stapled to the top section and tensioned over the cover corners of the crate and intertwisted with the wires on the side sections, the top section being longer than the side and bottom sections to permit the top section to bulge upward, and the cleats of the top section being located adjacent the ends thereof and constructed and arranged to fit between the cleats of the side sections and to shift relative to said side cleats in accordance with variations in the bulge of the top section; whereby the top section will maintain a constant pressure on the contents of the crate and accompany a settling movement thereof.

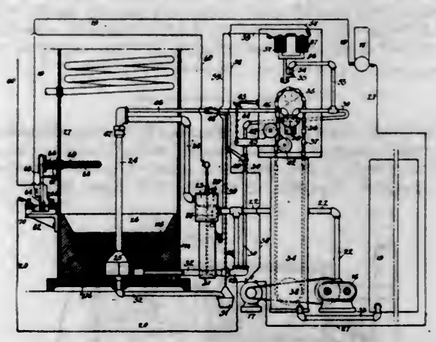
1,681,064. STOCK-WIND-OFF MECHANISM. HORACE D. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 18, 1927. Serial No. 176,445. 5 Claims. (Cl. 242—55.)

1. The combination of a wind-off mechanism for strip material, with driven apparatus into which said strip is drawn, which comprises a rotatably supported supply reel carrying a plurality of laterally spaced bands of said strip material with a liner, a rotatably supported liner receiving reel adjacent thereto, means intermediate the apparatus and said liner receiving reel for driving the latter from said apparatus, means riding upon a single band of the strip material between the reels and said apparatus for varying the speed of the liner reel in accordance with the tension in the strip material, and means for rotating the reels in either of reverse directions, whereby as the liner end is



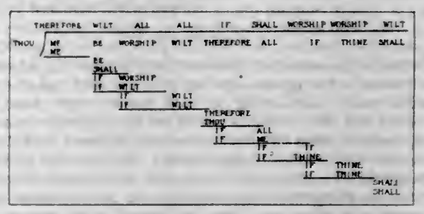
reached the directions of the reels may be reversed and the liner receiving reel may become the supply reel as another band of strip material is removed therefrom.

1,681,065. OIL-BURNING SYSTEM. ALDEN AARON STEWARD, Rutland, Vt. Filed June 27, 1924, Serial No. 722,768. Renewed July 5, 1928. 12 Claims. (Cl. 158—28.)



1. An oil burning system comprising an air and oil burner, an air and oil igniter therefor, air supply pipes leading to the burner and its igniter respectively, an oil measuring and delivering device including a basin, a transverse partition having a hinged upper wing, dividing the basin into two compartments into both of which the oil is delivered, and oil supply pipes leading from said respective compartments to the burner and igniter.

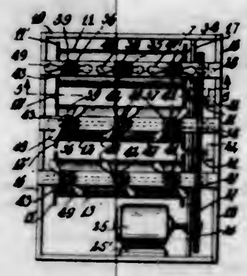
1,681,066. CRYPTOGRAM. WARREN R. SUMMERS, San Diego, Calif. Filed Mar. 1, 1926. Serial No. 91,654. 3 Claims. Cl. 283—17.)



1. A sheet bearing a cryptogram comprising words arranged and grouped in accordance with a solved problem in mathematics in which the numerals constituting the

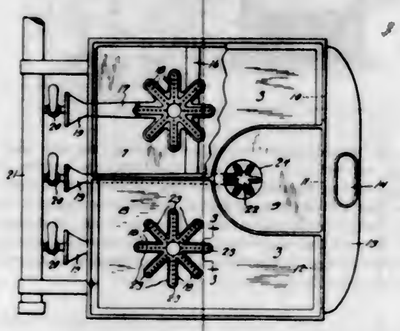
fundamental and resultant components of the solved problem are selected digit numerals assigned consecutively to a series of words constituting a base.

1,681,067. HELICOPTER. RALPH TARSHIS, Brooklyn, N. Y. Filed July 7, 1927. Serial No. 203,991. 4 Claims. (Cl. 244—19.)



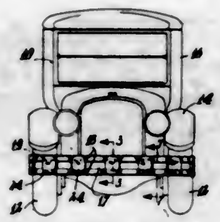
4. A device of the class described comprising a frame, a plurality of spaced apart cylinders rotatively mounted in said frame and a plurality of propellers adapted to produce a forced draft of air substantially at right angles to the longitudinal axis of said cylinders.

1,681,068. GAS RANGE. THOMAS E. TAYLOR, Mansfield, Ohio, assignor to The Tappan Stove Company, Mansfield, Ohio, a Corporation of Ohio. Filed Nov. 3, 1926. Serial No. 145,971. 2 Claims. (Cl. 126—39.)



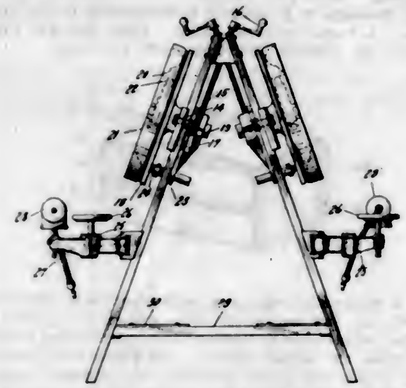
2. A gas range of the character set forth comprising a frame substantially rectangular in shape and provided with a closed cooking top, a bottom plate disposed below said top and spaced therefrom to define an underlying combustion chamber, said bottom plate having a partition dividing the combustion chamber into a plurality of compartments, a flue communicating with the rear end of each compartment, the bottom of each compartment near its forward end only being provided with a plurality of narrow radially disposed slots, a burner disposed below the forward end of each compartment, each burner having a plurality of single rows of gas orifices disposed centrally of and in alignment with said slots to project flame jets through said slots and being so spaced with respect to the edges of said slots as to permit secondary air to enter each compartment along both sides of the flame jets adjacent the bases thereof whereby to promote combustion and to prevent noxious emanations.

1,681,069. SAFETY BUMPER FOR VEHICLES. ARISTEDE A. THEODOROPULOS, New York, N. Y. Filed Nov. 26, 1927. Serial No. 235,783. 5 Claims. (Cl. 293—55.)



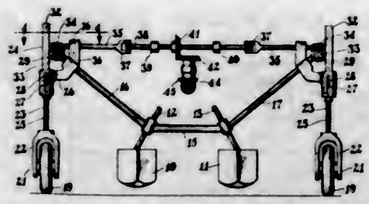
3. In combination with automobile front or rear bumpers including horizontal bars, spaced connectors between the bars, and formed with recesses, shock absorbers fitted in the recesses and caps on top of the shock absorbers.

1,681,070. ADJUSTABLE SUPPORT OR EASEL. CURT USCHMANN, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Jan. 18, 1927. Serial No. 161,846. 2 Claims. (Cl. 29—89.)



1. A supporting stand comprising, a frame, a cross arm slidably mounted thereon, means for vertically adjusting the cross arm, a work table revolvably mounted on the cross arm, a roller attached to the cross arm and engaging the back of the work table to give added support thereto, and a spider attached to said table for centering annular objects thereon.

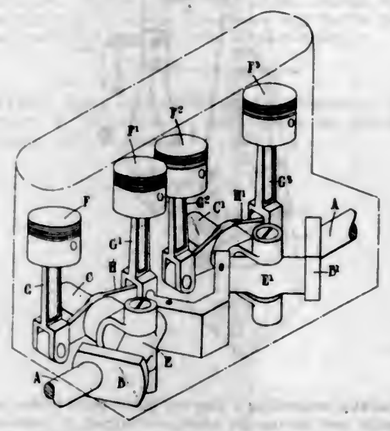
1,681,071. SEA AND LAND AEROPLANE. STEPHEN VITÁNYI, Rockaway Beach, N. Y. Filed July 7, 1927. Serial No. 203,994. 2 Claims. (Cl. 244—2.)



1. In a sea and land aeroplane, the combination with inclined struts connected to support pontoons to the wings of the aeroplane, of brackets secured to the said

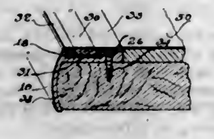
struts, and formed with elongated apertures vertically arranged, vertical shafts slidably arranged in the said brackets, pins secured to and extended from the shafts and engaging in the said elongated apertures, and landing wheels connected to the said vertical shafts, as a means for supporting the said landing wheels so as to be vertically movable.

1,681,072. MULTICYLINDER RECIPROCATING ENGINE, PUMP, AND COMPRESSOR. RICHARD EDWARD WATTS, Stamford, England. Filed Feb. 1, 1924. Serial No. 690,006, and in Great Britain July 17, 1923. 3 Claims. (Cl. 74—14.)



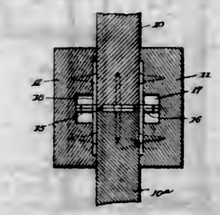
1. A multi-cylinder reciprocating engine comprising a crank shaft, crank pins comprised in the shaft and arranged with their axes intersecting the axis of the crank shaft obliquely, oscillatory members at right angles to the crank shaft and communicating rotary motion to the said crank shaft, beams on the oscillatory members, pistons respectively connected to opposite ends of the said beams, and cylinders in which the said pistons work arranged with their axes at right angles to the oscillatory members and to the crank shaft and so that the centre of gravity of two pistons respectively connected to different beams, and which move in the same direction at the same time, moves in the same line as the centre of gravity of the other two pistons respectively connected to the opposite ends of the same beams.

1,681,073. STAIR NOSING. HAROLD ASHLEY WELCOME, Lowell, Mass., assignor to American Mason Safety Tread Company, Lowell, Mass., a Corporation of Massachusetts. Filed Feb. 3, 1928. Serial No. 251,597. 6 Claims. (Cl. 20—79.)



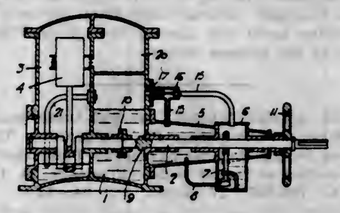
1. A stair tread comprising a strip of rigid material properly contoured in cross section to fit and cover the upper forward corner of a stair tread, an upstanding rib formed upon said strip producing an undercut shoulder, means to secure said strip in position upon the stair tread, a second strip of material having an edge contoured complementary to the undercut shoulder and provided with a furrow having undercut walls, a traction increasing material filling the furrow, and means to secure the second mentioned strip with the complementary parts in co-acting relation.

1,681,074. SECTIONAL PARTITION AND PANEL STRUCTURE. FRANK B. WHEAT, Los Angeles, Calif. Filed Dec. 29, 1927. Serial No. 243,335. 8 Claims. (Cl. 20—4.)



1. A sectional partition or panel structure comprising two juxtaposed sections, a pilaster separable from the sections and overlying the joint between the same, a locking element on said pilaster and cooperating locking elements on both sections engageable with the one locking element on the pilaster for locking said pilaster to said sections, the engagement between said locking elements being such as to prevent movement of the partition sections away from one another.

1,681,075. METHOD OF AND MEANS FOR GAS-TIGHT SEALING OF SHAFTS. RUDOLF HEINRICH WIEGERT, Magdeburg, Germany. Filed May 22, 1926, Serial No. 111,080, and in Sweden Apr. 8, 1924. 3 Claims. (Cl. 286—19.)

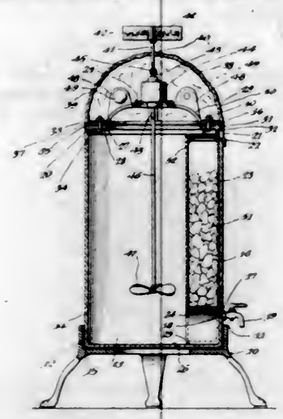


1. A sealing device without solid packing material for a rotating shaft projecting through the wall of a gas tight chamber, comprising a closed receptacle surrounding the shaft at the point where it projects through the chamber and adapted to contain a pressure medium, means for supplying the medium to the receptacle from a source other than the chamber, automatic means for regulating the pressure of the medium in perfect conformity to the pressure existing within said chamber and a valve in connection with said shaft and adapted to be controlled by the last named pressure.

1,681,076. COMBINATION CONTAINER AND COOLER. JEROME I. WOHL, Chicago, Ill., assignor to David Wohl, Gary, Ind. Filed Dec. 6, 1926. Serial No. 152,962. Renewed June 28, 1928. 4 Claims. (Cl. 225—40.)

2. In a combination container and cooler, a receptacle having an open end portion, means permitting dispensing of a beverage from within the receptacle, a cooler within the receptacle, a plate having an annular flange resting upon the edge of the open end portion of the receptacle of a dome-shaped closure for the open end portion and having a peripheral edge resting upon the peripheral flange of the plate, a base supported by the plate and having up-standing lateral ears, lighting elements carried by the

ears, an electrically operated element supported by the base, a shaft operable by the element and extending exterior of the dome, sign elements carried by said shaft,

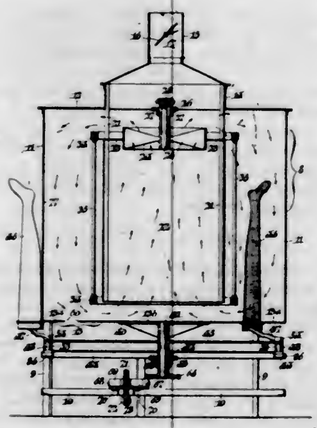


a second shaft operable by the element and depending within the receptacle, and an agitator carried by the lower end portion of said second shaft.

1,681,077. MANUFACTURE OF HIGHLY-CHLORINATED PERYLENES. ALOIS ZINKE and KONRAD FUNKE, Graz, Austria, assignors to Felice Bensa, Genoa, Italy. Filed June 7, 1927, Serial No. 197,229, and in Austria Apr. 2, 1927. 5 Claims. (Cl. 260—161.)

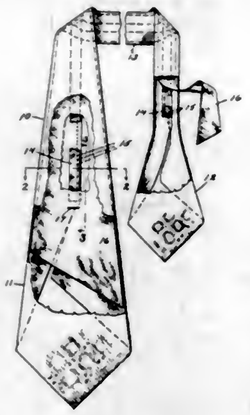
1. A process for manufacturing highly chlorinated perylenes, that is say hepta-to dodeka chloroperylenes consisting in intimately mixing an inert liquid solvent, perylene and an inorganic chloride adapted to act as a chlorine transferring agent and passing through such mixture a current of dry gaseous chlorine.

1,681,078. FABRIC DRIER. THOMAS ALLSOP and WALTER W. SIASON, Philadelphia, Pa., assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 15, 1924. Serial No. 706,650. 27 Claims. (Cl. 34—12.)



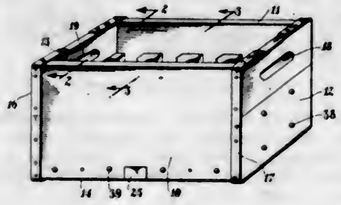
1. A fabric drier including an annular enclosure through which the articles to be dried are advanced, means intermittently conveying a series of vertically pivoted form-supporting members through said enclosure, and means for laterally swinging said members counter-and-clockwise by substantially equal degrees about their pivots for presentation exteriorly of the enclosure to effect stripping and replacement of the articles.

1,681,079. MACHINE-STITCHED CRAVAT OR TIE. ALFRED A. BAKER, Buffalo, N. Y. Filed July 8, 1926. Serial No. 121,241. 1 Claim. (Cl. 2—146.)



A necktie comprising a bias cut fabric piece folded longitudinally and having its edges overlapped, a reinforcing tape extending throughout the major portion of the length of the tie beneath said lapping edges, said lapping edges and said reinforcing tape being secured together by loose machine stitching, and a bias cut filler located within the tie and secured thereto at a single point beyond one end of the reinforcing tape.

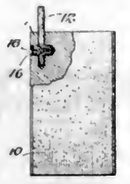
1,681,080. SANITARY MILK-BOTTLE CONTAINER. SAMUEL J. BAILEY, Nicholson, Pa. Filed Aug. 12, 1927. Serial No. 212,444. 1 Claim. (Cl. 217—22.)



In a container for bottles and the like, sides and ends for the container, a series of transverse partitions relative to the sides, the said ends and the said partitions being formed with transverse curved recesses for accommodating bottles, and also with longitudinal slots for forming chambers for the storing of refrigerants.

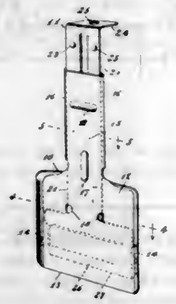
1,681,081. JOINT. WALTER BAILEY, Washington, D. C. Filed Nov. 11, 1927. Serial No. 232,658. 2 Claims. (Cl. 171—326.)

1. A member having a hole therein, a flexible member having an end portion thereof engaged in said hole, and compressible means consisting of a wad of promiscuously intermingled inherently resilient strands of conductive material of indefinite shape and length having a constant tendency to expand when compressed, compressed in said hole



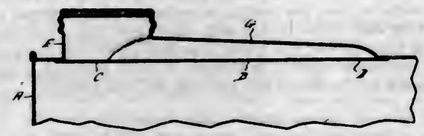
against said flexible member and acting through its constant tendency to expand to maintain said flexible member firmly connected with said first mentioned member.

1,681,082. SINK CLEANER. HENRY BAMBERGER, Brooklyn, N. Y. Filed June 17, 1927. Serial No. 199,561. 1 Claim. (Cl. 15—105.)



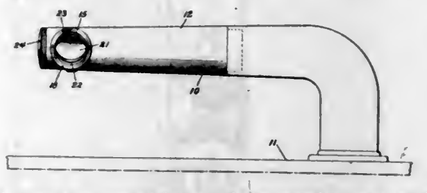
A device of the class described comprising a shovel element, and a scraper element, said shovel element consisting of a shovel body having an effective edge, side flanges, a handle, and tongues, said handle having a channel at each side, said scraper element consisting of an offset portion having prongs, a handle having a manipulating portion connected with said offset portion, and a scraper member embodying an effective edge arranged on said offset portion with the prongs impaling said scraper member, the handle of the scraper element received between the channels and tongues respectively on said shovel body and handle thereof to connect the shovel element and scraper element together for relative movement to optionally dispose the effective edge of the shovel body or scraper member in an effectual position, the scraper element being arranged at the back of the shovel element, and the scraper member being in contact with the shovel body.

1,681,083. NOZZLE FOR SHEET-METAL CONTAINERS. HENRY EDWARD BARROLL, Winnetka, Ill., assignor to Williams Sealing Corporation, Decatur, Ill., a Corporation of Illinois. Filed Jan. 17, 1925. Serial No. 3,108. 1 Claim. (Cl. 221—28.)



A filling can of the class described having a discharge opening and a vent opening in its top wall, said discharge opening being substantially arcuate in shape, a nozzle secured to said top wall and embracing the discharge and vent openings, the aggregate areas of said discharge and vent openings being less than the area of the mouth of the nozzle whereby the liquid flowing through the discharge opening and mouth of the nozzle will assume a shape which will provide a space for the ingress of air through the nozzle and vent opening.

1,681,084. TONE ARM. LEON BAXTER, Brooklyn, N. Y. Filed Nov. 28, 1924. Serial No. 752,773. 1 Claim. (Cl. 179—100.1.)



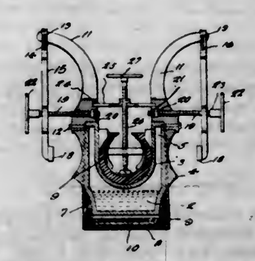
A tone arm comprising a tubular member open at its outer end and having a pair of oppositely disposed nipples provided thereon and constituting a pair of ports in communication with the interior of said tubular member, said nipples adapted to support a pair of acoustical instruments, a sleeve rotatably supported in the outer open end of said tubular member and having an opening therein for registering with either of said ports, a manipulating head on said sleeve extending beyond the end of said tubular member, said sleeve having a slot therein, and a pin extending from said tubular member into said slot for aligning said opening with either of the respective ports upon the limit of turning movement of said sleeve in opposite directions.

1,681,085. FLASK FOR CENTRIFUGAL SAND MOLDS. WILLIAM H. BEATTY, Birmingham, Ala., assignor, by direct and mesne assignments, to Beatty, Palmer and Beatty, a Partnership composed of William Henry Beatty, Clarence J. Palmer, and William H. Beatty, Birmingham, Ala. Filed May 12, 1927. Serial No. 190,800. 7 Claims. (Cl. 22—65.)



1. A flask of the character described slit longitudinally to provide for a limited contraction thereof, lugs along one edge of the slit portion of the flask which are adapted to overhang the other edge portion, and means to contract the flask, bringing its edges into abutting relation under said lugs, substantially as described.

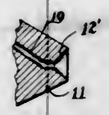
1,681,086. VULCANIZER. THOMAS BELL, Richmond, Va. Filed May 13, 1927. Serial No. 191,157. 3 Claims. (Cl. 18—18.)



1. A vulcanizer comprising a hollow metal block having arcuate projections on the sides thereof which are concaved longitudinally to provide side molds and having an in-

wardly extending mold in the top thereof, presser plates movable into the central inwardly extending and the concaved side molds, and means for heating the block.

1,681,087. BALL-BEARING CENTER FOR MACHINES. FRITZ HEINRICH BECKER, Irvington, N. J. Filed Apr. 21, 1927. Serial No. 185,638. 3 Claims. (Cl. 82—33.)



1. A machine tool center of the class described comprising a tapered rear section and a tapered forward section, a concave seat formed in the forward extremity of said forward section, a ball disposed on said concave seat, a retaining member comprising a disc having an aperture therein for receiving said ball mounted on the forward extremity of said center adapted to retain said ball on said seat in projecting relation to the extremity of said center, extensions integral with said disc disposed adjacent the tapered surface of said forward section comprising hooked extremities disposed in a groove formed in said center, and a spring ring member disposed in said groove above said hooked extremities for removably securing said retaining member on said center.

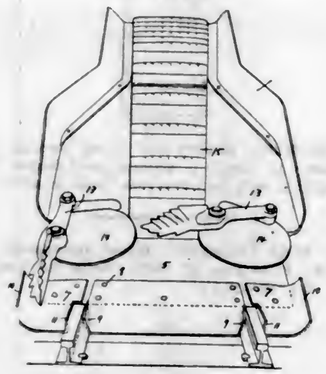
1,681,088. APPARATUS FOR DYEING YARN. LOUIS BOUNOUS, Valdese, N. C. Filed Nov. 3, 1927. Serial No. 230,849. 1 Claim. (Cl. 242—118.)



An apparatus of the character described, comprising a perforated metal yarn receiving bobbin adapted to fit over a spindle or a dye directing pipe, said bobbin having a serrated end adapted to engage a correspondingly shaped part on a spindle or tube to lock the parts against independent turning.

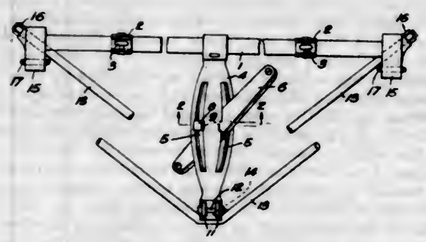
1,681,089. TRACK-CLEANING ATTACHMENT FOR LOADING MACHINES. EDWARD BOTTOMLEY and FRANK WELCH, Sheridan, Wyo. Filed Sept. 7, 1927. Serial No. 218,084. 2 Claims. (Cl. 198—7.)

1. In combination, a coal loading machine, said machine comprising among other elements a gathering head, a central plate fixed to the gathering head and projecting forwardly therefrom, and a plate attached to each side of the gathering head in spaced relation to the central plate, the



forward end corners of the central plate being directed upwardly, the forward inner corners of the side plate being bent upwardly.

1,681,090. BRAKE-BEAM ASSEMBLY. HENERY MURLEY BOWDEN, Allandale, Ontario, Canada. Filed May 29, 1925. Serial No. 33,800. 1 Claim. (Cl. 188—232.)

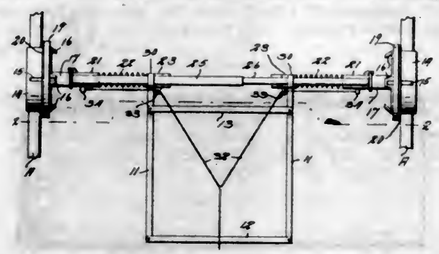


In a brake beam assembly, the combination with the beam, of a strut therefor having two longitudinal slots extending through the strut and intersecting each other at substantially right angles, said slots having opposed corresponding indentures in the side walls at top and bottom of each, such indentures being positioned intermediately of the length of the slots, a lever extending through a slot in the beam, a pivot pin having an enlarged head inserted in opposed indentures in the slot, said pivot pin extending freely through slot and lever, a washer on the pin inserted into the other opposed indentures in such slot and a nut threaded on the end of the pin engaging the washer.

1,681,091. TRACK-GAUGE INDICATOR. LESLIE RAY BRYANT, Hattiesburg, Miss., assignor of one-half to Walter Liston Bass, Hattiesburg, Miss. Filed Jan. 20, 1927. Serial No. 162,357. 5 Claims. (Cl. 33—144.)

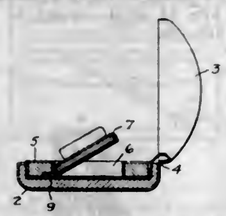
1. A track gauge indicator comprising a frame and an axle on the frame, wheels mounted upon the axle and

adapted to engage the rails of the track, annular gauging rims associated one with each wheel and concentric to the axis thereof, rotatable with the wheel but movable longi-



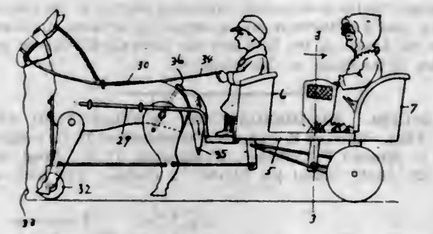
tudinally of the axle independently of the wheel, and means mounted upon the frame for indicating the longitudinal movement of the rims relative to each other.

1,681,092. DISPLAY BOX. JOSEPH BULOVA, New York, N. Y., assignor to Bulova Watch Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 24, 1927. Serial No. 177,934. 4 Claims. (Cl. 206—75.)



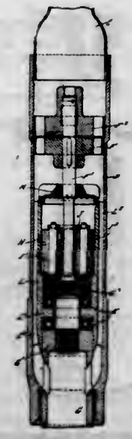
2. A jewelry display box having a tray and a hinged cover, a display carrier adapted to occupy an uptilted position on said tray, and a stiff supporting tongue fixed to and projecting forward from said display carrier at an angle thereto, the tray having a forward portion providing a recess into which said tongue is adapted to be entered to support the display carrier in its inclined position, and from which the tongue is disengageable by shifting the display carrier rearward to enable the display member to be removed.

1,681,093. FIGURE WHEELED TOY. ANTON CAPEK, Ord, Nebr. Filed Apr. 26, 1928. Serial No. 273,017. 1 Claim. (Cl. 46—45.)



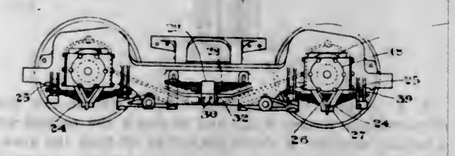
In a figure wheeled toy of the character described, a cart construction having front and rear seating arrangements, a figure disposed within the front arrangement, a figure having its body pivoted within the rear seat arrangement said body having pivotal legs and arm members attached thereto, a crib pivoted to the floor of the cart in front of the rear figure, connections between the crib and the front ends of the arms of said figure, an axle shaft arranged beneath the cart and having supporting wheels upon the opposite ends thereof, and means for supporting the forward end of the cart and means between the axle shaft and said crib to cause the rocking of the crib and the simultaneous rocking of the said rear figure during rotation of the axle shaft.

1,681,094. APPARATUS FOR BORING WELLS AND THE LIKE. MATVEY ALCUNOVITCH CAPELIUSCHNICOFF, Baku, Russia. Filed Aug. 18, 1924, Serial No. 732,779, and in Great Britain Sept. 11, 1923. 4 Claims. (Cl. 255—4.)



1. In well-drilling apparatus of the character described, the combination of a hollow drill head, an axial flow hydraulic turbine having a fixed ring screwed into the hollow drill head, a bearing within the said guide ring, a rotor spindle journalled at its upper end in said bearing, a drill socket member journalled in the lower end of the hollow drill head, an inner sleeve secured to the drill head and having an internally toothed portion, planetary gears journalled on stub shafts carried by the drill socket member and a gear wheel on the hydraulic turbine rotor spindle meshing with said planetary gears.

1,681,095. TRUCK CONSTRUCTION. WILLIAM F. J. CASEY and GUSTAVE CAVIN, Kingston, Ontario, and CHARLES E. BROOKS, Montreal, Quebec, Canada. Filed Apr. 30, 1927. Serial No. 187,853. 7 Claims. (Cl. 105—194.)

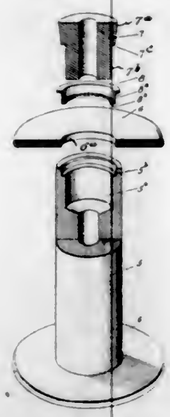


1. In a locomotive truck, a truck frame, journal bearings slidably mounted in the frame, axles rotatably mounted in the bearings, travelling wheels attached to the axles between the bearings, springs beneath the bearings, one end of each of the springs engaging with the frame, equalizer beams pivotally secured to the frame, each being attached at one end to the free end of the bearing spring, shock absorbing springs mounted on the frame between adjacent ends of the equalizer beams, and means connecting the adjacent ends of the beams to the ends of the equalizer springs.

1,681,096. SPOOL AND BOBBIN. HARRY D. CLINTON, Johnson City, N. Y. Filed Sept. 13, 1927. Serial No. 219,301. 8 Claims. (Cl. 242—124.)

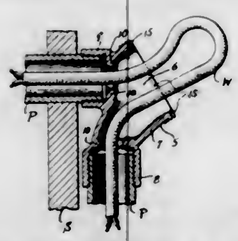
1. A spool or bobbin comprising a wooden barrel having a central shouldered recess in each end, hard composition heads faced against the ends of the barrel and having central apertures registering with the shouldered recess therein, thin metallic bushings extending through said heads and into the barrel ends and having serrated marginal flanges extending oppositely from opposite ends thereof

with their outward extending flanges over-engaging the apertured edges of the heads and their inward extending flanges pressing against the shouldered portions of the barrel, and wooden plugs at each end of the barrel having



enlarged tapering head-portions compressed into said bushings to expand the latter outwardly against the barrel walls and shank-portions fitting into the recesses of the barrel, said plug being driven into place by the application of endwise force.

1,681,097. CAPPED ELBOW. LEWIS H. CHURCH, Roselle, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J., a Corporation of New Jersey. Filed Jan. 26, 1924. Serial No. 688,651. 9 Claims. (Cl. 247—31.)



5. A capped elbow comprising, a cylindrical head threadeded to receive a cap and having a rim formed with a locking shoulder, a sleeve branching off from the head, a threaded cap for the head, a spring pawl to engage the locking shoulder, and means extending through the cap to secure the pawl to the cap disposed between the cap and rim to prevent removal of the means when the cap is in place whereby the threading of the cap home upon the head serves to lock the former in position and prevent the removal of the securing means.

6. A capped elbow comprising a cylindrical head threaded to receive a cap and formed with a ratchet surface, and including means to attach the elbow to a pipe, a threaded cap for the head, a spring pawl to engage the ratchet surface, and means extending through the cap to secure the pawl to the cap disposed between the cap and head the securing means being so disposed that the threading of the cap home upon the head prevents the removal thereof.

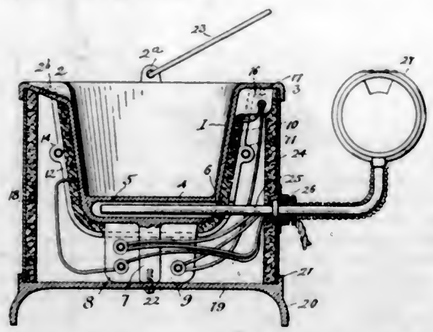
1,681,098. OIL-STORAGE TANK. MILTON ONA CLARK, Clarkston, Mich. Filed July 10, 1926. Serial No. 121,595. 8 Claims. (Cl. 220—85.)

1. An oil tank including a main reservoir adapted to contain oil, a roof tank on the said reservoir adapted to hold water, means establishing communication between said auxiliary roof tank and the said main reservoir, and a



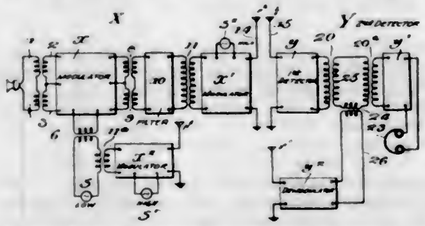
stack rising from the top of the main reservoir and communicating therewith to cause oil to rise in said stack after the oil has risen to the roof of the main reservoir.

1,681,099. PORTABLE MELTING POT. WARREN F. CLARK, Warren, Pa., assignor to Automatic Electric Heater Company, Warren, Pa., a Corporation of Delaware. Filed Apr. 14, 1924. Serial No. 706,350. 10 Claims. (Cl. 219—44.)



6. A melting pot comprising a receptacle having at its upper end an outwardly extending flange in which is formed a pouring spout said flange having at the extremity a downwardly turned portion, the receptacle having an extension at the lower portion thereof, a base member having a flanged portion at its periphery, said base portion being secured to the downwardly extending portion of the melting pot, and a cylindrical casing extending between the inside of the flange on the base and the downwardly turned portion of the flange on the receptacle.

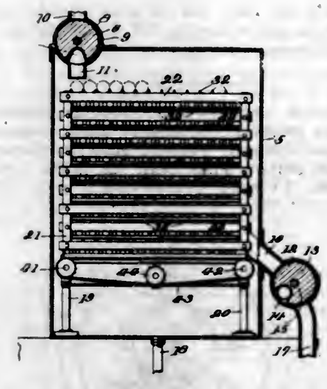
1,681,100. RADIOBROADCAST DISTRIBUTING SYSTEM. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed Nov. 25, 1925. Serial No. 71,456. 2 Claims. (Cl. 250—6.)



2. The method of radio transmission of signals which consists in doubly modulating a carrier wave by first modulating signals on a relatively low frequency carrier and

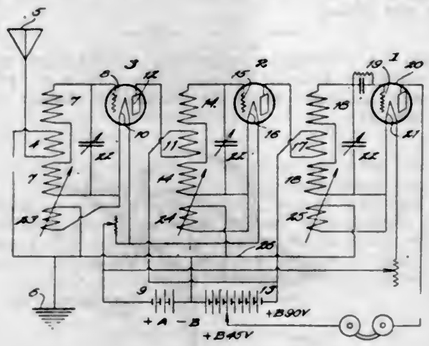
suppressing the unmodulated carrier so as to leave only a side band, and then modulating this side band upon a high frequency carrier, and radiating the same, while simultaneously imposing the unmodulated intermediate frequency carrier upon a separate high frequency carrier and radiating the same.

1,681,101. APPARATUS FOR TREATING FOOD PRODUCTS IN CLOSED CONTAINERS. JOHN COYLE, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 20, 1926. Serial No. 143,010. 18 Claims. (Cl. 126—272.)



1. An apparatus for treating food products in closed containers comprising a casing, mechanism for supporting and rolling the containers forward and backward, but to a greater extent forward, so that the containers are thus conveyed through the casing, said mechanism including groups of bars, and means for independently raising and lowering the bars in each group.

1,681,102. OSCILLATION-CONTROL CIRCUITS. FRANK H. DALET, New York, N. Y. Filed Feb. 21, 1925, Serial No. 10,915. Renewed Apr. 27, 1928. 2 Claims. (Cl. 250—20.)

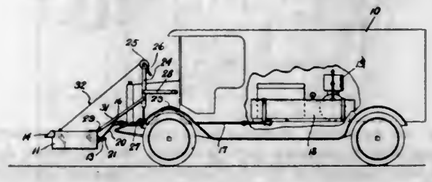


1. In a radio receiving circuit embodying a plurality of stages each including a thermionic triode, inductances coupling the plate and grid circuits of the successive stages, and oscillation preventing means embodying coils arranged in inductive relation to said inductances and connected in series with the filament battery, the rheostats and the respective filaments of the triodes whereby to utilize the resistance thereof.

1,681,103. ESTERIFICATION OF CELLULOSE IN PRESENCE OF A PHENOL. CLAUDE DIAMOND, Coventry, England, assignor to Courtaulds Limited, London, England. Filed Apr. 14, 1927, Serial No. 183,902, and in Great Britain June 21, 1926. 2 Claims. (Cl. 260—101.)

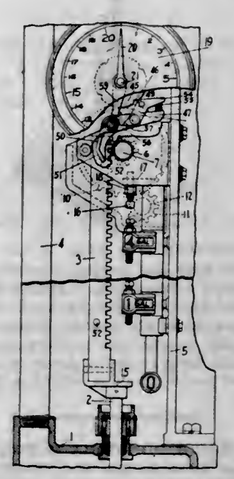
1. A process of preparing for acetylation, cellulose which has been treated with caustic soda, the said process consisting in treating the said cellulose with a phenol, substantially as described.

1,681,104. SNOW REMOVER. EVERETTE G. EARNHARDT, Bath, Pa. Filed Oct. 23, 1925. Serial No. 64,441. 1 Claim. (Cl. 37—12.)



An attachment for automobiles, comprising a pair of spaced parallel upright standards arranged at the opposite sides of the hood of the automobile and projecting thereabove, each standard having its lower portion twisted and formed with a laterally extending portion constituting an attaching foot secured to the frame of the automobile, links pivoted on said standards at points intermediate the ends thereof and projecting downwardly and forwardly therefrom and terminating in advance of the frame of the automobile, a casing pivotally supported by the forward extremities of said links, a drum journaled between the upper ends of the standards, a cable attached to the casing and secured to and wound about said drum, means for rotating the drum, bracing elements extending substantially longitudinally of the hood and connected at their ends with the latter and with said standards at points above the adjacent ends of said links.

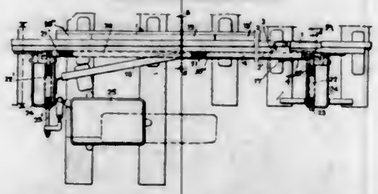
1,681,105. LIQUID-MEASURING PUMP. EARL E. EICKMEYER, Dayton, Ohio, assignor to The National Recording Pump Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 5, 1925. Serial No. 6,977. 13 Claims. (Cl. 235—1.)



1. The combination with a measuring pump, an actuating device therefor, and a registering device comprising a movable member controlled by said actuating device, of means

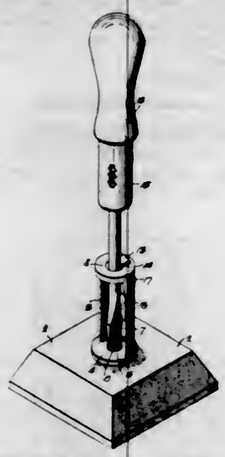
operated by said actuating device at the end of each complete movement thereof to correct any variation between the position of said movable member and the quantity of liquid delivered by said pump.

1,681,106. AUTOMATIC STOPPING SYSTEM FOR RAILROAD CARS. JEAN FARENC, Paris, France. Filed Sept. 25, 1925, Serial No. 58,576, and in France Sept. 26, 1924. 9 Claims. (Cl. 104—257.)



1. An automatic stopping apparatus for railroad cars, comprising a stopping shoe, a double guiding device for the shoe, one part of which is fixed and the other movable while remaining parallel with the track, and an automatic returning means for the shoe, whereby the movable guiding part will be relieved from all lateral stresses, thus obtaining an apparatus of substantial construction, reliable in operation and of an entirely automatic nature.

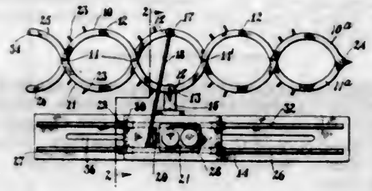
1,681,107. DISPLAY TOOL HOLDER. THOMAS J. FEGLEY and GEORGE O. LEOPOLD, Philadelphia, Pa., assignors to North Bro's M'f'g. Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 18, 1925. Serial No. 76,261. 2 Claims. (Cl. 211—154.)



1. The combination of a base; a tool holding device secured to the base and having a bearing for a screw-driver bit having a broad end; a plug located in the bottom of the tool holding device having a slot therein into which the screw-driver bit extends; means for holding the plug frictionally in the tool holding device; a spring bearing against the bit; and a screw extending into the opening in the bearing for preventing withdrawal of the bit.

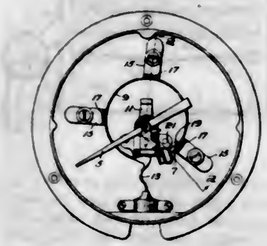
1,681,108. PROPULSION DEVICE FOR SHIPS. WALENTY FILA, Edwardsville, Pa. Filed June 9, 1927. Serial No. 197,614. 3 Claims. (Cl. 115—28.)

1. In a propulsion device of the class described, an internal combustion engine mounted on a platform, wheels secured to the said platform, said wheels adapted to engage tracks secured to a base, a lazy tong pivotally attached, at its center to a bracket secured to the said base, a rod pivotally attached to the opposite center portion



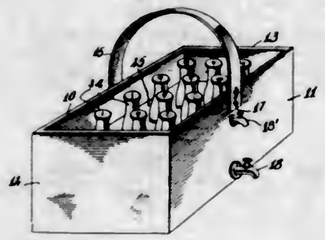
of the said lazy tong, said rod being pivotally attached to an eccentric pin secured to the rim of the fly wheel of the said internal combustion motor.

1,681,109. PRESSURE-OPERATED INSTRUMENT. WALTER HENRY FITTS, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a Corporation of Massachusetts. Filed Mar. 16, 1922. Serial No. 544,264. 7 Claims. (Cl. 73—109.)



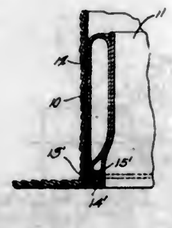
1. In an instrument of the class described in combination with a curved hollow tube distortable under internal pressure and having a fixed portion and a free end, positive stop means opposing the surface of the tube between said fixed portion and the free end and providing at least a three point support therefor, a fixed element extended radially inward adjacent the free end of the tube and a projecting lug on the tube adjacent said free end to seat on said element.

1,681,110. COOLING VENDING CONTAINER FOR DRINKS. WILLIAM FRIEDMAN, New York, N. Y. Filed Aug. 12, 1927. Serial No. 212,449. 2 Claims. (Cl. 224—48.)



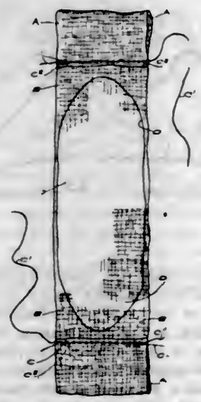
1. In a container of the class described, a plate member disposed between the top and bottom extremities thereof, having apertures therein, socket members adjustably mounted in said apertures adapted to retain bottles in upright position, and catches mounted on said plate member adapted to engage in apertures in said holders for securing the latter in a predetermined position.

1,681,111. CUSHION. ISADORE W. GARFIELD, Bridgeton, N. J. Filed Nov. 18, 1925, Serial No. 69,881. Renewed Apr. 13, 1928. 1 Claim. (Cl. 2—8.)



A head cushioning device, comprising a hollow flexible annulus member, an inflating nipple extending into the crown of a hat from the upper edge of the annulus, a sweat band arranged around the inner surface of the annulus, a U-shaped flexible member disposed between the lower edge of the sweat band and the annulus, a row of stitching connecting one side wall of the flexible member with the lower end of the annulus and the body of a hat, and a second series of stitching connecting the other side wall of the flexible member with the lower edge of the sweat band.

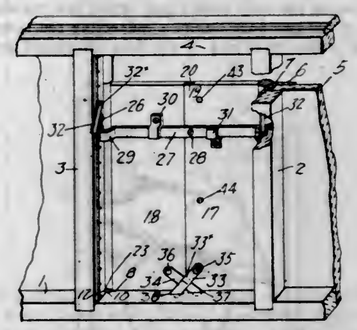
1,681,112. SANITARY TOWEL. NORA GARROW, Glasgow, Scotland, assignor to Robinson and Sons Limited, Chesterfield, England. Filed Dec. 5, 1927, Serial No. 237,908, and in Great Britain July 15, 1927. 2 Claims. (Cl. 128—290.)



1. A sanitary towel comprising an elongated absorbent pad of cotton, a casing of flimsy textile fabric folded longitudinally to envelop said pad, the ends of said casing being folded over transversely to form loops adapted to engage a tape or belt, and the bent over ends of said casing being connected to the main body of said casing by a line of quickly removable stitching having a free projecting end adapted to be pulled by the user.

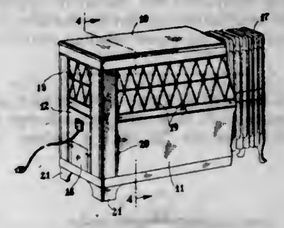
1,681,113. GRAIN-CAR DOOR FOR BOX CARS. ALFRED GILLINGHAM and EDMUND BJORK, Regina Beach, Saskatchewan, Canada. Filed Sept. 7, 1927. Serial No. 218,088. 2 Claims. (Cl. 20—28.)

1. In a grain door for box cars, the combination with a door frame including uprights, top plate and sill, of a boss carried by the sill adjacent each upright and having its upper face inclined inward and having a central orifice, a tubular bearing member depending from the top plate in central alignment with each of the aforesaid orifices, door leaves each provided with a cylindrical member extending upward into the tubular bearing members and cut at an incline at their lower ends corresponding to the



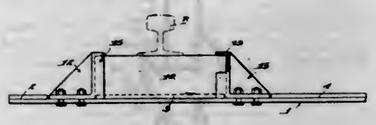
incline of the aforesaid bosses, and projections extending downward therefrom to turnably fit the orifices of the bosses.

1,681,114. RADIATOR COVER AND ELECTRIC HEATER. JULIUS L. GORDON, Brooklyn, N. Y. Filed Feb. 10, 1928. Serial No. 253,299. 5 Claims. (Cl. 219—19.)



1. A combined radiator cover and electrical heater, comprising a radiator cover having a top member, a bottom member and side members, and electrical heaters attached to the side members.

1,681,115. RAILROAD TIE. ELIAS E. HENDRICKSON, Watervliet, N. Y., and GEORGE CHESTER DIXON, Indianapolis, Ind. Filed Mar. 2, 1928. Serial No. 258,610. 6 Claims. (Cl. 238—286.)

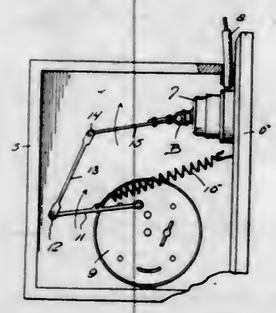


1. A railroad tie comprising a base plate having longitudinally spaced upstanding projections, rail attaching blocks mounted on said plate, each of said blocks having means for cooperation with one of said projections to hold the block against movement relatively to said plate, and block holding castings engaged with said projections and bolted to said plate.

1,681,116. TIME-ACTUATED ELECTRIC SWITCH. CLARENCE L. HERSHEY, Leaman Place, Pa. Filed Dec. 10, 1925. Serial No. 74,529. 1 Claim. (Cl. 200—35.)

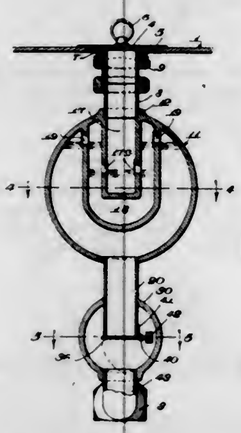
In combination, a casing, an electric snap switch located within the casing, an alarm clock arranged within the casing, a rod, an internally threaded sleeve formed on

the inner end thereof and disposed at right angles thereto, said sleeve being adapted for engagement on the threaded end of the alarm winding shaft of the clock, an arm, a two-part clamp for securing the inner end of said arm to the button of the snap switch end of the arm forming one section of the two part clamp, a connecting rod secured at one end to the outer end of the first mentioned rod, the



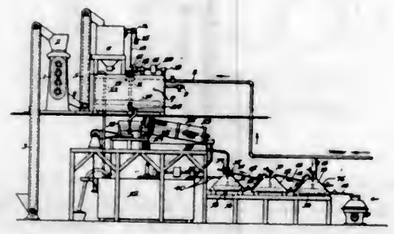
other end being secured to the outer end of said arm so that said arm will be moved to a switch actuated position when the first mentioned rod is operated by reason of the alarm winding shaft being released, and a retractile coil spring being secured at one end to the intermediate portion of the first mentioned rod, and at its opposite end to the casing, for immediately so moving the arm to a switch closing position when the alarm winding shaft is released.

1,681,117. CLEANABLE TRAP FOR SINKS AND THE LIKE. HARLEY A. W. HOWCOTT, Baton Rouge, La. Filed Feb. 2, 1928. Serial No. 251,364. 4 Claims. (Cl. 182—23.)



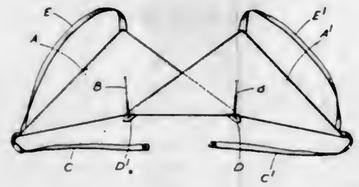
1. A fixture of the class described comprising a truncated cylindrical fluid-tight receptacle having diametrically opposite openings in the periphery thereof to provide an inlet and an outlet therefor, a chamber formed in said receptacle and communicating with said inlet, another chamber surrounding said inlet chamber and spaced from the walls of the receptacle, screened openings in the inlet chamber above the bottom thereof, similar openings in the other chamber at points above the openings in the first mentioned chamber, whereby a water seal is provided in said chambers in the path of the material passing from the inlet to the outlet.

1,681,118. PROCESS OF EXTRACTING, SEPARATING, AND UTILIZING THE STARCH AND PROTEIN CONTENTS OF RICE. OTTO JASCHKE, Crowley, La. Filed Apr. 4, 1925. Serial No. 20,842. 6 Claims. (Cl. 127—67.)



1. In a process of manufacturing starch from rice wherein the different contents of the grain are subjected to chemical action, and as the initial step in said process, dry grinding or crushing the rice grains to an extent sufficient to break down the starch cells and the starch granules thereof, so that the starch particles and the glutinous matters of the grain may be quickly enveloped, permeated, and saturated by a liquid.

1,681,119. BUST BODICE. ROSAMOND LILIAN KENNEDY, Hyde Park, London, England. Filed June 24, 1927, Serial No. 201,271, and in Great Britain Nov. 25, 1926. 2 Claims. (Cl. 2—42.)



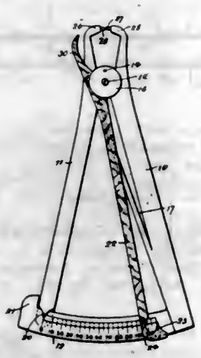
1. A bust-bodice comprising breast supports constituted by two substantially triangular pieces of material intersecting in front so as to have a common base line for part of their length, a lateral extension strip attached to the outer extremity of each support and passing around the wearer's back and connected to the inner extremity of the same support, and a shoulder strap extending from the upper corner of each support to a point adjacent the outer corner thereof.

1,681,120. ANTIRICKETIC SUBSTANCES AND THE PRODUCTION THEREOF. AUGUST J. PACINI, Chicago, Ill., assignor to Charles M. Richter, Chicago, Ill. Filed Aug. 24, 1927. Serial No. 215,264. 22 Claims. (Cl. 167—7.)

1. The method of preparing materials containing growth-producing substances so that at least some of said growth-producing substances become replaced by anti-ricketic products, said method comprising concentrating on said materials rays longer than about 3022 Ångström units.

1,681,121. WATCHMAKER'S GAUGE. ROBERT LARSEN, New York, N. Y. Filed Oct. 6, 1927. Serial No. 224,475. 3 Claims. (Cl. 33—148.)

1. A device of the class described, including two arms pivoted to each other and having oppositely disposed gauge members at one end, a transverse graduated member on one of the arms at the opposite end, and an indicating member on the other arm at said opposite end to traverse the graduations of said indicating member, one of the said



gauge members having a recess to receive a bearing of a balance staff, the other member being adapted to engage the opposite end of the staff.

1,681,122. LAUNDRY SAFETY PIN. BENJAMIN LEBWOHL, New York, N. Y. Filed June 22, 1927. Serial No. 200,549. 3 Claims. (Cl. 24—161.)



1. A safety pin of the class described, comprising a pair of members having curved, extended, and inwardly protruding portions, clamping means arranged at one of the ends of the members for clamping these members together, and means for normally urging these members apart upon releasing of the clamping means, said urging means being arranged on the ends of the members opposite the clamping means, and the said curved extended and inwardly protruding portions interfit with each other for holding clothes engaged by the pin against longitudinal slippage when the clamping means are engaged.

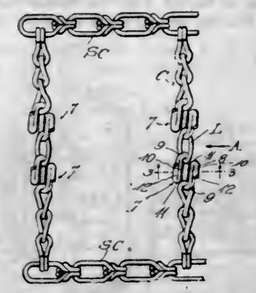
1,681,123. MOLYBDENUM ALLOYING COMPOUND. EMIL A. LUCAS, Washington, Pa., assignor to Molybdenum Corporation of America, Pittsburgh, Pa., a Corporation of Delaware. Filed Dec. 30, 1924. Serial No. 758,916. 5 Claims. (Cl. 75—45.)

1. A composition for alloying molybdenum with another metal, comprising a mass fused from a mixture of molybdenum oxide and a flux-forming oxide, the mass containing molybdenum oxides lower in oxygen content than molybdenum trioxide.

1,681,124. PROCESS OF MANUFACTURING MOLYBDENUM ALLOYING COMPOUNDS. EMIL A. LUCAS, Washington, Pa., assignor to Molybdenum Corporation of America, Pittsburgh, Pa., a Corporation of Delaware. Filed Dec. 30, 1924. Serial No. 758,917. 2 Claims. (Cl. 75—45.)

1. The process of producing a composition for alloying molybdenum with another metal which comprises roasting molybdenite to remove its sulphur content, and then fusing the roasted body and a fluxing agent, including lime, in the presence of a reducing agent to form a coherent fused mass containing a calcium molybdenum silicate.

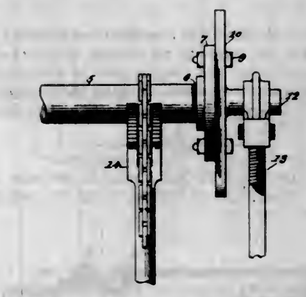
1,681,125. ANTISKIDDING LINK. FREDERICK MARKWICK, Falls, Pa. Filed Oct. 7, 1927. Serial No. 224,628. 6 Claims. (Cl. 152—14.)



1. An anti-skidding link comprising an elongated body having return bends at its ends providing two hooks whose bills extend inwardly toward opposite ends of the link, each of said bills being provided with an integral elongated calk along its lower side extending substantially throughout its length.

2. An anti-skidding link comprising an elongated body having return bends at its ends providing two hooks whose bills extend inwardly toward opposite ends of the link, each of said bills being provided with an integral elongated calk extending longitudinally thereof, said link being of V shape transversely with one of said hooks and its calk occupying one side of the V, the other hook and calk occupying the other side of the V and said body disposed at the apex of the V.

1,681,126. PIPE-FLANGE TOOL. GEORGE E. MCDONNELL, Cedar Rapids, Iowa, assignor of one-half to Thomas F. McDonnell, Cedar Rapids, Iowa. Filed June 26, 1926. Serial No. 118,801. 2 Claims. (Cl. 81—90.)



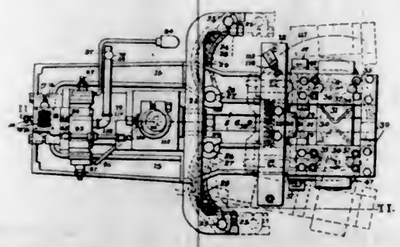
1. A pipe-flange driver, comprising a bar pierced for fastening bolts, and adapted for bolting to flanges of varying diameters, and a hub to be gripped by a pipe-wrench projecting midway from said bar.

1,681,127. APPARATUS FOR PRODUCING MOLD CHARGES OF MOLTEN GLASS. WILLIAM J. MILLER, Swissvale, Pa., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Dec. 16, 1925. Serial No. 75,757. 22 Claims. (Cl. 49—5.)

2. In apparatus for producing mold charges of molten glass, the combination of shears for cutting the glass, a partible receptacle beneath the shears and comprised of parts mounted to move toward and away from each other, and intermittently effective means whereby the opening of the shears causes the receptacle parts to move toward each other to complete the receptacle, said receptacle parts being released and being arranged to separate by gravity as the shears cut.

22. In apparatus for producing mold charges of molten glass, the combination of shears for cutting the glass, a part-

ible receptacle beneath the shears and comprising parts mounted to move from their closed position by gravity, said receptacle parts being provided with contact members, and means moving in unison with the shears and arranged to temporarily engage said contact members as the shears



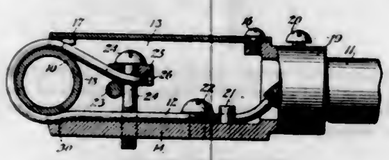
open and move said receptacle parts into and maintain them in their closed position, said means being disengaged from said contact members as the shears move toward their closed position whereby the receptacle parts are released and open.

1,681,128. SMOOTHING-IRON PROTECTOR. MARK A. MORSE, Jr., New Orleans, La. Filed Nov. 9, 1926. Serial No. 147,279. 5 Claims. (Cl. 68—27.)



5. A device of the character described comprising a frame, means to attach the frame to an ironing board, cross bars attached to the frame, and resting bars of concave formation attached to the cross bars, abutting the ironing board at one end and falling short of an adjacent end of the frame at the other end.

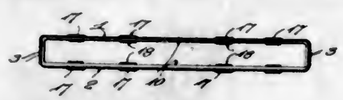
1,681,129. GROUND FITTING. ALAN M. NUGENT, Unionville, N. Y. Filed Apr. 20, 1927. Serial No. 185,291. 5 Claims. (Cl. 247—1.)



1. A ground fitting including a box-like housing open at one end and shaped at said open end to snugly fit a ground pipe or the like, and adapted at its other end for connection with the end of an electrical conduit, means in the casing for snubbing a wire extending out of the conduit, and means in the casing for engaging the end of said wire after it has been passed around the pipe, and tightening the wire on the pipe to thereby tightly couple the pipe and fitting.

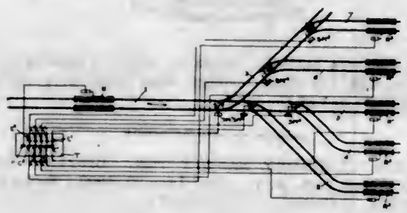
1,681,130. SAFETY DEVICE. ANATOLE PANALLE and SAM L. NEEDLE, Washington, D. C. Filed June 29, 1927. Serial No. 202,340. 2 Claims. (Cl. 9—17.)

1. A safety device comprising a body portion formed of two pieces of water and air tight material secured to each other, metallic ribs adapted to rest in the body portion, strips arranged interiorly of the body portion and extending longitudinally with respect thereto and other strips secured



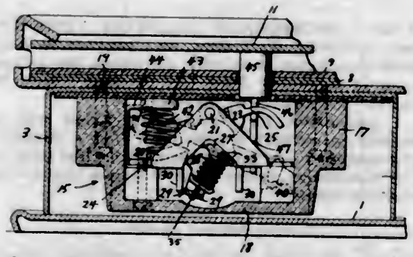
on the first strips in such a manner that the ribs are secured between the strips at the point of contact of the ribs with respect to thes rips.

1,681,131. RAILWAY-CAR-CLASSIFICATION SYSTEM. CHARLES W. PRESCOTT, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Jan. 14, 1926. Serial No. 81,245. 7 Claims. (Cl. 104—26.)



1. The method of classifying railway cars which consists in; firstly running the cars down an inclined track leading to a large number of classified tracks through switches, said inclined track having the desired slope and altitude to bring the cars to a rather high speed; secondly in running the cars up a decelerating incline after they have entered the proper classification track so as to retard them and absorb a large percentage only of the kinetic energy stored therein; and thirdly in retarding the cars to the ultimate desired speed on substantially level track by suitable mechanical car retarding means after they have passed beyond the decelerating incline.

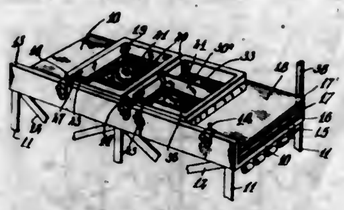
1,681,132. SUPPORTING STAND AND CONTROL SWITCH FOR ELECTRIC IRONS. MERTON A. REYNOLDS, Auburn, Me. Filed Dec. 22, 1925. Serial No. 77,051. Renewed June 27, 1928. 4 Claims. (Cl. 219—25.)



1. An electric iron supporting stand including a base member, a casing mounted thereon, a tray-like support mounted on the casing, a movable plate mounted within said tray-like support, a control switch mounted within said casing and embodying stationary contacts interposed in one of the leads to the electric iron and further including a movable contact arm normally bridging said contacts for making the circuit to the iron continuous, an operating means for the switch including a push button slidably mounted through the top of the casing and the bottom of

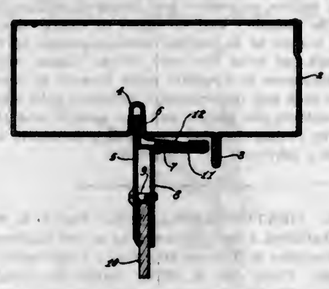
the tray-like supporting member and arranged in engagement beneath said plate whereby the weight of an iron upon the plate will operate to throw the switch into circuit breaking position.

1,681,133. STENCILING METHOD. VICTOR ROSATO, New York, N. Y. Filed Sept. 15, 1927. Serial No. 219,612. 4 Claims. (Cl. 101—126.)



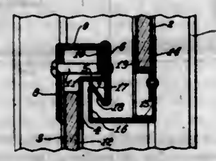
1. In a device of the class described, the combination with a table for supporting material to be stenciled and provided with a vertical member with clamps and projecting pins of frames for supporting stencils of bolting cloth and arranged for engaging upon the table, brackets secured to the frames and having a central aperture communicative with an end slot, L-members slidably mounted in the apertures and having one arm projecting from the said end slots and arranged for engagement against the said pins for registering the frames relative to the table, bushings engaged in the said apertures, and screws threadedly engaging in the bushings and rotatively connected with the L-members.

1,681,134. METAL WINDOW. JOHN F. RUTH, St. Louis, Mo. Filed Sept. 28, 1927. Serial No. 222,454. 10 Claims. (Cl. 189—65.)



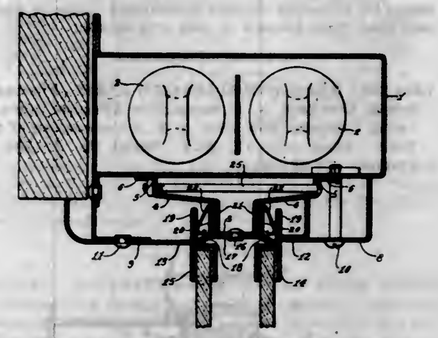
1. In a metal window having an upper sash and a frame head provided with a groove, a top rail for the sash formed with an upstanding flange adapted to enter the groove in the head and an outwardly extending air deflecting flange, and a resilient strip lying along said latter flange for coaction therewith and adapted to engage the head when the sash is raised.

1,681,135. METAL WINDOW. JOHN F. RUTH, St. Louis, Mo. Filed Oct. 14, 1927. Serial No. 226,197. 10 Claims. (Cl. 189—72.)



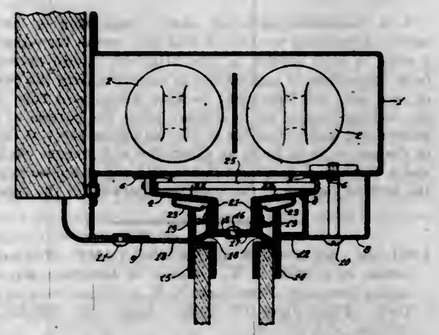
1. In a metal window having an upper and a lower sash, an upper rail on the lower sash having an upwardly extending flange spaced outwardly from the outer face of the sash, a facing for said rail having a flange and clamped against said upwardly extending flange, and a flexible weather strip clamped against said upwardly extending flange.

1,681,136. METAL WINDOW. JOHN F. RUTH, St. Louis, Mo. Filed Oct. 22, 1927. Serial No. 227,967. 10 Claims. (Cl. 189—72.)



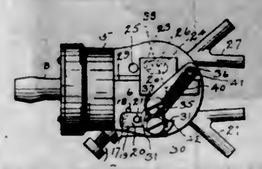
1. In a metal window having a sash, a jamb and a parting stile therealong, a loose strip of resilient material interlocked with the stile and pressing yieldingly against the sash.

1,681,137. METAL WINDOW. JOHN F. RUTH, St. Louis, Mo. Filed Oct. 22, 1927. Serial No. 227,968. 10 Claims. (Cl. 189—72.)



1. In a metal window having a sash, a jamb and a parting stile therealong, a loose strip of resilient material interlocked with the stile and pressing yieldingly against the edge of the sash.

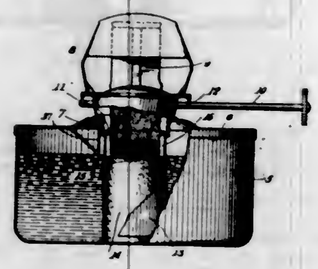
1,681,138. PULSATOR. JOHN A. SCHMITT, Columbus, Ohio, assignor to The Universal Milking Machine Company, Waukesha, Wis., a Corporation of Wisconsin. Filed Feb. 25, 1922. Serial No. 539,167. 9 Claims. (Cl. 31—62.)



1. In a snap over mechanism of the character described, the combination with a body having ports to be alternately opened and closed, of a movable valve member controlling

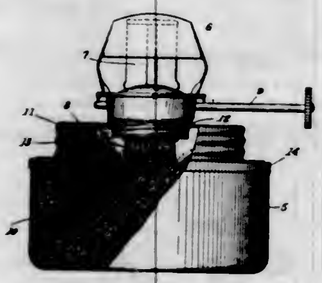
said ports, an oscillatory actuator head mounted independent of said valve, having intersecting arcuate faces, and an operative connection with the port control valve, an oscillatory stop member having wiping engagement with the arcuate faces of said actuator head, said arcuate faces being alternately brought into concentric relation with the pivotal connection of the oscillatory stop member, said stop member locking the actuator head against reversal until the stop member has moved through a prescribed limit of travel and means for actuating the stop member and means to reverse said head when released by said stop member.

1,681,139. KEROSENE SIGNALING LAMP. FURMAN D. SPEAR, New York, N. Y., assignor to Armspear Manufacturing Company, New York, N. Y., a Corporation of New York. Filed June 17, 1924. Serial No. 720,506. 4 Claims. (Cl. 67—81.)



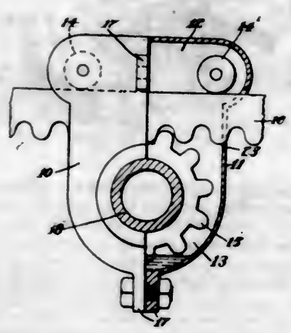
1. A kerosene signaling lamp comprising a pot, a burner detachably secured in said pot, means for adjusting a wick in said burner, a tube attached to and extending from the bottom of said burner to approximately the bottom of said pot, and absorbent packing filling said tube from the bottom thereof up to a point below the bottom of said burner and approximately at the maximum level of the oil in the pot so as to leave an expansion and storage chamber and a depth gage arranged inside said pot at approximately the level of the top of the absorbent packing in the tube.

1,681,140. KEROSENE SIGNALING LAMP. FURMAN D. SPEAR, New York, N. Y., assignor to Armspear Manufacturing Company, New York, N. Y., a Corporation of New York. Filed June 17, 1924. Serial No. 720,507. 2 Claims. (Cl. 67—81.)



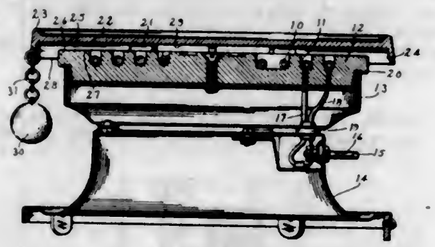
1. An oil signaling lamp having an open top body designed to hold absorbent material, a narrow ring fitting over the outside edge of said top and providing a relatively large opening for the insertion and removal of said absorbent material, a cover to hold in said absorbent material and a burner supported centrally in said cover with a wick depending therefrom into contact with said absorbent material.

1,681,141. SASH-OPERATING MECHANISM. EDWIN W. TERHUNE, Irvington on Hudson, N. Y., assignor to Lord & Burnham Company, Irvington on Hudson, N. Y. Filed Feb. 20, 1925. Serial No. 10,570. 5 Claims. (Cl. 74—56.)



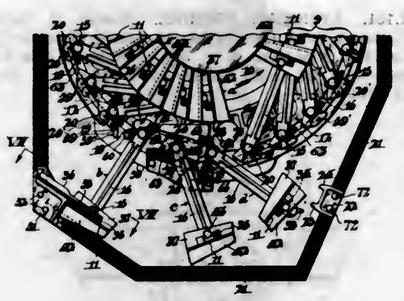
1. In sash operating devices in which a rack bar and pinion are employed, means for maintaining the rack bar in operative engagement with the pinion upon rotation of the pinion, said means comprising a cradle including a two part casing split along a plane permitting assembly of the two parts about the pinion while the pinion is on the line shaft, said parts forming a substantially enclosed chamber, a pair of rollers supported and enclosed within the upper part of the chamber and arranged to engage one edge of the rack bar so as to prevent disengagement of the teeth of the rack bar from the teeth of the pinion, said casing having apertures in opposite ends thereof to receive and guide the rack bar therethrough, whereby said casing completely encloses the pinion and the rollers, and the lower part of the casing chamber serves as a reservoir or pocket to receive a lubricant for the pinion.

1,681,142. HEATING APPLIANCE. FRANK E. WOLCOTT, West Hartford, Conn., assignor, by mesne assignments, to The Beardsley & Wolcott Mfg. Co., a Corporation of Connecticut. Filed July 6, 1926. Serial No. 120,713. 28 Claims. (Cl. 53—7.)



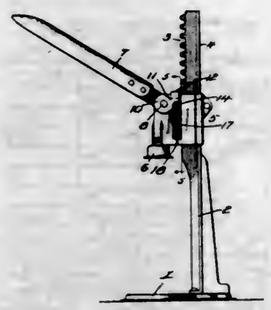
1. A culinary utensil having a bottom, said bottom having radially disposed ribs depending therefrom and having their inner ends spaced from the center of said bottom and said ends forming an inner utensil centering means beneath the bottom.

1,681,143. FORM CARRIER FOR DRYING MACHINES. WILLIAM P. GREINER and HOWARD MORSHEAD, Philadelphia, Pa., assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 5, 1924, Serial No. 717,944. Renewed Jan. 11, 1928. 17 Claims. (Cl. 198—19.)



1. In a drying machine comprising an enclosure and a rotatable conveyor, the combination of outriggers fulcrumed around said conveyor, form carriers at the free ends of said outriggers having cams defining helico-axial movement, and means whereby said form carriers are normally restrained against such movement.

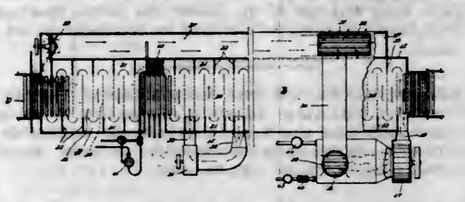
1,681,144. BOTTLE-CAPPING TOOL. HARRY J. LEBHERZ, Frederick, Md., assignor to The Everedy Company, Frederick, Md., a Corporation of Maryland. Filed Nov. 18, 1925. Serial No. 69,868. 4 Claims. (Cl. 226—84.)



3. In a bottle capping tool, the combination of a vertically extending rack member, a capping head adjustably arranged on said rack member, a capper throat carried by said capping head, a hand lever pivotally mounted in said capping head, a flat plate member concentrically mounted on the pivot of said hand lever and having a pair of lug extensions thereon, one of said lug extensions forming a spacing member between one side of said hand lever and said rack member, and the other of said lugs being resiliently connected with a point on said capping head, said first mentioned lug forming an abutment with said hand lever and tending to return said hand lever to normally raised position after each successive operation of said capping tool.

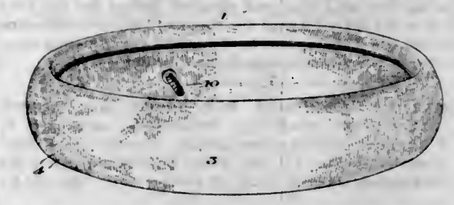
1,681,145. METHOD OF AND APPARATUS FOR HANDLING AND DRYING PULP TUBES OR THE LIKE. HOWARD PARKER, Berlin, N. H., assignor to Brown Company, Portland, Me., a Corporation of Maine. Filed Mar. 3, 1923. Serial No. 622,610. 61 Claims. (Cl. 34—12.)

1. A drier having a chamber, means for moving articles



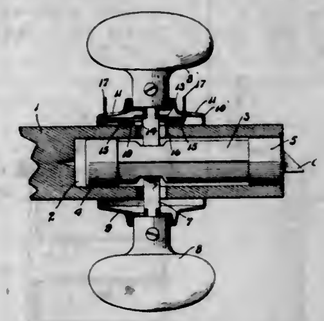
to be dried therethrough and continuously rotating said articles, and means for directing a current of air successively back and forth across said chamber to dry the articles moving therethrough.

1,681,146. APPARATUS FOR CURING TIRES UNDER INTERNAL PRESSURE. FRED BROWN PFEIFFER, Akron, Ohio. Filed Feb. 23, 1923, Serial No. 620,701. Renewed June 16, 1928. 2 Claims. (Cl. 154—9.)



1. An air bag for use in bringing tires from a flat band condition to tire shape without exerting stretching action upon the beads of the tire, comprising an expansible core and a plurality of non-extensible reinforcing members about said core and arranged at right angles to the plane of the tire, the bag being free to expand circumferentially along its outer periphery, the reinforcing members being disconnected from one another so as to permit them to spread during the expansion of the bag, the bag being thickened along its inner periphery.

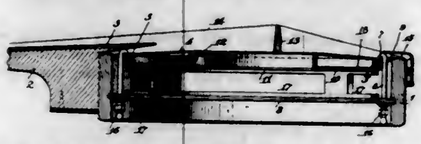
1,681,147. LOCKING ROSETTE. LUCIEN A. DEXTER, Grand Rapids, Mich., assignor to National Brass Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Mar. 22, 1927. Serial No. 177,251. 2 Claims. (Cl. 292—359.)



1. The combination with a door and door latch having a latch bolt and a rotatable shaft to actuate the latch bolt of a rosette adjacent one surface of the door through which

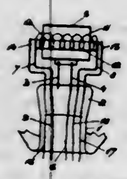
the rotatable shaft passes, means for attaching the rosette to the door, a locking bar located within said rosette associated with said rotatable shaft and having an operating member extending outside of the rosette and means for slidably mounting said locking bar comprising a member having a guide through which said locking bar slides, said guide being attached to the rosette and having openings thru which the means for fastening the rosette to the door extend.

1,681,148. BANJO OR THE LIKE MUSICAL INSTRUMENT. WILLIAM H. DE WICK, Brooklyn, N. Y. Original application filed Sept. 19, 1922, Serial No. 589,058. Divided and this application filed Mar. 28, 1925. Serial No. 18,952. 4 Claims. (Cl. 84—270.)



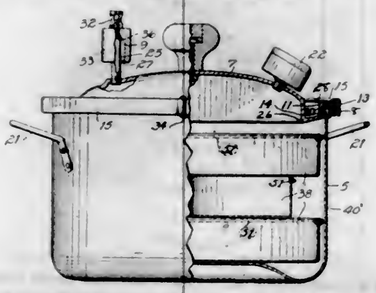
1. In a musical instrument the combination with an outer hoop, a sound board extending transversely therein, and a ring resting on one side of said board and spaced from the inner wall of the hoop, of a membrane head extending over said ring, and securing devices for the head lying in the space between the ring and hoop and extending through the sounding board, and means for adjusting them located at the opposite side of the sounding board.

1,681,149. ELECTRODE FOR DISCHARGE TUBES. GILLES HOLST, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Filed May 11, 1926, Serial No. 108,346, and in the Netherlands June 8, 1925. 5 Claims. (Cl. 250—27.5.)



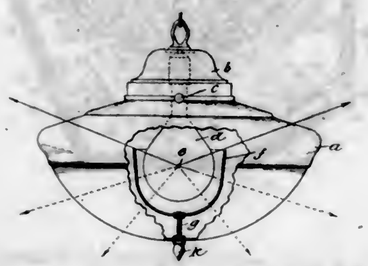
1. In a discharge tube, electrode supports, a lead-in wire connected to each support, an electrode of such a form that it is longer than the distance between its supports, and a rod for supporting said electrode to prevent its sagging when heated, said rod being an electrical conductor and having electrical connection with the electrode lead in wires.

1,681,150. CONTAINER. ALFRED VISCHER, Jr., Floral Park, N. Y., assignor to Self Seal Pressure Cooker Co., Inc., New York, N. Y., a Corporation of New York. Filed Sept. 22, 1922, Serial No. 589,814, and in Great Britain Mar. 20, 1922. 11 Claims. (Cl. 53—1.)



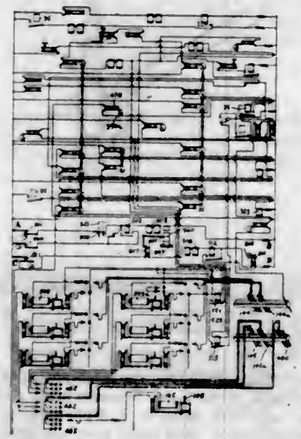
1. A container combining a body and closure, automatically effective means for sealing the closure with respect to the body at super-normal temperatures, and automatically effective means for sealing the closure with respect to the body at internal pressures substantially above atmospheric, said means comprising a coefficient of expansion of the closure higher than that of the body and an upturned rim on said closure whereby longitudinal movement of said closure, due to internal pressure, expands said rim.

1,681,151. LIGHTING FIXTURE. EDWARD J. DAILEY, Jr., New York, N. Y., assignor to Graybar Electric Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 21, 1925. Serial No. 57,510. 1 Claim. (Cl. 240—78.)



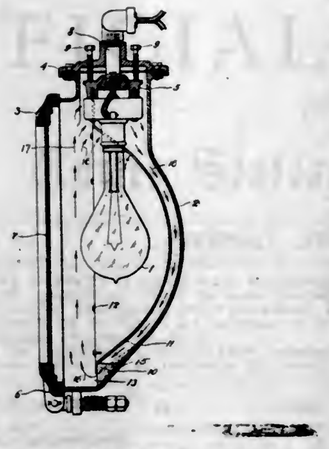
In a lighting fixture, a globe, a movable threaded stem extending through the bottom of the globe, a light deflector rigidly mounted on the stem and within the globe, and means on the lower part of the stem and outside of the globe for adjusting the position of said deflector.

1,681,152. TOTAL-TAKING DEVICE. CHARLES CAMPBELL, London, England, assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed Jan. 22, 1926, Serial No. 82,933, and in Great Britain Feb. 4, 1925. 9 Claims. (Cl. 235—58.)



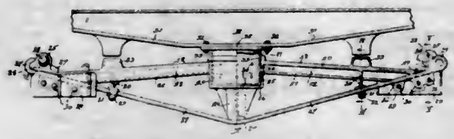
2. In a machine of the class described, in combination, devices for sensing major and minor group designations, means for accumulating major and minor group totals, means controlled by the major group sensing device for printing both major and minor totals whenever major group designations change, and means automatically brought into operation upon a change in major group designations for delaying the printing of the major total until the minor total has been printed.

1,681,153. FLOOD LIGHT. HOWARD L. JOHNSTON, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 13, 1923. Serial No. 680,395. 2 Claims. (Cl. 240—41.)



1. A lighting unit comprising a closed casing, a lamp mounted in said casing, a reflector, means for mounting said reflector in said casing for providing a lamp chamber and a cooling chamber, means in said reflector for providing a passage between said chambers and an outwardly curved portion in said casing provided with inner upstruck portions for providing a channeled passage between said chambers.

1,681,154. TRUCK BOLSTER. BRODERICK HASKELL, Franklin, Pa., assignor to Pittsburgh Steel Foundry Corporation, Glassport, Pa., a Corporation of Pennsylvania. Filed Nov. 10, 1926. Serial No. 147,499. 12 Claims. (Cl. 105—229.)



1. A fabricated trussed truck bolster comprising a compression member having ends and provided at its center section with an integral depending center strut having formed therein a hollow seat or female member of a bearing having a closed bottom at one end and an open top, a tension member having its center portion engaged by the bottom of the center strut and its outer ends secured to the ends of the compression member.

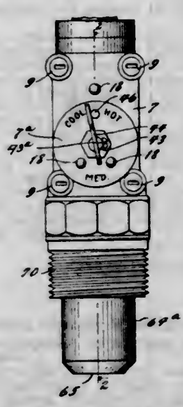
1,681,155. PLASTIC MATERIAL FROM PEAT AND PROCESS OF PRODUCING. ISADORE SIDNEY MELLANOFF, Philadelphia, Pa., assignor to Kemikal Inc., Philadelphia, Pa., a Corporation of Delaware. Filed Feb. 23, 1928. Serial No. 256,492. 9 Claims. (Cl. 106—22.)

1. As a new composition of matter, a product formed by the interaction of an alkaline solution of peat, a phenol and an aldehyde.

1,681,156. PROCESS OF MANUFACTURING OXYGEN CONTAINING COMPOUNDS OF THE ALIPHATIC SERIES. ISADORE SIDNEY MELLANOFF, Philadelphia, Pa., assignor to Kemikal Inc., a Corporation of Delaware. Filed Mar. 13, 1928. Serial No. 261,415. 16 Claims. (Cl. 260—119.)

1. The process of manufacturing oxygen containing compounds of the aliphatic series consisting in heating carbohydrates with alkali in intimate contact with air then adding a heavy hydrocarbon and increasing the temperature to about 210° C., and subsequently shutting off the supply of air and decreasing the temperature to about 150° C.

1,681,157. VALVE. LEWIS W. EGOLESTON, Buffalo, N. Y., assignor to American Radiator Company, New York, N. Y., a Corporation of New Jersey. Filed June 9, 1924. Serial No. 718,767. 29 Claims. (Cl. 236—48.)



1. In a valve of the character described, a casing having a port, a valve cooperating with said port, a lever for operating said valve, a second lever, a tension spring connecting said levers, said second lever being movable to position said spring to exert its force to move said first lever in opposite directions, means whereby said spring normally exerts its force to swing said second lever to so locate the spring as to cause the first lever to move the valve to open position, and means responsive to a characteristic of a liquid or gas for controlling movement of said second lever.

THE

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Issue of August 21, 1928.

Trade-Marks	291	No. 245,599 to No.	245,889, inclusive.
T. M. Renewals	83		
Labels	17	No. 34,450 to No.	34,466, inclusive.
Prints	13	No. 11,171 to No.	11,183, inclusive.
Reissues	1	No. 17,068	
Designs	64	No. 76,111 to No.	76,174, inclusive.
Patents	762	No. 1,681,158 to No.	1,681,919, inclusive.
Total	1,231		

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,553,627, F. Nagler, Rotor, decided July 10, 1928, claims 10 and 11.

Pat. 1,574,284, A. B. Cumner, Means for draining motor-vehicle crank cases and the like, decided August 3, 1928, claims 1, 2, and 4.

Pat. 1,650,932, C. A. Butcher, Relay system, decided July 9, 1928, claims 1 and 7.

Pat. 1,655,166, E. W. Seaholm, Vehicle brake, decided July 18, 1928, claims 1 and 2.

Final decision in interference has been rendered against the following trade-mark:

T. M. 143,987, Certain named medicinal and pharmaceutical preparations, Kaufmann Department Stores, Inc., Pittsburgh, Pa. Registered June 21, 1921. Decided July 10, 1928.

Notices of Cancellation.

U. S. Patent Office, *Washington, Aug. 2, 1928.*

William P. Saunders, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of The American Products Company, of 3265 Colerain Avenue, Cincinnati, Ohio, to effect the cancellation of the trade-mark registration of William P. Saunders, of care of Sano Mfg. Co., 310 North 18th Street, Birmingham, Ala., No. 126,897, dated October 7, 1919, and the notice of such proceeding sent by registered mail to the said William P. Saunders at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said William P. Saunders, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. Patent Office, *Washington, Aug. 2, 1928.*

Tiger Products Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Union Supply Company, of 10 South Broad Street, Elizabeth, N. J., to effect the cancellation of the trade-mark registration of Tiger Products Company, of 1503 Merchants Bank Building and 55 East Third Street, St. Paul, Minn., No. 139,410, dated February 1, 1921, and the notice of such proceeding sent by registered mail to the said Tiger Products Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless Tiger Products Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. Patent Office, *Washington, Aug. 2, 1928.*

Diamond Creamery Co., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of National Creamery Company, of Boston, Mass., to effect the cancellation of the trade-mark registration of Diamond Creamery Co., of Massena, N. Y., No. 84,216, dated November 21, 1911, and the notice of such proceeding sent by registered mail to the said Diamond Creamery Co. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Diamond Creamery Co., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business August 10, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 111,108; Trade-Mark Division, 1,851. Oldest new case, Oct. 10, 1927; oldest amended, Oct. 10, 1927. The dates given are 1927 except where † indicates 1928.)

Room No.	Divisions, Examiners, and Subjects of Inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	Dec. 27	†Jan. 11	1,511
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	†Jan. 11	†Jan. 17	1,634
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Dec. 1	†Jan. 4	1,590
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Oct. 17	Oct. 19	1,695
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Nov. 2	Nov. 2	1,582
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	Dec. 6	Dec. 3	2,549
106	7. JARBOE, C. G., Optics; Photography	Nov. 12	Nov. 12	1,961
133	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Nov. 14	Dec. 10	2,460
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	†Mar. 2	†Mar. 1	1,649
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Nov. 21	Dec. 19	1,855
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	†Jan. 31	†Jan. 25	1,084
380	12. PIERCE, P. P., Machine Elements	Nov. 11	Nov. 23	2,095
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Dec. 23	Dec. 9	1,369
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Nov. 11	Nov. 15	1,226
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Dec. 5	Dec. 19	2,420
242*	16. SPENCER, C. J., Telegraphy; Telephony	Nov. 19	Dec. 5	1,131
307	17. RAFTER, O. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Nov. 30	Dec. 21	1,445
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Dec. 2	Dec. 13	1,602
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Dec. 16	Dec. 19	1,844
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	†Feb. 29	†Mar. 3	1,590
212	21. THURBER, W. L., Textiles; Cloth Finishing	Nov. 17	Dec. 15	1,130
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Nov. 18	Dec. 14	1,606
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Oct. 18	Oct. 27	1,116
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Nov. 2	Nov. 12	1,510
202*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	†Jan. 12	†Jan. 17	1,672
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	Nov. 10	Nov. 15	1,237
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	†Jan. 21	†Jan. 31	1,373
225	28. BENSON, A. R., Internal-Combustion Engines	Nov. 14	Nov. 17	2,051
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	Dec. 14	Dec. 2	1,190
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Dec. 1	†Jan. 20	1,467
312	31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils.	Dec. 17	Dec. 5	2,200
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Nov. 12	Nov. 21	2,268
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	†Mar. 5	†Mar. 8	1,961
304	34. SIMPSON, O. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Oct. 27	Nov. 2	1,512
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	†Feb. 13	†Feb. 29	1,681
105	36. MORTON, O. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	†Jan. 30	†Jan. 27	1,939
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Nov. 3	†Jan. 3	2,175
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	†Jan. 3	†Jan. 18	1,762
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Oct. 14	Oct. 19	1,879
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Nov. 11	Dec. 5	2,635
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Dec. 27	†Jan. 4	1,502
223*	42. CUTTING, H. O., Electric Signaling	Dec. 2	Dec. 17	1,649
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Dec. 10	†Jan. 25	2,143
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Nov. 23	Dec. 9	2,158
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	Nov. 4	Nov. 4	2,471
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Oct. 24	Oct. 25	1,869
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	Dec. 10	Dec. 17	2,010
212*	48. ROEPKE, O. B., Electricity, General Applications	Dec. 16	Dec. 14	1,554
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Nov. 16	†Jan. 7	1,436
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Dec. 29	†Jan. 3	2,568
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Dec. 2	Dec. 2	2,262
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	†Jan. 6	†Jan. 5	2,150
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Dec. 9	Dec. 5	1,773
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Nov. 22	Nov. 22	2,379
102	55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery / Designs	Nov. 14 / †June 21	Nov. 14 / †July 5	956 / 739
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Oct. 11	Oct. 28	2,565
257*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Dec. 15	Dec. 31	1,158
270*	58. DOWELL, E. F., Abrading; Typewriting	Oct. 18	Nov. 4	1,484
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins and Leather; Fuel.	Oct. 10	Oct. 10	2,226
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	Nov. 19	Dec. 2	1,606
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	Oct. 13	Dec. 5	2,009
248*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers.	Nov. 4	Nov. 2	1,845
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND—{Trade-Marks / Labels and Prints	†July 5 / †July 25	†July 30 / †Aug. 1	1,756 / 95

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

BLACK BROTHERS FLOUR MILLS *v.* DENNIE.

No. 2,060. Decided June 4, 1928.

TRADE-MARK—SIMILARITY.

Where two marks used upon egg mash include the words "Just-Right" and "Just Rite," respectively, such words being disclaimed apart from the mark shown, and the marks are not otherwise confusingly similar, *Held* that a petition for the cancellation of the latter mark was properly denied.

APPEAL from Patent Office. Affirmed.

Mr. James Atkins for Black Brothers Flour Mills.

Mr. Frank B. Dennie pro se.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.:*

Appeal from a decision of the Patent Office dismissing appellant's petition for the cancellation of appellee's registered trade-mark, consisting of the representation of a disk having the outer edge of one color, with a central portion of a different color, the representation of a chick appearing within the central portion of the disk, the words "Egg Mash" appearing in a rectangle horizontally across the center of the disk and chick, and the words "Just-Right" immediately above the disk. The words "Egg Mash" and "Just-Right" are disclaimed apart from the mark as shown.

This mark is used on egg mash in Class No. 46, Foods and ingredients of foods.

Appellant's mark, which was adopted prior to the entry of appellee into the field, consists of a ring, incomplete at the lower portion for about one-fourth of its extent, a picture of a little girl carrying in one hand a pan of chicken feed, while scattering some of the feed with the other hand, several of the chicks being represented as upon the ground, the whole appearing in the foreground of a farmyard, with a door of a building in the background. Just above this composite picture appear the words "Just Rite." The mark is applied to poultry food, as is the mark of appellee.

The Commissioner found that the words "Just Right" as used in these marks are descriptive, and hence not susceptible of exclusive appropriation by either party. See *Standard Paint Company* v. *Trinidad Asphalt Mfg. Co.*, 220 U. S. 446.

Appellee's design, apart from the disclaimed words, not being "so simple as to be a mere device or contrivance to evade the law and secure the registration of nonregistrable words" (*Beckwith* v. *Com. of Patents*, 252 U. S. 538, 274 O. G. 613; *McIlhenney's Son* v. *Trappey & Sons*, 51 App. D. C. 273, 278 Fed. 582, 299 O. G. 461), and the marks of the parties, apart from the descriptive words, not being descriptively similar, the decision was right and is affirmed.

Affirmed.

U. S. District Court—District of Connecticut.

SCHURICHT *v.* MCNUTT *v.* WILLIS. SCHURICHT *v.* MCNUTT *v.* BURNS.

Decided April 20, 1928.

[26 Fed. Rep. (2d) 388.]

1. WITNESSES—SUBPŒNA DUCES TECUM—NOT ISSUED WHERE EVIDENCE IS SPECULATIVE.

In interference proceeding relating to ammunition patent, in which claim of anticipation by foreign patent was set up, operativeness of foreign patent attempted to be established by showing that same ingredients were used in a certain ammunition, *Held* too speculative and incompetent to authorize issuance of subpœna duces tecum under section 869, Revised Statutes (28 U. S. C. A., sec. 647), to obtain testimony relative to operativeness of such foreign patent.

2. SAME—SAME—NOT ISSUED WHERE FACTS CAN BE OTHERWISE ESTABLISHED.

A subpœna duces tecum under section 869, Revised Statutes (28 U. S. C. A., sec. 647), should not issue where facts to be proved by the papers wanted can be otherwise established, as where a party has in his possession or under his control the means of acquiring the information he seeks to obtain.

3. SAME—SAME—COURT ORDER—HEARING ON COMPETENCY AND MATERIALITY.

Subpœna duces tecum should not issue under section 869, Revised Statutes (28 U. S. C. A., sec. 647), without order of court, and counsel for witness is entitled to be heard on question of competency and materiality, especially where testimony is taken before a United States commissioner or notary public for use in a Patent Office proceeding and where documents or information sought are of a special, confidential, or secret nature.

IN EQUITY.

Interference proceedings between one Schuricht, one McNutt, and one Willis and between one Schuricht, one McNutt, and one Burns. On motions of Burns and Willis to quash subpœna duces tecum addressed to the Remington Arms Company and others, and by McNutt to enforce obedience thereto. Motion to quash granted and motion to enforce denied.

Mr. George Ramsey, for Willis and Burns.

Messrs. Pennie, Davis, Marvin, and *Edmonds* for McNutt.

THOMAS, *D. J.:*

This matter comes before the court on the motion of counsel for Burns and Willis to quash a subpœna duces tecum addressed to Remington Arms Company and to one Herrmann and one Hadley, alleged to be employees of the Remington Arms Company, in connection with depositions being taken in the above interferences pending in the United States Patent Office.

A motion was also made by counsel for McNutt to enforce obedience to the subpœnas. Both motions were heard on March 27, 1928. Counsel for Bruns and Willis and counsel for McNutt filed briefs following an extended oral argument.

The testimony in question is being taken under an order issued by Acting Commissioner of Pat-

ents, Dr. Kinnan, dated January 28, 1928, and is as follows:

The party McNutt has filed a petition that he be permitted to take testimony relative to the operativeness of the disclosure of certain prior art patents set up in his motion to dissolve. The parties have stipulated that such testimony may be taken.

Under the circumstances of the case, the petition is granted, and the Law Examiner is directed to set times for McNutt to take such testimony and times for the other parties to take rebuttal and have hearing of the motions at which such testimony is to be considered.

This order relates to the operativeness of the disclosures of the patent or patents in question. Section 869, Revised Statutes (28 U. S. C. A. sec. 647), under which such subpœnas are asked, provides, inter alia, that—

Such judge, on being satisfied by the affidavit of the person applying, or otherwise, that there is reason to believe that such paper, writing, written instrument, book, or other document is in the possession or power of the witness, and that the same, if produced, would be competent and material evidence for the party applying therefor, may order the clerk of said court to issue such subpœna accordingly.

It is therefore necessary at the outset to determine whether the papers demanded as evidence will be competent and material evidence for the party McNutt under the Patent Office order under which this testimony is being taken.

It appears from the papers on file that McNutt, assignor to Winchester Arms Company, is trying to sustain the burden placed upon him by proving that the priming composition of the Ziegler British patent, No. 14,583 of 1900, has been commercialized in Swiss ammunition which is fully operative and is of the highest quality. From the brief of counsel for Burns and Willis, it appears that there are certain differences between the main disclosure in the Ziegler patent and the Swiss ammunition, at least in the proportions of the ingredients, and that such differences exist does not seem to be seriously denied. It does not seem to me, however, that this question is of any importance, in view of the conclusions hereinafter set forth. The issue in the Patent Office is, Does the Ziegler patent teach persons skilled in the art as it was known when the patent was issued to make an operative primer by following the teachings of the patent, and without independent experiments? In *Wirt* v. *Farrelly et al.* (C. C.) 84 F. 89[1], Judge Wheeler, on page 892, said:

A patent cannot, as an anticipation, properly have implied into it, from necessity, more than it fairly shows, to make it represent an operative structure. What is required, and not so shown, is left for later inventors. *Dashiell* v. *Grosvenor*, 162 U. S. 425, 16 S. Ct. 805 [40 L. Ed. 1025]; *Universal Winding Co.* v. *Willimantic Linen Co.* (C. C.) 82 F. 228.

See, also, *New England Motor Co.* v. *B. F. Sturtevant Co.* (C. C.) 140 F. 866, where Judge Hazel, on page 869, repeated the rule stated in the Wirt Case, supra.

The rule as to anticipation by a foreign patent is very strict, and is well expressed in the decision in *Permutit Co.* v. *Harvey Laundry Co. et al.* (D. C.) 274 F. 937. At page 940, Judge Hazel said:

Inasmuch as controlling importance is attached by defendants to what is described and illustrated in the prior foreign publications, the rule as to them may be stated here. Foreign publications, to constitute them anticipations of a later invention, must disclose a complete and operative structure, and, indeed, the description given must be sufficiently clear and definite and understandable to enable persons skilled in the art or science to which the invention or device belongs to practice and construct it. *Seymour* v. *Osborne*, 11 Wall. 516, 20 L. Ed. 33; *Badische Anilin & Soda Fabrik* v. *Kalle* (C. C.) 94 F. 163. Drawings or exhibits, if any, shown in connection with prior publications must be considered with the published description of the device, which the law requires must be in "full, clear, and exact terms," so that those desiring to manufacture the article or reduce it to practice may do so without either independent experiments or the exercise by them of the inventive faculty. If the prior description and drawings relied on do not conform to that rule, a subsequently issued patent in this country for the same invention is not defeated. *Hanifen* v. *Godshalk Co.* (C. C.) 84 F. 649. In Robinson on Patents, vol. 1, section 329, it is stated that the invention described in the prior publication must be identical in all respects with that whose novelty it contradicts.

The Courts of Appeals for the Second Circuit, in affirming the decision, *Permutit Co.* v. *Harvey Laundry Co.*, 279 F. 713, speaking by Judge Manton, said, on page 719:

If prior patents and publications can be reconstructed by extraneous efforts to fit the exigency of the case, it would, as was said in *Badische Anilin & Soda Fabrik* v. *Kalle & Co.*, 104 F. 802, 44 C. C. A. 201, require an inquiry, not only as to what the publication communicates to the public, but "it will be transferred to an endeavor to ascertain what its author intended to communicate." We cannot read into this article what is not there, and which it would be necessary to obtain from the later development of the art in order to meet with appellee's success.

In 1906 Gans applied for the German patent 197,111. This patent covers the invention made in artificial zeolites. It deals with the precipitation system of softening water, but is devoted to the method of manufacturing zeolites. The patent fails to anticipate the patent in suit. It was the same inventive mind at work. When he applied for his German patent, he did not disclose the subject-matter of the patent in suit, because it was three years later when he disclosed his present inventive thought and applied for the patent in suit. He does not describe the same idea of means in the same stage of development as that which his later invention embodies. A reading of the statement of the German patent fails to disclose a description of a complete and operative art or instrument ready for immediate employment by the public. *Westinghouse* v. *Great Northern*, 88 F. 258, 31 C. C. A. 525.

In *Carson* v. *American Smelting & Refining Co.*, 4 F. (2d) 463, Judge Gilbert, speaking for the Circuit Court of Appeals for the Ninth Circuit, states the rule in the following language on page 465:

A foreign patent is to be measured as anticipatory, not by what might have been made out of it, but by what is clearly and definitely expressed in it. An American patent is not anticipated by a prior foreign patent, unless the latter exhibits the invention in such full, clear, and exact terms as to enable any person skilled in the art to practice it without the necessity of making experiments. *Seymour* v. *Osborne*, 11 Wall. 516, 555, 20 L. Ed. 33; *Hanifen* v. *Armitage* (C. C.) 117 F. 845; *Permutit Co.* v. *Harvey Laundry Co.* (C. C. A.) 279 F. 713; *General Electric Co.* v. *Hoskins Mfg. Co.*, 224 F. 464, 140 C. C. A. 150. In *Westinghouse Airbrake Co.* v. *Great Northern Ry. Co.*, 88 F. 258, 31 C. C. A. 525, the court said: "The prophetical suggestions in English patents of what can be done, when no one has ever tested by actual and hard experience and under the stress of competition the truth of these suggestions, or the practical difficulties in the way of their accomplishment, or even whether the suggestions are feasible, do not carry conviction of the truth of these frequent and vague statements."

This rule was later quoted and followed by Judge Van Orsdel in *Re Ek*, 19 F. (2d) 677, App. D. C. 203.

[1] Counsel for McNutt has referred to a number of decisions setting forth a rule where operativeness of a patent in suit is attacked. The question of operativeness of prior art patents, as in this case, is somewhat different from the question of operativeness of a patent in suit. This is very properly so, as the benefit of the doubt should be resolved in favor of the subsequent inventor, whereas a patent in suit must be proven incapable of operation in order to overcome the presumption of its validity. Even though it could be proven that the Swiss ammunition contains the same ingredients and in the same proportions as taught by the Ziegler patent (which is denied by counsel for Burns and Willis,) such proof would not be material and relevant, because manufacturers of Swiss ammunition may have some secret knowledge not disclosed in the Ziegler patent which would enable them to make operative ammunition, whereas others, without this knowledge, would not be able to make operative ammunition from the teachings of the Ziegler patent. Whatever is not taught by the patent and requires independent experimentation is left for future inventors. If operative ammunition can be made by trying out the mixture set forth in the patent, the operativeness of the Ziegler patent is established, whereas, if operative ammunition can not be made by persons skilled in the art by following the disclosure of the patent without independent experimentation, no amount of proof of the operativeness of the Swiss ammunition will prove the operativeness of the Ziegler patent. It is therefore clear that evidence concerning the Swiss ammunition is so speculative and so obviously incompetent and immaterial that the subpœna should be quashed.

[2] Furthermore, even if the operativeness of the Swiss ammunition was material, the subpœna should be recalled under the rule that a subpœna should not issue where the facts to be proved by the papers wanted can be otherwise established, as where a party has in his possession or under his control the means for acquiring the information he seeks to obtain, *In re Romine* (D. C.) 138 F. 837, at page 843, and cases there cited, because (*a*) Winchester already has Remington's analysis as well as its own and that of the Frankford Arsenal and Picatinny; and (*b*) the matter to be proved is open to it by having suitable tests of the Ziegler patent disclosure made by experts.

[3] It seems that the witnesses appeared before the United States commissioner and testified, but that they refused to answer many questions under instructions of counsel, who argued that the subpœna was not properly issued. When the matter was brought before the court at the hearing on March 27, counsel for Remington, Burns, and Willis based his refusal on the ground, first, that the subpœna had been issued without an order of court; and, second, that counsel should have been heard on the question of competency and materiality before the subpœna was issued. *Tucker* v. *Peiler* (C. C. A.) 297 F. 570.

This is especially the case where testimony is taken before a United States commissioner or notary public for use in a Patent Office proceeding, and where the documents or information sought are of a special, confidential, or secret nature. In *Dancel et al.* v. *Goodyear Shoe Machinery Co.* (C. C.) 128 F. 753, at page 760, Judge Colt said:

It is to be borne in mind, in this connection, that the compulsory production of books and papers in court, where all questions as they arise can be submitted to and decided by the court, is very different from their compulsory production before a notary public under section 863 [28 U. S. C. A. sec. 639], or an examiner under equity rule 67, where the magistrate has little power to afford protection to the witness.

However, counsel were advised at the hearing that the subpœna was issued upon order of court, which order, however, was apparently not served on counsel. The attorney for the witnesses had a right to be heard on the validity of the subpœna and to protect witnesses and the Remington Company from disclosing documents not properly demandable under subpœna. Perhaps a better way to test the question would have been by a timely application to the court for an order to quash the subpœna until counsel could be heard. At the hearing on the motion, counsel explained that this was not possible on account of the short time between service of the subpœna and the return thereon.

The motion to quash is granted, and the motion to enforce is denied, and it is so ordered.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

883,729, J. A. Merrett, Cylinder drying machine, C. C. A., 2d Cir., Doc. 9840, *J. R. Hatmaker* v. *The Dry Milk Co.* Affirmed (notice dated June 26, 1928).

1,011,598, W. E. Fitch, Fireplace damper, C. C. A., 6th Cir., Doc. 4919, *Peerless Mfg. Co.* v. *Chattanooga Foundry & Roofing Co.* Affirmed June 12, 1928.

1,071,027, F. A. Bruckman, Automatic pastry-making machine, filed June 16, 1928, D. C., N. D. Ohio, E. Div., Doc. 2605, *McLaren Consolidated Cone Corp.* v. *The Noss Pretzel & Cone Co.*

1,084,820, T. Pescatore, System of transporting heavy loads by motor vehicles, filed June 20, 1928, D. C., E. D. Mich. (Detroit), Doc. 2784, *Lapeer Trailer Corp.* v. *Guaranty Trust Co.*

1,146,938, H. Hubbell, Attachment-plug receptacle, filed June 20, 1928, D. C. Conn. (New Haven), Doc. 1959, *H. Hubbell* v. *Gaynor Electric Co., Inc.*

1,149,580, Hofmann & Gottlob, New caoutchouc substance and vulcanization product thereof, C. C. A., 2d Cir., Doc. 9888, *The Grasselli Chemical Co.* v. *National Aniline & Chemical Co., Inc.* Affirmed (notice dated June 26, 1928.)

1,152,396, G. W. Combs, Means for supporting and controlling gyratory structures, C. C. A., 6th Cir., Doc. 4977, *Great Western Mfg. Co.* v. *R. G. Lowe* (*Lowe Mfg. Co.*). Claims 6, 7, 11, 19, 20, and 21 held not infringed June 16, 1928.

1,264,770, J. F. Brennan, Brake tester, D. C., N. D. Calif. (San Francisco), Doc. E 2080, *Brake Testing Equipment Corp. et al.* v. *L. Gillig et al.* Patent held valid and infringed June 16, 1928.

1,290,060, A. J. Boland, Enameling furnace, filed June 18, 1928, D. C., E. D. Mich., S. Div., Doc. 2765, *A. J. Boland* v. *Victor Peninsular Co.*

1,336,901, D. Handelan, Hot-air heating system, filed June 21, 1928, D. C., S. D. Ill. (Springfield), Doc. 918, *The Twentieth Century Heating & Ventilating Co.* v. *H. S. Myers et al.*

1,391,936, S. Bosky, Brassière, D. C., S. D. N. Y., Doc. E 38/251, *S. Bosky* v. *F. Knopf et al.* (*Kaybee*). Patent held valid and infringed June 25, 1928.

1,404,539, C. K. Nelson, Confection, C. C. A., 6th Cir., Doc. 4996, *Eskimo Pie Corp.* v. *National Ice Cream Co.* Affirmed June 13, 1928.

1,407,789, O. P. Erhardt, Beverage mixer, filed June 19, 1928, D. C., E. D. Mich., S. Div., Doc. 2768, *The A. C. Gilbert Co.* v. *United Electrical Mfg. Co.*

1,458,960, W. E. White, Bar spacer, filed May 15, 1928, D. C., N. D. Ill., E. Div., Doc. 8241, *Kalman Steel Co. et al.* v. *Universal Form Clamp Co. et al.*

1,460,716, B. F. Greer, Book-form savings bank, filed May 12, 1928, D. C., N. D. Ill., E. Div., Doc. 8202, *Banker's Utilities Co., Inc., et al.* v. *Stronghart Co.* Same, filed June 27, 1928, D. C., S. D. N. Y., Doc. E. 45/276, *Banker's Utilities Co., Inc.*, v. *Interstate Trust Co.*

1,475,980, O. Zerk, Lubricating apparatus, filed June 23, 1928, D. C. Mass., Doc. E 2986, *The Bassick Mfg. Co.* v. *Commonwealth Screw Co.*

1,477,600, L. W. Shields, Belt buckle, filed May 19, 1928, D. C., N. D. Ill., E. Div., Doc. 8257, *Hickok Mfg. Co., Inc.*, v. *S. B. Levick Co.*

1,478,687, C. L. Turner, Bottle closure, D. C., S. D. Calif. (Los Angeles), Doc. K–87–J, *B. H. Turner* v. *R. W. W. Grigsby*. Dismissed without prejudice May 21, 1928.

1,488,237, A. C. Durdin, jr., Float-actuated electric switch-operating mechanism, filed May 14, 1928, D. C., N. D. Ill., E. Div., Doc. 8240, *Chicago Pump Co.* v. *Weil Pump Co. et al.*

1,509,382, H. J. Wagenhorst, Automobile wheel rim, C. C. A., 6th Cir., Doc. 4804, *J. H. Wagenhorst* v. *Hydraulic Steel Co. et al.* Affirmed June 16, 1928.

1,516,012, G. F. Hinrichs, Poultry packing, filed June 15, 1928, C. C. A., 8th Cir. (St. Louis), Doc. 8232, *G. F. Hinrichs, Inc.*, v. *L. C. Henderson et al.* (*Henderson Produce Co.*).

1,561,836, N. Q. Donnelly, Apron, filed June 18, 1928, D. C., S. D. N. Y., Doc. E 45/313, *Donnelly Garment Co.* v. *J. Beim et al.* Same, Doc. E 45/166, *Donnelly Garment Co.* v. *Calrose Mfg. Co.* Patent held valid and infringed June 22, 1928. Same, filed May 11, 1928, D. C., N. D. Ill., E. Div., Doc. 8199, *Donnelly Garment Co.* v. *D. Nathanson.* Doc. 8200, *Donnelly Garment Co.* v. *A. G. Knell et al.* Doc 8201, *Donnelly Garment Co.* v. *L. Broyde.*

1,581,188, C. G. Fink, Process of electrodepositing chromium and of preparing baths therefor, filed June 27, 1928, D. C., S. D. N. Y., Doc. E 45/375, *United Chromium, Inc.*, v. *L. Weisberg et al.* (*Weisberg & Greenwald*).

1,617,552, O. Strufe, Refrigerator, filed May 16, 1928, D. C., N. D. Ill., E. Div., Doc. 8244, *O. Strufe* v. *The American Refrigerator Corp.*

1,665,428, C. Wagner, Ditcher, filed June 23, 1928, D. C. Colo. (Denver), Doc. 8727, *C. Wagner* v. *J. Kensler.*

Des. 66,281, L. E. Ellis, Textile fabric, D. C., S. D. N. Y., Doc. E 38/326, *L. E. Ellis* v. *A. Shapiro & Son Co., Inc., et al.* Patent held valid and infringed June 20, 1928.

Des. 75,242, A. J. Heinke, Textile fabric, D. C., S. D. N. Y., Doc. E. 45/223, *H. R. Mallinson & Co., Inc.*, v. *The Style Dress Co., Inc.* Patent held valid and infringed June 20, 1928.

Re. 15,733, Kesten & Osborne, Automatic brake for elevators, filed June 25, 1928, D. C., S. D. N. Y., Doc. E 45/361, *Otis Elevator Co.* v. *Gurvey Elevator Co.*

Re. 16,879, E. Mayer, Device for optically measuring light, photometer, filed June 25, 1928, D. C., S. D. N. Y., Doc. E. 45/360, *Drem Products Corp.* v. *B. Hopfen et al.*

Trade-Marks Canceled.

40,832. Eggs. The Chillicothe Packing Company, Chillicothe, Ohio. Registered July 28, 1903. Canceled July 30, 1928.

134,028. Certain named foods. Mexican Products Corporation, Nogales, Ariz. Registered August 10, 1920. Canceled July 30, 1928.

166,530. Canned fish. José María Castillo, Bilbao, Provincia de Vizcaya, España. Registered April 3, 1923. Canceled July 30, 1928. (International Registration No. 797. Registered January 29, 1923.)

197,210. Dried fruits. California Prune & Apricot Growers Assn., San Jose, Calif. Registered April 14, 1925. Canceled July 30, 1928.

211,752. Preparation for the digestive organs and the liver. Charles Frederick Schibener, doing business as The Drew Pharmacal Co., Buffalo, N. Y., and Toronto, Canada. Registered April 20, 1926. Canceled July 30, 1928.

221,931. Girls' coats. Phil Klein, New York, N. Y. Registered December 14, 1926. Canceled July 30, 1928.

240,716. Men's suits. L & M System Clothes, Inc., New York, N. Y. Registered April 3, 1928. Canceled July 30, 1928.

Adjudicated Patents.

(D. C. La.) The Henderson patent, No. 1,422,202, for improvements in dry kilns for drying lumber, *Held* not infringed. *Henderson* v. *Welch Dry Kiln Co.*, 26 F. (2d) 810.

(D. C. Pa.) The Elliott patent, No. 1,457,153, relating to removing oxygen from water, claims 4–9 and 11–18, inclusive, *Held* not infringed. *Elliott Co.* v. *H. S. B. W.-Cochrane Corporation*, 26 F. (2d) 815.

(D. C. Pa.) The Elliott patent, No. 1,497,491, for removal of oxygen from hot water, *Held* not infringed. *Id.*

(D. C. Pa.) The Elliott reissue patent, No. 15,866, relating to removing oxygen from water, *Held* invalid because claims in question were not within same invention as set out in original patent. *Id.*

Disclaimers.

1,292,081.—*Joseph Sachs*, Hartford, Conn. ELECTRIC SWITCH. Patent dated January 21, 1919. Disclaimer filed August 1, 1928, by the patentee, *Colts Patent Fire Arms Manufacturing Co.*, a Corporation, consenting to and ratifying this disclaimer "in so far as its interest in the aforesaid patent may appear."

Hereby enters this disclaimer as follows:

"He hereby disclaims all switches of the character described in claims 12, 13, 14, 15, 16, 17, 18, 19, 20, and 21 except those wherein the actuator extends transversely of the switching members and wherein each connection or coupler between a switching member and the actuator is rigidly and fixedly secured to its switching member and is provided with an open slot for receiving the actuator."

1,301,175.—*Joseph Sachs*, Hartford, Conn. ELECTRIC SERVICE AND METER-TESTING SYSTEM. Patent dated April 22, 1919. Disclaimer filed August 1, 1928, by the patentee, *Colts Patent Fire Arms Manufacturing Co.*, a Corporation, consenting to and ratifying this disclaimer "in so far as its interest in the aforesaid patent may appear."

Hereby enters this disclaimer as follows:

"He hereby disclaims claims 11 and 12.

"He hereby disclaims all constructions of the character disclosed in the specification or drawings or described in claims 1, 2, 3, 6, 7, 8, 9, 10, and 13 except those wherein the load side connectible means includes an accessible fuse and fuse receiving contacts and all of the remainder of the said means is inaccessibly inclosed.

"He hereby disclaims from the scope of claims 4 and 5 all constructions of the character described therein except those wherein the load side connectible means includes an accessible fuse and fuse receiving contacts and all of the remainder of the said means is inaccessibly enclosed, and wherein the said load side connectible means also includes a circuit opening connecter adapted to be manually opened independently of the service side connectible means and without removing the load side connectible fuse from its receiving contacts."

1,657,716.—*George B. Hinton*, Mexico, Mexico. PROCESS OF MAKING CEMENTITIOUS MATERIAL OF CELLULAR STRUCTURE. Patent dated January 31, 1928. Disclaimer filed August 1, 1928, by the patentee.

Hereby enters this disclaimer to that part of the specification which is in the following words, to wit: "sodium resinate" occurring in line 70 of page 1 of the specification.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 21, 1928.

[VOL. 373. No. 3.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 263,085. HOSTLER COAL & COKE COMPANY, Chicago, Ill. Filed Mar. 13, 1928.



SENECA

Chief of the Chiltons

For Coal.

Claims use since June 1, 1927.

Ser. No. 264,183. THE OHIO LEATHER COMPANY, Girard, Ohio. Filed Apr. 2, 1928.



No claim is made to the word "Calf" apart from the mark shown in the drawing.

For Leathers.

Claims use since November, 1927.

Ser. No. 264,546. U. S. FUR AUCTION BROKERAGE CORP., New York, N. Y. Filed Apr. 7, 1928.



Applicant disclaims the use of the words "The Logical Place to Buy and Sell Your Products" apart from the mark shown in the drawing.

For Furs.

Claims use since January, 1923.

Ser. No. 265,304. TENNESSEE PRODUCTS CORPORATION, Nashville, Tenn. Filed Apr. 23, 1928.



The words "Smokeless Hardwood Charcoal" are descriptive and are disclaimed as part of the mark.

For Charcoal.

Claims use since March, 1928.

Ser. No. 267,163. MARTHA E. TRAVERS, Columbus, Ohio. Filed May 28, 1928.

OXY-DENE

For Marlaceous Materials—Namely, Travertine in its Raw State for Use in Aquarium Water.
Claims use since 1926.

Ser. No. 267,226. BLACK STAR MINK FARM, Chilton, Wis. Filed May 31, 1928.

BLACK STAR

For Fur Pelts.
Claims use since April, 1928.

Ser. No. 267,254. THE HILL & GRIFFITH CO., Cincinnati, Ohio. Filed May 31, 1928.

LAV-O-BOND

No registration rights are claimed for the word "Bond" apart from the mark as shown on the drawing.
For Blend of Natural Materials to be Used in Molding and Core Sands Having Bonding, Venting, and Peeling Properties.
Claims use since May 1, 1928.

Ser. No. 267,814. UNITED RABBITRIES MARKETING INC., Duarte, Calif. Filed June 9, 1928.

URMC

For Raw or Partly-Prepared Materials—Namely, Hides and Furs.
Claims use since Oct. 15, 1926.

Ser. No. 267,952. ED. A. GORMAN, INCORPORATED, Dayton, Ky. Filed June 13, 1928.

BLU-GLO COAL

The words "Blu-Glo Coal" are disclaimed apart from the mark as shown in the drawing.
For Coal.
Claims use since January, 1928.

CLASS 2.

Receptacles.

Ser. No. 260,132. NELLIE M. PAUL, Easton, Pa. Filed Jan. 14, 1928.

HIGH HANDS A K Q J 10 DRINKING CUPS

No claim is made to the words "Drinking Cups."
For Individual Paper Drinking Cups.
Claims use since Oct. 24, 1927.

Ser. No. 266,890. SÄURESCHUTZ-GESELLSCHAFT M. B. H., Berlin-Alt-Glienicke, Germany. Filed May 23, 1928.

Haveg

For Storage, Dissolving, and Transport Vessels or Tanks, Casings, and Cylinders All Made of or Provided with Coatings and Linings Which are Chemically Resistant and Composed of Plastic Compositions.
Claims use since Nov. 30, 1922.

Ser. No. 267,050. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis. Filed May 26, 1928.

Jamesway

For Mangers for Metal Cow Stalls, Calf, Bull, and Hog Pens, Stock and Storage Tanks.
Claims use since Mar. 1, 1921.

Ser. No. 267,758. DAIGGER CORPORATION, Chicago, Ill. Filed June 9, 1928.

SERV-A-KONE

The word "Kone" is disclaimed apart from the mark as shown in the drawing.
For Tray for Ice-Cream Cones.
Claims use since Dec. 31, 1927.

Ser. No. 268,599. GENERAL FIBRE BOX COMPANY, West Springfield, Mass. Filed June 25, 1928.

HY-LITE

For Corrugated-Fibre Boxes.
Claims use since Mar. 1, 1928.

Ser. No. 269,143. PI BETA PHI SETTLEMENT SCHOOL OF THE PI BETA PHI FRATERNITY, Gatlinburg, Tenn. Filed July 5, 1928.

ARROWCRAFT

For Textile Goods—Namely, Bags and Bag Bodies Baskets, and Trays of Splint, or Bark, or Willow, or Corn Shuck, or Similar Material or of a Combination Thereof, and Certain Wooden Articles—Namely, Flower Vases, Drinking-Glass Coasters, and Boxes for Holding Cigarettes, or for Similar Use.
Claims use since about July 11, 1927.

CLASS 3.

Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 269,342. W. W. WINSHIP & SONS, INC., Utica, N. Y. Filed July 9, 1928.

MIGRATOR

For Wardrobe Trunks, Leather and Artificial Leather Hatboxes, Wardrobe Hatboxes, Wardrobe Suitcases and Carrying Cases, and Trunks.
Claims use since Sept. 14, 1927.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 231,983. CRYSTAL CHEMICALS, INC., Pittsburgh, Pa. Filed May 21, 1926.

Crystal

No claim is made for the words "Antiseptic, Economical," and "Pure" placed within the border of the triangle apart from the mark shown in the drawing. The trade-mark consists of the word "Crystal" in ornate white script letters having a narrow black border above a black triangular frame whose one side is placed horizontally as a base, and the word "Crystal" is found inside the frame on a white ground. The two sides of the frame above the base contain the words "Antiseptic" and "Economical," and the base of the frame contains the word "Pure," all in white letters. The ornate-lettered word above the triangle and the triangle are formed on an orange-colored background.
For Metal-Polish Cleaning Compound Consisting of a Jellylike Composition.
Claims use since Apr. 1, 1926.

Ser. No. 261,802. PAUL PETER MÜLHENS, doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse, No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Filed Feb. 17, 1928.



For Soaps Including Toilet Soaps and Shaving Sticks.
Claims use since March, 1926.

Ser. No. 262,374. FRANCIS T. MUTSCHLER, Sunbury, Pa. Filed Feb. 28, 1928.



For Automobile Top Dressing.
Claims use since January, 1924.

Ser. No. 267,077. PERMANIZING STATIONS OF AMERICA, INC., Denver, Colo. Filed May 26, 1928.

PERMO

For Cleaner for Automobile Bodies, Painted, Varnished, and Other Surfaces.
Claims use since on or about Dec. 1, 1926.

Ser. No. 267,671. SIMON MANUFACTURING COMPANY, Richmond Hill, N. Y. Filed June 7, 1928.



No claim is made to the word "Products" apart from the mark shown.
For Metal Polish.
Claims use since May 1, 1928.

Ser. No. 268,167. NELL OLIVER, Portland, Oreg. Filed June 16, 1928.



The words "Cleansing Soap" and "Price 50¢" are not claimed apart from the other features of the mark. The name "Nell Oliver" is applicant's signature.
For Soap.
Claims use since May 23, 1928.

Ser. No. 268,644. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed June 25, 1928.



No claim is made to the printed matter appearing on the drawing with the exception of the words "Flit" and "Stanco Incorporated."
For Liquid Cleansing Compounds and Detergents for use on Glass, Porcelain, Tile, and the Like and for Laundering Operations.
Claims use since May 25, 1928.

Ser. No. 268,768. FRANK A. BUASS CO., INC., Brooklyn, N. Y. Filed June 28, 1928.



For Metal Polishes.
Claims use since about Feb. 29, 1928.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 203,464. LOUIS B. FRANCHINA, Cleveland, Ohio. Filed Oct. 6, 1924.

GILT EDGE

For Family Medicines and Toilet Articles—Namely, Internal Medicines for Stomach and Liver, Blood Tonic and Eliminant, Alterative, Iodide of Potassium, Antiseptic Ointment for Healing Boils, Preparation for Treating Inflammations of Throat and Lungs, Preparation for Removing Corns and Callouses, Laxative Tablets, Sanative Washes, Douche Tablets (Sanitary Wash), Tablets for Treating Colds, Tonics for Nerves and Digestion (Beef, Iron, Wine, Quinine), Antiseptic Ointments and Plasters.
Claims use since Jan. 1, 1919.

Ser. No. 251,199. PAMINA PREPARATIONS COMPANY, INC., New York, N. Y. Filed June 27, 1927.



For Face, Hand, and Skin Creams, Brilliantine, Eye Lotions, Eyebrow Pencils, Hair Tonics, Clay Packs, Lip Sticks, Muscle Oil, Mascara, Nail Polish and Preparations for Removing Nail Polish, Powder, Rouge, and Hair and Skin Tonic.
Claims use since about June 21, 1927.

Ser. No. 251,516. SOUTHEASTERN CHEMICAL CO., Jacksonville, Fla. Filed July 5, 1927.



For Dry Drugs—Namely, Boric Acid, Oxalic Acid, Alum, Blue Vitriol, Catnip, Prepared Chalk, Copperas, Cream of Tartar, Flaxseed Meal, Whole Flaxseed, Senna Leaves, Compound Licorice Powder, Moth Balls, Orris Root, Sage, Epsom Salt, Rochelle Salts, Saltpetre, Sassafras, Seidlits Powders, Sodium Bicarbonate, Sulphur; and Liquids—Namely, Carbolic Acid, Aromatic Spirits of Ammonia, Household Ammonia, Bay Rum, Fld. Ext. Cascara, Ess. Peppermint, Ext. Witch-Hazel, Glycerine, Glycerine and Rose-Water Mixture, Lime Water, Larkspur Lotion, Blue Ointment, Castor Oil, Camphorated Oil, Citronella Oil, Sweet Oil, Paregoric, Spirits Camphor, Spirits Nitre, Spirits Turpentine, Tincture Arnica, Tincture Iodine (with or without Applicators), Tincture Chloride of Iron, Toothache Drops.
Claims use since May 14, 1927.

Ser. No. 257,782. BROWN REMEDY CO., INC., Warsaw, N. C. Filed Nov. 19, 1927.



The words "Cold and Fever Relief" are disclaimed apart from the mark as shown.
For Medicinal Preparation for Treating Colds, Influenza, La Grippe, Chills, Fever, Malarial Fever, Bilious Headache, and Loss of Appetite.
Claims use since Sept. 12, 1927.

Ser. No. 261,667. FELIX ALFARO DIAZ, doing business as Laboratoires Filarysine, Santurce, P. R. Filed Feb. 14, 1928.

Femisana
DU DR. DUMONT

No claim is made to the words "Du Dr. Dumont" apart from the mark shown.
For Pharmaceutical Preparation for Diseases Peculiar to Women.
Claims use since July 8, 1926.

Ser. No. 262,872. LEO ROSS, doing business as Aseptine Products Company, Brooklyn, N. Y. Filed Mar. 9, 1928.



Applicant disclaims exclusive appropriation of the descriptive words "Mouthwash to Keep Breath Sweet and Fresh" and the geographical terms "Brooklyn" and "New York" as shown in the drawing.
For Mouth Wash and Gargle.
Claims use since Mar. 1, 1927.

Ser. No. 263,786. PARFUMS LIONCEAU, INC., New York, N. Y. Filed Mar. 26, 1928.

LUNE
DE
VENISE
LIONCEAU
PARIS

No claim is made to the word "Paris" except as associated with the other features of the mark.
For Perfumes, Toilet Waters, Face Powder, Talcum Powder, Bath Powder, and Bath Salts.
Claims use since Mar. 8, 1928.

Ser. No. 263,915. BAROUH HERMANOS, Habana, Cuba, Filed Mar. 29, 1928.



The representation of the container appearing on the drawing is disclaimed.

For Perfumes, Toilet Powders, and Toilet Waters.

Claims use since about January, 1925.

Ser. No. 265,258. CEMROC, INC., Cincinnati, Ohio. Filed Apr. 23, 1928.

CENROC-A

For Chemical Compound for Use in Concrete to Produce a Quick-Setting Concrete Impervious to Water.

Claims use since Dec. 29, 1927.

Ser. No. 265,259. CEMROC, INC., Cincinnati, Ohio. Filed Apr. 23, 1928.

CENROC-B

For Chemical Compound for Use in Mortar to Produce a Quick-Setting Concrete Impervious to Water.

Claims use since Feb. 11, 1928.

Ser. No. 265,360. B & C CHEMICAL CO., Ridgefield, N. J. Filed Apr. 25, 1928.



Applicant disclaims the right to use as a part of its trade-mark the representation of a tire.

For Preparation Composed of Chemicals and Oils for Use to Prevent Rubber from Adhering to Molds During Vulcanization and to Lessen Friction between Inner and Outer Tire Tubes.

Claims use since Feb. 15, 1928.

Ser. No. 266,319. MIGUEL J. HERNANDEZ, doing business as Meniere Laboratories, New York, N. Y. Filed May 12, 1928.



The words "Trade-Mark" as shown on the drawing are not claimed as part of the mark, as they are only descriptive.

For Pharmaceutical Preparation Indicated in the Treatment of Anæmia, Convalescence, Cachetic States, Chlorosis, Atony, Enervation, and Neurasthenia.

Claims use since July 1, 1925.

Ser. No. 266,441. REX RESEARCH CORPORATION, Toledo, Ohio. Filed May 15, 1928.

STOCKAID

For Insecticide and Insect Repellent.

Claims use since Nov. 27, 1925.

Ser. No. 266,688. THE SOLID CARBONIC COMPANY, LTD., New York, N. Y. Filed May 19, 1928.

CARBONICE

For Solid Carbon Dioxide.

Claims use since Apr. 23, 1928.

Ser. No. 266,785. H. TH. BÖHME A. G., Chemnitz, Germany. Filed May 22, 1928.

Oxycarnit

For Chemical Dye Aids—Namely, Moistening Preparations, Thread and Fibre Protecting Preparations, Thread and Fibre Penetrating Preparations, Smoothing Preparations, and Tanning Preparations.

Claims use since Apr. 15, 1927.

Ser. No. 266,972. THE BRITISH DRUG HOUSES, LIMITED, London, England. Filed May 25, 1928.

RADIOSTOL

For Medicinal Preparation Containing Vitamin D Used for the Treatment of Rickets, and All Other Conditions Arising from Vitamin D Deficiency.

Claims use since Feb. 17, 1927.

Ser. No. 267,143. PHILFUELS COMPANY, Bartlesville, Okla. Filed May 28, 1928.



The words "Concentrated Natural Gas" are disclaimed apart from the mark as shown on the drawing.

For Concentrated Natural Gas.

Claims use since Apr. 15, 1928.

Ser. No. 267,172. WIDMANN & TEAH, INC., Lock Haven, Pa. Filed May 28, 1928.

WIDTEACO

For Medicinal Preparations and Products—Namely, Analgesic Balm, Suppositories, Diuretics, General Tonics, Preparations for the Relief of Headache, Neuralgia, Colds, Grippe, and Affections and Disorders of the Liver and Kidneys, Throat Affections, a Corn-Removing Preparation, Laxative Pills and Tablets, Dyspepsia Tablets, Nerve and Bone Liniment, Boil Salve, Earache Oil, Pile Ointments, Toothache Drops, Cough Syrup, Hand Lotion, Sage and Sulphur Compound, Larkspur Compound, and Healing Salve.

Claims use since Mar. 1, 1922.

Ser. No. 267,347. HARVEY BOWMAN, doing business as The Sunolive Home, Maple Glenn, Pa. Filed June 2, 1928.

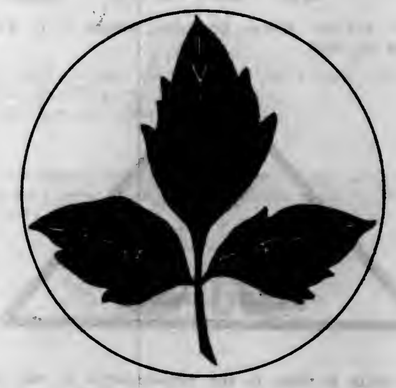


The words "Olive Salve" are disclaimed apart from the mark as shown on the drawing.

For Medicated Salve for Treating Boils and Sores.

Claims use since May 25, 1928.

Ser. No. 267,504. FRANCIS X. OSTERMANN, Englewood, N. J. Filed June 5, 1928.



For Preparation for the Relief of Poison-Ivy Affections.

Claims use since Apr. 4, 1928.

Ser. No. 267,761. FAIRCHILD BROS. & FOSTER, New York, N. Y. Filed June 9, 1928.

CITROLASE

For Concentrate or Extract Obtained from Citrus Fruit, Free from Inert Cellular Tissue, Designed to Take the Place of the Fresh Juice and the Edible Substance of the Citrus Fruits, and for Whatever Purpose They are Employed, as a Prophylactic Against Vitamin-Deficiency Disorders.
Claims use since May 1, 1928.

Ser. No. 267,849. WILLIAM T. MCHENRY, doing business as W. T. McHenry, Ganado, Tex. Filed June 11, 1928.

DR. McHENRY



The mark consists of the photograph of William T. McHenry.
For Preparation for Treating Rheumatic and Kidney Trouble, Coughs, and Blood Poisoning.
Claims use since Jan. 1, 1916.

Ser. No. 268,105. MARTIN LUNEBURG, Astoria, N. Y. Filed June 15, 1928.



No claim is made to the representation of the container apart from the mark shown on the drawing.
For Cosmetics—Namely, Face Powder, Rouge, Lip Stick, and Nail Polish.
Claims use since March, 1928.

Ser. No. 268,232. PETER L. MAVRELIS, doing business as The Mavreline Company, Waterloo, Iowa. Filed June 18, 1928.

MAVRELINE

For Salve for Treating Eczema and Skin Sores, and Salve for Treating Chronic Sores and Varicose Veins.
Claims use since Dec. 5, 1927, on salve for treating eczema and skin sores, and since Jan. 13, 1928, on salve for treating chronic sores and varicose veins.

Ser. No. 268,390. PORTITE FACIAL PRODUCTS CO., Miami, Fla. Filed June 20, 1928.

PORTITE

For Facial Products—Namely, Cleansing Cream, Tissue Cream, and Foundation Cream.
Claims use since June 18, 1928.

Ser. No. 268,406. HENRY K. WAMPOLE AND COMPANY, INCORPORATED, Philadelphia, Pa. Filed June 20, 1928.

APERGOLS

For Medication in Capsule Form for the Treatment of Certain Menstrual Disorders—Namely, Amenorrhea, Dysmenorrhea, and Menorrhagia.
Claims use since about 1902.

Ser. No. 268,541. HART DRUG CORPORATION, Miami, Fla. Filed June 23, 1928.

PROCTUROL

For Preparations for the Treatment of Hemorrhoids.
Claims use since Apr. 2, 1928.

Ser. No. 268,824. BORIS J. STRARN, doing business as Orocide Chemical Company, Chicago, Ill. Filed June 28, 1928.

OROCIDE

For Mouth Wash.
Claims use since June 18, 1928.

Ser. No. 268,953. THE NICOTEX COMPANY, New York, N. Y. Filed June 30, 1928.

NICOTEX

For Preparation for Removing Tobacco and Nicotine Stains from the Skin.
Claims use since about June 26, 1928.

Ser. No. 268,963. BONATONE LABORATORIES, Los Angeles, Calif. Filed July 2, 1928.

BONATONE

For Medicated Chewing Gum.
Claims use since about Apr. 1, 1928.

Ser. No. 268,977. CHARLES S. FREEDMAN, Los Angeles, Calif. Filed July 2, 1928.

RECTALOIDS

For Suppositories.
Claims use since Apr. 2, 1928.

Ser. No. 269,324. ISLAM SHABAN, Mansfield, Ohio. Filed July 9, 1928.



The portrait is that of applicant.
For Preparation Used in the Treatment of Tuberculosis and Bronchial Ailments.
Claims use since May 29, 1928.

Ser. No. 269,415. IRVING MCEWEN, Omaha, Nebr. Filed July 11, 1928.

CHLORAIDE

For Liquid Disinfectant and Deodorant Preparation.
Claims use since June 15, 1928.

Ser. No. 269,507. LUISA BOCCHIO, doing business as Louisa Bocchio & Co., Garfield, N. J. Filed July 13, 1928.

CILEO

For Salve for Treatment of Cancer.
Claims use since Apr. 15, 1928.

Ser. No. 269,538. JOHN WASKIEWICZ, doing business as Wakie Products Corporation, Bloomfield, N. J. Filed July 12, 1928.

SAWIEC

For Ointment for Wounds, Fresh and Old Sores, Abrasions, Cuts, Burns, Bites, Stings of Insects, Piles or Hemorrhoids, Ulcers, Eczema, Salt Rheum, Itch, Ringworm, Scald Head, and All Skin Diseases.
Claims use since June 17, 1928.

Ser. No. 269,549. PUBLICKER INCORPORATED, Philadelphia, Pa. Filed July 13, 1928.

Paco

For Ethyl Acetate, Butyl Acetate, Amyl Acetate, Nitrocellulose Solutions, and Methanol.
Claims use since May 1, 1928.

Ser. No. 269,607. HARVEY J. ROSOKOFF, doing business as Harvey's Drug Store, North Tonawanda, N. Y. Filed July 14, 1928.

95466

For Medicine for the Treatment of Lumbago, Articular, Muscular, Sciatic, Gouty Rheumatism, as Well as Rheumatic Pains.
Claims use since Sept. 1, 1917.

CLASS 10.

Fertilizers.

Ser. No. 268,970. CO-OPERATIVE GRANGE LEAGUE FEDERATION EXCHANGE, INC., Syracuse, N. Y. Filed July 2, 1928.

G.L.F.

For Fertilizers.
Claims use since July 1, 1922.

Ser. No. 269,149. RASIN-MONUMENTAL COMPANY OF ANNE ARUNDEL COUNTY, Baltimore, Md. Filed July 5, 1928.

RASIN-MONUMENTAL

For Fertilizers.
Claims use since January, 1899.

Ser. No. 269,150. RASIN-MONUMENTAL COMPANY OF ANNE ARUNDEL COUNTY, Baltimore, Md. Filed July 5, 1928.

EMPIRE

For Fertilizers.
Claims use since 1873.

CLASS 12.

Construction Materials.

Ser. No. 219,134. OVERHEAD DOOR CORPORATION, Hartford City, Ind. Filed Aug. 20, 1925.

OVER HEAD DOOR

No claim is made to the word "Door" apart from the mark as shown.
For Garage Doors.
Claims use since Nov. 7, 1921.

Ser. No. 263,427. SAFEPACK MILLS, Millis, Mass. Filed Mar. 19, 1928.



Applicant disclaims exclusive right to the figure and word "7 Ply" except in combination with the triangle frame as shown in the drawing. The lining represents red to conform to the specimen submitted, but applicant does not limit its trade-mark to any particular colors or combination of colors.
For Roofing and Building Paper.
Claims use since July, 1925.

Ser. No. 263,869. THE FLINTKOTE COMPANY, Boston, Mass. Filed Mar. 28, 1928.



Applicant disclaims the word "Protection" apart from the mark as shown in the drawing. No claim is made to the use of the words "Asphalt Products, Shingles, Roofings" apart from the mark as shown.
For Composition Roll Roofing, Composition Shingles and Strip Shingles, Waterproof Roofing and Building Paper.
Claims use since about Feb. 25, 1928.

Ser. No. 263,870. THE FLINTKOTE COMPANY, Boston, Mass. Filed Mar. 28, 1928.

FLINTKOTE
PROTECTION

Applicant disclaims the word "Protection" apart from the mark shown in the drawing.
For Composition Roll Roofing, Composition Shingles and Strip Shingles, Waterproof Roofing and Building Paper.
Claims use since about Feb. 25, 1928.

Ser. No. 264,727. THE LILLY TREE SURGEONS, INC., Rye, N. Y. Filed Apr. 12, 1928.



For Tree-Cavity Filler in the Nature of Cement.
Claims use since February, 1927.

Ser. No. 265,201. ELBERTON QUARRIES INC., Carlton, Ga. Filed Apr. 21, 1928.

DIXIE BLUE GRANITE

The words "Blue Granite" are disclaimed apart from the mark shown.
For Quarried Granite in Blocks.
Claims use since Oct. 6, 1927.

Ser. No. 266,858. THE FLINTKOTE COMPANY, Boston, Mass. Filed May 23, 1928.

REXLOX

For Composition Roofing Shingles.
Claims use since on or about Mar. 1, 1928.

Ser. No. 267,570. THE FLINTKOTE COMPANY, Boston, Mass. Filed June 6, 1928.

Colorglo

For Asphaltic Composition Roofing Shingles.
Claims use since on or about July 1, 1927.

Ser. No. 267,741. BATCHELDER-WILSON COMPANY, Los Angeles, Calif. Filed June 9, 1928.



For Clay Products—Namely, Tile.
Claims use since Jan. 16, 1928.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 258,838. SPEARHEAD BOILER PLUG INC., Cleveland, Ohio. Filed Dec. 12, 1927.



The word "Spearhead" and the representation of the goods and of a boiler are disclaimed apart from the mark. The representation of a display card is disclaimed per se. The drawing is lined for blue.
For Boiler Repair Plugs.
Claims use since Nov. 1, 1927.

Ser. No. 266,775. ALUMINUM GOODS MANUFACTURING CO., Manitowoc, Wis. Filed May 22, 1928.

Vitality

For Aluminum Ware—Namely, Baking Dishes, Boilers for Cooking Foods, Cake Pans, Coffee Percolators, Coffeepots, Colanders, Combination Cookers, Combination Poacher, Steamer, and Fry Pans, Combination Roasters, Convex Kettles, Convex Saucepans, Convex Sauce Pots, Cooking Kettles, Covers, Dish Pans, Dish Driers, Double Boilers, Fry Pans, Kettles, Layer-Cake Pans, Lipped Fry Pans, Lipped Preserving Kettles, Lipped Saucepans, Lipped-Saucepan Sets, Lipped-Stewpan Sets, Mixing Bowls, Mixing-Bowl Sets, Pans, Pie Plates, Pitchers, Preserving Kettles, Pudding Pans, Pudding-Pan Sets, Roasters, Saucepans, Sauce Pots, Skillets, Sink Strainers, Steamers, Stewpans, Strainers, Strainer Kettles, Strainer Pans, Tea Kettles, Tubed Cake Pans, Washbasins, Water Pitchers, and Windsor Kettles.

Claims use since Apr. 12, 1928.

Ser. No. 266,888. SÄURESCHUTZ-GESELLSCHAFT M. B. H., Berlin-Alt-Glienicke, Germany. Filed May 23, 1928.

Haveg

For Tubes, Pipes, Valves, Faucets, and Pipe Fittings, All Made of or Provided with Coatings and Linings Which are Chemically Resistant and Composed of Plastic Compositions.

Claims use since Nov. 30, 1922.

Ser. No. 268,379. ROBERT E. MILLER, New York, N. Y. Filed June 20, 1928.

PANCORAK

For Metal Wall Rack for Kitchen Utensils.
Claims use since Jan. 11, 1928.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 262,232. LINK-BELT COMPANY, Chicago, Ill. Filed Feb. 25, 1928.

>PROMAL<

For Heat-Treated Ferrous Metals.
Claims use since about May, 1927.

Ser. No. 264,358. JOSEPH B. COOPER, New York, N. Y. Filed Apr. 5, 1928.



No claim is made to the exclusive use of the word "Accuracy" apart from the mark shown in the drawing.
For Metals, Alloys, and Solders for Use in Jewelry.
Claims use since Apr. 20, 1916.

Ser. No. 266,283. TERNSTEDT MANUFACTURING COMPANY, Detroit, Mich. Filed May 11, 1928.



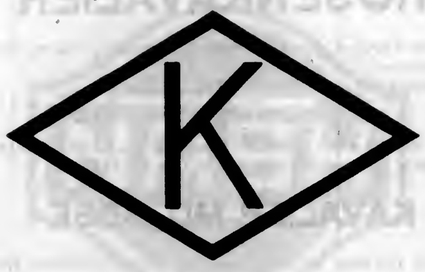
The drawing is lined for shading purposes only.
For Automobile Body Hardware—Namely, Channels and Shapes and Die Castings.
Claims use since Apr. 30, 1928.

Ser. No. 267,797. PUROX COMPANY, Denver, Colo. Filed June 9, 1928.

METAL MASTER

The word "Metal" is disclaimed apart from the mark shown on the drawing.
For Welding Rods.
Claims use since Dec. 23, 1927.

Ser. No. 269,122. H. KRAMER & COMPANY, Chicago, Ill. Filed July 5, 1928.



For Brass Ingots, Bronze Ingots, Pig Lead, Type Metals, Spelter, and Babbitts.
Claims use since on or about Nov. 15, 1918.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 252,993. YANKEE POLISH CO., INC., New York, N. Y. Filed Aug. 3, 1927.



For Polishes and Dressings for Cleaning and Polishing Painted and Varnished Surfaces of Automobiles, Floors, and Furniture.
Claims use since Jan. 2, 1915.

Ser. No. 266,751. RAYCO PAINT COMPANY, Detroit, Mich. Filed May 21, 1928.

RAYCO

For Paint Remover.
Claims use since about July 1, 1927.

Ser. No. 266,885. P. ROSER MANUFACTURING COMPANY, INC., Richmond, Va. Filed May 23, 1928.

ROSER'S
Universal
CLEANER and POLISHER

The words "Cleaner and Polisher" are disclaimed apart from the other features of the mark shown on the drawings.
For Automobile Polish for "Duco" and Lacquered Surfaces.
Claims use since May 1, 1928.

Ser. No. 267,176. EMMA B. OLD, doing business as Old's Manufacturing Company, Kansas City, Mo. Filed May 14, 1928.

OLD'S
HOMESHINE

For Piano, Furniture, Floor, and Automobile Polish.
Claims use since Oct. 1, 1926.

Ser. No. 267,399. UNITED CARBON COMPANY, Charleston, W. Va. Filed June 2, 1928.

DIXIE

For Carbon Black.
Claims use since December, 1918.

Ser. No. 267,541. DENVER COLOR WORKS, INC., Denver, Colo. Filed June 6, 1928.



For Dry Wall Finish Such as Water-Color Paint, Dry-Color Paint, or Kalsomine.
Claims use since May 4, 1928.

Ser. No. 268,490. DEVOE & RAYNOLDS CO., INC., New York, N. Y. Filed June 22, 1928.

DEVOE VOLAC

For Paste and Ready-Mixed Paints, Varnishes, and Lacquers.
Claims use since May 1, 1928.

CLASS 17.

Tobacco Products.

Ser. No. 265,631. GENERAL-DIREKTION DER ÖSTERR. TABAKREGIE, Vienna, Austria. Filed Apr. 30, 1928.

JAM

For Chewing, Smoking, Snuffing Tobaccos, Cigars, and Cigarettes.
Claims use since Dec. 14, 1918.

Ser. No. 266,975. COHEN, WEENEN & CO., LIMITED, London, England. Filed May 25, 1928.



Applicant claims ownership of registered Trade-Mark No. 193,978, dated Jan. 13, 1925. Exclusive use of all wording except applicant's name and the word "Afrikander" is disclaimed apart from the mark shown in drawing.
For Smoking Tobacco.
Claims use since Jan. 14, 1924.

Ser. No. 269,402. GENERAL-DIREKTION DER ÖSTERR. TABAKREGIE, Vienna, Austria. Filed July 11, 1928.

ROSENKAVALIER

For Chewing, Smoking, Snuffing Tobaccos, Cigars, and Cigarettes.
Claims use since May 26, 1928.

Ser. No. 269,403. GENERAL-DIREKTION DER ÖSTERR. TABAKREGIE, Vienna, Austria. Filed July 11, 1928.

KAVALIER MIT ROSE

For Chewing, Smoking, Snuffing Tobaccos, Cigars, and Cigarettes.
Claims use since May 26, 1928.

Ser. No. 269,404. GENERAL-DIREKTION DER ÖSTERR. TABAKREGIE, Vienna, Austria. Filed July 11, 1928.

KAVALIER-ROSEN

For Chewing, Smoking, Snuffing Tobaccos, Cigars, and Cigarettes.
Claims use since May 26, 1928.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 266,192. THE CUTHBELL COMPANY, INCORPORATED, Norfolk, Va. Filed May 10, 1928.

FOX

For Bicycles.
Claims use since Jan. 1, 1928.

Ser. No. 266,471. THE NASH MOTORS COMPANY, Kenosha, Wis. Filed May 16, 1928.



For Automobiles and Structural Parts Thereof.
Claims use since May 10, 1928.

Ser. No. 266,680. THE NASH MOTORS COMPANY, Kenosha, Wis. Filed May 19, 1928.



For Automobiles and Structural Parts Thereof.
Claims use since Apr. 2, 1917.

Ser. No. 266,718. DIVCO-DETROIT CORPORATION, Detroit, Mich. Filed May 21, 1928.

DIVCO

For Motor Trucks and Constructive Parts Thereof.
Claims use since approximately Oct. 21, 1926.

Ser. No. 268,373. HERCULES PRODUCTS, INC., Evansville, Ind. Filed June 20, 1928.



For Automobile Motor-Truck and Motor-Bus Bodies, Cabs, Seats, Panels, Platforms, End Gates, and Business Attachments.
Claims use since about Feb. 1, 1927.

Ser. No. 268,788. INDIANA TRUCK CORPORATION, Marion, Ind. Filed June 28, 1928.

TORSELIM

For Motor Trucks.
Claims use since June 11, 1928.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 265,792. HOME GAME COMPANY, INC., Mechanicville, N. Y. Filed May 2, 1928.

"BATTER UP"

For Table Ball Games Played with Miniature Balls and Bats.
Claims use since Mar. 8, 1927.

Ser. No. 266,596. KEN-WEL SPORTING GOODS CO., INC., New Hartford, N. Y. Filed May 18, 1928.

Ker-O-Line

For Baseballs, Boxing Gloves, Chest Protectors, and Masks.
Claims use since 1925.

Ser. No. 268,503. R. H. MACY & CO., INC., New York, N. Y. Filed June 22, 1928.

SUPRE-MACY

For Golf Clubs.
Claims use since Apr. 14, 1928.

Ser. No. 268,528. ATLANTIC-PACIFIC MFG. CORPN., Brooklyn, N. Y. Filed June 23, 1928.

ACME

For Life Preservers, Life-Preserver Cushions in the Shape of Cushions and Ring Buoys, Making Them Applicable for Life-Saving at Sea.
Claims use since January, 1903.

Ser. No. 269,325. THE SHIELD CO. INC., Fort Worth, Tex. Filed July 9, 1928.



DODO

For Golf Balls, Golf Clubs, and Golf Bags.
Claims use since October, 1927.

Ser. No. 269,540. WILSON-WESTERN SPORTING GOODS COMPANY, Chicago, Ill. Filed July 12, 1928.

Alex Smith

The trade-mark is a facsimile signature of Alex Smith. Permission granted.
For Golf Clubs.
Claims use since July 3, 1928.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 235,778. THE IMPERIAL TRUST FOR THE ENCOURAGEMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, London, England. Filed Aug. 10, 1926.

NP

For Metal-Working Taps, Surface Plates, and Leading Screws.
Claims use since Jan. 26, 1907.

Ser. No. 252,382. GREAT LAKES DREDGE & DOCK COMPANY, Chicago, Ill. Filed July 21, 1927.

GREAT LAKES DREDGE & DOCK RIVER & HARBOR IMPROVEMENTS

The vertical shade lines on the drawing indicate the color red. No claim is made to the words "River & Harbor Improvements" apart from the mark shown in the drawing.
For Pile Drivers, Locomotive Cranes, Crawler Cranes, Concrete Mixers, Shovels, Conveyor Cableways, Tractor Cranes, Diving Outfits Except the Suits, Hose Lines and Cable Lines Thereof, Locomotives, Dipper Dredges, Hydraulic Dredges, and Clamshell Dredges, All Employed in River and Harbor Improvements.
Claims use since Mar. 9, 1925.

Ser. No. 258,499. W. A. RIDDELL COMPANY, Bucyrus, Ohio. Filed Dec. 5, 1927.

WARCO

For Wheel Scoops, Graders, Scarifiers, Road Rollers, Caterpillar Tractors, Bull-Wheel Tractors; Brick, Tile, and Clay Block Machines; Clay Conveyors, Clay Rollers, Clay Grinders, Extruding Devices, Clay Dies and Cutters, and Pugging Machines.
Claims use since July, 1927.

Ser. No. 267,093. TIFFANY & COMPANY, New York, N. Y. Filed May 26, 1928.

T&C

For Table Cutlery of Base Metal, Pocketknives, Scissors, Razors, Dies for Engraving, Stamping, or Embossing Stationery.
Claims use since March, 1900.

Ser. No. 267,196. HERCULES PRODUCTS COMPANY, St. Joseph, Mich. Filed May 29, 1928.

ATLAS

For Automobile Rim Tools.
Claims use since Nov. 4, 1926.

Ser. No. 267,197. HERCULES PRODUCTS COMPANY, St. Joseph, Mich. Filed May 29, 1928.

Universal

For Automobile Rim Tools.
Claims use since Jan. 23, 1928.

Ser. No. 268,504. R. H. MACY & CO., INC., New York, N. Y. Filed June 22, 1928.

MACY'S HOME CENTER

For Dishwashing Appliance Adapted for Operation by Attachment to a Faucet.
Claims use since Sept. 30, 1927.

Ser. No. 268,604. THE HEALD MACHINE COMPANY, Worcester, Mass. Filed June 25, 1928.

GAGE-MATIC

For Precision Grinding Machines Used for the Production of Metal Articles.
Claims use since June 9, 1928.

Ser. No. 268,841. THE BILLINGS & SPENCER COMPANY, Hartford, Conn. Filed June 29, 1928.

LIFE-TIME

For Hand Tools—Namely, Wrenches, Chisels, Screw Drivers, Pliers, and Hammers.
Claims use since Apr. 1, 1926.

Ser. No. 269,019. W. T. GRANT COMPANY, doing business as Solar Mfg. Co., Lynn, Mass., and New York, N. Y. Filed July 3, 1928.

SOLAR

For Hand Drills, Bench Grinders, Bench Vises, and Ratchet Bit Braces.
Claims use since April, 1926.

CLASS 24.

Laundry Appliances and Machines.

Ser. No. 268,214. CONCEALO FIXTURE COMPANY, Oakland, Calif. Filed June 18, 1928.

Concealo

For Ironing Boards and Clothes-Dryer Cabinets and Clothes-Dryer Racks.
Claims use since on or about Jan. 1, 1926.

CLASS 25.

Locks and Safes.

Ser. No. 268,463. PRATT-RYMER CO., San Leandro, Calif. Filed June 21, 1928.

RY-LOCK

The word "Lock" is disclaimed apart from the mark as shown.
For Locks.
Claims use since May 17, 1928.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 241,226. HEDMAN MANUFACTURING COMPANY, Chicago, Ill. Filed Dec. 9, 1926.

Lightning

Applicant sets up claim to Certificate No. 107,309, registered Nov. 23, 1915.
For Change-Making Machines.
Claims use since May 1, 1915.

Ser. No. 241,227. HERMAN MANUFACTURING COMPANY, Chicago, Ill. Filed Dec. 9, 1926.

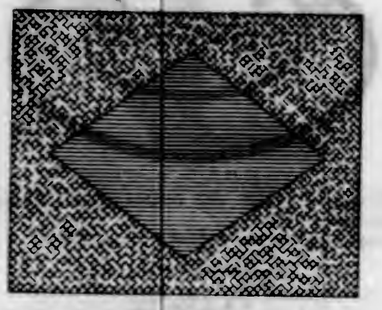


Applicant claims ownership of Certificate No. 107,309, registered Nov. 23, 1915. The mark consists in a representation of a flash of lightning.

For Change-Making Machines.

Claims use since May 1, 1915.

Ser. No. 266,195. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main and Berlin, Germany. Filed May 10, 1928.



As indicated by the lines in the drawing the diamond is colored blue, while the field about the same within the rectangle is of orange color.

For Photographic Sensitized Plates, Photographic Sensitized Films, Photographic Sensitized Papers, Cameras and Parts Therefor, and Objectives.

Claims use since Feb. 19, 1927.

Ser. No. 267,092. TIFFANY & COMPANY, New York, N. Y. Filed May 26, 1928.



For Flexible Steel Measuring Tapes, Aeronautical and Marine Compasses, Field and Marine Glasses, Thermometers, and Barometers.

Claims use since 1900.

Ser. No. 267,267. MRS. EDOUARD MIVILLE, née EMERENTIENNE SMITH, Victoriaville, Canada. Filed May 31, 1928.

HIRONDELLE

For Garment Patterns.

Claims use since about Feb. 29, 1928.

Ser. No. 268,496. THOMAS W. HICKS, doing business as The "Fish-An'-See" Co., South Minneapolis, Minn. Filed June 22, 1928.

FISH-AN'-SEE

For Underwater Periscopes.

Claims use since Apr. 2, 1928.

Ser. No. 268,588. CONTINENTAL OPTICAL CORPORATION, Indianapolis, Ind. Filed June 25, 1928.

INVAR

For Ophthalmic Lenses.

Claims use since May 22, 1928.

CLASS 27.

Horological Instruments.

Ser. No. 268,419. BULOVA WATCH COMPANY, INC., New York, N. Y. Filed June 21, 1928.

Lady Lindy

For Watches and Watch Movements.

Claims use since June 1, 1928.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 267,028. LE ROY ASKAM, Milford, Conn. Filed May 26, 1928.



The drawing is lined to indicate shading. No claim is made to the exclusive use of the word "Clearer" and representation of a windshield apart from the mark as shown.

For Electrically-Operated Windshield Cleaners.

Claims use since Apr. 15, 1928.

Ser. No. 267,095. TIFFANY & COMPANY, New York, N. Y. Filed May 26, 1928.



For Clothes Brushes, Hairbrushes, Powder Puffs, Nail Brushes, and Whisk Brooms.

Claims use since Apr. 9, 1900.

Ser. No. 268,396. GEORGE W. SIMMONS CORPORATION, New York, N. Y. Filed June 20, 1928.

PLEE-ZING

For Brooms.

Claims use since February, 1925.

CLASS 31.

Filters and Refrigerators.

Ser. No. 265,895. ELECTROLUX SERVEL CORPORATION, New York, N. Y. Filed May 4, 1928.

ELECTROLUX

For Refrigerators, Refrigerator Parts, Automatic Refrigerators, Automatic Refrigerating Parts, and Refrigerating Systems.

Claims use since about May, 1925.

CLASS 32.

Furniture and Upholstery.

Ser. No. 267,848. MAX MARWELL, Brooklyn, N. Y. Filed June 11, 1928.

MORISCOT

For Day Beds and Cots.

Claims use since March, 1928.

Ser. No. 269,144. PI BETA PHI SETTLEMENT SCHOOL OF THE PI BETA PHI FRATERNITY, Gatlinburg, Tenn. Filed July 5, 1928.

ARROWCRAFT

For Wooden Furniture—Namely, Chairs, Stools, Tables, Taborets, Wall Shelves, and Flower Stands.

Claims use since on or about July 11, 1927.

Ser. No. 269,331. SUPERIOR FELT & BEDDING CO., Chicago, Ill. Filed July 9, 1928.

SUNLITE

For Mattresses.

Claims use since Oct. 15, 1927.

CLASS 33.

Glassware.

Ser. No. 267,096. TIFFANY & COMPANY, New York, N. Y. Filed May 26, 1928.



For Table Glassware.

Claims use since 1900.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 258,128. IRON FIREMAN MANUFACTURING COMPANY, Portland, Oreg. Filed Nov. 28, 1927.

IRON FIREMAN

For Automatic Coal Burners.
Claims use since July, 1923.

Ser. No. 267,385. PHILLIPS & BUTTORFF MFG. CO., Nashville, Tenn. Filed June 2, 1928.

DUO-GLO

For Coal or Wood Burning Household Heater.
Claims use since May 10, 1928.

Ser. No. 267,798. PUROX COMPANY, Denver, Colo. Filed June 9, 1928.

METAL MASTER

The word "Metal" is disclaimed apart from the mark shown on the drawing.
For Welding and Cutting Gas Torches.
Claims use since Dec. 23, 1927.

Ser. No. 268,127. WATERBURY BUTTON COMPANY, Waterbury, Conn. Filed June 15, 1928.

Chesterfield

For Pocket Friction and Pyrophoric Lighters for Igniting Cigars, Cigarettes, and Pipes.
Claims use since Dec. 5, 1927.

Ser. No. 268,261. ABENDROTH BROTHERS, Port Chester, N. Y. Filed June 19, 1928. Under section 5b of the act of 1905 as amended in 1920.

YORK

For Oil, Gas, Coal, and Coke Fuel Heaters for Hot-Water Supply and House-Heating Boilers for Steam or Hot Water.
Claims use since on or about Jan. 1, 1911.

CLASS 35.

Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 267,796. PUROX COMPANY, Denver, Colo. Filed June 9, 1928.

METAL MASTER

The word "Metal" is disclaimed apart from the mark shown on the drawing.
For Rubber Hose for Use with Welding and Cutting Equipment.
Claims use since Dec. 23, 1927.

Ser. No. 269,273. ATLANTA BELTING COMPANY, Atlanta, Ga. Filed July 9, 1928.

SEAPLANE

For Leather Belting.
Claims use since July 16, 1923.

Ser. No. 269,376. UNITED STATES PRODUCTS CORPORATION, Birmingham, Ala. Filed July 10, 1928.

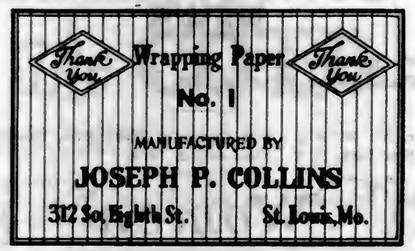


For Rubber and Asbestos Mechanical Packings and Belts Made of Leather, Rubber, and Compositions.
Claims use since June 1, 1928.

CLASS 37.

Paper and Stationery.

Ser. No. 255,896. JOSEPH P. COLLINS, St. Louis, Mo. Filed Oct. 11, 1927.



The words "Wrapping Paper No. 1 Manufactured by Joseph P. Collins 312 So. Eighth St., St. Louis, Mo." as shown on the mark are disclaimed.
For Wrapping-Paper Sheets and Rolls.
Claims use since Feb. 20, 1924.

Ser. No. 256,309. THE ROCHESTER FOLDING BOX CO., Rochester, N. Y. Filed Oct. 19, 1927.

Fiberdown PRODUCTS

The word "Products" is disclaimed apart from the mark shown.
For Soft Protective Wrapping and Packing Paper, Soft Lining Paper, Absorbent Wrapping Paper, Antitarnish Wrapping Paper, and Paper for Cushions and Pads.
Claims use since June 20, 1927.

Ser. No. 261,049. NAPOLEON DEREMONT, New York, N. Y. Filed Feb. 2, 1928.

Negorubber

For Photographic-Negative-Retouching Tool.
Claims use since Sept. 5, 1926.

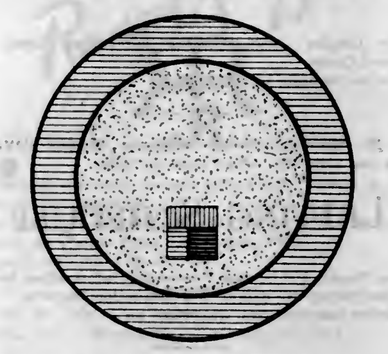
Ser. No. 266,297. L. L. BROWN PAPER COMPANY, Adams, Mass. Filed May 12, 1928.

RESISTALL

For Ledger Paper, Bond Paper, Writing Paper, Map Paper, and Bristol Board.
Claims use since Apr. 19, 1928.

Ser. No. 266,843. THE TILE & MANTEL CONTRACTORS' ASSOCIATION OF AMERICA, Wilmington, Del. Filed May 22, 1928.

"GUILD SET" TILES



The drawing is lined to indicate shading.
For Letterheads.
Claims use since June 15, 1927.

Ser. No. 268,076. ARTHUR N. BUSHNELL, Jr., Philadelphia, Pa., assignor to Alvah Bushnell Company, Philadelphia, Pa., a Corporation of New Jersey. Filed June 15, 1928.

INFORMALOG

For File Pockets or Containers for Papers.
Claims use since on or about Apr. 26, 1926.

CLASS 38.

Prints and Publications.

Ser. No. 261,207. POPULAR DOGS PUBLISHING COMPANY, INC., Philadelphia, Pa. Filed Feb. 4, 1928.



For Illustrated Weekly Magazines and Other Periodical Publications—Namely, Books or Pamphlets and Premium Lists.
Claims use since Jan. 6, 1928.

Ser. No. 263,753. THE DEAN-HICKS COMPANY, Grand Rapids, Mich. Filed Mar. 26, 1928.

GOOD FURNITURE MAGAZINE

For Magazine Published Monthly.
Claims use since August, 1925.

Ser. No. 267,999. SCHMIDT LITHOGRAPH COMPANY, San Francisco, Calif. Filed June 13, 1928.

COLOTONE

For Display Cards, Printed Advertising Signs, and Counter Cards.
Claims use since Dec. 1, 1927.

Ser. No. 268,086. DEWEY PORTLAND CEMENT COMPANY, Kansas City, Mo. Filed June 15, 1928.

LETTING SCHEDULE

For Weekly Publication Containing Information for Use by Contractors for Supposed Construction Projects.
Claims use since Jan. 27, 1928.

Ser. No. 268,227. HORWATH & HORWATH, New York, N. Y. Filed June 18, 1928.

THE ALARM CLOCK

For Monthly Bulletin.
Claims use since May 1, 1921.

Ser. No. 268,302. NATIONAL RADIO INSTITUTE, Washington, D. C. Filed June 19, 1928.

Radio-Trician

For Textbooks, Printed Radio Instruction Courses, Radio Work Sheets, Radio Service Sheets, and Radio Job Sheets.
Claims use since June 1, 1922.

Ser. No. 268,611. IMPROVEMENT ASSOCIATION, Chicago, Ill. Filed June 25, 1928.

IMPROVEMENT

For Magazine Published Monthly.
Claims use since Feb. 1, 1926.

Ser. No. 268,758. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y. Filed June 27, 1928.

Western Electric News

For Title of a Monthly Publication.
Claims use since March, 1912.

Ser. No. 268,860. FELT & TARRANT MANUFACTURING COMPANY, Chicago, Ill. Filed June 29, 1928.

COMPTOMETER NEWS

For Periodical.
Claims use since Dec. 14, 1926.

Ser. No. 268,972. THE CROWELL PUBLISHING COMPANY, New York, N. Y. Filed July 2, 1928.

Women

For Monthly Magazine.
Claims use since June 1, 1928.

Ser. No. 269,077. ATLAS PUBLISHING CO., INC., New York, N. Y. Filed July 5, 1928.

SALVAGE

For Magazine.
Claims use since on or about Apr. 19, 1928.

Ser. No. 269,159. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed July 5, 1928.

Salesmotor

For Periodical Publications.
Claims use since January, 1920.

Ser. No. 269,183. CLEVELAND GARMENT MANUFACTURERS ASSOCIATION, Cleveland, Ohio. Filed July 6, 1928.

The GARMENT SALESWOMAN

For Monthly Magazine.
Claims use since April, 1924.

Ser. No. 269,267. STOCK MARKET REPORTER, INC., New York, N. Y. Filed July 7, 1928.

"Stock Market Reporter"

For Weekly Stock-Market Review.
Claims use since about May 1, 1928.

CLASS 39.

Clothing.

Ser. No. 204,846. EUGENE N. TRABILCY, doing business as Mutual Knitting Mills, New York, N. Y. Filed Nov. 4, 1924.

The COED

For Knitted Neckties.
Claims use since July 3, 1924.

Ser. No. 248,933. SALLY FROCKS, INC., Chicago, Ill. Filed May 12, 1927.



Applicant owns registration No. 186,446. The lining on the drawing indicates the colors purple and green.
For Ladies' and Girls' Frocks and Dresses.
Claims use since Apr. 24, 1926.

Ser. No. 249,368. THE NAVYTONE COMPANY, Philadelphia, Pa. Filed May 21, 1927.



The drawing is lined for orange.
For Men's Suits.
Claims use since Jan. 1, 1927.

Ser. No. 252,771. THE GOODMAN CLOAK COMPANY, Cleveland, Ohio. Filed July 30, 1927.



Applicant disclaims the right to the use of the words "Coat and Goodman."
For Women's Wearing Apparel—Namely, Coats, Suits, Dresses.
Claims use since Jan. 15, 1926.

Ser. No. 258,971. ROSCOE F. WARREN, Los Angeles, Calif. Filed Dec. 15, 1927.

Ranger Riley Jr

Applicant disclaims the word "Riley Jr." except as used in the mark illustrated.
For Children's Cowboy Play Suits, Including Such Accessories as Chaps, Vests, Cuffs, and Shirts.
Claims use since Nov. 3, 1927.

Ser. No. 260,129. THE NATIONAL COMMITTEE ON CORRECT STYLE, INC., Chicago, Ill. Filed Jan. 14, 1928.



No registration rights are claimed for the words "Approved by" apart from the mark as shown in the drawing.
For Hat Linings Unattached to Hats.
Claims use since Dec. 31, 1927.

Ser. No. 261,678. THE MENIHAN COMPANY, Rochester, N. Y. Filed Feb. 14, 1928.

MODERN STYL-ARCH

The words "Modern Styl-arch" are disclaimed apart from the mark shown.
For Leather or Cloth Top Shoes and Pumps.
Claims use since Jan. 6, 1928.

Ser. No. 261,850. ISIDOR WEINSTEIN-COATS INC., New York, N. Y. Filed Feb. 17, 1928.

Sandbrooke

The lining appearing on the drawing represents shading
For Women's and Misses' Coats.
Claims use since about June 1, 1927.

Ser. No. 262,148. BERKSHIRE KNITTING MILLS, Reading, Pa. Filed Feb. 24, 1928.

BERTEX

For Hosiery.
Claims use since Jan. 25, 1928.

Ser. No. 262,871. PI BETA PHI SETTLEMENT SCHOOL OF THE PI BETA PHI FRATERNITY, Gatlinburg, Tenn. Filed Mar. 9, 1928.

ARROWCRAFT

For Scarfs and Shawls for Personal Wear.
Claims use since on or about July 11, 1927.

Ser. No. 263,562. JOHN E. ROSS CO. INC., New York, N. Y. Filed Mar. 21, 1928.

ROSEMAYD

For Suspenders, Belts in the Nature of Garment Supporters or for Outer Wear, and Stocking Supporters.
Claims use since Mar. 9, 1928.

Ser. No. 263,611. S. LIEBOVITZ & SONS, INC., New York, N. Y. Filed Mar. 22, 1928.

AVI-COAT

No rights are asserted to the exclusive use of the word "Coat" apart from the mark shown in the drawing.
For Men's, Women's, Youths', and Boys' Sport Jackets and Coats and Weatherproof Jackets and Coats.
Claims use since Feb. 28, 1928.

Ser. No. 263,612. S. LIEBOVITZ & SONS, INC., New York, N. Y. Filed Mar. 22, 1928.

AVI-JACK

For Men's, Women's, Youths', and Boys' Sport Jackets and Coats and Weatherproof Jackets and Coats.
Claims use since Feb. 28, 1928.

Ser. No. 263,748. BRYCE & WESTON LIMITED, London, England. Filed Mar. 26, 1928.



The picture of the man is fanciful.
For Collars for Wear.
Claims use since Sept. 8, 1921.

Ser. No. 263,872. HOOD RUBBER COMPANY, Watertown, Mass. Filed Mar. 28, 1928.

RAINTOG

For Rubber Boots and Shoes, Rubber Overshoes, Rubber-Soled Canvas Shoes.
Claims use since Mar. 8, 1928.

Ser. No. 263,954. G. R. KINNEY CO., INC., New York, N. Y., assignor to The Educator Shoe Corporation of America, New York, N. Y., a Corporation of Delaware. Filed Mar. 29, 1928.



The word "Shoe" and the expression "Lets the Child's Foot Grow as It Should" are disclaimed apart from the mark shown.
For Leather Boots and Shoes.
Claims use since July 1, 1901.

Ser. No. 264,583. HOWARD W. HILL CO., Beverly, Mass. Filed Apr. 9, 1928.

Beverly Hills
—VANITIES—

For Ladies' Shoes Made of Leather.
Claims use since Feb. 13, 1928.

Ser. No. 264,900. NEW YORK HAT STORES, INC., Los Angeles, Calif. Filed Apr. 16, 1928.

SUN
—RESISTING—
STRAWS

No exclusive right is claimed to the use of the words "Sun Resisting Straws" except in the particular association and arrangement in which such words appear in connection with the rest of the trade-mark shown in drawing.
For Hats for Men and Boys.
Claims use since Apr. 1, 1928.

Ser. No. 265,313. F. BERG & COMPANY, Norwalk, Conn. Filed Apr. 24, 1928.



The words "By Berg Fifth Avenue" apart from the mark are herewith disclaimed.
For Men's Felt Hats.
Claims use since October, 1927.

Ser. No. 265,582. STERN BROTHERS, New York, N. Y. Filed Apr. 28, 1928.

STERNCREST

For Men's Suits, Men's Overcoats, Men's Hats, Men's Pajamas, Men's Textile-Fabric Underwear Made of Wool and of Cotton; Men's Hose Made of Silk, Wool, and of Cotton; and Men's Dress and Negligee Shirts Made of Silk, Linen, and of Cotton.
Claims use since June 16, 1927.

Ser. No. 265,830. THE C. B. CONES & SON MANUFACTURING COMPANY, Indianapolis, Ind. Filed May 3, 1928.

ROYAL BLUE

The word "Blue" is disclaimed apart from the mark shown in the drawing.
For Laundered Colored Shirts, Overalls, Work Coats, and Work Shirts.
Claims use since spring of 1900.

Ser. No. 265,921. NORWAY SHOE COMPANY, Norway, Me. Filed May 4, 1928.



For Shoes of Leather, Rubber, Fabric, and Combinations Thereof.
Claims use since Feb. 29, 1928.

Ser. No. 265,964. HERO CLOTHING MFG. CO., INC., Philadelphia, Pa. Filed May 5, 1928.



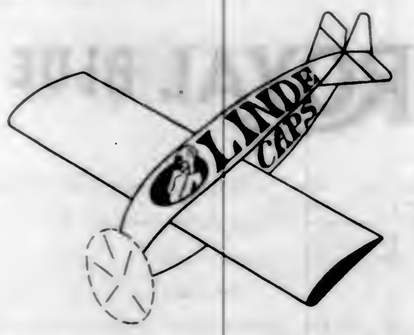
For Men's and Boys' Overcoats and Suits Comprising Coats, Vests, and Trousers.
Claims use since Feb. 7, 1928.

Ser. No. 265,990. SHOECRAFT SHOP INC., New York, N. Y. Filed May 5, 1928.

SHOECRAFT

Applicant owns registration Nos. 121,832 and 137,451.
For Stockings, Rubber Overshoes, Gaiters, Heel Cushions, Heel Pads, Shoes, Sandals, and Boots of Leather and Fabric and Combinations of These Materials.
Claims use since 1913.

Ser. No. 266,150. MAX SHENKER, Brooklyn, N. Y. Filed May 9, 1928.



No claim is made to the word "Caps" apart from the mark shown.
For Knitted Caps for Men, Women, and Children.
Claims use since Mar. 1, 1928.

Ser. No. 266,331. STAHL-URBAN & COMPANY, Terre Haute, Ind. Filed May 12, 1928.

DOUBLE DECK

For Work Shirts.
Claims use since October, 1926.

Ser. No. 266,332. STAHL-URBAN & COMPANY, Terre Haute, Ind. Filed May 12, 1928.

STUR-DEE

For Work Shirts.
Claims use since October, 1926.

Ser. No. 266,549. METER BROTHERS, Paterson, N. J. Filed May 17, 1928.

Tom Bee
ARCH-BEAUTY

No claim is made to "Arch-Beauty" apart from the mark shown.
For Women's High and Low Shoes Constructed of Leather.
Claims use since Jan. 1, 1927.

Ser. No. 266,584. DERMOND'S, Los Angeles, Calif. Filed May 18, 1928.

VELVASHEEN

For Negligee and Dress Broadcloth Shirts.
Claims use since Feb. 25, 1928.

Ser. No. 266,756. ALEXANDER RUBIN, San Francisco, Calif. Filed May 21, 1928.

Miss California
AR ©

For Ladies' and Misses' Hats.
Claims use since Mar. 1, 1928.

Ser. No. 266,757. ALEXANDER RUBIN, San Francisco, Calif. Filed May 21, 1928.

Sunland

For Ladies' and Misses' Hats.
Claims use since Nov. 15, 1927.

Ser. No. 267,617. THE TUXEDO HAT BODY CORPORATION, New York, N. Y. Filed June 6, 1928.

TUX-SOLEIL

For Ladies' Felt Hat Bodies.
Claims use since May 1, 1928.

Ser. No. 267,629. BRONSTON BROS. AND CO., INC., New York, N. Y. Filed June 7, 1928.

SHOWERIZED

For Men's, Women's, and Children's Straw and Panama Hats.
Claims use since May 15, 1928.

Ser. No. 267,630. BRONSTON BROS. AND CO., INC., New York, N. Y. Filed June 7, 1928.

WEATHERIZED

For Men's, Women's, and Children's Straw, Panama, and Felt Hats.
Claims use since May 1, 1928.

Ser. No. 267,654. HARRY MARKS CLOTHING COMPANY, INC., Richmond, Va. Filed June 7, 1928.

R C
Rockingham
CLOTHES

The term "Rockingham" and the word "Clothes" are disclaimed apart from the features of the mark shown in the drawing.
For Men's and Boys' Coats, Vests, Pants, Topcoats, and Overcoats of Both Woolen and Cotton Cloth.
Claims use since Mar. 15, 1928.

Ser. No. 267,704. THE FLORSHEIM SHOE COMPANY, Chicago, Ill. Filed June 8, 1928.

PED-PLI PROCESS

No claim is made to the exclusive use of the word "Process" apart from the mark shown in the drawing.
For Shoes Made of Leather.
Claims use since May 31, 1928.

Ser. No. 267,723. RELIANCE MANUFACTURING COMPANY, Chicago, Ill. Filed June 8, 1928.



Applicant disclaims any exclusive right in the words "Work, Shirt, Triple, Stitched, Size, and Jumbo" per se.
For Men's and Boys' Work Shirts.
Claims use since October, 1926.

Ser. No. 267,746. C. & M. HOSIERY MILLS, INC., Oxford, N. C. Filed June 9, 1928.

International

For Men's, Women's, and Children's Hosiery, and Woven and Knitted Underwear.
Claims use since Apr. 30, 1928.

Ser. No. 267,779. MARTINS, INC., Brooklyn, N. Y. Filed June 9, 1928.

MAR CRAFT

For Men's and Boys' Clothing—Namely, Suits, Overcoats, Topcoats, Trousers, and Vests; and Men's and Boys' Furnishings—Namely, Dress, Negligee, and Work Shirts, Collars, Ties, Underwear of Knitted and Textile Fabrics, Pajamas, Bath Robes, and Socks.
Claims use since Oct. 1, 1927.

Ser. No. 267,786. NULIFE PATENTS CORPORATION, New York, N. Y. Filed June 9, 1928.

NAUTIES

For Corsets, Brassières, Combined Brassières and Corsets, Chemises, Step-Ins, Garters, and Stockings.
Claims use since about May 1, 1928.

Ser. No. 267,790. PENDLETON WOOLEN MILLS, Portland, Oreg. Filed June 9, 1928.

Wahkeena

For Clothing—Namely, Sweaters and Coats for Men, Women, and Children, Hosiery, Bath Robes, and Woolen Dresses for Women and Children.
Claims use since Feb. 1, 1928.

Ser. No. 267,827. AULT-WILLIAMSON SHOE CO., Auburn, Me. Filed June 11, 1928.

MARY·LOU.
COMFORT SHOE

Applicant disclaims any right to the exclusive use of the words "Shoe" and "Comfort" except in the precise relation and association in which the same appears herein.
For Men's, Women's, and Children's Shoes Composed Wholly or in Part of Leather.
Claims use since May 28, 1928.

Ser. No. 267,965. JONAS MILLINERY, INC., New York, N. Y. Filed June 13, 1928.



No claim is made to the exclusive use of the word "Jonas" apart from the mark shown on the drawing. The portrait shown is merely fanciful.
For Ladies' Hats.
Claims use since about January, 1921.

Ser. No. 268,156. HILL BROS. CO., Hudson, Mass. Filed June 16, 1928.



The right to the exclusive use of the representation of the shoe sole per se is disclaimed. The oblique stripe in the drawing is black.
For Leather Shoes.
Claims use since Jan. 11, 1928.

Ser. No. 268,431. ELDER MFG. CO., St. Louis, Mo. Filed June 21, 1928.

Barrymede

For Men's and Boys' Dress and Negligee Shirts and Boys' Blouses.
Claims use since Feb. 1, 1928.

Ser. No. 268,704. RICHMOND HOSIERY MILLS, Rossville, Ga. Filed June 26, 1928.

STATE SEAL

For Hosiery.
Claims use since Dec. 11, 1925.

Ser. No. 268,744. THE MUNSINGWEAR CORPORATION, Minneapolis, Minn. Filed June 27, 1928.

Sylphline

For Hosiery.
Claims use since May 31, 1928.

Ser. No. 268,751. ROYAL BEAUTY SILK HOSIERY CO., New York, N. Y. Filed June 27, 1928.

Royal Beauty

For Knitted and Flat Underwear and Hosiery for Ladies, Misses, and Children.
Claims use since June 1, 1928.

CLASS 40.

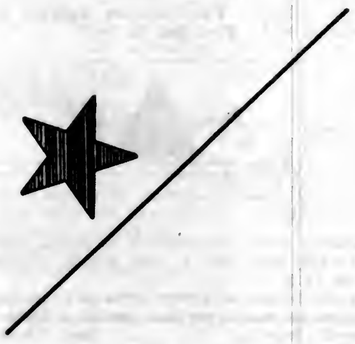
Fancy Goods, Furnishings, and Notions.

Ser. No. 254,023. A. B. A. SPECIALTIES COMPANY, INC., New York, N. Y. Filed Aug. 27, 1927.

Jiffy-Join

For Separable Garment Fasteners Together with Draw Strings for Undergarments, and Shoulder Straps, Each with a Separable Garment Fastener.
Claims use since November, 1926.

Ser. No. 257,704. RED STAR MFG. CO. INC., San Juan, P. R., and New York, N. Y. Filed Nov. 17, 1927.



The star in the drawing is lined to represent the color red. The feature of the trade-mark is the star colored red.
For Pearl Buttons.
Claims use since May, 1926.

Ser. No. 264,229. J. GOLDWASSER, New York, N. Y. Filed Apr. 3, 1928.

GOLD BRAND

The word "Brand" is disclaimed apart from the mark shown.
For Fur Trimmings in the Form of Collars, Cuffs, and Strips Adapted to be Attached to Garments.
Claims use since Feb. 14, 1928.

CLASS 41.

Canes, Parasols, and Umbrellas.

Ser. No. 257,689. I. MILLER & SONS, INC., Long Island City, N. Y. Filed Nov. 17, 1927.

I.MILLER

Applicant is the owner of registration No. 179,272, effected under the 10-year proviso.
For Canes, Parasols, and Umbrellas.
Claims use since June 20, 1927.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 252,637. ATEHA ADLER TEXTILDRUCKGESELLSCHAFT, HAMBURG M. B. H., Hamburg, Germany. Filed July 28, 1927.

ATEHA

For Cotton Table Covers and Cotton Counterpanes.
Claims use since Nov. 16, 1926.

Ser. No. 263,588. COUDURIER, FRUCTUS & DESCHER, Lyon, France. Filed Mar. 22, 1928.

MAHRADJOR

For Silk Piece Goods, Plain or Fancy or Brocaded.
Claims use since Jan. 25, 1927.

Ser. No. 268,562. ROBINSON & GOLLUBER, New York, N. Y. Filed June 23, 1928.

GOLDEN DAWN

For Cotton Piece Goods.
Claims use since Mar. 14, 1928.

Ser. No. 269,157. SOUTHERN MANUFACTURING COMPANY, Athens, Ga. Filed July 5, 1928.



The lining in the drawing is for the color red.
For Cotton Cloth Piece Goods.
Claims use since 1921.

Ser. No. 269,219. BERTH ROBERT-GROSS INC., New York, N. Y. Filed July 7, 1928.

Vogrite

For Silk Piece Goods.
Claims use since June 14, 1928.

Ser. No. 269,220. BERTH ROBERT-GROSS INC., New York, N. Y. Filed July 7, 1928.

Donwoodie

For Wool Fabrics.
Claims use since June 14, 1928.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 266,361. DETROIT DENTAL MANUFACTURING CO., Detroit, Mich. Filed May 14, 1928.

VULKERRITE

For Dental Modeling Compounds.
Claims use since about May 4, 1928.

Ser. No. 268,474. VELDOWN COMPANY, INC., New York, N. Y. Filed June 21, 1928.



Swanfleece

The representation shown in the drawing is fanciful.
For Catamenial Napkins.
Claims use since January, 1928.

Ser. No. 268,479. BERKELEY COMPANY, Chicago, Ill. Filed June 22, 1928.

CELLU-PAD

No claim is made to the exclusive use of the word "Pad" apart from the mark shown in the drawing.
For Sanitary Napkins.
Claims use since June 5, 1928.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 211,638. VIRGINIA DARE EXTRACT CO., INC., Brooklyn, N. Y. Filed Mar. 25, 1925.

VIRGINIA DARE

Applicant claims ownership of registered Trade-Marks No. 124,841, dated Mar. 8, 1919, and No. 125,430, dated May 20, 1919.
For Soft Drinks and Syrups, Extracts, Concentrates, and Emulsions for Making the Same, Including Ginger Ale and Ginger-Ale Extracts.
Claims use since Sept. 1, 1923.

Ser. No. 266,675. ANNIE G. LYLE, San Francisco, Calif. Filed May 19, 1928.

TINGLE-ALE

The word "Ale" is disclaimed apart from the trade-mark.
For Nonalcoholic Beverages, Such as Ginger and Like Ales, Carbonated Sodas, and Unfermented Fruit Juices.
Claims use since Mar. 1, 1928.

Ser. No. 268,395. GEORGE W. SIMMONS CORPORATION, New York, N. Y. Filed June 20, 1928.

PLEE-ZING

For Ginger Ale.
Claims use since February, 1925.

Ser. No. 269,099. P. DE LA MONTANYA, doing business as Mount Rouge Company, San Francisco, Calif. Filed July 5, 1928.

MOUNT ROUGE

For Nonalcoholic Maltless Beverages.
Claims use since June 1, 1928.

Ser. No. 269,362. NORTHWESTERN EXTRACT CO., Milwaukee, Wis. Filed July 10, 1928.

All Star

For Nonnicoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups, Extracts, and Concentrates for Making the Same.
Claims use since Feb. 15, 1920.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 229,641. AUGUST OHLENDORF, Jersey City, N. J. Filed Apr. 3, 1926.

TRADE MARK

No claim is made to the exclusive use of the word "Trade Mark" apart from the mark shown. The lining on the drawing indicates shading only.
For Canned Bologna.
Claims use since January, 1924.

Ser. No. 239,516. HALLOCK-DENTON CO., Newark, N. J. Filed Nov. 1, 1926.

TIP-TOP

For Vanilla Extract for Flavoring Foods.
Claims use since Oct. 3, 1923.

Ser. No. 244,349. BERTRAM G. EARL, doing business as B. G. Earl & Company, Chicago, Ill. Filed Feb. 14, 1927.

AROMA

For Sweetened Skim-Milk Cocoa.
Claims use since May 1, 1919.

Ser. No. 249,824. TRAIN'S POULTRY FARM HATCHERY, INC., Englewood Station, Mo. Filed May 31, 1927.

GOLD BOND

For Live Baby Chicks, Ducks, Turkeys, and Geese, Commonly Known as Day-Old Stock.
Claims use since Jan. 1, 1927.

Ser. No. 257,418. HUGO STRAUSS PACKING CO., INC., Brooklyn, N. Y. Filed Nov. 11, 1927.

PURITY



No claim is made to the exclusive use of the word "Purity" apart from the mark shown in the drawing.
For Canned Food for Dogs, Cats, and Wild Carnivora.
Claims use since Dec. 6, 1926.

Ser. No. 260,738. A. C. LEGG PACKING COMPANY, INC., Birmingham, Ala. Filed Jan. 27, 1928.

Legg's OLD PLANTATION
SAUSAGE SEASONING
"BUILT UPON A FLAVOR"
BAG No 2
CORRECTLY SEASONS
50 Pounds of Cut Meats
NET WEIGHT 8 OZS OR MORE
Complies with all Pure Food Laws
MANUFACTURED EXCLUSIVELY BY
A.C.LEGG PACKING CO., Inc.
BIRMINGHAM, ALA. U.S.A.

No claim is made to any of the wording except "Legg's Old Plantation" and our name.
For Seasoning for Meats or Other Foods.
Claims use since Sept. 25, 1927.

Ser. No. 260,811. DECO REFRESHMENTS INC., Buffalo, N. Y. Filed Jan. 28, 1928.

THAT EXTRA BITE

For Finger Rolls, Sandwich Rolls, Wieners, Minced Meat, Pickles, Pickle Relish, Waffle Batter, Baked Waffles, Prepared Waffle Flour, Mustard, Potato Salad, Sauerkraut, Ham, Bacon, Cooked Fish, Pie, Ice Cream, Chocolate Powder, Oranges, Pancakes, Potato Chips, Bread, Fruit Jam, Chicken a la King, Soups, Eggs, Pork Sausage, Doughnuts, Cup Cakes, Sweet Rolls, Sliced Cake, Coconut Macaroons, Cooked Beans, Spaghetti, Cooked Asparagus Tips, Fresh Citrous, and Deciduous Fruits, Bananas, Canned Fruits, Dried Fruits, Cooked Fruits.
Claims use since about June 10, 1920.

Ser. No. 261,008. DAVID HUNT AND COMPANY, Oswego and Cherry Creek, N. Y. Filed Feb. 1, 1928.



The descriptive word "Brand" is disclaimed apart from the other features of the mark.
For Canned Fruits and Vegetables.
Claims use since Feb. 1, 1899.

Ser. No. 261,070. MEADOLAKE MILK PRODUCTS COMPANY, Sherman, Tex. Filed Feb. 2, 1928.

MEADOLAKE

For Creamery Butter, Ice Cream, Condensed Milk, Evaporated Milk, Powdered Skim Milk, Sweet Cream, Whole Milk, Cheese, Cottage Cheese, Powdered Buttermilk, Semi-dry Buttermilk, Buttermilk, Pimento Cheese, and Neufchâtel Cheese.
Claims use since Nov. 21, 1927.

Ser. No. 261,112. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, Jersey City, N. J. Filed Feb. 3, 1928. Under 10-year proviso.

CRESCENT CITY

For Coffee and Chicory Compound.
Claims use since Nov. 29, 1894.

Ser. No. 261,191. ORVILLE L. HAWKINS, Indianapolis, Ind. Filed Feb. 4, 1928.

GRAN'PA'S

For Pop-Corn Confections.
Claims use since July, 1905.

Ser. No. 261,968. WILLIAM F. LINDORFF, doing business as Lindorff Manufacturing Company, Flushing, N. Y. Filed Feb. 20, 1928.

GRAVET
THE WONDER GRAVY

The word "Gravy" is disclaimed apart from the mark as shown in the drawing.
For Gravy.
Claims use since Dec. 18, 1927.

Ser. No. 263,090. KASKO PRODUCTS COMPANY, INC., Philadelphia, Pa. Filed Mar. 13, 1928.

DEX

For Sweetening Compound Used as a Substitute for Sugar.
Claims use since Feb. 1, 1928.

Ser. No. 264,240. BENTLEY H. LYONS, doing business as B. H. Lyons Co., St. Louis, Mo. Filed Apr. 3, 1928.



The conventional lining for color shown on the drawing is disclaimed in this application.
For Coffee Substitute.
Claims use since Oct. 10, 1927.

Ser. No. 265,831. CROMPOND FARM, INC., Yorktown Heights, N. Y. Filed May 3, 1928.

CROMPOND FARM

For Eggs and Butter.
Claims use since July 1, 1927.

Ser. No. 266,254. E. MACKINNON & COELHO, Buenos Aires, Argentina. Filed May 11, 1928.

YERBA PARAGUAYA

ÑANDUTY

The term "Yerba Paraguaya" is disclaimed apart from the mark shown in the drawing.
For Paraguayan Tea (Yerba Mate).
Claims use since Aug. 14, 1928.

Ser. No. 266,454. BARAGER-WEBSTER COMPANY, Eau Claire, Wis. Filed May 16, 1928.

Webster's CHOCOLATE GEMS

The word "Chocolate" is disclaimed apart from the mark shown in the drawing.
For Candy.
Claims use since Apr. 1, 1928.

Ser. No. 266,475. NIELSEN PACKING COMPANY, doing business as Peak-O-Health Products, San Francisco, Calif. Filed May 16, 1928.

Peak-O-Health

No claim is made to the word "Health" apart from the mark shown.
For Canned Vegetables.
Claims use since May 5, 1928.

Ser. No. 266,849. CHOCOLATERIE-CONFISERE CÉSAR SOCIÉTÉ ANONYME, Antwerp, Belgium. Filed May 23, 1928.

CÉSAR



For Candies.
Claims use since April, 1901.

Ser. No. 266,992. HAWAIIAN PINEAPPLE COMPANY, LTD., San Francisco, Calif., and Iwilei, Territory of Hawaii. Filed May 25, 1928.



The representation of the goods and the container thereof, as well as the descriptive words "Hawaiian Pineapple," appearing on the drawing are hereby disclaimed apart from the mark as shown.
For Canned Pineapple.
Claims use since May 16, 1928.

Ser. No. 267,088. THE SOUTHWESTERN MILLING COMPANY, INC., New York, N. Y., and Kansas City, Mo. Filed May 26, 1928.



RED TURKEY

The lining on the drawing indicates the color red.
For Whole-Wheat Flour.
Claims use since May 9, 1928.

Ser. No. 267,384. OLIVER TWIST WAFER CO. INC., Long Island City, N. Y. Filed June 2, 1928.

OLIVER TWIST

For Ice-Cream Cones.
Claims use since May 10, 1928.

Ser. No. 267,471. THE UNIVERSAL MILK COMPANY, New York, N. Y. Filed June 4, 1928.



The word "Brand" is disclaimed apart from the mark as shown in the drawing.
For Evaporated Milk.
Claims use since Apr. 21, 1928.

Ser. No. 267,526. ATLANTIC COMMISSION CO., INC., New York, N. Y. Filed June 6, 1928.



No rights to the word "Brand" are claimed.
For Fresh Carrots, Lettuce, Apples, Cantaloupes, Beets, Cabbage, Spinach, Tomatoes, and Onions.
Claims use since about Jan. 1, 1927.

Ser. No. 267,544. EXCELSIOR BREWERY INC., Brooklyn, N. Y. Filed June 6, 1928.

OLDe KEG

For Malt Syrup and Pretzels.
Claims use since about February, 1928.

Ser. No. 267,975. LOS ANGELES BREWING CO., Los Angeles, Calif. Filed June 13, 1928.

EASTSIDE

For Malt Extracts for Food Purposes and Malt Syrups.
Claims use since January, 1906.

Ser. No. 268,275. CHARLES GLAZE, Exeter, Calif. Filed June 19, 1928.

HORN OF PLENTY

For Fresh Deciduous Fruits—Namely, Peaches, Plums, and Cherries; Fresh Grapes, and Fresh Figs.
Claims use since May 1, 1928.

Ser. No. 268,374. THE HONEY CANDY COMPANY OF AMERICA, Youngstown, Ohio. Filed June 20, 1928.

HONEY-MAID

The descriptive word "Honey" is disclaimed apart from the other features of the mark shown in the drawing. The lines on the drawing associated with the silhouette are not intended as color lines but are merely for shading.
For Candy.
Claims use since June 1, 1928.

Ser. No. 268,427. CREAM OF WHEAT COMPANY, Minneapolis, Minn. Filed June 21, 1928.

VETEMUST

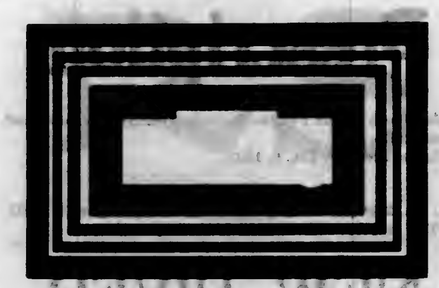
For Wheat Breakfast Food.
Claims use since about June 12, 1928.

Ser. No. 268,511. A. M. RALEY, doing business as Raley Coffee Co., Evansville, Ind. Filed June 22, 1928.

FORTY-NINE
BRAND
49 MALT SYRUP 49

Applicant disclaims the words "Brand Malt Syrup" shown on the drawing.
For Malt Syrup for Food Purposes.
Claims use since March, 1928.

Ser. No. 268,590. THE CURTISS CANDY COMPANY, Chicago, Ill. Filed June 25, 1928.



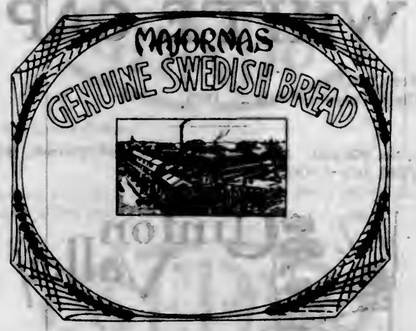
For Candy.
Claims use since Feb. 1, 1928.

Ser. No. 268,609. HOME EXTRACT COMPANY, Tacoma, Wash. Filed June 25, 1928.



The lining shown in the drawing indicates the color red. No claim is made to the exclusive use of the words "Malt Syrup" apart from the mark as shown in the drawing.
For Malt Syrup for Food Purposes.
Claims use since about 1922.

Ser. No. 268,666. B. WESTERGAARD & CO., Brooklyn, N. Y. Filed June 25, 1928.



No claim is made to the term "Genuine Swedish Bread" apart from the mark as shown.
For Bread.
Claims use since about August, 1927.

Ser. No. 268,682. I. W. E. DE WELLERS, INC., New York, N. Y., and Boston, Mass. Filed June 26, 1928.

Le Dernier Mot
The Last Word
IN CHOCOLATES

No claim is made to the words "In Chocolates" apart from the mark shown.
For Chocolates, Candies, and Bonbons.
Claims use since May 29, 1928.

Ser. No. 268,726. AMERICAN STORES COMPANY, Philadelphia, Pa. Filed June 27, 1928.

HIGH ART

For Coffee.
Claims use since Feb. 1, 1928.

Ser. No. 268,847. CITY MILLS COMPANY, Columbus, Ga. Filed June 29, 1928.



For Wheat Flour.
Claims use since Apr. 1, 1928.

Ser. No. 268,923. GORDON BAKING COMPANY, Detroit, Mich. Filed June 30, 1928.

FOUR X

For Bread.
Claims use since about June 6, 1928.

Ser. No. 269,018. FLAKO PRODUCTS CORPORATION, New Brunswick, N. J. Filed July 3, 1928.

QUIKO

For Prepared Flour for Biscuits and Shortcake.
Claims use since Apr. 2, 1928.

Ser. No. 269,039. ELEANOR B. REMMES, Washington, D. C. Filed July 3, 1928.



The drawing is lined to indicate gold color.
For Crystallized Grapefruit.
Claims use since May 18, 1928.

Ser. No. 269,055. PARLIER FRUIT GROWERS ASSOCIATION, Parlier, Calif. Filed July 3, 1928.

BONO

For Fresh Deciduous Fruits.
Claims use since Sept. 15, 1927.

Ser. No. 269,064. ITALIAN SAUSAGE MANUFACTURING CO., Beaver Falls, Pa. Filed July 3, 1928.



For Sausages.
Claims use since May 15, 1928.

Ser. No. 269,079. CHESTER O. BANKS, doing business as C. O. Banks Co., Monrovia, Calif. Filed July 5, 1928.

Prescription

For Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.
Claims use since Jan. 6, 1928.

Ser. No. 269,152. JAMES WILLIAM REED, Imperial, Calif. Filed July 5, 1928.

NEW RIVER

For Fresh Grapefruit.
Claims use since Feb. 8, 1928.

Ser. No. 269,156. AD. SEIDEL & SONS, Chicago, Ill. Filed July 5, 1928.

SEI-JEL

For Dry Jelly, in Other Words a Dehydrated Jelly in Powdered Form Containing Flavoring and Other Ingredients Ready Mixed for Making Jelly and the Like.
Claims use since June 20, 1928.

Ser. No. 269,164. THE J. WELLER COMPANY, Oak Harbor, Ohio. Filed July 5, 1928.

ACME

For Pickles.
Claims use since 1891.

Ser. No. 269,166. STEPHEN F. WHITMAN & SON, INC., Philadelphia, Pa. Filed July 5, 1928.

WHITE CAP

For Candy.
Claims use since July 21, 1925.

Ser. No. 269,210. A. F. THIBODEAU CO., INC., Detroit, Mich. Filed July 6, 1928.



For Butter.
Claims use since January, 1928.

Ser. No. 269,257. RICHMAN & SAMUELS INC., New York, N. Y. Filed July 7, 1928.

RS

For Fresh Vegetables.
Claims use since Jan. 1, 1927.

Ser. No. 269,333. TIP TOP CREAMERY CO., Vincennes, Ind. Filed July 9, 1928.

Golden Sun

For Butter.
Claims use since May 7, 1928.

Ser. No. 269,341. WHITE HALL BAKING COMPANY, Flint and Detroit, Mich. Filed July 9, 1928.

RED CLOUD

For Bread.
Claims use since about Nov. 18, 1927.

Ser. No. 269,366. REICHARDT COCOA & CHOCOLATE CO. INC., also doing business as Reichardt, New Brunswick, N. J. Filed July 10, 1928.

INGLENOOK

For Candy.
Claims use since June 1, 1928.

Ser. No. 269,384. J. ARON & COMPANY, INC., New Orleans, La. Filed July 11, 1928.

GENBO

For Green Coffee.
Claims use since April, 1927.

Ser. No. 269,385. J. ARON & COMPANY, INC., New Orleans, La. Filed July 11, 1928.

SEPAR

For Green Coffee.
Claims use since April, 1927.

Ser. No. 269,388. MARION C. BRUNER, doing business as Powder Puff Candy Co., Los Angeles, Calif. Filed July 11, 1928.

POWDER PUFF

For Candy.
Claims use since May 1, 1928.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 251,056. HEAT PROOF TABLE MAT COMPANY, St. Louis, Mo. Filed June 24, 1927.

IMPERIAL

For Table Mats.
Claims use since June, 1922.

Ser. No. 264,687. HY-ART HY-WAY DISPLAY CORPORATION, Los Angeles, Calif. Filed Apr. 11, 1928.



Applicant disclaims the words "Los Angeles" and "Trade Mark." The word "Sculpture" is disclaimed apart from the mark shown.
For Statuary for Outdoor Display, Principally for Advertising Purposes.
Claims use since Feb. 12, 1928.

Ser. No. 268,074. THE ASPINOOK CO., Jewett City, Conn. Filed June 15, 1928.

PERMA TEX

For Leather Substitutes and Pyroxylin-Coated Fabrics.
Claims use since May 18, 1927.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

AUGUST 21, 1928.

245,599. PLATED WARE IN GENERAL USED IN CONNECTION WITH PLUMBER'S WORK—NAMELY, COCKS AND FAUCETS, BASIN AND BATH WASTE FITTINGS, LAVATORY FIXTURES, SHOWER-BATH FITTINGS, AND FLUSH VALVES. HUDSON BRASS WORKS, INC., Brooklyn, N. Y.
Filed December 7, 1927. Serial No. 258,578. PUBLISHED JUNE 12, 1928. Class 13.

245,600. LUBRICATING AND CUTTING OILS AND GREASES. FRED SWAIN, doing business as Standard Auto Products Company, Ohio, Ill.
Filed December 2, 1927. Serial No. 258,361. PUBLISHED JUNE 5, 1928. Class 15.

245,601. SHOCK ABSORBERS FOR MOTOR-DRIVEN VEHICLES, AS AUTOMOBILES, TRUCKS, AND BUSSES. JOHN HECTOR GRAHAM, New York, N. Y.
Filed November 12, 1927. Serial No. 257,507. PUBLISHED JUNE 5, 1928. Class 19.

245,602. GINGER ALE. PACIFIC EXTRACT COMPANY OF ILLINOIS, INC., Chicago, Ill.
Filed November 9, 1927. Serial No. 257,304. PUBLISHED JUNE 12, 1928. Class 45.

245,603. HOME WORK-SHOP UNITS COMPRISING LATHES, SAWS, DRILLS, BUFFERS, AND GRINDERS. DELTA MANUFACTURING COMPANY, Milwaukee, Wis.
Filed November 1, 1927. Serial No. 256,863. PUBLISHED JUNE 5, 1928. Class 26.

245,604. CERTAIN NAMED TEXTILE ARTICLES. DEMETRIUS PAPADEMETRIUS, New Bedford, Mass.
Filed October 27, 1927. Serial No. 256,650. PUBLISHED JUNE 12, 1928. Class 42.

245,605. WEEKLY PUBLICATION. NORA H. BLOM, Los Angeles, Calif.
Filed October 25, 1927. Serial No. 256,559. PUBLISHED JUNE 5, 1928. Class 38.

245,606. SHELLFISH—VIZ, CANNED OYSTERS AND OYSTERS IN THEIR NATURAL STATE. J. & J. W. ELSWORTH CO., New York, N. Y.
Filed October 15, 1927. Serial No. 256,106. PUBLISHED JUNE 5, 1928. Class 46.

245,607. CANNED PORK AND BEANS. BESSIE BROWN, Philadelphia, Pa.
Filed October 14, 1927. Serial No. 256,072. PUBLISHED JUNE 5, 1928. Class 46.

245,608. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS, EXTRACTS, AND CONCENTRATES FOR MAKING THE SAME. ANTONIO MORA, doing business as More Mora Company, Johnstown, Pa.
Filed October 8, 1927. Serial No. 255,817. PUBLISHED JUNE 12, 1928. Class 45.

245,609. JEWELRY FOR PERSONAL USE OR ADORNMENT CONSISTING OF FINGER RINGS, EARRINGS, BRACELETS, PENDANTS, NECKLACES, WATCH BRACELETS, BAGS, BROOCHES, BUCKLES, BAR PINS, CUFF LINKS, LORGNETTES, STUDS, SCARF PINS, HATPINS, VEST BUTTONS, AND HANDY PINS, ALL MADE OF OR PLATED WITH PRECIOUS METAL. ORESTE PENNINO, doing business as Pennino Brothers, New York, N. Y.
Filed October 6, 1927. Serial No. 255,724. PUBLISHED JUNE 12, 1928. Class 28.

245,610. PENCIL CASE CONSISTING OF AN OBLONG BAG MADE OF RUBBERIZED FABRIC WITH AN OPENING AT THE TOP WHICH MAY BE CLOSED BY MEANS OF THE SO-CALLED ZIPPER FASTENER. JOHN SAMUELS, New York, N. Y.
Filed September 21, 1927. Serial No. 255,032. PUBLISHED JUNE 5, 1928. Class 37.

245,611. TOILET SEATS. M. P. BERGLAS MANUFACTURING CO. INC., Brooklyn, N. Y.
Filed September 15, 1927. Serial No. 254,739. PUBLISHED JUNE 5, 1928. Class 13.

245,612. CERTAIN NAMED PIECE GOODS. N. V. NEDERLANDSCHE KUNSTZIJDEFABRIEK, Arnhem, Netherlands.
Filed September 8, 1927. Serial No. 254,507. PUBLISHED JUNE 5, 1928. Class 42.

245,613. FINISHING MACHINES AND POLISHING MACHINES FOR USE IN CONNECTION WITH THE MANUFACTURE AND REPAIR OF SHOES. UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass.
Filed August 27, 1927. Serial No. 254,064. PUBLISHED JUNE 12, 1928. Class 23.

245,614. CEMENTING MACHINES FOR APPLYING CEMENT TO SHOES AND SHOE PARTS AND MACHINES FOR OPERATING UPON INSOLES, INCLUDING MACHINES FOR CHANNELING, REINFORCING, STITCHING, OR WETTING INSOLES, INSOLE-LIP-CEMENTING MACHINES, AND INSOLE-LIP-SETTING MACHINES. UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass.
Filed August 26, 1927. Serial No. 254,017. PUBLISHED JUNE 5, 1928. Class 23.

245,615. SEMIMONTHLY MAGAZINE. B. C. FORBES PUBLISHING COMPANY, New York, N. Y.
Filed August 26, 1927. Serial No. 253,992. PUBLISHED JUNE 5, 1928. Class 38.

245,616. STRAINERS USED IN CONNECTION WITH MARINE DIESEL ENGINES FOR REMOVING FOREIGN MATERIAL OR SOLID MATTER FROM THE FUEL AND LUBRICATING FLUIDS. R. A. & M. T. MEYER, New York, N. Y.
Filed August 20, 1927. Serial No. 253,763. PUBLISHED JUNE 5, 1928. Class 23.

245,617. TUBE ROPE, WALL-PAPER TWINE, JUTE WRAPPING TWINE, AND JUTE MILLER'S TWINE. HANOVER CORDAGE COMPANY, Hanover, Pa.
Filed August 20, 1927. Serial No. 253,753. PUBLISHED JUNE 5, 1928. Class 7.

245,618. ELECTRICAL APPARATUS INCLUDING BATTERY-CELL TESTERS, BATTERY TEST SETS, BATTERY POLARITY FINDERS, MAGNETO TESTERS, MAGNTO COMPASSES, AND COIL TESTERS. SERVWELL SALES CORPORATION, Chicago, Ill.
Filed August 15, 1927. Serial No. 253,518. PUBLISHED JUNE 5, 1928. Class 26.

245,619. ROLLING-MILL MACHINERY. THE AETNA-STANDARD ENGINEERING COMPANY, Youngstown, Ohio.
Filed January 25, 1928. Serial No. 260,611. PUBLISHED JUNE 5, 1928. Class 23.

245,620. JEWELRY—NAMELY, PLATINUM FINGER RINGS, BROOCHES, BAR PINS, PENDANTS, BRACELETS, AND VEIL PINS. MORRIS WEINER, New York, N. Y.
Filed January 16, 1928. Serial No. 260,201. PUBLISHED JUNE 12, 1928. Class 28.

245,621. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. MICHELSEN & GROSSMAN, New York, N. Y.
Filed December 22, 1927. Serial No. 259,247. PUBLISHED JUNE 5, 1928. Class 28.

245,622. ELECTRIC WAFFLE IRONS, ELECTRIC WAFFLE-IRON SETS, ELECTRIC DOUGHNUT BAKERS, ELECTRIC HOT PLATES, ELECTRIC GRIDDLES, ELECTRIC HEATERS, ELECTRIC HEATING PADS, ELECTRIC PERCOLATORS, ELECTRIC SADIRONS, ELECTRIC TOASTERS, ELECTRIC CURLERS, AND ELECTRIC SOLDERING IRONS. DOMINION ELECTRICAL MFG. CO., Minneapolis, Minn.
Filed January 11, 1928. Serial No. 259,946. PUBLISHED JUNE 12, 1928. Class 21.

245,623. BURIAL CASKETS. EDMUND J. GREIVE, doing business as Greive Mfg. Co., Los Angeles, Calif.
Filed January 5, 1928. Serial No. 259,729. PUBLISHED JUNE 5, 1928. Class 2.

245,624. VANITY CASE OR COMPACT CASE SOLD EMPTY TO THE TRADE. PARFUMS EDOUARDO, a Corporation, New York, N. Y., assignor to Ruby T. Brewster, New York, N. Y.
Filed January 4, 1928. Serial No. 259,693. PUBLISHED JUNE 12, 1928. Class 2.

245,625. CHOCOLATE PRALINES, CHOCOLATE, AND CANDIES. ALIKO CHOCOLATE CO. INC., New York, N. Y.
Filed December 31, 1927. Serial No. 259,524. PUBLISHED JUNE 5, 1928. Class 46.

245,626. CHEWING, SMOKING, SNUFFING TOBACCOS, CIGARS, AND CIGARETTES. GENERAL-DIREKTION DER ÖSTERR. TABAKREGIE, Vienna, Austria.
Filed December 30, 1927. Serial No. 259,489. PUBLISHED JUNE 12, 1928. Class 17.

245,627. INCINERATORS. KERNIT INCINERATOR COMPANY, Milwaukee, Wis.
Filed December 28, 1927. Serial No. 259,411. PUBLISHED JUNE 5, 1928. Class 34.

245,628. BACON. MAESCHER & CO., Cincinnati, Ohio.
Filed December 27, 1927. Serial No. 259,340. PUBLISHED JUNE 5, 1928. Class 46.

245,629. LUBRICATING OIL FOR AUTOMOBILES. GIBSON OIL COMPANY, Fort Smith, Ark.
Filed December 23, 1927. Serial No. 259,283. PUBLISHED JUNE 12, 1928. Class 15.

245,630. AIR AND WATER HEATERS USING SOLID, LIQUID, OR GASEOUS FUEL OR WASTE HEAT FROM FURNACES, THE AIR HEATED BEING USED FOR COMBUSTION IN FURNACES OR FOR GENERAL WARMING PURPOSES, AND THE WATER HEATED BEING USED FOR BOILER FEED WATER OR FOR OTHER PURPOSES. GALLOWAYS LIMITED, Manchester, England.
Filed December 23, 1927. Serial No. 259,280. PUBLISHED JUNE 5, 1928. Class 34.

245,631. HYDROSTEAROLEINE, THE SAME BEING A HYDROGENATED VEGETABLE OIL OF LARD-LIKE APPEARANCE AND CONSISTENCY. WILSON & CO., INC., Chicago, Ill.
Filed December 16, 1927. Serial No. 259,036. PUBLISHED APRIL 10, 1928. Class 46.

245,632. BEDS, BED SPRINGS, AND MATTRESSES. SOUTHERN SPRING BED COMPANY, Atlanta, Ga.
Filed December 15, 1927. Serial No. 258,961. PUBLISHED JUNE 12, 1928. Class 32.

245,633. COMBINATION RADIOSPEAKER AND ELECTRIC LAMP. WULKAN-FLEMMING, INC., New York, N. Y.
Filed December 14, 1927. Serial No. 258,927. PUBLISHED JUNE 5, 1928. Class 21.

245,634. CANNED FRANKFURTERS WITH SAUERKRAUT. BILTMORE FOOD PRODUCTS CO. INC., New York, N. Y.
Filed December 13, 1927. Serial No. 258,854. PUBLISHED JUNE 5, 1928. Class 46.

245,635. LAWN MOWERS. WORCESTER LAWN MOWER COMPANY, Worcester, Mass.
Filed November 25, 1927. Serial No. 258,054. PUBLISHED JUNE 5, 1928. Class 23.

245,636. CLOCKS. HAWKEYE CLOCK CO., Muscatine, Iowa.
Filed December 8, 1927. Serial No. 258,613. PUBLISHED JUNE 12, 1928. Class 27.

245,637. JEWELRY FOR PERSONAL USE OR ADORNMENT CONSISTING OF FINGER RINGS, EARRINGS, BRACELETS, PENDANTS, NECKLACES, WATCH BRACELETS, BAGS, BROOCHES, BUCKLES, BAR PINS, CUFF LINKS, LORGNETTES, STUDS, SCARF PINS, HATPINS, VEST BUTTONS, AND HANDY PINS, ALL MADE OF OR PLATED WITH PRECIOUS METAL. ORESTE PENNINO, doing business as Pennino Brothers, New York, N. Y.
Filed October 6, 1927. Serial No. 255,723. PUBLISHED JUNE 5, 1928. Class 28.

245,638. COMIC CARTOONS. DON HEROLD, Long Beach, Calif.
Filed September 7, 1927. Serial No. 254,454. PUBLISHED JUNE 12, 1928. Class 38.

245,639. CIGARS. CORRAL WODISKA Y CA., Tampa, Fla.
Filed March 30, 1928. Serial No. 264,019. PUBLISHED JUNE 5, 1928. Class 17.

245,640. GRAIN DRILLS AND HARROWS. J. I. CASE THRESHING MACHINE COMPANY, Racine, Wis.
Filed March 30, 1928. Serial No. 264,011. PUBLISHED JUNE 12, 1928. Class 23.

245,641. ELECTRICAL MEASURING INSTRUMENTS SUCH AS AMMETERS, VOLTMETERS, WATTMETERS, AND THE LIKE. JEWELL ELECTRICAL INSTRUMENT CO., Chicago, Ill.
Filed March 29, 1928. Serial No. 263,948. PUBLISHED JUNE 12, 1928. Class 26.

245,642. MAGAZINE PUBLISHED BIWEEKLY. DELL PUBLISHING COMPANY, New York, N. Y.
Filed March 29, 1928. Serial No. 263,935. PUBLISHED JUNE 12, 1928. Class 38.

245,643. POLISH FOR SILVERWARE, METAL, AND GLASS. CHARLES H. SCHULMAN, Brooklyn, N. Y.
Filed March 28, 1928. Serial No. 263,898. PUBLISHED JUNE 12, 1928. Class 4.

245,644. MAGAZINE PUBLISHED MONTHLY. THE CURTIS PUBLISHING COMPANY, Philadelphia, Pa.
Filed March 28, 1928. Serial No. 263,863. PUBLISHED JUNE 5, 1928. Class 38.

245,645. ELECTRIC CLOTHES WASHER. CONLON CORPORATION, Cicero, Ill.
Filed March 28, 1928. Serial No. 263,862. PUBLISHED JUNE 5, 1928. Class 24.

245,646. WALL PAPER PACKED IN CARTONS. A. H. STEBBINS, Little Rock, Ark.
Filed March 27, 1928. Serial No. 263,836. PUBLISHED JUNE 5, 1928. Class 37.

245,647. FERTILIZERS. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed March 27, 1928. Serial No. 263,820. PUBLISHED JUNE 5, 1928. Class 10.

245,648. FINGER AND EAR RINGS, BRACELETS, SCARF PINS, BAR PINS, AND PENDANTS. FRACKMAN BROS., New York, N. Y.
Filed March 27, 1928. Serial No. 263,817. PUBLISHED JUNE 12, 1928. Class 28.

245,649. AXES, SCYTHES, GRASS SHEARS; BUSH, CORN, AND GRASS HOOKS; BREAD, CORN, AND HAY KNIVES. NORTH WAYNE TOOL COMPANY, Oakland, Me.
Filed March 26, 1928. Serial No. 263,781. PUBLISHED JUNE 5, 1928. Class 23.

245,650. PORTABLE ELECTRIC LAMPS. THE DIGIT MANUFACTURING COMPANY, New York, N. Y.
Filed March 26, 1928. Serial No. 263,754. PUBLISHED JUNE 5, 1928. Class 21.

245,651. CANNED BISMARK HERRING, CANNED ROLLMOPS, CANNED SPICED ANCHOVIES, CANNED SARDELLES, CANNED APPETIT-SILD, CANNED SALT HERRING, CANNED SPICED HERRING, CANNED SARDINES, CANNED RUSSIAN SARDINES. MENZEL & Co., New York, N. Y.
Filed March 24, 1928. Serial No. 263,714. PUBLISHED JUNE 12, 1928. Class 46.

245,652. SEMIMONTHLY PUBLICATION. B. KUPPENHEIMER & Co. INC., Chicago, Ill.
Filed March 23, 1928. Serial No. 263,657. PUBLISHED JUNE 5, 1928. Class 38.

245,653. LUBRICATING OIL. C. E. HARRELL, doing business as C. E. Harrell Co., Kansas City, Mo.
Filed March 22, 1928. Serial No. 263,604. PUBLISHED JUNE 5, 1928. Class 15.

245,654. ELECTRIC CONTROLS FOR ELECTRIC SWITCHES, TEMPERATURE-OPERATED ELECTRIC SWITCHES, PRESSURE-OPERATED ELECTRIC SWITCHES, AND PARTS THEREOF. THE FEDERAL GAUGE COMPANY, Chicago, Ill.
Filed March 22, 1928. Serial No. 263,597. PUBLISHED JUNE 5, 1928. Class 21.

245,655. ELECTRIC CONTROLS FOR ELECTRIC SWITCHES, TEMPERATURE-OPERATED ELECTRIC SWITCHES, PRESSURE-OPERATED ELECTRIC SWITCHES, AND PARTS THEREOF. THE FEDERAL GAUGE COMPANY, Chicago, Ill.
Filed March 22, 1928. Serial No. 263,596. PUBLISHED JUNE 5, 1928. Class 21.

245,656. COFFEE. EOLA COFFEE COMPANY, Orlando, Fla.
Filed March 22, 1928. Serial No. 263,595. PUBLISHED JUNE 5, 1928. Class 46.

245,657. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. W. R. CARPENTER, doing business as Batesville Bottling Co., Batesville, Ark.
Filed March 22, 1928. Serial No. 263,585. PUBLISHED JUNE 12, 1928. Class 45.

245,658. MAGAZINE OF POPULAR SONGS PUBLISHED MONTHLY. HARRY L. BONNELL, doing business as Popular Songs Publishing Company, Los Angeles, Calif.
Filed March 21, 1928. Serial No. 263,531. PUBLISHED JUNE 5, 1928. Class 38.

245,659. YARNS OR THREADS. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed April 17, 1928. Serial No. 264,967. PUBLISHED JUNE 5, 1928. Class 43.

245,660. YARNS OR THREADS. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed April 17, 1928. Serial No. 264,966. PUBLISHED JUNE 5, 1928. Class 43.

245,661. YARNS OR THREADS. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed April 17, 1928. Serial No. 264,965. PUBLISHED JUNE 5, 1928. Class 43.

245,662. YARNS OR THREADS. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed April 17, 1928. Serial No. 264,964. PUBLISHED JUNE 5, 1928. Class 43.

245,663. YARNS OR THREADS. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed April 17, 1928. Serial No. 264,963. PUBLISHED JUNE 5, 1928. Class 43.

245,664. MONTHLY PUBLICATION. JEAN BLUM, doing business as Blum's Advertising Agency, San Francisco, Calif.
Filed April 17, 1928. Serial No. 264,959. PUBLISHED JUNE 5, 1928. Class 38.

245,665. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS, EXTRACTS, AND CONCENTRATES FOR PREPARING SAME. SIERRA CLUB BEVERAGE CO. INC., Glendale, Calif.
Filed April 16, 1928. Serial No. 264,920. PUBLISHED JUNE 12, 1928. Class 45.

245,666. CLOTHES-WASHING MACHINES AND CENTRIFUGAL DRIERS AND COMBINED CLOTHES-WASHING MACHINES AND CENTRIFUGAL DRIERS. SYRACUSE WASHING MACHINE CORPORATION, Syracuse, N. Y.
Filed April 16, 1928. Serial No. 264,924. PUBLISHED JUNE 5, 1928. Class 24.

245,667. IRONING-BOARD COVERS AND PADS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed April 16, 1928. Serial No. 264,908. PUBLISHED JUNE 12, 1928. Class 24.

245,668. IRONING-BOARD COVERS AND PADS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed April 16, 1928. Serial No. 264,904. PUBLISHED JUNE 12, 1928. Class 24.

245,669. DRINKING WATER. CASCADE WATER COMPANY, Los Angeles, Calif.
Filed April 16, 1928. Serial No. 264,870. PUBLISHED JUNE 12, 1928. Class 45.

245,670. PREPARATION FOR CLEANING AND POLISHING SILVERWARE. SERVICE PRODUCTS INCORPORATED, Greenville, Pa.
Filed April 14, 1928. Serial No. 264,848. PUBLISHED JUNE 12, 1928. Class 4.

245,671. CEMENT-MAKING APPARATUS—NAMELY, MILLS AND CRUSHERS. POLYSIUS CORPORATION, Bethlehem, Pa.
Filed April 14, 1928. Serial No. 264,844. PUBLISHED JUNE 12, 1928. Class 23.

245,672. WEDDING RINGS. WALTER PELS, New York, N. Y.
Filed April 14, 1928. Serial No. 264,841. PUBLISHED JUNE 12, 1928. Class 28.

245,673. BRAKE-BAND LININGS. DURWILLAN COMPANY, INC., Paterson, N. J.
Filed April 14, 1928. Serial No. 264,812. PUBLISHED JUNE 5, 1928. Class 35.

245,674. TURKISH TOWELS. BOOTT MILLS, Lowell, Mass.
Filed April 14, 1928. Serial No. 264,802. PUBLISHED JUNE 12, 1928. Class 42.

245,675. SPARK PLUGS. THE B. G. CORPORATION, New York, N. Y.
Filed April 14, 1928. Serial No. 264,798. PUBLISHED JUNE 12, 1928. Class 21.

245,676. INTERNAL-COMBUSTION ENGINES FOR AERONAUTICAL PURPOSES. WRIGHT AERONAUTICAL CORPORATION, Paterson, N. J.
Filed April 13, 1928. Serial No. 264,790. PUBLISHED JUNE 12, 1928. Class 23.

245,677. FRESH CITRUS FRUITS. E. P. PORCHER, Cocoa, Fla.
Filed April 13, 1928. Serial No. 264,775. PUBLISHED JUNE 12, 1928. Class 46.

245,678. FRESH CITRUS FRUITS. E. P. PORCHER, Cocoa, Fla.
Filed April 13, 1928. Serial No. 264,774. PUBLISHED JUNE 12, 1928. Class 46.

245,679. MALTLESS, CARBONATED BEVERAGES SOLD AS SOFT DRINKS. MUTUAL BOTTLING WORKS, Chicago, Ill.
Filed April 19, 1928. Serial No. 265,114. PUBLISHED JUNE 5, 1928. Class 45.

245,680. BIWEEKLY FICTION MAGAZINE. LUCKY PUBLISHING CORPORATION, New York, N. Y.
Filed April 19, 1928. Serial No. 265,111. PUBLISHED JUNE 5, 1928. Class 38.

245,681. CERTAIN WOVEN, KNITTED, AND FELTED FABRICS. THE HASKELL SILK COMPANY, Westbrook, Me., and New York, N. Y.
Filed April 19, 1928. Serial No. 265,105. PUBLISHED JUNE 5, 1928. Class 42.

245,682. PUBLICATION ISSUED MONTHLY. BRISTOL & WILLETT, New York, N. Y.
Filed April 19, 1928. Serial No. 265,090. PUBLISHED JUNE 5, 1928. Class 38.

245,683. PERIODICALS ISSUED AT REGULAR INTERVALS. PURCHASING AGENTS' ASSOCIATION OF NORTHERN CALIFORNIA, INCORPORATED, San Francisco, Calif.
Filed April 18, 1928. Serial No. 265,067. PUBLISHED JUNE 5, 1928. Class 38.

245,684. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. SIMON MILLER & Co., Newark, N. J.
Filed April 18, 1928. Serial No. 265,057. PUBLISHED JUNE 12, 1928. Class 28.

245,685. MECHANICAL AUXILIARY STARTER FOR AUTOMOBILES. ALEXANDER C. MCCURDY, doing business as McCurdy Safety Extension Auto Starter Co., Towson, Md.
Filed April 18, 1928. Serial No. 265,051. PUBLISHED JUNE 12, 1928. Class 23.

245,686. MIRRORS. W. P. FULLER & Co., San Francisco, Calif.
Filed April 18, 1928. Serial No. 265,040. PUBLISHED JUNE 5, 1928. Class 32.

245,687. MIRRORS. W. P. FULLER & Co., San Francisco, Calif.
Filed April 18, 1928. Serial No. 265,039. PUBLISHED JUNE 5, 1928. Class 32.

245,688. COTTON PIECE GOODS. POMONA MILLS, INC., Greensboro, N. C.
Filed April 17, 1928. Serial No. 265,012. PUBLISHED JUNE 5, 1928. Class 42.

245,689. FRESH DECIDUOUS FRUITS, FRESH CITRUS FRUITS, AND FRESH VEGETABLES. NEHLS & HUSENER, Fresno and Armona, Calif.
Filed April 17, 1928. Serial No. 264,998. PUBLISHED JUNE 5, 1928. Class 46.

245,690. CANNED FISH—NAMELY, CANNED TONNO. ITALIAN FOOD PRODUCTS COMPANY, INC., Long Beach, Calif.
Filed April 17, 1928. Serial No. 264,990. PUBLISHED JUNE 5, 1928. Class 46.

245,691. GINGER ALE. EDWARD WILLIAM HAMANN, Minneapolis, Minn.
Filed April 17, 1928. Serial No. 264,979. PUBLISHED JUNE 12, 1928. Class 45.

245,692. MATTRESS COVERS AND BLANKET COVERS MADE OF TEXTILE FABRIC. AL-LON MFG. CO. INC., Baltimore, Md.
Filed April 17, 1928. Serial No. 264,936. PUBLISHED JUNE 5, 1928. Class 42.

245,693. FRESH CITRUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT. CHULA VISTA CITRUS ASSOCIATION, Chula Vista, Calif.
Filed March 20, 1928. Serial No. 263,461. PUBLISHED JUNE 12, 1928. Class 46.

245,694. GRAIN BAGS. J. E. HARTON, San Francisco, Calif.
Filed March 19, 1928. Serial No. 263,394. PUBLISHED JUNE 5, 1928. Class 2.

245,695. GRAIN BAGS. J. E. HARTON, San Francisco, Calif.
Filed March 19, 1928. Serial No. 263,393. PUBLISHED JUNE 5, 1928. Class 2.

245,696. AUTOMOBILE TOP DRESSING AND REFINISHER FOR RUBBER GOODS AND LEATHER AND IMITATION OF LEATHER. VERNON A. MINOR, Columbus, Ohio.
Filed March 17, 1928. Serial No. 263,332. PUBLISHED JUNE 12, 1928. Class 4.

245,697. GRAIN BAGS. J. E. HARTON, San Francisco, Calif.
Filed March 17, 1928. Serial No. 263,319. PUBLISHED JUNE 5, 1928. Class 2.

245,698. PIANOS AND PLAYER PIANOS. HARDMAN, PECK & Co., New York, N. Y.
Filed March 17, 1928. Serial No. 263,318. PUBLISHED JUNE 12, 1928. Class 36.

245,699. TRADE JOURNALS, PAMPHLETS, OR SO-CALLED HOUSE ORGANS. THE AUTOMOTIVE ROYALTIES CORPORATION, INC., New York, N. Y.
Filed April 26, 1928. Serial No. 265,421. PUBLISHED JUNE 12, 1928. Class 38.

245,700. AUTOMOBILE TIRES AND TUBES. PHELPS TIRE & RUBBER COMPANY, Garfield, N. J.
Filed April 25, 1928. Serial No. 265,401. PUBLISHED JUNE 5, 1928. Class 35.

245,701. SEWING MACHINES. UNION SPECIAL MACHINE COMPANY, Chicago, Ill.
Filed April 23, 1928. Serial No. 265,306. PUBLISHED JUNE 5, 1928. Class 23.

245,702. GINGER ALE. SPRINGER BROS. INC., Louisville, Ky.
Filed April 23, 1928. Serial No. 265,302. PUBLISHED JUNE 5, 1928. Class 45.

245,703. SOAPS. GEORGE W. MARSH, St. Louis, Mo.
Filed April 23, 1928. Serial No. 265,280. PUBLISHED JUNE 12, 1928. Class 4.

245,704. SPORTING-COLUMN HEAD. RALPH CANNON, Chicago, Ill.
Filed April 23, 1928. Serial No. 265,256. PUBLISHED JUNE 5, 1928. Class 38.

245,705. MONTHLY PUBLICATION. POPULAR RADIO, INC., New York, N. Y.
Filed April 21, 1928. Serial No. 265,236. PUBLISHED JUNE 5, 1928. Class 38.

245,706. SHAVING SOAP. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 21, 1928. Serial No. 265,228. PUBLISHED JUNE 12, 1928. Class 4.

245,707. HOUSE ORGAN ISSUED FROM TIME TO TIME. ALICE FOOTE MACDOUGALL & SONS, INC., New York, N. Y.
Filed April 21, 1928. Serial No. 265,223. PUBLISHED JUNE 5, 1928. Class 38.

245,708. COFFEE. HALE-HALSELL COMPANY, McAlester, Okla.
Filed April 21, 1928. Serial No. 265,211. PUBLISHED JUNE 5, 1928. Class 46.

245,709. CAST-IRON PIPE. JAMES B. CLOW & SONS, Chicago, Ill.
Filed April 21, 1928. Serial No. 265,196. PUBLISHED JUNE 5, 1928. Class 13.

245,710. CANDY. BRECHT CANDY CO., also doing business as Brecht's, Denver, Colo.
Filed April 21, 1928. Serial No. 265,192. PUBLISHED JUNE 5, 1928. Class 46.

245,711. PNEUMATIC RUBBER TIRES AND TUBES. THE AMERICAN RUBBER & TIRE CO., doing business as The Artco Rubber & Tire Co., Akron, Ohio.
Filed April 21, 1928. Serial No. 265,183. PUBLISHED JUNE 5, 1928. Class 35.

245,712. CIGARS. DAVID J. WEINREICH, doing business as Joseph Weinreich, Dayton, Ohio.
Filed April 20, 1928. Serial No. 265,180. PUBLISHED JUNE 5, 1928. Class 17.

245,713. COFFEE. FREDERICK C. HUFFINO, doing business as Italian Roasted Coffee Mfg. Co., Detroit, Mich.
Filed April 20, 1928. Serial No. 265,169. PUBLISHED JUNE 12, 1928. Class 46.

245,714. OPHTHALMIC LENSES. NEWTON OPTICAL COMPANY, Indianapolis, Ind.
Filed April 20, 1928. Serial No. 265,162. PUBLISHED JUNE 5, 1928. Class 26.

245,715. TRADE PUBLICATION. SAMUEL BORGER, New York, N. Y.
Filed April 20, 1928. Serial No. 265,136. PUBLISHED JUNE 12, 1928. Class 38.

245,716. BABY CHAIRS. BASTIAN MANUFACTURING COMPANY, Grand Island, Nebr.
Filed April 20, 1928. Serial No. 265,133. PUBLISHED JUNE 5, 1928. Class 32.

245,717. SPRING UNITS FOR ALL SPRING-EQUIPPED FURNITURE AND UPHOLSTERY, INCLUDING VEHICLE SEATS, AND ALL SPRING-EQUIPPED CUSHIONS OR PADS. TRENTON SPRING PRODUCTS COMPANY, Trenton, N. J.
Filed April 19, 1928. Serial No. 265,127. PUBLISHED JUNE 12, 1928. Class 32.

245,718. MALTLESS, CARBONATED BEVERAGES SOLD AS SOFT DRINKS. MUTUAL BOTTLING WORKS, Chicago, Ill.
Filed April 19, 1928. Serial No. 265,115. PUBLISHED JUNE 5, 1928. Class 45.

245,719. STORAGE BATTERIES. GRANT STORAGE BATTERY COMPANY, Minneapolis, Minn.
Filed April 6, 1928. Serial No. 264,428. PUBLISHED JUNE 12, 1928. Class 21.

245,720. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. ZUCHMAN BROS., New York, N. Y.
Filed April 5, 1928. Serial No. 264,403. PUBLISHED JUNE 5, 1928. Class 28.

245,721. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. SIGMAN BROS., New York, N. Y.
Filed April 5, 1928. Serial No. 264,391. PUBLISHED JUNE 5, 1928. Class 28.

245,722. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. SCHNEIDER, HYMAN & CO., New York, N. Y.
Filed April 5, 1928. Serial No. 264,386. PUBLISHED JUNE 5, 1928. Class 28.

245,723. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. MASUR & HERMAN, New York, N. Y.
Filed April 5, 1928. Serial No. 264,378. PUBLISHED JUNE 5, 1928. Class 28.

245,724. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. JACOB LERMAN, New York, N. Y.
Filed April 5, 1928. Serial No. 264,376. PUBLISHED JUNE 5, 1928. Class 28.

245,725. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. KRAYSLER BROS., New York, N. Y.
Filed April 5, 1928. Serial No. 264,375. PUBLISHED JUNE 5, 1928. Class 28.

245,726. WATCHES AND WATCHCASES. ELGIN NATIONAL WATCH COMPANY, Chicago, Ill.
Filed April 5, 1928. Serial No. 264,367. PUBLISHED JUNE 12, 1928. Class 27.

245,727. TOILET SOAP. CHARLES A. CRARY, Cincinnati, Ohio.
Filed April 5, 1928. Serial No. 264,359. PUBLISHED JUNE 12, 1928. Class 4.

245,728. MOTION-PICTURE FILMS. CARPENTER-GOLDMAN LABORATORIES, INC., Long Island City, N. Y.
Filed April 5, 1928. Serial No. 264,351. PUBLISHED JUNE 5, 1928. Class 26.

245,729. PHONOGRAPHS. GEO. BORGFELDT & CO., New York, N. Y.
Filed April 5, 1928. Serial No. 264,347. PUBLISHED JUNE 12, 1928. Class 36.

245,730. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. AMERICAN PLATINUMSMITHS, New York, N. Y.
Filed April 5, 1928. Serial No. 264,344. PUBLISHED JUNE 5, 1928. Class 28.

245,731. SMOKING PIPES. WESTERN BRIAR PIPE COMPANY, Chicago, Ill.
Filed April 4, 1928. Serial No. 264,339. PUBLISHED JUNE 12, 1928. Class 8.

245,732. FLEXIBLE BRACELETS. SOMMER, BRAVERMAN & HARRIS, INC., Newark, N. J.
Filed April 4, 1928. Serial No. 264,330. PUBLISHED JUNE 5, 1928. Class 28.

245,733. RADIO LOUD SPEAKERS. FANSPEAKER RADIO CO., New York, N. Y.
Filed April 4, 1928. Serial No. 264,293. PUBLISHED JUNE 12, 1928. Class 21.

245,734. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS, EXTRACTS, AND CONCENTRATES FOR MAKING THE SAME. CUPIE EXTRACT COMPANY, Paris, Tenn.
Filed April 4, 1928. Serial No. 264,291. PUBLISHED JUNE 5, 1928. Class 45.

245,735. PIECE GOODS OF LINEN, COTTON, WOOL, SILK, RAYON, AND COMBINATIONS THEREOF. FRED BUTTERFIELD & CO. INC., New York, N. Y.
Filed April 4, 1928. Serial No. 264,279. PUBLISHED JUNE 5, 1928. Class 42.

245,736. TITLE TO A MAGAZINE PUBLISHED FROM TIME TO TIME. THIRTY FOURTH STREET-MIDTOWN ASSOCIATION, INC., New York, N. Y.
Filed April 3, 1928. Serial No. 264,265. PUBLISHED JUNE 5, 1928. Class 38.

245,737. PERAMBULATORS. LINES BROTHERS LIMITED, London, England.
Filed April 13, 1928. Serial No. 264,763. PUBLISHED JUNE 5, 1928. Class 19.

245,738. NONALCOHOLIC, MALT BEVERAGE. MANITOWOC PRODUCTS COMPANY, Manitowoc, Wis.
Filed April 12, 1928. Serial No. 264,728. PUBLISHED JUNE 12, 1928. Class 48.

245,739. MAGAZINE HAVING A MONTHLY ISSUE. STYLE IDEAS PUBLISHING COMPANY, New York, N. Y.
Filed April 11, 1928. Serial No. 264,706. PUBLISHED JUNE 12, 1928. Class 38.

245,740. CANNED CLAM CHOWDER. SILZ PACKING COMPANY, INC., New York, N. Y.
Filed April 11, 1928. Serial No. 264,705. PUBLISHED JUNE 12, 1928. Class 46.

245,741. TOILET SOAP, LAUNDRY SOAP, SOAP CHIPS, SOAP POWDER, SCOURING SOAP, METAL AND GLASS POLISH IN PASTE AND LIQUID FORM, CLEANSERS IN POWDERED FORM FOR SCRUBBING AND CLEANSING. SERVICE GROCER COMPANY, INC., Detroit, Mich.
Filed April 11, 1928. Serial No. 264,703. PUBLISHED JUNE 12, 1928. Class 4.

245,742. COTTON PIECE GOODS AND LINEN PIECE GOODS. TRIPPE, BARKER & CO., New York, N. Y.
Filed April 6, 1928. Serial No. 264,485. PUBLISHED JUNE 5, 1928. Class 42.

245,743. HACK-SAW BLADES. PYRAMID HACK SAW COMPANY, Portland, Oreg.
Filed April 6, 1928. Serial No. 264,478. PUBLISHED JUNE 12, 1928. Class 23.

245,744. PRINTING INKS. PANTONE PROCESSES LIMITED, London, England.
Filed April 6, 1928. Serial No. 264,477. PUBLISHED JUNE 5, 1928. Class 11.

245,745. WRAPPING PAPER COMMONLY EMPLOYED FOR WRAPPING PURPOSES. GRAHAM PAPER COMPANY, St. Louis, Mo.
Filed April 11, 1928. Serial No. 264,680. PUBLISHED JUNE 5, 1928. Class 37.

245,746. RAZORS. FRED DOLLE, INC., Chicago, Ill.
Filed April 11, 1928. Serial No. 264,674. PUBLISHED JUNE 5, 1928. Class 23.

245,747. PAPER SACKS. BEMIS BRO. BAG COMPANY, St. Louis, Mo.
Filed April 11, 1928. Serial No. 264,667. PUBLISHED JUNE 12, 1928. Class 2.

245,748. BEDSPREADS MADE OF COTTON AND OF COTTON AND RAYON MIXTURES. STEVENS MANUFACTURING CO., Fall River, Mass.
Filed April 7, 1928. Serial No. 264,539. PUBLISHED JUNE 5, 1928. Class 42.

245,749. LAWN SPRINKLERS. FRED I. JADEN, doing business as F. Jaden Manufacturing Co., Hastings, Nebr.
Filed April 7, 1928. Serial No. 264,518. PUBLISHED JUNE 12, 1928. Class 13.

245,750. CHOCOLATES AND BONBONS. J. WILBUR WARNER, doing business as Home Chocolate Shop, Frederick, Md.
Filed April 10, 1928. Serial No. 264,664. PUBLISHED JUNE 5, 1928. Class 46.

245,751. PYROPHORIC CIGAR AND CIGARETTE LIGHTERS. MAX REICHBLUM, New York, N. Y.
Filed April 10, 1928. Serial No. 264,657. PUBLISHED JUNE 12, 1928. Class 34.

245,752. BASEBALL SCORE BOOKS, BASKET-BALL SCORE BOOKS. A. J. REACH COMPANY, Philadelphia, Pa.
Filed April 10, 1928. Serial No. 264,654. PUBLISHED JUNE 5, 1928. Class 37.

245,753. MOUNTED AND UNMOUNTED PHOTOGRAPHS AND PHOTOGRAPHIC PRINTS. KENNETH C. BARCLAY, Spokane, Wash.
Filed April 10, 1928. Serial No. 264,631. PUBLISHED JUNE 5, 1928. Class 38.

245,754. FILING-SYSTEM PRINTED CARDS ISSUED WEEKLY. THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS, New York, N. Y.
Filed April 10, 1928. Serial No. 264,630. PUBLISHED JUNE 5, 1928. Class 38.

245,755. TITLE OF A HOUSE ORGAN. PIGGLY WIGGLY CORPORATION, Memphis, Tenn.
Filed April 9, 1928. Serial No. 264,604. PUBLISHED JUNE 5, 1928. Class 38.

245,756. FERTILIZER. EASTERN COTTON OIL COMPANY, Norfolk, Va.
Filed April 9, 1928. Serial No. 264,569. PUBLISHED JUNE 12, 1928. Class 10.

245,757. PRINTING INKS. PANTONE PROCESSES LIMITED, London, England.
Filed April 6, 1928. Serial No. 264,474. PUBLISHED JUNE 5, 1928. Class 11.

245,758. CANNED SHRIMP AND CANNED OYSTERS. C. B. FOSTER PACKING CO. INC., also doing business as Latimer Packing Co., Biloxi, Miss.
Filed April 7, 1928. Serial No. 264,513. PUBLISHED JUNE 5, 1928. Class 46.

245,759. ABRASIVE GRINDING WHEELS. PRECISION GRINDING WHEEL COMPANY, INCORPORATED, Philadelphia, Pa.
Filed April 3, 1928. Serial No. 264,259. PUBLISHED JUNE 5, 1928. Class 4.

245,760. ABRASIVE GRINDING WHEELS. PRECISION GRINDING WHEEL COMPANY, INCORPORATED, Philadelphia, Pa.
Filed April 3, 1928. Serial No. 264,258. PUBLISHED JUNE 5, 1928. Class 4.

245,761. CANDY. JOHN T. HOHBERGER, doing business as Hohberger Manufacturing Co., (Not Inc.), Chicago, Ill.
Filed April 3, 1928. Serial No. 264,234. PUBLISHED JUNE 5, 1928. Class 46.

245,762. FIREPLACES. ROY C. ZORNES, doing business as Nu-Heat Company, Wilmington, Calif.
Filed April 2, 1928. Serial No. 264,218. PUBLISHED JUNE 12, 1928. Class 34.

245,763. AUTOMOBILE TIRE CHAINS. F. C. WEST CORPORATION, Chicago, Ill.
Filed April 2, 1928. Serial No. 264,213. PUBLISHED JUNE 5, 1928. Class 13.

245,764. METALLIC BINS AND METALLIC RECEPTACLES ADAPTED TO RECEIVE VEGETABLES AND THE LIKE, WHICH BINS AND RECEPTACLES ARE OF ALL-STEEL CONSTRUCTION WITH OR WITHOUT DOORS. ALBERT H. LEVENE, doing business as Steel Utilities Company, Jersey City, N. J.
Filed April 2, 1928. Serial No. 264,172. PUBLISHED JUNE 12, 1928. Class 2.

245,765. SYSTEMS OF BURGLAR AND FIRE ALARMS. CLARENCE C. KLENTZ, doing business as Klentz Manufacturing Company, (Not Inc.), Chicago, Ill.
Filed April 2, 1928. Serial No. 264,169. PUBLISHED JUNE 12, 1928. Class 21.

245,766. STRAW-MATTING COVERINGS FOR VEHICLE SEATS. HARRY J. JOACHIM, St. Louis, Mo.
Filed April 2, 1928. Serial No. 264,168. PUBLISHED JUNE 12, 1928. Class 19.

245,767. NONALCOHOLIC, CEREAL, MALT BEVERAGES. INDEPENDENT PRODUCTS COMPANY, Davenport, Iowa.
Filed April 2, 1928. Serial No. 264,166. PUBLISHED JUNE 5, 1928. Class 48.

245,768. SERIALLY-ISSUED MOTION-PICTURE FILMS. ARTHUR J. FLAVEN, Los Angeles, Calif.
Filed April 2, 1928. Serial No. 264,159. PUBLISHED JUNE 12, 1928. Class 26.

245,769. TROWELS OF ALL KINDS, INCLUDING PLASTERING TROWELS AND CEMENT TROWELS. E. C. ATKINS & COMPANY, Indianapolis, Ind.
Filed April 2, 1928. Serial No. 264,134. PUBLISHED JUNE 12, 1928. Class 23.

245,770. TEXTILE CARPETS AND RUGS. HARDWICK & MAGEE COMPANY, Philadelphia, Pa.
Filed March 31, 1928. Serial No. 264,099. PUBLISHED JUNE 5, 1928. Class 42.

245,771. MANUFACTURED JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. LOUIS GRATZ SONS, INC., New York, N. Y.
Filed March 31, 1928. Serial No. 264,096. PUBLISHED JUNE 12, 1928. Class 28.

245,772. HAND RAKES. EASTERN TOOL & MFG. CO., Bloomfield, N. J.
Filed March 31, 1928. Serial No. 264,090. PUBLISHED JUNE 5, 1928. Class 23.

245,773. BARN AND STABLE EQUIPMENT—NAMELY, CARRIERS FOR BARNS AND STABLES. DREW LINE COMPANY, Fort Atkinson, Wis.
Filed March 31, 1928. Serial No. 264,087. PUBLISHED JUNE 5, 1928. Class 23.

245,774. BARN AND STABLE EQUIPMENT AND EQUIPMENT FOR CHICKEN HOUSES, HOGPENS, AND OTHER FARM OUTBUILDINGS—NAMELY, METAL MANGERS AND DRINKING CUPS WITHOUT SUPPLY-PIPE CONNECTIONS AND CONTROLLING ACCESSORIES. DREW LINE COMPANY, Fort Atkinson, Wis.
Filed March 31, 1928. Serial No. 264,086. PUBLISHED JUNE 5, 1928. Class 2.

245,775. GRAVITY-OPERATED VENTILATING APPARATUS IN BARNS, POULTRY AND HOG HOUSES, AND OTHER FARM AND FACTORY BUILDINGS AND FOR INCUBATOR AND BROODER STOVES USING SOLID OR HYDROCARBON FUELS. DREW LINE COMPANY, Fort Atkinson, Wis.
Filed March 31, 1928. Serial No. 264,085. PUBLISHED JUNE 12, 1928. Class 34.

245,776. INKING RIBBONS AND CARBON PAPER. F. S. WEBSTER COMPANY, Boston, Mass.
Filed March 30, 1928. Serial No. 264,062. PUBLISHED JUNE 5, 1928. Class 11.

245,777. GINGER ALE. LIVITI WATER CORPORATION, Pasadena, Calif.
Filed March 30, 1928. Serial No. 264,032. PUBLISHED JUNE 5, 1928. Class 45.

245,778. CIGARS. CORRAL WODISKA Y CO., Tampa, Fla.
Filed March 30, 1928. Serial No. 264,020. PUBLISHED JUNE 5, 1928. Class 17.

245,779. MEDICINE USED AS ANTIMIGRAINE, FEBRIFUGE, AND ANTIRHEUMATIC. THOMAS A HAUGHTON, Birmingham, Ala.
Filed May 1, 1928. Serial No. 265,724. PUBLISHED JUNE 12, 1928. Class 6.

245,780. VENTILATING APPARATUS OF THE TYPE COMPRISING A CASING HAVING INLET AND OUTLET OPENINGS AND A DRIVEN FAN IN THE CASING. LAKESIDE VENTILATING CO., Hermansville, Mich., assignor to Lakeside Company, Hermansville, Mich., a Corporation of Michigan.
Filed March 1, 1928. Serial No. 262,468. PUBLISHED JUNE 5, 1928. Class 34.

245,781. VENTILATING APPARATUS OF THE TYPE COMPRISING A CASING HAVING INLET AND OUTLET OPENINGS AND A DRIVEN FAN IN THE CASING. LAKESIDE VENTILATING CO., Hermansville, Mich., assignor to Lakeside Company, Hermansville, Mich., a Corporation of Michigan.
Filed March 1, 1928. Serial No. 262,467. PUBLISHED JUNE 12, 1928. Class 34.

245,782. ELECTRICAL MEASURING INSTRUMENTS INCLUDING DIRECT-CURRENT METERS, ALTERNATING-CURRENT METERS, SINGLE AND POLYPHASE METERS, WATT-HOUR METERS, WATTLESS COMPONENT METERS, AND KVA. METERS. LANDIS & GYR, A.-G., Zug, Switzerland.
Filed February 29, 1928. Serial No. 262,407. PUBLISHED JUNE 12, 1928. Class [illegible].

245,783. MATTRESSES. HESS MANUFACTURING COMPANY, Philadelphia, Pa.
Filed February 27, 1928. Serial No. 262,306. PUBLISHED JUNE 5, 1928. Class [illegible].

245,784. COFFEE. THE DAYTON SPICE MILLS COMPANY, Dayton, Ohio.
Filed February 25, 1928. Serial No. 262,213. PUBLISHED JUNE 12, 1928. Class 46.

245,785. FINGER RINGS. JACOB SEGAL & COMPANY, Detroit, Mich.
Filed February 24, 1928. Serial No. 262,182. PUBLISHED JUNE 5, 1928. Class 28.

245,786. GINGER ALE. PISTER-SHADEL CORPORATION, Orange, Calif.
Filed February 24, 1928. Serial No. 262,177. PUBLISHED JUNE 12, 1928. Class 45.

245,787. BOOK ENDS AND SMOKING STANDS. FRANKART, INC., New York, N. Y.
Filed February 24, 1928. Serial No. 262,165. PUBLISHED JUNE 12, 1928. Class 32.

245,788. JACKETED KETTLES. SOWERS MANUFACTURING COMPANY, Buffalo, N. Y.
Filed February 23, 1928. Serial No. 262,130. PUBLISHED JUNE 5, 1928. Class 13.

245,789. RETORTS, CALDRONS, TANKS, AND BOILERS FOR HEATING RUBBER, VARNISH, AND OTHER PRODUCTS FOR INDUSTRIAL PURPOSES. SOWERS MANUFACTURING COMPANY, Buffalo, N. Y.
Filed February 23, 1928. Serial No. 262,129. PUBLISHED JUNE 5, 1928. Class 34.

245,790. DOOR AND WINDOW HARDWARE—NAMELY, DOOR OPENERS, DOOR CLOSERS, DOOR CHECKS, DOOR AND WINDOW HINGES AND BUTTS, HINGE HASPS, DOOR AND WINDOW KNOBS AND HANDLES, DOOR HANGERS, GARAGE DOOR SETS, DOOR AND WINDOW ADJUSTERS, SKYLIGHT AND FANLIGHT ADJUSTERS, AND PARTS THEREOF. RHEINISCHE TURSCHLIESSER-FABRIK BOGE & KASTEN G. M. B. H., Solingen, Germany.
Filed February 23, 1928. Serial No. 262,121. PUBLISHED JUNE 5, 1928. Class 13.

245,791. BELTS AND BELTING SUCH AS ROUND BELTING, TWIST BELTING, FOLDED TWIST BELTING, BUILT-UP ROUND BELTING, V BELTING, LAMINATING V BELTING, BLOCK V BELTING, LINK V BELTING, AUTOMOBILE FAN BELTING, AND SHAFTING RINGS, DIAPHRAGMS, DISCS, GASKETS, WASHERS, AND PACKING, ALL OF LEATHER. GRATON & KNIGHT COMPANY, Worcester, Mass.
Filed February 20, 1928. Serial No. 261,958. PUBLISHED JUNE 5, 1928. Class 35.

245,792. FRESH VEGETABLES, FRESH CANTALOUPES, FRESH DECIDUOUS FRUITS, AND FRESH CITRUS FRUITS. J. E. COSGROVE FRUIT CO., Phoenix, Ariz.
Filed February 20, 1928. Serial No. 261,944. PUBLISHED JUNE 5, 1928. Class 46.

245,793. SPRAY GUNS. GEORGE SACHSENMAIER CO., Philadelphia, Pa.
Filed February 18, 1928. Serial No. 261,912. PUBLISHED JUNE 5, 1928. Class 23.

245,794. CANNED KIPPERED HERRING, KIPPERED SNACKS, AND SMOKED SARDINES. A/S HERMETIKFABRIKEN "NORRIG", Stavanger, Norway.
Filed February 17, 1928. Serial No. 261,781. PUBLISHED JUNE 12, 1928. Class 46.

245,795. BLOTTING PAPER. ROCHESTER PAPER CO., Rochester, Mich.
Filed February 16, 1928. Serial No. 261,769. PUBLISHED JUNE 5, 1928. Class 37.

245,796. GAS COOKING STOVES AND PARTS THEREOF. THE UNION STOVE WORKS, Peekskill, N. Y.
Filed February 14, 1928. Serial No. 261,687. PUBLISHED JUNE 12, 1928. Class 34.

245,797. GOLD AND PLATINUM, ENAMELLED AND JEWELLED NOVELTIES CONSISTING OF CRYSTAL FEATHERS, DOG BROOCHES, POWDER BOXES, LIP STICK CASES, LADIES' CIGARETTE BOXES, LADIES' CIGARETTE CASES AND LADIES' CIGARETTE CASES WITH VANITIES COMBINED, AND DIAMOND JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. ALFRED J. CASSE & CO. INC., New York, N. Y.
Filed February 10, 1928. Serial No. 261,485. PUBLISHED JUNE 5, 1928. Class 28.

245,798. OILCLOTH AND OILCLOTH TABLE COVERS THE STANDARD TEXTILE PRODUCTS COMPANY, New York, N. Y.
Filed February 8, 1928. Serial No. 261,399. PUBLISHED JUNE 5, 1928. Class 20.

245,799. KNITTED FABRIC COMPOSED OF COTTON AND ARTIFICIAL SILK. LEHIGH FABRIC CORPORATION, New York, N. Y.
Filed February 6, 1928. Serial No. 261,267. PUBLISHED JUNE 12, 1928. Class 42.

245,800. PUBLICATION ISSUED MONTHLY. BRISTOL & WILLETT, New York, N. Y.
Filed May 5, 1928. Serial No. 265,945. PUBLISHED JUNE 12, 1928. Class 38.

245,801. DAILY PUBLICATION. THE JEWISH TRADES PUBLISHING CO., INC., New York, N. Y.
Filed May 4, 1928. Serial No. 265,908. PUBLISHED JUNE 12, 1928. Class 38.

245,802. NEWSPAPERS (WEEKLY). BISHARD BROTHERS, Des Moines, Iowa.
Filed May 4, 1928. Serial No. 265,883. PUBLISHED JUNE 12, 1928. Class 38.

245,803. PILE FABRICS—VIZ, VELVETS AND PLUSHES. WM. OPENHYM & SONS, New York, N. Y.
Filed May 3, 1928. Serial No. 265,853. PUBLISHED JUNE 12, 1928. Class 42.

245,804. NEWSPAPER ARTICLES. JOHN P. CLUETT, Troy, N. Y.
Filed May 3, 1928. Serial No. 265,829. PUBLISHED JUNE 12, 1928. Class 38.

245,805. SIFTING AND SCREENING APPARATUS FOR SUBSTANCES OF ALL KINDS, PARTICULARLY FOR FLOUR, STARCHES, PIGMENTS, CHALK, ZINC OXIDE, SOAP POWDER, POWDERED CARBON, LIME, CEMENTS, PLASTERS, CARBONATES OF SODA, SILICA, CHINA CLAYS, AND ARGILLACEOUS MATERIAL. BLUTERGESS, Paris, France.
Filed May 3, 1928. Serial No. 265,828. PUBLISHED JUNE 12, 1928. Class 23.

245,806. ART POTTERY. WHITE CLOUD FARMS, INCORPORATED, Rock Tavern, N. Y.
Filed May 2, 1928. Serial No. 265,819. PUBLISHED JUNE 12, 1928. Class 30.

245,807. SERIES OF NEW YORK LAW DIGEST AND QUARTERLY SUPPLEMENTS. THE LAWYERS COOPERATIVE PUBLISHING COMPANY, Rochester, N. Y.
Filed May 2, 1928. Serial No. 265,798. PUBLISHED JUNE 12, 1928. Class 38.

245,808. DISTILLED WATER, TABLE WATER, AND CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. BAILIS BROTHERS, Mount Vernon, N. Y.
Filed May 2, 1928. Serial No. 265,772. PUBLISHED JUNE 12, 1928. Class 45.

245,809. CARPENTERS' TOOLS—NAMELY, AUGER BITS, AXES, BACKSAWS, BRACES, BREAST DRILLS, CHISELS, FILES, HACK SAWS, HANDSAWS, HAMMERS, HATCHETS, PLANES, PLIERS, TAP AND DIE SETS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed April 30, 1928. Serial No. 265,696. PUBLISHED JUNE 12, 1928. Class 23.

245,810. INTERNAL-COMBUSTION MOTORS. CURTISS AEROPLANE AND MOTOR COMPANY, INC., Garden City and Buffalo, N. Y.
Filed April 30, 1928. Serial No. 265,624. PUBLISHED JUNE 12, 1928. Class 23.

245,811. HOUSE ORGAN ISSUED PERIODICALLY. G. W. CARNRICK CO., New York, N. Y.
Filed April 30, 1928. Serial No. 265,616. PUBLISHED JUNE 12, 1928. Class 38.

245,812. FRESH LETTUCE. WESTERN VEGETABLE DISTRIBUTORS, Denver, Colo.
Filed April 28, 1928. Serial No. 265,595. PUBLISHED JUNE 12, 1928. Class 46.

245,813. CANNED GRAPEFRUIT. WEST COAST FRUIT COMPANY, Clearwater, Fla.
Filed April 28, 1928. Serial No. 265,594. PUBLISHED JUNE 12, 1928. Class 46.

245,814. FRESH CITRUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT. S. & O. PRODUCE CO., Los Angeles, Calif.
Filed April 28, 1928. Serial No. 265,574. PUBLISHED JUNE 12, 1928. Class 46.

245,815. FOR COMIC CARTOONS. DON HEROLD, Pasadena, Calif.
Filed April 28, 1928. Serial No. 265,541. PUBLISHED JUNE 12, 1928. Class 38.

245,816. PERIODICAL. THE BASEBALL WORLD, INC., Chicago, Ill.
Filed April 28, 1928. Serial No. 265,514. PUBLISHED JUNE 12, 1928. Class 38.

245,817. INSIDE TIRE PROTECTORS, OUTSIDE TIRE PROTECTORS, PORTABLE TIRE AND TUBE REPAIR OUTFITS, AND REPAIR PATCHES AND BANDAGES. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed April 27, 1928. Serial No. 265,473. PUBLISHED JUNE 12, 1928. Class 35.

245,818. GEARS. CHARLES BOND COMPANY, Philadelphia, Pa.
Filed April 27, 1928. Serial No. 265,464. PUBLISHED JUNE 12, 1928. Class 23.

245,819. MOTION-PICTURE FILMS PRODUCED AND SOLD SERIALLY. F B O PRODUCTIONS INC., New York, N. Y.
Filed January 28, 1928. Serial No. 260,815. PUBLISHED JUNE 12, 1928. Class 26.

245,820. SPECTACLES AND GOGGLES. STANDARD OPTICAL EXPORT CORP., New York, N. Y.
Filed April 15, 1927. Serial No. 247,498. PUBLISHED JUNE 5, 1928. Class 26.

245,821. RUBBER STAMPS AND RUBBER TYPE. R. D. SWISHER MFG. CO., Chicago, Ill.
Filed April 11, 1927. Serial No. 247,297. PUBLISHED JUNE 5, 1928. Class 37.

245,822. PRICE CARDS OR TICKETS, WINDOW DISPLAY CARDS, POSTERS, SHOW CARDS, BANNERS AND STREAMERS, AND PRINTED CIRCULARS. ALLIED DRUG STORES, INC., Chicago, Ill.
Filed June 20, 1927. Serial No. 250,781. PUBLISHED JUNE 5, 1928. Class 38.

245,823. CERTIFICATES. BENJAMIN ANSEHL, doing business as Benjamin Leland & Company, St. Louis, Mo.
Filed May 16, 1927. Serial No. 249,034. PUBLISHED JUNE 5, 1928. Class 38.

245,824. WOOLEN PIECE GOODS—NAMELY, WOOLEN DRESS FABRICS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed April 29, 1927. Serial No. 248,169. PUBLISHED JUNE 12, 1928. Class 42.

245,825. SILK RIBBONS. SOCIÉTÉ ANONYME UNION RUBANIERE, St. Etienne, France.
Filed July 30, 1927. Serial No. 252,799. PUBLISHED JUNE 12, 1928. Class 42.

245,826. PORK HAMS, BACON. BONELESS BUTTS, BEEF HAMS, MEAT LOAVES; CANNED MEATS—NAMELY, CORNED BEEF, CORNED-BEEF HASH, AND SANDWICH SPREAD; AND VINEGAR-PICKLED PRODUCTS: BONELESS PIG'S FEET, SLICED HEARTS, PICKLED SNOUTS, AND LAMB'S TONGUE. ALLIED PACKERS INCORPORATED, Chicago, Ill.
Filed May 20, 1925. Serial No. 214,573. PUBLISHED JUNE 5, 1928. Class 46.

245,827. FRUIT JELLIES AND FRUIT PRESERVES. MRS. G. L. HARTING, INC., Philadelphia, Pa.
Filed April 27, 1925. Serial No. 213,377. PUBLISHED FEBRUARY 7, 1928. Class 46.

245,828. FRESH DECIDUOUS FRUITS AND DRIED FRUITS. SOUTHERN OREGON SALES, INC., Medford, Oreg.
Filed August 23, 1926. Serial No. 236,344. PUBLISHED JANUARY 17, 1928. Class 46.

245,829. CANNED FRUITS, CANNED VEGETABLES, AND CANNED FISH. SOUTH CHICAGO WHOLESALE GROCERY, South Chicago, Ill.
Filed February 10, 1927. Serial No. 244,189. PUBLISHED JUNE 5, 1928. Class 46.

245,830. PREPARED OR PRESERVED MEATS IN TINS OR JARS—NAMELY, CORNED BEEF, POTTED BEEF, BRAISED BEEF, BEEF COLLOPS, PRESSED BEEF, ROAST BEEF, ROLLED BEEF, TONGUES, MEAT EXTRACTS, MEAT-EXTRACT CUBES AND CUBES FOR MAKING SOUPS, BEEF TEA, EDIBLE FATS, CANNED SOUPS, CANNED VEGETABLES, CANNED FRUITS, AND CANNED FISH. Oxo LIMITED, London, England.
Filed March 26, 1927. Serial No. 246,429. PUBLISHED JUNE 12, 1928. Class 46.

245,831. CANDY. AMERICAN CARAMEL COMPANY, York, Pa.
Filed April 29, 1927. Serial No. 248,145. PUBLISHED JUNE 5, 1928. Class 46.

245,832. FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT. POMONA FRUIT GROWERS EXCHANGE, Pomona, Calif.
Filed July 13, 1927. Serial No. 251,986. PUBLISHED FEBRUARY 14, 1928. Class 46.

245,833. CANDY. JOHN IDE WEBBER, Winona, Minn.
Filed July 7, 1927. Serial No. 251,638. PUBLISHED JUNE 5, 1928. Class 46.

245,834. FISH—NAMELY, FRESH FISH, CANNED FISH, DRIED FISH, AND SMOKED FISH. GEORGE ROBINSON AND SONS, Sneinton, England.
Filed June 2, 1927. Serial No. 249,924. PUBLISHED JUNE 5, 1928. Class 46.

245,835. CANNED CLAM BROTH. THE DONSEE COMPANY, INC., Brooklyn, N. Y.
Filed January 26, 1928. Serial No. 260,676. PUBLISHED JUNE 12, 1928. Class 46.

245,836. CANNED VEGETABLES. FRIDAY CANNING CORPORATION, New Richmond, Wis.
Filed January 28, 1928. Serial No. 260,818. PUBLISHED JUNE 12, 1928. Class 46.

245,837. CANNED FRUITS AND VEGETABLES AND DRIED FRUITS. SALINAS VALLEY CANNING CO., Salinas, Calif.
Filed April 25, 1927. Serial No. 247,973. PUBLISHED JANUARY 10, 1928. Class 46.

245,838. WHISKY, BRANDY, AND GIN. WERNER SCHLICHTE, doing business as H. W. Schlichte, Westphalia, Germany.
Filed February 16, 1927. Serial No. 244,474. PUBLISHED JUNE 5, 1928. Class 49.

245,839. PERIODICAL. UNIVERSITY PRESS: JOHN WILSON & SONS, INCORPORATED, Cambridge, Mass.
Filed March 16, 1928. Serial No. 263,293. PUBLISHED JUNE 5, 1928. Class 38.

245,840. FINGER RINGS. CALIFORNIA JEWELRY & NOVELTY CO., Chicago, Ill.
Filed March 16, 1928. Serial No. 263,255. PUBLISHED JUNE 12, 1928. Class 28.

245,841. GASOLINE. SHERWOOD BROS., INC., Baltimore, Md.
Filed March 14, 1928. Serial No. 263,178. PUBLISHED JUNE 5, 1928. Class 15.

245,842. CANNED SARDINES. CHR. BJELLAND & CO. A/S, Stavanger, Norway.
Filed March 14, 1928. Serial No. 263,125. PUBLISHED JUNE 12, 1928. Class 46.

245,843. METAL-COATED PAPER USED PARTICULARLY IN THE CONSTRUCTION OF ELECTRICAL CONDENSERS. BRITTAINS, LIMITED, Cheddleton, near Leek, England.
Filed March 14, 1928. Serial No. 263,123. PUBLISHED MARCH 5, 1928. Class 21.

245,844. CHOCOLATE DRINK, A NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK, AND SYRUPS AND EXTRACTS FOR MAKING THE SAME. THREEMOR CHOCOLATE CORPORATION, Eatontown, N. J.
Filed March 13, 1928. Serial No. 263,107. PUBLISHED JUNE 5, 1928. Class 45.

245,845. CHOCOLATE AND CHOCOLATE NUT CANDIES. PLYMOUTH ROCK CANDY COMPANY, Boston, Mass.
Filed March 13, 1928. Serial No. 263,100. PUBLISHED JUNE 12, 1928. Class 46.

245,846. CYMBALS. THE FRED. GRETSCH MFG. CO., New York, N. Y.
Filed March 13, 1928. Serial No. 263,082. PUBLISHED JUNE 12, 1928. Class 36.

245,847. HOSIERY. ELLIOTT KNITTING MILLS, INC., Hickory, N. C.
Filed March 13, 1928. Serial No. 263,077. PUBLISHED MAY 1, 1928. Class 39.

245,848. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. TENEN BROS., New York, N. Y.
Filed March 12, 1928. Serial No. 263,056. PUBLISHED JUNE 12, 1928. Class 28.

245,849. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. STEIN & KOSLOW, New York, N. Y.
Filed March 12, 1928. Serial No. 263,053. PUBLISHED JUNE 12, 1928. Class 28.

245,850. FLAVORING EXTRACTS AND CONCENTRATED SYRUPS FOR MAKING SODA WATER AND OTHER NONALCOHOLIC BEVERAGES, PARTICULARLY FOR ROOT BEER. J. F. LAZIER MANUFACTURING CO., INC., St. Louis, Mo.
Filed March 10, 1928. Serial No. 262,921. PUBLISHED JUNE 5, 1928. Class 45.

245,851. FLAVORING EXTRACTS AND CONCENTRATED SYRUPS FOR MAKING SODA WATER AND OTHER NONALCOHOLIC BEVERAGES, PARTICULARLY FOR ORANGE BEVERAGE. J. F. LAZIER MANUFACTURING CO., INC., St. Louis, Mo.
Filed March 10, 1928. Serial No. 262,920. PUBLISHED JUNE 5, 1928. Class 45.

245,852. TELEPHONE-RECEIVER SUPPORTS. CONVENIENCE PRODUCTS CORPORATION, Chicago, Ill.
Filed March 10, 1928. Serial No. 262,899. PUBLISHED JUNE 5, 1928. Class 21.

245,853. REFRIGERATOR DISPLAY CASES NOT EMBODYING REFRIGERATING APPARATUS WHEN SOLD, BUT ADAPTED TO RECEIVE SUCH APPARATUS. A. C. WICKE MANUFACTURING COMPANY, New York, N. Y.
Filed March 8, 1928. Serial No. 262,832. PUBLISHED JUNE 12, 1928. Class 32.

245,854. OPHTHALMASCOPES, RETINOSCOPES, AND AN INSTRUMENT BY WHICH THE EYES MAY BE EXAMINED, TESTED, AND THE OPTICAL FIELDS MEASURED AND CHARTED, AND SAID STRUCTURE MAY BE OPERATED TO PROJECT A SPOT OF LIGHT UPON A SCREEN AND TO CHANGE SAID SPOT FOR THE PURPOSE OF EXERCISING THE EYES. WILLIAM J. CAMERON, doing business as Cameron's Surgical Specialty Co. (Not Inc.), Chicago, Ill.
Filed March 8, 1928. Serial No. 262,798. PUBLISHED JUNE 12, 1928. Class 26.

245,855. PNEUMATIC TIRES AND INNER TUBES, ETC. THE MILLER RUBBER COMPANY, Akron, Ohio.
Filed March 6, 1928. Serial No. 262,670. PUBLISHED JUNE 5, 1928. Class 35.

245,856. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SIRUPS, EXTRACTS, AND CONCENTRATES FOR MAKING THE SAME. FINKENSTADT & KAUFMANN, INC., Long Island City, N. Y.
Filed March 6, 1928. Serial No. 262,661. PUBLISHED JUNE 5, 1928. Class 45.

245,857. CIGARS, CIGARETTES, AND CUT TOBACCO. C. DEL PESO Y COMPAÑIA, Habana, Cuba.
Filed March 5, 1928. Serial No. 262,600. PUBLISHED JUNE 12, 1928. Class 17.

245,858. PASTELIKE PREPARATION FOR SHAVING WITH INCIDENTAL SKIN-HEALING PROPERTIES. THE BARBASOL COMPANY, Indianapolis, Ind.
Filed February 28, 1928. Serial No. 262,347. PUBLISHED JUNE 5, 1928. Class 4.

245,859. TYPEWRITER INK, TYPEWRITER RIBBONS, SHEETS, PADS, AND ROLLERS FOR INKING TYPEWRITERS, ADDING MACHINES, ADDRESSOGRAPHS, CASH REGISTERS, AND CHECK PROTECTORS. W. H. YOUNG CORPORATION, Chicago, Ill.
Filed January 23, 1926. Serial No. 226,323. PUBLISHED JUNE 5, 1928. Class 11.

245,860. ABRASIVE ARTICLES AND COMPOUNDS COMPRISING PREPARED ABRASIVE GRAINS AND POWDERS; ABRASIVE PAPER AND CLOTH IN THE FORM OF SHEETS, ROLLS, PADS, DISCS, STRIPS, COILS, AND SPECIAL SHAPES; ABRASIVE WHEELS OF ALL KINDS, ABRASIVE-WHEEL SEGMENTS, ABRASIVE DISCS AND CONES; MOLDED ABRASIVE ARTICLES COMPRISING BLOCKS, BRICKS, STONES, SCYTHE STONES, SHARPENING STONES OF VARIOUS SHAPES, HONES, STROPS, BONDED ABRASIVE STICKS WITH AND WITHOUT HANDLES, STRIPS OF BONDED ABRASIVE MATERIAL HAVING A METAL REINFORCEMENT ALONG ONE EDGE FOR DRESSING CONTACT POINTS AND FOR OTHER FINE ABRASIVE OPERATIONS, ABRASIVE INSERT STONES OF TOOTH FORM, ABRASIVE POINTS, PIN WHEELS, COMBINATION PAPER, BREASTING PAPER, WATERPROOF ABRASIVE PAPER AND CLOTH, AND BELTS HAVING ABRASIVE MATERIAL ON THE OUTSIDE SURFACE THEREOF FOR USE IN SANDING MACHINES. THE CARBORUNDUM COMPANY, Niagara Falls, N. Y.
Filed May 10, 1927. Serial No. 248,754. PUBLISHED JUNE 5, 1928. Class 4.

245,861. POLISHING COMPOUNDS ESPECIALLY SUITED FOR FINISHED METAL SURFACES. STEWART-WARNER SPEEDOMETER CORPORATION, Chicago, Ill.
Filed January 25, 1928. Serial No. 260,660. PUBLISHED JUNE 5, 1928. Class 4.

245,862. PASTEBOARD BOXES OR CARTONS. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass.
Filed July 8, 1927. Serial No. 251,668. PUBLISHED JUNE 12, 1928. Class 2.

245,863. ELECTRICAL ADVERTISING SIGNS. ADSIGN CORPORATION, New York, N. Y.
Filed May 21, 1927. Serial No. 249,318. PUBLISHED JUNE 5, 1928. Class 21.

245,864. RADIO RECEIVING SETS. KING MANUFACTURING CORPORATION, Buffalo, N. Y.
Filed March 15, 1927. Serial No. 245,793. PUBLISHED JUNE 5, 1928. Class 21.

245,865. VEHICLES OR CARS, AND MORE PARTICULARLY FOR SMALL ELECTRIC LOCOMOTIVES FOR USE IN MINES. MORGAN-GARDNER ELECTRIC COMPANY, Harvey, Ill.
Filed March 14, 1927. Serial No. 245,743. PUBLISHED JUNE 12, 1928. Class 21.

245,866. ELECTRIC LAUNDRY IRONS, ELECTRIC-SAD-IRON SUPPORTS, ELECTRIC FRYING PANS, ELECTRIC WAFFLE IRONS, ELECTRIC HOT PLATES, ELECTRIC WATER HEATERS, ELECTRIC SWITCHES, ELECTRIC HEATERS FOR STEERING WHEELS, AND ELECTRIC GLUEPOTS. UNIVERSAL APPLIANCE, INC., Minneapolis, Minn., assignor to Rite-Hete Appliance, Inc., Minneapolis, Minn.
Filed June 20, 1927. Serial No. 250,827. PUBLISHED JUNE 12, 1928. Class 21.

245,867. PLATINUM JEWELRY AND PLATINUM-ALLOY JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES; PLATINUM RINGS; PLATINUM-ALLOY RINGS AND ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES, MADE OF GOLD AND GOLD ALLOY WITH PLATINUM AND PLATINUM ALLOY APPLIED THERETO. I. STERN & CO., New York, N. Y.
Filed January 30, 1928. Serial No. 260,921. PUBLISHED JUNE 5, 1928. Class 28.

245,868. MACHINERY FOR USE IN THE MANUFACTURE OF BOOTS AND SHOES OR PARTS THEREOF, MACHINERY FOR CUTTING OR TRIMMING PARTS OF BOOTS AND SHOES, MACHINERY FOR CUTTING OR TRIMMING LEATHER, MACHINERY FOR GRINDING OR SHARPENING TOOLS AND KNIVES. UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass.
Filed July 15, 1927. Serial No. 252,131. PUBLISHED JUNE 5, 1928. Class 23.

245,869. CONVEYING MACHINERY AND PARTS THEREOF. THE JEFFREY MANUFACTURING CO., Columbus, Ohio.
Filed April 4, 1927. Serial No. 246,908. PUBLISHED JUNE 5, 1928. Class 23.

245,870. CONVEYING MACHINERY AND PARTS THEREOF. THE JEFFREY MANUFACTURING CO., Columbus, Ohio.
Filed April 4, 1927. Serial No. 246,907. PUBLISHED JUNE 5, 1928. Class 23.

245,871. PLIERS. JOSEPH A. PETERSON, doing business as The Gearench Manufacturing Company, College Station, Tex.
Filed September 3, 1926. Serial No. 236,849. PUBLISHED JUNE 12, 1928. Class 23.

245,872. SENSITIZED PHOTOGRAPHIC PAPERS. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main and Berlin, Germany.
Filed February 1, 1928. Serial No. 260,991. PUBLISHED JUNE 12, 1928. Class 26.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

245,873. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY A. RUGGIERI, doing business as Lindy-Pop Products Co., New Haven, Conn. Filed Mar. 16, 1928. Serial No. 263,287.

LINDY-POP

For Confectionery in the Form of a Portion of Ice Cream Coated with Chocolate and Mounted on a Stick.
Claims use since July 3, 1927.

245,874. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KEARNEY & TRECKER, West Allis, Wis. Filed Jan. 23, 1928. Serial No. 260,506.

MILWAUKEE

For Milling Machine.
Claims use since 1899.

245,875. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KEARNEY & TRECKER, West Allis, Wis. Filed Jan. 23, 1928. Serial No. 260,505.

KEARNEY & TRECKER

For Milling Machines.
Claims use since 1898.

245,876. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE VULCAN LAST COMPANY, doing business as Vulcan Golf Company, Portsmouth, Ohio. Filed Dec. 2, 1927. Serial No. 258,379.

Berwick

For Golf Clubs.
Claims use since June 14, 1927.

245,877. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FORT WORTH WELL MACHINERY & SUPPLY COMPANY, Fort Worth, Tex. Filed Feb. 28, 1927. Serial No. 244,998.

FORTWORTHSPUDDERS

For Well-Drilling Machines or Spudders.
Claims use since on or about Dec. 1, 1917.

245,878. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE CLEVELAND HEATER COMPANY, Cleveland, Ohio. Filed Dec. 26, 1925. Serial No. 225,172.

CONTROL

For Gas and Oil Burning Central Heating Systems, Water Heaters, Garage Heaters, and Space Heaters; Gas and Oil Burners, Thermostatic Devices, Circulating Coils, and Regulating Devices, All Used in Connection with and Forming a Part of Heating Apparatus.
Claims use since Oct. 6, 1925.

245,879. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE NAPIER COMPANY, New Haven, Conn. Filed June 19, 1928. Serial No. 268,301.

NAPIER

For Pyrophoric Pocket Lighters.
Claims use since June 15, 1927.

245,880. (CLASS 37. PAPER AND STATIONERY.) BYRON WESTON COMPANY, Dalton, Mass. Filed May 28, 1928. Serial No. 267,112.

WESTON'S MACHINE POSTING LEDGER

For Writing Paper.
Claims use since on or about March, 1926.

245,881. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SASATO YAMATE, doing business as Yamate Bros., San Francisco, Calif. Filed May 11, 1928. Serial No. 266,292.

SAKHALIN

For Canned Crab Meat.
Claims use since May, 1921.

245,882. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED SAUSAGE CO., Boston, Mass. Filed Dec. 19, 1927. Serial No. 259,122.

BESTOVALL

For Fresh, Canned, and Smoked Meats.
Claims use since July 1, 1925.

245,883. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) BAKER BRUSH CO., INC., New York, N. Y. Filed Oct. 7, 1927. Serial No. 255,740.

VICK

For Paint Brushes.
Claims use since about May 1, 1927.

245,884. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ALBERT GODDE, BEDIN, INC., New York, N. Y. Filed July 11, 1927. Serial No. 251,807.

CREME DE SOIE

For Silk Piece Goods.
Claims use since about June 25, 1927.

245,885. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) O. B. MCCLINTOCK CO., Minneapolis, Minn. Filed July 5, 1927. Serial No. 251,508.

The VAULT VENTILATOR

For Vault Ventilators.
Claims use since June 15, 1927

245,886. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, INCORPORATED, Holyoke, Mass. Filed Apr. 19, 1927. Serial No. 247,660.

BARBARY LAID

For Writing and Printing Paper.
Claims use since Apr. 5, 1927.

245,887. (CLASS 33. GLASSWARE.) BULOVA WATCH COMPANY, INC., New York, N. Y. Filed Mar. 23, 1927. Serial No. 246,194.

SEAL-TITE

For Protectors of Celluloid with a Metal Retainer Providing Flexible Transparent Shields for Movements of Watches.
Claims use since Feb. 15, 1927.

245,888. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INTERNATIONAL MOTOR COMPANY, New York, N. Y. Filed May 4, 1926. Serial No. 231,106.

TORQUE INSULATOR

For Couplings for Power-Transmission Shafting.
Claims use since Apr. 10, 1926.

245,889. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) INTERNATIONAL MOTOR COMPANY, New York, N. Y. Filed Feb. 16, 1926. Serial No. 227,356.

TORQUE INSULATED

For Motor Busses and Trucks.
Claims use since Jan. 11, 1926.

TRADE-MARK REGISTRATIONS RENEWED

31,706. ART PHOTOGRAPHS. Registered June 21, 1898. CURTIS & CAMERON. Renewed June 21, 1928, to Curtis & Cameron, Inc., Boston, Mass., a Corporation of Massachusetts, successor.

32,026. PERFUMED LOZENGES. Registered October 4, 1898. THE SEARLE & HERETH COMPANY, Chicago, Ill. Renewed October 4, 1928, to The Searle & Hereth Company, New York, N. Y., a Corporation of Illinois.

32,087. ARTIFICIAL MINERAL SALTS FOR EXTERNAL USE IN THE BATH. Registered October 25, 1898. JOHN C. MINOR, Jr., New York, N. Y. Renewed October 25, 1928, to John C. Minor, New Canaan, Conn.

32,183. PORTLAND CEMENT. Registered November 22, 1898. LEHIGH PORTLAND CEMENT COMPANY, Ormrod and Allentown, Pa. Renewed November 22, 1928, to Lehigh Portland Cement Company, Allentown, Pa., a Corporation of Pennsylvania.

32,258. CONDENSED MILK. Registered December 20, 1898. NEW YORK CONDENSED MILK COMPANY. Renewed December 20, 1928, to The Borden Company, New York, N. Y., a Corporation of New Jersey, assignee.

32,348. GUN BARRELS. Registered January 10, 1899. THE HUNTER ARMS CO. Renewed January 10, 1929, to The Hunter Arms Co. Inc., Fulton, N. Y., a Corporation of New York, successor.

32,349. GUN BARRELS. Registered January 10, 1899. THE HUNTER ARMS CO. Renewed January 10, 1929, to The Hunter Arms Co. Inc., Fulton, N. Y., a Corporation of New York, successor.

32,420. CERTAIN NAMED PROVISIONS. Registered January 24, 1899. SWIFT AND COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed January 24, 1929.

66,854. CERTAIN CUTLERY. Registered December 31, 1907. WESTER BROS. Renewed December 31, 1927, to Wester Bros., New York, N. Y., a Firm, assignee.

66,926. ROASTED AND GROUND COFFEE. Registered January 7, 1908. DANIEL H. HOFFMAN. Renewed January 7, 1928, to Southern Coffee Mills, Limited, New Orleans, La., a Corporation of Louisiana, successor.

69,527. WORSTED, WOOLEN, AND SILK PIECE GOODS AND DRESS GOODS. Registered June 16, 1908. PRIESTLEYS LIMITED, Bradford, England. Renewed June 16, 1928, to B. Priestley & Co. Inc., New York, N. Y., a Corporation of New York, assignee.

69,742. PLOWS AND PARTS OF PLOWS. Registered June 30, 1908. CHATTANOOGA PLOW CO., Chattanooga, Tenn. Renewed June 30, 1928, to International Harvester Company, Chicago, Ill., a Corporation of New Jersey, assignee.

69,788. PORK AND BEANS. Registered July 7, 1908. JOSEPH CAMPBELL COMPANY. Renewed July 7, 1928, to Campbell Soup Company, Camden, N. J., a Corporation of New Jersey, assignee.

69,877. BED COMFORTS. Registered July 14, 1908. CARSON PIRIE SCOTT & CO. Renewed July 14, 1928, to Carson Pirie Scott & Co., Chicago, Ill., a Corporation of Illinois, assignee.

69,904. MEDICINAL TONIC PREPARATIONS. Registered July 14, 1908. THEODORE METCALF CO., Boston, Mass., a Corporation of Massachusetts. Renewed July 14, 1928.

69,922. AUTOMATIC PIANO PLAYERS. Registered July 21, 1908. THE AUTOPIANO COMPANY, New York, N. Y., a Corporation of New York. Renewed July 21, 1928.

69,925. BROOMS. Registered July 21, 1908. HARRAH & STEWART MFG. CO. Renewed July 21, 1928, to Harrah & Stewart Broom Manufacturing Co., Des Moines, Iowa, a Corporation of Iowa, assignee.

69,942. CERTAIN CHEMICAL PREPARATIONS. Registered July 21, 1908. THEODORE METCALF CO., Boston, Mass., a Corporation of Massachusetts. Renewed July 21, 1928.

69,944. NATURAL MINERAL WATERS. Registered July 21, 1908. BIRRESBORNER MINERALBRUNNEN H. LÖHR & EYLERT. Renewed July 21, 1928, to Birresborner Mineralbrunnen Aktiengesellschaft, Düsseldorf, Germany, a Joint-Stock Company of Germany, assignee.

70,043. INCANDESCENT ELECTRIC LAMPS. Registered July 28, 1908. THE BUCKEYE ELECTRIC COMPANY, Cleveland, Ohio. Renewed July 28, 1928, to General Electric Company, Schenectady, N. Y., a Corporation of New York, assignee.

70,104. OPEN-MESH FABRICS FOR PROTECTION AGAINST INSECTS. Registered July 28, 1908. THE I. E. PALMER COMPANY, Middletown, Conn., a Corporation of Connecticut. Renewed July 28, 1928.

70,124. INCANDESCENT ELECTRIC LAMPS. Registered August 4, 1908. THE BANNER ELECTRIC COMPANY, Youngstown, Ohio. Renewed August 4, 1928, to General Electric Company, Schenectady, N. Y., a Corporation of New York, assignee.

70,213. INCANDESCENT ELECTRIC LAMPS. Registered August 11, 1908. SUNBEAM INCANDESCENT LAMP COMPANY, Montclair, N. J. Renewed August 11, 1928, to General Electric Company, Schenectady, N. Y., a Corporation of New York, assignee.

70,225. BIBS AND VALVES. Registered August 11, 1908. THOMAS SAVILL & SONS. Renewed August 11, 1928, to Thomas Savill's Sons, Inc., Philadelphia, Pa., a Corporation of Pennsylvania, successor.

70,320. PEARL BUTTONS. Registered August 18, 1908 THE VIENNA PEARL BUTTON MANUFACTURING COMPANY, Muscatine, Iowa, and New York, N. Y. Renewed August 18, 1928, to Pennant Pearl Button Company, Muscatine, Iowa, a Corporation of Iowa, assignee.

70,388. PREPARATIONS FOR OILING ROADS. Registered August 25, 1908. AMERICAN TAR COMPANY, Boston, Mass., a Corporation of Massachusetts. Renewed August 25, 1928.

70,389. PREPARATIONS FOR OILING ROADS. Registered August 25, 1908. AMERICAN TAR COMPANY, Boston, Mass., a Corporation of Massachusetts. Renewed August 25, 1928.

70,390. PREPARATIONS FOR OILING ROADS. Registered August 25, 1908. AMERICAN TAR COMPANY, Boston, Mass., a Corporation of Massachusetts. Renewed August 25, 1928.

70,573. ELECTRIC INCANDESCENT AND ARC LAMPS. Registered September 15, 1908. DEUTSCHE GASGLÜHLICHT AKTIENGESELLSCHAFT (AUERGESELLSCHAFT. Renewed September 15, 1928, to Osram G. m. b. H. Kommanditgesellschaft, Berlin, Germany, a Corporation of Germany, assignee.

70,706. CERTAIN GLASSWARE. Registered September 29, 1908. THE OPALITE TILE CO., Monaca, Pa. Renewed September 29, 1928, to Herman Stratman, doing business as Opalite Tile Company, Pittsburgh, Pa., assignee.

70,827. CERTAIN YARNS AND THREADS. Registered October 6, 1908. DOLLFUS-MIEG & CIE. SOCIÉTÉ ANONYME, Mulhouse, Germany. Renewed October 6, 1928, to Dollfus-Mieg & Cie. Société Anonyme, Mulhouse, (Haut-Rhin), France, a Corporation of Germany, now of France.

71,082. OPAQUE ENAMEL PAINT. Registered October 27, 1908. UNITED STATES GUTTA PERCHA PAINT COMPANY, Saco, Me., and Providence, R. I. Renewed October 27, 1928, to United States Gutta Percha Paint Company, Providence, R. I., a Corporation of Rhode Island, assignee.

71,265. CERTAIN TOILET PREPARATIONS. Registered November 10, 1908. VINCENT B. THOMAS. Renewed November 10, 1928, to Harriet Hubbard Ayer, Inc., New York, N. Y., a Corporation of New York, assignee.

71,274. MACARONI. Registered November 17, 1908. THE ATLANTIC MACARONI CO., New York, N. Y. Renewed November 17, 1928, to The Atlantic Macaroni Co. Inc., Long Island City, N. Y., a Corporation of New York, assignee.

71,279. OVERALLS, JUMPERS, SHIRTS, AND PANTS. Registered November 17, 1908. THE BURNHAM-MUNGER MFG. CO. Renewed November 17, 1928, to Burnham-Munger-Root D. G. Co., Kansas City, Mo., a Corporation of Missouri, assignee.

71,386. CERTAIN ABRASIVE MATERIALS. Registered November 24, 1908. MARSHALL-WELLS HARDWARE CO. Renewed November 24, 1928, to Marshall-Wells Company, Duluth, Minn., a Corporation of New Jersey, by change of name.

71,387. CERTAIN CUTLERY AND TOOLS. Registered November 24, 1908, to MARSHALL-WELLS HARDWARE CO. Renewed November 24, 1928, to Marshall-Wells Company, Duluth, Minn., a Corporation of New Jersey, by change of name.

71,388. SQUARES, WING DIVIDERS, AND LEVELS. Registered November 24, 1908. MARSHALL-WELLS HARDWARE CO. Renewed November 24, 1928, to Marshall-Wells Company, Duluth, Minn., a Corporation of New Jersey, by change of name.

71,389. CERTAIN METAL ARTICLES. Registered November 24, 1908. MARSHALL-WELLS HARDWARE CO. Renewed November 24, 1928, to Marshall-Wells Company, Duluth, Minn., a Corporation of New Jersey, by change of name.

71,390. CERTAIN SPORTING GOODS. Registered November 24, 1908. MARSHALL-WELLS HARDWARE CO. Renewed November 24, 1928, to Marshall-Wells Company, Duluth, Minn., a Corporation of New Jersey, by change of name.

71,412. CERTAIN FOODS. Registered November 24, 1908. RICHARDSON & ROBBINS CO., Dover Del. a Corporation of Delaware. Renewed November 24 1928.

71,473. SILVER-PLATED KNIVES, FORKS, AND SPOONS. Registered November 24, 1908. MARSHALL-WELLS HARDWARE CO. Renewed November 24, 1928, to Marshall-Wells Company, Duluth. Minn., a Corporation of New Jersey, by change of name.

71,506. TANNED LEATHER. Registered December 1, 1908. GUTMANN & COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed December 1, 1928.

71,509. DUCK TENTS, AWNINGS, PAULINS, AND FELT WEATHER STRIPS. Registered December 1, 1908. MARSHALL-WELLS HARDWARE CO. Renewed December 1, 1928, to Marshall-Wells Company, Duluth, Minn., a Corporation of New Jersey, by change of name.

71,531. CONDENSED MILK. Registered December 1, 1908. MOHAWK CONDENSED MILK CO., Rochester and New York, N. Y., a Corporation of New York. Renewed December 1, 1928.

71,548. BABBITT METAL, SHEET STEEL, TIN PLATE, AND SILVER SOLDER. Registered December 1, 1908. MARSHALL-WELLS HARDWARE CO. Renewed December 1, 1928, to Marshall-Wells Company, Duluth, Minn., a Corporation of New Jersey, by change of name.

71,595. CERTAIN HORSE EQUIPMENT. Registered December 1, 1908. MARSHALL-WELLS HARDWARE CO. Renewed December 1, 1928, to Marshall-Wells Company, Duluth, Minn., a Corporation of New Jersey, by change of name.

71,618. BEESWAX. Registered December 8, 1908. E. A. BROMUND. Renewed December 8, 1928, to E. A. Bromund Company, New York, N. Y., a Corporation of New York, successor.

71,706. SEMIBITUMINOUS COAL. Registered December 15, 1908, to THE CHESAPEAKE & OHIO COAL & COKE COMPANY, Thurmond, W. Va., and New York, N. Y. Renewed December 15, 1928, to Stonega Coke and Coal Company, Philadelphia, Pa., a Corporation of Delaware, assignee.

71,707. A REMEDY FOR DANDRUFF AND ITCHING SCALP. Registered December 15, 1908. PETER C. CLEMENSEN, doing business as Copenhagen Chemical Company, Chicago, Ill. Renewed December 15, 1928.

71,777. GOLD SIZE. Registered December 15, 1908. THE CORNISH EUREKA GOLD SIZE CO. Renewed December 15, 1928, to Thomas H. Cornish, doing business as The Cornish Eureka Gold Size Co., San Francisco, Calif.

71,791. WHEAT FLOUR. Registered December 15, 1908. ORR BROS., Clay Center, Nebr., a Copartnership. Renewed December 15, 1928.

71,837. MEN'S DRAWERS AND UNDERSHIRTS. Registered December 15, 1908. ROBERT REIS & CO., New York, N. Y., a Corporation of New York. Renewed December 15, 1928.

71,914. COLD CREAM AND POMADES CONTAINING WOOL SUINT. Registered December 22, 1908. VEREINIGTE CHEMISCHE WERKE AKTIENGESELLSCHAFT, Charlottenburg, Germany, a Corporation of Germany. Renewed December 22, 1928.

71,937. FANCY TRIMMINGS AND BRAIDS. Registered December 22, 1908. DOLLFUS-MIEG & CIE. SOCIÉTÉ ANONYME, Mulhouse, Germany. Renewed December 22, 1928, to Dollfus-Mieg & Cie., Société Anonyme, Mulhouse, (Haut-Rhin), France, a Corporation of Germany, now of France.

71,938. FANCY TRIMMINGS AND BRAIDS. Registered December 22, 1908. DOLLFUS-MIEG & CIE. SOCIÉTÉ ANONYME, Mulhouse, Germany. Renewed December 22, 1928, to Dollfus-Mieg & Cie. Société Anonyme, Mulhouse, (Haut-Rhin), France, a Corporation of Germany, now of France.

71,939. FANCY TRIMMINGS AND BRAIDS. Registered December 22, 1908. DOLLFUS-MIEG & CIE. SOCIÉTÉ ANONYME, Mulhouse, Germany. Renewed December 22, 1928, to Dollfus-Mieg & Cie. Société Anonyme, Mulhouse, (Haut-Rhin), France, a Corporation of Germany, now of France.

71,940. CERTAIN FISHING TACKLE. Registered December 22, 1908. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio, a Corporation of Ohio. Renewed December 22, 1928.

71,948. REFRIGERATORS. Registered December 22, 1908. THE NORTHERN REFRIGERATOR COMPANY, Grand Rapids, Mich. Renewed December 22, 1928, to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan, assignee.

71,950. LOOSE-LEAF ENCYCLOPEDIAS. Registered December 22, 1908. THOMAS NELSON & SONS, New York, N. Y., a Corporation of New York. Renewed December 22, 1928.

71,957. VEHICLE DUST CLOTHS AND COVERS AND LAP ROBES. Registered December 22, 1908. THE CRAVENETTE COMPANY, Bradford, England. Renewed December 22, 1928, to The Cravenette Company, U. S. A., Hoboken, N. J., a Corporation of New Jersey, assignee.

71,987. BUTTONS AND BUCKLES FOR PERSONAL WEAR. Registered December 29, 1908. APPELBEE & NEUMAN. Renewed December 29, 1928, to Appelbee & Neuman, Inc., New York N. Y., a Corporation of New York, assignee.

71,994. WOMEN'S LEATHER SHOES. Registered December 29, 1908. DAVID DAVIDOVITZ. Renewed December 29, 1928, to Diamond Shoe Co., New York, N. Y., a Corporation of New York, successor.

72,031. CERTAIN CHEMICALS. Registered December 29, 1908. SOLVAY & CIE., Brussels, Belgium, a Corporation of Belgium. Renewed December 29, 1928.

72,038. LEATHER BELTING. Registered December 29, 1908. DETROIT OAK BELTING COMPANY, Detroit, Mich., a Corporation of Michigan. Renewed December 29, 1928.

72,042. SPICES. Registered December 29, 1908. THE GASSER COFFEE COMPANY. Renewed December 29, 1928, to The Karavan Coffee Company, Toledo, Ohio, a Corporation of Ohio, by change of name.

72,060. CERTAIN CUTLERY. Registered December 29, 1908. CATTARAUGUS CUTLERY COMPANY, Little Valley, N. Y., a Corporation of New York. Renewed December 29, 1928.

72,078. CARAMEL PASTE. Registered December 29, 1908. BORDEN'S CONDENSED MILK COMPANY, Jersey City, N. J., and New York, N. Y. Renewed December 29, 1928, to The Borden Company, New York, N. Y., a Corporation of New Jersey, by change of name.

72,079. A MAGAZINE. Registered December 29, 1908. THE CARTER'S INK COMPANY, Boston, Mass., and New York, N. Y. Renewed December 29, 1928, to The Carter's Ink Company, Cambridge, Mass., a Corporation of Massachusetts.

72,082. CERTAIN LAUNDRY MACHINES. Registered December 29, 1908. TROY LAUNDRY MACHINERY COMPANY LIMITED, Troy, N. Y., and Chicago, Ill. Renewed December 29, 1928, to Troy Laundry Machinery Co. Inc., East Moline, Ill., a Corporation of Delaware, assignee.

72,088. EGGS. Registered January 5, 1909. THE FOX RIVER BUTTER COMPANY, Aurora, Ill. Renewed January 5, 1929, to Beatrice Creamery Company, Chicago, Ill., a Corporation of Delaware, assignee by mesne assignments.

72,172. LIQUID GLUE, MUCILAGE, AND ADHESIVE PASTE. Registered January 5, 1909. RUSSIA CEMENT COMPANY, Gloucester, Mass., a Corporation of Massachusetts. Renewed January 5, 1929.

72,173. LIQUID GLUE, MUCILAGE, AND ADHESIVE PASTE. Registered January 5, 1909. RUSSIA CEMENT COMPANY, Gloucester, Mass., a Corporation of Massachusetts. Renewed January 5, 1929.

72,243. CERTAIN HARNESS PARTS. Registered January 12, 1909. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio, a Corporation of Ohio. Renewed January 12, 1929.

72,270. CIGARS. Registered January 12, 1909. H. FENDRICH. Renewed January 12, 1929, to H. Fendrich Incorporated, Evansville, Ind., a Corporation of Indiana, assignee.

72,271. CIGARS. Registered January 12, 1909. H. FENDRICH. Renewed January 12, 1929, to H. Fendrich Incorporated, Evansville, Ind., a Corporation of Indiana, assignee.

72,272. CIGARS. Registered January 12, 1909. H. FENDRICH. Renewed January 12, 1929, to H. Fendrich Incorporated, Evansville, Ind., a Corporation of Indiana, assignee.

72,273. CIGARS. Registered January 12, 1909. H. FENDRICH. Renewed January 12, 1929, to H. Fendrich Incorporated, Evansville, Ind., a Corporation of Indiana, assignee.

72,274. CIGARS. Registered January 12, 1909. H. FENDRICH. Renewed January 12, 1929, to H. Fendrich Incorporated, Evansville, Ind., a Corporation of Indiana, assignee.

72,292. CLOTHS AND WORSTEDS FOR GARMENTS. Registered January 12, 1909. THE SCHWARZWAELDER COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed January 12, 1929.

72,348. BROOMS. Registered January 19, 1909. AMERICAN BROOM & BRUSH COMPANY, Amsterdam, N. Y., a Corporation of New York. Renewed January 19, 1929.

72,373. SOAPS. Registered January 19, 1909. LOCKWOOD, ADAMS AND COMPANY. Renewed January 19, 1929, to Lockwood Brackett Co., Boston, Mass., a Corporation of Massachusetts, assignee.

72,383. CANDY. Registered January 19, 1909. THE NUNNALLY COMPANY, Atlanta, Ga., and Birmingham, Ala. Renewed January 19, 1929, to The Nunnally Company, Atlanta, Ga., a Corporation of Georgia.

LABELS

REGISTERED AUGUST 21, 1928.

34,450.—*Title:* FOR DESSERT—MY-T-FINE. For Dessert Preparations. THE D & C CO., INC., Wilmington, Del., and Brooklyn, N. Y. Published February 10, 1928.

34,451.—*Title:* KITCHEN KLENZER. For Cleaning Preparation in Finely-Divided Form for Household Use for Cleaning, Scouring, and Polishing Metal, Glass, Woodwork, Machinery, Culinary and Like Articles, Etc. FITZPATRICK BROS., Chicago, Ill. Published June 1, 1928.

34,452.—*Title:* BURDENWIES BARLEY MALT SYRUP. For Barley-Malt Sirup. MORRIS J. GREEN, Chicago, Ill. Published June 16, 1928.

34,453.—*Title:* RED DOT ANT SYRUP. For a Preparation for Extermination of Certain Ants That Infest the House. CHARLES B. HOOD, doing business as Red Dot Mfg. Co., Orange, Tex. Published March 22, 1928.

34,454.—*Title:* THE GIFT OF THE WEST. For Candy. IMPERIAL CANDY CO., Seattle, Wash. Published June 1, 1928.

34,455.—*Title:* IT'S THE DURUM WHEAT THAT MAKES GOOD MACARONI. For Macaroni. INDEPENDENT MACARONI CO. INC., doing business as Independent Macaroni M'f'g. Co., Mount Vernon, N. Y. Published May 10, 1928.

34,456.—*Title:* CONCORD GRAPE STYLE CORDIAL CHERRIES. For Candy. FREDERICK W. LIPPS CO., INC., Baltimore, Md. Published July 3, 1928.

34,457.—*Title:* REICHARDT'S CHOCOLATE NAPS. For Candy. REICHARDT COCOA & CHOCOLATE CO., INC., New York, N. Y. Published April 10, 1928.

34,458.—*Title:* VITALIME. For Stock and Poultry Feed. RIVER PRODUCTS CO., Iowa City, Iowa. Published May 4, 1928.

34,459.—*Title:* FLORIDA MAID. For Fruit Products. RUTHERFORD COMPANY, Miami, Fla. Published February 1, 1926.

34,460.—*Title:* COUNTRY MAID. For Butter. THE SUTHERLAND PAPER COMPANY, Kalamazoo, Mich. Published January 10, 1928.

34,461.—*Title:* DELICIA. For Butter. THE SUTHERLAND PAPER COMPANY, Kalamazoo, Mich. Published January 1, 1928.

34,462.—*Title:* OLD GOLD. For Malt Syrup. VAL BLATZ BREWING CO., Milwaukee, Wis. Published March 27, 1928.

34,463.—*Title:* IT'S A BIRD. For Malt Syrup. VAL BLATZ BREWING COMPANY, Milwaukee, Wis. Published June 13, 1928.

34,464.—*Title:* ARLINGTON. For All Kinds of Pickles. VOGLER-SCHILLO COMPANY, Chicago, Ill. Published June 22, 1928.

34,465.—*Title:* WHITING'S GOTHAM LINEN. For Stationery. WHITING PAPER COMPANY, Holyoke, Mass. Published September 18, 1924.

34,466.—*Title:* WHITE CAP. For Mints. STEPHEN F. WHITMAN & SON, INC., Philadelphia, Pa. Published January 1, 1928.

PRINTS

REGISTERED AUGUST 21, 1928.

11,171.—*Title:* BEECH-NUT PEPPERMINT CHEWING GUM. For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published May 25, 1928.

11,172.—*Title:* BEECH-NUT CHEWING GUM. WINTERGREEN. For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published May 29, 1928.

11,173.—*Title:* BEECH-NUT CHEWING GUM. SPEARMINT. For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published May 29, 1928.

11,174.—*Title:* BEECH-NUT LICORICE FLAVORED CHEWING GUM. For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published March 29, 1928.

11,175.—*Title:* BEECH-NUT FRUIT FLAVORED CHEWING GUM. For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published March 13, 1928.

11,176.—*Title:* BELL TAVERNS. For Food. BELL TAVERN SYSTEM, Chicago, Ill. Published February 20, 1928.

11,177.—*Title:* ESBERGER WEDDING RINGS ASSURE LOVE AND HAPPINESS. For Wedding Rings. ESBERGER BROS., Cincinnati, Ohio. Published July 11, 1928.

11,178.—*Title:* FLIES ARE DANGEROUS, MERITINE KNOCKS 'EM DEAD. For Insecticide. HARDEMAN-KING COMPANY, Oklahoma, Okla. Published July 3, 1928.

11,179.—*Title:* NICOTEX COMPANY, THE. For Preparation for Removing Tobacco and Nicotine Stains from the Skin. THE NICOTEX COMPANY, New York, N. Y. Published June 26, 1928.

11,180.—*Title:* AJAX. For Combs. PLATT-FORBES, INC., New York, N. Y. Published April 5, 1928.

11,181.—*Title:* LIBERTY ROOT BEER. For Root Beer. RICHARDSON CORPORATION, Rochester, N. Y. Published June 1, 1928.

11,182.—*Title:* U S SHOT SHEELS A LOAD FOR EVERY PURPOSE A SHELL FOR EVERY PURSE. For U S Shot Shells. U. S. CARTRIDGE CO., New York, N. Y. Published May 22, 1928.

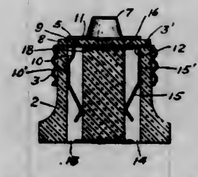
11,183.—*Title:* A FOOD—VITAL AS SUNSHINE. For Ice Cream. WESTERN DAIRY PRODUCTS CO., Seattle, Wash. Published May 13, 1927.

REISSUES

AUGUST 21, 1928.

17,068. ELECTRIC CONNECTING PLUG. JOHANN G. PETERSON, West Hartford, Conn. Filed Sept. 22, 1926. Serial No. 137,142. Original No. 1,537,689, dated May 12, 1925, Serial No. 712,036, filed May 9, 1924. 20 Claims. (Cl. 173—343.)

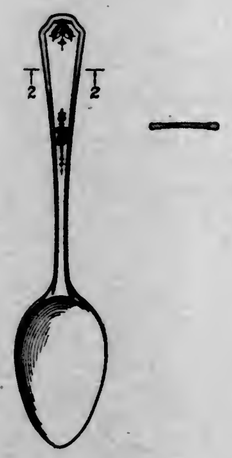
1. In combination, an insulating base of substantially uniform diameter at one end, a conducting shell on that end of the same, an insulating disc overlying the adjacent ends of said base and shell, a raised hollow central contact outside said disc and of substantially greater height than the latter, contacts in said base having portions on opposite sides of said disc and including one extending through said disc and underlying said raised hollow contact and one engaging said shell, and means insulated from said shell clamping the bottom of said raised hollow contact in engagement with its cooperating contact and also clamping all of the parts to said base.



DESIGNS

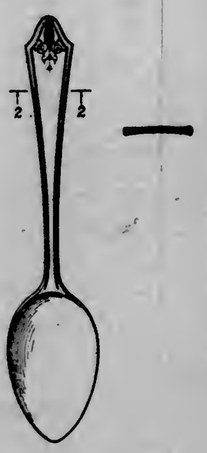
AUGUST 21, 1928.

76,111. SPOON OR SIMILAR ARTICLE. GROSVENOR N. ALLEN, Oneida, N. Y., assignor to Oneida Community, Limited, Oneida, N. Y., a Corporation of New York. Filed May 31, 1928. Serial No. 26,941. Term of patent 14 years.



The ornamental design for a spoon or similar article as shown and described.

76,112. SPOON OR SIMILAR ARTICLE. GROSVENOR N. ALLEN, Oneida, N. Y., assignor to Oneida Community, Limited, Oneida, N. Y., a Corporation of New York. Filed May 31, 1928. Serial No. 26,942. Term of patent 14 years.



The ornamental design for a spoon or similar article as shown and described.

76,113. BOOK END. ALF B. ANDERSEN, Brooklyn, N. Y., assignor to Alf B. Andersen & Starr, Inc., New York, N. Y., a Corporation of New York. Filed June 14, 1928. Serial No. 27,117. Term of patent 7 years.



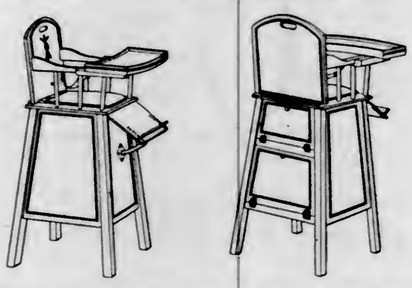
The ornamental design for a book end, as shown.

76,114. INCINERATOR. HARRIS W. AYERS, Burbank, Calif. Filed Aug. 22, 1927. Serial No. 23,169. Term of patent 3½ years.



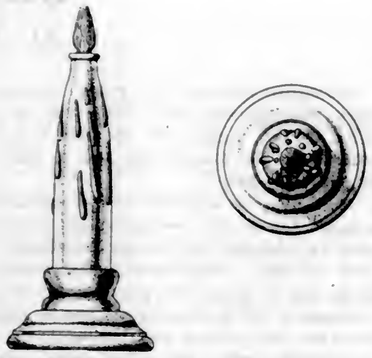
The ornamental design for an incinerator, substantially as shown.

76,115. COMBINED HIGH AND NURSERY CHAIR. JAMES G. BASTIAN, Shelton, Nebr. Filed June 30, 1927. Serial No. 22,614. Term of patent 14 years.



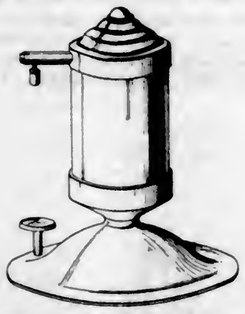
The ornamental design for a combined high and nursery chair, as shown.

76,116. BOTTLE OR SIMILAR CONTAINER. JEAN W. BICKS, Evanston, Ill., assignor to Spencer Perfume Company, South Bend, Ind., a Corporation of Indiana. Filed June 16, 1928. Serial No. 27,162. Term of patent 3½ years.



The ornamental design for a bottle or similar container, as shown.

76,117. LIQUID-SOAP DISPENSER. JOHN W. BLOODHART, Dubuque, Iowa, assignor to Midland Chemical Laboratories, Inc., Dubuque, Iowa. Filed June 27, 1927. Serial No. 22,572. Term of patent 14 years.



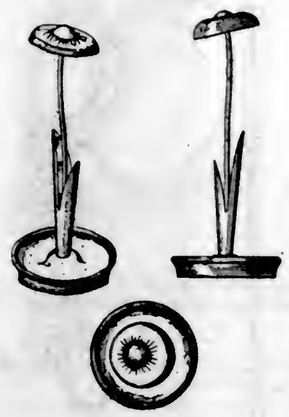
The ornamental design for a liquid soap dispenser, as shown.

76,118. HANGING LIGHTING FIXTURE. JOHN A. BOEHRINGER, Springfield, N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed May 22, 1928. Serial No. 26,801. Term of patent 3½ years.



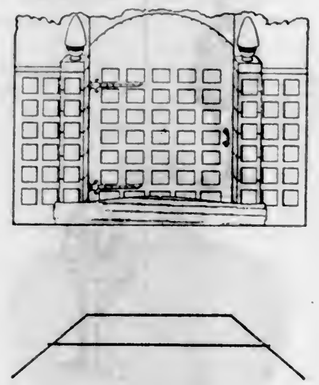
The ornamental design for a hanging lighting fixture, as shown.

76,119. HATRACK. JOHN BROCH, Corona, N. Y. Filed June 2, 1928. Serial No. 26,974. Term of patent 3½ years.



The ornamental design for a hatrack as shown.

76,120. RACK. JAMES H. BURDETT, Flossmoor, Ill. Filed Nov. 21, 1927. Serial No. 24,224. Term of patent 7 years.



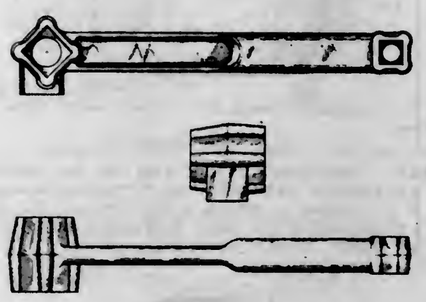
The ornamental design for a rack as shown.

76,121. DRESS. KATHERINE E. BURNS, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 16, 1928. Serial No. 26,334. Term of patent 3½ years.



The ornamental design for a dress substantially as shown and described.

76,122. COMBINED POLE-LINE WRENCH AND HAMMER. CHARLES L. CLARK, Pittsburgh, Pa., assignor to A. Bishop Chance, Centralia, Mo. Filed Apr. 2, 1928. Serial No. 26,090. Term of patent 14 years.



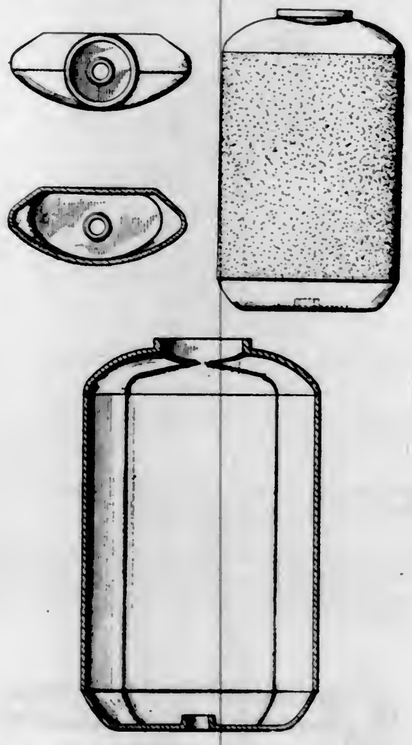
The ornamental design for a combined pole line wrench and hammer, as shown.

76,123. TEXTILE FABRIC. RICHARD COCKING, Waltham, Mass. Filed May 10, 1927. Serial No. 21,908. Term of patent 3½ years.



The ornamental design for a textile fabric as shown.

76,124. LIQUID-COOLER BOTTLE. FRED W. COOK, Michigan City, Ind., assignor to Perfection Cooler Company, Michigan City, Ind. Filed Apr. 2, 1928. Serial No. 26,092. Term of patent 14 years.



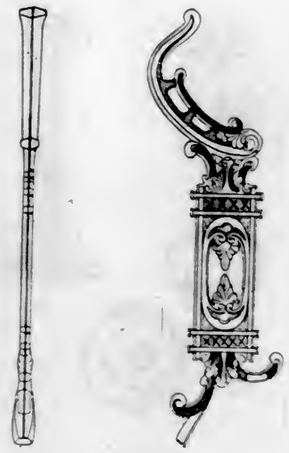
The ornamental design for a liquid cooler bottle as shown.

76,125. LIGHTING-FIXTURE ARM OR ARTICLE OF ANALOGOUS NATURE. JOHN DI GAUDIO, Brooklyn, N. Y., assignor to Modern Lighting Fixture Co., Inc., a Corporation of New York. Filed June 2, 1928. Serial No. 26,976. Term of patent 3½ years.



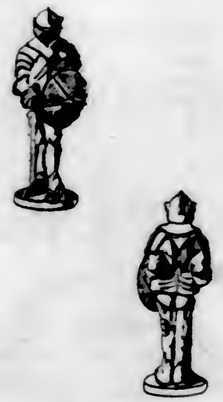
The ornamental design for a lighting-fixture arm or article of analogons nature substantially as shown.

76,126. LIGHTING-FIXTURE BRACE OR ARTICLE OF ANALOGOUS NATURE. JOHN DI GAUDIO, Brooklyn, N. Y., assignor to Modern Lighting Fixture Co., Inc., a Corporation of New York. Filed June 2, 1928. Serial No. 26,977. Term of patent 3½ years.



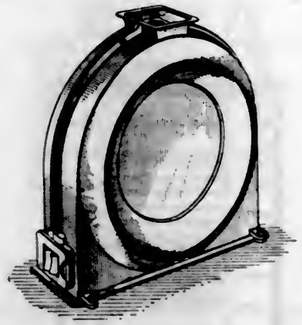
The ornamental design for a lighting-fixture brace or article of analogous nature substantially as shown.

76,127. SHAKER FOR SALT AND PEPPER OR SIMILAR ARTICLE OF MANUFACTURE. JEANNE L. DRUCKLIEB, New York, N. Y. Filed Mar. 31, 1928. Serial No. 26,081. Term of patent 7 years.



The ornamental design for a shaker for salt and pepper or similar article of manufacture, substantially as shown.

76,128. HOSE-WINDING-MACHINE CASING FOR USE AT FILLING STATIONS, GARAGES, AND OTHER PLACES. ALRAH B. EDWARDS, Abilene, Tex. Filed Apr. 7, 1927. Serial No. 21,500. Term of patent 7 years.



The ornamental design for a hose winding machine casing for use at filling stations, garages, and other places, as shown.

76,129. BOTTLE. WILSON D. EDWARDS, Terre Haute, Ind., assignor to The Herpicide Company, Detroit, Mich., a Corporation of Michigan. Filed May 21, 1928. Serial No. 26,785. Term of patent 7 years.



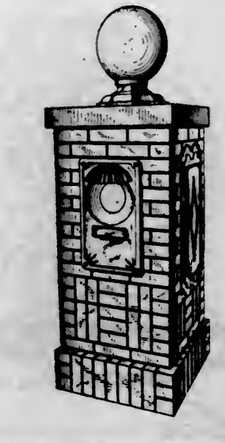
The ornamental design for a bottle as shown.

76,130. BOTTLE. WILSON D. EDWARDS, Terre Haute, Ind., assignor to Turner Glass Company, Terre Haute, Ind., a Corporation of Indiana. Filed May 31, 1928. Serial No. 26,923. Term of patent 3½ years.



The ornamental design for a bottle as shown.

76,131. GASOLINE-METER CASING. CHARLES D. FAGAN, Sharon, Pa., assignor to Sharpsville Boiler Works Co., Sharpsville, Pa., a Corporation of Pennsylvania. Filed July 28, 1927. Serial No. 22,903. Term of patent 14 years.



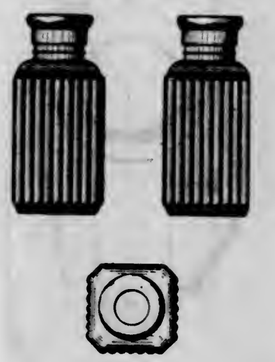
The ornamental design for a gasoline meter casing substantially as shown.

76,132. RADIATOR ORNAMENT. FRANK GENTILE, Brooklyn, N. Y. Filed Oct. 22, 1927. Serial No. 23,853. Term of patent 3½ years.



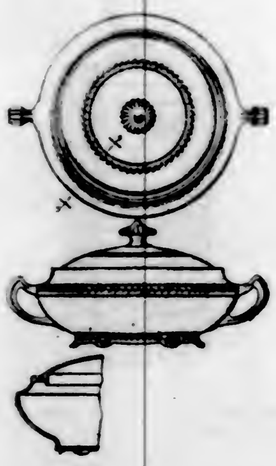
The ornamental design for a radiator ornament, as shown.

76,133. BOTTLE. LOUIS HALK, Hackensack, N. J., assignor to Northam Warren Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 28, 1928. Serial No. 26,050. Term of patent 14 years.



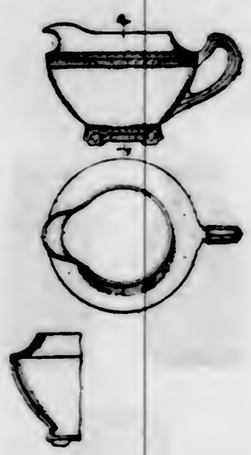
The ornamental design for a bottle as shown.

76,134. BOWL OR SIMILAR ARTICLE. GEORGE HAVILAND, Paris, France, assignor to Haviland & Co. Societe Anonyme, Limoges, France, a Joint Stock Company. Filed Jan. 10, 1928. Serial No. 24,802. Term of patent 14 years.



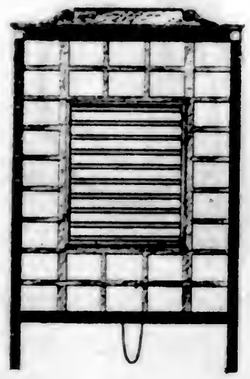
The ornamental design for a bowl or similar article, as shown.

76,135. PITCHER OR SIMILAR ARTICLE. GEORGE HAVILAND, Paris, France, assignor to Haviland & Co. Societe Anonyme, Limoges, France, a Joint Stock Company. Filed Jan. 10, 1928. Serial No. 24,805. Term of patent 14 years.



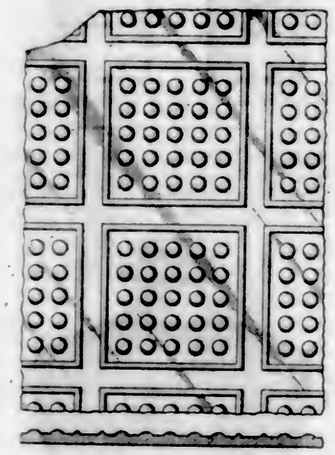
The ornamental design for a pitcher or similar article, as shown.

76,136. DISPLAY BOARD. FRANCIS T. HAYES, Richmond Hill, N. Y. Filed Mar. 30, 1927. Serial No. 21,404. Term of patent 3½ years.



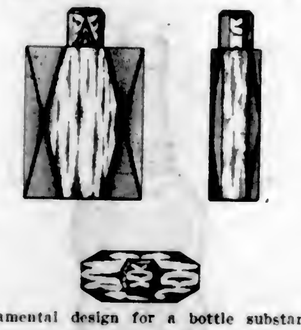
The ornamental design for a display board, substantially as shown.

76,137. FIGURED GLASS. LEONARD F. JACKLIN, Streator, Ill., assignor to The Western Glass Company, Streator, Ill., a Corporation of Illinois. Filed Mar. 12, 1926. Serial No. 16,896. Term of patent 14 years.



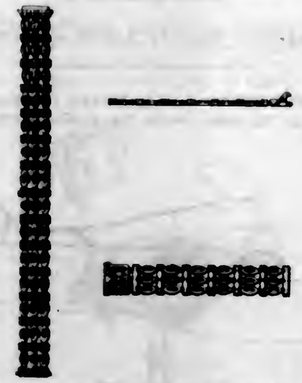
The ornamental design for figured glass substantially as shown.

76,138. BOTTLE. FERNAND JAVAL, Paris, France, assignor to Houbigant, Inc., New York, N. Y., a Corporation of New York. Filed June 1, 1928. Serial No. 26,948. Term of patent 14 years.



The ornamental design for a bottle substantially as shown.

76,139. WATCH BRACELET OR SIMILAR ARTICLE. FELIX P. KINSLEY, St. Louis, Mo. Filed Mar. 1, 1928. Serial No. 25,627. Term of patent 7 years.



The ornamental design for a watch bracelet or similar article, as shown.

76,140. ELECTRIC-LIGHT FIXTURE. WILLIAM KLEHR, Forest Hills, N. Y., assignor to Edward F. Caldwell & Co. Inc., New York, N. Y., a Corporation of New York. Filed May 15, 1928. Serial No. 26,678. Term of patent 3½ years.



The ornamental design for an electric light fixture as shown.

76,141. WALL PAPER OR THE LIKE. FRANK E. LEITCH, Stamford, Conn., assignor to Stamford Wall Paper Company, Stamford, Conn., a Corporation of Delaware. Filed Nov. 23, 1927. Serial No. 24,259. Term of patent 3½ years.



The ornamental design for wall paper or the like as shown and described.

76,142. BOTTLE. ROBERT LIDDELL, Puteaux, France, assignor to Societe Parisienne des Produits de Beaute "Ganna Walska," Pantin, France. Filed Oct. 3, 1927, Serial No. 23,615, and in France June 21, 1927. Term of patent 7 years.



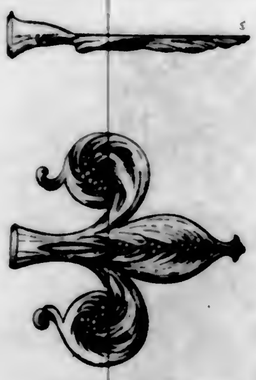
The ornamental design for a bottle substantially as shown.

76,143. FISH LIFTER. JULIA LITWIN, Buffalo, N. Y. Filed June 14, 1928. Serial No. 27,118. Term of patent 14 years.



The ornamental design for a fish lifter, substantially as shown.

76,144. END ORNAMENT FOR DRAPERY POLES AND RODS. GUNNAR MADVIG, Oakland, Calif. Filed Feb. 23, 1928. Serial No. 25,536. Term of patent 3½ years.



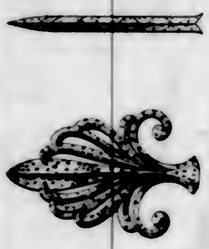
The ornamental design for an end ornament for drapery poles and rods substantially as shown.

76,145. END ORNAMENT FOR DRAPERY POLES AND RODS. GUNNAR MADVIG, Oakland, Calif. Filed Feb. 23, 1928. Serial No. 25,537. Term of patent 3½ years.



The ornamental design for an end ornament for drapery poles and rods substantially as shown.

76,146. END ORNAMENT FOR DRAPERY POLES AND RODS. GUNNAR MADVIG, Oakland, Calif. Filed Feb. 23, 1928. Serial No. 25,538. Term of patent 3½ years.



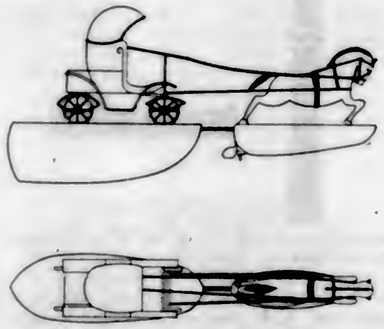
The ornamental design for an end ornament for drapery poles and rods substantially as shown.

76,147. BOTTLE. GEORGE N. MAS, Washington, D. C., assignor to American Ornamental Bottle Corporation, Lynchburg, Va. Filed Dec. 29, 1926. Serial No. 20,207. Term of patent 14 years.



The ornamental design for a bottle, as shown.

76,148. TOY BOAT. JANE R. MILLER, Los Angeles, Calif. Filed Apr. 25, 1928. Serial No. 26,455. Term of patent 7 years.



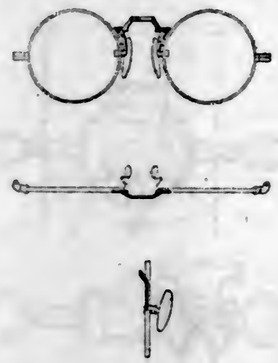
The ornamental design for a toy boat, as shown.

76,149. SPEEDOMETER DIAL. JOHN K. OLSEN, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Feb. 6, 1924. Serial No. 8,544. Term of patent 7 years.



The ornamental design for a speedometer dial substantially as shown.

76,150. NOSE BRIDGE FOR EYEGLASSES. JACOB J. POMERANZ, Brooklyn, N. Y. Filed May 11, 1928. Serial No. 26,639. Term of patent 14 years.



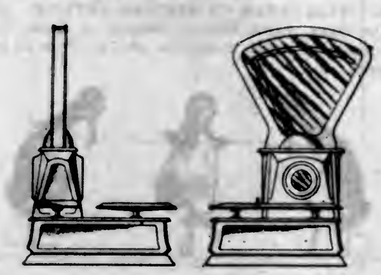
The ornamental design for nose-bridge for eyeglasses as shown.

76,151. OFFICE CHAIR. ERNEST RACZ, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 7, 1928. Serial No. 25,729. Term of patent 14 years.



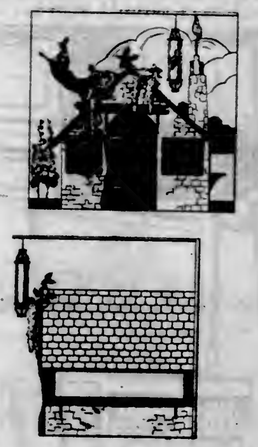
The ornamental design for an office chair, as shown.

76,152. SCALE FRAME. ORWELL C. REEVES, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed May 6, 1927. Serial No. 21,870. Term of patent 14 years.



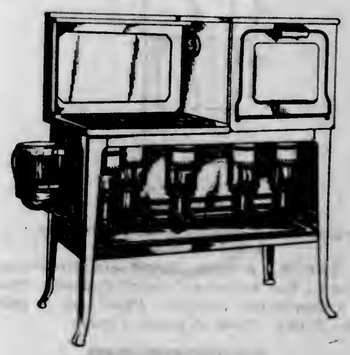
The ornamental design for a scale frame as shown.

76,153. DISPLAY BOOTH. ERNEST REICH, Chicago, Ill. Filed Feb. 17, 1928. Serial No. 25,476. Term of patent 14 years.



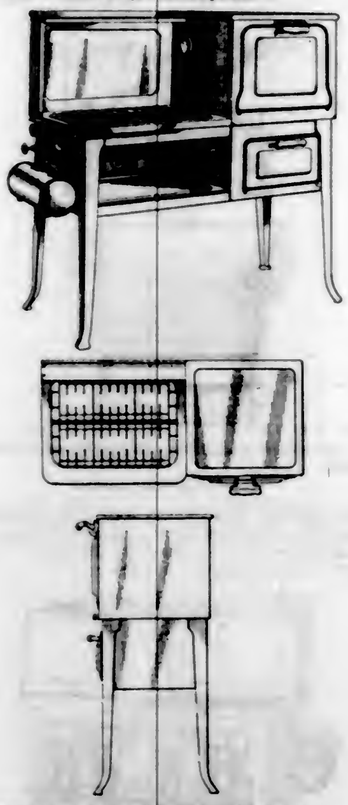
The ornamental design for a display booth, as shown and described.

76,154. STOVE. MARC RESEK, Cleveland Heights, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 14, 1927. Serial No. 24,116. Term of patent 14 years.



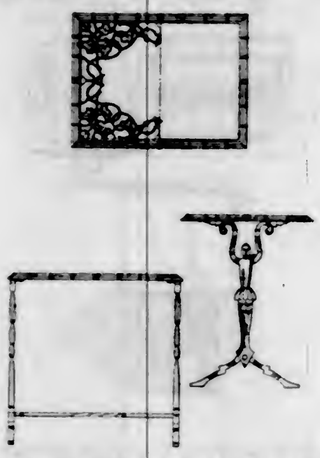
The ornamental design for a stove as shown.

76,155. STOVE. MARC RESEK, Cleveland Heights, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 14, 1927. Serial No. 24,117. Term of patent 14 years.



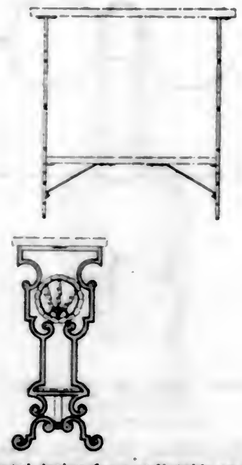
The ornamental design for a stove as shown.

76,156. TABLE. RICHARD RYCHTARIK, Cleveland, Ohio, assignor to The Superior Foundry Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 5, 1928. Serial No. 27,004. Term of patent 7 years.



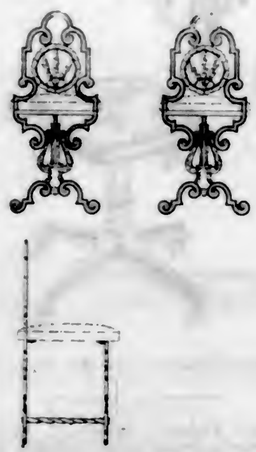
The ornamental design for a table as shown and described.

76,157. RADIOTABLE. RICHARD RYCHTARIK, Cleveland, Ohio, assignor to The Superior Foundry Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 5, 1928. Serial No. 27,005. Term of patent 7 years.



The ornamental design for a radiotable as shown.

76,158. CHAIR. RICHARD RYCHTARIK, Cleveland, Ohio, assignor to The Superior Foundry Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 5, 1928. Serial No. 27,006. Term of patent 7 years.



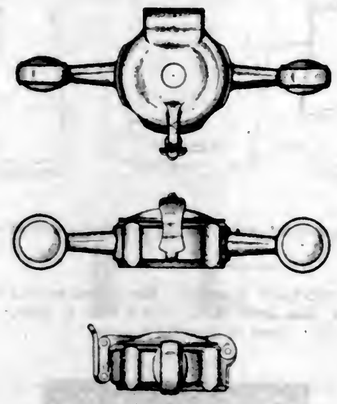
The ornamental design for a chair as shown.

76,159. STATUETTE OR SIMILAR ARTICLE. ALAIN SAINT OGAN, Paris, France, assignor to Louis Dangel. Filed May 21, 1928. Serial No. 26,774. Term of patent 7 years.



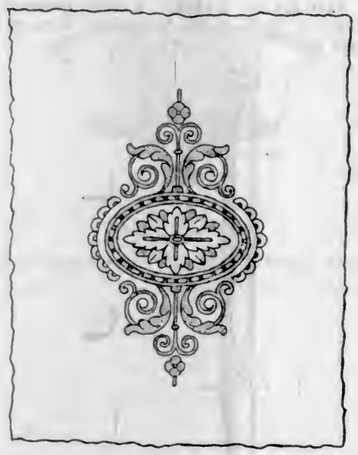
The ornamental design for a statuette or similar article, as shown.

76,160. RADIATOR CAP. HERMAN SCHLAICH, Long Island City, N. Y., assignor to Motormeter Company, Inc., Long Island City, N. Y., a Corporation of New York. Filed Apr. 13, 1923. Serial No. 5,805. Term of patent 14 years.



The ornamental design for a radiator cap substantially as shown and described.

76,161. EMBROIDERED TEXTILE FABRIC. WERNER SCHMID, White Plains, N. Y. Filed Jan. 19, 1928. Serial No. 24,918. Term of patent 3½ years.



The ornamental design for emboridered textile fabric, as shown.

76,162. EMBROIDERED TEXTILE FABRIC. WERNER SCHMID, White Plains, N. Y., assignor to Audrey Dreifuss, Emil Dreifuss, Jerome Dreifuss, Louis Dreifuss, and Sybille Dreifuss, Copartners doing business as National Lace and Embroidery Company, New York, N. Y. Filed Apr. 28, 1928. Serial No. 26,499. Term of patent 3½ years.



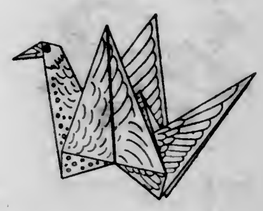
The ornamental design for embroidered textile fabric, as shown.

76,163. CONDIMENT HOLDER. EDWIN E. SLICK, Pittsburgh, Pa., assignor to United States Glass Company, Pittsburgh, Pa. Filed Oct. 10, 1927. Serial No. 23,710. Term of patent 14 years.



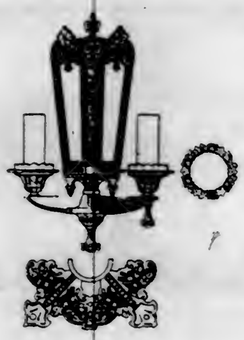
The ornamental design for a condiment holder, as shown.

76,164. PAPER BIRD PUZZLE. VERNON B. SMITH, Chicago, Ill. Filed June 7, 1928. Serial No. 27,034. Term of patent 7 years.



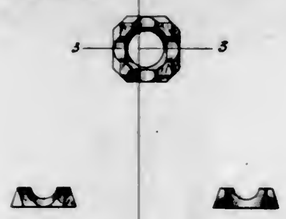
The ornamental design for a paper bird puzzle, as shown.

76,165. LIGHTING-FIXTURE BRACKET. OLAF S. STROM, Los Angeles, Calif., assignor to Solar Lighting Fixture Co., Los Angeles, Calif., a Corporation. Filed May 5, 1928. Serial No. 26,582. Term of patent 3½ years.



The ornamental design for a lighting fixture bracket as shown.

76,166. RING SETTING. GUY A. TOMLINSON, Detroit, Mich. Filed Nov. 12, 1927. Serial No. 24,093. Term of patent 3½ years.



The ornamental design for a ring setting substantially as shown and described.

76,167. AUTOMOBILE RADIATOR CAP. JESSIE CARR TYNDALL, St. Louis, Mo. Filed Jan. 16, 1926. Serial No. 16,122. Term of patent 7 years.



The ornamental design for an automobile radiator cap, as shown and described.

76,168. OVERSHOE. KATHRYN L. VALENTINE and GEORGE RAMSEY, Jersey City, N. J. Filed Mar. 28, 1928. Serial No. 26,051. Term of patent 14 years.



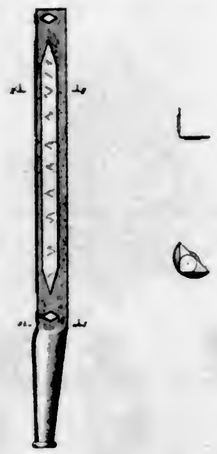
The ornamental design for an overshoe substantially as shown.

76,169. TEXTILE FABRIC. EMIL WEINER and HARRY KATIMS, New York, N. Y. Filed Feb. 1, 1928. Serial No. 25,132. Term of patent 3½ years.



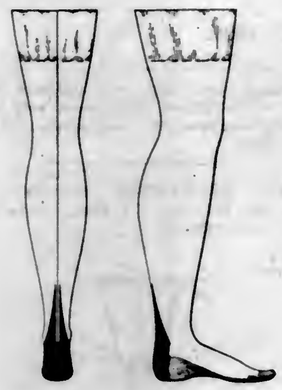
The ornamental design for a textile fabric as shown.

76,170. STOVE LEG. LEWIS T. WILCOX, Peekskill, N. Y. Filed Oct. 15, 1927. Serial No. 23,754. Term of patent 14 years.



The ornamental design for a stove leg, as shown and described.

76,171. STOCKING. HARRY S. WOLFF, New Rochelle, N. Y. Filed Apr. 27, 1928. Serial No. 26,482. Term of patent 14 years.



The ornamental design for a stocking, as shown.

76,172. LIGHTING FIXTURE. HERMAN H. WOLTER, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a Corporation of Connecticut. Filed June 19, 1928. Serial No. 27,194. Term of patent 7 years.



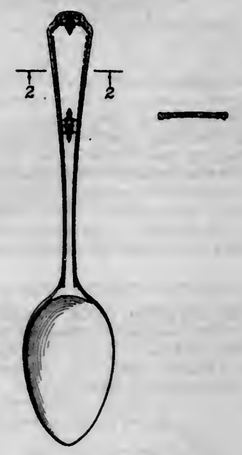
The ornamental design for a lighting fixture, as shown.

76,173. LIGHTING FIXTURE. HERMAN H. WOLTER, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a Corporation of Connecticut. Filed June 19, 1928. Serial No. 27,195. Term of patent 7 years.



The ornamental design for a lighting fixture, as shown.

76,174. SPOON OR SIMILAR ARTICLE. GROSVENOR N. ALLEN, Oneida, N. Y., assignor to Oneida Community, Limited, Oneida, N. Y., a Corporation of New York. Filed May 31, 1928. Serial No. 26,943. Term of patent 14 years.

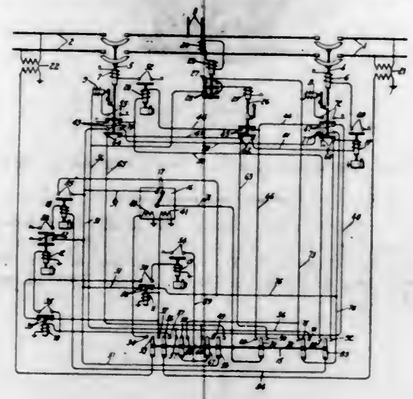


The ornamental design for a spoon or similar article as shown and described.

PATENTS

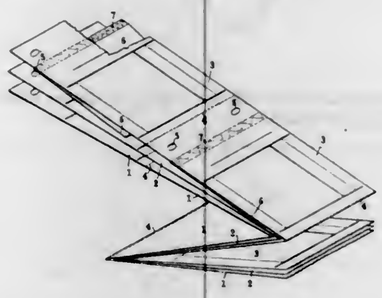
GRANTED AUGUST 21, 1928.

1,681,158. AUTOMATIC SWITCHING SYSTEM. ARVID E. ANDERSON, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 28, 1927. Serial No. 187,402. 11 Claims. (Cl. 171—97.)



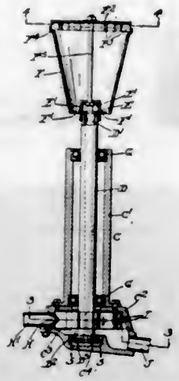
1. In combination, a load circuit, a source of current connected thereto, another source of current normally disconnected from said load circuit, means responsive to a predetermined abnormal condition of said first mentioned source for effecting the disconnection thereof from said load circuit and the connection of said other source to said load circuit, and means responsive to a predetermined phase relation between the voltages of said sources when said other source is connected to said load circuit for effecting the reconnection of said first mentioned source to said load circuit.

1,681,159. MANIFOLDING BOOK. JAMES W. ANDERSON, New York, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario, Canada. Filed Nov. 16, 1923. Serial No. 675,199. 7 Claims. (Cl. 282—12.)



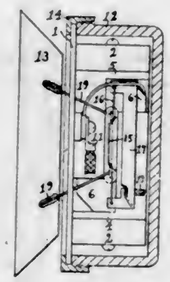
1. A traveler record strip having a longitudinal series of traveler record leaves joined end to end and a translucent auxiliary record leaf for and lapping each of a series of adjacent joined traveler record leaves and attached along a line transversely thereof to the traveler strip in the vicinity of the juncture of the lapped traveler record leaf with the next preceding record leaf, said auxiliary leaves being adapted, by virtue of their attachments with said traveler strip, to be carried forwardly successively into inscription-receiving position.

1,681,160. OIL BURNER. WILLIAM C. ANTHONY, Streator, Ill. Filed Dec. 17, 1925. Serial No. 75,926. 7 Claims. (Cl. 158—77.)



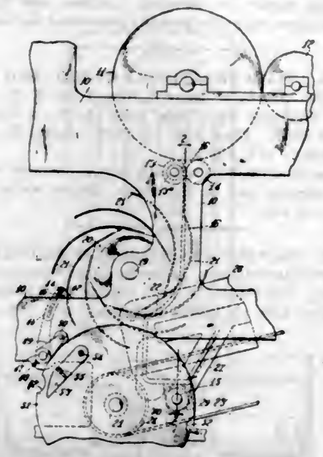
1. In combination in a furnace, a moving fuel preparing element including a generally tubular member carrying an impeller part, shaped to engage a liquid projected against it, a fuel pick up member mounted on the bottom of such tubular member in communication with the interior thereof, and an air and fuel mixing and preparing member such member provided with perforations adapted to admit air, and means for supplying fuel under pressure to such moving element, to cause the same to rotate such fuel pick-up member adapted to pick up fuel and force the same to the interior of such tubular member and from which the fuel is forced by centrifugal action to the mixing member.

1,681,161. TELEPHONE RECEIVER. NATHANIEL BALDWIN, East Mill Creek, Utah. Filed Aug. 29, 1925. Serial No. 53,350. 9 Claims. (Cl. 179—115.)



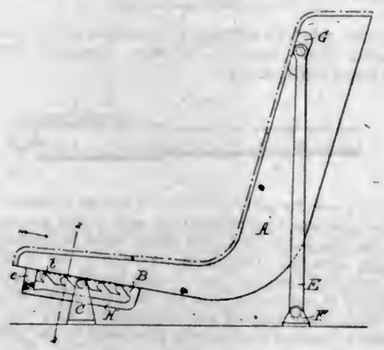
9. In combination an armature, tensioned resilient supporting means whereon said armature is mounted, an actuating coil disposed around said armature, a diaphragm, and means to connect said armature to said diaphragm.

1,681,162. DELIVERY APPARATUS FOR PRINTING PRESSES. NIELS C. ANDERSEN, Chicago, Ill., assignor to The Goss Printing Press Co., Chicago, Ill., a Corporation of Illinois. Filed May 12, 1927. Serial No. 190,926. 21 Claims. (Cl. 93—93.)



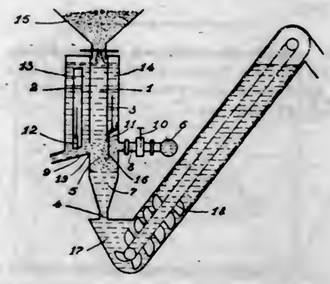
1. In a delivery apparatus for papers moving forward successively in timed relation, the combination of a receiver upon which such papers are piled, a kicker device, means for mounting the kicker device movably in position for reciprocation back and forth across the face of the receiver, and means actuated in timed relation with respect to the delivery of the papers for moving said kicker device into contact with a paper at timed intervals for causing the paper to have a different position on the receiver as compared with the papers adjacent thereto, the means for mounting and moving the kicker device being so arranged that the kicker device comes into contact with the paper in each instance by a blow on the edge of the paper while moving in a substantially straight-line motion.

1,681,163. SEAT FOR MOTOR CARS AND LIKE PURPOSES. HERBERT AUSTIN, Bromsgrove, England. Filed May 17, 1924, Serial No. 714,032, and in Great Britain May 18, 1923. 7 Claims. (Cl. 155—14.)



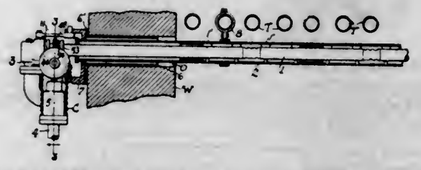
4. A seat for a motor car or like purpose comprising a seat proper, a seat back rigid therewith, struts forming the sole support for the rear of the seat, each pivoted at its upper end to the back of the seat proper at a point which is near the top of the back and pivoted at its lower end to the floor of the vehicle, and means for supporting the front of the seat from the floor, said means being such as to permit of the forward edge being moved when desired.

1,681,164. APPARATUS FOR WASHING AND SORTING COAL AND THE LIKE. FIRMIN BASCOUR, Brussels, Belgium, assignor to Societe Anonyme Cribla, Brussels, Belgium. Filed July 20, 1926, Serial No. 123,742, and in Belgium July 28, 1925. 4 Claims. (Cl. 209—157.)



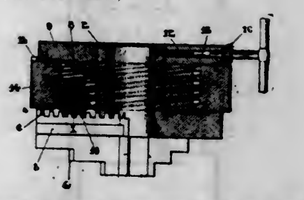
1. In apparatus for washing and separating materials of different densities, the combination of a chamber limiting an upright column of liquid having a narrow upper portion and a wider lower portion, an inlet for said materials at the top of said upper portion, an outlet at the bottom of said lower portion, means for feeding a transverse current of liquid across the foot of said upper portion comprising a side inlet at the top of said lower portion and a side outlet facing said side inlet, and an adjustable plate projecting downwardly into said lower portion and situated between said side inlet and side outlet.

1,681,165. SOOT BLOWER. LEO JOHN BAYER and FRANK A. BAYER, St. Louis, Mo. Filed Oct. 29, 1923. Serial No. 671,436. 5 Claims. (Cl. 122—392.)



1. In a soot blower for boilers, a rotatable blower unit, a steam supply pipe therefor, a valve for controlling the supply of steam to the blower unit, rotary means for controlling the opening and closing of said valve, separate means for rotating the blower unit, and means for coupling the valve-controlling rotary means with the blower uit rotating means by a continuance of the rotation of said rotary means after the valve has been unseated.

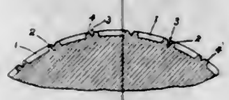
1,681,166. AUTOMATIC CHUCK. FREDERIC BECK, Neuilly, France, assignor to Societe Generale des Mandrins "Brevets Beck," Paris, France. Filed Nov. 21, 1925, Serial No. 70,539, and in France Dec. 23, 1924. 4 Claims. (Cl. 279—117.)



1. An automatic chuck comprising a work and tool carrying plate slotted at its base for the reception of jaws, said plate being formed with an axial sleeve, jaws having portions arranged in said slots and provided with racks exposed at the surface of said carrying plate, a crown member

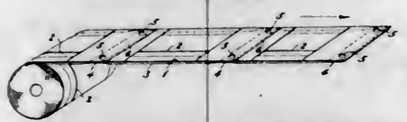
slidable to its assembled position upon said sleeve, said crown member including pinions mounted in recesses in said crown member and engageable with said racks, said pinions being removable as a unit with said crown member, and a rotatable nut having an internal worm thread engaging said pinions outside of their axes of rotation for operating them.

1,681,167. GOLF OR SIMILAR GAME BALL. GEORGE WILLIAM BELDAM, Ealing, England. Filed May 26, 1928, Serial No. 280,899, and in Great Britain June 10, 1927. 2 Claims. (Cl. 273—62.)



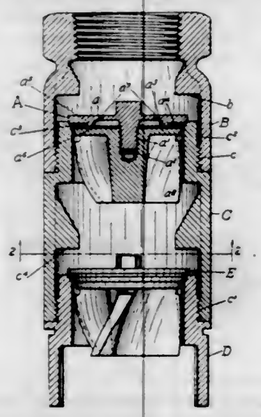
1. A golf or similar game ball having surface cross ribs or rings, and recesses or sunken parts within or surrounded by such ribs or rings, and wherein the surfaces of the ribs or rings within their outer edges are provided along the same with continuous small or narrow grooves, which intersect or run into one another, for the purpose specified.

1,681,168. RECORD STRIP. ARCHIE M. BOVIER, Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a Corporation of Canada. Filed Sept. 9, 1924, Serial No. 736,687. Renewed Oct. 11, 1927. 7 Claims. (Cl. 282—12.)



1. A pad for manifolding record devices comprising, in combination, a plurality of traveler strips attached to each other transversely at regularly spaced intervals, there being a weakened line of severance immediately in advance of each of said attachments.

1,681,169. FOOT VALVE. WILLIAM F. BRANDT, Fort Wayne, Ind., assignor to Wayne Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Mar. 24, 1924. Serial No. 701,615. 3 Claims. (Cl. 251—129.)

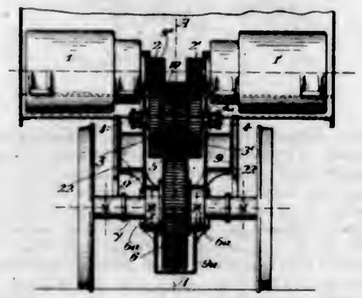


3. In a valve having a conical seat, a poppet valve having in combination an upper member, a lower member, a common conical face formed by said upper and lower members when assembled for use, an annular gasket made of material adapted to swell when wet, said gasket compressed between the peripheral edges of said upper and lower members, means for admitting the liquid above said valve through the upper plate to said gasket, said gasket extending outwardly slightly beyond the contiguous portions of said valve, and means for securing together said upper and lower members with the gasket compressed between them.

1,681,170. HAIR-TREATING METHOD AND COMPOSITION. JAMES C. BROWN, New York, N. Y., assignor to E. Frederics, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 12, 1926. Serial No. 148,108. 13 Claims. (Cl. 36—2.)

1. A method of treating hair, which includes depositing ketatin thereon and in the pores thereof while applying heat to the hair.

1,681,171. DRIVING GEAR FOR ELECTRICALLY-DRIVEN LOCOMOTIVES. JACOB BUCHLI, Winterthur, Switzerland. Filed Feb. 24, 1927, Serial No. 170,699, and in Germany July 12, 1926. 5 Claims. (Cl. 105—113.)



1. In an electrically driven locomotive, in combination, a driving wheel axle, two motors arranged opposite each other with respect to the longitudinal direction of the locomotive, two separate reduction gearings interposed between said motors and said driving wheel axle, a main frame for the locomotive to which the electric motors and said reduction gearings are rigidly connected, a hollow shaft surrounding said driving wheel axle, and a movable coupling interposed between said hollow shaft and said driving wheel axle.

1,681,172. NOVELTY PISTOL. FREDERICK S. COCHO, Columbus, Ohio. Filed Apr. 5, 1928. Serial No. 267,690. 3 Claims. (Cl. 42—1.)

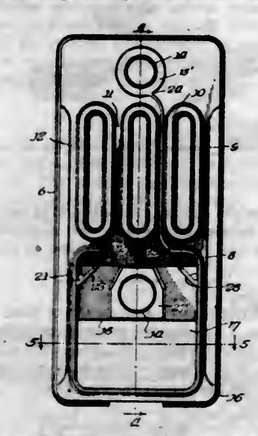


1. In a novelty pistol, a barrel, a spring actuated firing member movable longitudinally of said barrel and projecting from one end thereof, said barrel being of substantially uniform diameter throughout its length, and a movable clip arranged upon one end of said barrel for supporting the latter in connection with the garment of the user, said clip being also adapted for engagement with the firing member to control the opposite movement of the latter.

1,681,173. RADIATOR. EUGENE V. DAILY, Chicago, Ill., assignor to James B. Clow & Sons, Chicago, Ill., a Corporation of Illinois. Filed Mar. 27, 1926. Serial No. 97,860. 19 Claims. (Cl. 237—17.)

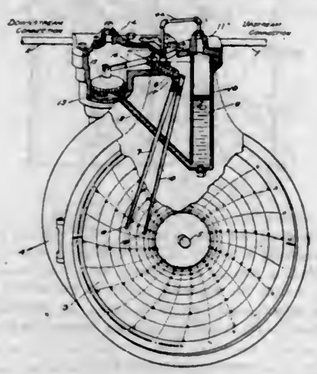
1. A radiator of the character described comprising a plurality of loops including end loops, each of said loops

comprising a plurality of hollow columns and a hollow bottom header with the columns open to said header, a continuous shell integral with the walls of said columns and below said header providing a section of a combustion chamber and having a portion of its bottom wall cut away to provide an opening through the bottom thereof, a baffle



connected to said shell over said opening whereby air entering said chamber through said opening will be directed to the chamber at the sides thereof, and a rib on said shell about a portion of the combustion chamber on the side of the shell normally disposed toward the shell of the adjacent loop, said rib being adapted to abut, throughout its length, the rib on the adjacent section.

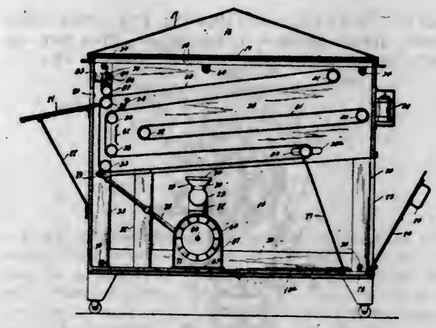
1,681,174. ORIFICE METER. JOHN C. DIEHL, Erie, Pa., assignor to American Meter Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 12, 1924. Serial No. 755,393. 4 Claims. (Cl. 234—34.)



1. In an orifice meter, the combination of a chart having designations based on the square roots of differential and line pressures to be recorded and starting at absolute zero; pen arms operating on said chart; and means responsive to differential pressure and line pressure actuating said pen arms, said means adjusting said pen arms to the differential and absolute zeros.

1,681,175. DRIER. WILLIAM DONATO, Detroit, Mich. Filed Nov. 18, 1926. Serial No. 149,102. 16 Claims. (Cl. 34—12.)

1. In a drier of the type described, a cabinet having entrance and discharge openings, means for feeding articles from the entrance opening to the discharge opening, and a unit below the feeding means for forcing heated air into contact with the traveling articles, said unit comprising a tunnel-like casing communicating at one end with the atmosphere through an opening formed in the cabinet, a



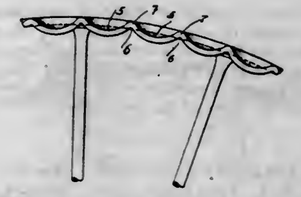
blower mounted in said casing, said casing having a discharge nozzle for the blower, a heating element mounted on the nozzle in alinement with its mouth, and an electric motor in the casing located to be coiled by the air entering the casing from the outside of the cabinet.

1,681,176. MULTIPLE DIFFUSING NOZZLE. LÉON DUFOUR, Versoix, Switzerland. Filed Jan. 6, 1925, Serial No. 896, and in Germany Jan. 19, 1924. 1 Claim. (Cl. 299—141.)



A multiple diffusing nozzle for converting the velocity of a fluid into pressure and constituted of a compound element having a plurality of passages each defined by uniformly diverging walls, the opposing walls of each passage enclosing angles of substantially 10°, the whole to the effect that the multiple passage nozzle possesses a total outlet aperture considerably larger than that which could be obtained with a single passage nozzle having the same length and the same size of inlet orifice.

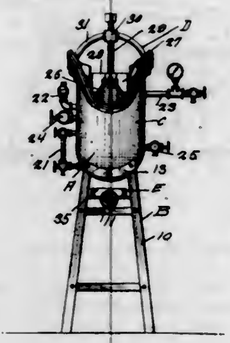
1,681,177. METHOD OF MAKING METAL WHEEL RIMS. ERNEST E. EINFELDT, Davenport, Iowa, assignor, by mesne assignments, to French & Hecht, Inc., Davenport, Iowa, a Corporation of Iowa. Original application filed Feb. 29, 1924, Serial No. 696,013. Divided and this application filed Sept. 29, 1924. Serial No. 740,434. 3 Claims. (Cl. 29—159.)



1. The method of shaping a sheet metal blank to form a wheel rim with traction lugs, which consists in bending the marginal edge of the blank at intervals alternately

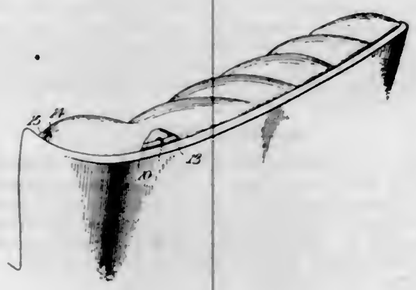
in opposite directions from a common base line coincident with said marginal edge before bending, to produce traction lugs thereon having an effective height substantially greater than the extent of bend of the metal in one direction.

1,681,178. VULCANIZING DEVICE FOR TIRE CASINGS. HARRY ERIKSON, Lowell, Mass. Filed Nov. 12, 1927. Serial No. 232,890. 1 Claim. (Cl. 18—18.)



In a tire vulcanizing device, a combined mold plate and boiler comprising an independent top plate of sheet metal forming a mold, a body portion of sheet metal defining a boiler, and out-turned flanges on the body concentric with the sides of the top plate, said top plate and flanges being rigidly secured together.

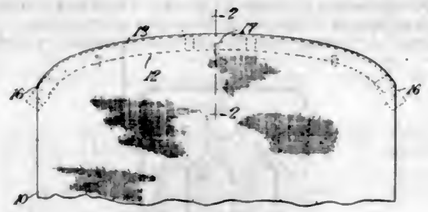
1,681,179. SEAT COVER. WALTER L. FRY, Scarsdale, N. Y., assignor to Margaret S. Fry, Scarsdale, N. Y. Filed Oct. 5, 1927. Serial No. 224,062. 5 Claims. (Cl. 155—182.)



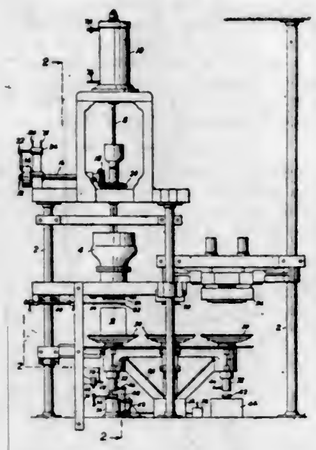
1. A structure of the kind described comprising a bar shaped to conform to and lying entirely on the top of a seat back with its end portions extending forwardly, supports to receive said end portions and take the thrust of said bar, and a cover associated with the bar and adapted to extend over the front of the seat back.

1,681,180. SEAT-COVER SUPPORT. WALTER L. FRY, Scarsdale, N. Y. Filed Feb. 3, 1928. Serial No. 251,549. 2 Claims. (Cl. 155—182.)

2. The combination with a seat back and cover therefor, having a hem at its upper edge, of a longitudinally adjustable reinforcing bar extending through the hem and having parts sliding one on the other, said bar conforming to the shape of the seat top, means on the back rest to receive and support the ends of the reinforcing bar and means entering the underpart of the hem and engaging over the meeting parts of the bar to hold the latter in place.



1,681,181. METHOD AND APPARATUS FOR PACKING CARTRIDGES. NORMAN D. FULTON, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 21, 1927. Serial No. 220,909. 10 Claims. (Cl. 86—20.)



1. In a machine for filling a shell with viscous material, means for feeding a charge of material to a shell when the shell and feeding means are located in filling relationship, and cutting means for severing material extending between the feeding means and the shell after the feeding means and shell have been relatively moved from filling relationship.

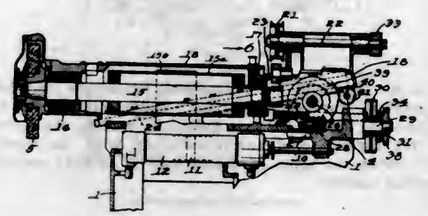
1,681,182. WHEEL. CHARLES W. HAMMETT, Port Washington, N. Y. Filed Sept. 1, 1926. Serial No. 132,937. 8 Claims. (Cl. 301—35.)



3. In a wheel rim having a recessed channel portion on the outer side thereof, symmetrically spaced and equally sized slots in the outer shoulder of said channel portion,

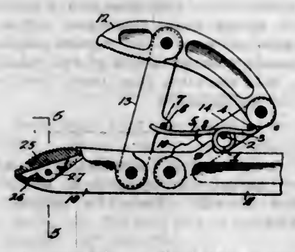
tire clamping means with symmetrically spaced and equally sized arms adapted to pass through said slots, and means attached to the channel portion for locking said clamping means into the channel when the arms of the clamp are moved between the slots while in the channel, including a pivoted device provided with spring operated pins, slots in the outer shoulder of the channel portion into which the pins can be pushed, said pivoted device being of such size as to fit snugly between adjacent arms of the clamp when the clamp is in the channel.

1,681,183. GRINDING MACHINE. JAMES N. HEALD, Worcester, Mass., and WILLIAM LAW, Hartford, Conn., assignors to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 30, 1926. Serial No. 84,881. 13 Claims. (Cl. 51—35.)



1. In a grinding machine, means for imparting rotation to substantially flat work-pieces, a grinding wheel having its axis of rotation substantially at right angles to the axis of work-piece rotation, and means for feeding said wheel into grinding position by movement in a line contained in the angle between said two axes.

1,681,184. WRENCH. ROBERT HOE, Poughkeepsie, N. Y. Filed June 28, 1924. Serial No. 722,937. 8 Claims. (Cl. 81—117.)

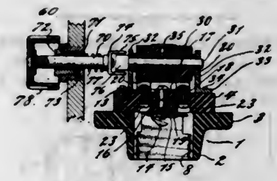


1. A wrench comprising a fixed jaw, a movable jaw, links pivotally connecting the jaws, and a spring having a coiled portion mounted on one link and having its opposite ends extended and abutting respectively against the two links to secure the tightening of the coil by the opening movement of the jaws and close the jaws by unwinding pressure of the coil.

1,681,185. METHOD OF TREATING PARTIAL OXIDATION PRODUCTS. JOSEPH HIDY JAMES, Pittsburgh, Pa., assignor to Clarence P. Byrnes, trustee, Sewickley, Pa. Filed Nov. 5, 1919. Serial No. 335,940. 19 Claims. (Cl. 87—16.)

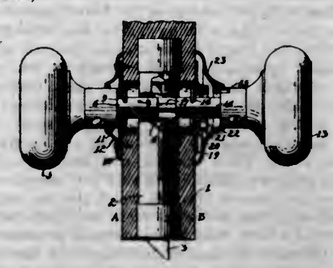
1. In the treatment of aliphatic hydrocarbons which already contain artificially-introduced chemically-combined oxygen to different degrees of oxidation including aldehyde-like bodies and oxygenated organic acids, the steps consisting of separating the acids from the other constituents of the mixture, and forming salts of said acids.

1,681,186. ELECTRICAL FITTING. JOSEPH S. JONES and SAMUEL N. MEAD, Jr., Brooklyn, N. Y., assignors to Chas. Cory & Son, Incorporated, New York, N. Y., a Corporation of New York. Filed June 11, 1923. Serial No. 644,627. 2 Claims. (Cl. 173—352.)



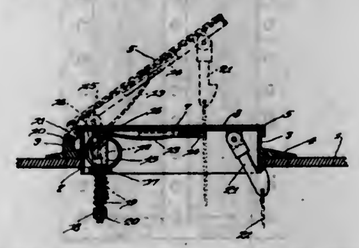
1. An electrical fitting including a tubular body and a contact base closing one end of the body, said base and body of insulating material, the base carrying an internally threaded socket extending into the body, fixed and movable contacts on the face of the base remote from the body, the movable contacts being normally spring urged to open position, and a rotor journaled on the base above the movable contacts and having cam portions to move the contacts to closed position.

1,681,187. LATCH. ARCHIE KEESLING, Campbell, Calif. Filed Oct. 19, 1926. Serial No. 142,658. 6 Claims. (Cl. 292—359.)



1. A device of the character described, comprising a latch-bar and an operating element operatively connected thereto to advance or retract the same, an operating spindle member engaging said element and movable relative thereto, a fixed support for said device, and interlocking means inserted between the fixed support and movable spindle member and rendered operable by movement of the latter relative to the support.

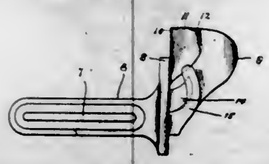
1,681,188. DOOR OPENER. LOUIS EUGENE KUPFER, Chicago, Ill. Filed Apr. 8, 1927. Serial No. 182,082. 1 Claim. (Cl. 16—1.)



In a device of the class described and in combination, a body frame, a movable frame hinged to one side of the body frame, spring members attached at one end to the body frame and their other ends loosely engaged with the movable frame for normally urging the same away

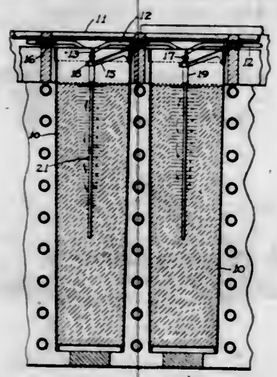
from the body frame, a perforated ear extending inwardly from one side of the body frame, a rod having pivotal connection with the movable frame and movable through said ear, a nut on the lower end of the rod, and a coil spring on the rod between the nut and ear to limit movement of the movable frame.

1,681,189. DEVICE USED IN THE MAKING OF GARMENT COLLARS. NORMAN J. MANGINI, Rochester, N. Y. Filed Apr. 13, 1926. Serial No. 101,789. 2 Claims. (Cl. 112—150.)



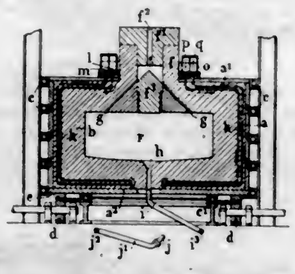
1. A device of the class described comprising means providing two channels at the intake end of the device, one above the other, said channels communicating at one side and the walls of one of the channels being arranged to turn an edge of a top collar travelling in the lower channel and having its edge extending into the upper channel the lower channel opening throughout its length laterally at the side opposite that which communicates with the upper channel, means providing a pressure channel beyond said two channels with its bottom in a horizontal plane with the bottom of the lower channel through which the turned edge, a lining and the top collar pass after issuing from the first two mentioned channels said pressure channel opening laterally throughout its length on the side on which the lower channels open, means providing above said pressure channel an additional channel through which a collar cloth may pass said additional channel opening laterally throughout its length on the same side as the lower channel, and means providing beyond said pressure channel and said last mentioned channel, a pressure channel through which the top cloth lining, the turned edge and the collar cloth may pass before issuing from the device, said last mentioned pressure channel opening laterally throughout its length on the same side as the lower channel with its bottom in a horizontal plane with the bottom of a lower channel.

1,681,190. RAW-WATER ICE-MAKING SYSTEM. JOSEPH A. MARTOCELLO, Philadelphia, Pa. Filed Sept. 1, 1922. Serial No. 585,604. 2 Claims. (Cl. 62—159.)



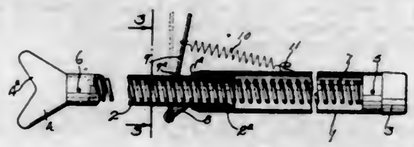
1. In a raw water system, a can, and an air pipe extending down into the can and having a bottom opening and apertured at the side extending diagonally downward from the inside of the pipe.

1,681,191. APPARATUS FOR REFINING METALS. JUVENAL MAXIMOFF and MARIA STELLA DE COSTA, born VINCENT, Versailles, and ROBERT PAUL DANIEL KREBS, otherwise known as LUC GALLICANNE, Paris, France. Filed Jan. 6, 1926, Serial No. 79,584, and in France Nov. 28, 1925. 13 Claims. (Cl. 266—34.)



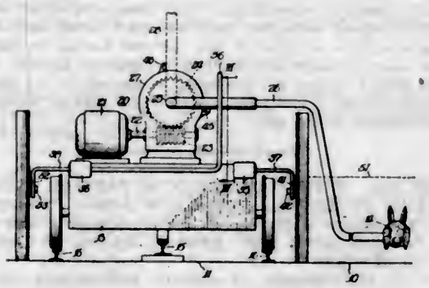
1. An apparatus for the refining of metals comprising a rotatable furnace, means for rapidly rotating the furnace about its vertical axis, means for heating the interior of the furnace, and means rotatable with the furnace for cooling the walls of the furnace to prevent excessive heating thereof.

1,681,192. VEHICLE BRAKE-PEDAL-HOLDING MEANS. ARTHUR C. MCBRIDE, San Diego, Calif. Filed Feb. 23, 1926. Serial No. 89,922. 4 Claims. (Cl. 74—81.)



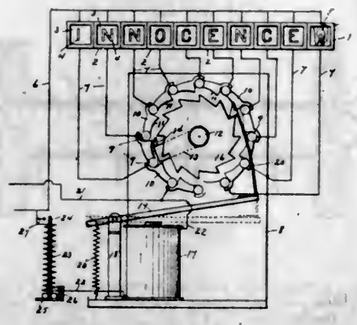
1. In a device of the class described, a pair of telescoping tubes, a spring means positioned within said tubes tending to force the same in one extreme position, and friction stop means mounted on one of said tubes tending to frictionally hold the other from being forced against the action of the spring means.

1,681,193. DOG-RACING APPARATUS. SOLOMON M. PINELES, Chicago, Ill., assignor to Harry B. Staver. Filed Sept. 26, 1927. Serial No. 221,865. 8 Claims. (Cl. 272—4.)



1. In a dog racing apparatus comprising a racing course, a rail track along said course and an electrically propelled carriage on said rail track, a lure supported by said carriage, a reversible electric motor for moving said lure towards and away from said course, energizing circuits for said motor, and switching means for causing said motor to rotate in one direction for lifting said lure and to rotate in the opposite direction to lower said lure.

1,681,194. SIGN FLASHER. JOHN G. RUCKELSHAUS, Newark, N. J. Filed Oct. 23, 1924. Serial No. 745,347. 6 Claims. (Cl. 200—11.)



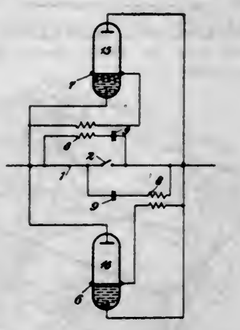
6. In an electric switch of the class described, a series of contact posts arranged in circular spaced relation about a center, a bridging member carried by each of said posts and consisting of an arm projecting toward the next adjacent post in the series, said arm having its inner edge curved to form a cam and being provided at its outer free corner with a stop finger positioned to engage the next succeeding post upon the arm being swung to the inner limit of its movement and thereby close contact with said next succeeding post, spring means urging said fingers into contact with the respective posts, a camming member pivoted concentrically of the series of posts and positioned to successively engage the cam surfaces of said bridging members, and means to rotate said camming member, said camming member and the cam surface of the bridging members being arranged for simultaneous closing of each contact and opening of the next succeeding contact.

1,681,195. PROCESS FOR PRODUCING ZIRCONIUM COMPOUNDS. FRIEDRICH RÜSBERG, Mannheim, and PAUL SCHMID, Mannheim-Wohlgelegen, Germany, assignors to the Firm Rhenania-Kunheim Verein Chemischer Fabriken A.-G., Berlin, Germany. Filed Nov. 12, 1927, Serial No. 232,934, and in Germany Dec. 13, 1926. 6 Claims. (Cl. 23—16.)

1. In the process of producing zirconium compounds the steps comprising mixing zirconium ores with earth alkalies and earth alkali metal halogenides in absence of carbonaceous matter, heating the mixture to sintering temperature, treating the sintered product with a quantity of hydrochloric acid insufficient to dissolve the basic constitutents of the product, separating the solution, and adding hydrochloric acid thereto.

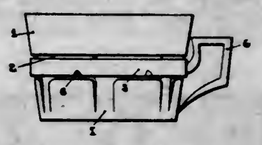
1,681,196. DEVICE FOR BREAKING THE CONNECTIONS OF ELECTRIC CIRCUITS. REINHOLD RÜDENBERG, Berlin-Grunewald, RUDOLF G. BERTHOLD, Berlin-Siemensstadt, and KARL DONAT, Berlin-Charlottenburg, Germany, assignors to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed July 2, 1926, Serial No. 120,194, and in Germany June 30, 1925. 8 Claims. (Cl. 175—294.)

1. In a device for breaking an electric circuit by means of a gas discharge tube having at least one ignition electrode and being connected in parallel relation to the main switch, an oscillation circuit connected to the two



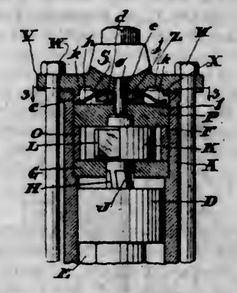
sides of said switch and adapted to be excited by the opening arc of said switch and to operate the ignition elecrode of said gas discharge tube.

1,681,197. VESSEL WITH HANDLES. RENÉE RUEFF, Paris, France, assignor to Société Economique de Paris, Paris, France, a Corporation of France. Filed July 29, 1927, Serial No. 209,331, and in France May 21, 1927. 1 Claim. (Cl. 65—13.)



A vessel comprising in combination a cup provided with a circumferential groove, the bottom wall of said groove being formed with a plurality of inclines, said cup being formed with a plurality of other grooves leading into the circumferential groove at an angle, a detachable collar with a handle, said collar being provided with a plurality of projecions adapted to enter said circumferential groove through said other grooves and to engage said inclines by rotation of said collar, to cramp the cup.

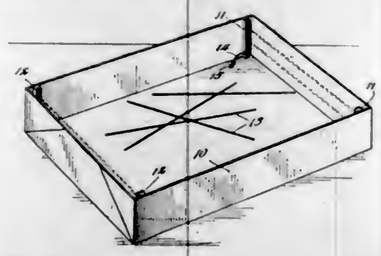
1,681,198. ROCK DRILL. FRED M. SLATER, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 18, 1926. Serial No. 149,128. 8 Claims. (Cl. 121—19.)



1. In a fluid actuated rock drill, the combination of a cylinder having a piston chamber with an enlarged bore at one end, a valve block in the bore, a back head for the cylinder cooperating with the valve block to form a valve chamber, means extending through the valve chamber for

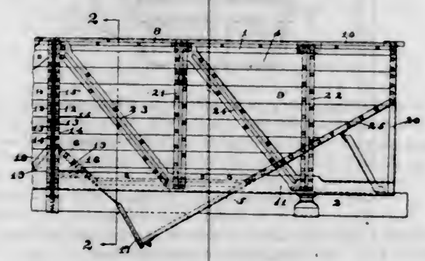
conveying cleansing fluid through the drill, and a spring in the valve chamber encircling the said means pressing against the back head and the valve block to hold said valve block immovable in the bore.

1,681,199. PACKING BOX. MAURICE SPITZER, New York, N. Y. Filed Nov. 18, 1927. Serial No. 234,064. 2 Claims. (Cl. 206—7.)



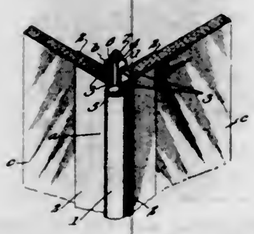
1. A packing box for garments having a pair of open slideways on its sides near each of its ends, and a plurality of rods adapted to be inserted in each pair of slideways from their upper ends so that each dress may be folded over a rod as the box is packed.

1,681,200. CAR CONSTRUCTION. GEORGE A. SUCKFIELD, Avalon, Pa., assignor to Pressed Steel Car Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed May 19, 1926. Serial No. 110,057. 6 Claims. (Cl. 105—249.)



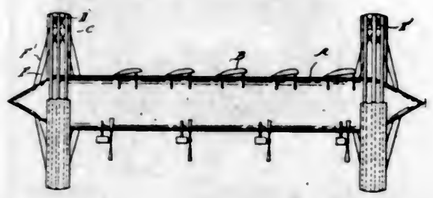
1. In a car wall, a metallic framing, a member secured to said framing and extending inwardly through the plane of said wall, and sheathing secured to said framing independent of said member.

1,681,201. ANGLE BAR FOR SHOW WINDOWS AND THE LIKE. HENRY F. A. WACHTER, Peru, Ill. Filed Dec. 8, 1925. Serial No. 74,012. 1 Claim. (Cl. 189—78.)



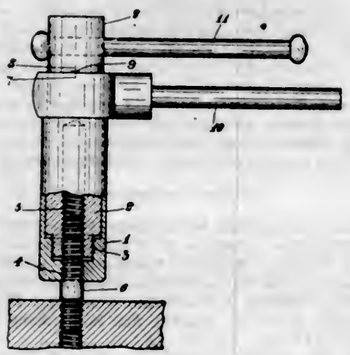
An angle bar for show windows and the like, comprising a pair of similar interchangeable pane-engaging strips adapted to be bent so as to be arranged at the juncture of the panes to be secured and contacting with opposite sides of said panes, and a bolt having its head detachably engaged by one of said strips and movable therein when in adjusted position and carrying a nut adjustably cooperating with the other of said strips for clamping the panes between the strips.

1,681,202. SAFETY APPLIANCE FOR AEROPLANES. WILLIS C. WARD, Orchard Lake, Mich. Filed Sept. 12, 1927. Serial No. 219,029. 2 Claims. (Cl. 244—2.)



1. The combination with an aeroplane having a fuselage, of cushioning means surrounding said fuselage comprising annular inflated tubes and a skeleton framework connecting said tubes with the body of the fuselage.

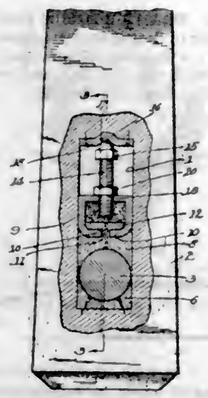
1,681,203. STUD SETTING AND LOOSENING TOOL. NILS HALVAR WESTERBERG, Hjorthagen Vartan, Sweden. Filed Dec. 1, 1924, Serial No. 753,059, and in Sweden Dec. 10, 1923. 4 Claims. (Cl. 81—53.)



1. A tool for fastening and loosening studs, comprising two members provided with screw-threaded holes for receiving a stud, and each provided with a handle, the threads of said holes being of the same pitch, said members being joined by means of screw-threads in such manner that by being turned in relation to one another they will be jammed onto a stud screwed into the holes in the members.

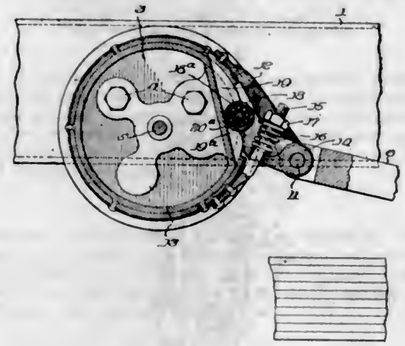
1,681,204. ADJUSTABLE BEARING. JAMES W. WHITELOCK and JAMES W. CASE, La Habra, Calif. Filed July 22, 1925. Serial No. 45,237. 4 Claims. (Cl. 308—67.)

2. The combination of a split bearing, a hollow block open at its bottom and having webs projecting from its side walls, and a backing on one section of the split bearing adapted for reception in the open bottom of the hollow block with the projecting webs overlying the backing so as to prevent displacement of the section of the split bearing on which the backing is formed and close the bottom of the hollow block whereby the hollow block forms a reservoir,



the backing and the section of the split bearing upon which it is formed having a bore opening therethrough from the reservoir to the bearing surface of the split bearing.

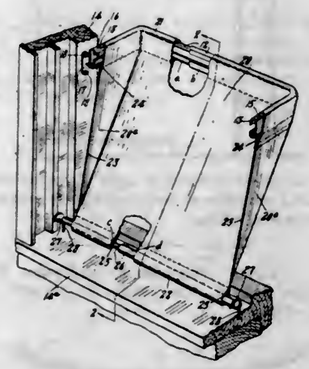
1,681,205. SHOCK ABSORBER. THERON H. WILLIAMS, Chicago, Ill. Filed Oct. 4, 1926. Serial No. 139,298. 16 Claims. (Cl. 188—130.)



1. A shock absorber adapted to retard the relative movement between two parts of a vehicle, comprising a curved friction member on one of said parts, a band engaged by said member, means connected to the other part for rotating said band in accordance with such movement, said friction member having cam means associated therewith, and means operable upon the rotation of said band and controlled by said cam means for increasing the friction between said member and band in accordance with the rotational movement thereof in either direction.

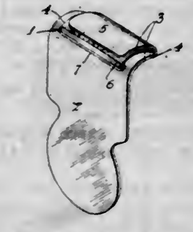
1,681,206. WINDOW VENTILATOR. OSBORNE R. WITTER, Swampscott, Mass.; Lawrence Osborne Witter administrator of said Osborne R. Witter, deceased. Filed Oct. 21, 1927. Serial No. 227,668. 2 Claims. (Cl. 98—99.)

1. A window ventilator comprising an angular upper cross-bar including a neck portion and arms projecting laterally therefrom and having securing means attachable to upright members of a window casing, to support the cross-bar, and maintaining the neck portion invariably spaced from the casing, a straight lower cross-bar formed to extend between said upright members, and having means attachable to the sill member of the casing, and a flexible windshield having an elongated upper edge, formed by an upper pocket adapted to receive the neck portion and the



arms of the cross-bar, a shorter lower edge, formed by a lower pocket adapted to receive the lower cross-bar, and intermediate straight edges extending between said pockets, the upper cross-bar being composed of sheet metal having stiffening flanges formed on the opposite longitudinal edges of the neck and arm portions thereof, so that said cross-bar is of minimum weight and adequate stiffness.

1,681,207. CORN RAZOR. EDWARD H. ANSHELM, Brooklyn, N. Y., assignor to Akon Safety Razor Co., Inc., New York, N. Y., a Corporation of New York. Filed June 12, 1926. Serial No. 115,446. 1 Claim. (Cl. 30—23.)

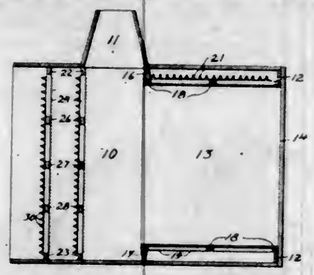


A corn razor embodying an elongated sheet metal blank provided intermediate its ends with a transverse slot, one end of the blank serving as a handle portion and the other end of the blank being returned upon itself to form a clamping portion, and a sharp edged blade permanently secured in position by the clamping portion with the sharp edge of the blade extending substantially across the slot, and parallel to the far edge of the slot, said clamping portion and blade being of curvilinear section.

1,681,208. COMBINED AMPLIFYING MEGAPHONE AND REFLEX RESONATOR FOR SOUND-EMITTING MACHINES. FRANK D. ARNOLD, Humboldt, Iowa. Filed Jan. 22, 1926. Serial No. 82,997. 13 Claims. (Cl. 181—27.)

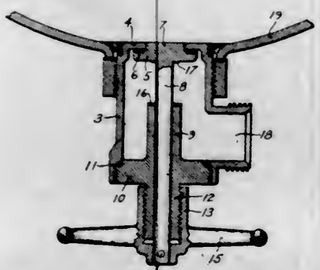
1. A combined amplifying megaphone and reflex resonator for sound emitting machines comprising a housing, a receiving device mounted on and communicating thru the

top thereof, said receiving device being formed as a truncated pyramid adapted to receive sound at its smaller end, a minor housing mounted in the first housing, a harp sur-



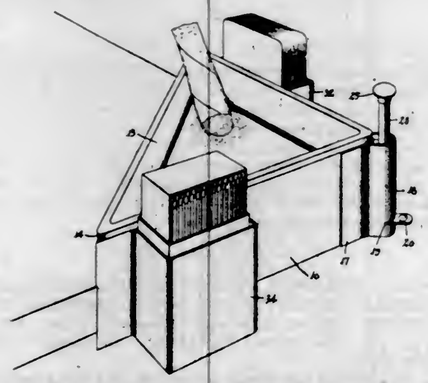
rounding the minor housing, a back plate for said minor housing, and a plurality of harps selectively arranged within the first-named housing.

1,681,209. VALVE. HERBERT E. ATKINSON, Rochester, N. Y. Filed Aug. 18, 1924. Serial No. 732,680. 1 Claim. (Cl. 251—155.)



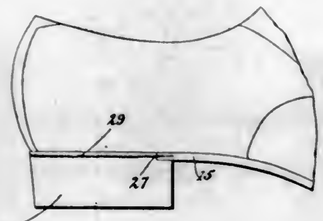
In a valve, the combination of a body provided with a valve-seat, at its inlet end, and threaded to receive a plug at the other end; a plug screwed into the body; a disc-valve cooperating with the valve-seat; a stem supporting the valve-disc and passing through the plug; and means for moving the valve-stem to open and close the valve; the body being provided with a lateral outlet substantially flush, at its outermost portion, with the inner surface of the plug.

1,681,210. RECEPTACLE. REEVE H. BANKS, Pittsburgh, Pa. Filed Nov. 16, 1926. Serial No. 148,754. 5 Claims. (Cl. 45—75.)



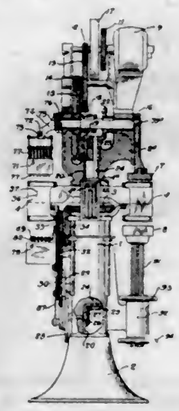
1. A device of the character described comprising a shell having a bottom to seat on the corner portion of a table top and sides extending upwardly from the margin of said bottom, two of said sides extending below said bottom to fit astride said corner portion.

1,681,211. SHOE. WILLIAM RODERICK BARCLAY, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 24, 1926, Serial No. 131,284, and in Great Britain Sept. 1, 1925. 3 Claims. (Cl. 36—35.)



1. A shoe having an upper, an outsole and a cushion heel of yielding material, said yielding material concealing the edge of the heel-seat end of the sole except at the breast end of the heel, where the entire width of the sole overlaps the heel for a short distance.

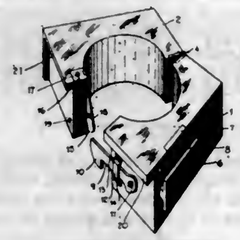
1,681,212. PROCESS OF MAKING PAPER BOXES AND THE LIKE. SAMUEL BERGSTEIN, Middletown, Ohio, assignor to The Interstate Folding Box Company, Middletown, Ohio. Filed Dec. 15, 1924. Serial No. 755,931. 3 Claims. (Cl. 93—49.)



2. The herein described process of making paper boxes consisting in causing box blanks to be folded over forms with flaps at opposite ends extended, and moved step by step with operating pauses between steps through a sequence of simultaneous folding, gluing of folded portions, and joint forming operations at opposite ends of the box whereby to effect the structure thereof, the respective operations resulting simultaneously on different boxes.

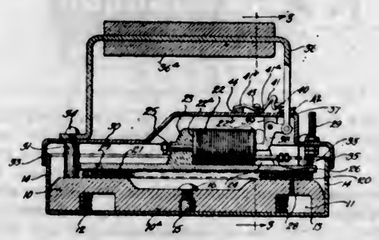
1,681,213. MILK-BOTTLE LOCK. WILLIAM BISCHAN, Bronx, N. Y., assignor to Bot-Lok Co. Inc., New York, N. Y., a Corporation of New York. Filed June 9, 1927. Serial No. 197,579. 1 Claim. (Cl. 282—41.)

A milk bottle locking device comprising a body for attachment to a door-frame to dispose one end thereof in abutting relation with the door, said body including stationary and movable members designed to engage the neck of a bottle, said body having a lock enclosure to be closed by the door, and coacting locking means carried by said members and arranged on said enclosure, being accessible



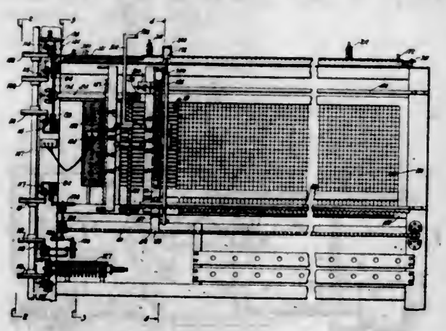
only when the door is opened, one of said locking means being a strip with a pin when downwardly arranged adapted to engage a latch and when upwardly arranged is adapted to receive notes.

1,681,214. CONSTRUCTION FOR FLATIRONS. ROBERT S. BLAIR, Stamford, Conn. Filed Feb. 26, 1923. Serial No. 621,157. 22 Claims. (Cl. 219—25.)



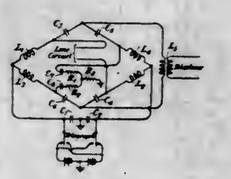
6. In construction for flat-irons, in combination, a casing, a movable handle member thereon, a coil within said casing, means adapted to lead current to said coil, a variable resistance controlling the flow of said current, and means controlled by movement of said handle adapted to effect said variable resistance.

1,681,215. TELEPHONE-EXCHANGE SYSTEM. WILLIAM G. BLAUVELT, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 15, 1927. Serial No. 206,088. 27 Claims. (Cl. 179—27.5.)



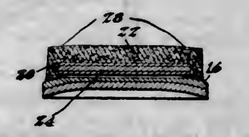
1. In a telephone exchange system in which the terminals of a group of incoming lines intersect the terminals of a group of outgoing lines and in which the terminals of incoming and outgoing lines are interconnected by means under the control of a common operating mechanism, the method of establishing connections which consists in causing the operating mechanism to select a connecting means individual to an incoming line, move it to a position for connecting with a desired outgoing line, and cause it to interconnect the incoming line to which it is individual to a desired outgoing line, and returning the operating mechanism to its position of rest.

1,681,216. COMPOSITE SET. DAVID E. BRANSON, Bloomfield, N. J., and ROY B. SHANCK, Flushing, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 26, 1927. Serial No. 171,219. 4 Claims. (Cl. 179—4.)



1. A transmission line, a connecting means serially included in said line, a telephone circuit associated with said line through said connecting means, a composite set including a telegraph bridge across said line circuit, telegraph legs associated with each side of said line circuit through said bridge, and auxiliary balancing circuits connecting each of said telegraph legs to sides of said connecting means opposite to those to which said telegraph legs are connected through said bridge.

1,681,217. COMPOSITE HEEL. DARIUS W. BUNKER, Quincy, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 12, 1926. Serial No. 94,201. 7 Claims. (Cl. 36—35.)

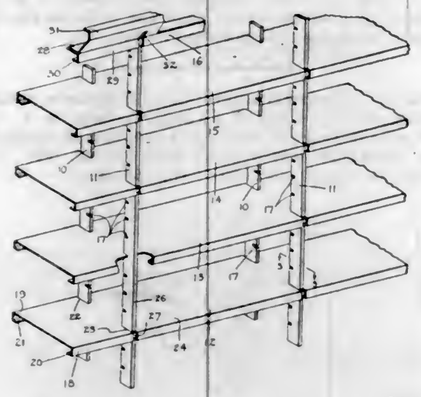


1. A composite heel comprising a base section having a concave attaching face shaped to correspond approximately to the heel seat of a shoe and an outer face the central portion of which is substantially flat and the marginal portion of which is beveled, and a molded top section including a substantially flat insert of non-moldable material at the central portion of the attaching face of said top section and surrounded by a raised, inclined, molded rim, shaped to fit approximately the beveled marginal portion of the base.

1,681,218. SHELF FIXTURE. FRITZ N. CARLSON, Minneapolis, Minn. Filed Mar. 1, 1926. Serial No. 91,352. 7 Claims. (Cl. 211—136.)

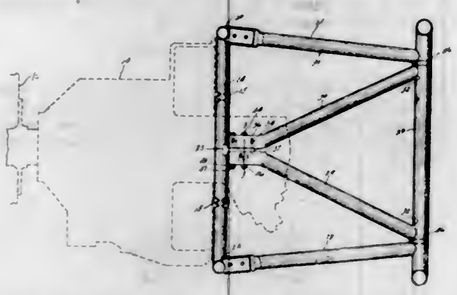
1. In combination, a standard of rectangular cross section, formed with kerfs along one edge thereof, a shelf having a flange depending therefrom and a lip extending inwardly from the lower edge of said flange, said shelf having a slot extending through said flange and lip for the edgewise reception of said standard, the portion of said shelf at the end of said slot being adapted to enter one of the kerfs in said standard, said slot being of a depth sufficient to bring

the outer edge of said standard within said flange, and a flat key of a width equal to the distance between said shelf and lip, held edgewise therebetween, and lodged on one side



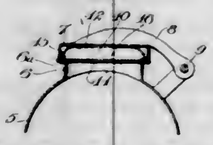
against the inner surface of said flange and on its other side against the outer edge of said standard for holding said shelf in place upon said standard.

1,681,219. ENGINE MOUNTING. HAROLD CAMINEZ, Farmingdale, N. Y. Filed Apr. 2, 1927. Serial No. 180,499. 10 Claims. (Cl. 244—31.)



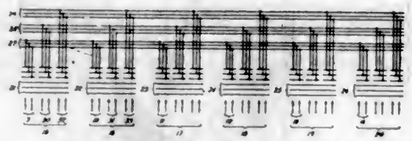
10. A mount for radial internal combustion aircraft engines comprising a fuselage frame, means for fastening said engine in front of said frame to vertically and horizontally support the entire weight of the engine on said frame in a rigid manner, and compressed elastic strips interposed between the engine and the frame so that the weight of the engine is not applied to the strips for absorbing motor torque reactions.

1,681,220. KEY PAD FOR WIND INSTRUMENTS. ANTHONY CICCONE, Fort Wayne, Ind. Filed Oct. 28, 1924. Serial No. 746,378. 7 Claims. (Cl. 84—380.)



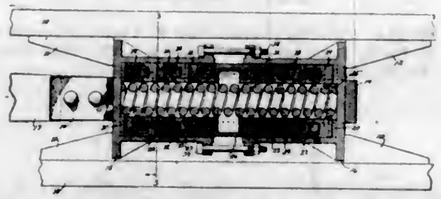
1. A key-pad for wind musical instruments comprising a filler cushion, a pliable facing therefor, and a ply of permanent impression-retaining material between the cushion and the facing.

1,681,221. TELEPHONE-EXCHANGE SYSTEM. PAUL P. COGGINS, Newark, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 16, 1927. Serial No. 219,906. 5 Claims. (Cl. 179—18.)



1. The combination of a plurality of groups of incoming lines, a group of outgoing lines individual to each said group of incoming lines, and a group of outgoing lines common to one subgroup only of each of said groups of incoming lines.

1,681,222. DRAFT GEAR. WALTER H. COTTON, Chicago, Ill., assignor to Union Draft Gear Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 29, 1923. Serial No. 659,866. 13 Claims. (Cl. 213—28.)

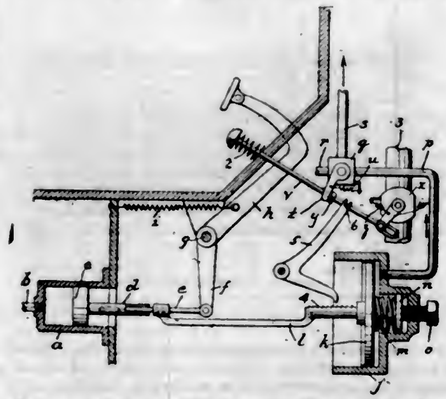


1. In a draft gear, in combination, a chambered follower, an annular series of inclined surfaces within the chamber and formed on a transverse wall thereof, a rotative element having a complementary series of inclined surfaces, spring means opposing turning movement of the rotative element, and means resisting axial movement of such element.

1,681,223. METHOD OF PRODUCING FIBROUS THREAD. JOAQUIN JULIO DE LA ROZA, Sr., Brooklyn, N. Y., assignor to Bagasse Products Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 22, 1927. Serial No. 177,465. 12 Claims. (Cl. 92—5.)

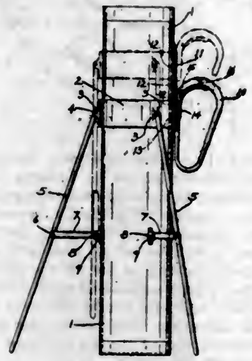
1. A method of producing textile fibers from sugar cane, which includes the steps of permitting the cane to ferment so as to initiate the generation of acids and then retting the fibrous part of the cane with running water.

1,681,224. BRAKING MECHANISM FOR AUTOMOBILES. ELEUTHERE PAUL DU PONT, Montchanin, Del. Filed Apr. 11, 1927. Serial No. 182,581. 6 Claims. (Cl. 192—3.)



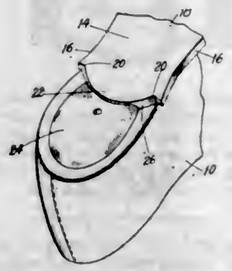
3. The combination with an automobile provided with an engine and a brake adapted to be applied under the influence of fluid pressure, of a cylinder for fluid connected with the brake, a piston in said cylinder actuatable to effect application and release of said brake, a brake pedal, a connection between said pedal and said piston whereby said piston may be operated by said pedal to effect application of the brake, means independent of said brake pedal operative to actuate said piston to effect application of the brake, an accelerator pedal for controlling the supply of fuel to the engine and means controlled by the accelerator pedal for rendering said last mentioned means operative and inoperative.

1,681,225. GOLF BAG. HERMON EARL, Piqua, Ohio. Filed May 9, 1924. Serial No. 712,181. 2 Claims. (Cl. 150—1.5.)



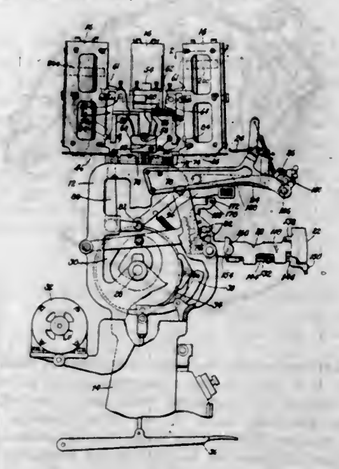
1. The combination with a golf bag, of a sleeve slidably mounted thereon, means pivotally secured to said sleeve to brace the bag for support in an upright position upon the ground, a handle on said sleeve, formed with a hole in its side adjacent the bag, the latter having holes with which the hole in the handle is adapted to be brought into registry, a locking member pivotally secured within the handle and having a projection adapted to pass through the hole therein for entrance into any one of said holes in the bag, and resilient means inserted between the locking member and the handle, for the purpose specified.

1,681,226. MANUFACTURE OF SHOES. THOMAS C. ERSKINE, Columbus, Ohio, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 15, 1924. Serial No. 743,806. 10 Claims. (Cl. 12—142.)



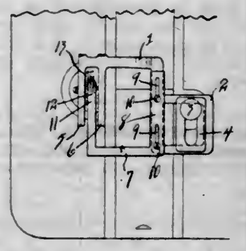
5. That improvement in the manufacture of shoes which consists in forming a tongue upon the heel-seat end of an unfinished sole extending rearwardly of the breast line of the heel, each lateral edge of said tongue forming one side of a notch the corner of which lies on a line to which the edge of the sole is to be finished, said notch being adapted to receive a projecting corner of the breast of the heel, locating the heel with respect to said sole by means of said notches, and attaching it to the shoe over said tongue.

1,681,227. PRESENTING APPARATUS. FREDERICK M. FURBER, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 19, 1924. Serial No. 714,349. 38 Claims. (Cl. 12—39.)



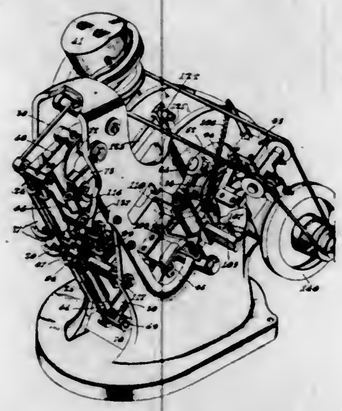
1. In an apparatus of the class described, the combination with an article-transferring member movable between an article-receiving position and an article-delivering position, of a plurality of magazines adapted and arranged to contain articles of different sizes and selectively to be located in article-delivering position by relative movement of the magazines and the article-transferring member, and the magazines and said member being relatively adjustable to enable articles of different sizes to be delivered from the magazines and directly to said member with corresponding portions of the articles similarly located thereupon.

1,681,228. HEMSTITCHER. BENJAMIN F. GILBERT, Fort Worth, Tex. Filed Sept. 13, 1926. Serial No. 135,079. 3 Claims. (Cl. 112—179.)



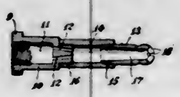
1. A hemstitcher comprising a body member having a pair of cloth holding springs disposed on opposite sides of a sewing machine needle and a loop for adjustably mounting said body on a sewing machine bed, means for fixedly attaching said loop to the machine bed, and a fabric separating member attached to said body member and having an arm provided with a slot for the passage of the needle and stitches and having bent under ends forming springs and located between said cloth holding springs.

1,681,229. FASTENER-SETTING MACHINE. PERLEY R. GLASS, Wayland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 14, 1921. Serial No. 496,666. 60 Claims. (Cl. 218—152.)



1. A fastener-setting machine comprising a fixed duplex clenching tool, two fastener-inserting tools arranged in duplex relation to cooperate with said clenching tool, means for punching holes in two work elements in confronting relation, and duplex work-feeding mechanism for transferring the punched holes from the punching locality to the fastener-setting locality.

1,681,230. GAS-SAVING DEVICE. ELIAS GOOSSIDE, Brooklyn, N. Y. Filed Jan. 25, 1927. Serial No. 163,330. 1 Claim. (Cl. 67—120.)



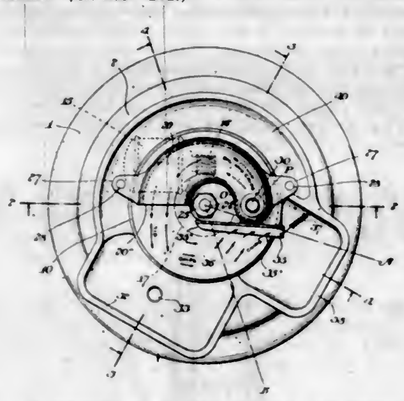
A device of the class described, comprising substantially two tubular shaped members threaded one upon the other, a chamber formed in the hindmost of said members, two bores provided in the wall of said chamber and constructed to converge in a forward manner, a bullet-shaped substantially flat faced tip threaded into the frontal member of the aforesaid two, the said tip being formed with two slits, disposed at a right angle to each other, across its flat-faced end-surface only, substantially as and for the purpose set forth.

1,681,231. RAIL-HEATING DEVICE. WILLIAM H. GREENFIELD, Philadelphia, Pa. Filed May 12, 1927. Serial No. 190,932. 10 Claims. (Cl. 246—428.)



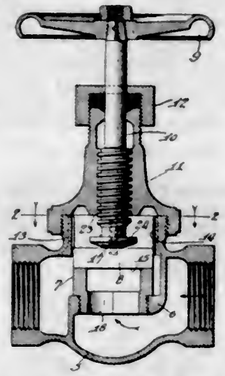
1. A rail heating device comprising a bare electric heating element, and means to support said element in spaced relation from the rail with air serving as the sole medium of heat transmission therebetween.

1,681,232. OIL CLEANER. PETER P-G. HALL, Philadelphia, Pa. Filed July 8, 1924. Serial No. 724,918. 9 Claims. (Cl. 209—222.)



1. In a machine of the class described, the combination of a magnetizable element, means for rotating the element, means for maintaining magnetized and unmagnetized zones on the element, a conduit of gradually increasing width disposed on the element, non-rotatable therewith and adapted to convey a stream of oil over said magnetized zone and to discharge said oil on the surface of the element, and automatically operative means adapted to remove from the element metallic particles abstracted from the oil and adhering thereto after the rotation of the element has carried said particles out of the line of flow of said oil and into said unmagnetized zone.

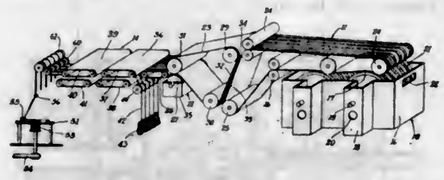
1,681,233. VALVE. JOHN ERNEST HART, Williamsport, Pa. Filed Mar. 21, 1927. Serial No. 176,906. 4 Claims. (Cl. 251—139.)



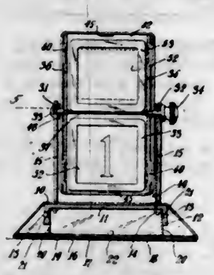
1. A valve having a casing, a valve seat, a valve disk loosely mounted on said seat, vertical valve disk guides extending away from said seat and at right angles to its plane and means for pressing said disk against said seat, said guides being spaced above said seat a distance somewhat less than the thickness of said disk.

1,681,234. PROCESS AND APPARATUS FOR MAKING YARN. JOHN ALLEN HEANY, New Haven, Conn., assignor to World Bestos Corporation, Paterson, N. J., a Corporation of Delaware. Filed July 27, 1923, Serial No. 654,117. Renewed Jan. 12, 1928. 7 Claims. (Cl. 117—2.)

1. The hereindescribed process of making asbestos yarn, which comprises forming a pulp from asbestos material, withdrawing said asbestos material from said pulp in the form of a felted strip or band and advancing said strip or band, compressing the strip or band as it advances, moistening the strip or band as it advances, advancing a filament with the advancing strip or band and forming the strip or band around the filament, to form a strand, and twisting the advancing strand into a yarn.

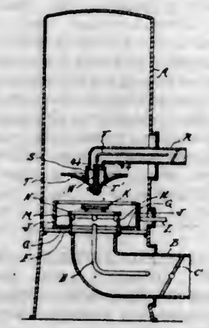


1,681,235. DESK CALENDAR. WILLIAM C. HIERING, Newark, N. J., assignor to J. E. Mergott Co., Newark, N. J., a Corporation of Delaware. Filed Oct. 2, 1926. Serial No. 139,136. 5 Claims. (Cl. 40—114.)



3. A desk calendar provided with a hollow rectangular base having flaring side and end walls, a bottom member having a cushioned lower surface, spring detents fixed in said bottom member, to extend into said base, and a plate fixed in said base having down-reaching apertured ends to receive said detents, said bottom member forming a close fitting closure to said base and extending slightly below the edges thereof.

1,681,236. OIL BURNER. JAMES H. JACKSON, Detroit, Mich. Filed July 2, 1927. Serial No. 202,985. 5 Claims. (Cl. 158—91.)

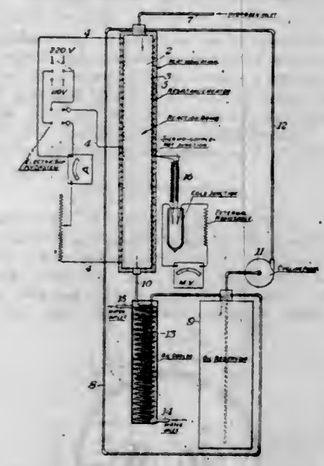


2. In an oil burner, in combination with gravity-fed means for releasing oil in predetermined quantities, a cooling pipe spacedly surrounding the delivery end of said oil pipe, an apertured baffle member positioned in axial alignment with the end of said oil pipe and through which the oil particles released therefrom are adapted to pass by gravity, an oil-confining trough member positioned subjacently of said oil pipe and said baffle member, a burner plate supported by selected portions of said oil trough member in axial alignment with the oil supply pipe and said baffle, and means for primarily heating said burner plate and for thereafter deflecting theretowards a supply of air for commingling with the oil particles atomized by contact with said burner plate.

1,681,237. INSOLUBLE SOAP AND METHOD OF MAKING AN INSOLUBLE SOAP FROM ALDEHYDE FATTY ACID MIXTURES OF MINERAL OIL. JOSEPH HIDY JAMES, Pittsburgh, Pa., assignor to Clarence P. Byrnes, trustee, Sewickley, Pa. Filed Mar. 7, 1919. Serial No. 281,197. 7 Claims. (Cl. 87—16.)

1. The method of treating a partial oxidation product of mineral oil containing aldehyde fatty acids, consisting in separating the aldehyde fatty acids from the other constituents of the partial oxidation product, and forming substantially insoluble soaps of said acids.

1,681,238. PURIFYING PARTIAL OXIDATION PRODUCTS. JOSEPH HIDY JAMES, Pittsburgh, Pa., assignor to Clarence P. Byrnes, trustee, Sewickley, Pa. Filed Dec. 14, 1925. Serial No. 75,203. 8 Claims. (Cl. 260—116.)

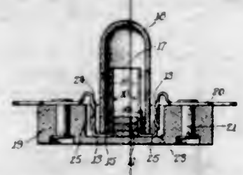


1. In the treatment of a mixture of hydrocarbons which are liquid at normal temperatures and pressures and which already contain artificially-introduced chemically-combined oxygen to different degrees of oxidation in the range from alcohols through aliphatic aldehyde-like bodies to oxygenated organic acids, the step consisting of purifying the same by chemically adding to unsaturated bonds thereof.

1,681,239. ELECTRICAL FUSE. CHESTER A. JOHNSON and HERVEY DANA HARLAND, Chicago, Ill., assignors to Chicago Fuse Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 7, 1924. Serial No. 748,366. 14 Claims. (Cl. 200—130.)

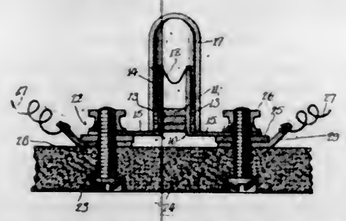
1. An electrical fuse comprising, in combination, a pair of contact members each having fuse supporting and contact legs, an insulating member holding said fuse support-

ing legs in opposed relation, a fuse element connected to said supporting legs, and a protecting case for said fuse element extending between said fuse supporting legs and



said contact legs and snugly receiving said insulating member at the end thereof adjacent the contact legs of said members.

1,681,240. ELECTRICAL FUSE. CHESTER A. JOHNSON and HERVEY DANA HARLAND, Chicago, Ill., assignors to Chicago Fuse Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 29, 1925. Serial No. 5,427. 4 Claims. (Cl. 200—131.)



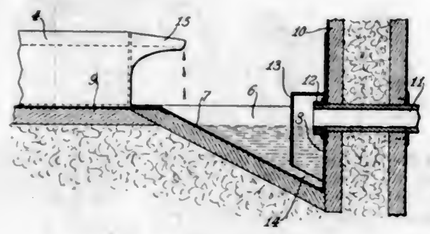
1. An electrical fuse comprising, in combination, a transparent case having an insulating plug closing the end thereof, and two L-shaped metallic strips each having one leg passing through an aperture in said plug into the space within said case, the inner ends of the latter legs being joined by a fuse element, the other legs of said strips projecting laterally from said case to provide external contacts.

1,681,241. COMBINATION SWITCH. WILLIAM KAISLING, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Original application filed Dec. 15, 1922, Serial No. 607,045. Divided and this application filed Mar. 31, 1924. Serial No. 703,011. 4 Claims. (Cl. 200—167.)



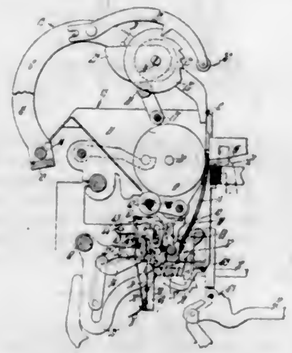
1. In a switch of the class described including a cup-shaped mounting plate, a designating plate, a transparent plate for fitting into said mounting plate and adapted to engage said designating plate, and cylindrical members extending through openings in said plates and having their ends distorted whereby said designating and transparent plates are secured together by said cylindrical members to said mounting plate and a ring member adapted to engage said transparent plate to maintain the said transparent and designating plates in their proper relation and tabs integral with said ring extending through orifices in said mounting plate to secure the same to said mounting plate.

1,681,242. SHOW-CASE REFRIGERATOR. CHARLES E. KLAUS, St. Louis, Mo., assignor to Harry L. Hussmann Refrigerator Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 11, 1926. Serial No. 80,459. 7 Claims. (Cl. 62—37.)



1. In a show-case refrigerator, a drip outlet, comprising, a gathering bowl below the floor level of the show case and having an upright wall adjacent a wall of the refrigerator, a conduit rising from the bottom of said bowl and along its wall, and a lateral outlet for said conduit passing through the wall of the bowl.

1,681,243. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 25, 1925. Serial No. 52,272. 9 Claims. (Cl. 197—135.)

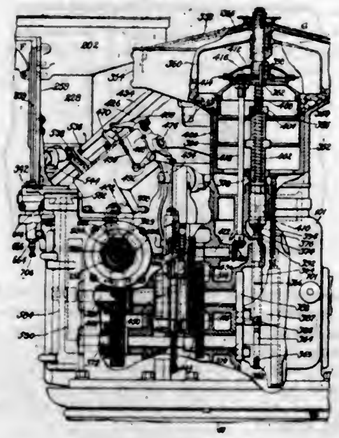


1. In a typewriting machine, the combination with a platen, typing instrumentalities, and ribbon-vibrating mechanism, of means for rendering said mechanism normally silent, a card-holding frame for presenting a stencil-card to the types, a train of devices effective to cause said vibrating mechanism to vibrate the ribbon at the type-strokes actuated for a single line of typing by the lower edge of said carbon-holding frame in its lowermost position, and means for line-spacing the frame, said vibrating mechanism returning to silent condition upon a line-spacing operation of said frame.

1,681,244. MACHINE FOR ASSEMBLING AND MOUNTING ARTICLES. ALBERT LATHAM, deceased, Beverly, Mass., by James W. Nourbourn, administrator, Somerville, Mass., assignor to American Button & Fastener Co., Augusta, Me., a Corporation of Maine. Filed Nov. 12, 1921. Serial No. 514,621. 149 Claims. (Cl. 218—18.)

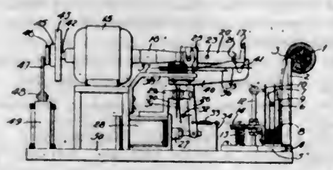
8. In a machine for arranging articles in groups on a holder, a plurality of receptacles for the articles, article-

assembling means, means for delivering articles from different receptacles to the assembling means, means for mounting the assembled group upon the holder, holder-feeding



means cooperating with the mounting means, and sealing means to which the holder is advanced by the feeding means.

1,681,245. CABLE-SPLICING MACHINE. DAVID T. MAY, Port Washington, and CHARLES G. MCCORMICK, New York, N. Y., assignors, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed May 6, 1925. Serial No. 28,320. 15 Claims. (Cl. 140—115.)

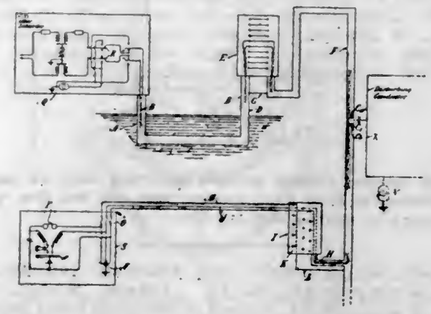


1. In a wire splicing machine, a wire support, a motor, a guide on the motor shaft adapted to receive the wires from the support, a switch operated by the placing of the wires on the guide, a circuit including a magnet closed thereby, a sleeve on the motor shaft operated by said magnet to clamp the wires between the sleeve and guide and sever the excess wire, a circuit including the motor closed by the operation of said magnet to cause said motor shaft to twist said wires, and a switch actuated by the breaking of the wire to open the motor circuit.

1,681,246. TELEPHONE SYSTEM WITH AUXILIARY SIGNALING CIRCUIT. RALPH G. MCCURDY, Englewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 26, 1924. Serial No. 695,333. 4 Claims. (Cl. 179—2.)

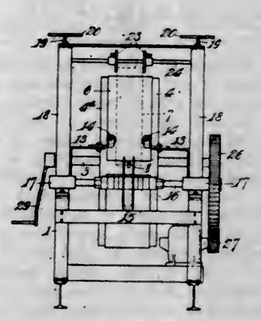
1. In combination, two telephone stations, a conductor pair extending between them to form a talking circuit, sig-

nailing apparatus at both stations, other conductor pairs, all said conductor pairs being comprised in a cable with a



metallic cable sheath, and said sheath forming with one of the conductors of said first mentioned pair a signaling circuit comprising said signaling apparatus.

1,681,247. RUBBER-STRIP-CUTTING APPARATUS. THOMAS MULHOLLAND, Wheeling, W. Va., assignor, by direct and mesne assignments, to Valley Rubber Company, Wheeling, W. Va., a Corporation of West Virginia. Filed July 29, 1925. Serial No. 46,824. 4 Claims. (Cl. 164—61.)

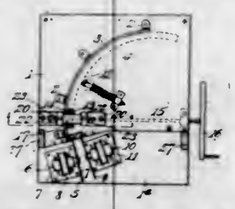


1. A machine for strip-cutting discarded solid rubber tires, comprising a carrying wheel, means for clamping a tire on the rim of said wheel, rotatable guide engageable with the edges of the tire, and a revoluble cutting disk arranged adjacent to said wheel and in facing relation to said rim and adapted to slit annularly a tire carried by said wheel as the latter is rotated.

1,681,248. MACHINE FOR TRIMMING STRIPS OF RUBBER. THOMAS MULHOLLAND, Wheeling, W. Va., assignor, by direct and mesne assignments, to Valley Rubber Company, Wheeling, W. Va., a Corporation of West Virginia. Filed July 29, 1925. Serial No. 46,825. 1 Claim. (Cl. 164—61.)

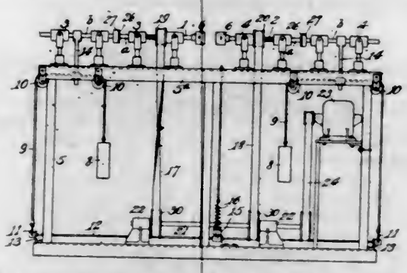
A machine for trimming rubber strips, comprising a table-like support for a strip, an arcuately curved guide carried by said support and against which the strip is held, a rotary cutting disk with respect to which said

strip is advanced lengthwise for cutting from the latter a surface layer of uniform thickness, a rotary feed disk in underlying relation to a portion of said strip, means



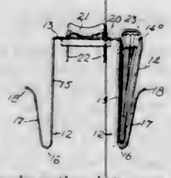
for exerting yielding pressure upon said strip for maintaining the latter firmly engaged with said feed disk, and means for rotating said feed disk.

1,681,249. MACHINE FOR FORMING SPHERICAL SOLID-RUBBER BALLS. THOMAS MULHOLLAND, Wheeling, W. Va., assignor, by direct and mesne assignments, to Valley Rubber Company, Wheeling, W. Va., a Corporation of West Virginia. Filed July 29, 1925, Serial No. 46,827. Renewed Jan. 13, 1928. 1 Claim. (Cl. 51—117.)



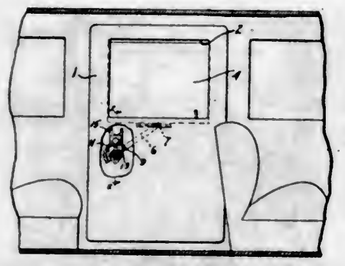
A machine for forming spherical balls from blocks of rubber, comprising a pair of alined rotatable shafts, each of said shafts having a fixed head, abrading means carried by each of said heads, each of said means being shaped to provide a hemispherical socket, at least one of said shafts being longitudinally shiftable, means tending to maintain such shaft advanced to a position in which the socket of the abrading means carried by the head thereof complements the other of said sockets, means for retracting the shiftable shaft, means for rotating said shafts in opposite directions, at least one of said shafts being formed in two sections, and a friction coupling operatively connecting said sections, said coupling comprising collars fixed on the adjacent ends of said sections, an axial cone projection borne by one of said sections in seated relation to the end of the other section, and relatively adjustable housing members having portions embracing said sections and seated against the non-confronting faces of said collars.

1,681,250. MATCH SAFE. JACOB E. NEAHR, Hartsdale, N. Y. Filed June 25, 1924. Serial No. 722,212. 4 Claims. (Cl. 206—20.)



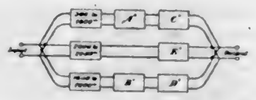
2. A device for insertion into an ash-receiver, comprising a cover having pendent from opposite sides thereof pockets forming match-safes.

1,681,251. WINDOW-REGULATOR MOUNTING. STANLEY W. NICHOLSON, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Delaware. Filed May 24, 1926. Serial No. 111,432. 8 Claims. (Cl. 268—126.)



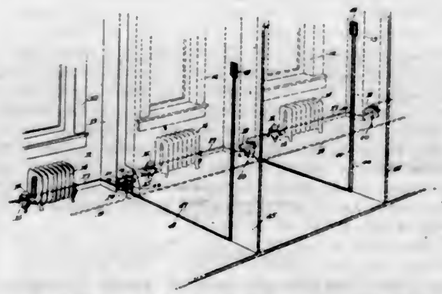
1. The combination with a support and a window regulator, including an angularly movable member, of a mounting for said member having laterally offset portions for bearing on opposite sides of said support, and means engageable with another portion of said mounting to secure said last mentioned portion to said support and to secure said laterally offset portions from disengagement from said support.

1,681,252. DISTORTION CORRECTION FOR TRANSMISSION LINES. HARRY NYQUIST, Millburn, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 11, 1926. Serial No. 134,930. 5 Claims. (Cl. 178—44.)



1. In a transmission system, the method of correcting for delay irregularities which consists in making the large portion of the delay correction mechanically and the final portions electrically.

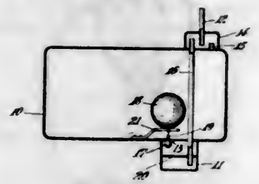
1,681,253. TEMPERATURE REGULATION. ARTHUR J. OTTO, Milwaukee, Wis., assignor to Johnson Service Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 26, 1927. Serial No. 163,801. 9 Claims. (Cl. 236—1.)



1. In a heat regulating system, the combination of a plurality of heat controlling pressure motors; a motive fluid conducting line connected with each such motor; at least one device interposed in such line between motors, such device including means operable at will to connect or isolate from each other the portions of said line on

opposite sides of said device, and said device further including means for connecting a pressure fluid controlling thermostat releasably in controlling relation with said line.

1,681,254. EVAPORATOR FOR REFRIGERATING APPARATUS. STUART OTTO, Wilton, Conn., and LAWRENCE BRUEHL, Brooklyn, N. Y., assignors to Gas Refrigeration Corporation, Scranton, Pa., a Corporation of Delaware. Filed Oct. 23, 1926. Serial No. 143,549. 6 Claims. (Cl. 62—118.)



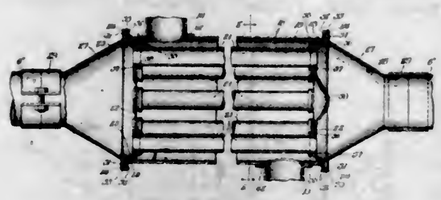
1. An evaporator for absorption refrigerating apparatus, having a sump, a liquid inlet to the upper part of the sump, a liquid outlet from the lower part of the sump, a baffle between said upper and lower parts, and means for preventing the escape of gas from said sump through said inlet whereby increase of gas pressure in said sump forces liquid through said outlet.

1,681,255. MUFFLER. ARTHUR H. QUARMBY, Lansing, Mich. Filed Jan. 12, 1925. Serial No. 1,961. 13 Claims. (Cl. 137—160.)



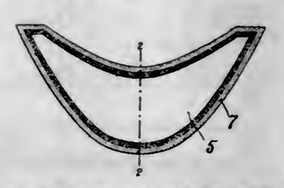
1. A muffler for internal combustion engines, comprising a plurality of substantially parallel tubular sections arranged around a central section designed to receive the engine exhaust gases, and means to induce a whirling motion in said tubular and central sections.

1,681,256. AUTOMOBILE HEATER. JAMES F. RALEIGH, River Forest, Ill., assignor to Pines Winterfront Company, Chicago, Ill., a Corporation of Delaware. Filed Nov. 30, 1925. Serial No. 72,074. 3 Claims. (Cl. 257—241.)



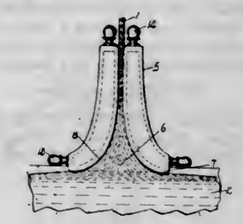
1. In an automobile heater of the class described, the combination of a pair of flanged end heads having apertures therein, a plurality of heating tubes extending between said heads and secured in said apertures, each of said tubes having flanges adjacent its ends for engaging the inner sides of said end heads, the extremities of said tubes being spun over the outer sides of said end heads, an air heating chamber embracing said tubes and slidably supported about the same, means for circulating air through said chamber, and means for circulating exhaust gases through said tubes.

1,681,257. SHOE STIFFENER AND METHOD OF MAKING IT. FRED RICKS, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 6, 1922, Serial No. 599,413, and in Great Britain Dec. 6, 1921. 8 Claims. (Cl. 12—146.)



1. The method of making a toe stiffener for boots and shoes which consists in preparing a composite blank one member of which is normally stiff but may be rendered flexible by the application of a suitable agent which has no injurious effect upon leather and the other of which is normally flexible, and removing a margin of the first-named member so as to produce a finished stiffener a margin of which is composed of material which is normally flexible and is thinner than the body portion of the stiffener.

1,681,258. WIDTH MAINTAINER FOR CONTINUOUS SHEET GLASS. CLIFFORD A. ROWLEY, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 24, 1924. Serial No. 701,313. 21 Claims. (Cl. 49—17.)



1. In the art of drawing sheet glass from a mass of molten glass, the process of maintaining the width of the sheet during its initial forming period, consisting in surrounding the sheet source at its edge in a manner to form a beaded edge portion on the sheet and to continuously confine and direct this edge along a predetermined path of travel, and then eliminating the beaded edge while it is still plastic.

20. In sheet glass apparatus, means for drawing a sheet from a mass of molten glass, a slotted member located external of the molten bath and arranged at each edge of the sheet for contact therewith and above the surface of the molten glass from which the sheet is drawn, each slotted member having a curved heat conducting surface which envelops the sheet edge from its source upwardly for a substantial distance and from which heat is dissipated, each sheet edge contacting with its respective slotted member in the slot thereof only.

1,681,259. PRIMING MIXTURE. ARLIE W. SCHORGER, Madison, Wis., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis., a Corporation of Delaware. Filed Sept. 24, 1927. Serial No. 221,861. 4 Claims. (Cl. 52—8.)

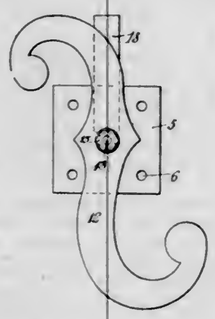
1. A printing composition containing a solid deflagrating oxide of carbon.

1,681,260. CASEMENT WINDOW. EDWIN J. SIBLEY, Westbury, N. Y. Filed Feb. 23, 1927. Serial No. 170,102. 1 Claim. (Cl. 16—163.)



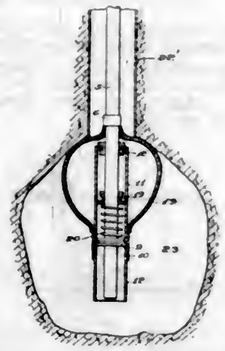
A hinge for metal casement windows comprising in combination a fixed hinge plate adapted to be secured to a vertical portion of the window frame, said plate having an integral lateral extension plate adapted to be secured to a horizontal portion of the window frame, a hinge lug adapted to be secured to the window, a movable hinge plate pivoted to and between said fixed hinge plate and lug, a slotted lug on the movable hinge plate adapted to enter through a slot in the window sash and project on the inside thereof, a slide mounted on the sash and adapted to engage the slot in the movable hinge plate to secure the latter and the window together, and a screw in the window sash accessible from the inside when the window is opened for adjusting the sash relative to said movable hinge plate.

1,681,261. COMBINED SHUTTER HOOK AND SPRING. EDWIN J. SIBLEY, Westbury, N. Y. Filed Feb. 23, 1927. Serial No. 170,103. 2 Claims. (Cl. 292—209.)



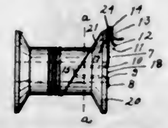
1. As a new article of manufacture a combined shutter hook and spring comprising a base plate adapted to be affixed to a wall, a bolt detachably connected to said base plate in angular relation thereto, a shutter hook detachably pivoted on the bolt a distance away from the base plate, a flat curved spring on the bolt interposed between the base plate and the shutter hook, said spring detachably engaging a hole in the base plate to prevent relative rotary movement between the base plate and bolt, said spring extending to one side of the bolt for yieldingly pressing a shutter against the hook.

1,681,262. OIL AND GAS WELL PACKER. JOHN W. SMITH, GREGG E. SAWYER, and VIRGIL L. MARTIN, Independence, Kans. Filed July 14, 1927. Serial No. 205,717. 11 Claims. (Cl. 166—10.)



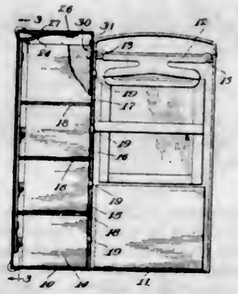
1. A well packer comprising a well tubing, a tubular member encircling said tubing, an expansible sleeve, the lower end of which is secured to said tubular member, and the upper end of which is engaged with said well tubing, the parts being so arranged that the expansible sleeve is bulged outwardly to an extent to present an upwardly facing surface of contact when the well tubing is moved downwardly with respect to said tubular member and means for locking the well tubing to the tubular member to thereby hold said sleeve in its bulged position when the well tubing is drawn upwardly to bring said contact surface into packing engagement with the mouth of the outlet from a shot hole.

1,681,263. ATTACHMENT FOR THREAD SPOOLS. BRYCE A. SMITH, Glendale, Calif. Filed Aug. 16, 1926. Serial No. 129,489. 3 Claims. (Cl. 242—126.)



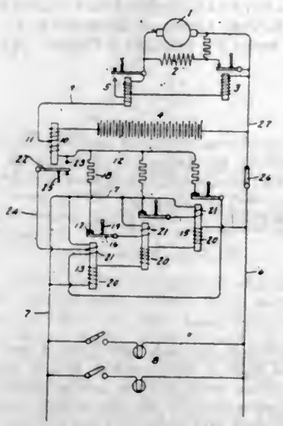
1. In a device of the class described, a length of spring material having an intermediate portion bent in an approximate V form with the ends of said material oppositely directed on a plane at substantially right angles to the longitudinal axis of the V portion, and means on one such end for securing a loose end of thread.

1,681,264. TRUNK. EMIL O. SUELFLOW, Oshkosh, Wis., assignor to The Schmit Trunk Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Jan. 2, 1926. Serial No. 78,737. 2 Claims. (Cl. 45—7.)



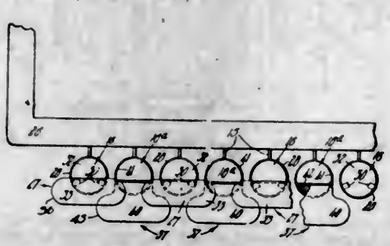
1. A locking device for the drawers of wardrobe trunks comprising a rigid vertical rod slidable vertically past the inner ends of the closed drawers; sockets on the inner ends of all the drawers but one and rigid projections on said rod for simultaneously entering all said sockets by upward movement; and a lifting device actuated by movement to closed position of the drawer not provided with a socket; said device comprising a resilient supporting bar pivoted to said vertical rod, a horizontal socket in front of said rod and above said drawer for slidably receiving the other end of said bar, and contact means carried by the drawer for raising said bar.

1,681,265. ELECTRIC SYSTEM. RAYMOND H. SULLIVAN, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 8, 1924. Serial No. 736,473. 8 Claims. (Cl. 171—313.)



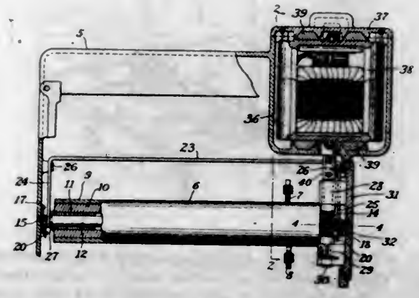
1. In an electric system comprising a source of current at variable voltage, and supply-mains connected with said source, means, for regulating the E. M. F, across said supply-mains, comprising: a plurality of resistors connected in parallel between said source and one of said supply-mains; and a plurality of relays connected in series with, and controlling the flow of current through said resistors, respectively; the relays being energized by connection with the supply-mains and being responsive to substantially the same E. M. F. across these mains.

1,681,266. TYPEWRITING MACHINE. OTTO THIEME, Hartford, Conn., assignor, by mesne assignments, to Elliott-Fisher Company, New York, N. Y., a Corporation of Delaware. Filed July 20, 1925. Serial No. 44,681. 9 Claims. (Cl. 197—176.)



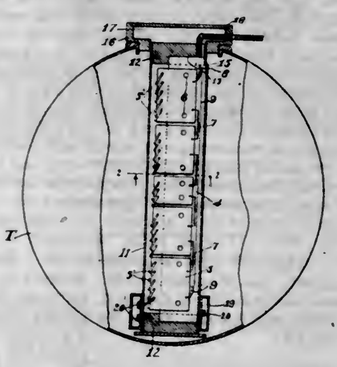
1. An attachable extension for a character-key including a sleeve and a finger-bar, said sleeve provided with a semi-circular head to partially cover the key to expose the character thereof and provide a support to elevate and suspend the finger-bar in front of the key.

1,681,267. POWER MECHANISM. RUSSELL G. THOMPSON, Rochester, N. Y., assignor, by mesne assignments, to North East Appliances, Inc., Rochester, N. Y., a Corporation of Illinois. Filed Sept. 29, 1924. Serial No. 740,684. 2 Claims. (Cl. 74—36.)



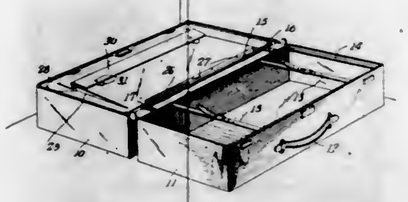
1. Power mechanism comprising: a frame having side-members; a horizontal rotary power-member journaled transversely between said side-members; a horizontal power-shaft geared to one end of said power-member and journaled on and within one of the side-members; an electric motor yieldingly mounted within and upon the frame, in axial alinement with said power-shaft; and means, including a yielding coupling, for connecting the motor-shaft with the power-shaft.

1,681,268. FLOAT-OPERATED RHEOSTAT. LEE R. TITCOMB, Brooklyn, N. Y., assignor to Auto-Meter Co. Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 7, 1925. Serial No. 7,478. 7 Claims. (Cl. 201—48.)



7. In electric current flow regulating means, a flat bar of insulator material, a series of U-shaped plates of conducting material mounted in straddling relation along one edge of the bar with the connecting portion of the plates offset from the bar and arranged for connection in an electric circuit, U-shaped contacts of magnetizable material pivotally carried by the plates to straddle the bend of the plates, a series of resistance coils electrically connected to the plates in interposed relation thereto, a tube of non-magnetizable and conducting material in which the insulator bar with the contact carrying plates and coils is mounted and enclosed connected in the circuit of the plates and coils, a magnet adapted to attract the plate contacts to the tube to establish the circuit through different portions of the plates, and a float movable along the tube and carrying the magnet for the purpose specified.

1,681,269. BAG PARTITION. HUGO TUECKMANTEL, Newark, N. J., assignor to The T. & L. Co., Inc., Newark, N. J., a Corporation of New Jersey. Filed Nov. 17, 1926. Serial No. 148,778. 3 Claims. (Cl. 190—51.)



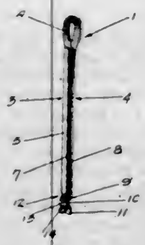
1. In a flat opening compartmented bag, a rigid plate partition foldable over either compartment, a metal channel fixed on the inner edge of said partition, a rod held rigidly in said channel to extend therebeyond, sockets fixed on said bag to receive the rod ends, and means combined with said sockets to normally retain the rod ends therein, said means being yieldable longitudinally to permit removal of the rod and partition.

1,681,270. MATCH CASE AND IGNITING DEVICE. WILLIAM TURK, Minden, Iowa. Filed July 14, 1925. Serial No. 43,501. 1 Claim. (Cl. 206—34.)



A match case and striking device comprising slidably connected plates, said plates being provided with registering corrugations thereby forming match receiving compartments, the inner side of one of said plates intermediate its ends having secured thereto a striker strip conforming to the inner contour of the corrugations, the ends of one of said plates being provided with inturned flanges overlying the adjacent ends of the other plate, the inwardly extending ribs of the plates registering and one of said corrugations of one of the plates engaging the striker strip and forming means whereby communication between the match compartment is obviated at the point of striking.

1,681,271. HAIRPIN FOR BOBBED HAIR. CLARENCE J. WILLIAMS, San Francisco, Calif., assignor by direct and mesne assignments, to Carrie G. Burbank, Oakland, Calif. Filed Nov. 8, 1926. Serial No. 146,931. 5 Claims. (Cl. 132—50.)

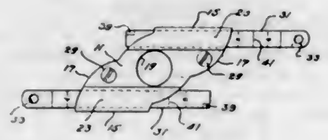


1. A hairpin consisting of a spring-loop portion and outwardly projecting tines having opposed flutes with the concavity of the one facing the concavity of the other and formed from a single piece of flat spring material, the extremities of said tines being provided, respectively, with a ridge and a depression adapted to fit the one within the other to form interlocking means adapted to prevent the displacement of the pin.

1,681,272. LEAD ALLOY. HIROSHI YOSHIKAWA, Tokyo, Japan. Filed Nov. 12, 1926, Serial No. 148,104, and in Japan Nov. 30, 1925. 4 Claims. (Cl. 75—1.)

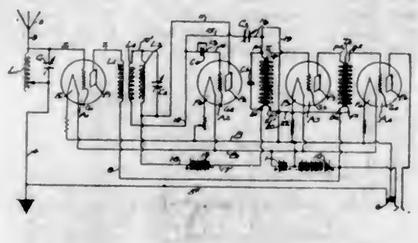
1. An alloy consisting of lead, bismuth and a metal immiscible with lead of the group: copper and nickel, wherein the bismuth content lies between 0.025% and 4.0% and the content of the metal immiscible with the lead lies between 0.025% and 5.0%.

1,681,273. ADJUSTABLE HOLDING FIXTURE. LOUIS BADY and SAMUEL LEVINSON, Brooklyn, N. Y. Filed Oct. 12, 1926. Serial No. 141,228. 9 Claims. (Cl. 240—85.)



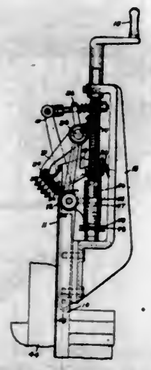
3. In a device of the class mentioned, a central member comprising a pair of rhomboidally shaped plates jointly attachable to an outlet fixture, guides formed with the longitudinal edges of one of said plates imperforate elements receivable between said guides and the other one of the said plates, and means exerting a clamping pressure upon both plates to hold said elements in adjusted position, the outer ends of the latter being capable of sustaining a canopy therefrom.

1,681,274. RADIOCIRCUIT. RAYMOND C. BAIRD, Omaha, Nebr., and EUGENE E. SNELL, Mount Clemens, Mich. Filed July 11, 1927. Serial No. 205,023. 4 Claims. (Cl. 250—27.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625, as amended by act of Apr. 30, 1928.)



1. In a radio receiving system an input circuit, a detector including plate, grid and filament, means for impressing the input oscillations across both grid and filament and plate filament, such means including a trio of inductively associated coils, two of the latter being series connected and means for impressing a constant voltage of corresponding value on both plate and grid.

1,681,275. MARKING DEVICE. ADELMER M. BATES and CARL G. KRONMILLER, Chicago, Ill., assignors, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill., a Corporation of Delaware. Filed Aug. 17, 1925. Serial No. 50,588. 15 Claims. (Cl. 101—291.)

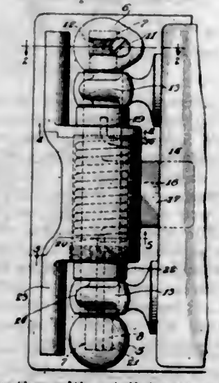


1. In a printing press, having an oscillatory bed and a stationary platen, a fabric sustaining member mounted beyond and parallel with the platen, a marker in position to apply a mark to the fabric on its side opposite said member, and means in the path of the bed adapted to actuate said marker.

1,681,276. FLUID FILTER FOR THE ABSORPTION OF CERTAIN RADIATION. LOUIS BELL, deceased, Newton, Mass., by Sarah G. Bell, administratrix, Newton, Mass., and Walter George Wolfe, Greenwood, Mass.; said Sarah G. Bell assignor, by mesne assignments, to Sarah G. Bell, Newton, Mass. Filed Dec. 1, 1924. Serial No. 753,326. 2 Claims. (Cl. 88—24.)

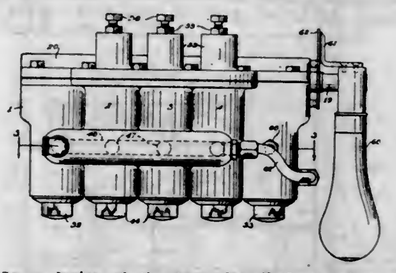
1. In a ray filter of the class described, a fluid medium including a solution of ammonium ferrous sulphate, and a solution of cupric sulphate with a solution of cobaltic sulphate in chromatic balance thereto.

1,681,277. SPRING HINGE FOR TOILET SEATS. BYRON C. BOOTH, Muskegon Heights, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Sept. 19, 1927. Serial No. 220,413. 6 Claims. (Cl. 4—236.)



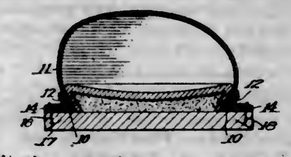
1. The combination with a toilet seat and a closet bowl, of means supporting said seat for pivotal movement, a pivoted member engageable with said seat, resilient means for moving said member upwardly, and means for limiting the upward movement of said member, said member and said resilient means being operative to raise said seat until the limit of movement of said member is reached, and said seat being capable of disengaging from said member and continuing its movement.

1,681,278. PNEUMATICALLY-CONTROLLED AIR VALVE. GARWOOD T. BOYNTON, Dayton, Ohio, assignor of one-half to Morris L. Hahn, Dayton, Ohio. Filed Sept. 1, 1926. Serial No. 132,948. 12 Claims. (Cl. 303—52.)



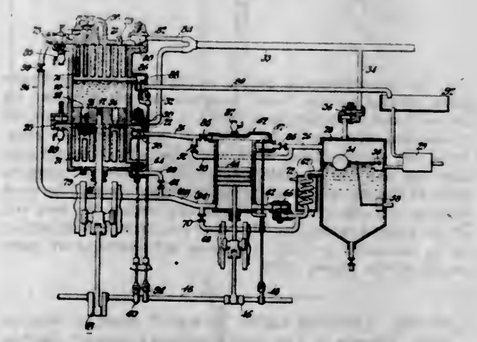
2. In a device of the type described, a primary air chamber, a secondary air chamber in communication with the latter, a valve for admitting air under compression to the primary chamber, a valve for admitting said air to the secondary chamber, a flexible bell-shaped sleeve associated with the second valve for engagement with the walls of the secondary chamber, and a spring for opening the valve of the secondary chamber to admit more air to the latter from the primary chamber when the pressure of the air in the secondary chamber falls below a predetermined amount.

1,681,279. DOUBLE-WELT SHOE. AUGUSTUS W. BOWERS and CHARLES NEWTON PROUTY, Spencer, Mass. Filed July 6, 1926. Serial No. 120,563. 4 Claims. (Cl. 36—17.)



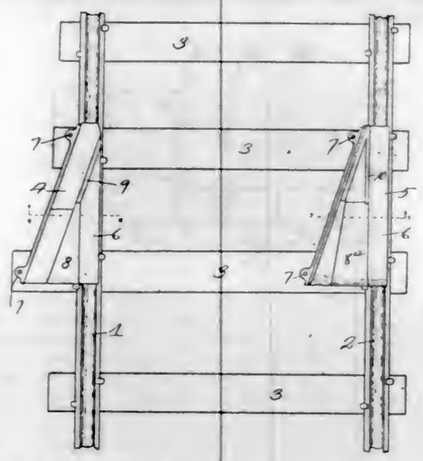
1. A welt shoe comprising an outersole, an upper, a welting strip secured adjacent its upper edge to said upper, and an outer welt secured to said welting strip at a lower point and turned outward and downward therefrom to engage said outer sole.

1,681,280. ISOTHERMAL AIR COMPRESSOR. ROBERT EARLL BRUCKNER, Hastings-on-Hudson, N. Y., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 11, 1926. Serial No. 134,829. 22 Claims. (Cl. 230—45.)



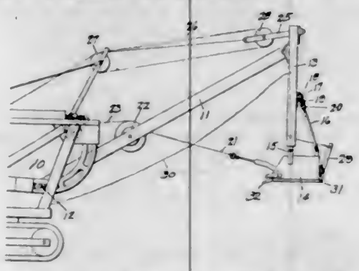
1. In a gas compressor, the combination with an upright cylinder and a reciprocable piston therein, of heat absorbers depending from the piston and adapted to transfer the heat of compression directly to a body of cooling liquid maintained within the cylinder below the piston.

1,681,281. RERAILING BLOCK. RODERICK W. BRYANT, Omaha, Nebr. Filed Dec. 30, 1926. Serial No. 158,018. 1 Claim. (Cl. 104—268.)



A re-railing block disposed adjacent a rail and on the ends of ties outside of the rail, means for securing said block to said ties, said means comprising apertured lugs for the reception of spikes and positioned to engage adjacent ties, an inverted channeled member arching the rail, an inclined guide groove carried by said block and inclining upwardly, the upper ends of said guide groove terminating in a wheel flange receiving groove, said wheel flange receiving groove extending diagonally across the channeled member and terminating at the inner side of the rail.

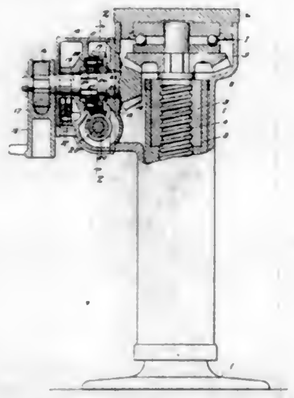
1,681,282. DITCHER. BIRD C. CLUTTER, Akron, Ohio, assignor, by mesne assignments, to Clutter-Wagner, Inc., a Corporation of Ohio. Filed Sept. 4, 1926. Serial No. 133,712. 3 Claims. (Cl. 214—138.)



1. In an excavator, a ditcher including a boom, a dipper stick pivoted on the boom, a scoop pivoted adjacent its forward end upon the dipper stick, a link having a pivotal connection with the scoop adjacent its rear end, an apertured lug on the dipper stick, said link extending through said lug and having nuts adjustable thereon on opposite sides of the lug, and a compression spring operable between the lug and one of the nuts normally urging the rear end of the scoop downwardly, the other nut limiting such action so as normally to hold the scoop substantially at right angles to the dipper stick.

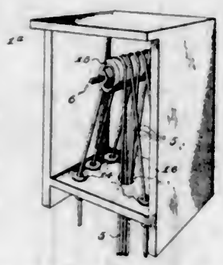
1,681,283. LIFTING JACK. JAMES C. DAWLEY, Dayton, Ohio, assignor to The Joyce-Cridland Company, Dayton, Ohio, a Corporation of Ohio. Filed Aug. 5, 1925. Serial No. 48,230. 23 Claims. (Cl. 254—103.)

1. In a lifting jack, the combination with a lifting element, means for actuating the same to lift the load, a rotatable brake member, means for causing said brake member to be rotated by the downward movement of said lifting element, and a friction device cooperating with said brake member to control the downward movement of



said lifting element, of controlling mechanism comprising separately operable means to normally control the action of said friction device and to positively retain said friction device in contact with said brake member.

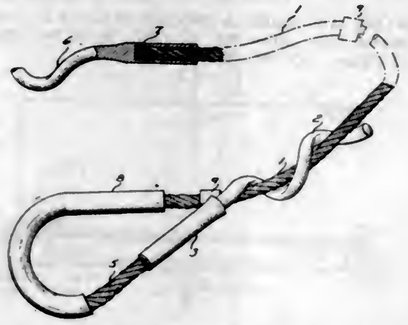
1,681,284. DRY-SPOT CROSS-ARM TERMINAL BOX. DOUGLAS P. DICKIE, New York, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Nov. 14, 1925. Serial No. 69,095. 4 Claims. (Cl. 247—1.)



1. Means for preventing leakage of current from overhead terminal wires carried by the insulators on telegraph or telephone poles, comprising a housing completely closed to prevent the entrance of moisture and provided with means whereby it may be secured to a telegraph pole closely adjacent to the insulators, a plurality of openings in the floor or bottom wall of the housing, an insulating support mounted within said housing and provided with spacing means, and a plurality of continuous bridle wires adapted to be connected to overhead wires, said bridle wires passing in at separate openings in the bottom wall, over said support and out through another opening in the bottom wall, whereby they will be held in spaced relation and free from moisture within the housing.

1,681,285. ATTACHMENT FOR STRANDS, ROPES, OR CABLES. GEORGE W. EWINS, Belleville, N. J., assignor to American Cable Company, Inc., a Corporation of Delaware. Filed Dec. 1, 1926. Serial No. 151,909. 2 Claims. (Cl. 24—123.)

1. The combination with a flexible strand, rope or cable of a spiral metal terminal secured thereto by a sleeve compressed upon the end thereof and adapted to be entwined about an intermediate portion thereof to form the strand into a loop, and a stop member also attached to an inter-



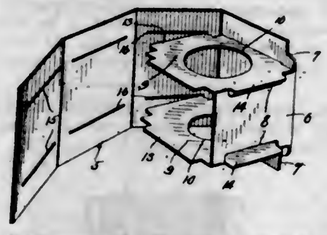
mediate portion of said flexible member and adapted to be engaged by said spiral terminal and thereby to determine the size of said loop.

1,681,286. LINTEL. WALTER H. FASSHAUER, Philadelphia, Pa. Filed June 8, 1921. Serial No. 475,937. 5 Claims. (Cl. 189—37.)



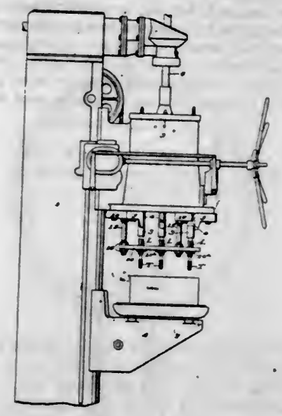
1. An article of manufacture being a beam integrally formed and having two strengthening flanges and a third flange, one of said strengthening flanges being at the top of said beam and the other two flanges being at the bottom thereof, said beam having the under side of its base constructed of irregular contour between the edges of the two lower flanges to form a holding means for receiving and positioning another article of building construction.

1,681,287. CONTAINER. FREDERICK W. FRENCH, Oakland, Calif. Filed June 29, 1926. Serial No. 119,395. 1 Claim. (Cl. 229—37.)



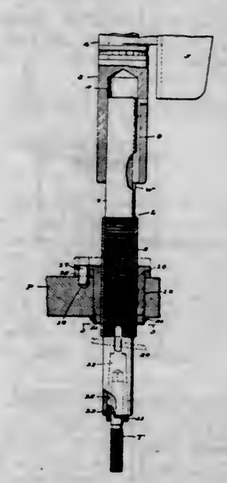
A lamp wrapper comprising a sheet of material including four side walls, an end member forming a part of the wrapper, inwardly bendable extensions forming a part of the end member, said end member having slits separating the extensions from the end member throughout portions of the lengths of the extensions, said slits defining tongues when the lateral extensions are bent inwardly, tongues formed on the edges of the extensions, the side walls having slots to receive the tongues when the side walls are bent around the extensions, and said extensions having openings to support a lamp therein.

1,681,288. POSITIVE TAPPING MECHANISM FOR MULTIPLE-SPINDLE MACHINES. ROBERT M. GALLOWAY, Richmond, Ind., assignor to The National Automatic Tool Company, Richmond, Ind., a Corporation of Indiana. Filed July 18, 1925. Serial No. 44,440. 7 Claims. (Cl. 10—130.)



3. A multiple tapping machine combining a translatable tool-head; a plurality of rotatable spindles adjustably supported on said tool-head; a threaded member translatable but non-rotatable relative to each of said spindles; a tap carried by each of said threaded members; a plate adjustably supported by said tool-head; and a plurality of nuts supported by said plate and each having an operative connection with one of said threaded members between its rotating spindle and the tap rotated thereby to give to said taps individual axial movement.

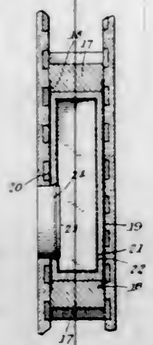
1,681,289. SAFETY POSITIVE-FEED TAP. ROBERT M. GALLOWAY, Richmond, Ind., assignor to The National Automatic Tool Company, Richmond, Ind., a Corporation of Indiana. Filed July 18, 1925. Serial No. 44,441. 3 Claims. (Cl. 10—135.)



1. A tapping machine combining a rotatable spindle; a lead-screw rotatable with said spindle and translatable relatively thereto; a cap carried by said lead-screw; a member

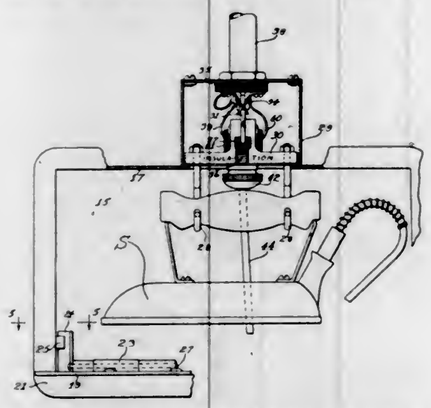
located intermediate the spindle and the tap and formed with a socket and an aperture; a lead-nut located in said socket and having a threaded engagement with said lead-screw, whereby rotation of the lead-screw effects axial movement thereof; a flange on one end of said lead-nut engaging one side of said member positively to hold said lead-nut against movements in one direction; a stud projecting from said flange and entering the aperture in said member positively to hold the nut against rotary movement, and a releasable retainer engaging said nut at the opposite side of said member impositively to hold the nut against movement in the opposite direction, said retainer being adapted to be overcome by a predetermined strain on said lead-screw.

1,681,290. WALL SAFE. EUGENE E. GLASS, Los Angeles, Calif. Filed Apr. 13, 1927. Serial No. 183,562. 5 Claims. (Cl. 109—2.)



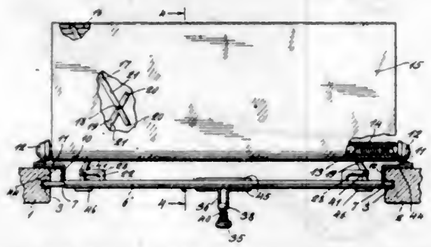
1. A wall safe comprising a frame, plates of fireproof and non-breakable material spanning the sides of the frame to form a closed body, a box within the body spaced from the frame and plates and formed of non-inflammable material, heat resisting material filling the space around the box, one of the plates, one side of the box and the heat resisting material being formed with registering openings coacting to produce an entrance opening, a collar secured in the wall of the entrance opening, and a door for closing the opening.

1,681,291. SADIRON RECEPTACLE. EUGENE E. GLASS, Los Angeles, Calif. Filed May 25, 1927. Serial No. 194,139. 8 Claims. (Cl. 219—25.)



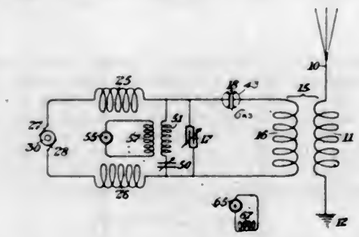
1. In combination, a receptacle adapted to be built or inserted in a wall and having an entrance through which an electrical sad iron is adapted to be inserted into or removed from the receptacle, a switch for controlling the supply of current to the sad iron, and means correlated with the switch to support the sad iron within the receptacle and to move the switch to open position under the weight of the said iron.

1,681,292. AUTOMOBILE AWNING. WILLIAM M. GLOVER, Denver, Colo. Filed Feb. 21, 1927. Serial No. 169,830. 15 Claims. (Cl. 156—44.)



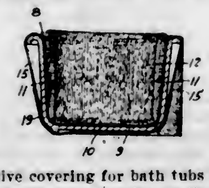
15. In an automobile awning structure the combination of a support mounted in the window opening of a car, a flexible shade connected at one end with the support, a handle pivoted in the support and bodily movable on an axis at right angles to its axis of rotation, and an operative connection between the handle and the other end of the shade to cause the latter to be extended and withdrawn by one movement and adjusted to vary its inclination by the other movement of the handle.

1,681,293. SYSTEM AND METHOD FOR THE TRANSMISSION OF RADIANT ENERGY. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Mar. 17, 1917, Serial No. 155,500. Renewed Jan. 7, 1928. 48 Claims. (Cl. 250—6.)



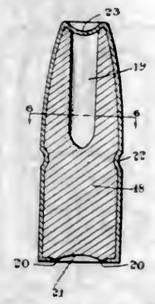
1. The method of wireless signaling, which comprises transmitting radiant energy in such a form as to include a plurality of series of periodic variations having different frequencies respectively, receiving said energy upon a plurality of cooperating receiving devices tuned to said frequencies respectively, causing "beats" in the action of one of said receiving devices and utilizing the action of said "beats" to control a receiving device tuned to said "beats."

1,681,294. COVERING FOR BATHTUBS AND THE LIKE. ROBERT E. HENRY, Pittsburgh, Pa. Filed Oct. 9, 1925. Serial No. 61,456. 4 Claims. (Cl. 4—173.)



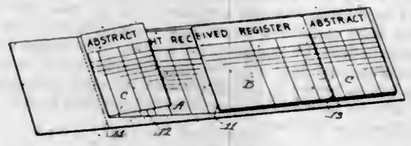
1. A protective covering for bath tubs and the like, comprising a body portion conforming to the interior of a tub, side flap portions on said body portion extending over the longitudinal edges and the sides of the tub, other flap-like portions extending over the outer end walls of the tub, the end flap portions overlying the vertical edges of the side flaps and having their vertical edges folded inward.

1,681,295. MUSHROOMING BULLET AND METHOD OF MAKING SAME. EDWIN J. JOHNSON, Montreal, Quebec, Canada, assignor to Dominion Cartridge Company, Limited, Montreal, Canada. Filed Feb. 28, 1925. Serial No. 12,329. 1 Claim. (Cl. 102—28.)



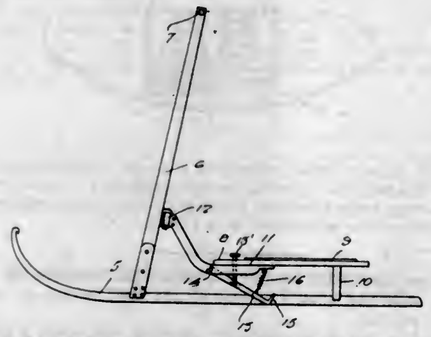
A mushroom bullet comprising a one piece outer hollow metal shell closed at the nose end and open at the other end, a core of softer metal secured in and filling said shell, said core being formed with a cavity extending inwardly from the nose end of the core and affording an air pocket and said shell having the nose end thereof depressed into the mouth of said pocket to seal said mouth and to form an outwardly facing depression at the nose end of the shell.

1,681,296. DUPLICATING RECORD BOOK. EDWARD Z. LEWIS, Chicago, Ill., assignor to The General Manifold and Printing Company, a Corporation of Pennsylvania. Filed Aug. 15, 1925. Serial No. 50,383. 7 Claims. (Cl. 282—27.)



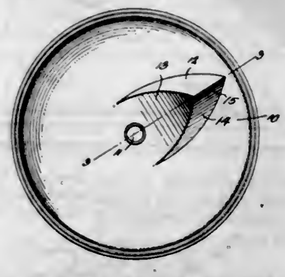
1. A book comprising a plurality of center bound sheets each having printed matter on both sides thereof, and a pair of detachable transfer portions associated with each sheet of the book, and each transfer portion having printed matter on one side thereof corresponding to a portion of the printed matter on the page on the reverse side of said sheet.

1,681,297. SNOW AND ICE SCOOTER. WILLIAM VAINO LINDROOS, Helsingfors, Finland. Filed Feb. 4, 1926. Serial No. 85,965. 2 Claims. (Cl. 280—22.)



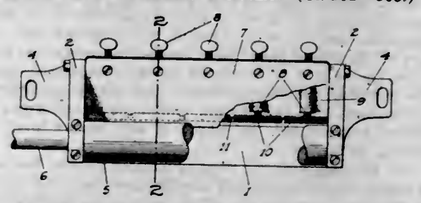
1. In a scooter of the class described, a flexible steel runner, a foot board supported in position above the runner adjacent the rear end thereof, a handle bar secured to the runner adjacent the forward end and extending upwardly therefrom, a pair of spaced bars secured at their rear ends to the forward portion of the foot board, said bars gradually converging towards their forward ends and being bent upwardly, and a vertical pivot connecting the extreme forward ends of said bars to the handle bar.

1,681,298. REFLECTOR. ANDREW LOBERG, Albert Lea, Minn. Filed Feb. 5, 1926. Serial No. 86,284. 1 Claim. (Cl. 240—41.)



A reflector comprising a shell having the major portion of the area of its reflecting surface of uniform parabolic contour, the said shell having a portion protruding inwardly with respect to said surface and extending generally in a radial direction at an angle of approximately 45 degrees to the vertical plane of the axis of the reflector as a whole and having side faces and a reflecting face of a contour similar to that of the reflecting face of the shell, the side faces of said protruding portion forming juncture with each other at the outer end of said protruding portion, said side faces converging in the direction of their line of juncture on curved lines and being of gradually decreasing transverse dimensions from their line of juncture to their inner ends, whereby the reflecting face of the said protruding portion is of gradually decreasing width from its side which is next adjacent the axis of the reflector shell to its opposite side.

1,681,299. INK FOUNTAIN FOR PRINTING PRESSES. CHARLES L. LOW, Fresno, Calif., assignor to Lisenby Manufacturing Company, Fresno, Calif. Filed July 18, 1927. Serial No. 206,506. 4 Claims. (Cl. 101—365.)

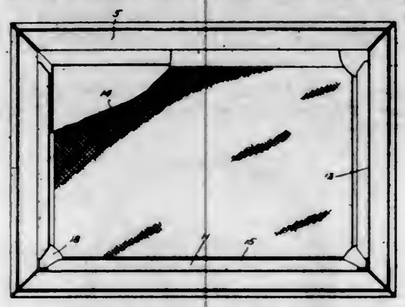


1. An ink fountain including a roll, a resilient plate forming the bottom of the ink trough and having one edge disposed along and adjacent the roll, a rigid strip bearing along its upper edge against the under face of the plate adjacent the roll engaging edge thereof, means supporting the strip along its bottom edge to allow of rocking movement of the strip, and means engaging the strip above the supporting means to rock the strip and cause it to press throughout its length against the plate.

1,681,300. SCREEN MEANS FOR AUTOMOBILES. ARTHUR J. MAAS, Madison, Wis. Filed Feb. 12, 1927. Serial No. 167,767. 1 Claim. (Cl. 156—14.)

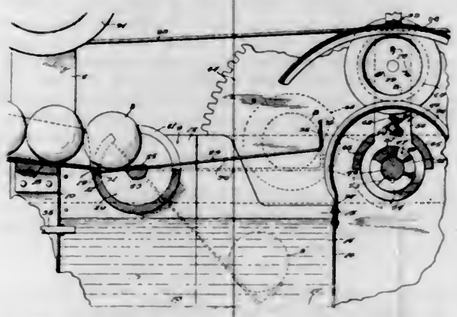
Means for screening an opening in an automobile body, comprising a main frame arranged to bear against an automobile body about an opening therein, and extending inwardly from the wall of the opening and having an inner reduced edge portion, a screen holder disposed at the outer

side of the main frame and made up of a lower channel bar and side channel bars, the side channel bars being open at their upper ends, and all of said bars being provided



with portion of U-shape in cross section, crimped over the said inner reduced edge portion of the main frame, and a screen disposed and retained in the said channel bars on the main frame.

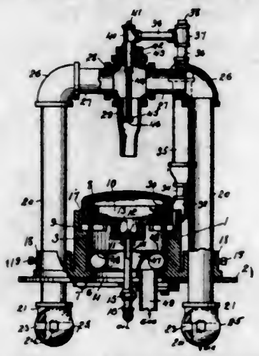
1,681,301. DIPPING AND PAINTING MACHINE. SABATINO MAGGI, Passaic, N. J. Filed Sept. 17, 1925. Serial No. 57,001. 18 Claims. (Cl. 91—46.)



1. In a machine of the class described, a liquid container, dipping means comprising an oscillatory dipper and means for oscillating the same to effect immersion of an object supported thereby in the liquid in the container and elevation of the dipped object after immersion, means for delivering the article to be dipped to the said dipper, means for receiving the dipped article, and means operating in consonance with the dipping means for transferring the dipped article from the dipper of said means to the receiving means.

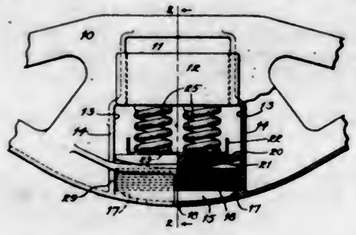
18. In a machine for dipping articles to coat the same, a liquid container, dipping means operating with relation to the container to lower an article into the container and then elevate the same, means for receiving the article, means for transferring the article from the dipping means to the receiving means comprising coacting gripping members movable between the dipping means and the receiving means, and means operating in consonance with the dipping means for effecting movement of the said members in unison from the dipping means to the receiving means and for effecting movement of the gripping members toward each other to grip the article substantially at the termination of the operation of the dipping means, and means for effecting relative separation of the members to release the article and deposit the same upon the receiving means, one of said members embodying a pulley, means arranged in the path of travel of the pulley to frictionally coact with the same in the movement of the gripping members to effect rotation of the said gripping members and the article supported between the same, and concentric spaced shields arranged for the passage therebetween of the article during the period of rotation thereof.

1,681,302. HYDROCARBON BURNER. CHARLES E. MAIN, Kansas City, Mo. Filed Dec. 9, 1922, Serial No. 605,908 Renewed June 30, 1928. 5 Claims. (Cl. 158—66.)



5. In a device of the kind described, a combustion chamber having a draft flue provided with draft regulating means, a tubular burner body having an air inlet communicating with the atmosphere at the exterior of the combustion chamber, means for regulating said air entering said inlet, a vaporizing chamber in said combustion chamber having an outlet, means for supplying liquid fuel to said vaporizing chamber, a superheating chamber communicating with said outlet, a mixing chamber comprising a discharge nozzle disposed so as to discharge against the outer surface of said vaporizing chamber in said combustion chamber, and an air conductor supporting said mixing chamber and discharging therein and longitudinally adjustable, so as to fix said nozzle at different distances from said vaporizing chamber and having an air inlet provided with draft regulating means and communicating with the atmosphere at the exterior of said combustion chamber, said conductor and said superheating chamber being disposed so as to be heated in said combustion chamber by the flame of mixed vapor and air discharged from said nozzle, substantially as set forth.

1,681,303. SIDE FRAME FOR CAR TRUCKS. MARK H. MARTIN, Baltimore, Md., assignor to T. H. Symington & Son, Inc., Baltimore, Md., a Corporation of Maryland. Filed July 19, 1926. Serial No. 123,377. 26 Claims. (Cl. 105—197.)

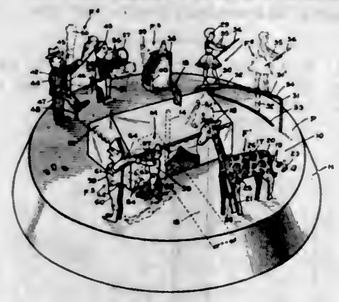


1. A side frame comprising a pocket provided with a drain hole and a spring assembly composed of associated springs and a laminated spring mounted in said pocket and arranged for engagement with a truck bolster.

1,681,304. CIRCUS TOY. LOUIS MARX, Brooklyn, N. Y. Filed Dec. 1, 1926. Serial No. 151,926. 12 Claims. (Cl. 46—40.)

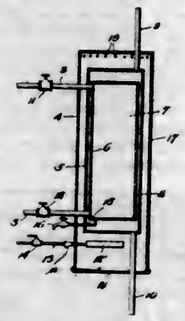
1. A toy of the character described comprising a platform, a plurality of independently movable figures representing circus performers arranged on said platform, said figures being provided with operating means protruding

through said platform, and a motor means unconnected to said performing figures, whereby said figures are movable independently of each other, said motor means including an



operating member arranged below said platform and movable cyclically into cooperation with the said operating means of the performing figures when the motor means is operated to impart action to such figures in succession.

1,681,305. WATER HEATER. ALPHONSE F. MONEUSE, Valley Stream, N. Y. Filed Dec. 2, 1925. Serial No. 72,783. 1 Claim. (Cl. 122—37.)



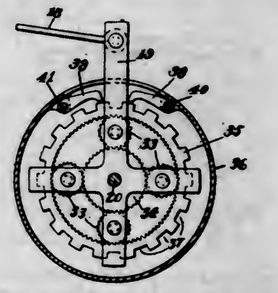
In combination with the water chamber of a boiler, a storage tank, a water heater interposed between said boiler and tank, said heater comprising inner and outer casings, providing inner and outer water chambers, valve connections between the boiler and the inner chamber thereby enabling said inner chamber to be entirely cut off from the boiler, connections between the outer chamber of the heater and the storage tank whereby when the water is heated in the outer chamber it will be caused to circulate into and through said storage tank, means for draining the inner heating chamber, and means for supplying heat to the outer casing when it is desired to augment the heat in the outer chamber or to alone heat the water in said outer chamber.

1,681,306. MACHINE FOR CUTTING TO LENGTH CONTINUOUSLY-FORMING TUBING. JOHN W. MOON, Butler, Pa., assignor to Fretz-Moon Tube Company, Butler, Pa., a Corporation of Pennsylvania. Filed Mar. 23, 1925. Serial No. 17,673. 8 Claims. (Cl. 29—69.)



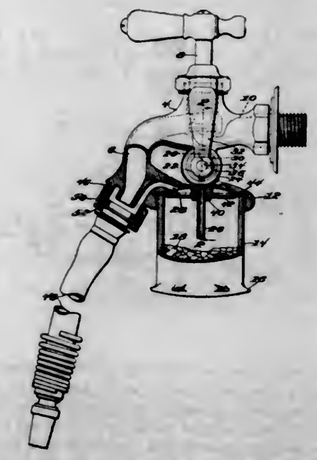
5. In a machine for cutting continuous tubing to length, the combination with means to feed forward finished tubing, of a shaft extending in the direction of the tubing and movable in the direction of its axis and rockable on its axis; a stop, a tube guide and a saw, all movable with the shaft in the direction of its axis; said step being adapted to be engaged by the advancing tubing and, together with the tube guide and saw, to be moved forward with the tubing, means operable by the shaft in its rocking movement to bring the saw and tubing into operative relationship and thereby effect a severance of a tube section, a lever adapted to be operable after the engagement of the tubing with said stop and connected with said shaft and also with said stop and adapted, in the first part of its swinging movement in one direction, to rock shaft as aforesaid and in a subsequent part of its movement in the same direction to withdraw said stop and release the cut-off section, and conveying means adapted to carry forward the cut-off section.

1,681,307. VALVE-REVERSING MECHANISM. ERNEST B. PACKARD, Rockland, Me. Filed May 29, 1925. Serial No. 33,818. 5 Claims. (Cl. 137—139.)



1. Valve reversing mechanism, comprising a rotatable reversing device, a continuously oscillating member for rotating said reversing device in one direction or the other, and a planetary gear drive normally permitting said oscillating member to oscillate idly but effective under certain conditions to transmit movement in one direction or the other to said reversing device.

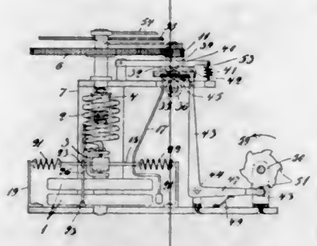
1,681,308. WASHING APPARATUS. SAMUEL D. PARKER, Boston, Mass., assignor to Dario Company, Boston, Mass., a Corporation of Massachusetts. Filed May 13, 1925. Serial No. 29,948. 3 Claims. (Cl. 299—84.)



1. A washing apparatus comprising a faucet for selective discharge of clear or soapy water having a body provided with a water passage having a downwardly extending out-

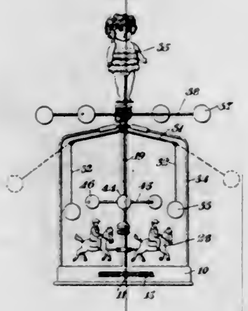
let and a soap container closure formed integrally on the underside of the body, a soap container depending from the body and secured to the closure and adapted to contain a supply of soap to be dissolved by water diverted from the main passage, the body having branch passages extending from the main passage toward the soap container and thence outwardly from the top of the container to the downwardly extending outlet of the main passage, and a valve for controlling the flow of water in the branch passages whereby either the water may be caused to flow entirely through the main passage or a portion thereof may be diverted from the main passage through the branch passages and the soap container.

1,681,309. APPARATUS FOR MEASURING VARIABLE FORCES. JOSUA GABRIEL PAULIN, Stockholm, Sweden. Filed May 19, 1926. Serial No. 110,257, and in Sweden Mar. 21, 1925. 14 Claims. (Cl. 265—1.)



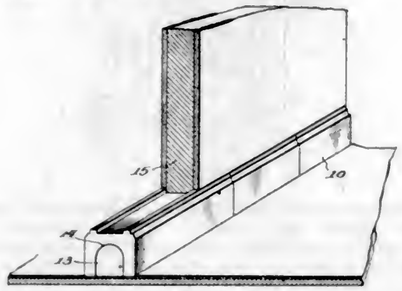
1. An apparatus for measuring variable forces comprising in combination a measuring member movable under the influence of the forces to be measured, a counter-spring acting upon the measuring member, a resetting mechanism adapted to vary the tension of the counter-spring, a zero setting member connected with said measuring member, and driving means under the control of the zero setting member for imparting intermittently resetting impulses of limited amplitude, according to the position of the zero setting member, in either direction to said resetting mechanism.

1,681,310. TOY ROUNDABOUT. HARRY M. REINER, Bronx, N. Y. Filed Dec. 14, 1926. Serial No. 154,661. 1 Claim. (Cl. 272—31.)



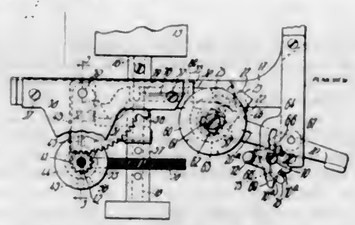
In a toy roundabout, a container forming a base, a spring motor within the container, a shaft projecting upwardly from the container and operatively connected to the spring motor to be driven thereby, stanchions fastened to the container and projecting upwardly therefrom and having their ends cooperating to form a journal for the shaft, arms associated with the shaft, weighted members, cords suspending said weighted members from the ends of said arms, said stanchions being positioned in the paths of said cords when the weighted members are thrown centrifugally, a tube surrounding the shaft loosely above said container, a pawl and ratchet connection between said tube and shaft, and members rotated by and with said tube.

1,681,311. WALL CONSTRUCTION. EWALD F. TECHMER, Chicago, Ill. Filed Feb. 9, 1928. Serial No. 252,978. 1 Claim. (Cl. 72—37.)



In a partition wall construction, a molded base block formed with integral base boards and adapted to support a wall core, said base block having a central flat wall core supporting surface, plaster coat engaging surfaces on both sides of said central core supporting surface, shoulders extending transversely between said core supporting surface and plaster coat engaging surfaces, defining a recessed core supporting surface of substantially the same width as said wall core, said transverse shoulders being inclined to provide tapered guides for locating said core, the said base having flat exterior surfaces extending downward from said plaster coat engaging surfaces and adapted to serve as grounds in plastering whereby plaster coating may be applied substantially flush with the flat exterior surface.

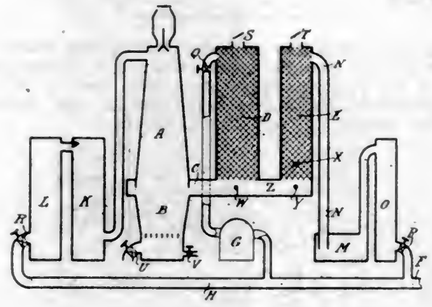
1,681,312. TYPEWRITING MACHINE. LINDEN A. THATCHER, Belleville, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed June 11, 1925. Serial No. 36,347. 29 Claims. (Cl. 197—114.)



1. A typewriting machine including a revoluble platen, a line-space lever, micrometrical means mounted on the line-space lever to predetermine a single line-space unit of rotation for the platen, and settable means to vary the normal position of the line-spacer lever to predetermine some multiple of the single-line-space unit for a full line-space rotation of the platen.

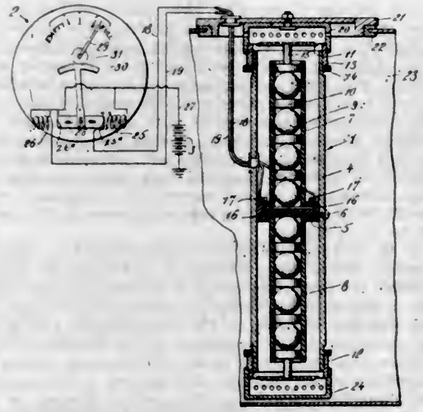
1,681,313. APPARATUS FOR THE MANUFACTURE OF MIXED GAS. MORRIS WILLIAM TRAVERS, London, and FRANK WILLIAM CLARK, Lymm, England, assignors to Regenerative Coal Gasification System, Limited, Manchester, England. Original application filed June 12, 1924, Serial No. 719,585, and in Great Britain June 29, 1923. Divided and this application filed Feb. 12, 1926. Serial No. 87,862. 5 Claims. (Cl. 48—71.)

2. In a plant for making gas from carbonaceous material, the combination of a carbonization chamber, a gasification chamber beneath and in communication with the bottom of the carbonization chamber, means for supplying air and gas alternately to the bottom of the gasification chamber, a regenerator in communication with the top of the gasification chamber and with the bottom of the carbonization



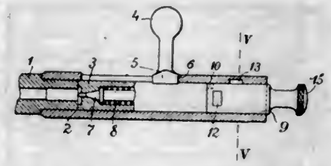
chamber, a separate gas enriching chamber in open communication with the regenerator means for spraying oil into the enriching chamber, and means for forcing some of the gas issuing from the top of the carbonization chamber through the regenerator and into the bottom of the carbonization chamber.

1,681,314. FUEL GAUGE FOR MOTOR VEHICLES. CHARLES E. VAWTER, Philadelphia, Pa. Filed Jan. 8, 1921, Serial No. 435,804. Renewed Jan. 13, 1928. 2 Claims. (Cl. 177—351.)



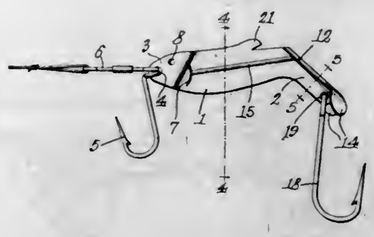
2. In a gauge for fuel tanks of motor vehicles, the combination with a fuel tank of a pressure-sensitive electrical resistance means therein comprising two pressure surfaces exposed, respectively, to the pressure existing in the top and bottom of the tank and a pair of electrical resistance subject, respectively, to the pressure on said surfaces and whose resistance is altered thereby, separate circuits for said two resistances and a measuring instrument having two opposed coils connected to said circuits, respectively, and adapted to indicate variations in the current in the two circuits but to be unaffected by equal changes in the current in the two circuits.

1,681,315. SAFETY MECHANISM FOR FIREARMS. RUDOLF VON FROMMER, Budapest, Hungary. Filed Aug. 10, 1926, Serial No. 128,496, and in Hungary Aug. 14, 1925. 2 Claims. (Cl. 42—16.)



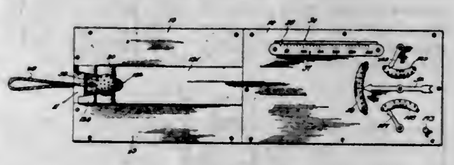
1. In firearms of the kind described a breech casing and a firing pin the said firing pin having a projection and the said breech casing having a groove means on the said firing pin to turn its projection in the said groove in the pulled back position of the firing pin.

1,681,316. MINNOW. VANCE SYLVIAN WATERS, Seattle, Wash. Filed Oct. 3, 1927. Serial No. 223,699. 5 Claims. (Cl. 43—46.)



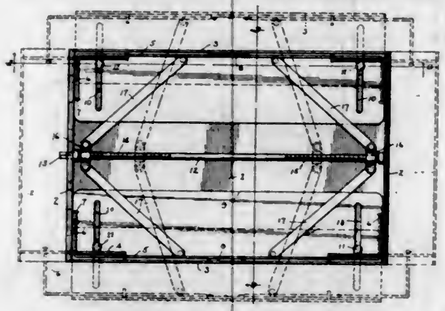
1. An artificial bait comprising a plate-like body having a depending tail provided with a transverse extension which is upwardly and forwardly inclined, the extension being located partly on each side of the tail and having its lower corners downwardly and forwardly inclined.

1,681,317. GOLF-PRACTICING MACHINE. JOHN CLAYTON BACKUS, Smethport, Pa. Filed June 4, 1925. Serial No. 34,909. 81 Claims. (Cl. 265—22.)



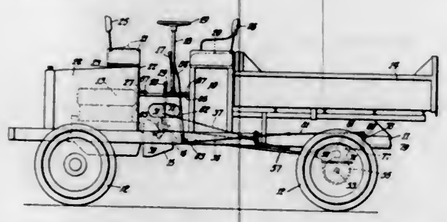
1. A golf practicing machine including a captive ball, mechanism for indicating deflection of flight of the ball from a straight path when the ball is driven, a flexible element securing the ball captive, and separate means engaged with the intermediate portion of said element and operable thereby for actuating said mechanism.

1,681,318. ADJUSTABLE FILE AND HOLDER. EDWARD A. BANSCHBACH, Chicago, Ill. Filed Aug. 11, 1920. Serial No. 402,789. 11 Claims. (Cl. 129—43.)



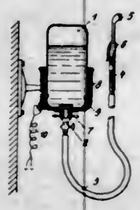
1. In a file of the class described, a receptacle having hinged ends and slidable sides to open up and widen the receptacle to facilitate access thereto.

1,681,319. MOTOR VEHICLE. LINTON G. BARTLETT, Waukegan, Ill., assignor to William L. O'Connell, Chicago, Ill. Filed Apr. 6, 1922. Serial No. 549,997. 17 Claims. (Cl. 180—77.)



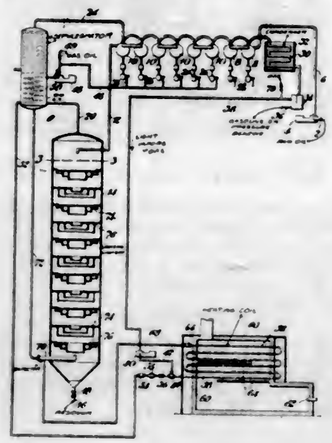
1. In a motor vehicle, the combination comprising a pair of foot levers arranged to be operated by the right and left feet respectively of the driver, oppositely located driving seats conveniently arranged for operation of said foot levers, and mechanism associated with said levers and the clutch and brakes whereby the foot lever, occupying respectively a definite position relative to the driver when driving from either seat, operates the same instrumentality.

1,681,320. PROCESS FOR THE PREPARATION OF A LIQUID FOR RINSING THE MOUTH AND MEANS FOR APPLYING IT. KLEMENS BERGL, Berlin, and WALTER DIETRICH, Berlin-Friedenau, Germany, assignors to the Firm: Max Gottlieb, Berlin, Germany. Filed Apr. 28, 1927, Serial No. 187,338, and in Germany Aug. 3, 1926. 7 Claims. (Cl. 128—224.)



1. A method of producing a rinsing and cleansing liquid and conveying it into the mouth, nose or ears through an injection appliance, consisting in filling a closable container with water shortly before use and then introducing into the said container chemicals consisting of carbonic acid salts and solid acids, bringing the solid chemicals into contact with the water and thereby developing gas, and allowing the mixture thus formed to flow under the pressure thus produced from the container through the injection appliance to the cavity, as and for the purpose set forth.

1,681,321. PROCESS AND APPARATUS FOR TREATING OIL. DAVID G. BRANDT, Westfield, N. J., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 23, 1922. Serial No. 545,974. 5 Claims. (Cl. 196—66.)

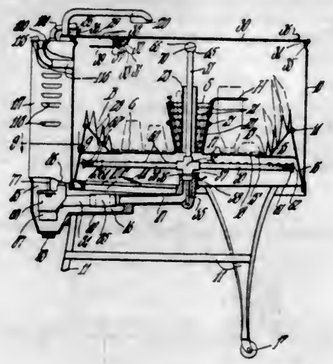


1. A process of cracking high boiling-point hydrocarbons to form low boiling-point hydrocarbons comprising maintaining a body of high boiling-point oil under pressure, vaporizing a lower boiling-point oil in contact with vapors, said lower boiling point oil having a relatively narrow boiling point range and said vapors being of the type that remain uncondensed after passing through the ordinary gasoline condenser, passing the mixed vapors through the body of high boiling point oil to crack the oil, condensing undesired fractions from vapors leaving the high boiling-point oil and mixing this condensate with similar boiling-point oil to form said lower boiling point oil for the process.

5. In an apparatus of the kind described, a cracking chamber, means for preheating oil, a conduit for leading oil from the preheating means to the said cracking chamber, a dephlegmator, means for passing vapors from the said cracking chamber to the dephlegmator, and means for returning vapors condensed in the dephlegmator to the cracking chamber, a series of condensers, means for conducting vapors from the dephlegmator to the condensers, means for separating the heavier portion of the vapors condensed in the condensers and passing it through the dephlegmator to be preheated and from thence to a heating coil, means for passing uncondensed vapors from the condensers to the said heating coil, means for heating the said coil, and means connecting the said heating coil with the cracking chamber.

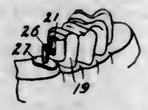
1,681,322. WASHING MACHINE. HENRY CAVE, Springfield, Mass., assignor to The Fuller Brush Company, Hartford, Conn., a Corporation of Connecticut. Filed May 17, 1922. Serial No. 561,686. 12 Claims. (Cl. 141—9.)

1. In a washing machine, a washing compartment, an inlet pipe opening into the latter, means to force liquid through said pipe, a spray rotor in said compartment having a part mounted in telescoping relation with said pipe and rotatable relatively thereto during the washing



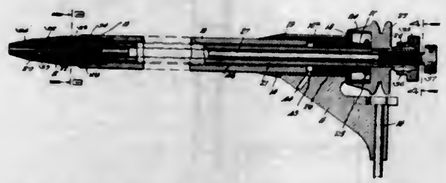
operation, and releasable means in the compartment for preventive relative axial displacement of said rotor and pipe.

1,681,323. REMOVABLE DENTURE. HERMAN E. S. CHAYES, New York, N. Y. Filed July 9, 1919. Serial No. 309,681. 1 Claim. (Cl. 32—12.)



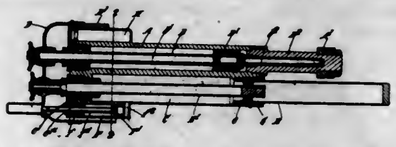
In combination, a pier and a removable denture, said pier having a socket with an open-ended slot in the exposed side thereof and a cooperating substantially T-shaped connecting member on the denture having a shank received in the slot in the side of the socket and angularly outstanding spring wings yieldingly engaging in the body of the socket, a relatively stationary pin adjacent the pier and a socket on the denture positioned to fit said pin.

1,681,324. DENTAL INSTRUMENT. HERMAN E. S. CHAYES and AUGUST P. JURGENSEN, New York, N. Y., assignors, by mesne assignments, to Chayes Dental Instrument Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 4, 1924. Serial No. 735,847. 3 Claims. (Cl. 32—15.)



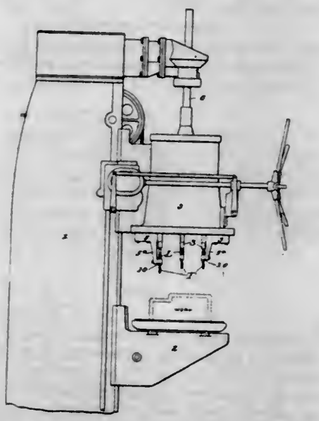
1. In a dental drill head, a cylindrical casing having a spindle mounted therein, a bearing sleeve secured about said casing, a bracket rotatably supporting said bearing sleeve, an adjustable bearing mounted in one end of the casing, and a single means for holding said bearing in adjusted position and for holding said casing in position in said bracket.

1,681,325. RECOIL AND RUN-OUT APPARATUS FOR ORDNANCE. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, England. Filed Apr. 8, 1927, Serial No. 181,934, and in Great Britain Apr. 13, 1926. 16 Claims. (Cl. 89—43.)



1. Ordnance recoil and run-out apparatus comprising a recoil cylinder, a pneumatic recuperator the interior of which does not communicate with the interior of the recoil cylinder, and a hollow ram which is caused to enter the recuperator cylinder during the recoil of the gun so as to compress the air in said recuperator cylinder and the interior of which communicates with the interior of the recuperator cylinder so as to act as a reservoir for compressed air.

1,681,326. INDIVIDUAL POWER FEED FOR MULTIPLE TAPPING MACHINES. ADOLPH L. DE LEEUW, Plainfield, N. J. Filed Nov. 18, 1926. Serial No. 149,243. 13 Claims. (Cl. 10—130.)



10. A tapping machine combining a tool-head; a plurality of spindle-supporting arms adjustably secured to said tool-head; a spindle supported by each of said arms; a threaded member translatably but non-rotatably carried by each of said spindles; a tap carried by each of said threaded members and adapted to be rotated thereby; a plurality of nuts each having a threaded engagement with one of said members and serving to translate said members independently as they are rotated by the spindles; and means to support said nuts from said spindle supporting arms.

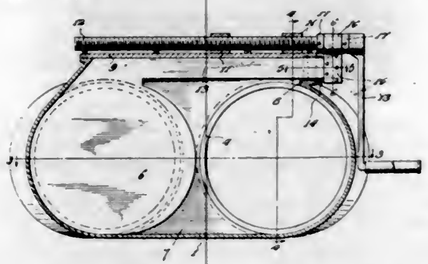
1,681,327. BOOT AND SHOE STIFFENER. HORACE M. EATON, Dennis, Mass., assignor of one-half to George L. Preble, Lynn, Mass. Filed Mar. 18, 1924. Serial No. 700,012. 11 Claims. (Cl. 154—46.)



11. A stiffener for boots and shoes comprising a sheet of fabric having a mass of fibers anchored thereto, a matrix containing a cellulosic material and a finely comminuted

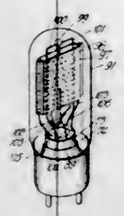
substance impregnating said fibers, and a thin membrane in contact with said fibers upon one face of the sheet, said membrane being partially permeable by the cellulosic material when it is treated with a suitable solvent.

1,681,328. VALVE. OLE P. ERICKSON, Wildwood, N. J. Filed May 10, 1927. Serial No. 190,279. 2 Claims. (Cl. 251—73.)



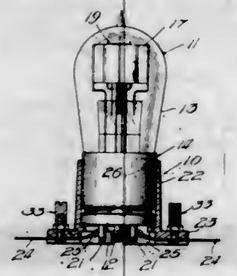
1. The combination with a Y-coupling having a transverse opening in the top of its outlet portion, a box upon the coupling at the said opening, a valve disposed within the outlet portion of the coupling and having a stem disposed within said box, and means connected with the stem and mounted on the box whereby to shift the valve to close either outlet of the coupling.

1,681,329. VACUUM TUBE. CLAUDE E. FITCH, Wilmette, Ill. Filed Oct. 30, 1925. Serial No. 65,774. 2 Claims. (Cl. 250—27.5.)



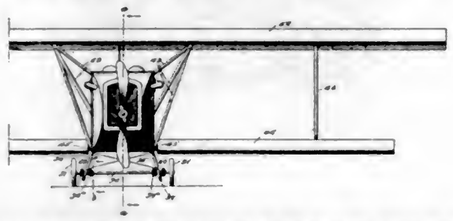
1. In a sealed glass vessel of the character described, a bulb portion, a stem portion extending inwardly from one end thereof, an exhaust tube joined integrally to said stem portion at the inner end thereof and open at its inner end to form an annular wire anchoring portion and an annular series of wires sealed in said annular wire anchoring portion.

1,681,330. SOCKET. EDMUND T. FLEWELLING, Highland Park, Ill., assignor to Roy D. Buell, Chicago, Ill. Filed Nov. 7, 1923, Serial No. 673,287. Renewed Dec. 31, 1927. 4 Claims. (Cl. 173—328.)



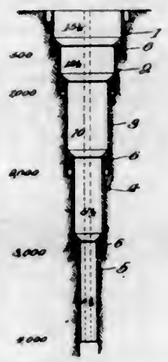
1. In a socket for electrical appliances, the combination comprising means for receiving the electrical terminals of said appliances, a plurality of flat metallic contact strips projecting into said socket and arranged to be engaged at their ends only by the respective appliance terminals upon rotation of the appliance in said socket, the ends of said strips being arranged tangentially to the arcs travelled by the respective terminals upon rotation of said appliances, and projecting inwardly a distance somewhat greater than necessary for mere contact whereby said strips are distorted by said terminals when the appliance terminals are brought into contacting position.

1,681,331. AIRPLANE. ANTHONY H. G. FOKKER, Amsterdam, Netherlands, assignor to Atlantic Aircraft Corporation, a Corporation of New Jersey. Filed May 25, 1923. Serial No. 641,324. 3 Claims. (Cl. 244—12.)



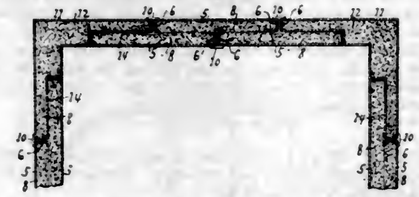
1. A double duty airplane for flying at high speed with a relatively small lift or for flying at a lower speed with a greater lift, comprising a fuselage, a wing located above the fuselage, supporting struts for said wing, inclined downwardly and inwardly from a point on said wing adjacent the vertical plane of each side of the fuselage and connected to the fuselage at their lower ends, said wing functioning as a supporting surface for the airplane for high speed flight, a pair of removable auxiliary supporting surfaces attachable to the sides of the fuselage below said wing for converting the airplane into a biplane, quick-detachable means for securing the auxiliary surfaces to the fuselage and detachable struts connecting each of said auxiliary surfaces and said wings at a point remote from the fuselage, said auxiliary surfaces being solely supported by their jointure with the fuselage and said detachable struts.

1,681,332. WELL CASING. WILLIAM W. FRY, Los Angeles, Calif., assignor of one-half to Robinson Packer Company, Tulsa, Okla., a Corporation of Oklahoma. Filed Dec. 10, 1924. Serial No. 754,991. 1 Claim. (Cl. 166—4.)



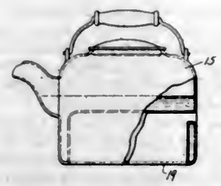
A casing for wells composed of a series of telescopic strings extending from the top to the bottim thereof having packers arranged between the concentric walls of the overlapping strings at their upper ends for detachably connecting said sections together, said packers having head portions extending inwardly beyond the inner walls of the overlapping strings.

1,681,333. SECTIONAL OVEN WALL. CHARLES L. GEHNRICH, Elmhurst, N. Y. Filed May 16, 1927. Serial No. 191,777. 7 Claims. (Cl. 72—16.)



1. A sectional oven wall comprising a plurality of inner and outer panels one behind the other the meeting ends of the outer panels being covered by the panels behind them each panel having a packing of insulating material, and means relative to each pair of panels for locking them together.

1,681,334. LIQUID HEATER. OTTO GESS, Brooklyn, N. Y. Filed Jan. 19, 1927. Serial No. 162,109. 1 Claim. (Cl. 53—9.)

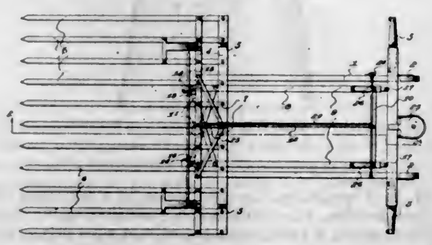


A liquid heating vessel comprising a bottom, elongated, slot-like chambers formed in said bottom and having the end walls thereof spaced from the wall of the vessel, the upper portions of one end of the chamber opening to the exterior of the vessel, and said chambers forming communicating water holding compartments in said vessel, the chambers extending lengthwise of the vessel and presenting to the liquid held in the vessel the maximum heating surface.

1,681,335. STABLE SUSPENSION AND PASTE OF COAL. ROBERT GRIESSBACH and JULIUS EISELE, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Mar. 23, 1927, Serial No. 177,832, and in Germany Mar. 24, 1926. 2 Claims. (Cl. 44—8.)

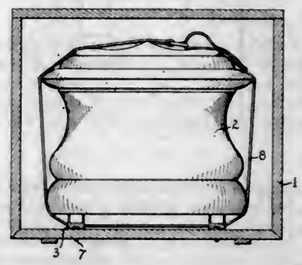
1. The process of producing stable suspensions of coal which consists in mechanically dispersing the coal in a liquid alcohol with an addition of a base soluble therein.

1,681,336. RAKE. ARTHUR T. GRIFFITH, Cozad, Nebr. Filed June 26, 1926. Serial No. 118,694. 8 Claims. (Cl. 56—395.)



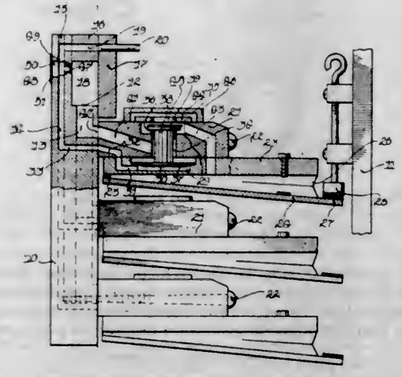
1. A rake comprising a member provided with teeth projecting from the forward end thereof, said member being supported on wheels, a second member slidably engaged with the teeth of the first-named member and means carried by one of said members to engage the other member to interlock same when the second member is in its extreme forward position whereby said members will move forward in unison.

1,681,337. COMBINED CASKET REST AND STRAP SLIDE. FLETCHER D. GRUND, Toledo, Ohio, assignor to The Sozonian Burial Vault Company, a Corporation of Ohio. Filed Jan. 13, 1928. Serial No. 246,414. 3 Claims. (Cl. 27—1.)



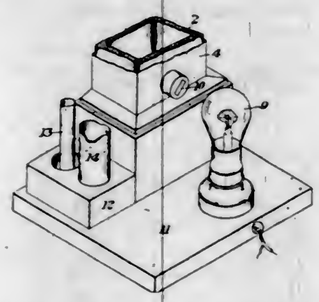
1. A support for caskets or the like, comprising an arched member adapted to be fixed to the bottom of a vault to receive a strap therethrough, a supporting flange on the upper portion of said member on which a casket is adapted to rest, and teeth on the underside of said arched member for preventing slipping of the strap.

1,681,338. VALVE FOR PLAYER PIANOS. AXEL G. GULBRANSEN, Chicago, Ill., assignor to Gulbransen Company, Chicago, Ill., a Corporation of Illinois. Original application filed June 3, 1915, Serial No. 31,815, Patent No. 1,349,273, dated Aug. 10, 1920. Divided and this application filed Aug. 9, 1920. Serial No. 402,258. 4 Claims. (Cl. 84—62.)



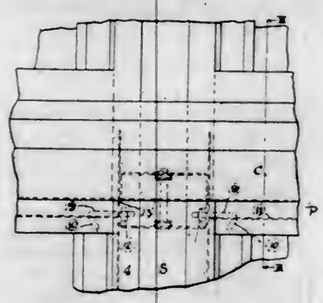
1. In a pneumatically actuated musical instrument, a valve block having a bore extending from top to bottom thereof and having its upper portion enlarged forming a valve chamber, the block being provided with a rectilineal air passage extending from one side of the block and opening into the bore, said block having a second air passage extending from the same side of the block as the first passage, the second passage having an upper rectilineal portion and a lower portion extending from the under face of the block, the block also having a third air passage comprising an upper rectilineal portion extending from the valve chamber and a lower portion extending from the under face of the block.

1,681,339. METHOD AND APPARATUS FOR DETERMINATION OF THE CONCENTRATION OF TURBID SUSPENSIONS. RALPH E. HALL, Pittsburgh, Pa., assignor to John M. Hopwood, Dormont Borough, Pa. Filed Dec. 13, 1924. Serial No. 755,721. 9 Claims. (Cl. 88—14.)



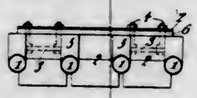
1. The method of determining the concentration of a suspension which comprises diluting a measured quantity of the suspension with a clear, miscible liquid until a luminous object attains a predetermined standard of visibility when viewed through a predetermined thickness of the diluted suspension, viewing the object through the suspension, and measuring the quantity of liquid present when such visibility is obtained whereby the concentration of the suspension may be determined.

1,681,340. DEMOUNTABLE WALL CONSTRUCTION. EARL F. HAUSERMAN, Cleveland Heights, LEROY D. MOWERY, Cleveland, and JOHN A. BOHNSACK, East Cleveland, Ohio, assignors to The E. F. Hauserman Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 7, 1926. Serial No. 134,111. 8 Claims. (Cl. 189—34.)



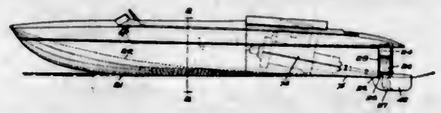
1. In construction of the character described, the combination of a hollow post, a panel member engageable with said post, and take-up means insertible wholly from within said post for securing said panel member to said post.

1,681,341. WATER-COOLED FURNACE WALL. ALBIN BERTHOLD HELBIG, Berlin, Germany. Filed May 18, 1925, Serial No. 31,229, and in Germany Jan. 10, 1925. 6 Claims. (Cl. 122—6.)



1. In a wall structure for furnaces, spaced water tubes, firebrick arranged between said tubes and projecting from opposite sides thereof, said firebrick provided on their opposite side faces with horizontal shoulders for interlocking engagement with each other, additional firebrick arranged upon one side of said tubes between said first-named firebrick, an elastic insulating sheet covering the outer face of the wall structure, a plate engaged upon said insulating sheet, and fastening devices connected with certain of the first-named bricks and extending through said insulating sheet and the plate and thereby uniting the bricks in assembled relation while permitting of their relative expansion under heat.

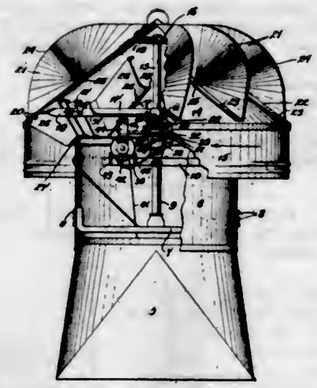
1,681,342. BOAT. WILLIAM ALBERT HICKMAN, West Mystic, Conn. Filed Jan. 10, 1923. Serial No. 611,886. 14 Claims. Cl. 114—66.5.)



1. A boat having a hull, a single propeller having a hub normally emersed when the boat is under way and a fixed non-steering plate having a portion immersed in the water laterally of said propeller at a clearance therefrom to provide a body of water in which the propeller blades freely turn and which reacts on said surface.

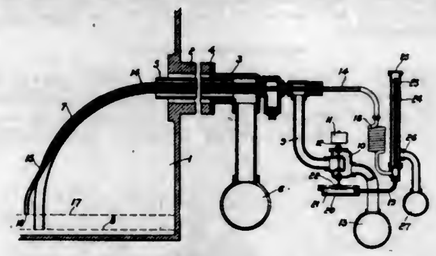
11. A high speed motor boat having a bottom presenting a concavity of inverted V section gradually broadening from a point forward to a point aft in substantially smooth longitudinal curves to provide generally diagonally presented surfaces and longitudinal water breaks along the sides of the concavity opposing the tendency of the water to cling to the sides of the concavity to fill the same.

1,681,343. ROTARY VENTILATOR. WILLIAM F. HIRSCHMAN, Le Roy, N. Y. Filed Aug. 10, 1926. Serial No. 128,384. 2 Claims. (Cl. 98—72.)



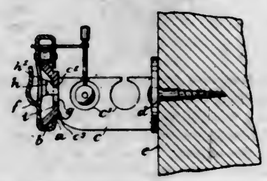
1. In a ventilator, the combination of a revolving wind driven member, an electric motor, a ventilating fan driven by said motor, a switch mounted on said wind driven member and actuated by centrifugal force to deenergize said motor when said wind driven member is rotated faster than a predetermined speed and means for adjusting said switch to vary said predetermined speed.

1,681,344. CONDENSATE-REMOVING SYSTEM. ROBIN BELL-IRVING and PERCY SANDWELL, Powell River, British Columbia, Canada. Filed Dec. 23, 1926. Serial No. 156,729. 9 Claims. (Cl. 137—103.)



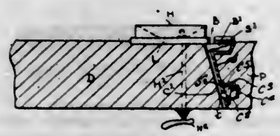
1. The combination of a hollow body having a steam inlet, a normally closed main condensate outlet, a normally open auxiliary condensate outlet and means for opening the main outlet in response to an initial discharge of condensate through said auxiliary outlet.

1,681,345. CURTAIN RAIL AND SUPPORT THEREFOR. ROBERT CRAWFORD JOHNSON, Roxton, Leicester, England. Filed Feb. 26, 1926, Serial No. 90,906, and in Great Britain Mar. 16, 1925. 4 Claims. (Cl. 156—20.)



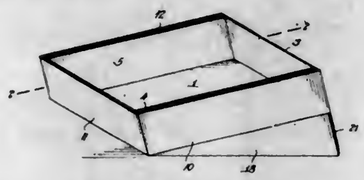
3. A curtain runner support comprising a pair of brackets constructed to be secured to a support and project therefrom, each of said brackets having a vertically disposed front face, a hook projecting forwardly from said front face intermediate its vertical length, and a rail having spaced apertures to receive the hooks, said rail having a thickness equal to the distance between the hooks and vertical face of the brackets whereby the rail is held in vertical position against the vertical faces of the brackets.

1,681,346. LATCH FOR THE DOORS OF MOTOR ROAD VEHICLES. WALTER KELITA KAYE, Leeds, England. Filed Mar. 10, 1926, Serial No. 93,566, and in Great Britain June 27, 1925. 2 Claims. (Cl. 292—340.)



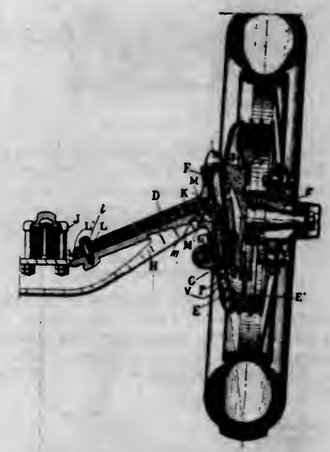
1. A door fastening device, comprising a striking plate mounted in the door frame and provided with a pair of recesses open toward the door opening, one of said recesses adapted to receive the door retaining bolt when projected, and a pivotally mounted spring-pressed safety catch disposed in the other recess and having a portion normally projecting beyond the outer surface of the plate, said catch being adapted to engage the bolt and stop movement of the door in the opening direction and to be pressed into its recess during the movement of the door in the closing direction.

1,681,347. DISPLAY BOX. ALBERT E. KEPPLER, Philadelphia, Pa., assignor to Brown & Bailey Company, a Corporation of Pennsylvania. Filed Oct. 21, 1924. Serial No. 744,875. 5 Claims. (Cl. 206—44.)



1. A foldable display box made from an elastic material and comprising telescoping box and support sections, said support section comprising elastic members which, when said support section is withdrawn from said box section, spring underneath the latter and form an inclined support therefor.

1,681,348. STEERING-WHEEL BRAKE. ISAAC KOECHLIN, Levallois-Perret, France, assignor to Société Anonyme des Automobiles et Cycles Peugeot, Levallois-Perret, France. Filed Feb. 14, 1925, Serial No. 9,074, and in France Mar. 31, 1924. 3 Claims. (Cl. 188—194.)

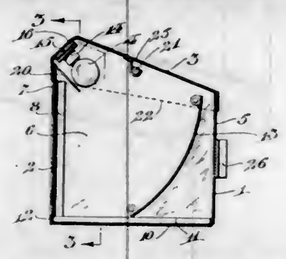


1. In a steering wheel brake the provision of a tubular kingpin for the steering swivel of the wheel, a flexible traction member extending longitudinally through said tubular kingpin, means for connecting one end of said traction member to the transmission gear operated by the driver, a sliding block connected to the other end of said flexible member and cooperating with the inner surface of said tubular kingpin whereby said sliding block may be displaced longitudinally but is prevented from turning in said kingpin, a rigid member integral with said sliding block, and a ball and socket connection between the end of said rigid member and the operating member for the braking members.

1,681,349. ILLUMINATED VEHICLE LICENSE TAG AND HOLDER FOR SAME. PAUL A. KRAUSE, Woodlynne, N. J. Filed Apr. 22, 1926. Serial No. 103,710. 3 Claims. (Cl. 40—133.)

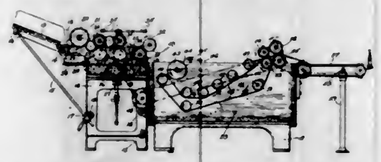
1. A license tag holder including a casing consisting of a piece of sheet metal bent to form a back, sides and inwardly extending flanges on the sides; angle bars secured to the sides adjacent the flanges to form grooves therewith; a bottom, having an upwardly extending flange, secured to the back and the sides with the flange abutting

the flanges of the sides; a license tag mounted in the grooves with the lower edge of the tag in rear of the bottom flange; a lid on the sides and back of the casing



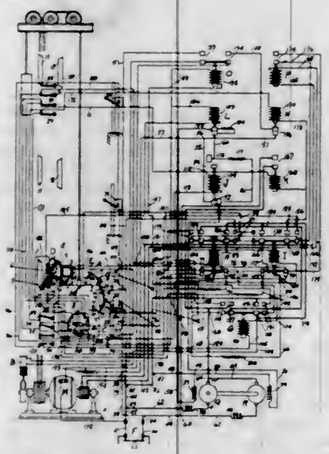
and extending below the upper edge of the license tag; a reflector secured within the casing to the sides thereof, and illuminating means mounted on the lid.

1,681,350. METHOD AND MACHINE FOR GLOSS COATING PAPER. ELIE W. LABOMBARDE, Nashua, N. H. Filed Mar. 2, 1922, Serial No. 540,604. Renewed Jan. 16, 1928. 9 Claims. (Cl. 91—51.)



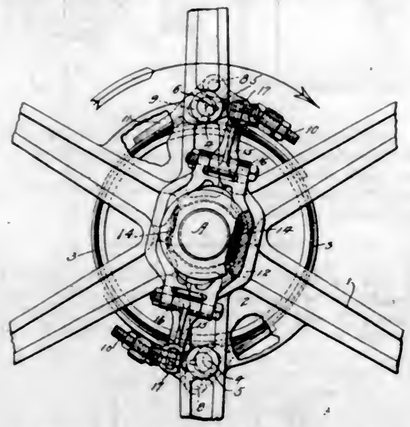
1. The method of producing moisture-proof paper, consisting in flooding the paper with an indeterminate quantity of melted wax in free motion, without subjecting the paper to immersion in the wax, removing surplus wax from both surfaces of the paper, and cooling the wax before it is absorbed by the paper.

1,681,351. SPEED-CONTROL SYSTEM FOR ELECTRIC ELEVATORS. JACOB D. LEWIS and GEORGE WILLIAM LAUTRUP, Yonkers, N. Y., assignors to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 13, 1922. Serial No. 574,617. 3 Claims. (Cl. 172—152.)



1. A system of control for an electric work motor, comprising in combination, a source of current, a motor generator set having the armatures of the motor and the generator connected in series to said source of current, means for connecting the armature of the work motor in parallel with the armature of the generator, and means for connecting under certain operating conditions the armature of the work motor directly to the source of current while maintaining said armature connected to the armature of said generator.

1,681,352. EASILY-OPERATED CLUTCH. ERICH H. LICHTENBERG, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed June 12, 1925. Serial No. 36,742. 5 Claims. (Cl. 192—80.)



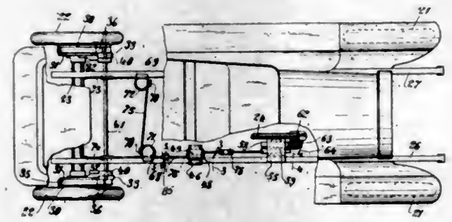
1. In clutch means of the class described, in combination, a relatively movable clutch member, a relatively stationary clutch member, a pair of clutch bands surrounding the relatively stationary member, the ends of one clutch band being opposite the ends of the other clutch band, a floating equalizing member arranged to turn with the movable clutch member, equalizing connections between said movable clutch member and the opposite ends of the said clutch bands, a clutch shifting collar for the equalizing member to cause operation of its equalizing connections for applying the bands to the stationary clutch member and yieldable means to prevent relative movement of the equalizing member and the shifting collar therefor, except as required and incidental to its equalizing function.

1,681,353. PROCESS OF FORMING ROADS AND THE LIKE. MARCEL LÉVY, Geneva, Switzerland, assignor to "Prodor" Fabrique de Produits Organiques S. A., Geneva, Switzerland. Original application filed Nov. 2, 1922, Serial No. 598,651, and in Great Britain Jan. 3, 1922. Divided and this application filed July 22, 1924. Serial No. 727,574. 3 Claims. (Cl. 94—23.)



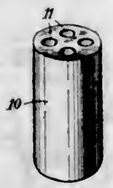
1. The method of laying a roadway which comprises forming a substratum of a pitch concrete which is hard, non-plastic and has a crushing strength of at least about 4,000 to 5,000 lbs. per square inch and tensile strength when the large aggregate is not present of about 400 to 500 lbs. per square inch and substantially retains these properties under temperature conditions of use by first mixing said pitch concrete by incorporating into hard pitch under the action of heat a graded aggregate and filling material, laying this mixed pitch concrete as a substratum and covering this substratum with a thin coating of a plastic substance which solidly adheres thereto.

1,681,354. BRAKE MECHANISM. LEE FRANCISCO LOSI, Newark, N. J., assignor of one-fifth to Michael Mercolino, one-fifth to Pasquale Fuoco, one-fifth to Peter Paris, and one-fifth to Gennaro Lardone, Bayonne, N. J. Filed Apr. 21, 1926. Serial No. 103,509. 2 Claims. (Cl. 188—18.)



1. The combination in a vehicle of a pair of brake bodies for an axle thereof, a brake strap for each of said brake bodies, an operating handle in connection with the steering post of the vehicle, a pair of journal brackets fastened to one of the frame members of the vehicle, a roller having a helical circumferential groove journaled in one of said journal brackets, a roller larger in diameter than the first one journaled in the second journal bracket, a journal bracket fastened to said frame member, a guide sheave journaled to the latter journal bracket, a second journal bracket fastened to the other frame member of the vehicle, a guide sheave journaled to the latter journal bracket, a cable with one end extending from said operating handle and winding around the roller having the larger diameter, then leading to and winding around the other roller and then in connection with one of said brake straps, and a second cable with one end in connection with the second brake strap then engaging the sheave journaled to the journal bracket of the second frame member, said second cable then leading to the first guide sheave and connected to the first cable.

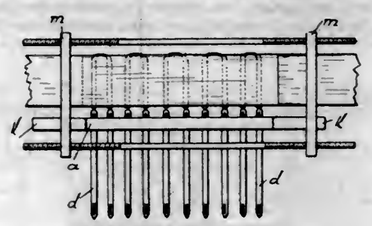
1,681,355. SHAVING STICK. HENRI LOWENFELD, Paris, France. Filed Mar. 4, 1927, Serial No. 172,799, and in Great Britain Mar. 4, 1926. 3 Claims. (Cl. 87—23.)



1. As a new article of manufacture a shaving soap stick having one end thereof adapted to be moved along and in contact with the face of the user, the said end consisting of deep recessed areas and solid partitions dividing and spacing said recessed areas, the total cross-sectional area of the solid portions of the face contacting end of the stick being relatively small as compared with the total area of the said end.

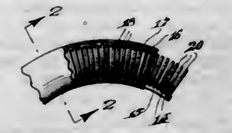
1,681,356. PROCESS AND APPARATUS FOR WEAVING TOGETHER THE ENDS OF SIMILARLY WOVEN BELTS AND BANDS. ARTHUR LUCKWEIL, Mannheim-Neckarau, Germany. Filed Feb. 25, 1927, Serial No. 170,966, and in Germany Feb. 27, 1926. 2 Claims. (Cl. 139—33.)

1. The process for weaving together the ends of tensioning members of the same weave consisting in using upon the entire connecting length of the ends to be interwoven with one another a series of bars running in the same direction as the wefts and spaced apart by the same distances as the wefts, into which the warp threads of the two ends are woven alternately exactly in accordance



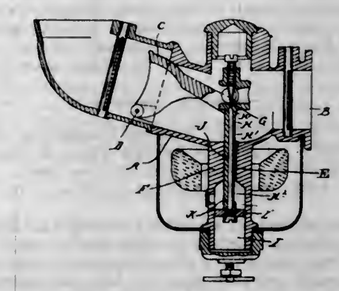
with the weave of the warp threads in the tensioning member, and then knotted to the associated warp threads of the other end which have become free, whereupon a weft thread is woven in, in place of the bars.

1,681,357. TIRE FILLER. MICHAEL J. LYONS, Philadelphia, Pa. Filed Apr. 28, 1927. Serial No. 187,149. 6 Claims. (Cl. 152—8.)



1. A filler for motor vehicle tires including an annular metallic band, tongues on the band, and resilient rings secured between the tongues.

1,681,358. CARBURETOR. ALBERTUS W. MCCALMONT, Pontiac, Mich., assignor, by mesne assignments, to Victore E. Nelson, Pontiac, Mich. Filed Apr. 10, 1922. Serial No. 550,975. 9 Claims. (Cl. 261—44.)

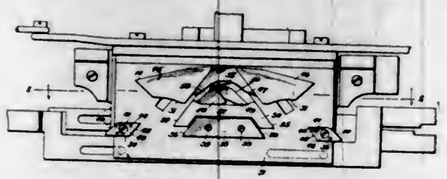


1. In a carburetor, the combination with an air shutter or valve, of a fuel valve actuated thereby and controlling a plurality of discharge passages for liquid fuel, one of said passages being automatically restricted at a predetermined point in the opening travel of the valve.

1,681,359. KNITTING-MACHINE MECHANISM. SAMUEL MISHCON, Brooklyn, N. Y. Filed Apr. 22, 1925. Serial No. 25,117. 3 Claims. (Cl. 66—75.)

3. In a knitting machine, a set of needles, a set of jacks cooperable with the needles, a reciprocating carriage, a set of jack-operating locks, consisting of a center lock and two end locks, said locks being fixedly mounted on and movable with said carriage, a set of needle operating locks carried by and movable with said carriage and in-

cluding a movable control lock associated with said center lock to render the same active for jack operation for the fancy stitching operation and to render the same inactive and itself active for the plain stitching operation, and jacquard mechanism for selectively raising the jacks at each half cycle of operation of said carriage, one of said end locks serving to raise the initially raised jacks to the



path of travel of said center lock which still further raises the jacks to raise their needles to the set of needle operating locks during each half cycle of operation of said carriage and the other of said end locks serving to lower the jacks to normal position when they are lowered to its path of travel in the lowering of their related needles by the needle operating locks during each half cycle of operation of said carriage.

1,681,360. PRESS FEED GUIDE. WILLIAM I. NYE, San Francisco, Calif. Filed Oct. 10, 1927. Serial No. 225,303. 7 Claims. (Cl. 101—415.)



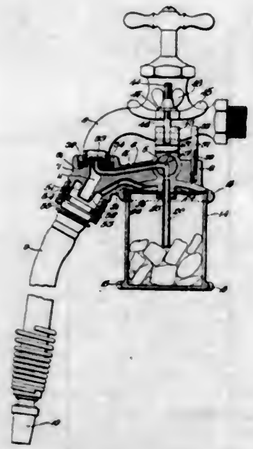
1. A press feed guide comprising a body having a stop arranged upon one end thereof; a spring leaf secured upon the body and arranged to be inserted through the platen sheet of a press; and means slidably mounted upon the body and leaf and movable to compress the leaf toward the body to detachably clamp the platen sheet against said body.

1,681,361. LAXATIVE. RICHARD PASTERNACK, Brooklyn, N. Y., assignor to Charles Pfizer & Company, Brooklyn, N. Y., a Corporation of New Jersey. Filed Oct. 30, 1925. Serial No. 65,884. 1 Claim. (Cl. 260—65.)

As a new product, an amorphous substance having laxative properties and melting at below 200° C., and which may be formed by treating phthalic anyhdride and phenol with the usual condensing agents to form phenolphthalein, extracting the reaction product with alkali, reprecipitating the alkaline solution, dissolving the precipitate by means of a suitable solvent, crystallizing out the phenolphthalein, and extracting the new product from the residue after crystallization by means of ether.

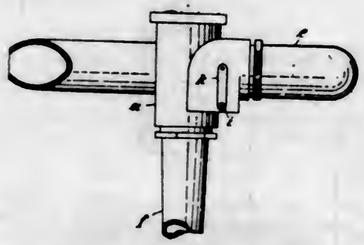
1,681,362. DISHWASHING APPARATUS. ALBERT PIKE, Winthrop, Mass., assignor, by direct and mesne assignments, to Dario Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 30, 1924. Serial No. 740,756. 17 Claims. (Cl. 299—84.)

1. In a device of the character described, the combination with a valve casing, of a soap container detachably carried thereby, the casing having integrally formed therewith a closure for the container and a laterally projecting portion provided with an always open, substantially straight main passage for the direct flow of a stream of water from a faucet to a hose with provision for direct engagement with the annular end of the faucet at the inlet end of said passage and for engagement with the hose at the outlet end of said passage, said laterally projecting portion and casing also having branch water passages



extending from adjacent the inlet end of the main passage to the closure and from the closure to adjacent the outlet end of the main passage, a valve in one of the branch passages for controlling the flow of water through the container, a handle without the casing for actuating the valve, and means independent of the end of the faucet for securing the valve casing to the faucet.

1,681,363. FIRE FOAM NOZZLE. BERNHARD REDDEMANN, Berlin-Lichterfelde, Germany, assignor to Pyrene-Minimax Corporation, a Corporation of Delaware. Filed May 12, 1926, Serial No. 108,600, and in Germany July 8, 1924. 2 Claims. (Cl. 299—111.)

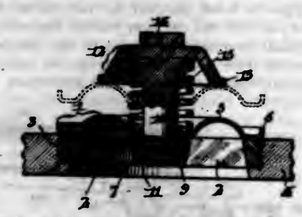


1. A nozzle for foam fire extinguishing apparatus having an inlet, an outlet substantially in line with the inlet, a second outlet having its axis disposed at an angle to the axis of the inlet and first mentioned outlet, a valve common to both outlets for selectively closing one or the other, and a hook-shaped nozzle associated with said second outlet for engaging the nozzle with a burning structure.

1,681,364. VALVE. MAURICE F. RICHARDSON, Berwyn, Pa. Filed Dec. 14, 1922. Serial No. 606,783. 6 Claims. (Cl. 251—144.)

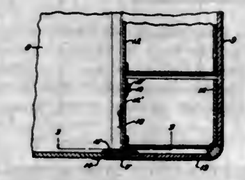
6. In a valve of the type described, the combination of a valve member embodying an annular arched-ridge intermediate concentric seating surfaces and a convex guard

member having a lateral lip, the high point of said arched-ridge and the median of the lateral lip coinciding with a center line through the valve port openings, said valve and



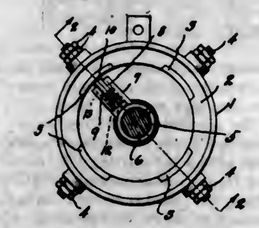
guard members jointly providing a substantially enclosed fluid-trapping cavity wholly within an area bounded by the center line aforesaid, for the purpose specified.

1,681,365. TRUNK CONSTRUCTION. JULIUS RITTER, Jr., Racine, Wis., assignor to Hartmann Trunk Company, Racine, Wis., a Corporation of Wisconsin. Filed Mar. 29, 1924. Serial No. 702,833. 3 Claims. (Cl. 702,833. 3 Claims. (Cl. 190—28.)



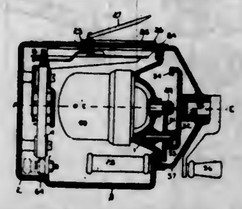
1. A trunk construction, comprising a wardrobe section and a drawer section having bottom portions and adjacent non-yielding edge portions, a non-yielding valance member mounted on the edge portion of one of the sections and overlapped by the adjacent edge portion of the other section, and a reinforcing strip mounted in the bottom portion of the trunk section provided with the valance member and spaced above the valance member to form in combination with the valance member and the front edge of the drawer section a groove, the opposite end portions of the reinforcing strip having parts extending downwardly in front of the lower edge of the said section and engaged by the edge of the other section.

1,681,366. TIMER. CHARLES F. ROGERS, Detroit, Mich. Filed Apr. 14, 1926. Serial No. 101,846. 1 Claim. (Cl. 200—26.)



A timer comprising a housing, an insulating ring in the housing, a series of contacts embedded in the insulating ring, a shaft extending into the housing, a sleeve secured to the said shaft, a tubular portion extending from one side of the sleeve and having a pair of diametrically opposite slots in the outer end thereof, a contact member comprising a cylindrical head fitting the inner diameter of the tubular member, a pair of lugs extending from opposite sides of the head and engaging in the slots of the tubular member, a stem secured to the head and extending into the tubular member, a spring about the stem tending to force the contact member ino engagement with the insulating ring and contacts carried thereby, the head of the contact member forming a seat for the said spring, the outer face of the cylindrical head and lugs being cut to arcuate form with the axis thereof extending in parallel relation to the axis of the insulating ring, the axis of the said arcuate face intersecting the longitudinal axis of the contact member.

1,681,367. ELECTRICAL TESTING INSTRUMENT. GEORGE BERKELEY ROLFE, London, England, assignor to Evershed & Vignoles, Limited, London, England. Filed Apr. 11, 1923, Serial No. 631,273, and in Great Britain May 17, 1922. 4 Claims. (Cl. 175—183.)



1. An electrical resistance testing instrument having in combination a magneto electric generator with a rotatable armature, a gear box mechanically connected to the field magnet system of said generator, a facing on said gear box, driving gear for said armature located in said gear box, a cover for said gear box, external means for operating the driving gear, an indicating instrument having a visible pointer and scale, electrical connections between said generator and said indicating instrument, a casing for said indicating instrument, a tubular element on said casing and having a facing for cooperation with the facing on the gear box so as to form an enclosure for the magneto electric generator, a window in said element for permitting the pointer and scale to be viewed and means for associating the testing instrument as a whole with the resistance to be tested.

1,681,368. PURIFYING PHENOLALDEHYDE RESINS. FRITZ SEEBACH, Erkner, near Berlin, Germany, assignor to Bakelite Gesellschaft m. b. H., Erkner, near Berlin, Germany. Filed Jan. 21, 1926, Serial No. 82,843, and in Germany Jan. 27, 1925. 6 Claims. (Cl. 200—4.)

1. A process for making alkali soluble phenolaldehyde resins free of acids which consists in dissolving the resins in alkalies, adding to the solutions obtained so-called hydrotropic salts which have the property of rendering difficulty soluble or insoluble substances soluble in water but do not affect the solubility of the phenol resin and precipitating the resins in the presence of the said salts with acids.

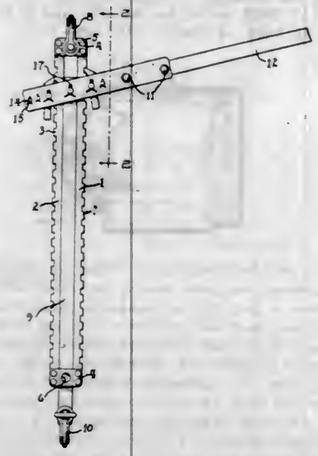
1,681,369. PURIFYING PHENOLALDEHYDE RESINS. FRITZ SEEBACH, Erkner, near Berlin, Germany, assignor to Bakelite Gesellschaft m. b. H., Erkner, near Berlin, Germany. Filed Jan. 21, 1926, Serial No. 82,844, and in Germany Jan. 27, 1925. 4 Claims. (Cl. 260—4.)

1. The process for purifying fusible, soluble phenolaldehyde resins which consists in treating the fusible, soluble raw phenolaldehyde resins with not more than equal parts of water and with sufficient alkali to form a colloidal suspension and then precipitating the said resins by adding salts which have the property of salting out resins.

1,681,370. PUSHING AND PULLING TOOL. ADOLPH M. SEEGER, Toledo, Ohio, assignor to The Seeger Device Company, Toledo, Ohio, a Corporation of Ohio. Filed May 7, 1927. Serial No. 189,503. 1 Claim. (Cl. 254—56.)

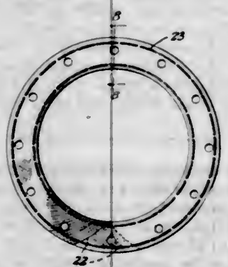
A pushing and pulling tool including a pair of spaced bars each having teeth on the outer side edges of the bars, means connecting each of the ends of the bars so as to

leave open space at each of the ends of the bars, an intermediate bar in the space between said pair of bars having attaching means on one end and having its opposite end formed to be selectively inserted in said open space at either end of the bars, a lever having pawls to engage the teeth on each of the said pair of bars, means to removably pivot the lever to the intermediate bar, and attaching means



removably engageable with either of said connecting means of the pair of bars whereby upon removal of the pivoting means and of said last named attaching means the intermediate bar may be inserted from either end of the pair of bars so as to adapt the tool for pulling when inserted in one end of the pair of bars and for pushing when inserted in the opposite end of said pair of bars.

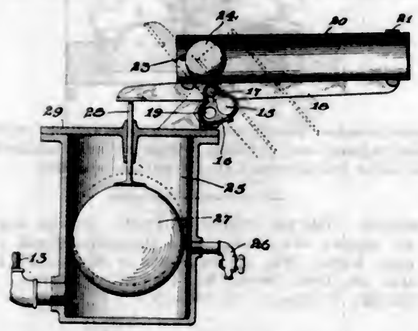
1,681,371. CLUTCH DISK. EDWARD SLADE, New York, N. Y. Filed May 9, 1923. Serial No. 637,622. 12 Claims. (Cl. 192—107.)



1. A clutch disk or lining comprising an annular fabric member, the weft strands of the fabric consisting of at least two strands of twisted asbestos fibre wrapped together, the warp strands consisting of wire interwoven with the weft strands in undulated form so as not to substantially penetrate the weft strands, the wrap and weft extending diagonally with respect to the radii of the annular member.

1,681,372. CUT-OFF VALVE. CLINTON F. SMITH, Boston, Mass. Filed Aug. 28, 1924. Serial No. 734,699. 2 Claims. (Cl. 137—68.)

1. A cutoff for fluid burners comprising, in combination, a feed pipe, a float chamber, an overflow pipe communicating with the float chamber, a buoyant body located in the float chamber, a stem carried by the buoyant body slidable through an opening in the chamber wall, a valve located in the feed pipe, a lever covered by the valve, a normally substantially horizontal run way rigidly connected with the lever, a weight mounted to travel in the run way at one limit of its movement tending to hold the valve open and at the opposite limit tending to close the valve, and means



carried by the lever interposed disconnectedly in the path of movement of the stem converting said stem movement into a movement of the run way to initiate the closing movement of the traveling weight, the movement of which tends to complete the closing of the valve.

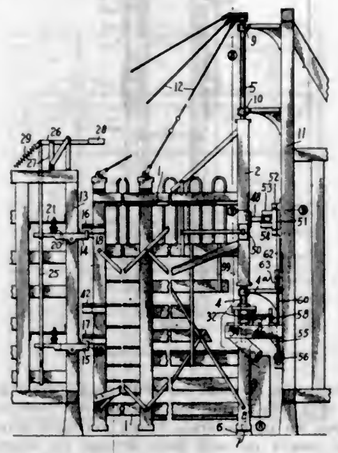
1,681,373. COMBINATION STOP ACTION FOR ORGANS. HARRY M. SMITH, Cranford, N. J., assignor to The Aeolian Company, a Corporation of Connecticut. Filed Aug. 19, 1926. Serial No. 130,206. 7 Claims. (Cl. 84—345.)

5. The combination of claim 1 further characterized by there being a plurality of the aforesaid rows of jacks; each row having its own jack actuator bar and its own contact bar including the respective operating means therefor and its own combination piston; also its own switch means operable by the set piston for shifting the control by the combination piston to operate at will either the jack actuator bar or the contact bar; said individual switch means being combined together so as to be operated by one and the same set-piston.

1,681,374. GATE. JOHN W. SMITH, Dayton, Ohio. Filed Sept. 25, 1922. Serial No. 590,346. 31 Claims. (Cl. 39—31.)

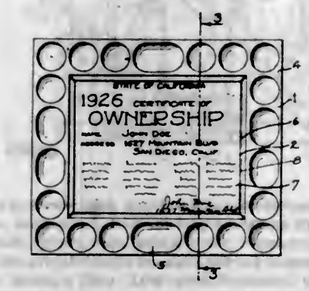
15. The combination with a gate comprising a standard which support said gate as a whole and which is movable about a vertical axis, and a latch to hold said gate normally against movement about said axis, said standard being mounted for vertical movement to lift said gate out of engagement with said latch, of a lifting device to impart vertical movement to said standard and said gate, a gate swinging device movable transversely to said standard and having lugs projecting therefrom toward said standard and spaced apart, and a projection carried by said standard

and arranged normally below the horizontal plane of said lugs and adapted to be moved by the vertical movement of said standard into the space between said lugs, whereby the movement of said lugs in either direction will impart swinging movement to said gate, projections extending laterally from the opposite sides of said standard, and other lugs carried by said swinging device and arranged respectively to engage the last mentioned projections on said standard when said gate is in one or the other of its open positions.



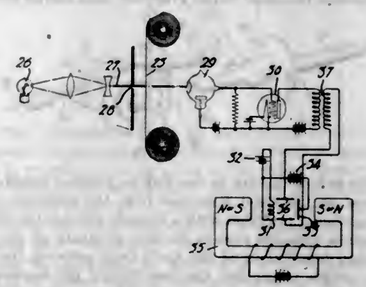
30. The combination with a swinging gate, and a latch to hold said gate normally against movement, said gate being mounted for vertical movement to disengage it from said latch, of a supporting structure mounted adjacent to the axis about which said gate swings, two actuating members mounted on said supporting structures for bodily movement transversely thereto, means actuated by the respective members for lifting and swinging said gate, lever mechanism mounted on said supporting structure and operatively connected with said actuating members to cause the movement of one of said members to be transmitted to the other of said members, and and a vehicle actuated device connected with one of said actuating members.

1,681,375. CARD DISPLAY AND HOLDING MEANS. ALBERT M. SHOOK, San Diego, Calif. Filed June 26, 1926. Serial No. 118,649. 9 Claims. (Cl. 40—10.)



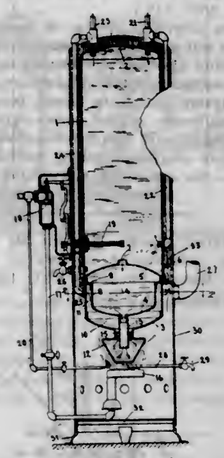
1. A means of the class described, comprising a resilient, rectangular frame portion having a rectangular central recess and an integral back portion, said frame portion having formed in its face side a multiplicity of resilient vacuum pockets, said pockets extending into said frame portion and extending in spaced relation around the same.

1,681,376. SOUND RECORDING AND REPRODUCTION. HOMER C. SNOOK, South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 22, 1922. Serial No. 589,813. 15 Claims. (Cl. 179—100.1.)



7. An arrangement for producing sound waves from electrical waves which comprises means for establishing an ionized field in a body of gas, means for superimposing thereon an electromagnetic field, and means for superimposing upon the combined fields an electrostatic field varying in accordance with audible frequencies.

1,681,377. STORAGE WATER HEATER. ELMER S. STACK, Somerville, Mass. Filed Oct. 20, 1921. Serial No. 509,087. 8 Claims. (Cl. 122—18.)



1. A water heater comprising a tank having a bottom head, a heating chamber depending from said bottom head in communication with the space enclosed by such head, and an inner partition crossing the interior of the tank above such head, said partition being constructed and arranged with a portion of its structure at a relatively high level, and another portion at a relatively low level forming a pocket for collection of sediment, and having an opening in said portion at the relatively high level for passage of water into the space between itself and the bottom head, and a tap leading from said pocket.

1,681,378. INSULATOR. ALVIN G. STEINMAYER, Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 29, 1924. Serial No. 734,894. 1 Claim. (Cl. 173—321.)

An appliance of the character described, comprising an attaching member, a hook end thereon, a pair of links having registering apertures in their inner ends adapted to be

engaged over the attaching member hook end, the outer ends of the links being struck outwardly and then parallel to provide a yoke frame, an insulating spool adapted to be secured between the opposite ends of the links to receive a strain in a direction away from the attaching member, the outer ends of said links having apertures therein, a securing pin passed through the apertures of the links and through the spool, a head on one end of said pin preventing its movement through the spool in one direction, and means securing

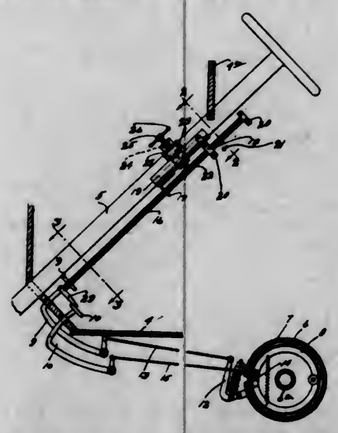


the other end of the pin to one link to prevent longitudinal movement of the spool from the link, the aperture of the other link being provided with a keyhole slot having its narrow portion disposed toward the line of strain on the spool to prevent detachment of the spool from between the links while a strain is applied, the link having the keyhole slot being readily detachable from the pin upon its disengagement from the attaching member and its movement in a longitudinal plane in the line of strain.

1,681,379. METHOD OF COLLECTING INORGANIC POTASSIUM SALT, BETAIN SALT, AND GLUTAMIC ACID FROM THE WASTE LIQUOR PRODUCED IN DISTILLING ALCOHOL FROM FERMENTED BEET MOLASSES. YOSHITARO TAKAYAMA, Koishikawa Ku, Tokyo, Japan, assignor to Saburosuke Suzuki, Tokyo, Japan. Filed Jan. 12, 1927. Serial No. 160,783. 4 Claims. (Cl. 260—112.)

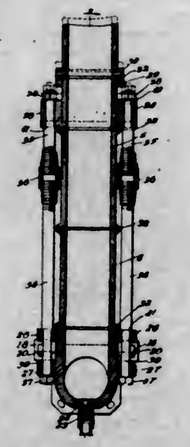
1. The herein described process of recovering glutamic acid, potassium salt and betain from the waste liquor produced in distilling alcohol from fermented beet molasses, consisting in first removing yeast and uncrystallizable substances by dialyzing the waste liquor, then collecting potassium salt and betain salt by concentrating the dialyzed liquor and adding mineral acid thereto, then converting the glutimic acid into glutamic acid by adding excess of the mineral acid to the remaining mother liquor and heating the same.

1,681,380. PEDAL LOCK. JOSEPH M. TAMAN, Minneapolis, Minn., assignor of one-half to Walter Taman, Minneapolis, Minn. Filed Mar. 31, 1927. Serial No. 179,870. 6 Claims. (Cl. 74—81.)



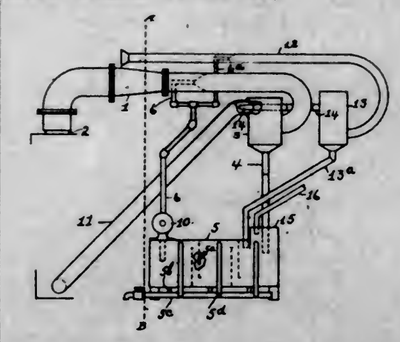
5. The combination with the brake and clutch pedals of an automobile, of a lock rod mounted for sliding and oscillatory movements, said rod at its lower end having a radially projecting foot arranged to be turned into alignment with any one of several of said pedals and to be quickly moved axially to lock any depressed pedal.

1,681,381. CONVEYER. EDGAR B. TOLMAN, Jr., Chicago, Ill. Filed July 5, 1924. Serial No. 724,473. 2 Claims. (Cl. 137—75.)



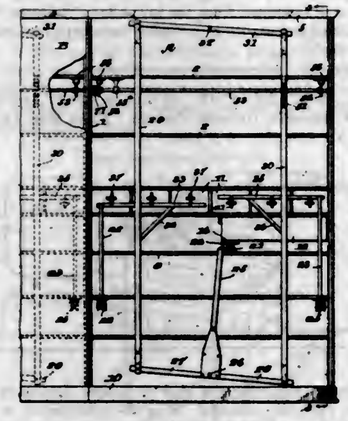
1. Connecting fittings for conveying system pipes consisting of a pipe fitting for the adjacent ends of each of two pipes, an intermediate fitting arranged between said fittings, means on said pipe fittings for aligning said intermediate fitting, each pipe fitting provided with rods non-rotatably carried thereby and extending toward the other fitting, said rods provided with threads at their adjacent ends, extending in opposite directions, and connecting members in threaded engagement with said adjacent ends and connecting the said rods for forcibly separating or contracting the fittings to release or secure the said intermediate fittings.

1,681,382. ELASTIC-FLUID CLEANER. JOHN L. TORKELSON, Burke, Idaho. Filed Oct. 8, 1927. Serial No. 224,914. 3 Claims. (Cl. 110—49.)



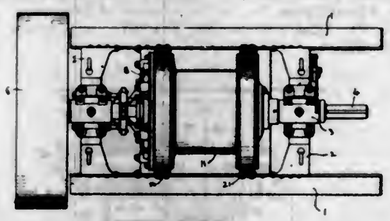
1. The combination of an elastic fluid washing chamber provided with an intake port for foul elastic fluid; a device within said chamber for washing said elastic fluid, a reclaiming chamber for the cleansed elastic fluid, said reclaiming chamber communicating with said washing chamber and being provided with a waste port for discharging the cleansing element and for discharging the substances washed from said elastic fluid; a conduit connected to said reclaiming chamber for conducting the cleansed elastic fluid therefrom; a free air intake pipe; an air washing device in said air pipe; a reclaiming chamber for the cleansed free air, said free air reclaiming chamber being provided with a waste port for discharging the air cleansing element and for discharging the impurities washed from such air, and a pipe communicating with said air reclaiming chamber and with said conduit for conducting air to said conduit.

1,681,383. MERCHANDISING CABINET. ROBERT C. WALSH, St. Louis, Mo. Filed Apr. 19, 1923. Serial No. 633,149. 6 Claims. (Cl. 312—193.)



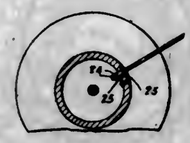
1. The combination with a cabinet having a sliding drawer, and formed with storage spaces both above and below said drawer, of doors closing said storage spaces, locking mechanism for said doors comprising pairs of levers defining a quadrilateral pivoted at the rear of the cabinet, and an operative connection between said drawer and quadrilateral and between said doors and quadrilateral, whereby the movement of said drawer serves to oscillate said quadrilateral and thus actuate the door locking mechanism.

1,681,384. CLUTCH AND CONTROL MECHANISM. HARRY H. WATERS, Clinton, Iowa, assignor to Climax Engineering Company, a Corporation of Delaware. Filed Apr. 25, 1927. Serial No. 186,324. 13 Claims. (Cl. 192—4.)



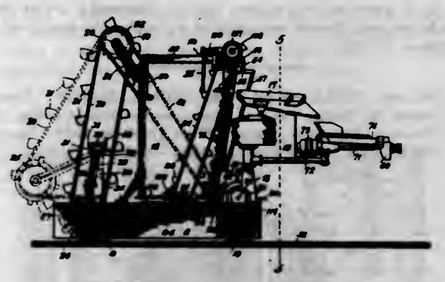
12. In a reversing transmission, a live shaft, a drum thereon, a forward drive clutch, a neutral brake, a reversing brake, a second shaft, levers pivoted on said second shaft, the ends of each of said brakes being secured to one of said levers, a pair of followers connected to said clutch, a cam shaft, cams fixed thereon engaging said levers and followers for controlling and actuating said transmission, and a lever operatively connected to said shaft for operating the same.

1,681,385. TRANSMISSION OF POWER TO VEHICLES. ARCH U. AVERA, Birmingham, Ala. Filed July 13, 1922. Serial No. 574,724. 3 Claims. (Cl. 191—12.)



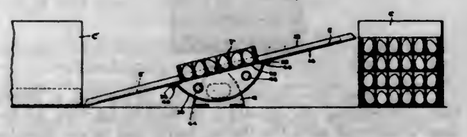
1. The combination with an electrically driven vehicle, of a cable for feeding power thereto, a drum on which said cable is reeled to take up slack in the cable, circuit connections terminating in contacts carried by said drum and a contact plug terminal for said cable arranged to be moved radially of the drum into and out of engagement with said contacts and frictionally held in engagement therewith whereby the plug may be removed by a radial pull thereon but will be locked against disengagement by the tangential pull exerted thereon when the cable is reeled.

1,681,386. MOLDING MACHINE. ELMER O. BEARDSLEY, Chicago, and WALTER F. PIPER, Oak Park, Ill., assignors to The Beardsley & Piper Company, Chicago, Ill., a Corporation of Illinois. Filed July 9, 1921, Serial No. 483,385. Renewed Jan. 12, 1928. 38 Claims. (Cl. 22—36.)



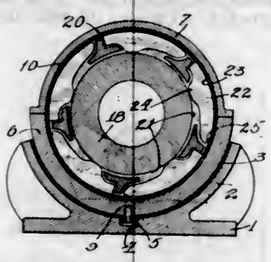
1. In a machine for making molds for founding, the combination of a movable carriage, a machine for filling flasks mounted on the carriage, a sand-reservoir on the carriage adapted to retain sufficient sand for a run of flasks, mechanism for feeding sand from the reservoir to the filling machine and driving mechanism for said sand feeding mechanism.

1,681,387. EGG-CANDLING DEVICE. SAMUEL G. BENZING, Grand Rapids, Minn. Filed Apr. 4, 1927. Serial No. 180,743. 6 Claims. (Cl. 99—6.)



1. An egg candling device comprising a support, a tilting slideway intermediately pivoted upon said support, said slideway having an opening intermediate its ends, a transparent plate set in said opening, and a source of light adjacent said plate.

1,681,388. SELF OILING AND ALIGNING BEARING. EARL ELWIN BERRY, Beloit, Wis., assignor to Beloit Iron Works, a Corporation of Wisconsin. Filed Apr. 10, 1924. Serial No. 705,428. 9 Claims. (Cl. 308—240.)



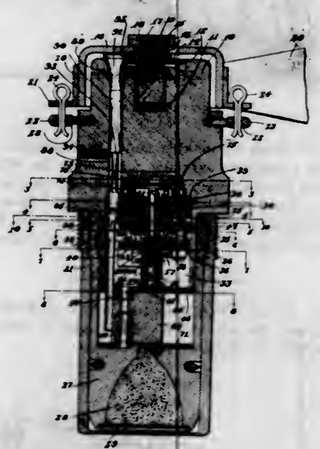
3. In a bearing, the combination with a journal, a cage secured thereon, and a plurality of pads freely movable in said cage formed to have a rocking contact with the journal.

1,681,389. GOLF PAD. BELDEN H. BLAKE, Canton, Ohio. Filed June 25, 1927. Serial No. 201,448. 4 Claims. (Cl. 273—81.)



2. A glove having a loop located diagonally across the palm portion thereof and adapted to receive the handle of a club or the like.

1,681,390. TIME FUSE FOR AERIAL BOMBS. FREDERICK W. BOLD, Chelsea, Mass., assignor to Charles H. Pearson, Brookline, Mass. Filed June 28, 1923. Serial No. 648,378. 5 Claims. (Cl. 102—36.)



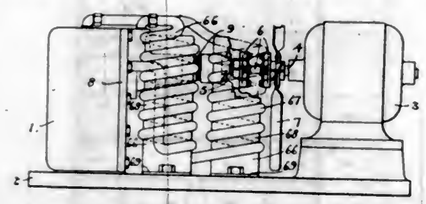
1. In a fuse, the combination of a firing pin, a timing train controlling the operation thereof, a starting mechanism associated with the timing train, and means movable longitudinally of the fuse and operable automatically and only during the flight of the fuse for controlling the starting of the timing train.

1,681,391. GOLF TEE OR THE LIKE. HARRY C. BRATT, Dayton, Ohio. Filed June 29, 1927. Serial No. 202,207. 1 Claim. (Cl. 273—33.)



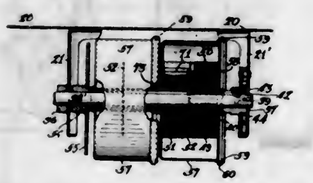
A golf tee formed integrally of wood including a head having an annular medical portion, opposite annular faces inclined upward and downward respectively and inward from said portion, a concavical seat formed in the upper face for poising a golf ball, and a stem for setting the tee in the ground extended from the lower face, the stem flaring upwardly and outwardly in a concavical curve and merging into the head.

1,681,392. ROTARY PUMP. WILLIAM HENRY DAVENPORT BROUSE, Toronto, Ontario, Canada. Filed Mar. 14, 1927. Serial No. 175,378. 6 Claims. (Cl. 230—147.)



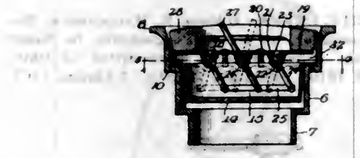
1. A pump, comprising a pair of blocks having cylinder chambers therein arranged in axial alignment, a plate arranged between said blocks having an opening in alignment with the cylinders and an opening therebelow, a passage in each of said blocks extending radially from each of said cylinders, chambers in each of said blocks connecting with said passages and connected by the lower opening in said plate, oscillating valves interposed in said passages, and separated by said plate, a shaft having a pair of eccentrics thereon spaced to operate each side of said plate within said cylinder chambers, and a rotor member mounted on each of said eccentrics and each having a vane rigidly extending into the adjacent passage and operatively engaging the valve therein and adapted to oscillate the same to control the passage of fluid to and from said cylinders and the lower chambers connected therewith.

1,681,393. SPRING MOTOR. ISAAC F. BURTON, deceased, Philadelphia, Pa., by Manie E. Burton, executrix, Philadelphia, Pa., assignor to Visualatone Company of America, Philadelphia, Pa., a Corporation of Delaware. Filed May 21, 1924. Serial No. 714,797. 22 Claims. (Cl. 185—37.)



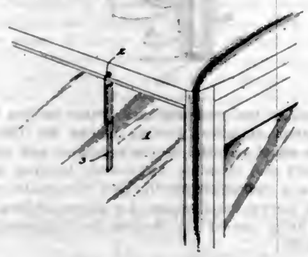
1. In a spring motor, a supporting shaft, a pair of sleeves thereon, a pair of oppositely spiraled springs about the sleeves, the one sleeve engaging one of the springs to wind it and the other engaged by the second spring to transmit the energy thereof, a floating arcuate plate extending transversely to the outer ends of both springs and hooks on the outer ends of the springs engaging opposite edges of opposite ends of the plate to transmit the energy of the first spring to the plate and from the plate to the second spring.

1,681,394. FLOOR-DRAIN VALVE. FRANK W. CARLSON, Chicago, Ill. Filed July 25, 1927. Serial No. 208,239. 11 Claims. (Cl. 277—19.)



1. A floor drain valve comprising a casing, an inner plate secured to the casing and having a plurality of parallel seats therein, said seats having openings through the plate, a plurality of cores arranged in said seats and having passages to register with the openings in the plate, and means for operating said cores.

1,681,395. WINDSHIELD WIPER. VICTOR H. CHRISTEN, Detroit, Mich. Filed July 14, 1926. Serial No. 122,314. 2 Claims. (Cl. 15—255.)



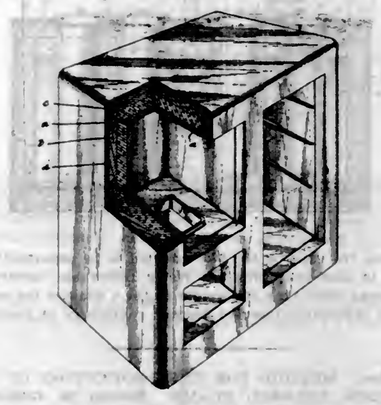
1. In a wind-shield wiper, a wiper blade comprising a strip of material impregnated with a substance for treating the surface of the glass to prevent the formation of rain drops thereon and a strip of flexible material positioned along side the said impregnated material for wiping the glass, the impregnated material being more compressible than the said flexible material and the working edge of the said impregnated material projecting beyond the working edge of the flexible strip whereby the same is compressed in use so that both strips contact with the surface of the glass.

1,681,396. RAZOR. PAUL COOK, Linden, Md. Filed Sept. 10, 1924. Serial No. 736,866. 9 Claims. (Cl. 30—12.)



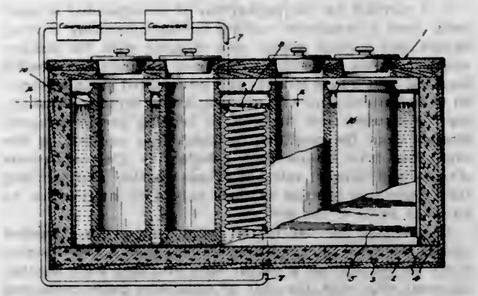
1. In a razor of the character described in combination, an abrasive roller, a movably mounted blade and means operable by advancing the roller in opposite directions in rolling contact with a superficiary for actuating the blade to engage opposite sides of the cutting edge with the roller for sharpening, and means for holding the blade against movement for shaving.

1,681,397. REFRIGERATOR OR CABINET. LLOYD G. COPEMAN, Flint, Mich., assignor to Copeman Laboratories Company, Flint, Mich., a Corporation of Michigan. Filed Mar. 19, 1926. Serial No. 95,898. 16 Claims. (Cl. 72—1.)



1. A refrigerator or cabinet, having in combination a box structure, a binder material spread over the exterior of the box structure, a web of flexible material spread over the binder, and a frangible material carried on the outside of the web.

1,681,398. REFRIGERATOR CABINET AND METHOD OF CONTROLLING THE TEMPERATURE THEREIN. LLOYD G. COPEMAN, Flint, Mich. Filed Nov. 18, 1926. Serial No. 149,101. 7 Claims. (Cl. 62—95.)

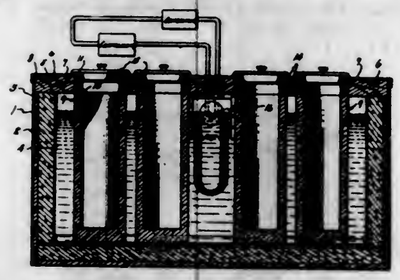


6. An ice-cream cabinet or similar structure, comprising in combination a tank adapted to contain a non-freezing solution, a top for said tank containing a plurality of apertures, a refrigerating coil positioned within said tank for cooling the solution, and imperforate storage container units for receiving ice cream cans adapted to be inserted through said apertures, said containing units being positioned by but held in said non-freezing solution independently of said top.

1,681,399. REFRIGERATOR CABINET AND METHOD OF CONTROLLING AND OPERATING THE SAME. LLOYD G. COPEMAN, Flint, Mich., assignor to Copeman Laboratories Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 6, 1927. Serial No. 159,266. 7 Claims. (Cl. 62—95.)

5. A refrigerating cabinet of the type designed to receive ice cream cans or similar articles, comprising in combina-

tion a tank adapted to contain a non-freezing solution, a top for said tank containing a plurality of apertures, refrigerating means positioned within the tank for cooling the solution, and independent storage container units for



receiving the cans or the like adapted to be separately inserted in said apertures and freely removable therefrom, and means other than the weight of the container for securing the separately inserted storage containers in position.

1,681,400. METHOD FOR THE PRODUCTION OF EXPANDED TRUSSED BEAMS. HARVEY M. GERSMAN, Chicago, Ill. Filed Oct. 9, 1924. Serial No. 742,712. 13 Claims. (Cl. 29—155.)



1. A method for the production of an expanded trussed beam from a structural section having oppositely located flanges and a solid planar web integral with the flanges which consists in slitting the web to provide parallel diagonal continuous strands and interrupted strands parallel to and alternating with the continuous strands, in effecting the expansion of the web, in bending the interrupted strands from the positions in which they are left by the expansion into intersecting relation to the continuous strands and parallel relation to one another and securing the interrupted strands at their points of interruption to adjacent parts of the web.

10. A blank for use in the production of an expanded trussed load bearing member consisting of a rolled structural section having a planar web provided with parallel diagonal slits with the slits of successive pairs connected by longitudinal slits, thereby to provide continuous strands and interrupted strands alternating with the continuous strands.

1,681,401. VANITY CASE. WALTER A. GOERTZ, East Orange, N. J., assignor to August Goertz & Co., Inc., Newark, N. J., a Corporation of New Jersey. Filed Mar. 3, 1928. Serial No. 258,737. 6 Claims. (Cl. 132—83.)



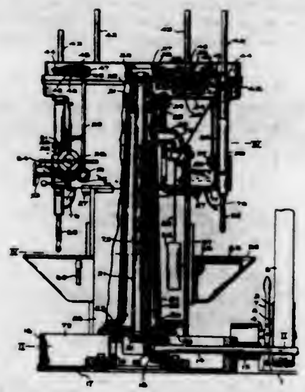
1. In a vanity case having cooperating sections, means for assembling and retaining an inserted member in connection with a section thereof, comprising an in-curled peripheral rim on said section, and an inserted member retaining frame arranged within the internal limits of said rim, said retaining frame having outwardly extending lugs spaced about its outer periphery, said lugs being sprung beneath said in-curled rim of said section.

1,681,402. DRILL PRESS. GEORGE E. HALLENBECK, Toledo, Ohio, assignor, by mesne assignments, to Baker Brothers, Inc., Toledo, Ohio, a Corporation of Ohio. Filed Dec. 15, 1919. Serial No. 344,818. 5 Claims. (Cl. 77—24.)



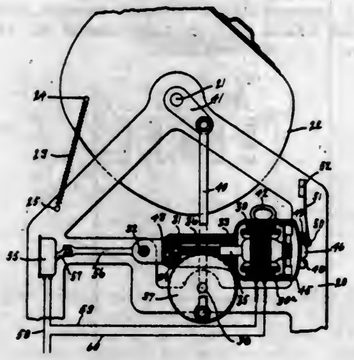
4. A machine tool comprising a frame having a pair of parallel driven spindles, driving means for the spindles including a shaft parallel to the spindles, and spur gears on said shaft and spindles, non-rotary bearing sleeves for the spindles, a feed shaft for the pair of spindles connected to the said sleeves, and means for disconnecting the said feed shaft from one of the sleeves for independently setting a spindle.

1,681,403. POWER-ACTUATED TOOL. GEORGE E. HALLENBECK, Toledo, Ohio, assignor, by mesne assignments, to Baker Brothers, Inc., Toledo, Ohio, a Corporation of Ohio. Filed Jan. 20, 1923. Serial No. 614,002. 3 Claims. (Cl. 77—23.)



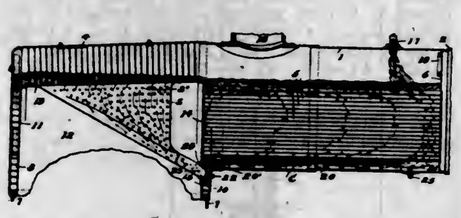
1. A tool carrier, means controlling the rotation of said carrier, a plurality of spindles carried thereby, spindle rotating means, independent feed means for each spindle actuable from said driving means, individually controlled trip means for each spindle feed means, and automatic spindle recover means for each spindle as tripped.

1,681,404. DOMESTIC APPLIANCE. FREDERICK J. HARDMAN, Dayton, Ohio, assignor to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Oct. 23, 1923. Serial No. 670,354. 3 Claims. (Cl. 74—107.)



1. Power operated mechanism comprising, in combination, an oscillatable member, an electric motor, disconnectible gearing for transmitting motion from the motor to the member, a motor switch, a pivoted frame carrying the motor and one of the gears and connected with the switch for operating the latter in response to movement of the frame, means for maintaining the frame in its operating and non-operating positions and means released by movement of the frame to its non-operating position for moving the oscillatable member to a desired position.

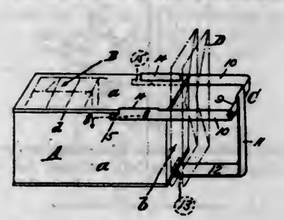
1,681,405. LOCOMOTIVE BOILER. CHARLES GILBERT HAWLEY, Chicago, Ill., assignor to Locomotive Firebox Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 25, 1920. Serial No. 368,691. 14 Claims. (Cl. 122—68.)



1. The herein described locomotive boiler having a fire box formed with side water legs and a throat, a water-steaming and circulating element arranged in the fire-box and having an inlet end connected to the throat, in combination with parts that divide a portion of the fire-box throat from those portions of the throat through which the side water legs communicate with the body of the boiler, said parts being spaced from but in communication with the inlet end of said water steaming and circulating element.

1,681,406. DISPLAY AND SERVICE RECEPTACLE FOR MERCHANDISE, SAMPLES, AND ADVERTISING MATTER RELATING TO SAME. JOSEPH HENRY HENGEHOLD, Covington, Ky. Filed Oct. 18, 1926. Serial No. 142,438. 1 Claim. (Cl. 211—86.)

The combination with a display or sales receptacle having a raised bottom with a downwardly-extended edge, of an auxiliary extensible skeleton rack comprising a horizontal transverse bar-member having forwardly-projecting embracing-arms adapted to outwardly and slidably engage the upper side-edges of said receptacle, a vertical bar-member extending downwardly from the middle of the said horizontal transverse bar-member, and a forwardly-projecting horizontal bar-member whose upper end is secured to the middle of said horizontal transverse



bar-member and whose fore end is upwardly or angularly turned into hook-form for stop engagement with the said downwardly-extending lower edge of the raised bottom of said receptacle, substantially as shown and described.

1,681,407. FISHHOOK. JOHN E. HOWELL, Dallas, Tex. Filed July 22, 1927. Serial No. 207,669. 1 Claim. (Cl. 43—34.)

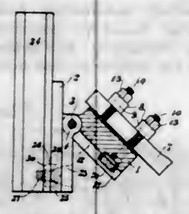


A device of the character described comprising in combination a rigid shank having an impaling fish hook unit at one end thereof, a hitch formed on said shank at a substantial distance from the impaling unit, a pilot hook provided with an eye to reciprocably receive said shank intermediate said hitch and the impaling unit, said pilot hook having its shank bent to form an open loop adjacent said eye and removable resilient means reacting between said pilot hook and said shank for normally holding said pilot hook away from said impaling unit, said loop permitting intentional withdrawal of but prevent accidental separation of said resilient means therefrom.

1,681,408. TOOL HOLDER FOR METAL PLANERS. CHARLES GEORGE JOHANNESMEYER, Glendale, and ALFRED R. MCCANN, Hamilton, Ohio, assignors to The Liberty Machine Tool Company, Hamilton, Ohio, a Corporation of Ohio. Filed Nov. 17, 1923. Serial No. 675,409. 3 Claims. (Cl. 90—54.)

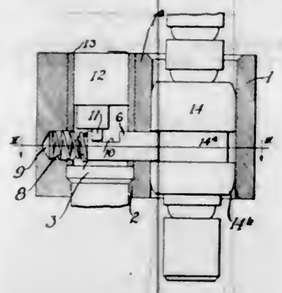
1. In a planer, the combination of a tool slide having a recess therein, a pivot mounted in said tool slide concentric with said recess, a clapper box having a recess and a socket therein and connected to said pivot, a tool holder and means adapted to stabilize said tool holder comprising a channel on the inner surface thereof adapted

to form a firm joint with said clapper box, an interlocking cone fixed to said tool holder and adapted to snugly fit in said socket, said pivot comprising a longitudinal pin



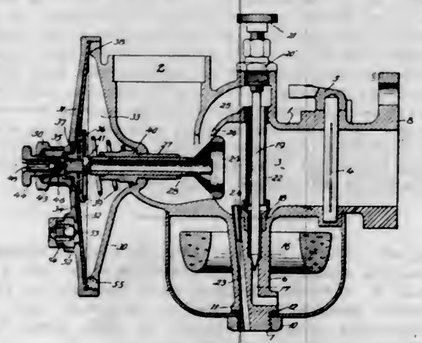
having a collar there-around and combinedly cooperating with said recesses, substantially as and for the purposes set forth.

1,681,409. SPARE-TIRE LOCK. COLVIN L. JOHNSON, St. Louis, Mo., assignor to Johnson Automobile Lock Co., St. Louis, Mo., a Corporation of Missouri. Filed Jan. 31, 1927. Serial No. 164,890. 12 Claims. (Cl. 70—90.)



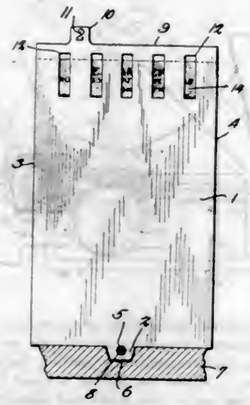
1. In a spare tire lock, a casing having two passages therethrough, an armored cable anchored at one end in one of said passages, a bolt slidably mounted in the casing extending across said last mentioned passage with its end normally projecting into the other passage, a lock cylinder in the passage in which the end of the cable is anchored for withdrawing the end of the bolt from said other passage, and a grooved spool secured to the cable and adapted to be locked in said other passage by said bolt.

1,681,410. CARBURETOR. GEORGE KINGSTON, Kokomo, Ind., assignor to Kingston Products Corporation, Kokomo, Ind., a Corporation of Indiana. Filed Feb. 1, 1923. Serial No. 616,331. 7 Claims. (Cl. 261—64.)



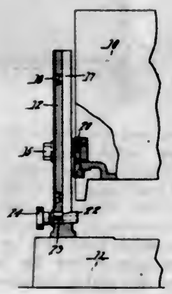
1. In a carburetor, a valve for controlling the main air passage to the mixing chamber embodying a slidably mounted sleeve supporting the valve, a casing supporting said sleeve, a diaphragm secured to the sleeve and closing the casing, resilient means tending to hold the diaphragm outwardly and the valve in closed position, and a passage through the sleeve affording communication between the mixing chamber and the inner side of the diaphragm whereby a differential sub-atmospheric or back-fire pressure may be applied thereto.

1,681,411. METAL CARD. SOLOMON KLEPFER, Indianapolis, Ind. Filed Sept. 22, 1926. Serial No. 137,055. 1 Claim. (Cl. 129—16.7.)



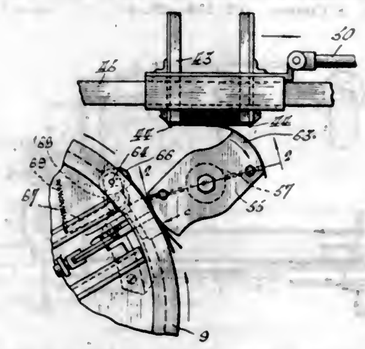
A device of the class described embodying a division plate adapted to be used between thin slips in a filing and indexing mechanism, the plate being stiff enough so that it can be tilted without bending, the plate being provided near to its upper edge with a plurality of transversely spaced openings which are elongated perpendicularly to said edge sufficiently to admit air on the imperforate portion of the slip next adjoining the plate, thereby to prevent the slips from being carried along with the plate when the plate is tilted as aforesaid.

1,681,412. ADJUSTABLE MACHINE-TABLE SUPPORT. GEORGE H. KNIGHT, Torrington, Conn., assignor to The Hendey Machine Company, Torrington, Conn., a Corporation of Connecticut. Filed May 18, 1927. Serial No. 192,454. 4 Claims. (Cl. 90—58.)



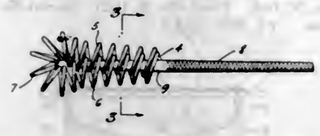
1. The combination with a table adjustable for height and having a sidewise motion, of an extended portion of the base of the machine having a horizontal top surface, a table support on said horizontal surface having a slot, a rack on the table, a rack in the slot in the table support the teeth of which match and engage the teeth of the first named rack, means for adjusting the second rack vertically, and means for positively holding the bottom of the last named rack to give a non-slipping support to the table.

1,681,413. SHEET-FEEDING MECHANISM. KARL FRITTIOF KRONQVIST, Helsingfors, Finland. Original application filed Apr. 10, 1925, Serial No. 22,139. Divided and this application filed June 3, 1926. Serial No. 113,546. 3 Claims. (Cl. 271—29.)



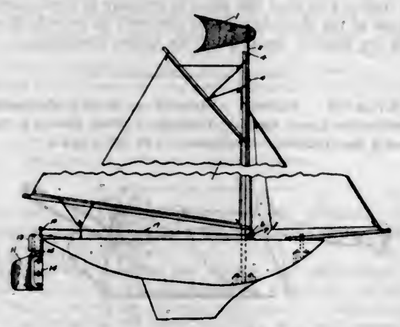
1. A sheet feeding mechanism comprising a sheet holding device, a rotary intermediate wheel, and a continuously revolving transporting device disposed between the sheet holding mechanism and the intermediate wheel, adapted to suctionally engage the lower sheet in the holder and to feed said sheet to the intermediate wheel and simultaneously engage the next sheet from the sheet holding device.

1,681,414. DETACHABLE HANDLE. BUNTARO KUMAGAI, Los Angeles, Calif. Filed May 12, 1926. Serial No. 108,535. 2 Claims. (Cl. 279—102.)



1. A handle comprising a resilient wire of helical convolutions looped along its major axis so as to provide sets of convolutions arranged side by side, the ends of said wire being secured together to hold the end convolutions interlaced, whereby said sets may be moved toward each other with other of the convolutions overlapping and interlaced.

1,681,415. WIND-CONTROLLED STEERING GEAR. HAROLD A. LEE, Suva, Fiji Islands. Filed June 29, 1925. Serial No. 40,316. 1 Claim. (Cl. 114—163.)



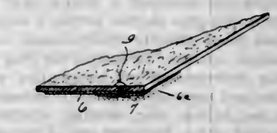
A device of the type described comprising a main rudder pivoted to a boat, a control rudder pivoted to the main rudder, means for operating the control rudder, said means including a lever having a circular row of openings disposed concentrically about the pivot point of the lever, said control rudder being operatively connected to an arm, said arm being connectible by means of a fastening member to any one of the desired openings in said lever.

1,681,416. PADLOCK. RICHARD LICHTENBERGER, Neviges, near Velbert, Germany. Filed Dec. 22, 1926, Serial No. 156,370, and in Germany July 12, 1926. 3 Claims. (Cl. 70—108.)



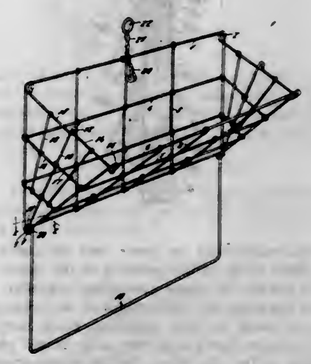
1. In a padlock, in combination, a two-armed lock-case having the inner and outer walls of one of its arms perforated to receive the locking-bolt; a straight locking-bolt adapted to operate through said perforated arm and to enter into an opening in the inner wall of the second arm of the lock-case; a lever pivotally mounted and adapted to move the locking-bolt; a plate pivotally connected with the said lever and having a hook adapted to engage a fixed pin, said plate being arranged to be actuated by a key so as to disengage the hook; and a spring for retaining the book in the locked position of the bolt.

1,681,417. RUG FASTENER. RUDOLPH J. LINDHORST, Cleveland, Ohio. Filed Apr. 11, 1927. Serial No. 182,978. 2 Claims. (Cl. 154—49.)



1. A rug fastener comprising a piece of adhesive tape, and a folded cover thereon capable of being unfolded to expose the face of the tape.

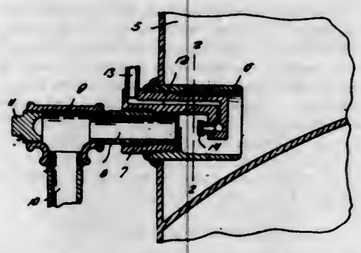
1,681,418. FOLDING RACK OR HOLDER. ANDREW J. LIVESAY, White Sulphur Springs, W. Va. Filed Jan. 9, 1928. Serial No. 245,568. 2 Claims. (Cl. 211—119.)



1. A device of the class described comprising a rear frame, a front frame hingedly connected at its lower end with the lower end of the rear frame and a pair of end

pieces hingedly connected with the ends of the two frames, each end piece being composed of two sections hingedly connected together, a yoke-shaped member having the upper ends of its limbs hingedly connected with the lower end of the rear frame, a stem connected with the center of the top piece of the rear frame and having an eye at its upper end for enabling the device to be hung on a projection extending from a wall and a latch hinged to the top piece of the rear frame for holding the parts in folded position.

1,681,419. RAILWAY-TRACK SANDER. PETER LOFY, deceased, Springfield, Ill., by Cecilia M. Lofy and Magdalena Lofy, executrices, Springfield, Ill. Filed July 2, 1927. Serial No. 203,208. 1 Claim. (Cl. 291—11.)



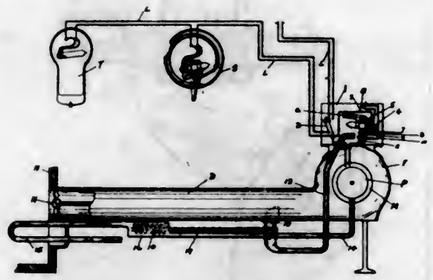
In a track sander, a sand box having a pipe section extending within the same, said pipe section having its outer end internally threaded, a hollow plug threadedly arranged within said pipe section having a sand discharge passage formed longitudinally therethrough, an inwardly disposed L-shaped extension formed on the plug with an air duct extending therethrough and terminating with its discharge end disposed concentrically with the sand discharge passage and the hollow plug forming a pressure nozzle removably carried at the discharge end of the air duct.

1,681,420. WINDOW VENTILATOR. JAMES M. LUDLOW, Carrollton, Ohio. Filed Jan. 6, 1928. Serial No. 244,936. 1 Claim. (Cl. 98—99.)



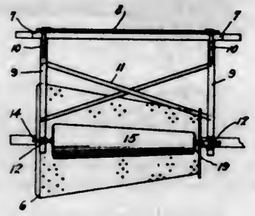
A screen comprising an inner and an outer apertured frame, a filter cloth in the opening of the inner frame, the said cloth having its edges extending inwardly within the frame and engaging the inner edges of the frame, means for binding the cloth to said frame, a mesh screen secured against the outer surface of the outer frame and covering the opening of the said outer frame, superimposed louvers on said outer frame having their edges overlapping and the lowermost louver having its lower edge on a plane below the aperture of the frame, securing members extending through one of the frames, and the other of said frames having slots for securing said securing members, whereby the frames are adjustably secured in contact with each other.

1,681,421. THERMAL SAFETY DEVICE. IRA E. MCCABE, Chicago, Ill. Filed Mar. 29, 1926. Serial No. 98,310. 8 Claims. (Cl. 158—28.)



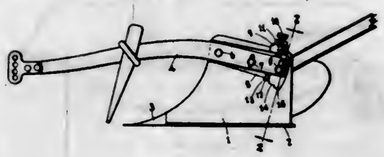
1. A thermal safety device for electrically-operated liquid fuel burner mechanisms, comprising a switch in the motor circuit normally operable to open said circuit, means adapted to hold the switch in closed position, a heat generating element in the motor circuit adapted to release said switch holding means, and means for passing a current of air adjacent said heat generating element to reduce the temperature thereof below the switch releasing degree, said means controlled by the activity of the burner flame.

1,681,422. ROTARY SCREEN CLEANER FOR CONICAL AND CYLINDRICAL SCREENS. FLORANCE MCAULIFF, Mandan, N. Dak. Filed Oct. 3, 1927. Serial No. 223,692. 2 Claims. (Cl. 209—384.)



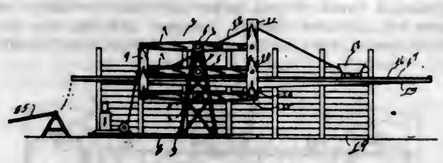
1. A screen cleaner of the class described comprising a shaft, a pair of sleeves on the shaft, spider structures on the sleeves, a sheet of metal disposed concentrically about the shaft having its longitudinal edges curved inwardly and fixed together so that the sheet is circular in cross section, the ends of the sheet being bent inwardly to provide flanges which are fixed to the ends of the spider structure.

1,681,423. PLOW. CHARLES A. LOUIS MONSARRAT, Riviere du Loup, Quebec, Canada. Filed Mar. 14, 1927. Serial No. 175,095. 3 Claims. (Cl. 97—114.)



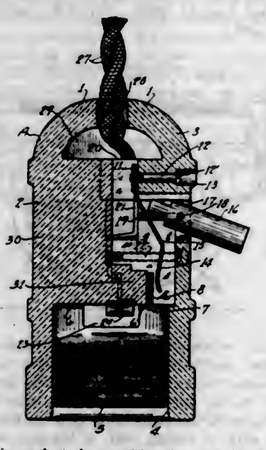
1. In a plow of the class described, a landside, a depression at the upper part thereof, a plow beam pivotally mounted in said depression, a series of steps in the lower wall of said depression, a block formed to rest on any of said steps so as to support the plow beam, and means to tighten said block on said steps.

1,681,424. MECHANICAL DEVICE. ALBERT A. MORTON, Baker, Oreg. Filed Aug. 31, 1925. Serial No. 53,454. 2 Claims. (Cl. 74—5.)



1. In a mechanical device, a support, parallel bars pivotally mounted in said support, vertically positioned tie pieces pivotally attached to said bars, one of said tie pieces having a vertically extending post, and an extended platform secured to one of said tie pieces and having its outer end supported from said post.

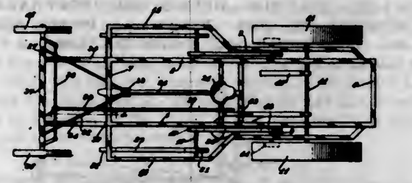
1,681,425. ELECTRIC SOCKET. ERNST MOXTER, St. Louis, Mo. Filed Nov. 22, 1923. Serial No. 676,406. 1 Claim. (Cl. 173—346.)



In an electric socket, in combination, an insulation shell, a pair of conductors seated within and disposed in spaced relation longitudinally of the shell, said conductors being also disposed in parallel relation and located, transversely of the shell, in different planes, separate screw members projecting from the exterior inwardly through the wall of the shell and engaging the respective conductors for securing the same to their seats, a switch-member disposed longitudinally of the shell and having one end secured in electrical engagement with one of said conductors by one of said screw-members, the switch-member having its other end normally in spaced yielding relation to the other conductor, and a lever mounted for oscillation upon the shell for depressing the free end of the switch-member into electrical engagement with said other conductor.

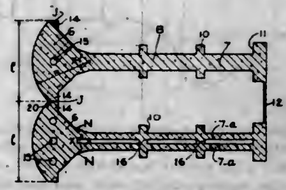
1,681,426. TRACTOR. THOMPSON W. NICHOLS, Grand Rapids, Mich. Filed Mar. 23, 1923. Serial No. 627,109. 1 Claim. (Cl. 180—1.)

In combination with the chassis and drive axle of a motor vehicle, the chassis including side rails, an axle at the front end of the chassis, bull wheels having internal teeth mounted on the axle, auxiliary side rails secured to the chassis in spaced relation with the side rails of the chassis, shafts supported between the side rails, pinions on the outer ends of the shafts and meshing with the internal teeth to operate the bull wheels, sprockets on the shafts, side rails arranged adjacent to the side rails of the chassis adjacent to the rear end of the chassis, shafts supported between the last mentioned rails, inner and outer sprockets mounted on each shaft, chains connecting the inner sprockets and first mentioned sprockets, sprockets on the drive axle, chains connecting the sprockets on the drive axle with the outer sprockets to transmit movement



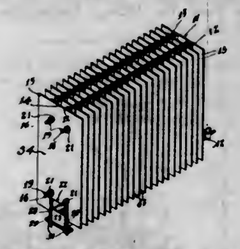
from the drive axle to the last mentioned shafts, and an auxiliary frame including guide wheels secured to the rear of the chassis.

1,681,427. DAM. FRED A. NOETZLI, Los Angeles, Calif. Filed July 13, 1926. Serial No. 122,141. 17 Claims. (Cl. 61—32.)



1. A dam comprising a buttress wall and a buttress head supporting the water pressure certain portions of said buttress head extending laterally on both sides of said buttress wall, said buttress head having such a contour on the water side that said water pressure is transmitted by said buttress head upon said buttress wall by direct compression.

1,681,428. FIN-TYPE AIR HEATER. ORAN W. OTT, Los Angeles, Calif. Filed May 28, 1927. Serial No. 194,937. 7 Claims. (Cl. 126—91.)



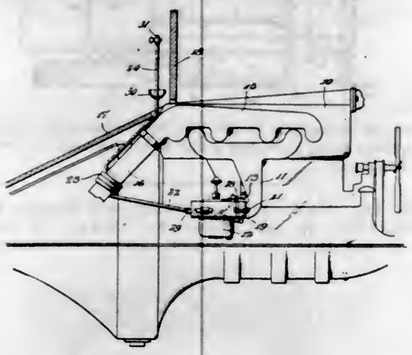
1. A fin type air heater comprising a series of upright flues, two of the walls of each flue being formed of channel-shaped members, fins projecting from the flanges of the channel-shaped members, and a gas burner positioned beneath the flues.

1,681,429. CONVEYER FLIGHT. REDMOND H. PANGBORN, Tacoma, Wash. Filed Apr. 28, 1924. Serial No. 709,420. 7 Claims. (Cl. 198—176.)



2. The combination with a conveyer chain of a link in said chain having a side opening whereby it may be detached and having lugs thereon and a conveyer flight provided with openings adapted to receive the said lugs to povide a rigid connection between the link and flight.

1,681,430. DILUTING DEVICE FOR INTERNAL-COMBUSTION ENGINES. BENJAMIN F. POTTER, Ashland, Ky. Filed Sept. 5, 1925. Serial No. 54,844. 1 Claim. (Cl. 123—119.)



In combination with a motor vehicle including an engine provided with a fuel mixture inlet and an exhaust, and a body provided with a floor board and a dash, an auxiliary air intake pipe communicating with said fuel mixture inlet and extending adjacent the exhaust to be heated therefrom with an end portion projecting upwardly through the floor board adjacent the dash, a control valve adjacent the upper end of said pipe adapted to be manually opened and closed, and a receptacle carried by the upwardly extending portion of said pipe above the floor board and shielded by the dash and adapted to contain fuel for preliminary heating of the pipe.

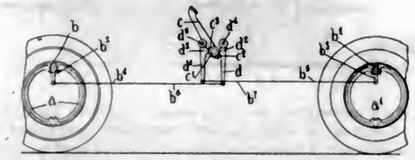
1,681,431. OIL GAUGE. ALEXIS R. PRIBIL, Saginaw, Mich. Filed Jan. 15, 1924. Serial No. 686,251. 5 Claims. (Cl. 73—120.)



3. An ullage rod consisting of a single strip of material adapted to extend downwardly into a liquid container having one end reversely bent upon itself to form a spring loop for frictional engagement with the container.

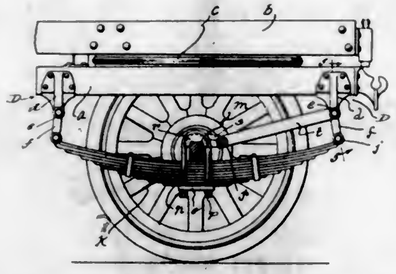
1,681,432. WHEEL BRAKE FOR VEHICLES. JOHN VERNON PUGH, Coventry, England, assignor to Rudge-Whitworth, Limited, Coventry, England. Filed Sept. 7, 1926. Serial No. 134,036, and in Great Britain Sept. 18, 1925. 10 Claims. (Cl. 188—10.)

2. A braking gear for applying braking forces to the wheels on both the forward and rear ends of a vehicle comprising a brake control power-application member, cam members operated thereby, members forming the force transmission lines to the front and rear wheel braking



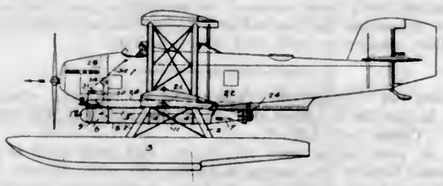
appliances and resilient means controlling the relationship between the relative movements of said transmission members.

1,681,433. VEHICLE-SPRING SUSPENSION. FREDERICK MALCOLM REID, Detroit, Mich., assignor to Fruehauf Trailer Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 14, 1925. Serial No. 50,166. 2 Claims. (Cl. 267—66.)



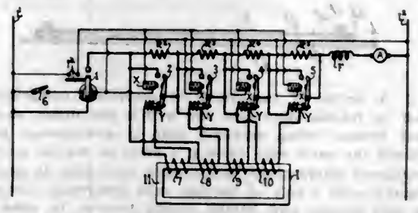
1. A spring suspension, having in combination with a vehicle frame and axle, a spring underslung on the axle, bolts embracing the axle for securing the spring thereto, a clip member on the upper side of the axle and held in place by the spring securing bolts, this clip having a portion for connection with a radius rod, a bracket secured to the frame having a projecting yoke member, a pin extending across the yoke for fastening one end of the radius rod thereto, and a spring shackle also fastened to the bracket by this pin, this spring shackle extending downwardly and having the spring secured to its lower end.

1,681,434. APPARATUS FOR LAUNCHING TORPEDOES. HOLDEN C. RICHARDSON, Washington, D. C. Filed Oct. 4, 1926. Serial No. 139,396. 3 Claims. (Cl. 244—1.)



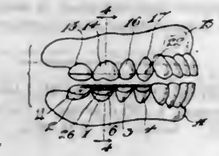
3. In an apparatus for launching a self-propelled submarine torpedo from an aircraft, a discharge tube, a control cylinder mounted thereon and having communication therewith, means for securing the torpedo in the tube, means for tripping the internal mechanism of the torpedo, means for preventing premature rotation of the torpedo propellers, all of said means being connected to be operated in unison, a plunger operable in the cylinder for simultaneously operating the restraining means and permitting a force to be exerted against the torpedo for its delivery from the discharge tube.

1,681,435. MOTOR CONTROLLER. FRANK J. RUSSELL, Wauwatosa, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 1, 1926. Serial No. 112,845. 18 Claims. (Cl. 172—288.)



1. In a motor controller, in combination, a plurality of starting resistances for the motor to be excluded from circuit sequentially, a plurality of switches each controlling one of said resistances, certain of said switches each having a restraining coil connected to the resistance preceding the resistance controlled thereby, whereby operation of each switch is dependent upon prior operation of its preceding switch and means to supply a transient current to the restraining coil of each switch to delay operation thereof, said means comprising a plurality of windings arranged in a mutually inductive relation and each connected in series with the restraining coil of one of said switches.

1,681,436. ARTIFICIAL TEETH. VICTOR H. SEARS, New York, N. Y. Filed Apr. 9, 1927. Serial No. 182,399. 12 Claims. (Cl. 32—9.)



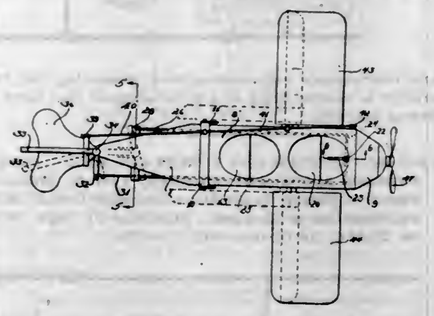
1. In dentures, a lower set of molar teeth having their occlusal surfaces in the form of ridges extending in front to rear direction and having downwardly receding oppositely inclined surfaces, and an upper set of molars having their occlusal surfaces in the form of grooves substantially corresponding in cross-sectional shape to said ridges and extending in the same direction, said ridges entering said grooves when the upper and lower teeth are in occlusal position and permitting free relative sliding of the upper and lower teeth back and forth and laterally, one side of said grooves having projections to cooperate with said ridges in cutting, shredding or tearing food.

1,681,437. CONVENIENCE OUTLET FOR LIGHTING FIXTURES. ROY W. SCHWEIKER, Lansdale, Pa. Filed Mar. 8, 1926. Serial No. 93,291. 2 Claims. (Cl. 173—338.)



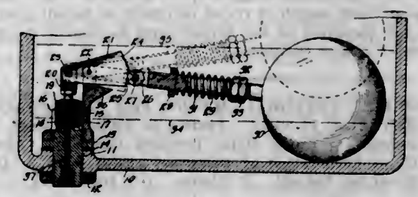
1. In a convenience outlet for lighting fixtures, the combination with lighting fixture body which is pierced with narrow slots leading from the exterior to the interior surface thereof, of a block of insulating material carried by the rear wall of said body and wholly covered thereby so as to be unexposed on the exterior of said body, said block having chambers therethrough and provided on one face with countersinks and with channels leading to said countersinks, of terminals received in said countersinks and engaged with the walls thereof whereby said terminals are prevented from twisting or turning, said terminals having contact parts projecting into the chambers and housed by the latter and movable laterally therein, and screws for holding the terminals in the countersinks and for attachment to the ends of the circuit wires, said channels being adapted to receive the circuit wires.

1,681,438. TOY AEROPLANE VEHICLE. NICK SCOURTES and PAUL KABOUZOS, Detroit, Mich. Filed Jan. 19, 1927. Serial No. 161,991. 4 Claims. (Cl. 208—42.)



1. A vehicle of the class described comprising: a body portion formed from a plurality of sections; means for attaching said sections together; a steering traction wheel carried by said vehicle; sectional means extending from the forward part of said vehicle to said steering traction wheel for operating the same, one of the sections of said body and one of the sections of said means being removable at will, said attaching means being operative for attaching adjacent ends of remaining sections together after the removal of said one section.

1,681,439. FLUID-REGULATING VALVE. FRANCIS SHENTON, Waynesboro, Pa., assignor to Frick Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Feb. 6, 1926. Serial No. 86,556. 5 Claims. (Cl. 137—103.)

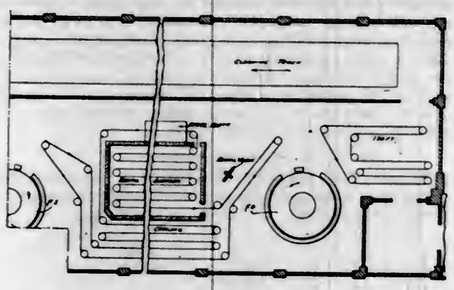


1. The combination of a receptacle having an outlet passage, a valve for closing said passage, and cam means acting on said valve to hold it closed with increasing force as the liquid rises in the receptacle to a predetermined level and then to open the valve suddenly to permit the liquid to be discharged, substantially as set forth.

1,681,440. PROCESS FOR CONTINUOUS GLASS ENAMELING. ALVIN G. SHERMAN and ALBERT MEADOWS, Detroit, Mich., assignors to Detroit Vapor Stove Company, Detroit, Mich., a Corporation of Michigan. Filed May 21, 1925. Serial No. 31,810. 11 Claims. (Cl. 91—73.)

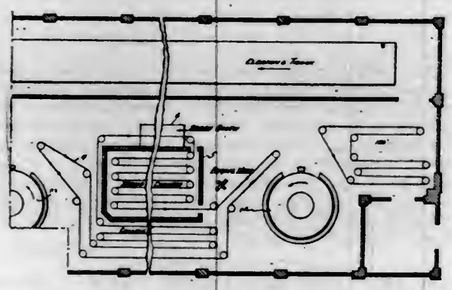
1. The process of enameling metal articles adapted to be finished by one or more firing operations, which comprises continuously passing the articles through a cleaning liquid, enamel-coating the articles at a predetermined time relative to the cleaning thereof, continuously conveying the enamel-coated articles consecutively adjacent a source of radiant heat whereby to allow part of the enamel to drip

off but causing setting of the enamel at the required time to temporarily fix the coat of enamel relative to the firing conditions, artificially forcing the drying of said fixed coat



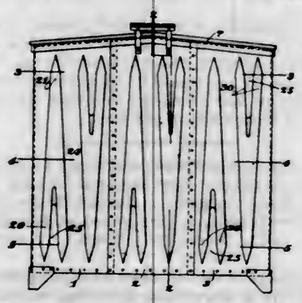
and continuously and consecutively presenting the dried articles to compel firing at a predetermined time after the drying operation.

1,681,441. CONTINUOUS PORCELAIN MILL. ALVIN G. SHERMAN and ALBERT MEADOWS, Detroit, Mich., assignors to Detroit Vapor Stove Company, Detroit, Mich., a Corporation of Michigan. Filed May 21, 1925. Serial No. 31,811. 10 Claims. (Cl. 91—73.)



1. In an apparatus for the continuous enameling of metallic articles, a firing furnace provided with a continuously moving carrier, separate means for treating articles to be fired including conveyors coordinated as to speed, capacity and length of travel therewith to permit uninterrupted operation of the furnace and to control the time element of each treatment.

1,681,442. INTEGRAL MEANS FOR REENFORCING METALLIC PLATES. ARTHUR E. SMALL, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Sept. 3, 1926. Serial No. 133,434. 11 Claims. (Cl. 105—410.)



1. A metallic plate formed with a plurality of parallel embossments, each having a wide end and a narrow end, said embossments positioned with their wide ends alternately disposed, said wide ends being divided by ribs extending toward the middle of the embossments.

1,681,443. ANTIFROST DEVICE FOR WINDOWS. HARRAY H. STEINMAN, St. Paul, Minn. Filed Feb. 15, 1926. Serial No. 88,306. 2 Claims. (Cl. 20—40.5.)



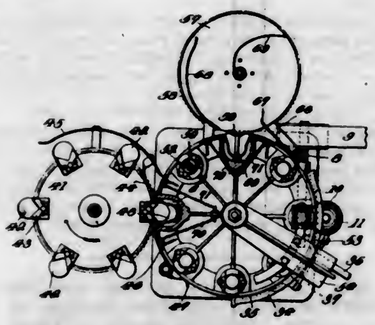
1. A device of the character described, comprising a pair of frames insertable one within the other, each of said frames being provided with a downturned flange around the outer edge thereof, a strip of flexible material positioned intermediate said flanges to be held in position thereby, and a pair of vacuum cups removably connected to said frames and having means thereon to draw the frames into proximity with each other to grip a sheet of material between said frames and to hold it in position in said frames.

1,681,444. SHAFT PACKING. EDWARD W. STEVENS, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Original application filed Mar. 17, 1925, Serial No. 16,095. Divided and this application filed Mar. 19, 1926. Serial No. 95,842. 2 Claims. (Cl. 206—56.)



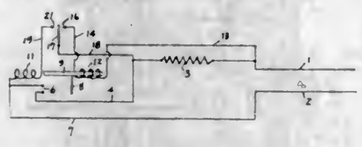
2. As a new article of manufacture, a stiff hollow cylinder and a packing molded of relatively soft material within said cylinder and retained in shape thereby and arranged to be forced therefrom directly into a packing recess.

1,681,445. CONTINUOUS VACUUM JAR-CLOSING MACHINE. THOMAS L. TALIAFERRO, Chicago, Ill. Filed July 10, 1922. Serial No. 574,083. 6 Claims. (Cl. 226—82.)



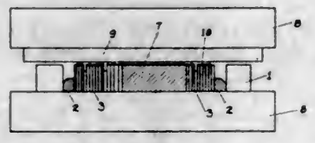
1. A jar closing machine including in combination a continuously rotating turret having a plurality of segmental pockets, a relatively short stationary member for closing said pockets in succession, means for placing the pockets under vacuum while passing said stationary member, devices associated with each pocket for closing the jars while under vacuum and while the turret is rotating, and a feeding-in disk for feeding the jars into the segmental pockets, said disk having spaced supports adapted to carry the jars into the pockets, said disk being disposed relative to the turret whereby said jars are fed into the pockets at a point distant from the edge of the stationary member so that said jars may be inspected to insure that they are properly positioned in the segmental pockets before concealed from view by said stationary member and placed under vacuum.

1,681,446. THERMOSTATIC CONTROL. REUBEN S. TICE, Monterey, Calif., assignor of one-half to Arthur L. Holcomb, San Jose, Calif. Filed May 9, 1927. Serial No. 189,975. 3 Claims. (Cl. 236—75.)



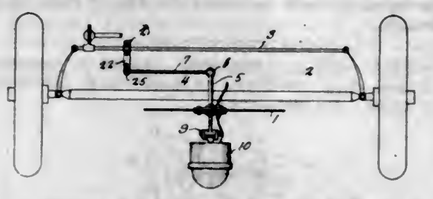
1. In combination, a circuit containing a current consuming device and a switch in series therewith, a switch closing circuit, and a control element for the latter, the said circuit being shunted across the switch so as to be shorted by the latter after the circuit has closed the switch.

1,681,447. MATRIX AND METHOD OF MAKING THE SAME. EGIL R. TORAISON, Philadelphia, Pa., assignor to John Stogdell Stokes, Huntingdon Valley Post Office, Pa. Filed Aug. 26, 1926. Serial No. 131,768. 12 Claims. (Cl. 101—401.2.)



1. A composite element for use in the printing art having a type forming face of sprayed metallic particles and a suitable non-metallic backing or body portion.

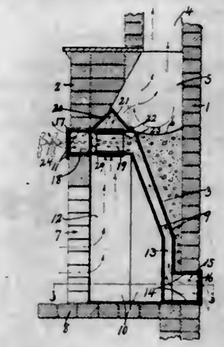
1,681,448. AUTOMOBILE HEADLIGHT AND CONTROL MECHANISM. SETH L. TUCKER and FLOYD C. TUCKER, Hornell, N. Y. Filed Apr. 2, 1927. Serial No. 180,545. 2 Claims. (Cl. 240—62.)



1. In combination with the apron of an automobile having an opening therein, headlight control mechanism including an arm having an intermediately arranged bearing, a shaft upon which the bearing of the arm is mounted, and plates arranged on opposite sides of the apron contiguous to said opening and provided with mating bearing portions for the ends of said shaft.

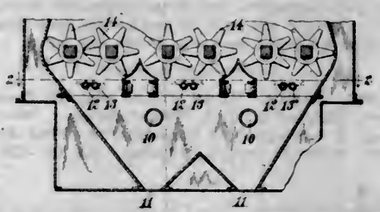
1,681,449. FIREPLACE. HERBERT H. WALTERS, Syracuse, N. Y. Filed Mar. 14, 1927. Serial No. 175,246. 2 Claims. (Cl. 126—121.)

1. The combination with a chimney having a recess for receiving a fireplace and provided with a smoke flue leading from the top of the recess, of an open fireplace comprising a hollow metal shell having upright back and side portions and a substantially horizontal top portion, said shell having a cold air inlet near the bottom of the back portion and a warm air outlet in the front end of the horizontal top portion, smoke flues extending vertically through the horizontal top portion some distance from the front and rear ends thereof, a deflector plate secured to the top wall of the horizontal portion of the shell in front of the smoke flues and extending upwardly and rearwardly over the central portions of the smoke flues, a damper hinged to



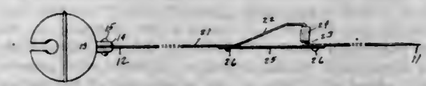
said top wall at the rear of the smoke flues to swing forwardly and rearwardly into and out of engagement with the upper edge of the deflector plate, a damper in said horizontal top portion between the smoke flues and warm air outlet, and means operable at will for simultaneously opening said dampers.

1,681,450. LOW-TEMPERATURE FUEL DISTILLATION. EDMUND GEORGE WEEKS, Dunston, England, assignor of one-half to the Firm Merz & McLellan, Engineers, Westminster, London, England. Filed Jan. 15, 1924, Serial No. 686,395, and in Great Britain Oct. 3, 1923. 5 Claims. (Cl. 202—8.)



1. A process for low temperature distillation of carbonizable solid fuel for the recovery of highly volatile oils and the accompanying partial carbonization of the remaining fuel without gumming, which comprises, partially carbonizing the material by passing steam and atmospheric air in regulated amounts to an enclosed body of the fuel, having one component of said fluid medium preheated to a temperature such that the temperature of the mixture of steam and air while being injected is at least as high as the temperature of ignition of the fuel, whereby a portion of the fuel is ignited, and having the quantity of atmospheric air thus admitted limited to that necessary for the combustion of a small percentage only of the enclosed body of fuel.

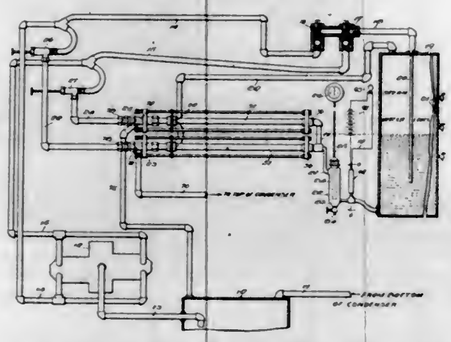
1,681,451. BURGLAR ALARM. MAXWELL A. WEST, Portland, Oreg. Filed Mar. 28, 1927. Serial No. 178,861. 4 Claims. (Cl. 116—77.)



1. A burglar alarm having, in combination, a resilient pointed blade member adapted to be thrust into the woodwork of a door jamb between the door and its casing; a bell attached to said blade forming a handle member therefor;

and a latch formed on one side of said blade having a sloping side facing said bell and a shouldered side facing the pointed end of said blade, said latch having a soft face adapted to prevent the marring of said door and to inncrease the frictional engagement between said door and shoulder while said door is being opened until said bell is completely released from its support.

1,681,452. WATER-LEVEL INDICATOR. RAYMOND E. WHITE, Newton, Mass., assignor to Steam Vehicle Corporation of America, Newton, Mass., a Corporation of New York. Filed June 3, 1925. Serial No. 34,597. 13 Claims. (Cl. 122—451.1.)



1. In combination, a boiler having steam space and water space, a connection between the said spaces including a radiating surface for cooling the water and steam in the said connection, the steam in the said connection upon condensing being adapted to impart heat to the cooled water in the said connection, and means responsive to the heat of the water in the said connection for indicating the approximate level of the water within the boiler.

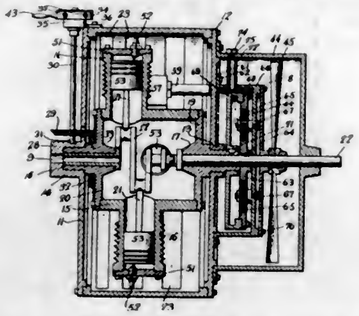
1,681,453. BRUSH. HENRY HARLOW WRIGHT, Worcester, Mass., assignor to M. S. Wright Company, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 21, 1925. Serial No. 24,807. 2 Claims. (Cl. 15—179.)



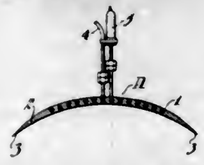
1. The combination with a rotatable brush and supporting bearings therefor, of a deflecting member carried by the brush adjacent each end thereof, each of said deflecting members having an opening through which the ends of the brush may extend and having a portion extending parallel with the brush spindle and an outwardly extending flared portion, the outer edge of the flared portion being positioned substantially in a line with the end of the brush spindle.

1,681,454. ROTARY GAS ENGINE. GEORGE BURTON ABER, Cranberry Lake, N. Y. Filed Sept. 14, 1927. Serial No. 219,459. 12 Claims. (Cl. 123—44.)

1. In an internal combustion engine, a stationary casing, a crank case rotatably mounted in the casing, a plurality of cylinders radiating outwardly from the crank case, pistons in the cylinders, a crank shaft rotatable in the crank case, connecting rods between the pistons and the crank shaft, said casing having a plurality of elongated slots to afford circulation of air in and out of the casing, gearing operatively connecting the crank case with the crank shaft to set up rotation of the crank shaft in one direction upon rotation of the crank case in an opposite direction, means for delivering a combustible mixture to the interior of the crank case, said cylinder being formed with conduits leading from the interior of the crank case to the intermediate portions of the cylinders, exhaust reservoirs in the casing, conduits leading from the cylinders to the reservoirs, an exhaust chamber on the casing and formed with an outlet, said shaft extending into the chamber, a fan on the shaft in the chamber, conduits leading from the reservoirs to the chamber, said fan drawing the burnt gases from the cylinders through the first exhaust conduits, through the reservoirs, through the second exhaust conduits into the chamber and exhausting the gases through the outlet, and ignition means associated with the cylinders.

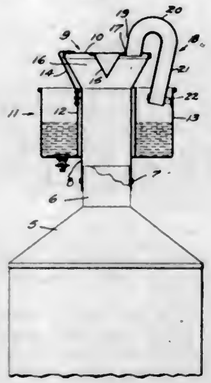


1,681,455. PATCH VULCANIZER. HILTON J. ANDERSON, St. Paul, Minn. Filed Feb. 7, 1927. Serial No. 166,392. 1 Claim. (Cl. 18—18.)



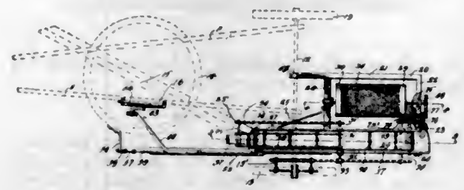
A patch vulcanizer, comprising a flat coil of tubing imbedded in a plastic metal matrix, means for connecting one end of said tubing to a source of steam and control means associated therewith to control the flow of steam therethrough.

1,681,456. SPARK ARRESTER. JAMES O. ANDERSON, Eugene, Oreg. Filed Jan. 13, 1926. Serial No. 80,897. 1 Claim. (Cl. 261—126.)



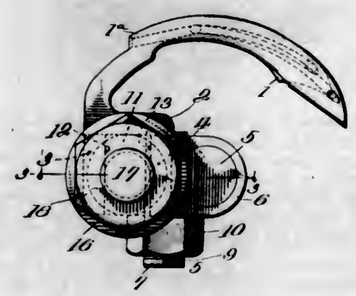
A spark arrester comprising, in combination, a smoke stack, an annular water-containing pan surrounding said stack, a head member connected to the upper end of the stack, said member being of an inverted truncated conoidal shape, said member having a top wall provided with a circular series of apertures disposed concentrically of the axis of the head, an inverted conoidal shaped baffle depending from the central portion of said wall, and a plurality of nozzles each nozzle consisting of a tube formed of an inverted U-shape, one end of each tube being connected to the head at the respective aperture and the other ends of the respective tubes extending downwardly into said pan.

1,681,457. ROCK-GATHERING MACHINE. WILLIAM E. ASPLUND, Deer Park, Wis. Filed Jan. 11, 1926. Serial No. 80,655. 3 Claims. (Cl. 53—17.)



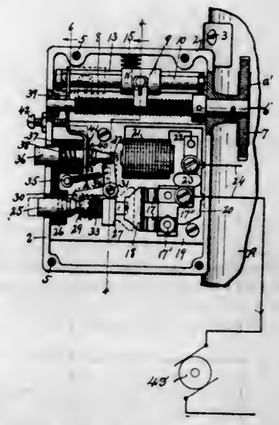
1. A rock gathering and road material separating mechanism for attachment to a wheeled road grader having a rotatable axle, comprising a frame embodying means for mounting the same on the axle, a forwardly extending baffle secured to the lower end of the frame and adapted to be drawn over the ground and in contact therewith to accumulate the scraped road material, an endless conveyor mounted in the frame, a rotary gathering wheel mounted at the lower end of the conveyor for delivering the road material onto the conveyor, a rotatable separating drum operatively mounted beside the upper portion of the frame, a conducting chute mounted at the upper end of the frame adapted to convey the material delivered thereto, from the conveyor, into the rotatable drum, and drive mechanism including means for association with the axle for operating the conveyor, the gathering wheel, and the drum.

1,681,458. LOOPER SUPPORT FOR SEWING MACHINES. JOHN M. BIDDLE, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed May 15, 1926. Serial No. 109,343. 7 Claims. (Cl. 112—199.)



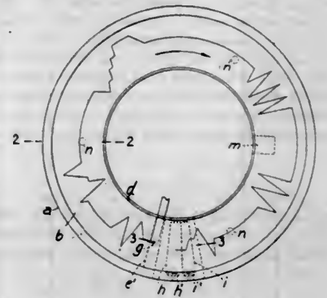
1. A looper support for sewing machines comprising a carrier having a non-circular cross section, a looper having a forked shank adapted to straddle said carrier, said carrier having a shoulder at one end thereof and a clamping nut at the other end thereof for forcing the looper against said shoulder for clamping the same to the carrier.

1,681,459. ELECTRIC MOTOR CONTROL. DONALD M. BLISS, Syracuse, N. Y., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y., a Corporation of New York. Filed Nov. 20, 1924. Serial No. 751,077. 2 Claims. (Cl. 172—239.)



1. In an apparatus of the class described, an electric motor, a motor circuit, a motor driven member, means actuated by an overload in said circuit for effecting the opening thereof, and additional means actuated by the driven member for causing the operation of a part of the first-named means to effect the opening of the motor circuit at the end of a predetermined running period of the driven member.

1,681,460. RECORDING DEVICE. FRIEDRICH WILHELM GUSTAV BRUHN, Berlin-Wilmersdorf, Germany. Filed Feb. 1, 1927, Serial No. 165,211, and in Germany Dec. 16, 1926. 4 Claims. (Cl. 234—1.)

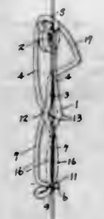


1. A recording device, comprising, in combination, a rotatory transparent annulus and a thin layer of a plastic mass thereon, a stylus operated by the device penetrating into said layer and producing a curve therein, and a roller so arranged with respect to said annulus and the layer thereon as to be adapted to make the curve disappear and render the layer fit to receive another curve.

1,681,461. CLOTHESPIN. WILLIAM R. BUTNER, Yerington, Nev., assignor of one-third to George R. Magee, Yerington, Nev. Filed May 9, 1927. Serial No. 190,051. 1 Claim. (Cl. 24—139.)

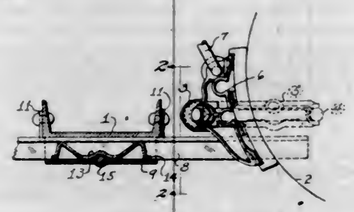
A clothes pin constructed from a single piece of wire comprising a pair of legs connected to each other by a coil that has spring qualities for urging the legs into contact

with each other, one of said legs being U-shaped and having a rounded closed end for removably receiving the other leg, the rounded end normally contacting with the other leg, said legs having registering bends intermediate their length for receiving a clothes line therebetween, said U-



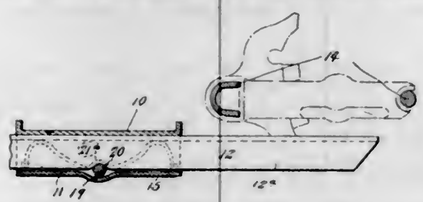
shaped leg having its free end fashioned into a loop for receiving the coil and for preventing the coil from spreading, the loop engaging with the top of the coil, and the other leg having a projecting portion for facilitating the removal of the clothes pin.

1,681,462. SUPPORT-ARM BRACKET. EDWIN G. BUSSE, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed May 6, 1927. Serial No. 189,235. 5 Claims. (Cl. 188—210.)



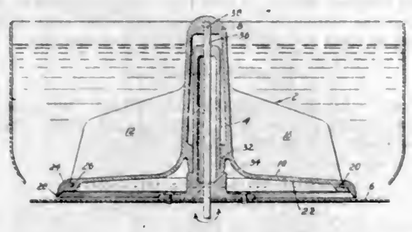
1. In combination, a horizontally disposed car truck part having a vertical surface, a U-shaped bracket below and extending transversely of said truck part, a brake beam guide or support arm positioned in said support bracket and extending beyond the ends of the same, elements on said bracket at each side of said arm and secured to said vertical surface on said truck part, and a yielding element extending substantially throughout the length of said bracket, carried on the bottom thereof and supporting said arm.

1,681,463. SAFETY GUARD. EDWIN G. BUSSE, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed May 15, 1925. Serial No. 30,490. 20 Claims. (Cl. 188—210.)



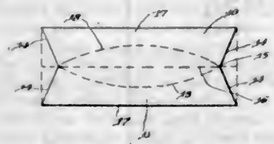
1. A safety guard for brake beams comprising a mounting having parallel side walls, a beam engaging member provided with a horizontally disposed portion, a pin carried by said mounting and extending transversely of said walls for engaging said member, the flange of the latter being provided with a seat for receiving said pin, and a resilient member having a fixed bearing and yieldingly engaging the horizontally disposed portion of said member.

1,681,464. CLOTHES-WASHING-MACHINE AGITATOR. LEON CAMETO, Oakland, Calif., assignor to Modern Foundry and Pattern Works, Oakland, Calif., a Corporation of California. Filed Oct. 6, 1926. Serial No. 139,849. 9 Claims. (Cl. 259—134.)



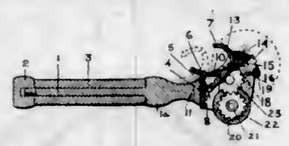
7. A rotary agitator for clothes washing machines having a peripheral band of resilient material.

1,681,465. TOY BOAT. EDWARD L. CAYO, Buchanan, Mich., assignor to Benton Harbor Manufacturing Corporation, Berrien County, Mich., a Corporation of Michigan. Filed Feb. 25, 1927. Serial No. 171,002. 6 Claims. (Cl. 9—6.)



1. In a toy boat, a boat body including outer sheets of material, and a sheet of corrugated material arranged between the outer sheets and forming together with the outer sheets air chambers extending transversely of the body from one longitudinal edge thereof to the opposite longitudinal edges thereof and said air passages having their opposite end portions closed by the longitudinal edges of the sheets and being unobstructed in their directions from said one longitudinal edge to said other longitudinal edge.

1,681,466. RAZOR. PAUL COOK, Seattle, Wash. Filed July 22, 1925. Serial No. 45,212. 8 Claims. (Cl. 30—12.)

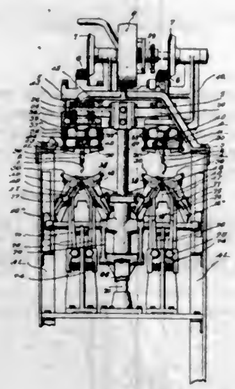


1. In a device of the class described, a frame, an abrasive roller mounted in the said frame, a blade pivotally supported in the frame, releasable means for normally retaining the blade in position for shaving, and means operable by moving the roller in opposite directions in rolling contact with a superficiary for actuating the blade to engage opposite sides of the cutting edge with the roller for sharpening.

1,681,467. MACHINE FOR REMOVING SEED CELLS FROM FRUIT SUCH AS APPLES. BURTON C. COONS, Rochester, N. Y., assignor to Coons Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed May 1, 1925. Serial No. 27,138. 32 Claims. (Cl. 146—40.)

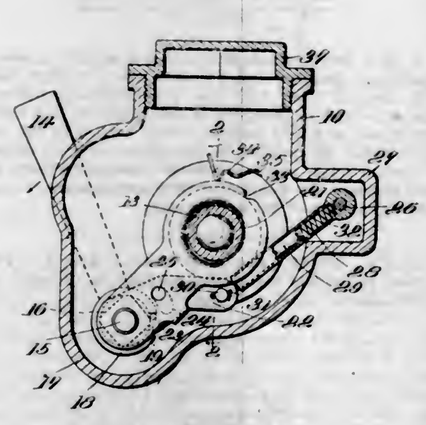
1. The combination with a rotary seed cell removing knife movable inwardly and outwardly with reference to

the axis of turning of the knife, of centering and holding jaws movable toward and from said seed cell removing knife in line with the axis of turning of said knife, and an endless carrier having pins thereon, and means for moving



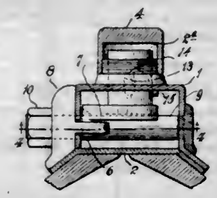
said carrier step by step to cause said pins to align with the axis of turning of the seed cell removing device, so that the centering and holding jaws may move from the pins to the seed cell removing knife and vice versa.

1,681,468. QUICK-ACTING GATE VALVE. JAMES M. DAYTON, Torrington, Conn. Filed May 26, 1926. Serial No. 111,759. 8 Claims. (Cl. 251—18.)



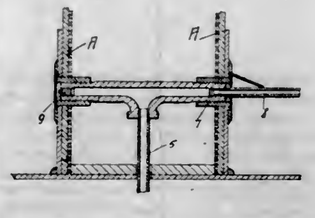
1. In a valve having an aperture, a member selectively to close and free said aperture, a toggle, means to actuate said toggle to bring the axes of the same into and beyond a straight line, a spring to move the central axis of said toggle away from the line joining the outer axes thereof when the axes are not in a straight line, cooperating means on said toggle and member whereby said toggle moves independently of said member into a straight line while the member is in closing position, said cooperating means moving said member instantaneously to a position of substantial opening during the subsequent movement of said toggle beyond such straight line, said actuating means thereafter regulating the area of flow through said aperture between such position and the maximum.

1,681,469. LOCKING DEVICE FOR MOTOR-VEHICLE TIRES AND RIMS. ROBERT DOUGAN, Dallas, Tex. Filed Apr. 4, 1927. Serial No. 180,794. 5 Claims. (Cl. 70—90.)



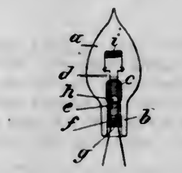
1. A locking device adapted to be used for locking together a wheel felloe and its rim, comprising a rim lug located at one side of the felloe and having a portion extending laterally into and movable laterally with respect to the felloe, and a lock for securing said extension to the felloe.

1,681,470. FITTING. FRANK A. DREES, Pawhuska, Okla., assignor, by mesne assignments, of one-half to Fred D. Turner, Pawhuska, Okla. Filed Aug. 1, 1924. Serial No. 729,577. 1 Claim. (Cl. 137—75.)



In a pipe fitting, a face plate having an internally threaded socket integral therewith, the said face plate being adapted to engage the surface of a wall or floor through which the socket passes, a door member hinged to the face plate for normally closing one end of the socket, a T-member connected in a pipe line having one end threaded in the socket, the said end being also internally threaded for the reception of a small pipe whereby the plate forms no part of the pipe line but is merely a threaded support for the pipe at a point where a smaller pipe is connected into the main pipe line.

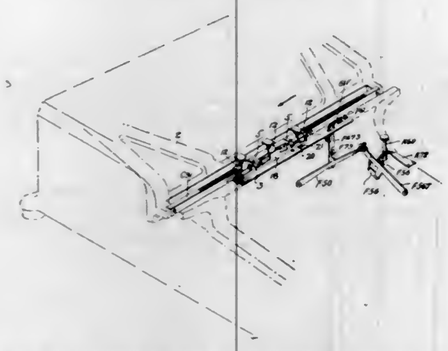
1,681,471. SAFETY DEVICE FOR SERIES-CONNECTED INCANDESCENT ELECTRIC LAMPS. FRITZ ECKHARDT and MAX HOHNEKAMP, Eisenach, Germany. Filed July 16, 1926, Serial No. 122,980, and in Germany Jan. 29, 1926. 5 Claims. (Cl. 176—24.)



1. In an incandescent electric lamp for connection in series, a hermetically sealed air-containing hollow space within the foot of the lamp, lead-in wires for the filament extending through the said hollow space, a normally non-conductive shunt to the filament constituted by a dry loose

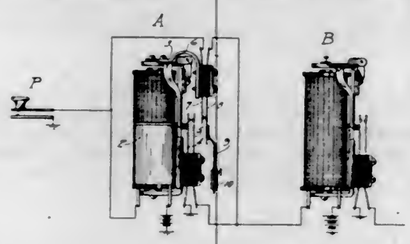
aluminum powder partially filling the said hollow space and having its granules in light contact with one another and with thin insulation between them and in electric contact with the said lead-in wires, said shunt, on the filament being destroyed being capable of becoming conductive by the action of the total voltage applied to the series and of bridging over the faulty places.

1,681,472. SELECTIVE MULTIPLE TABULATING STOP. EMIL JOHN ENS, Newark, N. J., assignor to Ellis Adding Typewriter Company, Newark, N. J., a Corporation of New Jersey. Filed Sept. 13, 1926. Serial No. 135,147. 4 Claims. (Cl. 197—176.)



2. The combination with the movable carriage of a machine adapted for printing characters, said carriage being adapted to carry a rotatable paper-holding platen, of a carrier, independent selectively settable stops unitary with the carrier, said carrier and stops being mounted on, and shiftable with said movable carriage, and latching means for holding in set position any stop which has been set, said latching means also automatically releasing any previously set stop or stops when another stop is set.

1,681,473. ELECTROMAGNETIC RELAY. JOHN ERICKSON, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Sept. 7, 1920, Serial No. 408,673. Renewed June 20, 1927. 12 Claims. (Cl. 175—320.)



1. The combination, with a relay and an energizing circuit therefor, of means independent of the relay for closing said circuit momentarily, and means for maintaining said relay energized after its original energizing circuit is broken, said means comprising a locking circuit and a vibrating pendulum for controlling said locking circuit.

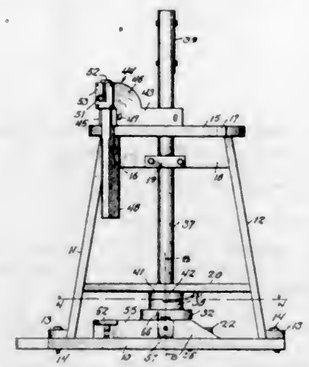
1,681,474. LAUNCHING AND LANDING PLATFORM. JULIUS S. FOX, Cleveland, Ohio. Filed Sept. 27, 1926. Serial No. 137,893. 3 Claims. (Cl. 244—2.)

1. A launching and landing platform for aerial vehicles, comprising an endless traveling element having its upper run substantially level with the surface of the platform, and its lower run extending below the same, and power-driven means for directly driving the lower run of said element, and roller supporting means in said platform directly beneath said upper run and comprising a series of sectional, elongated roller elements pivotally mounted



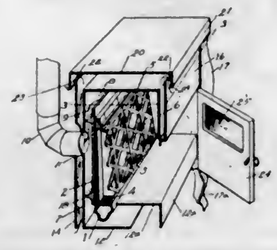
transversely of the platform and directly beneath the upper run, the upper edges of said roller elements of the entire series forming together a continuous supporting tread surface for the upper run of said traveling element to support it and the load carried thereby.

1,681,475. SAFETY SWITCH STAND. PETER FRANDSEN, Monett, Mo. Filed Feb. 5, 1926, Serial No. 86,287. Renewed Nov. 14, 1927. 13 Claims. (Cl. 246—413.)



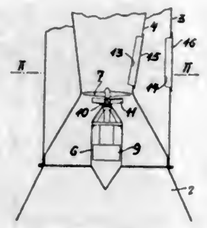
1. In a switch stand of the class described, a base, a supporting platform carried by said base, a member rotatably mounted upon said base, a substantially vertically disposed standard journaled in said platform, and having connection with said member, means carried by the base and movable into and out of engagement with the member to prevent rotary movement thereof, and means carried by said standard for cooperation with said platform for preventing rotation of the said standard.

1,681,476. STOVE. EDWARD G. GERMER, Erie, Pa. Filed Dec. 10, 1926. Serial No. 153,781. 8 Claims. (Cl. 126—92.)



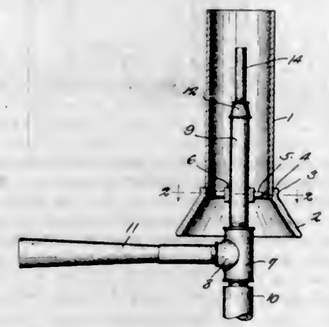
1. In a stove, the combination of a stove burner; a radiant body above the burner; a stove shell having passages collecting and discharging the products of combustion; and a case in which the shell is mounted having air spaces between the shell and the case discharging from the upper part of the case to the outer air in which the stove is placed.

1,681,477. SHIP'S FUNNEL. HANS HASS, Hamburg-Bergedorf, Germany. Filed Dec. 31, 1924, Serial No. 759,189, and in Germany Jan. 2, 1924. 5 Claims. (Cl. 110—162.)



1. A ship's smoke stack, comprising a substantially cylindrical funnel, a double conical insert in and connected with the said funnel to form a constricted passage therein, the diameter of said passage being substantially less than that of said funnel, a steam-line member in the funnel mounted underneath the point of constriction and exhibiting even, eddy-preventing guide surfaces, a propeller mounted in the said member to lie in the plane of constriction, a turbine arranged within the said member for driving the said propeller, and a stationary guiding member supported by the said member and having guiding wings inclined to guide in a direction oppositely to the revolving direction of the said propeller, substantially as and for the purpose set forth.

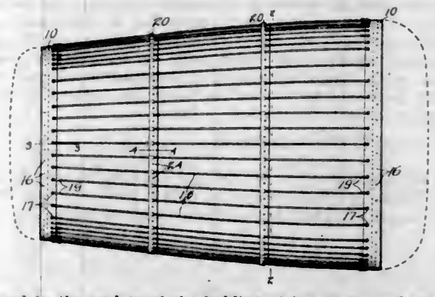
1,681,478. BLOW AND FLUE CLEANER. JOHN H. HOBSON, Sulphur Springs, Ark. Filed Oct. 18, 1926. Serial No. 142,385. 1 Claim. (Cl. 230—94.)



A combined blower and flue cleaner comprising a tubular body of a common diameter from end to end and provided at one end with a funnel-shaped apron, the tubular body having an internal spider disposed closely adjacent to one end of the body, a T coupling disposed adjacent to the apron and having a lateral nipple, a nozzle mounted in the spider and extended into the body, one end of the nozzle being mounted in one end of the coupling; a member in the other end of the coupling, and a member in the lateral nipple of the coupling, one of said members being a fluid-pressure conduit, and the other of said members being a projecting solid closure.

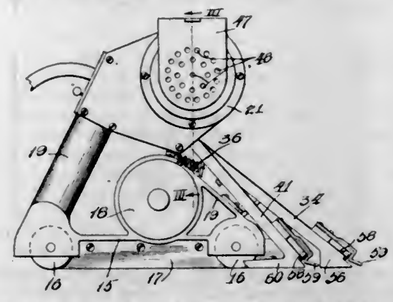
1,681,479. DECK FRAME FOR AUTOMOBILE TOPS. MATTHEW R. HULL, Connersville, Ind., assignor to Rex Manufacturing Company, Connersville, Ind., a Corporation of Indiana. Filed Dec. 9, 1925. Serial No. 74,405. 5 Claims. (Cl. 296—137.)

1. A deck frame comprising end bows, holding strips fastened to said bows each of which projects inwardly towards the opposite bow, said holding strips being provided with eyelets, an intermediate bow, a holding strip mounted on said intermediate bow and being provided with perforations and longitudinal wires having their ends dis-



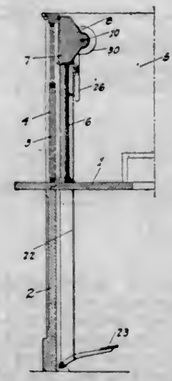
posed in the eyelets of the holding strips of the end bows and extending through the perforations of the holding strip of the intermediate bow, substantially as set forth.

1,681,480. WASHER-PLACING MACHINE. EDWARD HUTCHENS, Cudahy, Wis. Filed Jan. 16, 1926. Serial No. 81,668. 5 Claims. (Cl. 18—1.)



1. A machine of the class described comprising a chamber to sort washers, chutes conducting washers from the chamber, chute fingers for conducting washers from said chutes to pins upon which the washers are to be deposited, a crankshaft journaled in the walls of said chamber, a wiper movable across the openings to said chutes and eccentrically journaled on said crank shaft opposite to the crank thereof whereby the crank counterbalances said wiper.

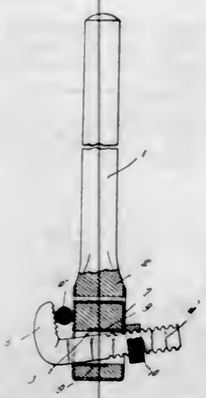
1,681,481. BANK-PROTECTING DEVICE. JOHN W. JOHNSTON, Stockton, Calif. Filed Apr. 13, 1926. Serial No. 101,690. 3 Claims. (Cl. 20—1.01.)



1. A device for protecting an opening comprising a curtain mounted in connection therewith to cover the same

and normally clear of said opening, spring means tending to move the curtain to a covering position, said spring means having a strength sufficient to impel the curtain to a closing position but insufficient to maintain it in such position, releasable means normally preventing the spring means from functioning, and releasable catch means to engage and positively hold the curtain in covering position after the spring means has initially acted to move the curtain to such position.

1,681,482. CABLE WRENCH. MARVIN JOHNSTON and MERLE H. SCOTT, Sapulpa, Okla. Filed Feb. 28, 1927. Serial No. 171,528. 1 Claim. (Cl. 81—165.)



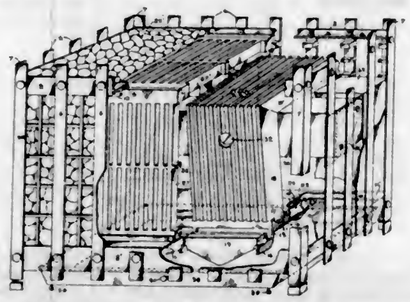
In a cable wrench of the class described, a body comprising an elongated handle having an enlarged rectangular head at one end, a metal casing carried by said head, said head having an opening extending transversely theretbrough, said casing including extensions projecting into said opening to provide metallic bearing surfaces, and a metal clamping device comprising a shank extending through and beyond the opposite ends of said opening, said shank having teeth on one end, a clamping nut carried by said toothed end and adapted to press against one side of said casing, there being a right angularly disposed toothed jaw carried by the opposite end of the shank and disposed in substantial parallelism with an opposite side of said casing, whereby a cable may be clamped between said jaw and said last named side of the casing.

1,681,483. ATTACHMENT FOR SAW-FILING CLAMPS. JACOB KAUTZ, Chicago, Ill. Filed Sept. 20, 1926. Serial No. 136,641. 1 Claim. (Cl. 76—78.)



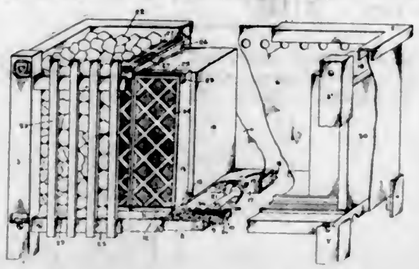
The combination with a saw clamp including spaced brackets having rearwardly extending horizontal portions, a bar connected to said portions, and a body plate having horizontal portions, of a reflector plate supported at its outer end by the horizontal portions of the body plate and its inner end by said bar, said reflector plate being positioned to the rear of a saw plate when said plate is supported by said clamp.

1,681,484. GAS HEATER. WALTER KENNEDY, Cliffside, N. J. Filed Jan. 29, 1925, Serial No. 5,447. Renewed Jan. 16, 1928. 8 Claims. (Cl. 126—92.)



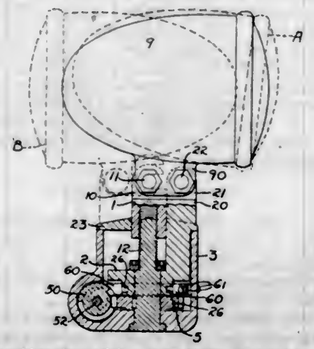
1. In a heater of the class described, an outer open-work container, material simulating fuel within and at the top and front of said container, and a burner at the bottom and behind said material, and radiants behind said material and higher than said burner.

1,681,485. GAS HEATER. WALTER KENNEDY, Cliffside, N. J. Filed Nov. 14, 1925, Serial No. 68,931. Renewed Jan. 16, 1928. 3 Claims. (Cl. 126—92.)



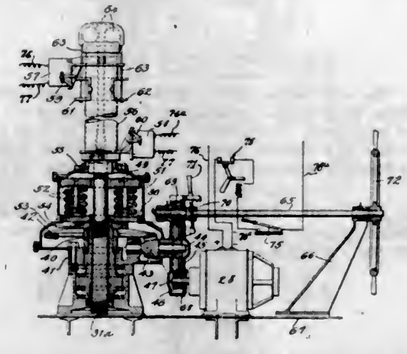
1. In a heater of the class described, several sections, each of which include an insulating member, a radiant in front of the same, a fire-clay top over the same, and passage for the products of combustion through said radiant, a burner beneath said passage, and openings through said top for the passage of said products of combustion, said radiant having a grille-like front, and all of said sections within an outer frame-work closed at the back and ends.

1,681,486. SPOTLIGHT CONTROL. ELVIN L. LARSON, Aberdeen, Wash. Filed June 29, 1927. Serial No. 202,201. 10 Claims. (Cl. 240—61.)



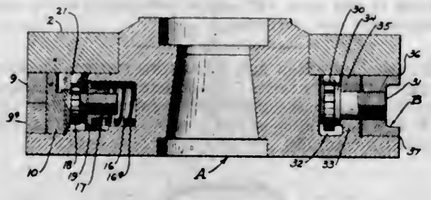
6. In combination with a spot light, two laterally spaced supports pivotally connected thereto, means including a bolt and a nut for moving one of said supports in a vertical direction relative to the other support, means including a turntable journaled on said bolt for rotating both of said supports about a common axis horizontally, means for restraining said turntable from rotation, a gear secured upon said bolt to rotate it, a pinion in mesh therewith, means operable from a distant point to rotate said pinion, and means controlled by said latter means for releasing said restraining means.

1,681,487. APPARATUS FOR CONTROLLING HYDRAULIC GATES. WILLIAM S. LEE, RICHARD PFAEHLER, and DAVID NABOW, Charlotte, N. C. Original application filed Oct. 4, 1924, Serial No. 741,575. Divided and this application filed Apr. 25, 1927. Serial No. 186,544. 5 Claims. (Cl. 137—139.)



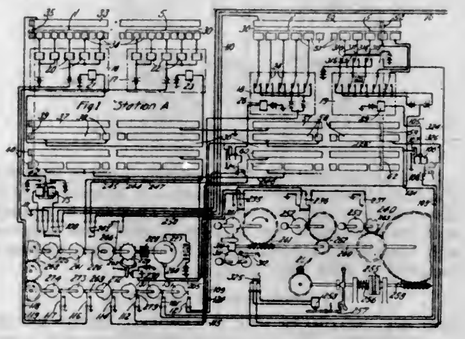
1. In combination with a pivotally mounted hydraulic gate, means to open and close the gate, including a motor with an overload release, and a longitudinally movable screw connected with the gate, a nut thread thereon, a driving connection between the nut and the motor, and means to overload the motor near the end of the closing movement of the gate, including a brake for the nut, and means on the screw for operating the brake as the screw nears the end of its downward movement.

1,681,488. PISTON STRUCTURE. ARTHUR H. LIGHT, Oakland, Calif. Filed July 20, 1926. Serial No. 123,634. 5 Claims. (Cl. 74—108.)



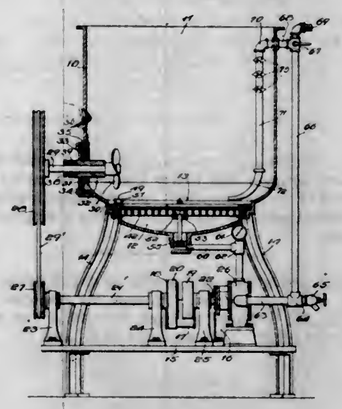
1. A piston of the character described having an annular groove formed in its peripheral surface, a ring consisting of a plurality of segments mounted in the groove, means engageable with each segment to force the segments outwardly in a radial direction, and an adjustable member connected with each segment and adapted to limit the outward radial movement of the segments.

1,681,489. SIGNALING SYSTEM. GEORGE A. LOCKE, Glen Cove, and HAKON H. HAGLUND, New York, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York, and The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed July 21, 1926. Serial No. 123,861. 10 Claims. (Cl. 178—63.)



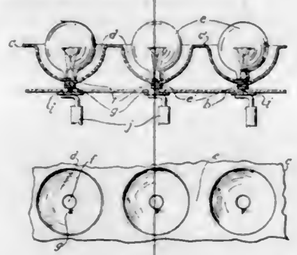
1. In a signaling system, synchronous distributors at respective stations, receiving devices individual to certain elements of the distributor at one station, an operating device different in character from said receiving devices, means for temporarily connecting said operating device to one of said elements, means at a distant station including the corresponding element of the distributor at said distant station for sending an impulse to operate said operating device, and means to disconnect said operating device from said element and restore the normal connection to its respective receiving device.

1,681,490. METHOD OF MAKING SIRUPS. FRANK B. LOMAX, Chicago, Ill. Filed May 3, 1926. Serial No. 106,823. 11 Claims. (Cl. 127—68.)



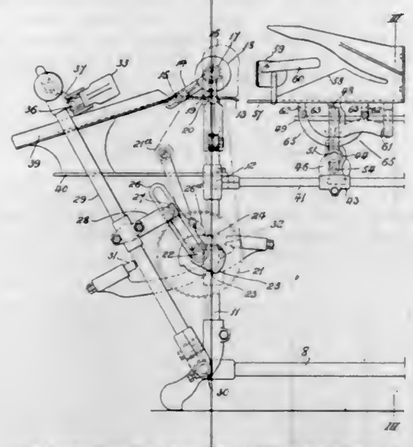
1. The method of forming a filtered solution which consists in enclosing spaces above and below a filtering barrier filling each space with a liquid, placing a solute in the liquid above the filtering barrier, agitating said liquid and solute above the barrier to cause the solute to be dissolved in said liquid, mixing the liquid below the barrier with solution above the barrier and circulating the resultant solution through the barrier to filter the same.

1,681,491. ELECTRIC SIGN. JOHN E. LONG, Multnomah, Oreg. Filed Apr. 20, 1927. Serial No. 185,162. 3 Claims. (Cl. 40—130.)



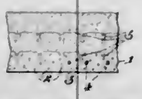
1. In an electric sign, an insulating base, a plurality of electric terminals arranged thereon, a terminal plate in spaced relation with such base having apertures in registry with such terminals, the portions of such plate adjacent such apertures being slit radially to the latter, and bent angularly to form light receiving sockets.

1,681,492. MACHINE FOR WRAPPING ARTICLES OF A UNIFORM OR APPROXIMATELY UNIFORM SIZE AND SHAPE. LEONARD MELLOR, Manchester, England. Filed Mar. 23, 1925, Serial No. 17,463, and in Great Britain Mar. 31, 1924. 5 Claims. (Cl. 93—2.)



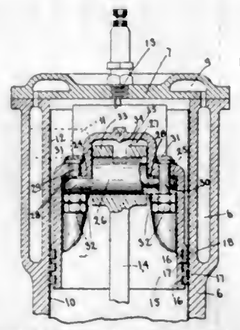
1. In a machine for wrapping articles a support for an article and wrapper and means including a rotary folding arm adapted to substantially encircle said support and article during rotation thereof for folding a wrapper around an article.

1,681,493. PROCESS OF MAKING BUILDING MATERIAL. JOHN J. MILLER, Chicago, Ill., assignor of one-third to Jay D. Miller, Chicago, Ill. Filed Feb. 16, 1925. Serial No. 9,695. 2 Claims. (Cl. 154—45.9.)



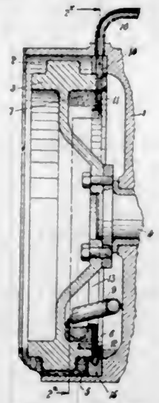
1. The process of making a composition building material which consists in forming a layer of plastic material in a suitable mold, superposing upon said layer a second layer of cementitious material, and then forcing a plurality of spaced prongs through said superposed layers, whereby portions of the upper layer are forced into the lower layer to mechanically interlock the layers.

1,681,494. SINGLE-ACTING ENGINE AND PISTON. WARREN NOBLE, Detroit, Mich., assignor to N. C. L. Engineering Corporation, Providence, R. I., a Corporation of New York. Filed Feb. 13, 1922, Serial No. 536,036. Renewed Nov. 15, 1927. 6 Claims. (Cl. 74—108.)



1. The combination with a cylinder of a piston having opposite slipper surfaces bearing on the walls of the cylinder and spaces intermediate such slipper surfaces adjacent one end thereof adapted to contain fluid confined between the piston and the head of the cylinder.

1,681,495. OIL-DISTRIBUTING DEVICE. WARREN NOBLE, Detroit, Mich. Filed June 27, 1927. Serial No. 201,851. 20 Claims. (Cl. 184—6.)



1. In combination with a centrifuge, a centrifugal pump including a fluid impelling rotor, said rotor being fixed to and rotatable with said centrifuge and fluid directing means leading to said rotor and located remotely from the inner periphery of said centrifuge.

1,681,496. PROCESS FOR REFINING CRUDE ARSENIC TRIOXIDE. CHESTER L. READ, Rahway, N. J., assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 14, 1926. Serial No. 102,090. 8 Claims. (Cl. 23—144.)

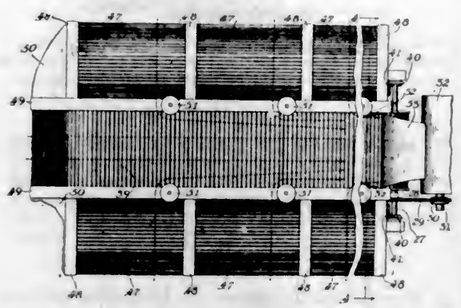


1. A process for refining crude arsenic trioxide comprising volatilizing the crude arsenic trioxide and passing the volatilized crude arsenic trioxide over a substance which will absorb impurities from the said crude arsenic trioxide to produce pure white arsenic.

1,681,497. PROCESS FOR PURIFYING SODIUM STANNATE SOLUTION. CHESTER L. READ, Rahway, and BERRY MARVEL O'HARRA, Westfield, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed July 3, 1926. Serial No. 120,520. 5 Claims. (Cl. 23—53.)

3. In the purification of alkali-metal stannate solutions, the step of removing lead and copper by the action of sodium sulphide, then removing antimony selenium and tellurium by the action of tin in an oxidizable condition and heat, whereby the said lead and copper may be recovered separately from the said antimony selenium and tellurium.

1,681,498. FEEDER FOR FIBER BREAKERS. GEORGE L. RICE and LOUIE E. WHITCOMB, Chicago, Ill., assignors to International Harvester Company, a Corporation of New Jersey. Filed Feb. 23, 1927. Serial No. 170,100. 26 Claims. (Cl. 19—157.)

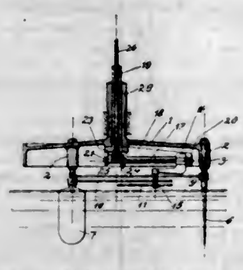


1. In a sliver feeder for breakers, the combination of a frame, a conveyer thereon leading to a breaker, an elevator for raising a sliver from a pile onto the conveyer, said elevator being inclined to support the sliver while elevating the same.

1,681,499. ETCHING SOLUTION. JOHN W. SAUER, Chicago, Ill. Filed Apr. 28, 1927. Serial No. 187,412. 3 Claims. (Cl. 41—42.)

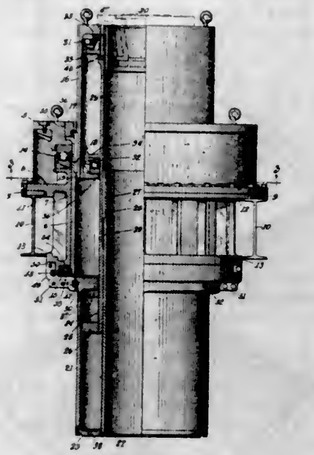
1. A solution of the character described composed of water, copper sulphate, nitric acid, muriatic acid, ferrous sulphate, and sodium chloride.

1,681,500. BLADE WHEEL. ERNST SCHNEIDER, Vienna, Austria. Filed Oct. 18, 1926, Serial No. 142,293, and in Austria Dec. 7, 1925. 21 Claims. (Cl. 170—147.)



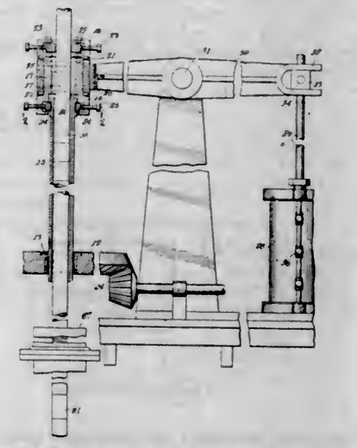
1. The combination with a blade wheel for propellers, turbines, pumps or the like, having a plurality of individually pivoted blades movable relatively thereto, of guiding mechanism connected to each of said blades, and control means for moving said blades relatively to each other operatively connected to said guiding mechanism and adapted, during the rotation of said wheel, to maintain the intersection of the radius vectors, erected perpendicular to the blades at their pivots, at a point within the circular path of the pivotal points of said blades and on a line passing through the center of said wheel and during normal operation under load substantially perpendicular to the line of relative translatory movement between said wheel and the surrounding medium.

1,681,501. WELL DRILLING. WALDO SHELDON, Greenwich, Conn. Filed Sept. 24, 1924. Serial No. 739,495. 41 Claims. (Cl. 255—22.)



2. In a well drilling apparatus, a rotary table, a drive sleeve slidingly keyed in said table, an annular power cylinder, an annular piston therein for raising and lowering said drive sleeve, said power cylinder being insertible into and withdrawable from said rotary table, a bearing for the rotary table, the annular power cylinder having a detachable connection with and supported from said bearing.

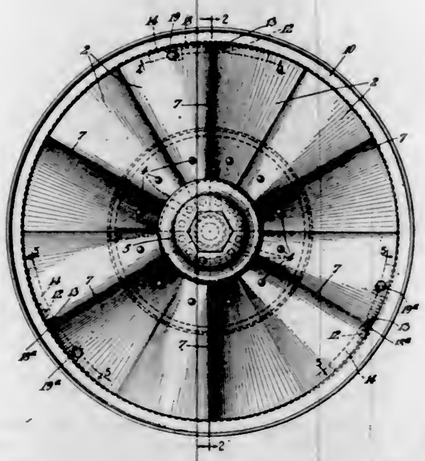
1,681,502. WELL-DRILLING APPARATUS. WALDO SHELDON, South Norwalk, Conn. Filed Oct. 27, 1925. Serial No. 65,109. 13 Claims. (Cl. 255—22.)



1. In well drilling apparatus, a drill stem chuck, a rotary table carrying a removable drive bushing and a hollow removable quill having a sliding driven fit in said removable

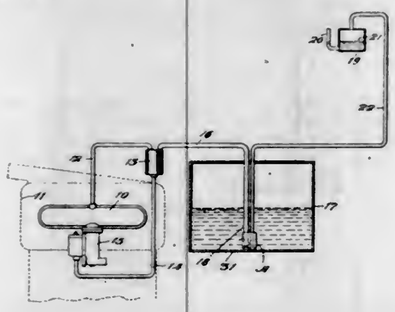
drive bushing and detachably connected with the chuck, said chuck having means for adjustable driving connection with a drill stem projecting through the quill and readily disconnectible means for applying accurately regulatable lifting or lowering force to said removable chuck carrying quill and a drill pipe extending down through the chuck and quill and held by the adjustable driving means of the chuck.

1,681,503. DISK-WHEEL AND DEMOUNTABLE RIM CONSTRUCTION. ROBERT W. SIMPSON, New York, N. Y., assignor of one-half to Evina A. Kemp, New York, N. Y. Filed July 27, 1926. Serial No. 125,150. 7 Claims. (Cl. 301—17.)



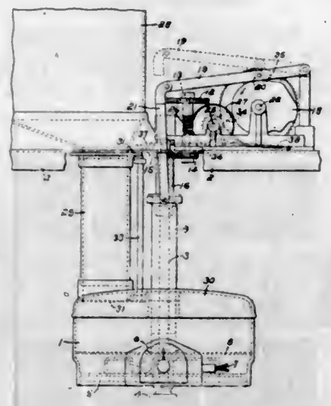
4. A vehicle wheel comprising a rim, locking pins projecting inwardly therefrom, a disk enclosed by said rim, said disk having peripheral slots therein adapted to permit the pins to pass through from one side of the disk to the other, and means for moving the rim angularly with respect to the disk to lock said pins out of alinement with said slots.

1,681,504. LIQUID-LEVEL GAUGE. FRANK B. SMITHE, New York, N. Y., assignor to F. L. Smithe Machine Co., Inc., New York, N. Y., a Corporation of New York. Filed July 28, 1925. Serial No. 46,530. 10 Claims. (Cl. 73—54.)



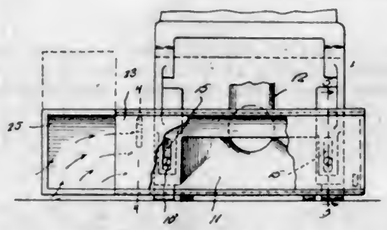
1. In a tank instrument for liquid level gauges, a suction pipe, a gauge pipe, a block connected to said pipes, said block having a passage therein which communicates with the suction pipe and is adapted to open into the tank at the lower side of the block when the latter is in operative position in the tank, and a second downwardly extending passage which communicates with the gauge pipe and with the first mentioned passage, the passages being so interrelated that the application of suction to the suction pipe will withdraw liquid from the gauge pipe.

1,681,505. NUT-COOKING MACHINE. OTTO C. STROTH and PAUL R. LEMPKE, Dover, N. H. Filed Apr. 29, 1927. Serial No. 187,686. 4 Claims. (Cl. 53—7.)



1. In a nut cooking machine, the combination with nut-cooking, nut-feeding and nut delivery means, of a shaft, a disk secured thereto adapted to receive the nuts to be cooked from the feeding means and to support them while subject to the cooking means, means to rotate said shaft, and time-controlled means for raising said shaft to deliver the nuts from the disk to the delivery means.

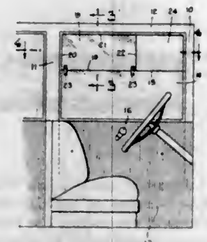
1,681,506. DUSTPAN FOR FLOOR-SURFACING MACHINES. IRA V. SPURLIN, Hamilton, Ohio. Filed Oct. 25, 1926. Serial No. 144,098. 7 Claims. (Cl. 51—176.)



1. In a dust pan for floor surfacing machines, a pan unit constructed for attachment to the machine frame rearwardly of the sanding drum, a cover plate for said pan, and a housing at one end of the plate open at its front and inner end, said housing extending beyond the end of said sanding drum and having communication with said dust pan in it when the cover plate is associated therewith.

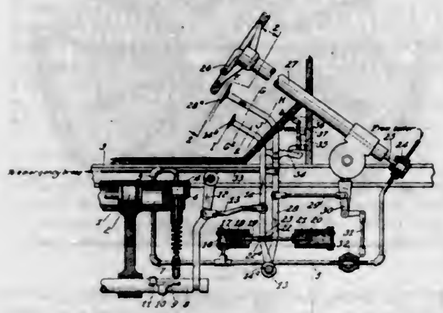
1,681,507. VEHICLE WINDOW. REINHOLD H. WAPPLER, Yonkers, N. Y. Filed Jan. 6, 1926. Serial No. 79,589. 5 Claims. (Cl. 296—44.)

1. In a windowed vehicle of the type which normally deflects air outwardly relative to the window during the movement of the vehicle and wherein a deflected air stream normally returns to the plane of the window, an openable window closure so constructed and arranged that when it is completely closed it will close up all but the upper



forward window portion, thereby leaving an opening which lies forwardly of the point at which the air stream returns to the plane of the window.

1,681,508. OPERATING CONTROL MEANS FOR AUTOMOTIVE STEAM POWER PLANTS. RUSSELL R. WATERMAN, Long Beach, Calif., assignor to Farmers' National Bank, trustee, Greenville, Ohio, a Corporation of Ohio. Filed May 17, 1926. Serial No. 109,568. 11 Claims. (Cl. 192—3.)

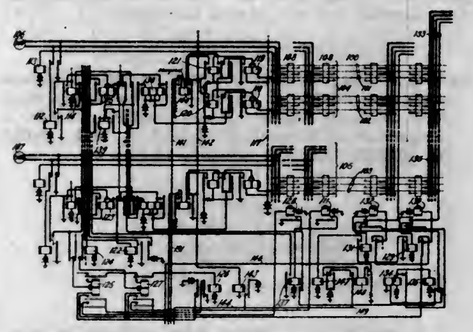


2. In a means of the class described, the combination with a steam engine, a steamline connected therewith and a brake means, of a throttle positioned in said steamline, a foot pedal connected with said throttle and said brake means for operating the former or both the former and the latter, and a cut-off valve operating pedal for controlling the steam cut-off valve to said steam engine, said operating pedal being positioned in association with said first mentioned foot pedal whereby said operating pedal may be simultaneously operated with the operation of the first mentioned foot pedal.

1,681,509. CADMIUM PLATING. LEON R. WESTBROOK, Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 23, 1926. Serial No. 150,376. 16 Claims. (Cl. 204—1.)

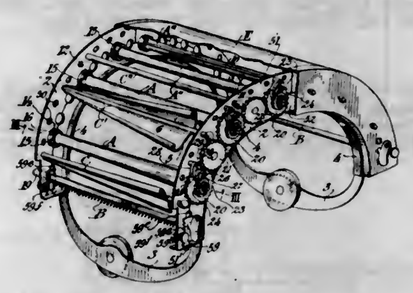
15. A cadmium plating composition comprising about 50 parts of cadmium hydroxide, about 0.18 part of nickel as a compound of nickel which is soluble in an aqueous alkali metal cyanide solution, about 88 parts of sodium sulfate and about 11.5 parts of gulac.

1,681,510. TELEPHONE SYSTEM. SAMUEL B. WILLIAMS, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 22, 1926. Serial No. 143,352. 12 Claims. (Cl. 179—9.)



1. In a telephone system, a plurality of connective elements divided into groups, means to operate said elements, means common to said groups of elements for recording the simultaneous operation of all elements of a group, and means for selectively associating the recording means with said groups.

1,681,511. HAIR WAVING OR CURLING DEVICE. SUMTER B. BATTEY, New York, N. Y. Filed Nov. 4, 1926. Serial No. 146,201. 28 Claims. (Cl. 132—31.)



1. A hair waving or curling device comprising a frame, a rotatable form supported thereby, said form being adapted to wind up and tension a strand of hair, means for locking the form against rotation relative to the frame, and supporting means carried by the frame and engaging a strand of hair, said supporting means being adapted to sustain the tensile stress applied to the hair by said rotatable form whereby the hair may be tensioned without imparting pull to the scalp.

1,681,512. METHOD OF MANUFACTURING KNITTING NEEDLES. ARTHUR J. A. BEYER, Philadelphia, Pa., assignor to James H. Bell, Philadelphia, Pa. Filed July 5, 1923. Serial No. 649,532. 19 Claims. (Cl. 163—5.)



1. The method of making a knitting-machine needle with integral actuating-butt and hook portions, which consists in folding an elongated sheet metal blank having opposed

symmetrically configured edges to channel formation, and clinching the end of said blank remote from the butt to form a substantially solid section hook portion.

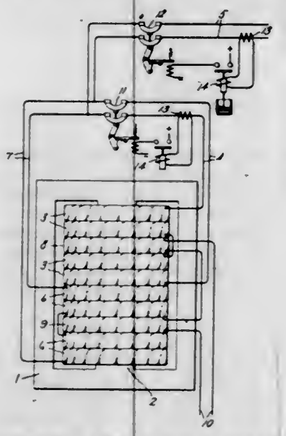
14. As an article of manufacture, a knitting needle having integrally formed butt and hook portions made of longitudinally channeled section with the end adjoining the latch solidified and bent to hook formation.

1,681,513. COMPOSITE MANIFOLDING STRIP. ARCHIE M. BOVIER, Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario. Filed Sept. 9, 1924. Serial No. 736,686. 5 Claims. (Cl. 282—12.)



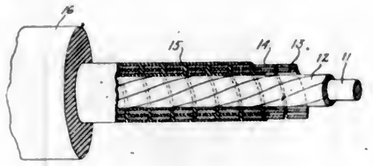
1. In combination, a traveler record strip having severance lines dividing it into a succession adjacent attached traveler record leaves and an auxiliary record leaf for each of said traveler leaves, said auxiliary leaves lapping the respective traveler leaves and forming therewith respectively adjacent attached sets of traveler leaves, each auxiliary record leaf being free from attachment to the respective lapping traveler leaf and having attachment to an adjacent advance traveler record leaf and extending rearwardly from its attachment across the adjacent line of severance, each of said auxiliary record leaves having also a line of severance parallel and substantially contiguous to said first mentioned severance line whereby a traveler record leaf and its auxiliary leaf may be simultaneously severed along said contiguous severance lines, thereby freeing the auxiliary leaf from the traveler strip.

1,681,514. PROTECTIVE APPARATUS. FREDERICK F. BRAND, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed June 9, 1926. Serial No. 114,814. 6 Claims. (Cl. 175—294.)



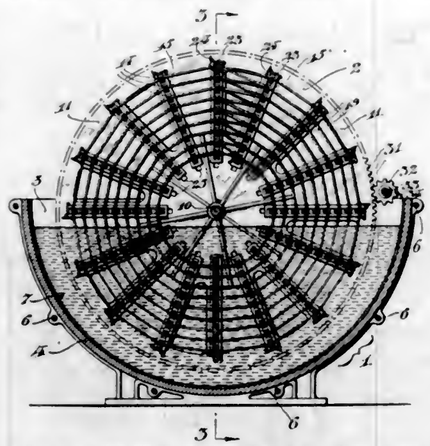
1. The combination with electrical apparatus having a magnetic core, and a winding on said core formed in sections connected in parallel to an outside circuit, of means responsive to overload condition of the apparatus for disconnecting one only of said winding sections, said winding sections being inductively related in said apparatus in such manner that the impedance of the apparatus is substantially increased by said disconnecting of one winding section.

1,681,515. SUBMARINE CABLE. OLIVER E. BUCKLEY, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 31, 1925. Serial No. 47,245. 5 Claims. (Cl. 178—45.)



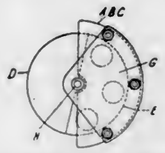
1. An electrical conductor comprising a conducting member and a plurality of layers of loading material having interstices applied to said conductor, the corresponding interstices of all of said layers being in alignment, and the whole loaded conductor impregnated with a compound which is semi-fluid under seat bottom conditions.

1,681,516. WARP-DYEING MACHINE. EDWIN E. CARLSON and LAWRENCE A. STEAD, Chester, Pa. Filed July 15, 1926. Serial No. 122,526. 16 Claims. (Cl. 8—19.)



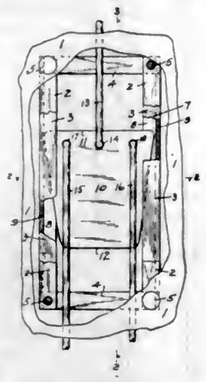
15. In a dyeing machine comprising a vat and a reel rotatable therein, radially disposed rows of yarn supporting bars on said reel, a stationary cam on said reel, and cam followers on each row of supporting bars adapted to successively engage said cam to move said supporting bars out of contact with said yarn.

1,681,517. MEANS FOR DAMPING OSCILLATING OR ALTERNATING CURRENT CIRCUITS. NEWSOME HENRY CLOUGH, London, England, assignor to Radio Corporation of America, a Corporation of Delaware. Filed June 16, 1926, Serial No. 116,309, and in Great Britain July 20, 1925. 8 Claims. (Cl. 250—16.)



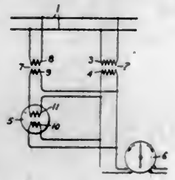
1. A damping means comprising a condenser, variable means for absorbing a portion of the current passing through the said condenser, and compensating means adapted to maintain constant capacity in said condenser.

1,681,518. AUTOMOBILE SAFETY BRAKE EQUALIZER. OTTO L. COMPTON, Olympia, Wash. Filed Mar. 31, 1927. Serial No. 179,846. 1 Claim. (Cl. 188—204.)



In an equalizing apparatus, the combination of fixed parallel guiding means; a symmetrical trapezoidal equalizer plate mounted in said guiding means and free to move longitudinally therein; a central brake rod attached to the equalizer plate on its central axis and near its longer parallel edge; two lateral brake rods attached to said equalizer plate on each side of said central brake rod; and limiting means, comprising a part of said parallel guiding means, and permitting a free turning movement of the equalizer plate about said central brake rod connection in the normal operation of the brakes, but preventing an abnormal turning movement thereof by the engagement of one of the corners of the shorter parallel side of said equalizer plate therewith, thereby providing a lateral component of the braking forces whereby the force applied to the central brake rod is transmitted to one of the lateral brake rods when the other brake rod is inactive without permitting said remaining brake rod to be materially slackened.

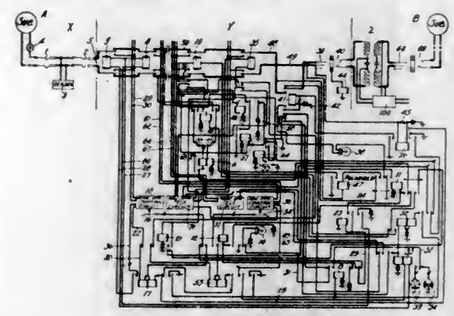
1,681,519. REGULATING SYSTEM. JAMES R. CRAIGHEAD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 2, 1926. Serial No. 126,382. 10 Claims. (Cl. 171—119.)



1. In combination, an alternating current supply circuit, a transformer connected to said supply circuit, a load circuit comprising a plurality of branch circuits connected in parallel to be energized from said transformer, and means for introducing into one of said branch circuits an electromotive force proportional to the difference between the supply circuit voltage, divided by the transformer turn ratio, and the load circuit voltage.

1,681,520. TRUNK CIRCUITS. JACK F. DAHL, Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 31, 1927. Serial No. 195,226. 9 Claims. (Cl. 179—27.)

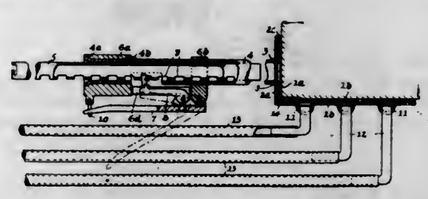
1. In a telephone system, a plurality of operators' positions, a trunk circuit incoming to one of said positions and terminating in a plug, a trunk signal, means at each operator's position operable by the operator thereat in response to said signal, a telephone set at each operator's position, and means allotted to each operator's position responsive to the operation of the responsive means of such position and to the insertion of said plug into an outgoing line jack for disconnecting the talking conductors of said trunk circuit and for connecting said plug to the telephone set of such operator's position.



1,681,521. PROCESS OF CLEANING AND BURNISHING METALLIC POWDERS. JOHN A. DALY, New Rochelle, N. Y. Filed Aug. 2, 1926. Serial No. 126,748. 4 Claims. (Cl. 51—278.)

1. The process of burnishing metals in a state of fine subdivision which comprises commingling the particles of metal with harder finely divided material and agitating the commingled substance.

1,681,522. ADJUSTABLE CURTAIN SUPPORT. WALTER DAMM, Paterson, N. J., assignor of one-half to Joel E. Crandall, Paterson, N. J. Filed Aug. 7, 1926. Serial No. 127,735. 3 Claims. (Cl. 156—23.)

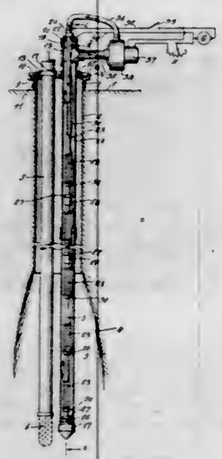


1. In a curtain-supporting means, a telescopic support adapted on telescopic adjustment thereof to bear against oppositely facing surfaces and thus be supported and including a pair of telescopically movable members, a lever pivoted to one member to move in a plane extending lengthwise of the line in which said members are telescopically movable, and a pawl pivoted to the lever to move also in a plane extending lengthwise of said line and engageable with the other member to lock said members against telescopic collapse.

1,681,523. APPARATUS FOR HEATING OIL WELLS. PATRICK V. DOWNEY and CLIFFORD H. WENDROFF, Denver, Colo. Filed Mar. 26, 1927. Serial No. 178,679. 5 Claims. (Cl. 219—33.)

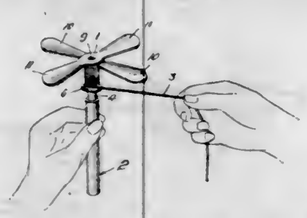
1. An apparatus for heating oil wells, comprising, in combination, a pipe adapted to extend from the top of the well to the bottom thereof, a pipe of smaller diameter located within the first pipe and extending substantially

from one end thereof to the other, a plurality of electric heater elements secured to the smaller pipe and spaced from each other, means for conducting an electric current to the heating elements, and means for causing a



current of air to flow downwardly through the smaller pipe and upwardly within the larger pipe whereby the electric heaters will be subjected to a flow of air that tends to distribute the heat.

1,681,524. FLYING TOP. JOSEPH DUCHESNEAU, Leominster, Mass., assignor, by mesne assignments, to The De-Lite-Us Spring Clasp Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1927. Serial No. 165,524. 2 Claims. (Cl. 46—51.)

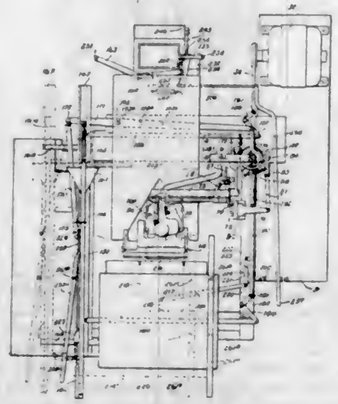


1. In a device of the class described, a stick having a cylindrical end adapted to receive a cylinder, propeller blades rigidly secured to a cylinder by an eyelet so that when a string is withdrawn from the string receiving portion, with a sudden pull, the cylinder, and the parts rigidly connected thereto, will fly into the air.

1,681,525. PRINTING MACHINE. JOSEPH S. DUNCAN, Chicago, Ill., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill., a Corporation of Delaware. Filed May 10, 1924. Serial No. 712,270. 77 Claims. (Cl. 101—65.)

25. In a printing machine, a platen, a plurality of printing devices, means for presenting each printing device to the platen, blank feeding mechanism, a numbering machine, and means controlled by the printing devices for bringing the numbering machine into and out of a printing position.

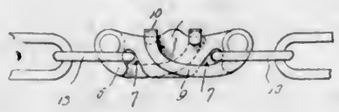
34. In a printing machine, a platen, a plurality of printing devices, means for presenting each printing device to printing position in respect to the platen a plurality of times, means for taking an impression from said printing device on a blank, blank feeding mechanism, operating automatically to advance the blank in the machine, blank shifting mechanism, a mask, and means for bringing the mask into and out of a position wherein it covers a portion of a printing device presented to the platen during a printing operation.



48. In a printing machine, a platen, means for imparting a step-by-step movement to a blank to present the blank to the platen a plurality of times, means for reciprocating the blank, means cooperating with the platen to print on said blank, a mask, and means for reciprocating the mask to expose different portions of said blank.

71. In a printing machine, means for holding a sheet of paper entirely flat in the machine, a plurality of printing devices, means for advancing the sheet, means for shifting the sheet laterally, and means for taking impressions of the printing devices upon the sheet.

1,681,526. CHAIN FASTENER. EMANUEL ECKROAT, Shenandoah, Pa. Filed July 27, 1927. Serial No. 208,867. 3 Claims. (Cl. 24—69.)



1. In a device of the class described, a plate having a plurality of notches formed along one edge thereof, means pivotally carried by the plate and adapted to be arranged in position with respect to said notches whereby to close the entrance to the same, and plate engaging means carried by the closure means adapted to engage the opposite edge thereof for retaining the parts in closed position.

1,681,527. DISPLAY DEVICE. GEORGE F. EGAN, Jersey City, N. J. Original application filed Aug. 3, 1925, Serial No. 47,866. Divided and this application filed Apr. 8, 1926. Serial No. 100,618. 2 Claims. (Cl. 40—149.)

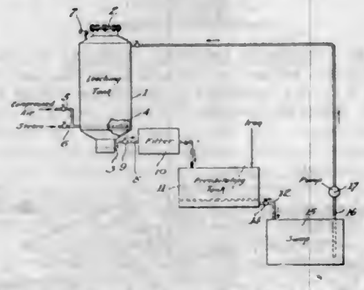
1. A display device comprising a shet body bent transversely to provide a pair of wings extending at acute angles

to one another and adapted to be reversably stood on either end with its angled connecting portion extending substantially vertically, said pair of wings having pairs of mating slots therein, one pair of slots opening through one end of the device and the other pair of slots opening through the



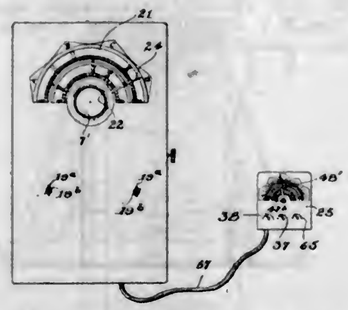
other end of the device, said slots being inclined to the vertical in the set-up position of the device with the open mouths of the slots in approximate central parts of the respective wing edges and with the inner parts of the slots in each wing remote from one another.

1,681,528. PROCESS FOR RECOVERING COPPER FROM ITS ORES. ALEXANDER ELLIOTT, Los Angeles, Calif. Filed Mar. 17, 1924, Serial No. 699,777. Renewed June 23, 1927. 4 Claims. (Cl. 75—18.)



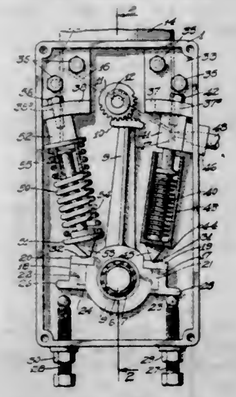
1. The process of extracting copper from its ores which comprises subjecting the ore to the action of a solution of ferrous sulphate in the presence of air distributed in contact with such solution at a pressure in excess of atmospheric pressure and maintaining a pressure in excess of atmospheric pressure throughout the body of solution and ore mixed therewith.

1,681,529. RADIO TUNING MECHANISM. GEORGE R. FREMONT, Richmond, Va. Filed Aug. 18, 1925. Serial No. 51,275. 7 Claims. (Cl. 250—40.)



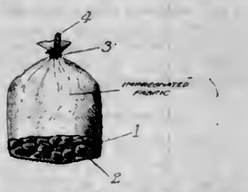
6. A remote control attachment for radio tuning elements comprising a motor operated drive element to be fixed upon the shaft of such elements, a portable control unit including a motor driven rotatable element, electric circuits connecting such motors to operate in unison, switches controlling the circuits, electrically operated brake element adapted to engage the first mentioned drive element when the last mentioned drive element has rotated a predetermined distance.

1,681,530. AUTOMATIC FUEL-REGULATING DEVICE FOR STEAM-POWER PLANTS. CHARLES A. FRENCH and RUSSELL R. WATERMAN, Long Beach, Calif., assignors to Farmers National Bank, trustee, Greenville, Ohio, a Corporation of Ohio. Filed Nov. 25, 1924. Serial No. 752,274. 6 Claims. (Cl. 236—26.)



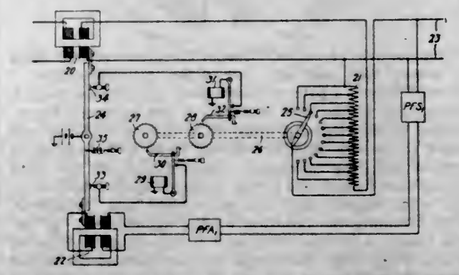
1. In a regulating device of the character as disclosed, a substantially upright balancing arm, a valve, gear and rack means whereby said valve is opened or closed by said balancing arm, pressure operated means acting upon said arm for swinging said arm to close said valve, and a spring acting upon said arm tending to open said valve.

1,681,531. MEANS FOR DEODORIZING COOKING. THOMAS A. GANNON, Chicago, Ill. Filed Dec. 30, 1926. Serial No. 157,961. 2 Claims. (Cl. 99—2.)



1. As an article of manufacture, a deodorizing packet comprising a mass of carbon having high gas adsorbing capacity, and a fabric container investing the same, the fabric of said container being impregnated with a water-soluble preservative of vegetable colors.

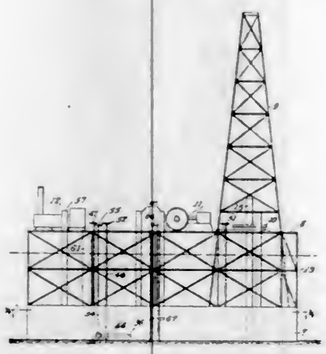
1,681,532. TRANSMISSION CONTROL. FRED G. GARDNER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 2, 1923. Serial No. 648,868. 10 Claims. (Cl. 179—171.)



1. A translating device having input and output circuits, an incoming circuit, an inductive coupling between the

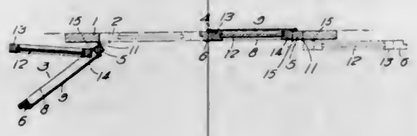
incoming circuit and the input circuit, and means connected to the output circuit to regulate the inductive relation of said coupling between the incoming circuit and the input circuit.

1,681,533. SUBMARINE DRILL. LOUIS GILIASSO, Philadelphia, Pa. Filed Jan. 13, 1928. Serial No. 246,627. 15 Claims. (Cl. 255—1.)



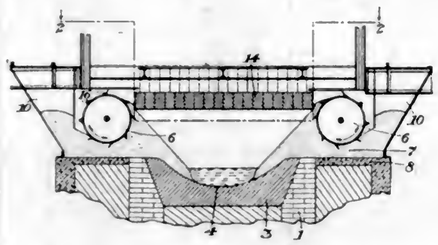
1. In submarine drilling, a barge, means for sinking and for raising the same to enable the seating of the barge on "bottom" for drilling purposes and removal by floating when drilling is completed, a working platform supported in elevated relation on the barge to stand above water when the barge is on "bottom" and a well drilling machine on said elevated platform operative to drive a well when the barge is stationed on "bottom", said barge having buoyancy when unwatered to float the entire load of the elevated working platform and drilling equipment carried thereby.

1,681,534. COMBINATION BLIND AND SCREEN. JOHN W. GREEN, Portsmouth, Va. Filed May 14, 1923. Serial No. 30,324. 1 Claim. (Cl. 20—58.)



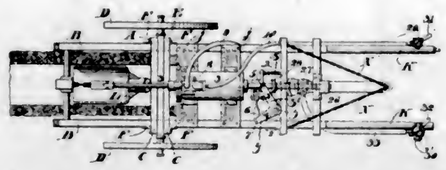
As an article of manufacture, a complete colonial blind and screen unit assembly, comprising, in combination, a casement frame, a pair of rectangular open frames hinged, respectively, to the side members of the casement frame, colonial blinds having a flush fit in the open frames and hinged to the side members thereof so as to be capable of outward swinging movement independently of the open frames, said frames and blinds being of equal thickness so that when closed they are in straight line formation, strips bounding the openings on the opposite side of the open frames, and screens secured to the strips and spaced thereby away from the frames so as to permit the stated independent action of the blinds without the hazard of the corners thereof chafing the screens.

1,681,535. APPARATUS FOR SMELTING. HOWARD W. HALL, Woodbridge, N. J., assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed July 30, 1925. Serial No. 46,947. 6 Claims. (Cl. 266—24.)



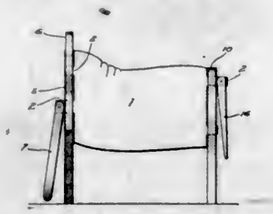
1. In a melting furnace having side walls and a roof, and an opening therein, means for feeding a charge to the furnace inwardly and upwardly through said opening and for keeping it piled above said opening while it is moving for forming a closure therefor.

1,681,536. TRENCH DIGGER. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 2, 1927. Serial No. 210,185. 5 Claims. (Cl. 214—132.)



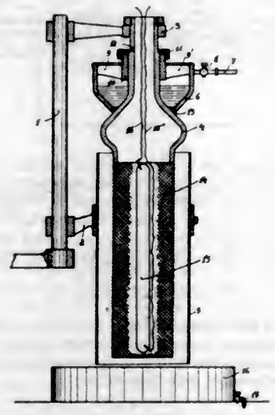
1. An excavating machine comprising a frame, a shovel suspended from said frame, fluid actuated percussive means for driving said shovel forward, means for raising and moving said shovel forwardly said means including a rigid arm and a flexible member, an automatic means to tilt and dump said shovel upon elevation to a predetermined height.

1,681,537. TOY ANIMAL. HELEN SARGENT HITCHCOCK, New York, N. Y. Filed Aug. 28, 1925. Serial No. 53,066. 1 Claim. (Cl. 46—40.)



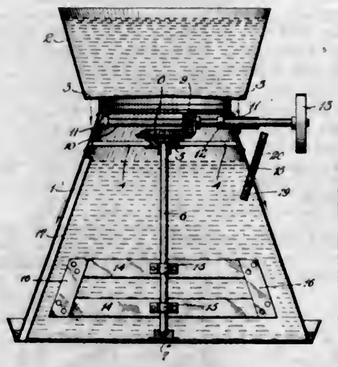
A toy elephant having a vertically disposed flat torso member and vertically disposed hind and fore-quarters substantially at right angles thereto, tongues projecting from said member into and through openings in said respective fore-quarters and hind-quarters, a trunk member pivotally articulated to a tongue piercing said fore-quarter and a tail piece articulated to a tongue penetrating said hind-quarters.

1,681,538. TREATMENT OF LIQUIDS SUCH AS MILK WITH RAYS, MORE PARTICULARLY WITH ULTRA-VIOLET RAYS. FRANZ HOFFMANN, Vienna, Austria. Filed Nov. 28, 1927, Serial No. 236,354, and in Austria Oct. 30, 1926. 4 Claims. (Cl. 99—15.)



3. Device for irradiating liquids more especially with ultra-violet rays, comprising in combination a hollow bulb-shaped body, a cylindrical grid forming an extension of the latter, a source of light rays arranged within the grid, wires for the supply of electric current passing through the said bulb-shaped body and being connected with the said source of light rays, and a vertically adjustable trough surrounding the bulb-shaped body and open at its lower end, for the purpose specified.

1,681,539. MILK COOLER. WILLIAM LELAND HOLT, Scarboro, Me. Filed July 20, 1927. Serial No. 207,203. 1 Claim. (Cl. 31—4.)

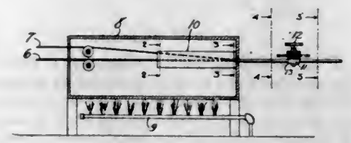


In a milk cooler a truncated cone shaped ice and water chamber, a milk receiving receptacle mounted on said chamber and having milk exit ports in the bottom thereof to permit the milk to flow onto the exterior face of said chamber, a power operated agitator mounted within and near the bottom of said chamber, an overflow port at the predetermined water level discharging outside of the chamber, a thermometer casing extending into said chamber to a point below the predetermined water level and provided with a perforated end portion to permit entrance of the water in the chamber, the outer end of the casing extending above the water level of the chamber, and a thermometer secured in said casing.

1,681,540. PACKING MATERIAL. OLIVER T. HUNGERFORD, Belleville, N. J. Filed Apr. 12, 1927. Serial No. 183,246. 3 Claims. (Cl. 19—146.)

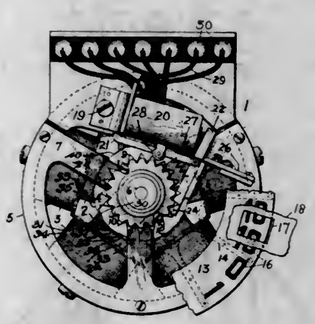
1. A packing material consisting of fibrous material recovered from flax straw and having mixed therewith a percentage of harder, flexible, resilient substance, substantially as set forth.

1,681,541. ELECTRICAL CONDUCTOR. JOHN JOHNSTON, New Haven, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 5, 1924. Serial No. 711,039. 6 Claims. (Cl. 173—264.)



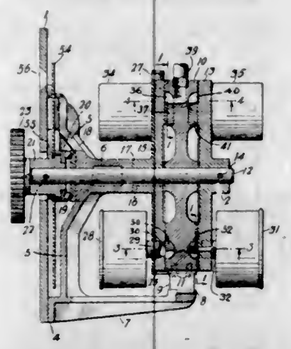
1. The method of insulating a conductor which consists in vulcanizing insulating material, forming a tape of said insulating material, applying said tape to closely surround said conductor, and joining the edges of said tape to provide a continuous sheath of insulating material.

1,681,542. REPEATER-MOTOR INDICATOR. RALPH E. KORTEPETER, Brooklyn, and ADOLF AMUNDSEN, Glendale, N. Y., assignors to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 1, 1921. Serial No. 519,058. 10 Claims. (Cl. 177—327.)



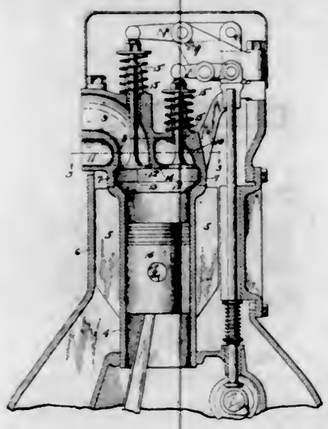
1. In a step by step repeater motor, a plurality of field poles, an armature associated therewith, a star wheel fixedly connected to said armature, a second star wheel connected with said armature, a detent normally engaging said first mentioned wheel to desynchronize the armature with respect to said field poles, means for disengaging said detent when the motor is energized, a second detent normally disengaged and means for causing said second detent to yieldingly engage said second wheel to synchronize the same with the step positions of said armature when the motor is energized.

1,681,543. ACOUSTICAL DEVICE. JOHN J. KUHN, Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 24, 1919. Serial No. 306,449. 4 Claims. (Cl. 181—26.)



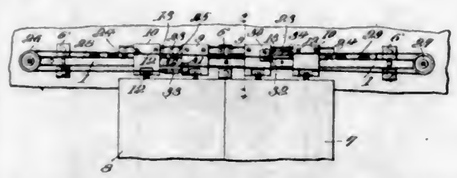
2. In an acoustical device, a framework, a shaft rotatably supported thereby, a body member rigidly supported by the framework and having a circular groove in each of two surfaces, a plate member carried by the shaft in close relation to each such surface of the body member, means rendering each circular groove discontinuous, and a lug attached to each plate member slidably engaging the groove of the cooperating surface of the body member, said lugs cooperating with the above mentioned means for inversely varying the lengths of portions of the grooves interposed therebetween.

1,681,544. INTERNAL-COMBUSTION ENGINE. ROBERT B. KUHN, Canton, Ohio, assignor to Eunice H. Kuhn, Canton, Ohio. Filed Aug. 17, 1922. Serial No. 582,472. 2 Claims. (Cl. 123—177.)



1. An internal combustion engine chamber having a head with a tubular extension forming an exhaust passage and a dome extension forming an inlet passage entirely surrounding the tubular exhaust passage at the mouth thereof, valves and seats therefor in the mouths of the respective passages, the inlet passage being arranged to admit gases for cooling the head of the cylinder and the valves and seats therein, said mouths being located side by side in the head, and the tubular exhaust passage extending through and above the dome.

1,681,545. ELEVATOR-DOOR-OPERATING MECHANISM. PHILIP LANG, Cedar Falls, Iowa, assignor to Wagner Manufacturing Company, a Corporation of Iowa. Filed Aug. 1, 1922. Serial No. 579,001. 5 Claims. (Cl. 268—51.)



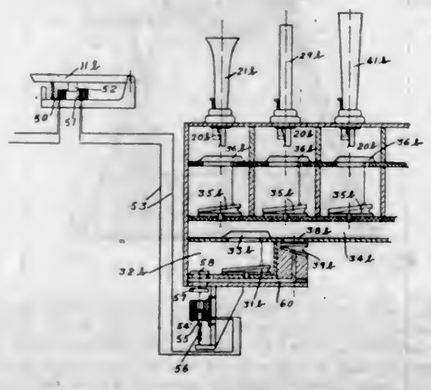
1. The combination with two sets of sliding doors, a ball carrying plate for each door, cables connected to the outer door of one set and extending in opposite directions around pulleys and having their opposite ends having a spring connection with the outer door of the other set and operating means carried by the ball carrying plates of the outer door of each set.

1,681,546. PRODUCTION OF SOUNDS. MAX MAAG, Schwamendingen, near Zurich, Switzerland. Filed Dec. 30, 1922, Serial No. 610,076, and in Germany Dec. 31, 1921. 6 Claims. (Cl. 84—83.)



3. A sound producing device comprising a sounding tube having a sounding end and a slot-shaped air pulsations producing end, a figurate band movable to co-operate with the latter to close the same more or less, an air pipe connected with the said tube and having a slot-shaped end opening thereinto adjacent to the aforesaid slot-shaped end thereof, a device in connection with said air pipe and adapted to cause a current of air to move therethrough toward the pulsations producing end, means permitting said current to escape simultaneously through said tone producing and pulsation producing end, and means for controlling the operation of the said device, essentially as and for the purpose set forth.

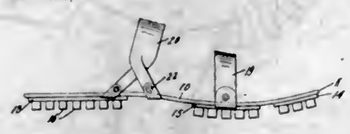
1,681,547. ORGAN ACTION. MAX MAAG, Schwamendingen, Switzerland. Filed Aug. 17, 1923. Serial No. 657,910. 16 Claims. (Cl. 84—335.)



1. A pneumatic action for organs comprising in combination, a plurality of keys, a plurality of tone-producers, means to supply air under pressure to said tone-producers,

pallets in said air supplying means, a pallet actuated by said key to vary the pressure within individual wind chests, bellows, conduits connecing said wind chests with their bellows, means connecting said bellows to their respective pallets whereby varying the positions of said keys individually varies the positions of the bellows and said pallets and the pressure of air supplied to said tone-producers varies directly with the positions of said keys.

1,681,548. SANDAL. JACOB MARCUS, Brooklyn, N. Y. Filed Jan. 11, 1928. Serial No. 245,935. 1 Claim. (Cl. 36—63.)



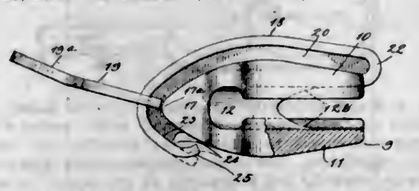
A sandal comprising a metallic sole plate provided all around its edges with a bead, said bead being disposed on the underface of said plate, a strengthening wire disposed within said bead extending all around the edge of the sole plate, a rubber block secured to the underface of the heel portion of said sole plate, a rubber block fastened to the underface of the toe portion of said sole plate, a rubber block attached to the underface of the ball portion of said sole plate, all of said rubber blocks being provided with protuberances on their underfaces to provide anti-slipping devices, and straps secured to said sole plate for holding the sandal to the foot of the wearer.

1,681,549. COUPLING MEMBER FOR ATTACHING DEVICES. DAVIS MARINSKY, Bronx, N. Y. Filed Nov. 17, 1925, Serial No. 69,582. Renewed Jan. 14, 1928. 8 Claims. (Cl. 24—205.)



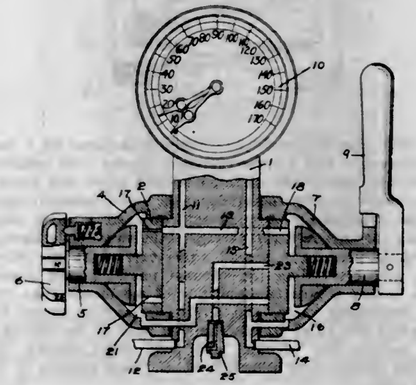
1. A coupling device of the class described comprising a substantially V-shaped unitary die-cast body having upper and lower walls, the outer faces of which are flat and terminate in curved edge portions at the sides of the body, channels of substantially circular cross sectional form arranged in said body and opening through the opposite ends thereof, the channels of said body intersecting at the contracted end thereof, a partition wall separating said channels at the flared end of said body, said channels opening outwardly through the opposite sides of the body and said partition wall extending in the direction of the contracted end of the body in independent ribs on the inner face of the upper and lower walls of the body, said ribs terminating inwardly of and adjacent the contracted end thereof.

1,681,550. COUPLING MEMBER FOR SEPARABLE FASTENERS. DAVIS MARINSKY, New York, N. Y. Filed Mar. 15, 1926, Serial No. 94,711. Renewed June 23, 1928. 12 Claims. (Cl. 24—205.)



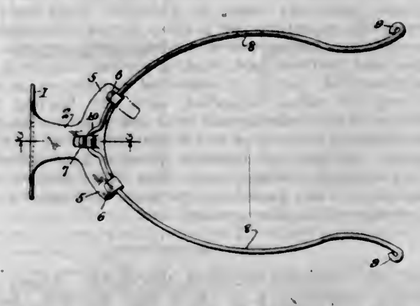
1. A coupling member for separable fasteners comprising a unitary body consisting of substantially similar side portions united by a partition wall adjacent one end of the coupling member, channels formed between said side portions, said channels intersecting at one end of the coupling member and diverging at the other end thereof, said partition wall being tapered in the direction of the intersections of said channels, said channels opening through apertures at the opposite sides of the coupling member and formed between the side portions thereof, said channels being substantially circular in form in cross section, a rib integral with one side face of said coupling member and extending centrally and longitudinally thereof, and said rib having channels in the opposite faces thereof.

1,681,551. LEAKAGE-TESTING DEVICE. RAYMOND E. MILLER, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Sept. 30, 1927. Serial No. 222,998. 9 Claims. (Cl. 303—86.)



4. The method of testing the fluid pressure brake system of a train for leakage which consists in supplying fluid under pressure from a source of fluid under pressure to the brake pipe through an opening of predetermined area and then calculating the leakage from the difference in pressure between the source of pressure and the pressure developed in the brake pipe as indicated by a pressure gage.

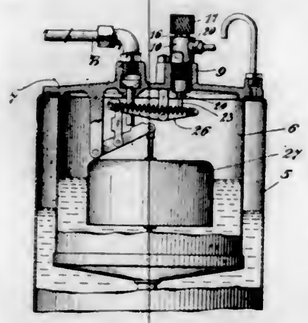
1,681,552. HATRACK. FRANK R. MOUNT and CHARLES P. YOUNG, Warren, Pa. Filed May 7, 1927. Serial No. 189,581. 2 Claims. (Cl. 211—32.)



1. A hat rack consisting of a sheet metal body member having an attaching flange and a plurality of lugs and a discontinuous wire member bent into appropriate shape

and engaged and held to the body member by said lugs, said wire member also having intermediate its ends a short bend which lies against the face of the sheet metal body member.

1,681,553. VALVE. JOHN NETTERMAN, Island Heights, N. J. Filed Apr. 14, 1925. Serial No. 22,965. 5 Claims. (Cl. 103—236.)



1. The combination with a vacuum chamber of a fuel supply system and a cover therefor, a valve unit comprising a body detachably mounted in said cover and having an air inlet passage therethrough, a valve normally closing the inlet of air through said passage, a valve stem passing through said air passage, said valve body having a vacuum passage, a second valve carried by the valve stem, and controlling the vacuum passage, said second valve having a greater amplitude of movement than the first mentioned valve, and a float actuating means for unseating the valve to allow air to pass to the chamber and destroy the vacuum, and said valve closing the vacuum passage and allowing the air inlet passage to remain open.

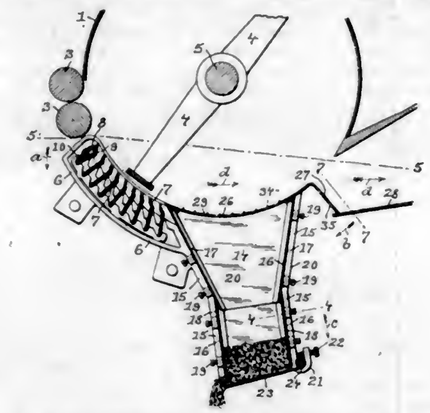
1,681,554. WAVE FILTER. EDWARD L. NORTON, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 24, 1924. Serial No. 751,748. 14 Claims. (Cl. 178—44.)



11. An impedance transforming wave filter adapted to transmit selectively waves in a desired broad band of frequencies, comprising two portions having unequal characteristic impedances, and a coupling section included between said portions, said coupling section comprising an unsymmetrical system of connected impedances having precomputed values dependent upon the limiting frequencies of the desired broad band and upon the unequal characteristic impedances of the connected filter portions whereby the filter will transmit waves without reflection at its internal junction points, and will transform the amplitudes of the waves in accordance with ratio of the impedances of the two portions.

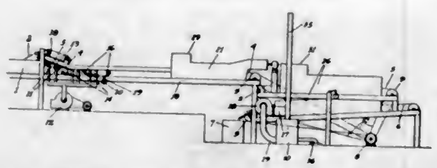
1,681,555. COTTON-PICKING MACHINE. AMASA ST. ONGE, Providence, R. I. Filed Aug. 31, 1926. Serial No. 132,746. 4 Claims. (Cl. 19—95.)

1. In the beater section of cotton picking machine a curved sheet metal perforated plate forming the top of a mote and trash receptacle, each perforation having a straight edge merging into rounded corners which merge



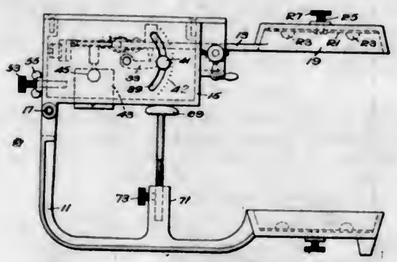
into straight angular edges which in turn merge into a curved edge and upwardly extending tets at the curved edge, for the purpose as described.

1,681,556. WASHING AND DRYING APPARATUS. DONALD PARKER, Fresno, Calif. Filed May 9, 1927. Serial No. 189,908. 8 Claims. (Cl. 34—12.)



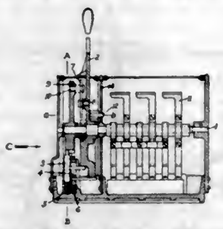
1. A drying apparatus including a foraminous longitudinally moving draper on which the produce to be dried is supported, transversely extending and longitudinally spaced suction pipes under the draper having openings facing the draper, and means for agitating and disturbing the setting of the produce on the draper, disposed intermediate the pipes.

1,681,557. DENTAL ARTICULATOR. GEORGE P. PHILLIPS, Boston, Mass. Filed Aug. 29, 1924. Serial No. 734,930. 7 Claims. (Cl. 32—1.)



3. A dental articulator comprising a model holder, a support connected thereto, a movable model holder arm having connections to said support providing for mandibular movement, said connections comprising a carrier movable forwardly and backwardly on the support, a universal joint connection between the arm and said carrier and adjustable condyle guides which govern the movement of said arm about its carrier.

1,681,558. ELECTRIC SWITCH. JOSEF SCHLAGENHAUFER, Munich, Germany, assignor, by mesne assignments, to General Electric Company, a Corporation of New York. Filed Oct. 4, 1923, Serial No. 666,548, and in Germany Nov. 25, 1922. 6 Claims. (Cl. 200—17.)



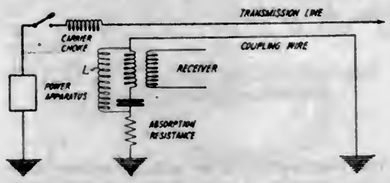
1. In a motor starting switch, the combination with contact members, of a switch lever operable in each direction from a plurality of positions, yielding means operatively connecting said switch lever with said contact members, means comprising a stationary part provided with notches and a locking arm mounted upon said switch lever and adapted to engage said notches for retaining the switch lever positively in its positions, said locking arm and said notches being arranged to require movement of the switch lever in one direction from each of said positions before permitting movement of the lever in the other direction from said position.

1,681,559. SEWING-MACHINE-BOBBIN WINDER. HUGH M. STEPHENSON, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed June 22, 1927. Serial No. 200,726. 20 Claims. (Cl. 242—22.)



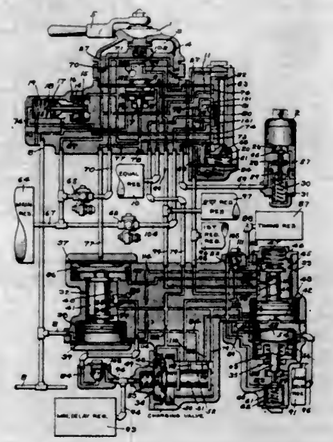
1. In a sewing machine, a needle operating mechanism, means for actuating said needle operating mechanism, means for winding a bobbin, and means for disconnecting said needle from said needle actuating means responsive to placing a bobbin in engagement with said bobbin winding means.

1,681,560. COUPLING BETWEEN RADIO APPARATUS AND HIGH-TENSION TRANSMISSION LINE. PAUL TATZ, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Dec. 8, 1924, Serial No. 754,480, and in Germany Dec. 18, 1923. 6 Claims. (Cl. 179—2.)



1. The method of transferring radio frequency signals to and from a high tension transmission system which comprises transferring the radio frequency signal to or from the high tension line by capacitive coupling and preventing the development of stationary oscillations in said coupling by absorbing the progressive oscillations in resistance elements.

1,681,561. FLUID-PRESSURE BRAKE. THOMAS H. THOMAS, Edgewood, and CLAUDE A. NELSON, Wilmerding, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 8, 1927. Serial No. 224,867. 19 Claims. (Cl. 303—18.)



2. Apparatus for effecting a reduction in brake pipe pressure in two stages including a first reduction reservoir, a second reduction reservoir, valve means normally connecting said reservoirs, an equalizing reservoir, an application valve device movable to application position to connect the first reduction reservoir with the equalizing reservoir, and means responsive to the movement of said valve device and independent of the initiation of the brake pipe reduction for effecting the movement of said valve means to cut off communication between the first and the second reduction reservoirs.

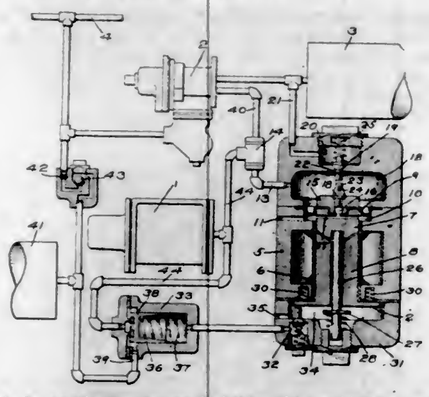
1,681,562. SAFETY APPARATUS FOR AIRPLANES. WILLIAM HOLMES WENSTROM, Fort Bliss, Tex. Filed Mar. 17, 1925. Serial No. 16,159. 8 Claims. (Cl. 244—1.)



1. That improvement in the method of reducing the speed of an airplane which consists in releasing from the airplane a body of highly compressed gas against a body of water carried by the airplane, causing the gas to force said water forward in the direction of motion of the airplane, and using sufficient quantities of gas and water to create therewith a rearwardly directed force serving to substantially reduce the speed of the airplane.

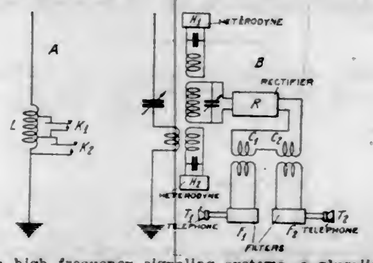
5. The combination in an airplane, of a metal tube extending longitudinally of the axis of the airplane, a supply of powder in said tube, a body of water in said tube arranged to be expelled by the burning of said powder, and means under the control of the operator for igniting said powder.

1,681,563. ELECTROPNEUMATIC BRAKE. UNCAS A. WHITAKER, Wilmerding, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Apr. 11, 1927. Serial No. 182,746. 6 Claims. (Cl. 303—15.)



4. In an electro-pneumatic brake, the combination with a brake cylinder, of valve means for controlling the admission and release of fluid under pressure to and from the brake cylinder, an electro-magnet having a solenoid core for operating said valve means and subject to the pressure of a spring tending to operate said solenoid and valve means to supply fluid to the brake cylinder and to the pull of said magnet tending to release fluid from the brake cylinder, additional valve means for controlling the supply of fluid under pressure to the brake cylinder, and an additional solenoid core for said magnet subject to the pressure of a spring for effecting the operation of said additional valve means upon a reduction in current flow through said magnet to a low degree.

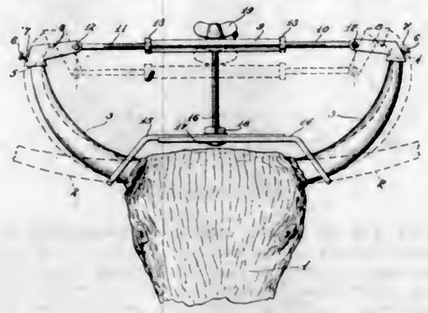
1,681,564. RADIO SIGNALING SYSTEM. GEORGE MAURICE WRIGHT, Chesterfield, England, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Mar. 2, 1922, Serial No. 540,387, and in Great Britain Mar. 3, 1921. Renewed July 29, 1925. 12 Claims. (Cl. 250—9.)



1. In high frequency signaling systems, a plurality of means at the sending station adapted to act separately and jointly to vary the sending frequency, each of said means acting separately being adapted to produce a different frequency, and acting jointly to produce a third frequency and a pair of beat receivers each responsive to a different frequency, one responsive to one of the first mentioned frequencies and to the third frequency and the other responsive to the other of the first mentioned frequencies and to the third frequency.

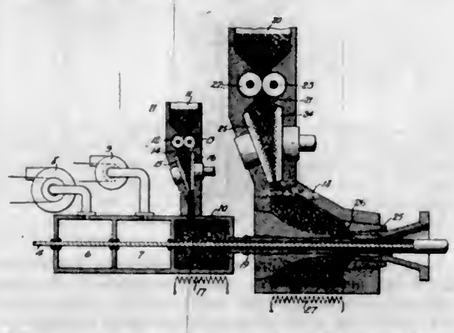
1,681,565. HORN DEFLECTOR. CHARLES ACHENBACH, Manitowoc, Wis. Filed June 29, 1927. Serial No. 202,303. 1 Claim. (Cl. 128—76.)

In a horn deflector, cups, means to secure said cups on the horns of an animal, a turn-buckle provided with internal screw threads at the ends thereof, bolts provided with external screw threads corresponding with and fitting into said internal screw threads, means to secure said bolts in an adjusted position relative to said turn-buckle, and means to pivotally connect said bolts to said cups, in combination with additional members adapted to be placed on the horns



of an animal adjacent to the head of said animal, means to secure said additional members in an adjusted position on said horns, and a bolt extendible through said additional members and through said turn-buckle, and means to control the relative position of said additional members and said turn-buckle.

1,681,566. MANUFACTURE OF CABLES. GUSTAVUS A. ANDEREGG, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 26, 1924. Serial No. 734,201. 14 Claims. (Cl. 18—59.)



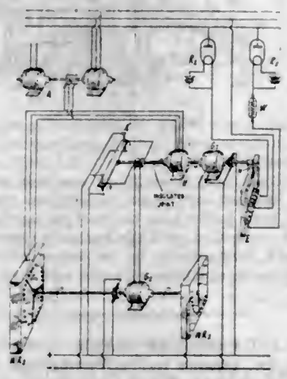
1. A continuous method of insulating a composite conductor which comprises impregnating and coating the conductor with a compound which is relatively fluid at ordinary temperatures, and pressing a uniform layer of plastic insulating material on to said relatively fluid coating.

1,681,567. ACCUMULATOR-CONTROL MEANS OF ADDING MACHINES. GLENN J. BARRETT, Evanston, Ill., assignor to Portable Adding Machine Company, Chicago, Ill., a Corporation of Illinois. Filed May 7, 1923. Serial No. 637,196. 42 Claims. (Cl. 235—60.)



1. The combination in an adding machine having an adding element and an accumulator element movable into and out of cooperating relation with said adding element, of a control means for said accumulator element comprising a lever operatively connected to said accumulator element, an oscillating actuating member having a cam periphery, a tappet roller carried by said actuating member, a pawl pivotally mounted on said lever to be engaged by said tappet roller during the early part of the forward stroke of said actuating member, to move the accumulator element out of cooperative relation with the adding element, a locking dog pivotally mounted on said lever and provided with a roller adapted to coact with the periphery of said actuating member, to hold the accumulator element out of cooperative relation with the adding element during the forward stroke of the actuating member, the periphery of said actuating member being notched to engage said roller on said locking dog during the early part of the return stroke of said actuating member to release the locking dog, and a spring acting to return said lever when said locking dog is released to return the accumulator element to cooperative relation with the adding element to effect adding on the return stroke of the actuating member.

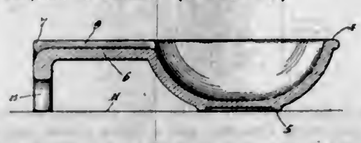
1,681,568. ARRANGEMENT FOR GOVERNING SPEED OF ASYNCHRONOUS MOTORS. OTTO BÖHM, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Sept. 24, 1924, Serial No. 739,456, and in Germany Sept. 25, 1923. 7 Claims. (Cl. 172—274.)



1. The combination with an asynchronous alternating current motor having a wound rotor, of a regulator system comprising, a regulating resistance connected to said rotor, an auxiliary motor supplied from the rotor circuit thereof and adapted to vary said regulating resistance according to changes in the frequency therein, and means responsive to change in voltage of current supply to said motor for simultaneously adjusting said regulating resistance.

2. A speed regulating system for asynchronous motors comprising means for conducting rotor currents therefrom to an external circuit, adjustable resistances connected in said external circuit, and means for adjusting said resistances comprising means for producing a torque proportional to the frequency in said rotor circuit, means for producing a steady opposing torque, and means also acting upon said resistance for compensating for supply voltage changes.

1,681,569. BOWL WITH WRIST SUPPORT. JOSEPH BRUECK, New York, N. Y. Filed Oct. 14, 1927. Serial No. 226,095. 5 Claims. (Cl. 132—78.)

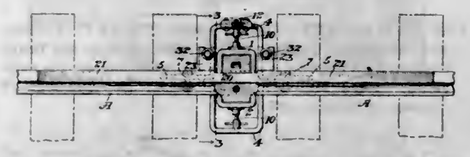


1. A bowl with a wrist support, comprising a bowl provided with a base portion for partially supporting the same, said bowl being further provided with a portion extending radially outward from it and fashioned into a supporting rail, said supporting rail being provided with downwardly extending portions whereby it is supported, said downwardly extending portions being spaced apart.

1,681,570. WATERPROOF CEMENTITIOUS COMPOSITION. JOHN D. CARTER, Lansdowne, Pa. Filed May 9, 1923. Serial No. 637,883. 3 Claims. (Cl. 87—17.)

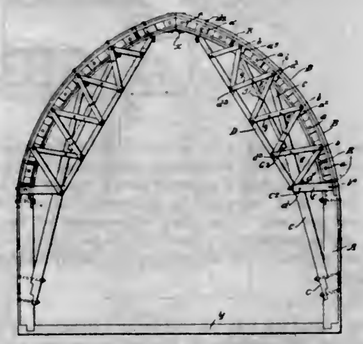
1. A waterproof cementitious composition of matter produced by mixing calcium carbonate with substantially an equal amount by weight of a sodium silicate solution of from 30° to 40° Bé. and in which the ratio of the sodium oxid to the silica is substantially as 1 : 2.

1,681,571. APPARATUS FOR WELDING RAILS UNDER TRAFFIC. JOHN H. DEPPELER, Weehawken, N. J., assignor to Metal & Thermit Corporation, Carteret, N. J., a Corporation of New Jersey. Filed Feb. 16, 1926. Serial No. 88,644. 18 Claims. (Cl. 22—116.)



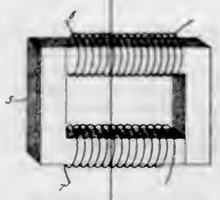
1. Means for forming welded joints between rail ends, comprising a mold receiving box to embrace the rail ends and means adapted to be secured to the rails to support the box and hold the rail ends in alignment.

1,681,572. TRUSS STRUCTURE. CLEMENT L. EWING, Jeromeville, Ohio. Filed Mar. 14, 1928. Serial No. 261,645. 3 Claims. (Cl. 20—1.)



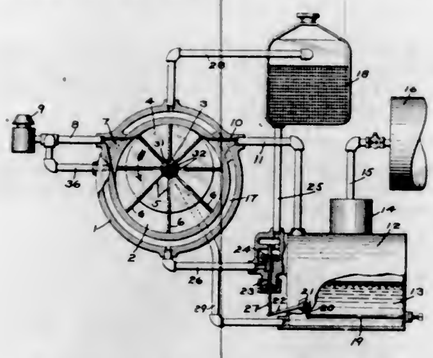
3. A barn frame truss structure having in combination, a pair of opposite arched posts of gothic curvature united together, said posts embodying a unitary structure continuous from the base to the apex of the arch, a sloping post solidly attached at its lower end to said arched post near its lower end, and at its upper end to said arched post at or near the middle of the curved portion thereof, a horizontal beam attached to said sloping post at or near the middle thereof and to said arched post at a point opposite thereto, a tie-beam seated in said sloping post at a point opposite the inner terminus of said horizontal beam, and attached to said arched post near the upper end theref, and a series of struts extending from the tie-beam to the curved portion of said arched post, said struts arranged in pairs in V-shaped bridge formation, and secured together and to said post and tie-beam respectively, and to said sloping post where they intersect the same, substantially as set forth.

1,681,573. TRANSFORMER. GUSTAF W. ELMEN, Leonia, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 30, 1924. Serial No. 716,845. 5 Claims. (Cl. 175—356.)



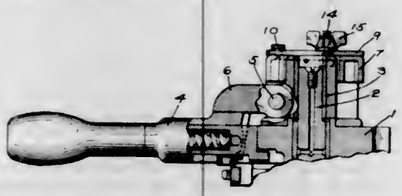
1. A distributing transformer having a primary winding, a secondary winding, and a core comprising an alloy of nickel and iron, said core having a hysteresis loss at a flux density of 5,000 lines per square centimeter not greater than 100 ergs per cubic centimeter per cycle.

1,681,574. ROTARY COMPRESSOR. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Mar. 1, 1923. Serial No. 622,099. 5 Claims. (Cl. 230—205.)



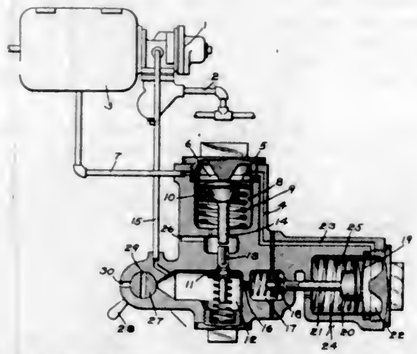
1. The combination with a rotary fluid compressor, of a reservoir into which flows fluid compressed by the compressor and containing a quantity of oil, means for supplying oil from said reservoir to lubricate the compressor, mechanism for regulating the temperature of the compressor, and a thermostat subject to the temperature of the oil in the reservoir for controlling the operation of said mechanism.

1,681,575. BRAKE-VALVE DEVICE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed July 7, 1926. Serial No. 120,958. 3 Claims. (Cl. 303—56.)



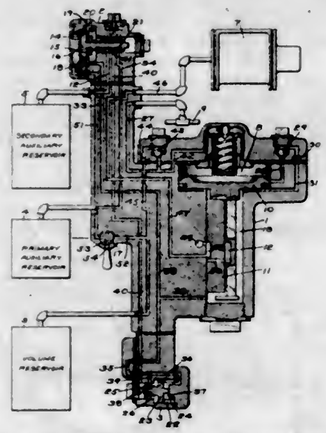
3. A brake valve device comprising a body section, a valve operating key, a socket member removably mounted on said key, a handle for operating said member, a handle guard for preventing removal of said socket member and handle except in handle off position, a cover plate pivotally secured to said handle guard and having a position in which said plate extends over said socket member, and means for clamping said plate in said position.

1,681,576. FLUID-PRESSURE BRAKE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 7, 1926. Serial No. 140,084. 5 Claims. (Cl. 303—7S.)



1. In a fluid pressure brake, the combination with a triple valve device, a brake pipe, and an auxiliary reservoir, of means for controlling the brake cylinder triple valve exhaust port and operated by auxiliary reservoir pressure to connect said exhaust port to an unrestricted atmospheric port when a high brake pipe pressure is carried and to maintain said connection until the auxiliary reservoir pressure is reduced substantially to the degree at which the brake pipe pressure equalizes with the auxiliary reservoir pressure.

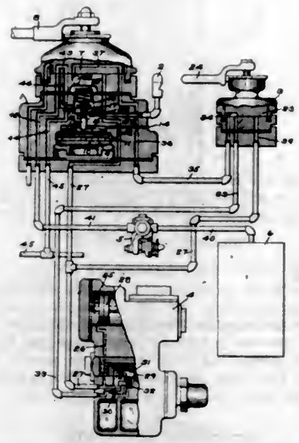
1,681,577. FLUID-PRESSURE BRAKE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 19, 1926. Serial No. 142,621. 3 Claims. (Cl. 303—46.)



3. In a fluid pressure brake, the combination with a brake pipe, brake cylinder, and a valve device subject to the opposing pressures of the brake pipe and a chamber for controlling the supply of fluid to the brake cylinder, of two auxiliary reservoirs having different volumes, a valve device

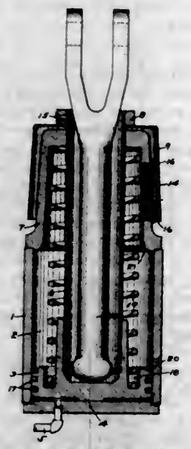
having one position for connecting one reservoir to said chamber and another position for connecting the other reservoir to said chamber, and manually controlled means for controlling the operation of said valve device.

1,681,578. FLUID-PRESSURE BRAKE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Jan. 27, 1927. Serial No. 163,944. 5 Claims. (Cl. 303—68.)



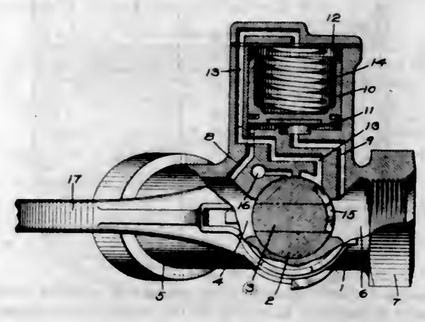
4. In a fluid pressure brake, the combination with a locomotive brake equipment including a distributing valve device having an application cylinder and a brake valve device, of a flexible diaphragm incorporated in said brake valve device and subject to the pressure of fluid in said cylinder, and a valve operated by said diaphragm upon an increase in pressure in said cylinder for warning the engineer of such increase in pressure.

1,681,579. BRAKE CYLINDER. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Mar. 25, 1927. Serial No. 178,307. 4 Claims. (Cl. 303—88.)



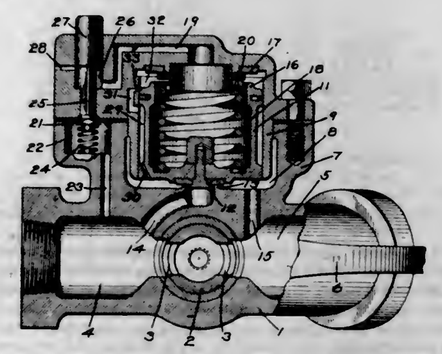
4. The combination with a fluid pressure cylinder having a non-pressure head provided with an annular arcuate face, of a piston in said cylinder provided with grooves for piston rings and having a chamfered inner face adapted to engage said arcuate face, the line of contact being such that the force of impact is transmitted through the solid metal of the piston at the rear of the grooves.

1,681,580. ANGLE-COCK DEVICE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Apr. 20, 1927. Serial No. 185,187. 6 Claims. (Cl. 303—86.)



1. The combination with an angle cock having a brake pipe controlling valve, of valve means for controlling a bypass passage around said valve, said valve means having one side subject to brake pipe pressure and having the other side connected to the atmosphere in a closed position of the valve.

1,681,581. ANGLE-COCK DEVICE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 3, 1927. Serial No. 223,531. 8 Claims. (Cl. 303—86.)

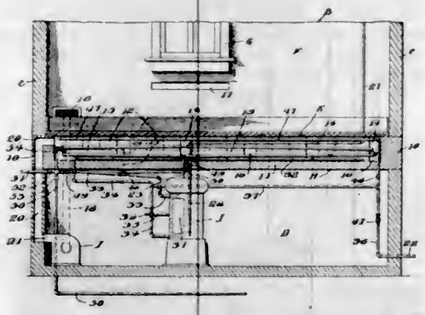


3. An angle cock device having a cock key and provided with a passageway around the key for establishing communication from one side of the key to the other, a valve for controlling said passageway, a piston operated by fluid under pressure for operating said valve to close communication through said passageway, and manually operated means operable to supply fluid under pressure to said piston.

1,681,582. HEATING, COOLING, AND HUMIDIFYING SYSTEM FOR BUILDINGS. CARL A. FJELSTAD, Minneapolis, Minn. Filed Oct. 5, 1923. Serial No. 666,767. 9 Claims. (Cl. 257—8.)

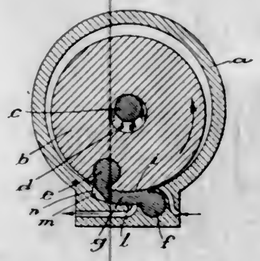
1. In combination with a building, a heating and cooling system therefor, including a basin-like substructure beneath

and covered by the floor to form an enclosed chamber, spaced bases in said substructure upon which the floor is supported, said bases dividing the chamber into a series of communicating passages, means for heating or cooling said



passages beneath the floor, and means for spraying water in said passages to humidify the air therein, the passages formed by said bases providing for the drainage of water in said chamber.

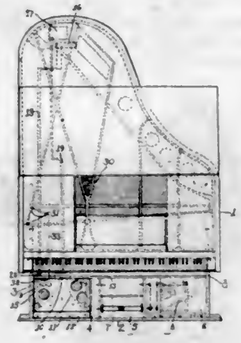
1,681,583. ROTARY MOTOR OR COMPRESSOR. GEORG GÜTTNER, Berlin, Germany. Filed Mar. 11, 1927, Serial No. 174,663, and in Germany Mar. 29, 1926. 4 Claims. (Cl. 230—147.)



1. A rotary motor or compressor, comprising a cylinder, an eccentric piston therein, a separating member of sector shape for dividing the free space of the cylinder into a suction compartment and a compression compartment at each revolution of the piston and allowing the compressed fluid to be discharged and cylindrical heads forming the two ends of said member for pivotal connection with the cylinder and the piston, the wall of said cylinder near the two cylindrical heads being adapted to receive the separating member and having an inlet and an outlet for the fluid.

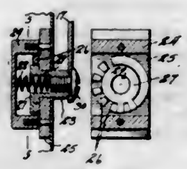
1,681,584. WIRELESS RECEIVING INSTALLATION FOR GRAND PIANOS. JUSTUS HATTEMER, Cliffside, N. J., and LOUIS C. KAULING, Brooklyn, N. Y., assignors to Premier Grand Piano Corporation, New York, N. Y., a Corporation of New York. Filed May 27, 1924. Serial No. 716,193. 2 Claims. (Cl. 250—14.)

1. In a cabinet for a radio receiving installation, in combination, a stationary case, a shallow receptacle supported by said case, said receptacle arranged for movement in a horizontal plane away from said stationary case to an exposed position at the front of the case, said receptacle having rear and opposite side portions, an amplifying horn in said receptacle and movable therewith, said horn arranged to extend horizontally from said rear portion and between said side portions with its bell at the front of said recepta-



cle, radio receiving apparatus disposed about said amplifying horn, a stationary source of electric energy in said case, and devices connecting said stationary source of electric energy with the radio receiving apparatus in said movable receptacle in both closed and open positions of said receptacle.

1,681,585. ADJUSTABLE SHADE AND AWNING FOR AUTOMOBILE AND OTHER WINDOWS. JOSEPH G. HEDRICK, Hailey, Idaho, and CARL H. NEUSTIS, Baker, Oreg. Filed Jan. 18, 1927. Serial No. 161,879. 2 Claims. (Cl. 156—44.)

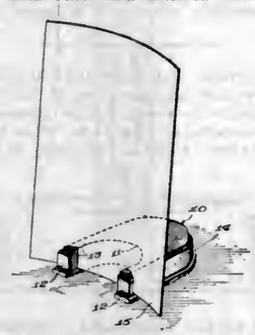


1. In a roller awning construction of the type commonly mounted in the inside of window frames, a mounting comprising a casing having a central opening and a series of teeth disposed radially around the central opening, a tubular pintle entering the central opening and having a shoulder at its outer end, said pintle having radial teeth extending over the margin of the opening and engageable with the teeth on the front of said casing, a headed screw having its shank engaging in the central opening of the pintle, the head of the screw being adapted to engage over a member mounted on the pintle and a spring disposed within the casing bearing against said screw and urging the pintle outward but permitting the inward movement of the pintle to disengage the teeth of the pintle from the teeth of the casing.

1,681,586. DISPLAY-CARD HOLDER. FREDERICK M. KESSLER, Joplin, Mo., assignor of one-half to Joseph C. Beck, Joplin, Mo. Filed Dec. 23, 1926. Serial No. 156,675. 1 Claim. (Cl. 40—146.)

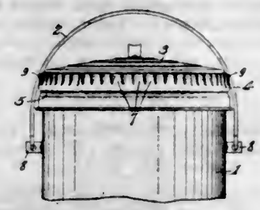
A card holder comprising a rigid base member having a pair of spaced portions at one side thereof, said spaced

portions having slots therein adapted to receive the normal edge portion of a card, said slots being arranged at an angle to each other and inclined from the vertical



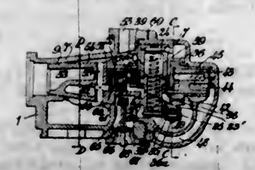
whereby a card held in said slots will be curved transversely thereof and inclined from the vertical and will be supported at a point remote from the center of the base.

1,681,587. COVER FOR GARBAGE CANS. HENRY KIELBERG, Martins Ferry, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of Delaware. Filed June 5, 1926. Serial No. 113,839. 2 Claims. (Cl. 220—56.)



1. In combination with a container body and a ball attached to the body, a removable cover for the body having a top and a flange depending therefrom, said flange being formed throughout substantially its circumference with a series of integral undulations the concave portions of which latter are upwardly and inwardly inclined to conform to the disposition of the adjacent portions of the bail, said undulations having gradually curved convex portions and said bail being resilient, thereby to enable the latter to ride over the convex portions and into and out of the concave portions of the undulations upon mere swinging of the bail, thus to effect maintenance of the cover on the body when the bail occupies its upward position and to effect release of the cover when the bail occupies its lowered position.

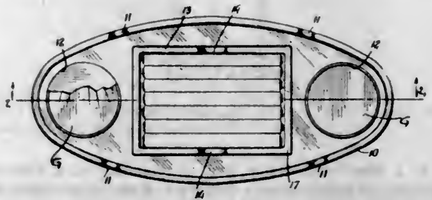
1,681,588. MEANS FOR FILLING TWO CONTAINERS ALTERNATELY. JOSEPH LAWSON, Great St. Helens, London, England, assignor to Asiatic Petroleum Company, Limited, St. Helens Court, London, England. Filed Jan. 3, 1928, Serial No. 244,342, and in Great Britain Sept. 29, 1926. 30 Claims. (Cl. 137—139.)



1. In combination, a plug cock adapted to control the supply and discharge of liquid from supply means to and from a pair of containers, two cylinders, means adapted to place the cylinders alternately in communication with said liquid supply means, pistons in said cylinders, a rocking member, means connecting said rocking member to said pistons, said rocking member being adapted upon actuation of said pistons to initially and partially actuate said plug cock, and means adapted to complete the actuation of said plug cock and to actuate the means adapted to place the cylinders alternately in communication with said liquid supply means.

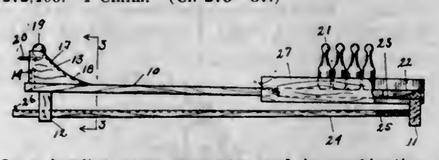
17. The combination with a plug cock adapted to control the supply of a fluid, of means for neutralizing the side thrust exerted by the fluid pressure on said plug cock comprising a recess located in the side of the plug.

1,681,589. SERVING TRAY. LOUIS LEVIEN, New York, N. Y. Filed Aug. 18, 1927. Serial No. 213,964. 2 Claims. (Cl. 65—53.)



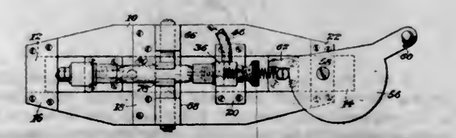
1. A serving tray having a central rectangular receptacle molded integrally therein and continuous with the top surface thereof, said receptacle extending upwardly from the surface of the said tray and having slots therein so that cigarettes could be readily removable therefrom and a series of circular retaining portions integral with the body of said tray on each side of said receptacle adapted to hold a glass or the like, and a series of slots on the rim of said tray adapted to hold cigarettes therein.

1,681,590. BOWLING GAME BOARD. JOSEPH MARCZINKO, Passaic, N. J. Filed Apr. 24, 1928. Serial No. 272,405. 1 Claim. (Cl. 273—37.)



In a bowling game apparatus and in combination, a panel, a horizontally swingable member pivoted on the panel and having a forward inclined groove and a ball seat at the upper end of said groove, and a trigger pivoted to the said swingable member to swing vertically and having a forward arm arranged to lift and displace a ball from said seat and also having a rear handle portion extending rearwardly from said member and adapted to be used in swinging the member.

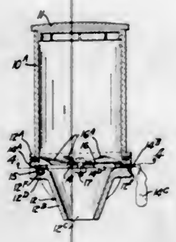
1,681,591. GLASS-WORKING MACHINE. GEORGE A. MILLAR, Ridgefield Park, N. J., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed Mar. 1, 1927. Serial No. 171,745. 12 Claims. (Cl. 49—7.)



3. In combination, in a glass working machine, means for holding a tubular blank comprising a set of side clamps and a set of end clamps, means tending to close said side

clamps, one of said end clamps being movable away from the other end clamp, and means mounted to said movable end clamp and movable therewith effective when said movable end clamp is moved away from the other end clamp to operate said side clamps to open them against the tendency of said closing means.

1,681,592. DISPENSING DEVICE. ARTHUR PERSONS MILLER and DANIEL SIAKEL, Chicago, Ill. Filed Sept. 27, 1926. Serial No. 137,943. 1 Claim. (Cl. 221—109.)



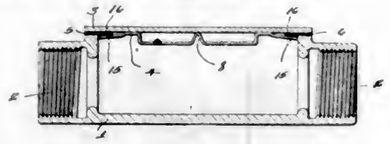
In a dispensing device, and in combination, a material storage container, means for causing and controlling the gravity discharge of the material from said container, comprising a pair of adjacently mounted coacting plates at the lower end of said container, and means for imparting movement to said plates, the upper of said plates having a plurality of blades forming integral portions thereof and being bent upwardly and angularly to the upper surface of said upper plate to provide openings beneath said blades, the lower of said plates having a plurality of openings therein, the upper of said plates being adjustable relatively to said lower plate to vary the relative alignment of the openings in said plates.

1,681,593. SHEET PILING. KARL PAHL, Heidelberg, Germany. Filed Dec. 31, 1925. Serial No. 78,610, and in Germany Mar. 3, 1925. 2 Claims. (Cl. 61—60.)



1. A pile wall of sheet piling comprising U-shaped piles having claws at each edge and cooperating with claws of the adjacent pile members, box-shaped pile members at distances apart in the said wall, comprising two U-shaped piles with their open side faced against each other and having the contact surface substantially in the neutral plane of the piling and locking bars having claws on one side embracing two claw members at one side of the said box comprising two piles faced against each other and one claw at the other side of a shape cooperating with one claw at one edge of the said U-shaped piles.

1,681,594. COVER FOR CONDUIT-OUTLET BOXES. JOHN T. PEARSON and RAYMOND H. OLLEY, Syracuse, N. Y., assignors to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed Apr. 15, 1925. Serial No. 23,333. 1 Claim. (Cl. 247—15.)



A cover for conduit outlet boxes, comprising a body, a plate secured to the inner side of the body, and spaced-apart from the edge of the body leaving a marginal bearing face on the body, the intermediate part of the plate being offset from the inner face of the body, and formed with a transverse corrugation, the plate being formed with a slot therein opening through one edge thereof, the corrugation being alined with the slot, and one end of the corrugation forming the inner end wall of the slot, and fastening means for attaching a cover to a conduit outlet box, comprising a wedge member extending into the slot, the wedge member and the end of the corrugation being formed with coacting surfaces acting to thrust the wedge member laterally upon clamping movement of the wedge member toward the inner face of the cover, and means for clamping the wedge member.

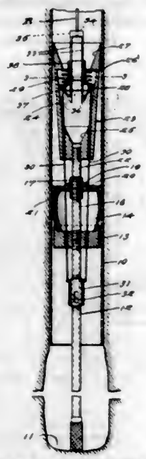
1,681,595. DISPLAY-CARD HOLDER. ALVIS M. RAY, Tacoma, Wash. Filed Dec. 29, 1927. Serial No. 243,307. 3 Claims. (Cl. 40—129.)



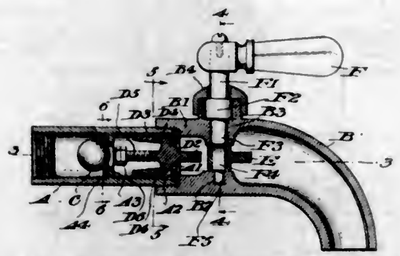
1. A display card holder consisting of an integral piece of metal bent to form two parallel oppositely disposed card clamping portions, a loop intermediate the extremities of said card clamping portions at right angles thereto and a shank connecting said loop and card clamping portions, clamping members on opposite sides of said shank and clamping said card clamping portions, and a clamp on said shank for tightening said loop.

1,681,596. PUMPING APPARATUS. VERN EARNEST REICHARD, Stinnett, Tex. Filed Aug. 16, 1927. Serial No. 213,358. 6 Claims. (Cl. 103—221.)

1. In well pumping apparatus for pumping wells the casings of which are spaced above the lower ends of the bores thereof, a tubing adapted to extend from the lower end of the well to a point slightly above the lower end of the casing and having adjacent its upper end means whereby it is sealed to the casing, a valved port in the tubing below said sealing means, the valve of which is normally closed, and means for supporting the tubing section while inserting the same into or removing the same from the well, said supporting means having engagement with the valve maintaining the valve of said port in open position.

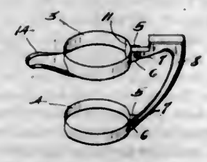


1,681,597. FAUCET. HUGH W. SANFORD, Knoxville, Tenn. Filed Feb. 9, 1926. Serial No. 87,078. 2 Claims. (Cl. 277—27.)



1. In a structure of the kind described, the combination of two valve seats directed toward the source of liquid flow, a cam forward of the forward valve seat, means for turning the cam, a valve member at the rear of the rear valve seat and adapted to seat thereon by forward pressure of liquid, a forward valve member adapted to seat on the forward valve seat by forward pressure of the liquid and extending through said seat into the path of said cam and said valve member having guiding arms and having a stem extending rearward and adapted to engage and dislodge the rear valve member when the forward valve member is pressed rearward by said cam, substantially as described.

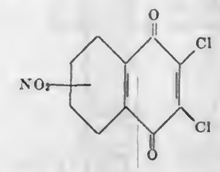
1,681,598. TEAPOT CONSTRUCTION (POTTERY BODY). ALBERT F. SAUNDERS, Syracuse, N. Y., assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y., a Corporation of New York. Filed Jan. 27, 1926. Serial No. 83,991. 4 Claims. (Cl. 53—3.)



1. A construction for ten pots and similar articles comprising a body of pottery or the like, a metal frame including spaced apart metal bands enclosing the top and bottom rim portions of the body, a handle having its ends secured to the bands and a cover carried by the upper band.

1,681,599. NITRO-2.3-DICHLOR-1.4-NAPHTHOQUINONE AND PROCESS OF PREPARING THE SAME. JOSEF STOCK, Hochst-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 30, 1927, Serial No. 236,874, and in Germany Mar. 27, 1925. 7 Claims. (Cl. 260—56.)

7. As a new product, the compound of the following formula:

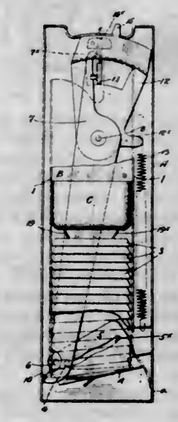


which when recrystallized from glacial acetic acid or alcohol forms crystals melting at 175° C.

1,681,600. PROCESS OF PREPARING ALKALI-METAL ALCOHOLATES OF COMPOUNDS CONTAINING ALCOHOLIC HYDROXYL GROUPS. CHRISTIAAN VAN LOON, Dordrecht, Netherlands. Filed July 20, 1927, Serial No. 207,312, and in the Netherlands July 21, 1925. 8 Claims. (Cl. 260—156.5.)

1. A process of preparing alkali metal alcoholates of non-sugar-containing compounds containing two or more alcoholic hydroxyl groups, comprising dehydrating a solution of the hydroxyl containing compound in an aqueous solution of an alkali metal hydroxide by heating to a maximum temperature between 50° C. and 350° C., but lower than the temperature at which deterioration begins and sufficiently high to obtain the expulsion of the last portions of water.

1,681,601. VENDING MACHINE. WILLIAM J. TINTERA, Yonkers, N. Y. Filed Oct. 6, 1924. Serial No. 741,825. 1 Claim. (Cl. 312—63.)

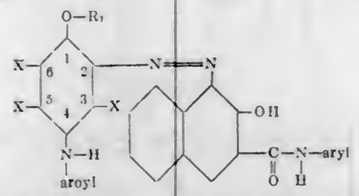


A coin-control vending machine comprising a casing having a vertical wall and a discharge outlet at its lower end, a plate pivoted to the vertical wall and having at its lower end a finger for ejecting lowermost articles from the stack,

a table pivoted to the casing wall and normally shutting off the stack of articles from said opening, the table having a member extending adjacent and parallel with the casing wall and formed with a cam, and a cam operating member carried by the said plate and engaging said cam whereby the table is pivotally lowered during an ejecting movement.

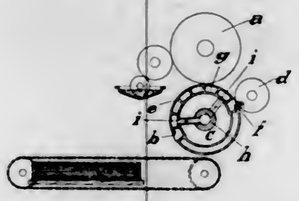
1,681,602. AZO DYESTUFFS AND PROCESS OF MAKING SAME. HERMANN WAGNER, Soden, and OTTO SOHST, Hochst-on-the-Main, Germany, assignors, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 12, 1925, Serial No. 15,121, and in Germany Mar. 29, 1924. 8 Claims. (Cl. 260—95.)

4. As new products, azo dyestuffs of the following formula:



wherein X represents hydrogen or a substituent, R_1 an alkyl group, aryl group or aralkyl group, benig claret-red powders, insoluble in water, soluble in concentrated sulfuric acid with an intense blue-violet color, the coloring matters, when produced on the fibre, giving claret-red tints of good fastness to light and to kier-boiling.

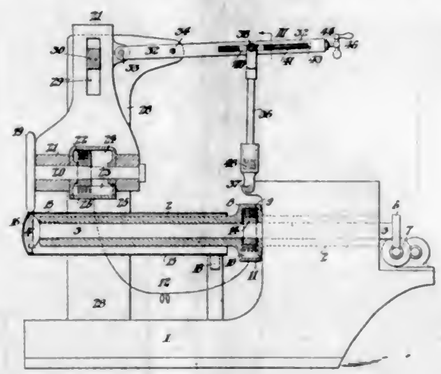
1,681,603. INTAGLIO PRINTING MACHINE. OTTMAR WILHELM, Augsburg, Germany, assignor to Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany, a Corporation of Germany. Filed July 8, 1926, Serial No. 121,107, and in Germany July 23, 1925. 5 Claims. (Cl. 101—153.)



1. In intaglio printing machines, the combination with the delivery cylinder and means for transferring the printed sheet to said delivery cylinder; of a cooling means for continuously supplying to said delivery cylinder a cooling medium at a temperature substantially lower than the water of the main water line to quickly cool and thereby contract the ink on the printed sheet.

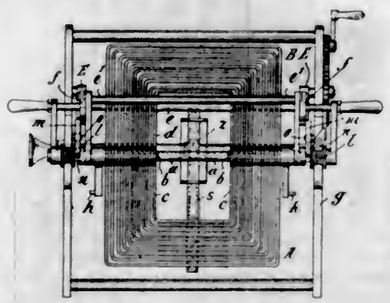
1,681,604. ELECTRIC WELDING MECHANISM. JOSEPH WILLIAM WINTER, Penfield, Pa., assignor to John Wood Manufacturing Company, Conshohocken, Pa., a Corporation of Pennsylvania. Filed June 6, 1924. Serial No. 718,208. 6 Claims. (Cl. 219—4.)

1. In electric welding apparatus, the combination with a stationary frame; of a rotary electrode shaft journaled upon a substantially horizontal axis in said frame; a rotary electrode carried by said shaft, at the end of said shaft remote from said frame; a pair of idle bearing rollers, in transversely spaced relation, below said shaft, adjoining said frame and remote from said electrode; whereby tubular bodies to be welded, of different diameters, may be exteriorly supported at one end by said idle rollers and interiorly supported at the other end by said electrode and in cooperative contact but eccentric relation with the latter; a second rotary electrode, mounted upon a shaft with its axis in substantially parallel relation with the axis of



said first electrode; means carrying said second electrode and its shaft, adjustable toward and away from said first electrode; whereby the article to be welded may be gripped between and turned by frictional engagement with said electrodes.

1,681,605. TESTING THE QUALITY OF COTTON FIBERS AND THE LIKE. GOTTLOB ZWEIGLE, Reutlingen, Germany. Filed Jan. 7, 1928, Serial No. 245,203, and in Germany Jan. 17, 1927. 8 Claims. (Cl. 73—51.)

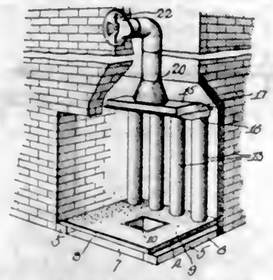


1. A device for testing the quality of cotton fibers and similar fibrous material comprising a frame, two groups of nested needle combs extending horizontally and loosely pivoted each on one of the two superimposed horizontal axes and having their needles extending vertically in staggered relation to and opposite each other, the combs of the upper group being adapted to be rocked from normal position into an inverse position.

1,681,606. FIREPLACE. JULIUS M. BLANCHARD, Oak Park, Ill., assignor of one-half to John W. Mabbs, Chicago, Ill. Filed Oct. 27, 1922, Serial No. 597,273. Renewed Apr. 13, 1928. 2 Claims. (Cl. 126—121.)

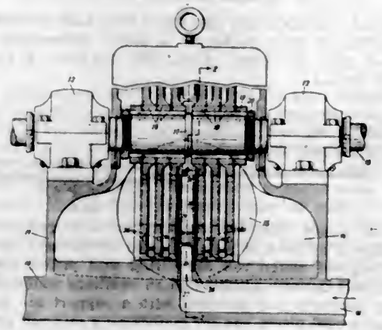
1. The combination with a fire-place having a built-in floor and an open front, of a heater therein comprising means forming a cold air inlet adjacent the said floor of the fire-place, a drum in the upper portion of the fire-place formed of upper and lower substantially horizontal reversible sections removably secured together, substantially straight pipes between and removably connected to the inlet

and the lower section of the drum, means forming a hot air outlet, and a connection between said outlet and the upper section of the drum, said connection being offset relative-



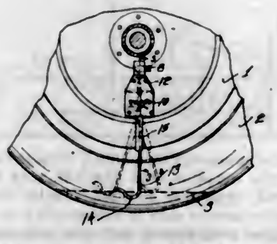
ly to the longitudinal center of the drum so that the position of the outlet may be changed by reversing the upper section relatively to the lower section.

1,681,607. REACTION TURBINE. WILLIAM SPENCER BOWEN, Westfield, N. J. Filed Sept. 2, 1927. Serial No. 217,146. 9 Claims. (Cl. 253—89.)



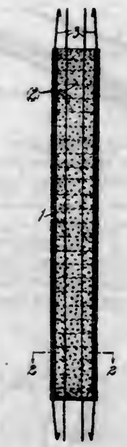
1. In a reaction turbine, embodying a plurality of stages: a shaft, a rotor member comprising a plurality of disks secured to the shaft having radially directed ports over one face and circumferential channels on the opposite face, the outer ends of the individual ports discharging into the said channels, and an annular cover plate secured to the first-named face of a disk.

1,681,608. DEFLATING INDICATOR. JOHN H. CLARK, Seattle, Wash. Filed July 5, 1927. Serial No. 203,476. 2 Claims. (Cl. 200—58.)



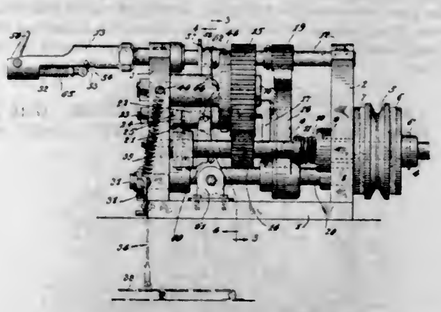
1. The combination with a housing and a circuit closer therein comprising a movable member, of a tappet pivotally supported in the housing, a tappet head on said tappet, and a complementary head on the movable member of the circuit closer, whereby when the tappet member strikes the ground the circuit is closed for the purpose described.

1,681,609. PILE AND PROCESS OF MAKING SAME. JOHN E. CONZELMAN, South Pasadena, Calif. Filed Jan. 15, 1926. Serial No. 81,472. 5 Claims. (Cl. 61—56.)



1. A reinforced concrete pile wherein the water line part thereof comprises an exterior shell of denser concrete than the body, said shell having longitudinal reinforcement whose ends are embedded in the concrete of the body.

1,681,610. MACHINE FOR TYING WIRE TIES. HENRY B. FOULDER, Glenbrook, Conn., assignor to J. P. Curry Mfg. Co., Inc., Stamford, Conn., a Corporation of New York. Filed Feb. 7, 1924. Serial No. 691,124. 9 Claims. (Cl. 140—119.)

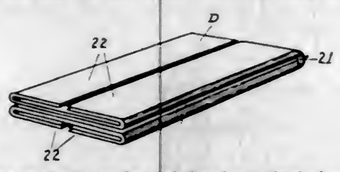


1. In an apparatus of the character described, in combination, a twisting head including a pivoted tie engaging member, a pin slidable on said head and engaging said member for placing said member in and out of tie retaining position, a rod slidably mounted in said head and a pivoted link connecting said rod and said slidable pin, and means for adjusting said rod forwardly and rearwardly in said head to pivot said tie engaging member into tie retaining and tie releasing positions.

1,681,611. FOLDED SHEETS OF MATERIAL. EMIL J. HANSEN, Green Bay, Wis., assignor to Fort Howard Paper Company, Green Bay, Wis., a Corporation of Wisconsin. Filed Sept. 12, 1924. Serial No. 737,281. 2 Claims. (Cl. 206—57.)

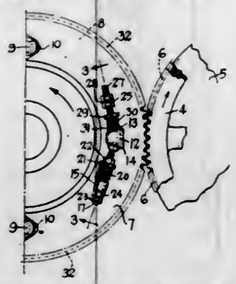
2. An element for use in a dispensing package, wherein the folded sheets are superimposed one upon the other, compris-

ing the following structure, namely, a body folded to form a plurality of tabs at the same side of the sheet and overlapping the body of said sheet, said tabs being in contact



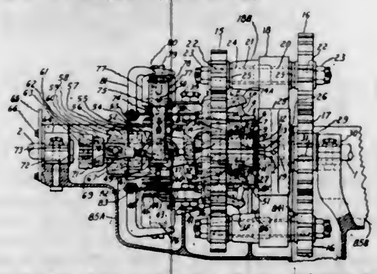
with the same side surface of the sheet, the body and tabs being further folded on a transverse line whereby the body will have two sets of exposed tabs on opposite sides thereof.

1,681,612. COMPENSATING-GEAR MECHANISM. CHARLES W. HARROLD, Cleveland, Ohio, assignor, by mesne assignments, to Harris-Seybold-Potter Company, Cleveland, Ohio, a Corporation of Delaware. Filed Mar. 28, 1924. Serial No. 702,547. 15 Claims. (Cl. 74—29.)



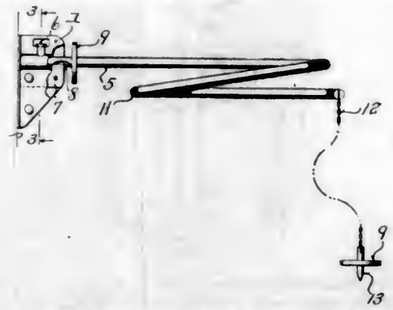
1. In a compensating gear mechanism, a rotary driven member, a drive gear carried thereby, means comprising a spring of heavy compression between said member and gear to rotate the member in one direction, a spring connection of relatively less compression between said member and gear to bring the former into normal rotary relation with the gear whenever said member is rotated out of said relation in an opposite direction, and means for adjusting the compression of either of said springs independently of the other.

1,681,613. POWER-CONTROL DEVICE. GAIL H. HINES, Lansing, Mich. Filed Feb. 2, 1927. Serial No. 165,407. 19 Claims. (Cl. 74—34.)



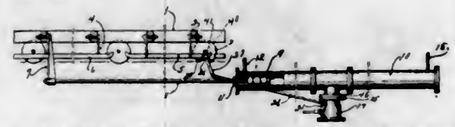
1. In a device of the class described, a driving shaft to be connected to the power source, a gear thereon, a driven shaft, a gear thereon, a gear assembly positively connecting the gears on the driving and driven shafts, said gear assembly including a countershaft and pinions revoluble about the axis of the driving shaft, a drum associated with the countershaft and pinions concentrically of the driving shaft and revolving therewith, in combination with centrifugally operating clutch members acting upon the driving shaft and in sliding contact therewith to control the speed of revolution of the countershaft and pinions whereby to vary gradually and automatically the ratio of speed transmission.

1,681,614. TOWEL CABINET. GEORGE M. HUBINGER, Milwaukee, Wis., assignor to Star Detachable Towel Holder Co., Milwaukee, Wis. Filed June 9, 1926. Serial No. 114,687. 3 Claims. (Cl. 211—6.)



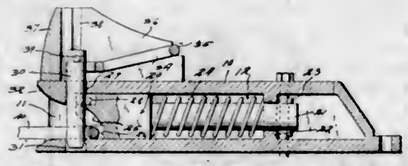
1. A towel dispensing device, comprising a bracket adapted for attachment to a support, a rod carried thereby and coiled upon itself to provide an extensive towel retaining portion, said coiled and storing portion causing the towels to interengage in the interior of the coiled portion and impede the progress of the towels from the looped portion.

1,681,615. AUXILIARY BEARING FOR SAW-CARRIAGE PISTON RODS. BOLESLAW A. JANIK, Milwaukee, Wis. Filed Mar. 28, 1927. Serial No. 179,010. 4 Claims. (Cl. 308—4.)



1. In a saw mill, the combination of a reciprocatory carriage, a cylinder, a piston located within said cylinder, an elongated piston rod connecting said piston and carriage, an auxiliary cylinder and an auxiliary piston cooperating therewith and provided with a support for directly engaging said piston rod for maintaining said rod straight and fluid pressure means controlled by said carriage for controlling the operation of said auxiliary piston to move said support into one position in engagement with said piston rod and into another position out of the way of said first mentioned piston.

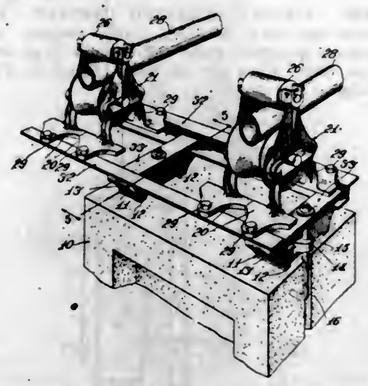
1,681,616. COUPLER FOR MINE CARS. ALBERT D. KOONTZ and AIDRIAN R. KOONTZ, Charleston, W. Va.; Clara B. Koontz, executrix of said Aidrian R. Koontz, deceased, assignors of one-third to Charles Lucas. Filed June 30, 1927. Serial No. 202,634. 1 Claim. (Cl. 213—202.)



A coupler for mine cars including a coupler head open at one end for the reception of a link, the head being vertically apertured, oppositely disposed angular bumper arms pivoted at their forward ends in said opening in the coupler head, the bumper arms having their rear ends urged toward each other by springs and said bumper arms acting to center a link disposed within the coupler head, a coupling pin insertible through said aperture, a buffer slidably mounted within the coupling head, a spring resisting rearward movement of the buffer, the buffer having a downwardly inclined end face recessed to receive the link, the inclined face being

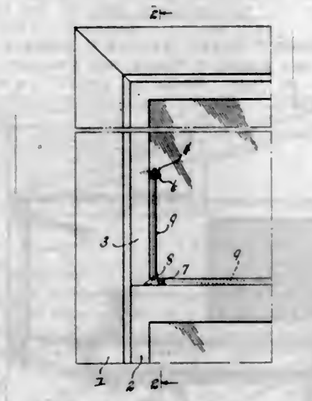
intersected by a slot for the coupling pin and the slot being formed to provide a ledge to support the coupling pin in a raised position, a coupling pin extending down through the head and adapted to engage the link inserted in the head, and manually operable means at one side of the coupling head whereby the pin may be raised.

1,681,617. SWITCH AND SIGNAL ROD OR PIPE-CARRIER SUPPORT. BENJAMIN F. LOLLIS, Berwyn, Ill., assignor of one-half to Otto S. Flath, Chicago, Ill. Filed Apr. 17, 1922. Serial No. 554,342. 1 Claim. (Cl. 248—30.)



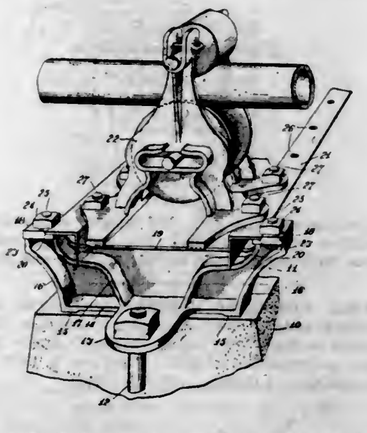
In combination with a foundation of pier, supporting means comprising a pair of long bars Z-shape in cross section, the lower horizontal sides of both bars being disposed laterally toward each other while the upper horizontal sides of both bars extend outwardly, an apertured spacing and clamping plate arranged intermediate of the Z-shape bars in lapping relation with the lower horizontal sides of both bars and in abutting relation with the vertically disposed intermediate portions of said bars, and a hook bolt passing through the aperture in said plate and engaging with the foundation or pier whereby said pair of bars are secured in place.

1,681,618. WINDOW FASTENER. LUKE EDWARD MURPHY, Milwaukee, Wis. Filed May 21, 1927. Serial No. 193,186. 2 Claims. (Cl. 292—194.)



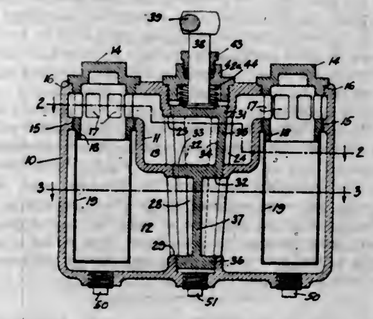
1. In a window latch, the combination of an upper and a lower sash, a rod carried by the lower sash and adapted to project upwardly, and a ring swingingly carried by the upper sash and adapted to be swung over the upper end of the rod, said ring being adapted to freely slide upon the rod and to limit the relative motion of the upper and lower sashes.

1,681,619. CARRIER SUPPORT FOR SWITCH AND SIGNAL RODS. JAMES C. MOCK, Detroit, Mich. Filed Nov. 15, 1924. Serial No. 750,186. 2 Claims. (Cl. 248—30.)



1. In a carrier support, a pedestal comprising an integral structure provided with a base having a side wall integral with one longitudinal side of the base, upwardly extending end walls terminating in horizontal surfaces adapted to extend beyond the vertical plane of and above said side wall, the horizontal top surfaces of the ends and upper edge of said side wall at points adjacent to the ends being each provided with abutting surfaces for the longitudinal edges of carrier supporting rails.

1,681,620. STRAINER. ALBERT W. MORSE and WALTER E. WOLLHEIM, New York, N. Y.; said Wollheim assignor to The Anthony Company, Long Island City, N. Y., a Corporation of New York. Filed July 30, 1927. Serial No. 209,455. 6 Claims. (Cl. 210—168.)

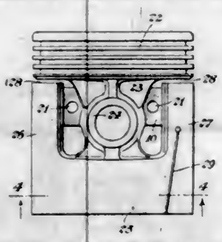


1. A strainer for liquids comprising a structure having an inlet, an outlet and a steam connection, a pair of strainer screens interposed in passages between the said inlet and outlet, and a key having means for shutting off one of the screens from the said inlet and outlet and means for admitting steam from the said steam connection to that screen only which is shut off.

1,681,621. PISTON. ADOLPH L. NELSON, Detroit, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Filed June 22, 1927. Serial No. 200,534. 2 Claims. (Cl. 74—108.)

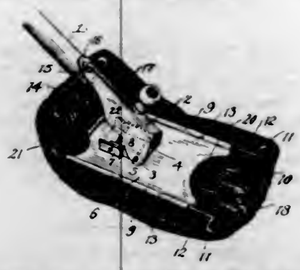
1. A piston having a head, piers depending from the head, piston pin bearings formed in the piers, cylinder-bearing portions on opposite sides of the piston, a pair of chordal struts, each of said struts extending between the

cylinder-bearing portions, the intermediate portion of each strut being surrounded by the material of a pier, there being an integral connection between each of the cylinder-bear-



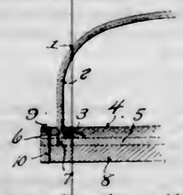
ing portions and each pier, said integral connection being in addition to the struts and being continuous and homogeneous with the cylinder bearing portions and the piers.

1,681,622. COMBINED MOP AND WRINGER. MILO C. NEWTON and JOSEPH A. GREMLING, Delphos, Ohio, assignors to The E. & N. Manufacturing Company, Delphos, Ohio, a Corporation of Ohio. Filed Jan. 5, 1927. Serial No. 159,074. 4 Claims. (Cl. 15—120.)



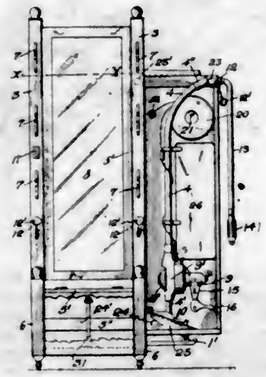
1. A wringer mop comprising a handle, means for supporting the rear end of a mop cloth comprising a wringer member rotatably mounted on the handle rearwardly of the forward end of the handle, means for supporting the front end of the cloth and for pressing the same against the floor in mopping, comprising a substantially flat elongated sheet metal plate having its longitudinal edges bent to form hollow beads, a cloth holding bar formed of wire and having a transverse cloth receiving portion and end portions adapted to fit within the hollow beads of said plate, and a pivotal connection between the forward end of the handle and said plate, the rear edge of the plate being engageable with the handle to limit the downward and rearward movement of the forward end of the plate and rigidly hold the plate during the wringing operation, the forward edge of said plate being cut away between the beads to provide a recess of sufficient depth at the rear of said bar to accommodate the cloth when twisted to cylindrical form so as to permit the cloth to twist to the forward end thereof without binding against said plate.

1,681,623. STITCH-DOWN SHOE AND METHOD OF MAKING THE SAME. SIGMUND JOSEPH PENTLER and OTTO R. SHORT, Wausau, Wis. Filed Oct. 30, 1923. Serial No. 671,700. 3 Claims. (Cl. 36—16.)



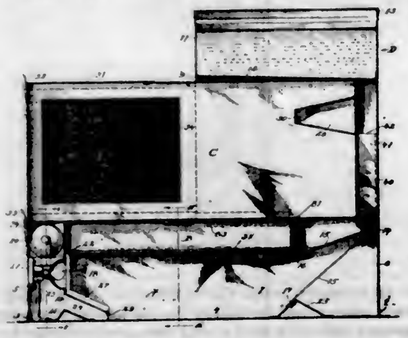
1. In a stitch-down shoe, the combination of an upper and a lining, an inner sole having a beveled lower marginal edge, said lining having its marginal portion positioned against this beveled edge, securing means joining said lining and said inner sole, said securing means extending only through said lining and said inner sole, said upper being turned outwardly at its marginal portions, a doubler positioned in contact with the inner sole throughout the extent of the inner sole, securing means joining the outturned portion of said upper and said doubler, an outer sole positioned below said doubler, a welt strip positioned above said outturned portion, and a line of stitching passing through said welt strip, said outturned portion, said doubler and said outer sole.

1,681,624. AIR-WAY CLEANING CABINET. DANIEL BENSON REPLOGLE, Berkeley, Calif., assignor to The Commerce Guardian Trust and Savings Bank, trustee, Toledo, Ohio. Filed Oct. 29, 1921. Serial No. 511,351. 6 Claims. (Cl. 15—2.)



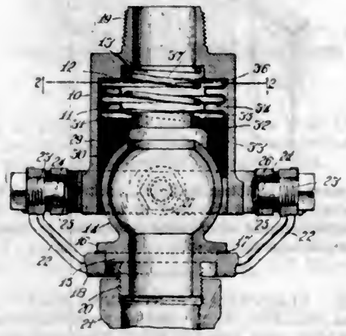
5. In combination with a suction cleaner having a handle with a passage therethrough and a suction inlet, a suction hose pipe, and supporting means for said suction cleaner and said hose pipe, said supporting means having an upwardly extending part adjacent the handle of the cleaner provided with means for suspending the suction hose pipe on said support and with means for operatively connecting the suction inlet of the handle with said suspended hose pipe.

1,681,625. INSECT TRAP. WILLIAM O. ROBERTS, Houston, Tex., and ROBERT J. KEAYS, San Francisco, Calif. Filed May 18, 1926. Serial No. 109,877. 4 Claims. (Cl. 43—113.)



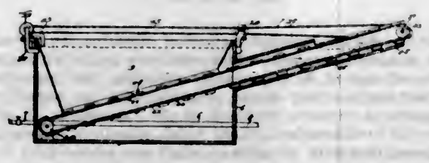
1. A device of the character described comprising a casing having a chamber formed therein into which insects may enter through an entrance opening, means within the chamber to attract insects, a container provided with a trap chamber, means for intermittently and automatically closing the entrance opening, and means for lighting the chamber and for driving the insects into the trap chamber.

1,681,626. FLEXIBLE PIPE JOINT. EDWARD A. RUSSELL, Chicago, Ill., assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a Corporation of New York. Original application filed Jan. 19, 1925, Serial No. 1,407. Divided and this application filed Feb. 27, 1926. Serial No. 91,150. 7 Claims. (Cl. 285—93.)



1. In a flexible pipe connection, a socket member having a substantially cylindrical recess, a ball member projecting within this recess, connecting means for holding the ball centered within but out of contact with the socket member and permitting free angular movement thereof, a gasket freely slidable within the recess and bearing at one end against the ball member, a sealing device comprising an annular follower behind the gasket, an annular plate clamped into the socket member, and a flexible sealing member secured at opposite edges to the follower and the plate.

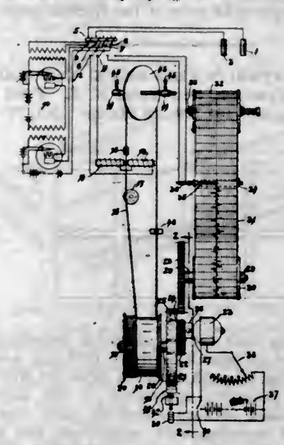
1,681,627. PROCESS AND APPARATUS FOR CLEANING BERRIES. JOSEPH W. SAWYER, Millbridge, Me. Filed Dec. 15, 1922, Serial No. 607,211. Renewed Mar. 19, 1927. 10 Claims. (Cl. 209—178.)



2. The method of separating ripe berries from unripe berries and trash, consisting in subjecting the berries and trash to an aqueous bath at a temperature of about 115° for the purpose of removing the air bubbles from the exterior surface of the berries.

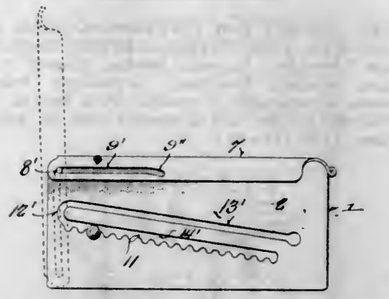
1,681,628. ELECTROCARDIOGRAPH. ERICH SCHWARZKOPF, Long Island City, and GERHARD WODTKE, New York, N. Y. Filed Sept. 16, 1926. Serial No. 135,785. 3 Claims. (Cl. 234—1.5.)

1. In a device for making a record by differently magnetizing a wire by passing it between two magnets, means for reversing the movement of the wire between said magnets, means for amplifying the current produced by



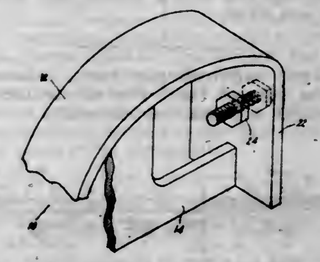
the reverse movement of the wire between said magnets and means for graphically recording the record on the wire in the reverse sense.

1,681,629. CARD FILE. FRED M. SHOTWELL, Detroit, Mich., assignor to Herman W. Krueger, trustee, Green Bay, Wis. Filed Aug. 6, 1927. Serial No. 211,127. 8 Claims. (Cl. 129—26.)



2. A card, letter, or document file provided with inclined tracks in its sides, and a follower slidably guided in said tracks.

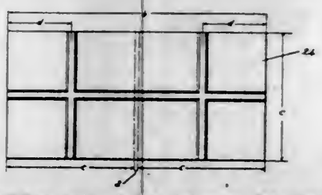
1,681,630. VEHICLE WHEEL BRAKE. GEORGE JOSEPH THOMAS, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 4, 1924, Serial No. 747,707. Renewed June 27, 1928. 7 Claims. (Cl. 188—250.)



5. A brake shoe having an outer friction part and a stiffening web jointly forming a T-section shoe, and with the web cut away at one end to form a recess and the

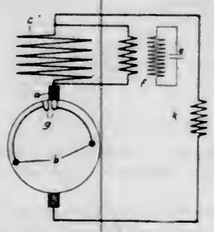
end of said friction part extending inwardly across said recess, in combination with a thrust part threaded through the inwardly-extending part of the friction part.

1,681,631. INTERLOCKING-BRICK CONSTRUCTION. DOMINICK TAMBONE, New York, N. Y. Filed Apr. 10, 1926. Serial No. 101,199. 9 Claims. (Cl. 72—38.)



1. A building unit of the character described, having a substantially rectangular outline with top and bottom surfaces, having a length equal to twice its width plus a predetermined quantity equivalent to the thickness of mortar interposed between adjoining units, one of said surfaces being provided with projections and the other with corresponding depressions, permitting interlocking of one unit with another when superimposed thereon so as to totally cover its surface and also permitting interlocking of one end of one unit with one end of another when partly superimposed thereon, a longitudinal sense, the end surface of each unit limiting the interlocking section, remaining at a distance equal to the width of each unit from the end surface of the other.

1,681,632. MEANS FOR SUPPRESSING HIGH HARMONICS IN COMMUTATING ELECTRIC MACHINES. ARLE YTTERBERG, Vasteras, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Corporation of Sweden. Filed June 22, 1922, Serial No. 570,258, and in Sweden June 30, 1921. 4 Claims. (Cl. 171—97.)



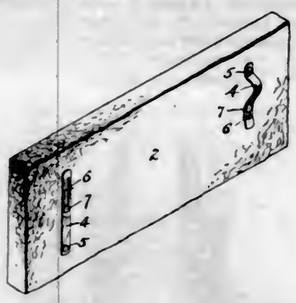
1. The combination, with a commutating electric machine operating on an external closed circuit and having an exciting winding connected to said circuit and taking up a fraction of the total voltage of the machine, of a circuit shunting the exciting winding only, and a condenser in said circuit.

1,681,633. AUTOMOBILE JACK. LAWRENCE E. BEOUGHER, Lynwood, Calif. Filed May 10, 1927. Serial No. 190,283. 8 Claims. (Cl. 254—127.)



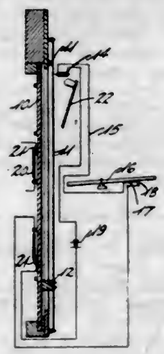
1. An automobile jack comprising a main frame mounted on wheels and adapted to be positioned under the automobile, and means for alternatively raising either end or both ends of said frame and the automobile by moving said wheels toward each other, as desired.

1,681,634. SPOT ANCHOR. GOTTFRIED H. BINDER, Orange, N. J. Filed Oct. 14, 1927. Serial No. 226,065. 3 Claims. (Cl. 72—19.)



2. A piece of building material, a sheet metal strip secured flatwise against the back of said piece, the intermediate portion of said strip being deformable to form a loop for an anchorage for cement.

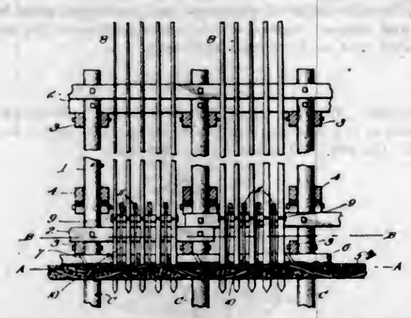
1,681,635. ELECTRICAL SOSTENUTO PIANO. SIMON COOPER, Brooklyn, N. Y. Refiled for application Serial No. 562,269, filed May 19, 1922. This application filed Jan. 18, 1923. Serial No. 613,534. 18 Claims. (Cl. 84—261.)



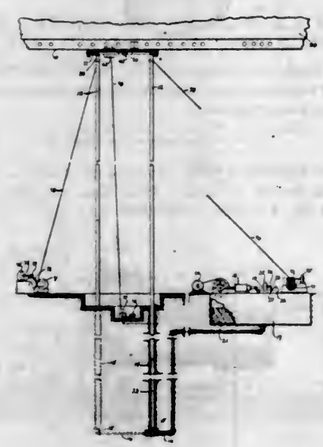
1. The herein described method of vibrating the strings of a musical instrument which comprises producing pulsations of current in magnets for vibrating the respective strings and locating circuit controllers for the respective magnets on vibratile portions of the instrument at empirically predetermined points which vibrate in a definite time relation with the strings which are actuated by the respective magnets, and in accordance with such empirical determinations locating different magnets for coaction with different strings in such manner that a controller having a vibration-location causing its magnet to have a more advantageous coaction with one string than another, will have its magnet arranged to coact with the first of the two last-mentioned strings.

1,681,636. DIKE OR REVETMENT. ASA W. FARNEY, Clay County, Mo. Filed May 2, 1927. Serial No. 188,194. 5 Claims. (Cl. 61—3.)

1. The method of producing a dike in a stream, comprising the sinking of upright piles to a sufficient depth in the bed of the stream for their proper anchorage, the formation of a mat upon the water and around and between the piles, the placing of a longitudinal series of upright screen poles in fixed relation to the mat, the connecting of a cross bar to the said screen poles at a point above the level of the stream, and the connecting of such bar to the mat by substantially upright wiring.



1,681,637. AIRCRAFT LANDING AND HOUSING DEVICE. CHARLES S. HALL, Oakland, Calif. Filed Jan. 11, 1926. Serial No. 80,466. 11 Claims. (Cl. 244—2.)



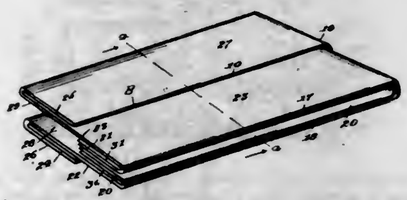
3. In an aircraft landing device, a landing platform, means to raise and lower said platform, means to turn said platform, means to engage an aircraft and move it to the platform, other means to engage the aircraft after it is on the platform, a cabin on the platform and controls in said cabin for controlling all of said means.

4. In an aircraft landing device, a platform, means on the platform for engaging an aircraft, means for raising said platform, flexible means for lowering said platform, and means for constantly bracing said platform while it is being moved.

1,681,638. REFINING HYDROCARBON OILS. HIRAM J. HALLE, New York, N. Y., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed May 12, 1920, Serial No. 380,762. Renewed Feb. 12, 1927. 3 Claims. (Cl. 196—36.)

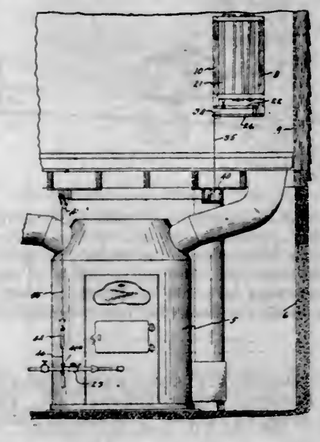
3. The step in a process for refining hydrocarbons which comprises passing the hydrocarbons being treated while in vaporous form through a sulphuric acid solution in excess of concentration of 20% and not exceeding 55%.

1,681,639. SHEET OF FOLDED MATERIAL. EMIL J. HANSEN, Green Bay, Wis., assignor to Fort Howard Paper Company, Green Bay, Wis., a Corporation of Wisconsin. Original application filed Sept. 12, 1924, Serial No. 737,281. Divided and this application filed Nov. 1, 1926. Serial No. 145,565. 2 Claims. (Cl. 206—57.)



1. An element designed for use in a dispensing package, wherein the folded sheets are superimposed one upon the other, comprising the following structure, namely a folded sheet of material, as an article of manufacture, including a blank initially folded along a median line to present a double half sheet, again folded along lines parallel to the median line, reversey to opposite sides of the doube half sheet, and finally folded on a transverse median line to present double thickness coextensive tabe on opposite sides along one longitudinal edge of the sheet.

1,681,640. HEAT REGULATOR. CLARENCE H. HAPGOOD, Toledo, Ohio, assignor, by mesne assignments, to The C. H. C. Co., Toledo, Ohio, a Corporation of Ohio. Filed May 2, 1925. Serial No. 27,359. 16 Claims. (Cl. 236—9.)

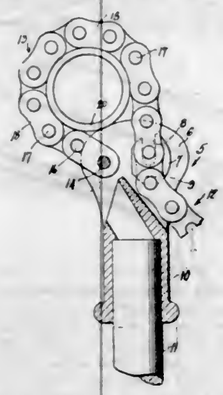


1. A heat regulator for buildings including a burner, a valve arranged to control the admission of fuel to the burner, an operating arm secured adjacent one extremity to the valve and having a slot in its free extremity, a thermostat, a multiplying lever mounted to be actuated thereby, a flexible member suspended from the lever, and a weighted contact member carried by the flexible member and extending through the slot of said operating arm, whereby the contact member and operating arm will be moved to vary the position of the valve in accordance with the alterations of length of the thermostat.

1,681,641. PIPE WRENCH. OSCAR JOHNSON, New York, N. Y. Filed June 8, 1926. Serial No. 114,387. 1 Claim. (Cl. 81—69.)

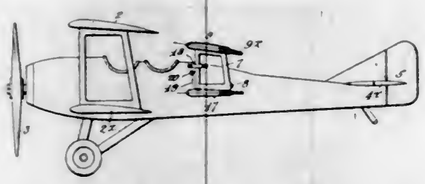
A pipe wrench adapted to revolve a pipe in either of two directions without removing the wrench therefrom, comprising a head, a chain secured to one end of said head,

pins projecting from said chain, and a catch member on said head provided with an upper locking slot to receive one of said pins when it is desired to revolve the pipe in



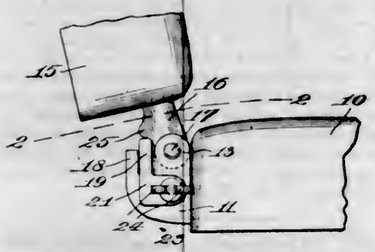
one direction, and a lower locking slot to receive another of said pins when it is desired to revolve the pipe in the opposite direction.

1,681,642. AEROPLANE. AUBREY M. KENNEDY, Los Angeles, Calif. Filed Aug. 25, 1926. Serial No. 131,325. 4 Claims. (Cl. 244—12.)



1. An aeroplane comprising a fuselage, propelling and guiding means, a primary wing structure, and an auxiliary wing structure smaller than the primary wing structure and mounted at the rear and independently of the latter, said auxiliary wing structure comprising a wing having telescopic sections and means for relatively adjusting said sections.

1,681,643. ADJUSTABLE SEAT BACK FOR AUTOMOBILES. ROBERT M. KIMBRO, Calexico, Calif. Filed Oct. 20, 1926. Serial No. 142,836. 2 Claims. (Cl. 155—160.)



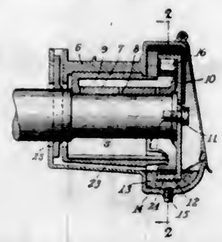
1. The combination with a seat and seat back, of a hinge member projecting rearwardly from the seat, a hinge member secured to the lower portion of the seat back and pivotally connected to the first mentioned hinge member, a stepped plate supported by and mounted for lateral adjustment upon the hinge member that projects from the seat, which stepped plates underlies the hinge member that is connected to the seat back and serves to support the same in differently adjusted positions, and a stepped plate bearing and support formed on the outer portion of the hinge member that projects from said seat.

1,681,644. RADIO GROUND ANTENNA. WILLIAM S. MAPLE, Los Angeles, Calif. Filed Apr. 20, 1927. Serial No. 185,168. 7 Claims. (Cl. 250—33.)



1. In a radio ground antenna, a metal container and a mixture of copper sulfate, sodium chloride and carbonate of soda within said container.

1,681,645. LUBRICATOR. CARLOS E. PADILLA, Bogota, Colombia, South America. Filed Nov. 24, 1925. Serial No. 71,115. 4 Claims. (Cl. 308—86.)

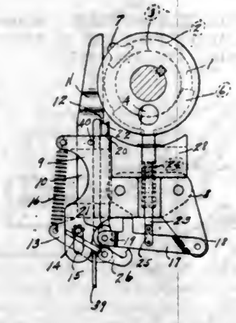


1. In a lubricator, the combination of the following elements; a disk provided with a ring flange; a scraping member pivotally mounted, and provided at one end with means for removing lubricant from the interior surface of the said ring flange, and at the other end with counter-balancing means adapted to hold the scraping end in contact with the said ring flange; means for conducting the removed lubricant to a desired point; means adapted to convey lubricant discharged from the exterior surface of the said ring flange to the inner surface of the said flange, and comprising downwardly and inwardly extending troughs adjacent the said exterior surface of the ring flange; and a drip lip mounted above the bottom section of the said interior surface of the ring flange.

1,681,646. SAFETY DEVICE FOR POWER PUNCH PRESSES. JOHN ELIAS PAPAS, Chicago, Ill. Filed Jan. 30, 1925. Serial No. 5,715. 3 Claims. (Cl. 192—129.)

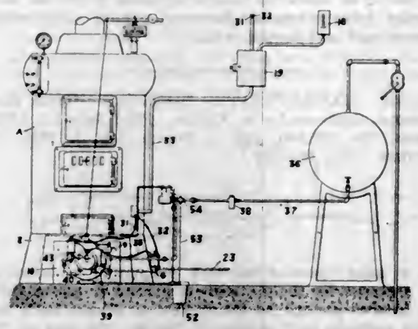
1. A safety device for power punch presses, comprising the combination with a clutch mounted on a flywheel, a dog

for disengaging said clutch from said flywheel and a dependent stem positioned on said dog, of a block casting having a tripper arm slidingly mounted through one end; a rocker arm pivoted to the opposite side of the casting; a trip operating lever pivotally mounted on the rocker arm,



slidingly mounted through the casting adapted to normally engage the tripper arm; and a lug mounted on the clutch for disengaging the tripper arm from the trip operating lever; said stem being pivoted to the rocker arm and slidingly mounted through the casting.

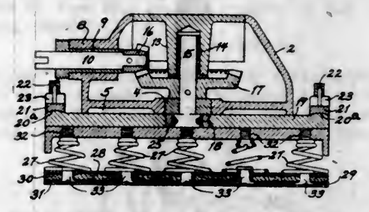
1,681,647. OIL BURNER. WILLIAM R. RAY, San Francisco, Calif. Filed May 5, 1923. Serial No. 636,965. 3 Claims. (Cl. 158—28.)



1. The combination with an electric motor driven oil burner of the character described and a gas feed-pilot burner cooperating therewith, of means for maintaining a continuous flow of gas to the pilot burner, a valve cooperating with the pilot burner adapted to increase or decrease the flow of gas to the pilot burner, and an electro-magnet adapted to open and close the valve, said magnet being responsive to the starting current flowing to said motor and adapted to momentarily open the valve in response to said current when a circuit through the motor is closed, said magnet being non-responsive to the running current of the motor.

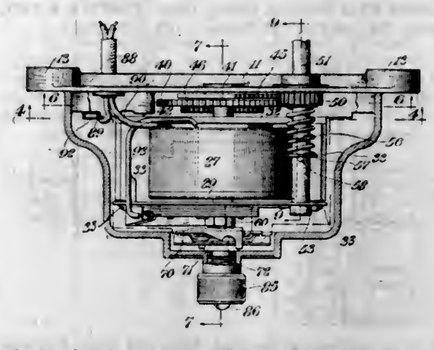
1,681,648. RUBBING MACHINE. CHARLES S. ROOT, Springfield, Mass. Filed Oct. 30, 1925. Serial No. 65,758. 2 Claims. (Cl. 51—189.)

2. In a rubbing machine, a casing, a plurality of helical springs arranged with their small ends uppermost and having said ends attached to said casing, flexible sheets and an intermediate yielding pad, means to secure said sheets and pad to said springs at their bottom ends, and a flexible sheet secured to the under side of the lower of said first-named sheets and covering said securing means, said springs, sheets, and pad forming a cushion for a finishing



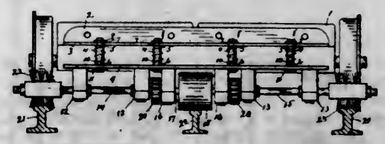
strip, and being unattached except by the small ends of said springs to said casing, whereby great freedom of movement in all directions is permitted to said cushion.

1,681,649. IMPULSE ELECTRIC MOTOR. JAMES T. SIBLEY, New York, N. Y., assignor to S. & U. Holding Company Inc., New York, N. Y., a Corporation of New York. Filed Sept. 30, 1926. Serial No. 138,672. 10 Claims. (Cl. 172—36.)



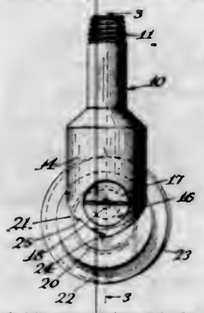
1. An electric motor comprising a field magnet, a rotor therefor, a supporting plate associated with the field magnet, plates carried by the supporting plate and insulated therefrom and from each other, said plates being in the circuit of the field magnet, normally separated arms on said plates and carrying contacts, and a cam on the rotor shaft for intermittently closing the contacts.

1,681,650. RAIL BRUSH FOR ELECTRIC CARS. OWEN P. SMITH, deceased, Miami, Fla., by Hannah M. Smith, administratrix, Miami, Fla. Filed Mar. 17, 1927. Serial No. 176,222. 2 Claims. (Cl. 15—55.)



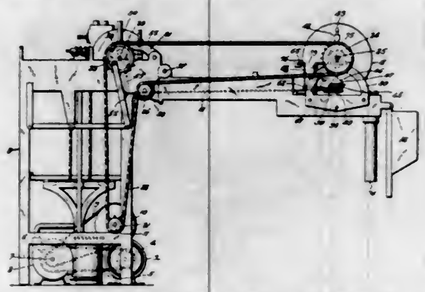
1. In combination with a rail car for operation upon rails, spaced transversely disposed upper and lower plates on the forward end of said car, the upper one of said plates being stationary and the lower one being movable, springs interposed between the upper and lower plates and normally urging the lower plate downwardly, a power shaft carried by the movable plate, driven shafts carried by the same plate and having means thereon for receiving power from the power shaft, brushes on the outer end of each driven shaft yieldingly engaging the rails, and means for rotating the power shaft.

1,681,651. ROTARY-DISK ECCENTRIC BIT. SHELLEY G. WOODRUFF, Inglewood, Calif. Filed July 1, 1925. Serial No. 40,857. 10 Claims. (Cl. 255—76.)



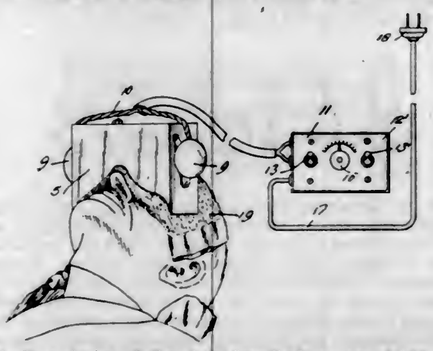
1. A rotary disk bit comprising a body having depending arms, members rotatable upon said arms, eccentrics detachably secured to said members, and disk cutters rotatable upon said eccentrics.

1,681,652. DUPLICATING-MACHINE DRIVE AND FEED. LESTER KYLE ALDRICH, Sidney, Ohio. Filed Jan. 5, 1927. Serial No. 159,137. 28 Claims. (Cl. 101—233.)



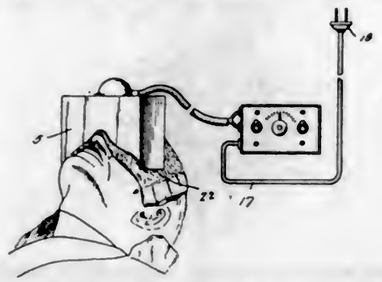
1. In a duplicating machine drive and feed, the combination of a feeder having a motor and sheet feeding mechanism, a duplicating machine supported by the feeder, and a duplicating machine drive actuated by the motor of the feeder and including a shaft having a driving arm located at one side of the duplicating machine and provided with means for engaging the hand crank of the duplicating machine.

1,681,653. CATARACT ABSORBER. ALBERT ASLESON, Redwood Falls, Minn. Filed June 13, 1927. Serial No. 198,644. 3 Claims. (Cl. 174—177.)



1. In a device of the class described, an eye shield, a pair of electric light bulbs arranged therein, each of said bulbs being disposed respectively above the eyes of a patient, a switch box, and a pair of switch elements arranged therein and connected respectively to the bulbs for selective operation of either thereof and a rheostat arranged in the switch-box and interposed between said bulbs and said switch elements.

1,681,654. CATARACT ABSORBER. ALBERT ASLESON, Redwood Falls, Minn. Filed Aug. 19, 1927. Serial No. 214,134. 1 Claim. (Cl. 174—177.)



In a cataract absorber, an eyeshield having its lower edge shaped to conform with the contour of the eyes of a person, a partition removably secured within the shield adjacent the lower edge thereof, a pair of electric heating coils mounted within the shield, a heat insulating lining for the top and side portions of the shield, a switchbox remote from the shield, a pair of switch elements operatively arranged within the box and connected respectively to said heating coils whereby to selectively control the same and an electric rheostat mounted within the switchbox having an operating handle extending therefrom, said rheostat being interposed between each of said switch elements and said heating coils.

1,681,655. HAND-OPERATED DIESTOCK. HENRI BERNAUDIN, Cosne-sur-Loire, France. Filed July 12, 1926, Serial No. 121,960, and in France Aug. 7, 1925. 2 Claims. (Cl. 10—127.)

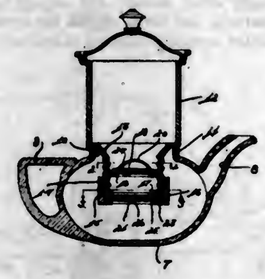


1. A hand operated die-stock comprising in combination a carrier for the die, a die supported by said carrier, two handles pivoted to the carrier at diametrically opposite positions with respect to the die, the axes of the pivots being disposed at right angles to the axis of the die, interconnecting means between the pivoted handles for ensuring equal angular movement of the handles in opposite directions, and guide members attached to the handles, the extremities of said guide members being disposed opposite each other and at equal distances from the axis of the die.

1,681,656. COFFEE PERCOLATOR. HENRY C. BIETTE, Detroit, Mich., assignor of twenty per cent to John S. Longtin, Wyandotte, Mich., and ten per cent to Ernest C. Schaffer, Detroit, Mich. Filed Oct. 13, 1927. Serial No. 225,891. 1 Claim. (Cl. 53—3.)

A coffee percolator of the class described, comprising: a lower container having its upper end open and provided with an upwardly directed flange around said opening; an upper container; an inwardly flared base on said container, inwardly of the marginal edges thereof, to provide a shoulder for engaging the upper edge of said flange; an interiorly and exteriorly threaded neck depending centrally from said base and extending into said lower container; an inwardly directed flange on the lower end of said neck; a ring threadable on the exterior of said neck;

an inwardly directed flange on the lower end of said ring; a filter member engaging the lower end of said neck; a perforated disc engaging the undersurface of said filter, the inwardly directed flange on said ring retaining said

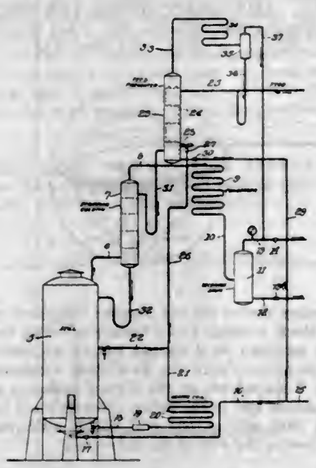


perforated disc and said filter in engagement with the lower end of said neck; and a perforated disc threadable into said neck for compressing coffee therein against said filter and disc, said threadable perforated disc having a concave center.

1,681,657. OIL-SOLUBLE NAPHTHENIC COMPOUND. OSCAR E. BRANSKY, Whiting, Ind., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Illinois. Filed Oct. 29, 1923. Serial No. 671,478. 6 Claims. (Cl. 260—108.)

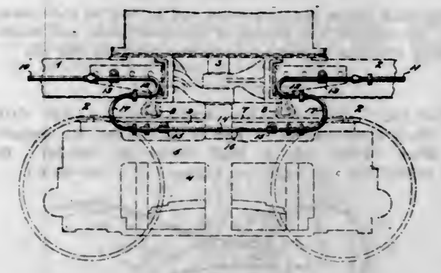
1. The method of preparing naphthenic acid bodies from oils which comprises treating such oils with aqueous alkali solutions and washing the oil with a diluted alcohol.

1,681,658. APPARATUS FOR CONVERTING HYDROCARBON OILS. OSWALD C. BREWSTER, Casper, Wyo., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed June 20, 1925. Serial No. 38,514. 7 Claims. (Cl. 196—104.)



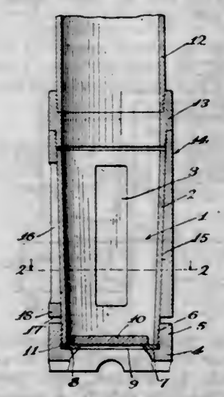
1. In apparatus for the conversion of hydrocarbon oils, a chamber adapted to contain a body of oil, means for heating said body of oil whereby said body of oil is maintained at conversion temperatures, means for conducting vapors away from said chamber, a separate chamber adapted to contain oil, means for passing heated oil from said chamber to said separate chamber whereby the oil in said separate chamber is brought to oxidizing temperature, means for supplying fresh oil to said separate chamber, means for supplying an oxidizing gas in said separate chamber whereby the oil supplied thereto is brought to conversion temperatures, and means for conveying the heated oil from said separate chamber to said oil containing chamber.

1,681,659. AIR-PIPE CONNECTION FOR ARTICULATED CARS. ALFRED T. CLARK, HENRY A. LEONHAUSER, and JOHN R. JESTER, Baltimore, Md. Filed June 28, 1927. Serial No. 202,104. 14 Claims. (Cl. 105—4.)



1. In an articulated car embodying pivotally connected sections and a truck beneath the pivot, an air system including rigid pipes carried by the car sections, rigid pipes carried by the truck, and flexible connections between the first and second named pipes.

1,681,660. BAILER. CLAUDE E. COLESTON, McKittrick, Calif. Filed Nov. 10, 1926, Serial No. 147,455. Renewed Jan. 30, 1928. 6 Claims. (Cl. 166—19.)

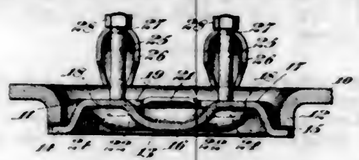


3. A bailer comprising in combination, a tube having a coupling connected thereto, a bucket supporting structure having a vertical wall secured to the coupling and said wall having a lateral opening, a bucket having a vertical wall with a lateral opening fitting inside the supporting wall and sustained thereby, a shoe connected to the bucket wall having a trap, the bucket being slidable and rotatable in the supporting wall.

1,681,661. CLOSURE. JOSEPH H. DILLON and HOWARD H. FAIRWEATHER, Coatesville, Pa., assignors to Bethlehem Steel Company. Filed June 1, 1925. Serial No. 33,967. 4 Claims. (Cl. 220—23.)

1. A closure device comprising an imperforate cover-plate, having a flanged edge, a depressed central portion,

a hollow rib between the central depressed portion and the flanged edge, and recesses formed in the hollow rib at opposite sides of the depressed portion, and a handle



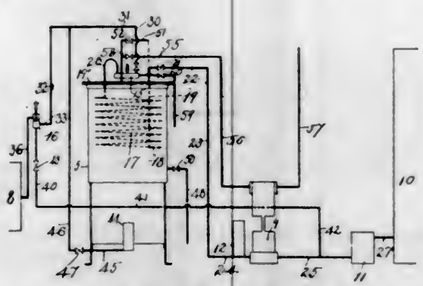
extending across the depression and having its ends seated in the recesses and welded to the cover-plate, said handle being disposed in substantially the plane of the rib.

1,681,662. PISTON-RING EXPANDING AND CONTRACTING PLIERS. ROY D. DOUGLASS, Minneapolis, Minn. Filed July 5, 1923, Serial No. 649,767. Renewed Jan. 20, 1928. 4 Claims. (Cl. 29—86.4.)



1. A pair of pliers, the jaws of which are channel-shaped in cross section and having on their outer ends sleeve-like holders, and tips removably telescoped in said sleeve-like holders and having work-engaging lips.

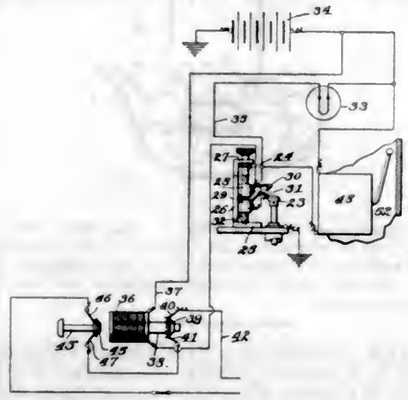
1,681,663. AUXILIARY FUEL-OIL HEATER. ROBERT FAICKNEY, Glasgow, Scotland, assignor to Bethlehem Shipbuilding Corporation, Quincy, Mass., a Corporation of Delaware. Filed Oct. 26, 1922. Serial No. 597,086. 9 Claims. (Cl. 158—36.)



1. In apparatus for heating and supplying oil to a main furnace burner the combination of an auxiliary heating chamber, means to introduce water thereinto, means for raising the water to a vaporizing temperature in the auxiliary chamber, an oil container disposed in the upper part of the auxiliary chamber, means to force fuel oil through said container in heat exchanging contact with the water vaporized in the auxiliary chamber, a vapor conduit connecting the auxiliary chamber with the forcing means, whereby the latter may be operated by the steam generated in the auxiliary chamber, and means to conduct the heated fuel oil from the container to the burner.

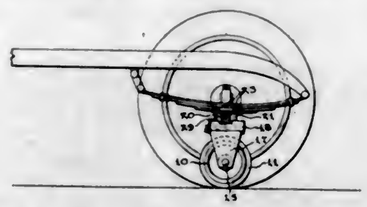
1,681,664. VEHICLE SPEED CONTROL. CHARLES GOBB, Los Angeles, Calif. Filed Oct. 18, 1922. Serial No. 595,432. 2 Claims. (Cl. 175—355.)

1. In a device of the character described, a reciprocal stem, a piston on said stem, a tube encircling said piston, an impeller wheel for directing a flow of liquid through said tube to advance said piston and stem, means for retracting said stem, means whereby said impeller wheel may be driven by the propulsion of a vehicle, a wiper contact carried by said stem, a pair of contact members arranged in offset relation in the path of travel of said wiper contact, whereby said wiper contact will engage said contact members successively, and screw means for collectively adjusting said contact members relative to said wiper contact.



2. In a device of the character described, a solenoid, a solenoid core, a switch in an ignition circuit controlled by said core, means controlled by the propulsion of a vehicle for energizing said solenoid, said solenoid adapted when energized to open said switch, a push button adapted to be operated to close said switch, and a second ignition circuit switch controlled by said push button operable on advance of the push button to open the switch, said push button being adapted on being advanced to close the switch controlled by the solenoid.

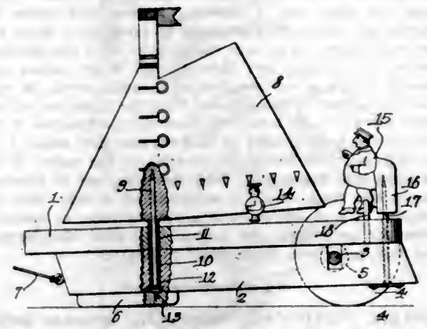
1,681,665. EMERGENCY WHEEL FOR VEHICLES. URLES JAMES HAYNES, Pascola, Mo. Filed May 7, 1927. Serial No. 189,627. 1 Claim. (Cl. 280—150.)



An emergency device for the purpose indicated comprising an axle block, a roller, and a hanger in which the roller is rotatably mounted, said hanger having an interlocking detachable connection with the axle block consisting of a transversely T-shaped rib on the former engaging a correspondingly shaped slot in the latter, the axle block having a wall closing said slot at one end and a swinging plate releasingly closing the slot at the other end.

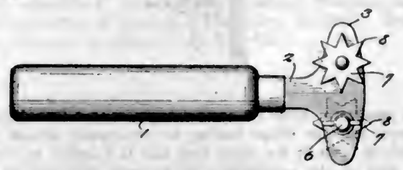
1,681,666. FIGURE WHEELED TOY. ALBERT L. HIGGINS, Bar Harbor, Me. Filed Jan. 7, 1927. Serial No. 159,646. 2 Claims. (Cl. 46—45.)

1. A figure wheeled toy including a body, a runner at the front end thereof for sliding contact with a supporting surface, a pull cord connected to the front end of the body, oppositely mounted eccentric wheels supporting the rear end of the body constituting means, when rotated, for imparting a tilting movement to the body in all directions, said body, when tilted, moving about the point of contact between the runner and the supporting surface, members supported by the body and mounted to swing freely about



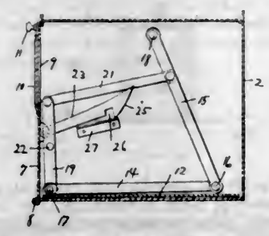
an axis extending upwardly from the body, said body, when tilted by the wheels, constituting means for oscillating the members, and means on the body cooperating with the members for limiting the movement of the members and producing a noise.

1,681,667. MARKING TOOL. WILLIAM B. JOHNSTON and JOHN R. CARMAN, Chadron, Nebr. Filed Mar. 6, 1926. Serial No. 92,917. 1 Claim. (Cl. 12—103.)



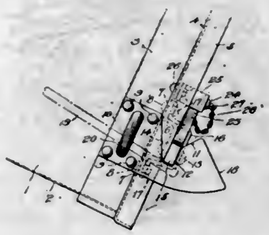
A tool of the class described including a head, a guide portion extending therefrom for sliding engagement with one edge of the work, a centrally supported disk adjustably connected to and located at one side of the head, a work engaging device carried by the disk adjacent the periphery thereof, and means extending from the head for engaging the disk to hold it against rotation relative to the head and maintain the work engaging means in operative position.

1,681,668. OVEN FOR COOKING STOVES. WILLIAM JORDAN, Lancaster, Nebr. Filed Sept. 2, 1927. Serial No. 217,156. 3 Claims. (Cl. 126—340.)



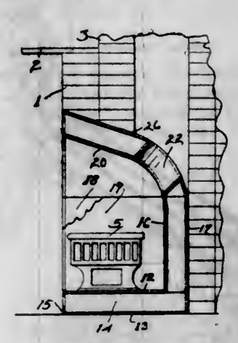
1. In a cooking stove, an oven, the front side thereof being open, the door therefor hingedly secured to the lower edge of the oven, a plate adapted for horizontal slidable movement in the oven, a pair of pivotally connected links secured to the forward edge of the plate and each side of the oven respectively, a vertically disposed arm pivotally secured at its lower end to each side of the oven adjacent the open front side thereof, means for operatively connecting the upper end of each arm to one of the links of each pair which is connected to the side of the oven, and cooperating means between the door and said arms whereby the plate will move outwardly of the oven simultaneously with the downward swinging movement of the door to an open position, the plate being returned to its initial position within the oven simultaneously with the closing of the door, said last mentioned means comprising a pair of hooked shaped levers pivotally connected to the door, pins projecting laterally from the arms for cooperation with the hooked ends of the levers, and additional means for releasing the hooked levers from the pins to permit the return of the door to a fully closed position.

1,681,669. CAR-DOOR-LOCKING MECHANISM. BYERS W. KADEL, Baltimore, Md. Filed June 2, 1927. Serial No. 196,063. 11 Claims. (Cl. 105—308.)



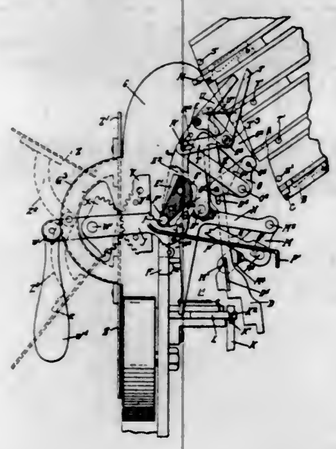
1. A railway car having a lading discharge opening, a door for said opening movable to open position under the influence of gravity, means for supporting the door in closed position involving a shouldered member and a beam member, one of said members being fixed with respect to the part upon which it is mounted and the other being pivoted with respect to the part upon which it is mounted, and one of said members being provided with an inclined portion cooperable with the other of said members to force the door to closed position upon a locking rotation of the pivoted member, and means carried by the car body forming a plurality of fulcrum points respectively adapted to cooperate with a removable lever for forcing the pivoted member into and out of door supporting position.

1,681,670. FIREPLACE STRUCTURE. JOHN WESLEY MARKS, Oakland, Calif. Filed May 13, 1927. Serial No. 191,055. 1 Claim. (Cl. 126—121.)



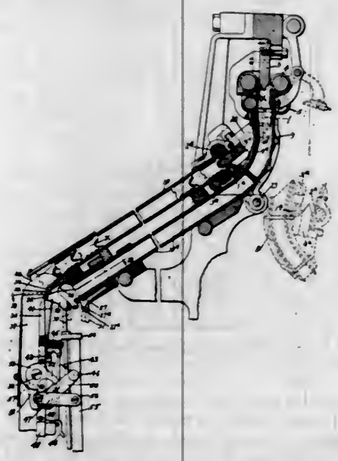
A fire place structure comprising a fire place opening, a hollow bottom section, a hollow back section on said bottom section, a hollow section on each side on said bottom section, a top hollow section on said back and side sections, a smoke flue in said top section, each of said hollow sections communicating with each other, each of said bottom, side and top sections being open in front all around the fire place, and having an open grille work section for each of said open sections.

1,681,671. TYPOGRAPHICAL MACHINE. GEORGE E. MARLATT, Pasadena, Calif. Filed Oct. 5, 1926, Serial No. 139,718. Renewed July 5, 1928. 9 Claims. (Cl. 199—20.)



1. In combination, superposed matrix-magazines, an assembler-entrance throat having an angular portion thereof pivotally movable for conducting matrices from a selected magazine, a series of throat partitions between which matrices are conducted from said magazines, and the specified construction whereby the angular portion of said throat may be moved from one to another operative position regardless of the fact that said throat partitions are rigid and continuous.

1,681,672. TYPOGRAPHICAL MACHINE. GEORGE E. MARLATT, Pasadena, Calif. Filed Oct. 5, 1926, Serial No. 139,719. Renewed July 5, 1928. 9 Claims. (Cl. 199—15.)



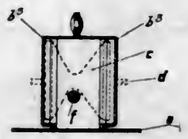
1. In a typographical machine, in combination with upper and lower channeled magazines for receiving matrices from individual lower and upper distributors employing sets of conveyor screws, matrices having upper and lower lugs on each edge thereof, upper and lower conveyor screws in each set thereof for engaging the lugs on said matrices, means for causing the matrices destined for the lower distributor to be released successively at a common point from the upper set of conveyor screws, and means for causing and permitting matrices so released to enter successively between and into engagement with the conveyor screws in the lower set thereof, said latter means comprising an opposed-groove channel through which the matrices are guided in their travel from the upper set of conveyor screws to the lower set thereof, a perforation in the floor of the lower groove of said channel into which a lug on said matrices lodges in advance of the entry of the matrices into engagement with the lower set of conveyor screws and from which it is dislodged in time with the rotation of said screws, and a special form of conveyor screw for permitting the matrices to pass therebetween and then enter into engagement therewith.

1,681,673. CONDUCTOR TERMINAL. CHARLES GEORGE MERIDETH, Evansville, Ind. Filed June 30, 1927. Serial No. 202,544. 1 Claim. (Cl. 173—273.)



A conductor terminal comprising a contractible band of general circular shape having an arc-shaped hollow bead which is open at its inner face and is adapted to receive the end of the conductor and to hold said end in arc-shaped arrangement exposed for direct contact with a battery post or other terminal, said band being provided with overlapping end parts, and a cam lever carried by one of said ends and co-operating with the other end for the purpose of effecting clamping of the band and conductor end on the battery post.

1,681,674. CORD GUIDE FOR ROLLING TOYS RUNNING ON CORDS. CARL MEYER, Zurich, Switzerland. Filed July 23, 1925, Serial No. 45,558, and in Germany July 26, 1924. 2 Claims. (Cl. 46—14.)

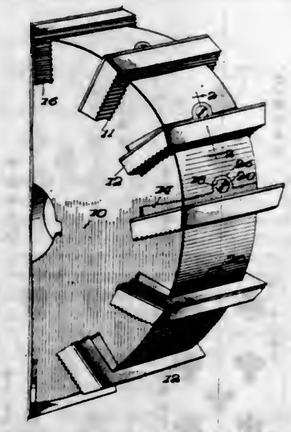


2. A cord guide for rolling toys, comprising, in combination, a supporting plate, a roller, cap like coverings for the ends of the roller, mounted on the supporting plate, and forming both bearings for the roller shaft, and bows to prevent dislodgment of the cord at the ends of the roller.

1,681,675. ROTARY CUTTER. FRANK P. MILLER, Meadville, Pa. Filed May 16, 1925. Serial No. 30,782. 5 Claims. (Cl. 29—105.)

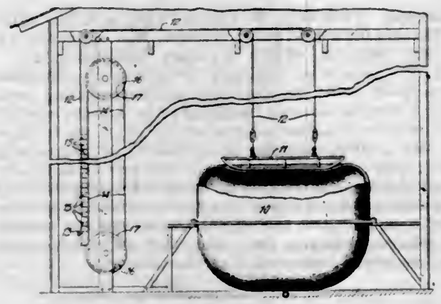
1. A cutter comprising a body having a slot, a blade and a wedge in the slot and having the opposed sides thereof flatly in contact, the wedge being provided with a

boss, and a screw threaded through the boss substantially parallel to the plane of the blade and engaging the



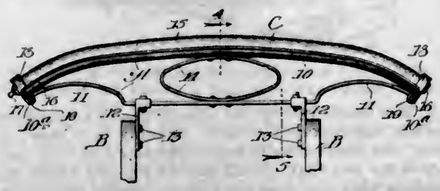
bottom wall of the slot to urge the wedge outwardly whereby one side of the wedge is flatly in binding engagement throughout with the opposed side of the blade.

1,681,676. BREATHER BAG. JOHN E. MOORE, Whiting, Ind., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed May 13, 1927. Serial No. 191,153. 8 Claims. (Cl. 220—85.)



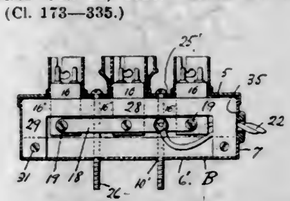
1. In combination, a breather bag, a superimposed weight, a varying counterpoise for said weight connected thereto, said counterpoise comprising a continuous member mounted so as to be moved in conjunction with said superimposed weight, and weight members mounted on said continuous member and adapted to exercise a varying counterpoising effect upon said superimposed weight.

1,681,677. AUTOMOBILE BUMPER. ALVIN J. MUSSELMAN, Chicago, Ill. Filed Apr. 20, 1927. Serial No. 185,205. 5 Claims. (Cl. 293—55.)



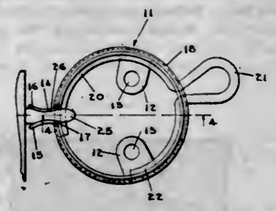
1. In an automobile bumper, a yieldable support having a supporting member of concave cross-section, said member being arcuate, a pneumatic tube secured in the concave portion of said arcuate member, an air valve on said tube, a clamp at each end of said tube having laterally projecting ears adapted to engage in notches on the ends of said supporting members.

1,681,678. SOCKET BOX. THOMAS O'DONNELL, Ironwood, Mich. Filed Oct. 15, 1926. Serial No. 141,807. 3 Claims. (Cl. 173—335.)



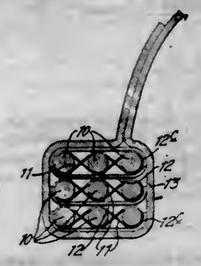
1. A device of the class described including, in combination, a box, a lid for the box, means for holding the lid on the box, a plug supporting structure in the box, said structure comprising a body block having extending from each end a lateral pair of legs in spaced parallelism and provided with registering openings, a bar having openings at its ends, said bar adapted to be received at its ends between the ends of the respective pairs of legs, screws adapted to pierce the openings, plugs mounted in the block body and extending through openings in the lid.

1,681,679. DOOR CATCH AND FASTENER. PETER PETERSEN, Los Angeles, Calif., assignor of one-half to Earl L. Parker, Los Angeles, Calif. Filed July 20, 1927. Serial No. 207,079. 7 Claims. (Cl. 292—17.)



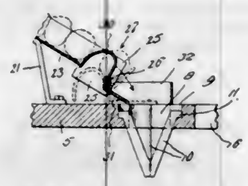
1. A door catch and fastener comprising in combination a ring like structure having a split in one side, means to secure said ring to a fixed structure, an eye attached to a movable structure, the eye passing through the said split, and a bolt slidably mounted in the ring and engaging in the eye.

1,681,680. BEAD FOR PNEUMATIC TIRES. ROBERT C. PIERCE, Niles, Mich., assignor to National-Standard Company, Niles, Mich., a Corporation of Michigan. Filed June 18, 1927. Serial No. 199,808. 5 Claims. (Cl. 245—1.5.)



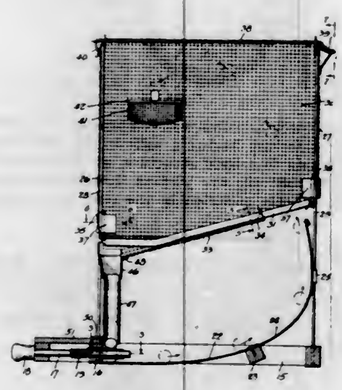
1. A tire bead having embedded therein a convolutely disposed reinforcing element, the wraps of said element being separated by a convolutely disposed fibrous ribbon impregnated with rubber, the ribbon and the element being parallel substantially throughout their lengths.

1,681,681. SEED-POTATO CUTTER. WHARTON H. PIGG, Canon City, Colo. Filed Feb. 5, 1927. Serial No. 166,186. 2 Claims. (Cl. 146—169.)



1. The combination in a potato cutter, of a table board having a vertical opening therein, cutting means in said opening, an inclined chute with its lower discharge end spaced above and to one side of said opening, spaced guide wings disposed vertically and arranged between said lower end of the chute and said opening, a transverse shaft journaled in said side wings, means for turning said shaft, and a feed control member including a loop shaped portion at one side of said shaft and movable between said wings above and below the lower end of the chute and also including a plate-like portion adapted in its upper position to check potatoes and in its lower position to shoot a potato to said opening.

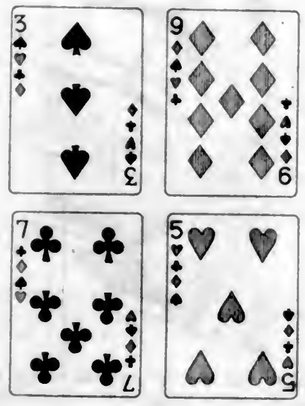
1,681,682. GAME. LELAND S. MCVEY, Fontana, Calif. Filed Jan. 8, 1927. Serial No. 159,958. 8 Claims. (Cl. 273—101.)



1. A game comprising a cage having an opening in its bottom, a ball projecting device beneath the cage, a chute for directing projected balls upwardly through the bottom and into said cage, and a basket in the cage adapted to receive balls projected into the cage.

1,681,683. CARD GAME. SARAH K. RAMER, Vancouver, British Columbia, Canada. Filed May 4, 1927. Serial No. 188,864. 1 Claim. (Cl. 273—152.)

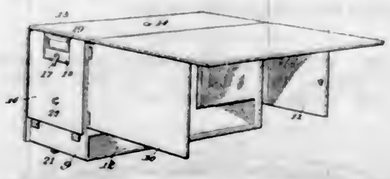
A card game comprising a deck of conventional monarchical playing cards having the four conventional heart, club, diamond, and spade suits, each of said suits being an arbitrarily assigned trump for each particular playing position, and each of the cards having, in addition to its own main corner index, an extra corner index, said extra corner index indicating the trump suit assigned to the playing position following the playing position to which the main index is assigned as trump.



1,681,684. PROCESS OF PRODUCING ACETIC ACID. FRANCIS GEORGE RAWLING, Madison, Wis. Filed Feb. 12, 1926. Serial No. 87,951. 9 Claims. (Cl. 260—112.)

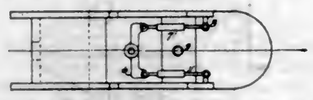
1. The process of preparing acetic acid by extraction from wood, which process comprises impregnating wood with a treating material consisting of an aqueous solution of a mixture of sodium sulphite and an alkali, the strength of said treating material being capable of neutralizing acetic acid from the wood but not sufficient to materially affect the lignin content of the wood, subjecting the wood and said treating material to a heat treatment of at least 110° C. and not over 160° C. and thereby forming acetates in solution, rendering the material of the solution acid, and recovering acetic acid from the solution.

1,681,685. TOURIST'S COMBINATION CABINET. CHESLEY RODGERS, Cedar Rapids, Iowa. Filed Oct. 19, 1925. Serial No. 63,386. 2 Claims. (Cl. 190—12.)



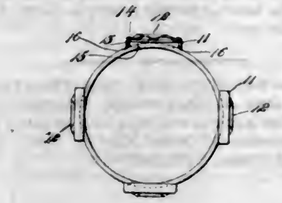
1. In a tourist cabinet, the combination of a box-like receptacle, end-flaps hinged thereto to swing up to closed position, and downwardly to form supporting legs, with openings in the free ends, folding handles disposed within said openings when the flaps are elevated, means for securing the flaps in the elevated and in the depressed positions, and a cover closing over the whole, with openings therein to give access to said handles.

1,681,686. SLED. RUGGIERO ROSSI, Ellwood City, Pa. Filed Oct. 12, 1926. Serial No. 141,064. 1 Claim. (Cl. 280—16.)



In a sled, a seat, a pair of rear runners rigidly connected thereto and provided with forwardly and upwardly curved front ends, a board pivotally connected to the seat in advance of the rear runners, runners rigidly connected to the board and provided with downwardly and backwardly curved rear ends, the front runners being spaced from the rear runners sufficiently to permit steering, the rear face of the front runners being adapted to contact with the front face of the rear runners to prevent wide-angle steering, and means for steering the front runners.

1,681,687. BAND BRACELET. CARL SCHRAYSSHUEN, Providence, R. I., assignor to Speidel Chain Co., a Firm composed of Frederick Speidel and Eugen Speidel, Pforzheim, Germany, doing business at Providence, R. I. Filed Jan. 3, 1927. Serial No. 158,552. 5 Claims. (Cl. 63—16.)



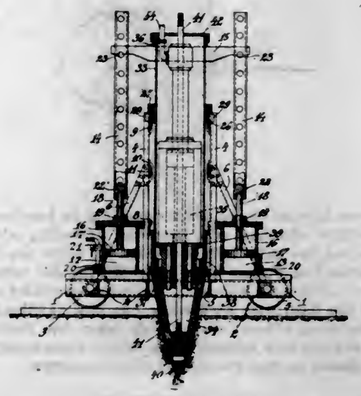
5. A band bracelet comprising a master ring, a plurality of ornaments fixed to said ring in spaced relation about its periphery, said ornaments extending on either side of said ring, and a plurality of separate rings releasably connected to said ornaments on either side of the master ring to jointly form a band of extended width.

1,681,688. TRIMMING AND CUTTING TOOL. MARIN M. SIMESCU, Youngstown, Ohio. Filed Aug. 31, 1927. Serial No. 216,573. 4 Claims. (Cl. 30—11.)



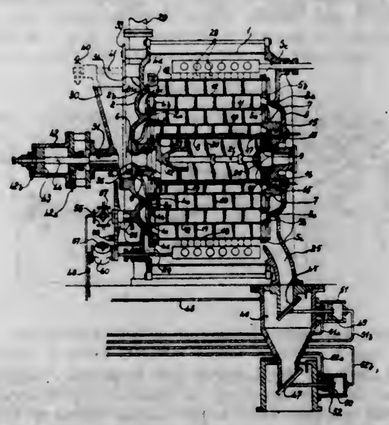
1. A trimming and cutting tool, comprising a vertically-inclined handle bar having a horizontal bar affixed to its lower end, a pair of cutter bars detachably secured to said horizontal bar, one of said cutters being reciprocable, a crank member mounted upon said main bar, a link connecting said crank member and reciprocable cutter bar, a spring adapted to co-act with said crank member in operating said reciprocable cutter bar, an operating handle mounted upon said handle bar, and a connecting rod extending from said handle to said crank member.

1,681,689. ARRANGEMENT FOR LAYING FOUNDATIONS. OTTOKAR STERN, Vienna, Austria. Filed Jan. 21, 1926, Serial No. 82,792, and in Austria Jan. 24, 1925. 14 Claims. (Cl. 61—50.)



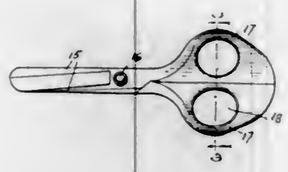
1. An arrangement for laying foundations of structures, buildings and the like, comprising in combination a carriage provided with upright supporting members, a guide-tube carried by the said supporting members and longitudinally movable, a shaft centrally and rotatably arranged in the said guide-tube, a conical pile arranged round the said shaft and guided by the guide-tube, and a ram disposed within the guide-tube and longitudinally movable outside the said shaft and acting directly on the conical pile, for the purpose specified.

1,681,690. DRYING APPARATUS. JEAN BAPTISTE VERNAY, Villeurbanne, France. Filed Oct. 31, 1927, Serial No. 230,096, and in France Dec. 18, 1926. 15 Claims. (Cl. 34—5.)



1. A drying apparatus comprising in combination a tight casing; rotatable co-axial cylinders therein, said cylinders providing a zig-zag path for the material to be dried; and end plates for supporting said cylinders, said end plates being formed of concentric rings connected together by means of radial arms.

1,681,691. COMBINED SCISSORS AND SHOEHORN. OTTO ALTENBACH, Los Angeles, Calif. Filed May 9, 1927. Serial No. 190,049. 1 Claim. (Cl. 7—6.)

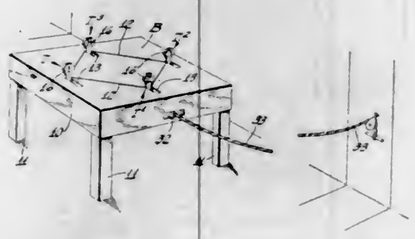


Scissors having the blades terminating in handles having straight abutting edge portions extending along a longitudinal line with the blades when the latter are closed, the handles being offset from the blades so that when the edges are in relative abutment the respective sides of the handles are flush with each other, the said handles mutually describing a heart-shaped body when the blades are closed, and the said handles being curved transversely and longitudinally so that the body is concavo-convex.

1,681,692. METHOD OF REMOVING AND RECOVERING VOLATILE PLASTICIZERS FROM CELLULOID, AND THE LIKE. HARRY P. BASSETT, Cynthiana, Ky. Filed June 11, 1927. Serial No. 198,312. 8 Claims. (Cl. 260—133.)

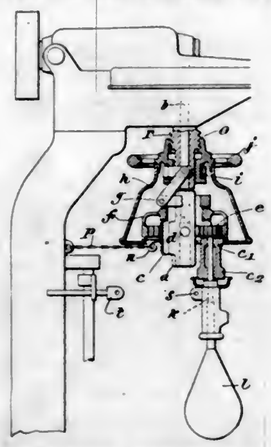
1. The herein described process of removing and recovering volatile plasticizers from celluloid and the like which comprises maintaining a body of the material under treatment in acid state at approximately 100° C., the amount of acid present being insufficient to cause carbonization or decomposition of the cellulose-containing material, passing a current of steam through such body of material to drive off the volatile plasticizing material present, and recovering such plasticizing material.

1,681,693. GAME APPARATUS. FRANK W. BECKER, Ocean Park, Calif. Filed Dec. 13, 1927. Serial No. 239,789. 14 Claims. (Cl. 273—102.)



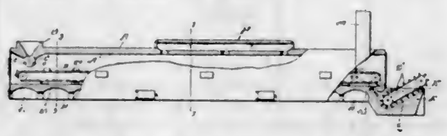
1. In a game apparatus, a pair of movably supported targets normally occupying one position and movable to a second position when struck, means normally locking one of the targets in normal position and being mounted for movement to a released position with respect to said target to permit the latter to move to its second position when struck, and means for actuating the locking means, operable in response to movement of the other target to its second position to move the locking means to released position, whereby the corresponding target will be released for movement to its second position when struck.

1,681,694. PLANET GEAR. MAX M. BOCK, Hamburg, Germany. Filed July 8, 1927, Serial No. 204,328, and in Germany Mar. 11, 1926. 2 Claims. (Cl. 74—34.)



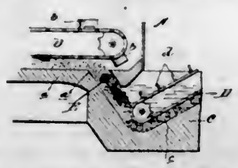
1. A planet gear system comprising a driving shaft and a driven shaft, an orbit gear, means for arresting said orbit gear, means operatively connecting said shafts and comprising a planet gear, and means for varying the relative angle of said shafts comprising means for common swinging of the bearing for the orbit gear with the bearing for the planet gear.

1,681,695. APPARATUS FOR THE TREATMENT OF ORES. MILTON E. BRANTHAVER, Shadygrove, Pa., assignor to The American Milling and Refining Company, a Trust Association. Filed May 10, 1924. Serial No. 712,285. 13 Claims. (Cl. 266—8.)



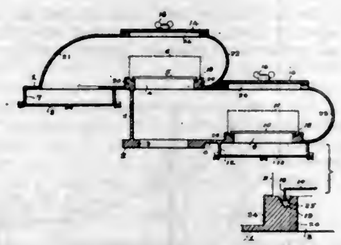
1. An ore roasting furnace comprising a roasting chamber having its floor provided with an ore discharge opening and an endless traveling conveyor in said chamber operative to force the ore under treatment along the floor of the roasting chamber and to discharge it through said opening, in combination with a leaching pool or vat operatively related to said discharge opening to receive the hot ore therefrom, and a liquid supply means operative to direct the liquid into the ore in its passage from the furnace.

1,681,696. MEANS FOR LIQUID TREATMENT OF ROASTED ORES. MILTON E. BRANTHAVER, Shadygrove, Pa., assignor to The American Milling and Refining Company, a Trust Association. Filed May 10, 1924. Serial No. 712,286. 10 Claims. (Cl. 266—8.)



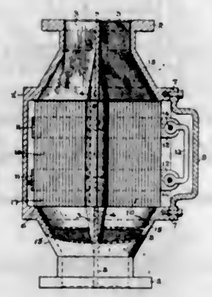
1. An ore roasting furnace having its roasting chamber provided with a duct through which the hot roasted ore is discharged, a vat containing water whose level is such as to seal the discharge end of said duct and whose depth adjacent said discharge end is such that the ore will be submerged therein when it leaves the duct, and means for injecting water into the ore within the duct.

1,681,697. SAFETY VALVE FOR STORAGE TANKS. STEPHEN H. BROOKS, Los Angeles, Calif., assignor to Brooks Engineering Corporation, a Corporation of California. Filed Aug. 17, 1925. Serial No. 50,633. 5 Claims. (Cl. 277—61.)



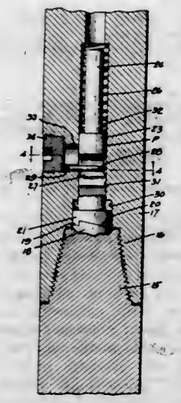
1. In safety valves for tanks, a suitable casing having an inlet for attachment to a tank opening, a shallow flanged sheet metal pressure stemless valve of minimum weight, a similarly formed vacuum valve of minimum weight in operative relation to the inlet, a separate V-grooved seat for each valve, a mercury sealing agent in the grooves, recurving walls adjacent the said valves presenting internal curved flow surfaces, said body having a pressure outlet connected to the pressure valve, a vacuum inlet to the vacuum valve and means positioned adjacent the valves and disconnected therefrom adapted to prevent an inoperaive displacement of said valves.

1,681,698. FLAME ARRESTER. STEPHEN H. BROOKS, Los Angeles, Calif., assignor to Brooks Engineering Corporation, Los Angeles, Calif., a Corporation of California. Filed Sept. 16, 1926. Serial No. 135,797. 6 Claims. (Cl. 220—88.)



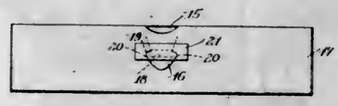
1. In flame arresters, a suitable cylindrical casing having an opening on one side, reduced diameter connecting flanges having a passageway therethrough of conical shape leading to the interior of the casing, radial partitions across such passageways, a removable flame arrester unit, a seat for the same in the casing, bands encircling the arrester unit, a handle secured to said bands, and a cover for the casing opening.

1,681,699. TOOL JOINT LOCK. JASPER CLAY COATES, Santa Paula, Calif. Filed Feb. 23, 1927. Serial No. 170,273. 1 Claim. (Cl. 287—125.)



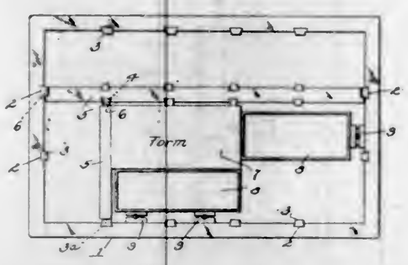
In combination, a tool joint comprising a box having a threaded cavity and a reduced bore communicating with the cavity and having a cylindrical portion and a squared portion, a plunger having an enlarged toothed head movable within the cavity and a shank in the bore having cylindrical and squared portions disposed respectively in the corresponding portions of the bore, a threaded pin in said cavity and having a toothed head adapted to engage the first toothed head to lock the pin against unscrewing movement from the box, means for yieldingly urging the plunger and its toothed head toward the second toothed head, the plunger and the box being formed with openings, and a pin having an enlarged threaded portion threaded into said opening of the box and a second portion extending into the plunger for limiting the movement of the plunger under the action of said urging means, said box having a relatively large opening communicating with said plunger and box openings and through which an instrument is adapted to be extended into the plunger opening to manually move the plunger against the action of said urging means, and a plug threaded into said relatively large opening in covering relation to the outer end of the last mentioned pin.

1,681,700. CARTON. WILLIAM F. FOLMER, Rochester, N. Y. Filed Jan. 28, 1926. Serial No. 84,315. 6 Claims. (Cl. 229—45.)



1. A distributing carton for merchandise comprising a container of sheet material having a cover, a wall of said container having a slit spaced interiorly from an edge of the open face which is closed by the cover, said cover having a projecting tongue lying behind the inner face of said wall and engageable in said slit when the cover is closed, and a sticker seal secured to said wall over the slit and the adjacent intermediate portion of the tongue when the cover is closed, leaving he free tip end of the tongue exposed as an opening tab, whereby the consumer in opening the carton will by pulling up the opening tab, usually tear the tongue through the wall and render unlikely subsequent use of the carton for merchandise distribution purposes.

1,681,701. PRINTER'S CHASE. OLIVER P. GAYMAN, Canal Winchester, Ohio. Filed May 3, 1927, Serial No. 188,562. Renewed May 2, 1928. 5 Claims. (Cl. 101—393.)

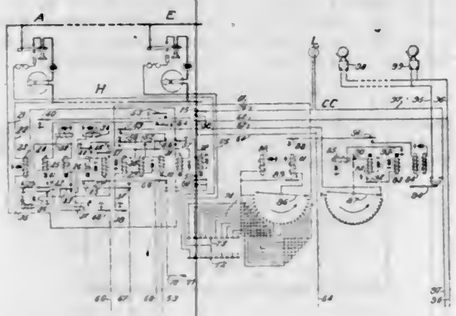


1. In a printer's chase, a frame structure including a plurality of open ended wedge shaped sockets, and a locking bar having the opposite ends thereof provided with wedge shaped projections removably positioned within said socket.

1,681,702. METHOD FOR PURIFYING GASES. FRIEDRICH JOST, Sodingen, Germany, assignor to Karl Müller, Berlin-Lichterfelde-West, Germany. Filed Nov. 8, 1926, Serial No. 147,190, and in Germany Nov. 12, 1925. 7 Claims. (Cl. 23—7.)

1. A process of freeing gases from small amounts of oxygen, water vapor, carbon monoxide, carbon dioxide and sulphurous gases, which comprises contacting said gas to be purified with alkali metal hydride.

1,681,703. AUTOMATIC TELEPHONE SYSTEM. CLARENCE E. LOMAX, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed May 9, 1925. Serial No. 29,001. 15 Claims. (Cl. 179—17.)



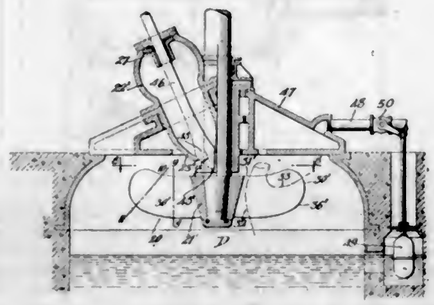
1. In a telephone system, the combination with a common talking, selective signaling system provided with a line having a plurality of subscribers' stations thereon, of a direct line system accessible to two subscribers of said common line, a source of signaling current, automatic means controlled over said common line for signaling with said current any subscriber thereon individually, automatic means responsive to the lifting of a receiver on said direct line for signaling with said current the other subscriber thereon, and automatic means responsive to the lifting of said other subscriber's receiver for stopping said signaling and connecting up said subscribers for talking.

1,681,704. OPTICAL GLASS. ROBERT J. MONTGOMERY, Rochester, N. Y., assignor to Bausch & Lomb Optical Company. Filed Apr. 16, 1923. Serial No. 632,565. 2 Claims. (Cl. 106—36.1.)

2. A glass mix or batch containing the following materials in substantially the proportions stated:

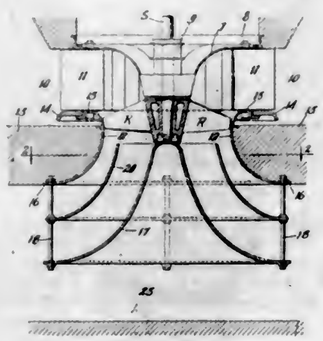
	Per centum.
Silica	69.5
Sodium oxide	15.8
Boric oxide	.3
Commercial didymium oxide	12.0
Antimony oxide	1.9
Arsenic oxide	.5

1,681,705. HIGH-SPEED IMPULSE TURBINE. LEWIS FERRY MOODY, Philadelphia, Pa. Filed May 25, 1923. Serial No. 641,318. 24 Claims. (Cl. 253—130.)



1. In an impulse turbine a runner having buckets and a nozzle for directing a jet against the bucket edges at one side of said runner, said buckets spreading said jet so that at the discharge the meridian components of the outer and inner portions will be at an angle of between 70° and 180° to each other.

1,681,706. HYDRAULIC TURBINE. LEWIS FERRY MOODY, Philadelphia, Pa. Filed Nov. 13, 1923. Serial No. 674,461. 33 Claims. (Cl. 253—117.)



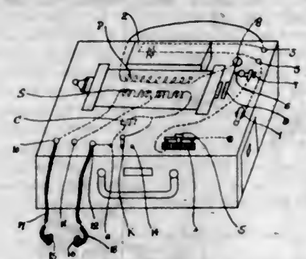
1. A hydraulic turbine having a runner and a draft tube, said draft tube comprising a central core excluding the flow from the central portion of the draft tube, an outer surface curving progressively from a substantially axial direction at entrance to a direction at discharge inclined at a large angle to the axis, and intermediate guiding means cooperating with said core and outer surface to provide a plurality of outwardly directed concentric annular passages surrounding said core and spaced to gradually decelerate the flow.

1,681,707. CLASSING CLAMP. ARTHUR MÜLLER, Bern, Switzerland. Filed Dec. 5, 1927, Serial No. 237,974, and in Belgium July 26, 1927. 1 Claim. (Cl. 24—81.)



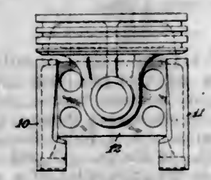
In a classing clamp for file papers adapted to be fastened to a cover board and in combination, a rigid metallic strip provided at the ends with two lateral lugs and having bent-up lateral edges forming grooves, a resilient strip attached to the middle portion of the rigid strip and having both its ends bent-up between the grooves of the rigid strip, curved flat springs riveted to the up standing ends of this resilient strip and extended sideways so as to match with the lateral lugs of the rigid strip with a view of forming clamps, and rectangular buttons arranged slidably within said grooves and above each of the up-standing legs of the resilient strip and having a roughened surface so as to present a safe grip when being operated.

1,681,708. INDUCED-CURRENT MEDICAL INSTRUMENT WITH CONDENSER. KOGORO MURAKOSHI, Tokyo Prefecture, Japan. Filed Apr. 7, 1923, Serial No. 630,663, and in Japan June 13, 1921. 2 Claims. (Cl. 174—177.)



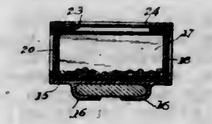
1. In an electro-therapeutic apparatus, an induction coil including primary and secondary windings, and an applicator permanently connected with one terminal of the secondary winding, a condenser interposed between said terminal or secondary winding and the applicator, means for short-circuiting said condenser, a plurality of separate electrical connectors, means electrically connecting said connectors with the opposite end and intermediate portion of the secondary winding, and a second applicator selectively engageable with the electrical connectors.

1,681,709. PISTON. ADOLPH L. NELSON, Detroit, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Filed Mar. 22, 1926. Serial No. 96,379. 4 Claims. (Cl. 74—108.)



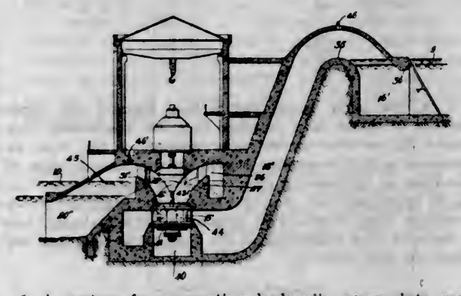
1. The method of making a piston having opposite bearing surfaces and struts of a material different from the bearing surfaces and with a predetermined rate of expansion, which comprises spacing the struts such a distance apart and spacing their end such a distance inwardly from the piston circumference that the spacing of the struts together with the coefficients of expansion of the materials of the skirt and struts cooperate to produce a predetermined rate of expansion diametrically of the bearing portions.

1,681,710. MATCH-BOX HOLDER. ROBERT M. OSTRANDER, Los Angeles, Calif. Filed June 15, 1927. Serial No. 199,005. 1 Claim. (Cl. 206—19.5.)



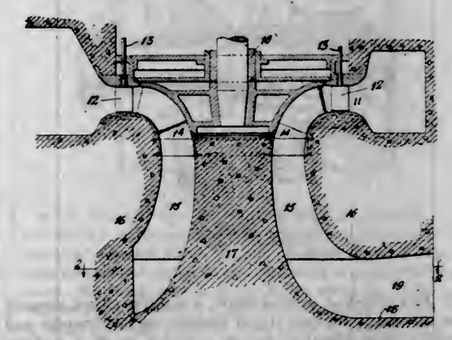
An advertising display device comprising a container formed of elastic material and provided with spaced apart channels for the reception of the edges of a display card, and spaced apart flanges formed as an integral part of the container and adapted to serve as an attaching clamp to hold the container upon the spoke of a vehicle steering wheel, the container being open at one end so that a match box may be inserted in or withdrawn from the container.

1,681,711. HYDRAULIC POWER SYSTEM. HARVEY BIRCHARD TAYLOR, Philadelphia, Pa. Filed Dec. 4, 1919. Serial No. 342,383. 62 Claims. (Cl. 253—117.)



1. A system for converting hydraulic power into mechanical power comprising means for passing water through a turbine runner and discharging it therefrom at a velocity so related to the static discharge head on the runner that the absolute discharge pressure on the runner is only sufficient to insure continuity of the water column.

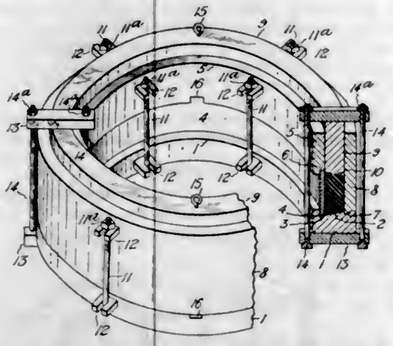
1,681,712. HYDRAULIC TURBINE. HARVEY BIRCHARD TAYLOR, Philadelphia, Pa. Filed Mar. 1, 1923. Serial No. 622,016. 38 Claims. (Cl. 253—117.)



1. A turbine having a runner discharging the flow with a whirl, and a draft tube comprising an inner and an outer wall forming between them an annular passage which

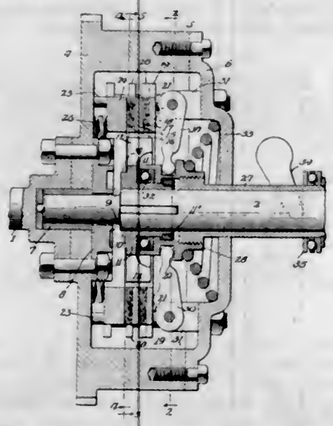
entirely receives said whirling discharge, said inner wall conforming to the flow lines from the inner hub and of substantial diameter at the runner hub at least one fourth of the diameter of said outer wall at the discharge from said runner so that the entire flow from the runner is guided at a sufficiently large radial distance from the turbine axis to prevent the water from attaining high angular velocities of rotation around the axis.

1,681,713. MOLD FOR RUBBER TIRES. EDWARD WILLIAM THURLOW, Middle Brighton, Victoria, Australia, assignor to Vulcan Rubber Proprietary Limited, Kensington, Victoria, Australia, a Corporation of Victoria. Filed Mar. 3, 1927, Serial No. 172,344, and in Australia July 13, 1926. 6 Claims. (Cl. 18—42.)



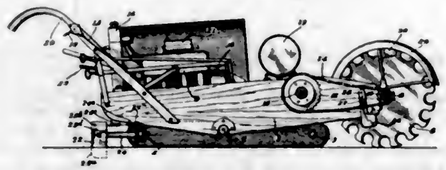
1. A tire mold, comprising a base member the upper surface of which is a molding face, an upstanding ring removably secured to the outer portion of the base, an upstanding ring removably seated on the inner portion of the base, an upstanding ring removably seated on the rim at its upper end, the channel between the said upstanding members being intended to receive the tire material, and a pressure ring adjustable in the channel to compress and mold the tire material.

1,681,714. CLUTCH. WILLIAM E. TULLAR, Chicago, Ill. Filed Sept. 27, 1924. Serial No. 740,241. 7 Claims. (Cl. 192—53.)



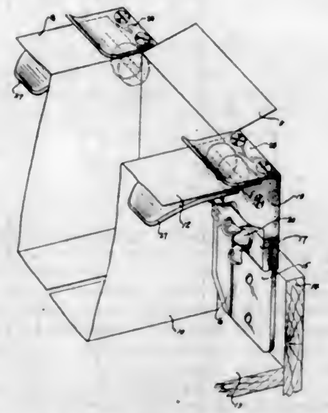
1. In a clutch, a driving shaft, a positive clutch element fast thereon, a friction clutch element carried thereby and movable longitudinally thereof, a driven shaft, a positive clutch element splined thereon to co-act with the positive clutch element on said driving shaft, the surfaces of the clutch elements being adapted to be brought into face contact with each other, a friction driving element carried by said driven shaft and movable longitudinally thereof, and a single means to cause engagement first of said friction clutch elements and then of said positive clutch elements.

1,681,715. ICE-CUTTING MACHINE. WILLIAM HENRY WAY, Ossining, N. Y. Filed May 23, 1923. Serial No. 640,866. 4 Claims. (Cl. 262—20.)



1. In an ice cutting machine comprising a running gear movable over the ice to be cut and a tiltable frame thereon, a saw carried by the frame for rotation in a vertical plane at one end of the tiltable frame; a driving motor mounted on the frame, and means including a differential device carried by the frame, driven by the motor and connected to the opposite sides of the saw to drive the same.

1,681,716. CARTON-MARKING DEVICE. EARL P. WEBSTER, Niagara Falls, N. Y., assignor to The Shredded Wheat Company, Niagara Falls, N. Y., a Corporation of New York. Filed Apr. 2, 1927. Serial No. 180,354. 12 Claims. (Cl. 101—85.)



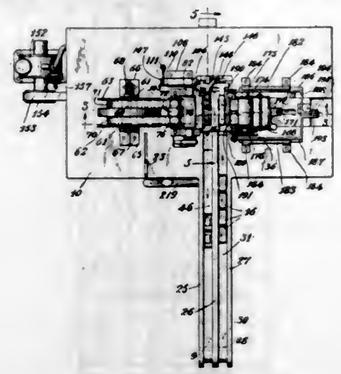
1. A method of marking a group of cartons for identification, which comprises placing a visible but apparently meaningless mark on a flap of each carton to serve as a point of reference, and simultaneously placing another similar mark on a flap at a distance from the first marking, the spacing of the marks being variable and dependent on the data to be provided thereby.

1,681,717. SUBSTITUTED THIURAM POLYSULPHIDES AND PROCESS OF MAKING THE SAME. GEORGE STAFFORD WHITBY, Montreal, Quebec, Canada, assignor to The Roessler & Hasslacher Chemical Co., New York, N. Y., a Corporation of New York. Filed Jan. 27, 1926. Serial No. 84,153. 12 Claims. (Cl. 260—16.)

1. A process for the preparation of a composition of matter consisting in reacting an ammonium salt of a substituted dithiocarbamic acid with a chloride of sulphur corresponding to the general formula S_xCl_2 wherein x represents a whole number other than zero.

5. A composition of matter comprising diphenyl-diethyl thiuram tetrasulphide.

1,681,718. APPARATUS FOR COVERING THE OPENINGS IN PERFORATED COVERS FOR CONTAINERS WITH PAPER OR LIKE MATERIAL. CHARLES A. ALEXANDERSON, New York, N. Y., assignor to Emma W. D. Humphrey, Helen W. D. Mileham, and Guaranty Trust Company, administrators of Eugene W. Durkee, deceased. Filed Aug. 18, 1927. Serial No. 213,963. 8 Claims. (Cl. 216—22.)



1. In an apparatus for covering the openings in perforated covers for containers with paper or like material, the combination of a conveyor for the covers, means for applying adhesive to the surface of the covers, means for supporting a roll or rolls of paper or like material, means for drawing such material from the roll or rolls, means for picking up the forward ends of such material by suction, means for cutting off such picked up portions, means for conveying the covers after receiving the adhesive to a position below and in alignment with the suspended strips of material, means for shutting off the suction, and means for pressing such strips of material upon the surfaces of the covers to which the adhesive has been applied.

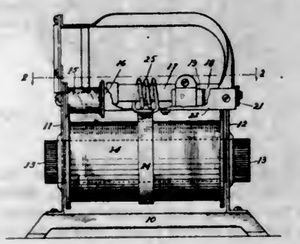
1,681,719. LAWN SPRINKLER. GERALD L. BALDWIN, San Diego, Calif. Filed Aug. 2, 1922. Serial No. 579,218. 5 Claims. (Cl. 299—61.)



1. In a lawn sprinkler, a hollow, reciprocally mounted plunger provided with relatively long, narrow, partially vertical and partially horizontal, angularly positioned slots extending outwardly from the middle portion thereof, whereby a revoluble motion is imparted to said plunger by the efflux of the water from said slots, and a bevel-headed screw mounted centrally in said plunger contiguous to said slots positioned so that the water impinges upon said head to regulate and direct the flow of water from said slots.

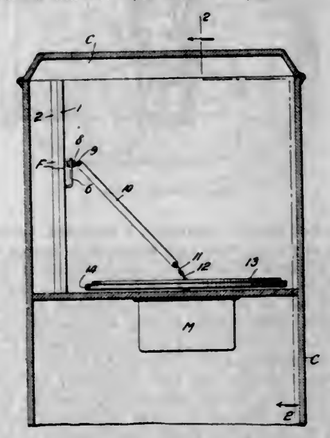
2. In a lawn sprinkler, a hollow nozzle member provided with a central threaded aperture and with relatively long, narrow slots opening into said aperture and directed outwardly and upwardly on an angle to the vertical axis of said nozzle member from the inner portion of said nozzle at its upper end, and a spray adjusting screw mounted in said aperture for adjusting the effective size and shape of the inlet to said slots.

1,681,720. SYNCHRONOUS ELECTRIC VIBRATOR. JOSEPH R. BARNHART, Cleveland, Ohio, assignor to Walter M. Scott, Cleveland, Ohio. Filed Feb. 10, 1923. Serial No. 618,280. 17 Claims. (Cl. 175—365.)



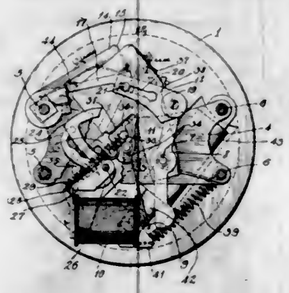
1. In a combined rectifier and transformer, a vibratory armature supported in series with the primary magnetic flux of said transformer and tuned out of resonance with the frequency thereof, in combination with means additional to the magnetic circuit of the transformer itself for impressing two additional magnetic fluxes thereon, one of which is uni-directional and the other of which is alternating having a frequency equal to that of the primary flux and a phase displaced therefrom.

1,681,721. APPARATUS FOR RECORDING AND REPRODUCING SOUND. CHARLES RLIEBERGER, New York, N. Y., assignor of forty-five per cent to Adolph R. Thomas, New York, N. Y. Filed Mar. 28, 1923. Serial No. 628,196. 9 Claims. (Cl. 181—31–.)



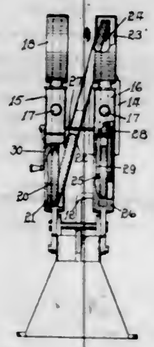
6. A homogeneous acoustic diaphragm having a thick flat section at the center and a plurality of thin flat sections surrounding said thick section, the area of said thick section being about equal to the combined area of the thin sections, the thick section being about twice as thick as the thin sections, and each of said thick and thin sections being of approximately uniform cross-section, whereby said thick section acts like a stiff diaphragm most sensitive to one band of frequencies and said thin sections act like a flexible diaphragm most sensitive to a different band of frequencies.

1,681,722. CIRCUIT CONTROLLER. ALFRED W. BURKE, Pelham Manor, N. Y. Original application filed Aug. 13, 1921, Serial No. 491,206, Patent No. 1,565,546. Divided and this application filed Sept. 15, 1925. Serial No. 56,429. 8 Claims. (Cl. 200—106.)



1. In an apparatus of the class described, the combination of a starting switch, a running switch, manually operable means for closing said switches, a locking lever for locking the running switch closed, means for opening the starting switch while the locking lever is in operative position and means for preventing closure of the starting switch until said locking lever has been released.

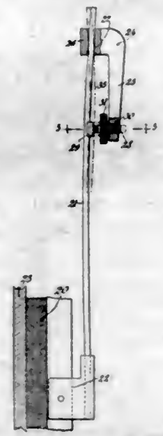
1,681,723. MOTION-PICTURE APPARATUS. ANGELO ROBERT CLAS, Toledo, Ohio. Filed Nov. 3, 1924. Serial No. 747,409. 1 Claim. (Cl. 88—24.)



In a motion picture apparatus, a standard, bracket arms extending upwardly from said standard in spaced relation, lanterns mounted on the upper end portions of said arms and arranged in transversely offset relation, a pair of housings supported by said base and positioned in advance of each lantern, each housing having an opening thru which light rays from the adjacent lantern may pass, a plurality of means for guiding a film downwardly in one housing past the respective opening and then diagonally upward to the other housing and thence downwardly past the respective opening, a shaft journaled in and projecting through said housing, a toothed wheel within each housing on said shaft for imparting feeding movements to the film, and means for rotating said shaft.

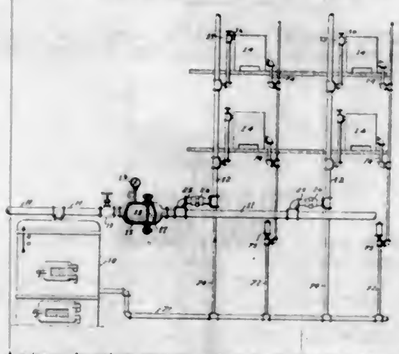
1,681,724. WINDSHIELD-WIPER ADJUSTER. JOSEPH DEMAND, New York, N. Y., assignor to D. & R. Auto Products Company, Inc., Jamaica, N. Y., a Corporation of New York. Filed Mar. 10, 1924. Serial No. 698,025. 5 Claims. (Cl. 15—255.)

1. The combination, with a wiper having a flexible supporting arm, of an adjusting device therefor comprising a bar having an open channel recessed in one of its lateral surfaces to receive said arm and thereby permit said bar to be applied to said arm by relative lateral movement and moved lengthwise thereof, the walls of said channel affording contacting surfaces whereby angular movement of said bar in the plane common to the axes of said bar and arm is restrained, a jack mounted in said bar at a distance from



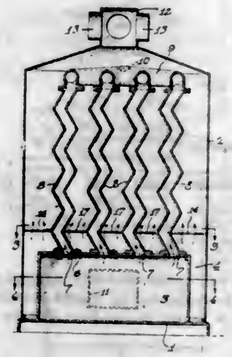
its recessed portion, said jack having a head provided with a groove to receive said arm and means for effecting relative movement between said head and said bar in a direction such as to bind said arm in the recessed portion of said bar and flex the intervening portion of said arm to effect an adjustment.

1,681,725. STEAM-HEATING SYSTEM. JAMES A. DONNELLY, Brooklyn, N. Y., assignor to Warren Webster & Company, a Corporation of New Jersey. Filed June 18, 1924. Serial No. 720,829. 4 Claims. (Cl. 237—67.)



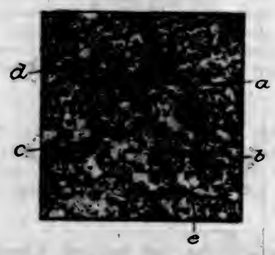
1. A steam heating system, wherein there are associated and combined, a source of steam supply, a substantially horizontal steam main, a plurality of branching mains or risers respectively opening from the steam main at different distances from the source of steam supply, a plurality of groups of radiators of which a separate group is connected to each of the branching main or risers and receives steam therefrom, fixed orifices between the several radiators of each group and the respective branching mains or risers to cause the steam therefrom to be supplied to the radiators in predetermined quantities, means in communication with the source of steam supply for initially supplying the system as a whole with steam of a predetermined quantity required for all of the radiators thereof, means having orifices of predetermined area arranged in the respective branching mains between their connection with the radiators and the substantially horizontal steam main and each such orifice proportioned as to area to insure the passage of the predetermined quantity of the steam required by the radiators of the corresponding group.

1,681,726. HEATER. STANLEY R. DU BRIE, Grosse Pointe Park, Mich. Filed Mar. 21, 1928. Serial No. 263,354. 5 Claims. (Cl. 126—116.)



1. A heater comprising a casing, a fire box therein, flues communicating with said fire box and extending upwardly into said casing, an air inlet to the casing, and baffles between said flues, said baffles closing the spaces between the flues at the ends of said spaces and leaving clearance intermediate said ends.

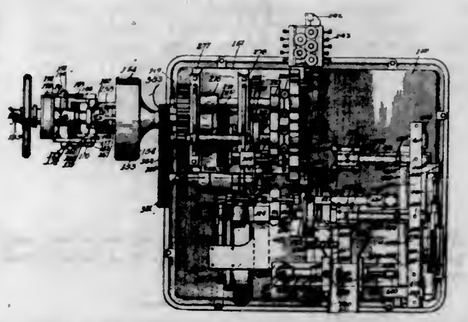
1,681,727. ARTIFICIAL CAST STONE AND PROCESS OF PRODUCING THE SAME. FREDERIC M. EMERSON, Boston, Mass., assignor to Emerson & Norris Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 10, 1927. Serial No. 212,048. 23 Claims. (Cl. 18—60.)



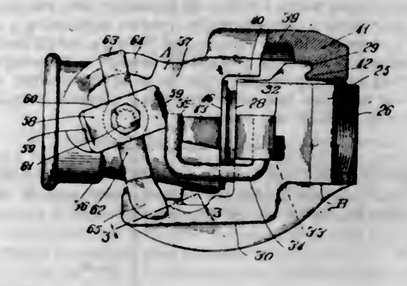
1. The process of casting artificial stone to produce a revealed, textured surface which consists in preparing a sand mold, roughening a surface thereof corresponding to a revealed face of the piece to be cast by applying thereto irregularly arranged granular particles to produce a mold surface presenting irregularly arranged elevations, fluid coating said mold surface by spattering or spraying thereon masses of paraffin commingled with an oily fluid, and introducing into the mold a wet, stone-producing compound containing hydraulic cement.

1,681,728. MACHINE FOR MAKING SPIRAL SPRINGS. JOHN F. GAIL, Evanston, Ill., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Apr. 28, 1922. Serial No. 557,121. 51 Claims. (Cl. 140—78.)

1. In a spiral spring making machine, the combination of feed rolls, means for continuously operating said feed rolls to move forward a length of wire, a pivotally mounted bender engaging said wire fed forward by said rolls, means for swinging said bender on its pivot as it engages said wire so as to shape the same into helical form, means for temporarily arresting the effect of said feed rolls, while maintaining them in rotation, a pitch controller, means for moving said pitch controller to regulate the pitch of the spring convolutions, and a cutting device operative during the period of rest of the wire.



1,681,729. HOSE COUPLER. EGBERT H. GOLD, Evanston, and EDWARD A. RUSSELL, Chicago, Ill.; said Russell assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a Corporation of New York. Filed June 21, 1926. Serial No. 117,431. 9 Claims. (Cl. 285—68.)



1. In combination with a hose coupler comprising a head formed on one side with a cam lug and an arm projecting forwardly from the other side of the head and adapted to engage a cam lug of a mating coupler, the mating couplers being engaged with one another by a downward swinging movement of the forwardly projecting arms, a locking member pivoted to the top of the hose coupler for rotation to locking position so that one end thereof will engage the upper surface of the arm of the mating coupler and move along the arm toward its free end so as to gradually force the arm downwardly into engagement with the cam lug and lock it in this position.

1,681,730. NOVELTY BOX. THOMAS S. GORTON, Jr., Evanston, Ill. Filed Jan. 25, 1927. Serial No. 163,518. 3 Claims. (Cl. 206—446.)

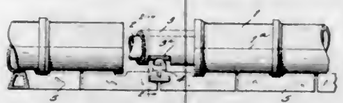
1. A one-piece novelty box made up from a one piece blank having portions thereof adapted for interlocking to provide a bottom, sides, an apertured top, also a closure therefor which is both foldable down over the top or extensible vertically therefrom, a leg having its base con-

nected to the top and swingable thereupon about an axis which is angular with respect to the folding axis of the closure, and adapted to lie thereunder when the closure is



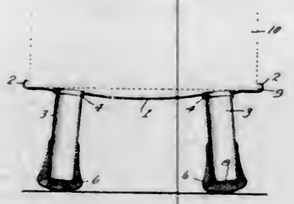
folded down, and means whereby the leg when erect may lock with the closure to hold the same in a vertical position, substantially as described.

1,681,731. CONDUIT CONSTRUCTION FOR UNDERGROUND PIPES. CHRISTIAN GOTTWALD, Cleveland, Ohio, assignor to The Ric-Wil Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 3, 1922. Serial No. 549,236. 11 Claims. (Cl. 137—75.)



1. In combination an underground conduit for pipes comprising a conduit composed of abutting sections and having openings in the bottom thereof, conduit supporting members upon which sections of the conduit rest, and means for supporting a pipe within the conduit comprising a plurality of supporting structures each having a saddle portion extending transversely beneath the conduit and having end portions engaging opposite side faces of the conduit supporting members and pipe supporting portions extending upwardly through said openings.

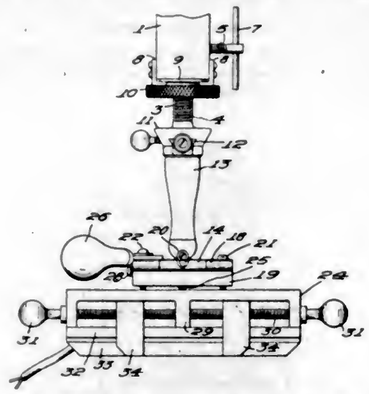
1,681,732. SUPPORT FOR COMPUTING MACHINES. DUDLEY D. GRAY, Lakewood, Ohio. Filed Sept. 2, 1925. Serial No. 54,165. 6 Claims. (Cl. 248—30.)



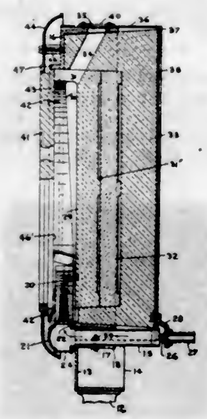
1. An attachment for computing machines comprising a saddle of resilient sheet metal having grips at its opposite ends for cooperation with the base of the computing machine, said plate being curved from end to end, and legs depending from said plate adjacent the ends thereof.

1,681,733. PALETTE FOR GOLD-STAMPING PRESSES. JOSEPH KAHN, Chicago, Ill. Filed Nov. 19, 1927. Serial No. 234,430. 4 Claims. (Cl. 101—27.)

1. In a palette for gold stamping presses, a carriage block, a second block hinged thereto, a handle fulcrumed to said carriage block for movement into and out of engagement with said second block, a post fixedly secured to said second block, a threaded plunger shaft for releasably carrying said post, means for adjustably securing said plunger shaft to the press plunger, a typeholder, adjustable connection between said typeholder and carriage block whereby the typeholder is supported in spaced relation to the carriage block, and a heater for said typeholder.

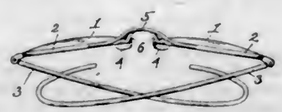


1,681,734. GAS HEATER. WALTER KENNEDY, Cliffside, N. J. Filed Feb. 8, 1923. Serial No. 617,792. 13 Claims. (Cl. 126—92.)



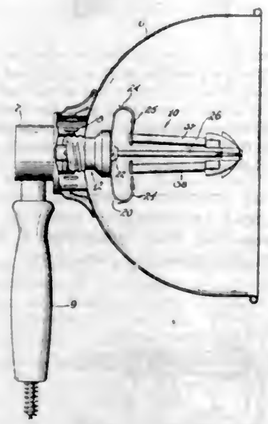
1. In a heater of the class described, a heat radiating element substantially circular upon its horizontal axis, a burner adjacent the lower front of said element, said burner at its outlet curved substantially in conformity with the curvature of said element.

1,681,735. SPECTACLES. LOUISE C. KING, Cleveland, Ohio. Filed May 29, 1926. Serial No. 112,503. 2 Claims. (Cl. 88—43.)



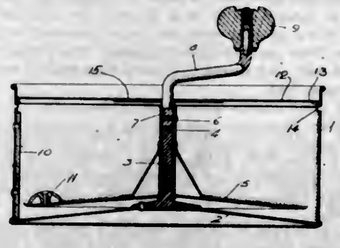
1. Spectacles comprising a pair of lenses having rims, a bridge bar attached at its opposite ends to top portions of the rims, said bar being bowed outwardly with respect to the planes of the lens rims, and a pair of brace bars extending downwardly and inwardly from the bowed portion of the bridge bar, one to each of the lens rims, said bars being bowed outwardly between the lens rim and bridge bar, said bridge and brace bars being formed integrally and being bendable in a plurality of directions to permit universal adjustment of the lenses with respect to each other, the material of said bars being sufficiently stiff to hold the lenses in the positions to which they are adjusted.

1,681,736. THERAPEUTIC LAMP. ANDREW A. KULL, Milton, Wis., assignor to The Burdick Corporation, Milton, Wis., a Corporation of Delaware. Filed July 26, 1926. Serial No. 124,833. 10 Claims. (Cl. 174—177.)



1. In a therapeutic lamp in combination with a reflector having a screw plug receptacle associated therewith, of a radiant energy emitting unit adapted to be screwed into said receptacle to make electrical contact therewith, said unit comprising a plurality of resistor rods forming a path for an electric current, and means for holding said rods in position, including a head having a plurality of heat radiating fins positioned so as to form a minimum obstruction to the emission of radiant energy from said rods and reflector.

1,681,737. PEELING MACHINE FOR POTATOES AND THE LIKE. JOHN TEODOR LINDAHL, Stockholm, Sweden. Filed Jan. 7, 1927, Serial No. 159,663, and in Sweden June 2, 1926. 2 Claims. (Cl. 146—49.)



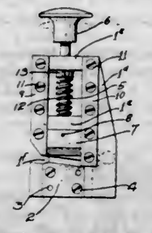
1. A peeling machine for potatoes and the like comprising a drum, grinding means on the inside of said drum, a conical bottom in said drum, a vertical stem fixed at the center of said bottom, a tube pivotably mounted on said stem, a conical disc fixed at the lower end of the said tube, grinding means on the upper side of the said disc, a crankshaft provided with a crank and a handle, means for detachably fixing the said shaft to the upper part of the said tube, the lower end of the said shaft bearing against the upper end of the stem, a loose cover plate in the upper part of the drum and a central opening in said cover for permitting it to be removed without removing the rotating parts.

1,681,738. CIGARETTE-MAKING APPLIANCE. OSWALD GWILLIM MANDERSON, Footscray, Victoria, Australia, assignor of one-half to Benjamin Williams, Yarraville, Victoria, Australia. Filed June 5, 1925, Serial No. 35,080, and in Australia Feb. 12, 1925. 3 Claims. (Cl. 131—5.)



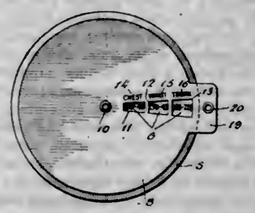
1. In a cigarette making appliance having a tubular mould, a cap having an indented end to fit and remain in the mouthpiece end of the mould until the rest of the mould has been charged with tobacco.

1,681,739. CUTTING DEVICE. DENIS P. MCLAUGHLIN, San Diego, Calif. Filed Mar. 4, 1926. Serial No. 92,190. 5 Claims. (Cl. 164—47.)



1. In a device of the class described, a base member having a backwardly and downwardly inclined supporting surface at its upper side and an upwardly extending ledge at the rear portion of said supporting surface, said base member having a cutting edge forwardly of said ledge, and a cutting member reciprocally supported by said base member with its cutting edge normally positioned above the cutting edge of said base member and inclined with respect thereto.

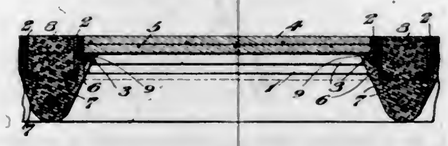
1,681,740. DEVICE FOR COMPUTING UNDERWEAR SIZES. NORMAN G. MEYERS, New York, N. Y., assignor to The B. V. D. Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 22, 1926. Serial No. 103,743. 2 Claims. (Cl. 40—70.)



1. A device for computing underwear sizes comprising a main member provided upon one face with a table of measurements arranged in related groups and upon its oppo-

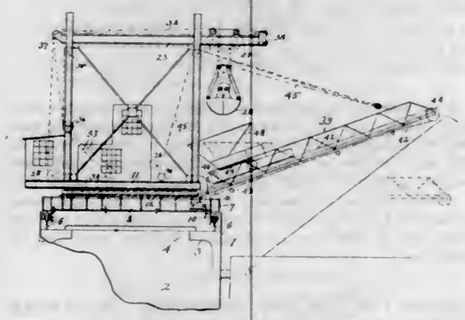
site face with a table of underwear sizes related to each group of measurements and a device connected with said member and covering the opposite surfaces thereof, said device being movable relatively to said member and being provided with apertures located upon a common radius upon opposite surfaces of said device to expose to view on one face one group of said table of measurements and to coincidentally expose to view on the opposite face the corelated size item in the table of sizes.

1,681,741. SHIELD FOR SKYLIGHT AND FLOOR-LIGHT CONSTRUCTION. LOGAN WILLARD MULFORD, Kew Gardens, N. Y. Filed July 20, 1927. Serial No. 207,080. 1 Claim. (Cl. 94—28.)



In a device of the character stated, a lens holder comprising an outer vertical wall forming a shield and an internal inwardly projecting gutter adapted to support a lens, said outer wall being continued below the plane of said gutter and being rearwardly and upwardly deflected at its bottom terminal to form anchoring means and a body of concrete completely enclosing said anchoring means, shield and the underside of said gutter, whereby said shield, anchoring means and gutter are prevented from corrosion.

1,681,742. BOAT UNLOADER. DONALD S. MUNN, South Euclid, Ohio, assignor to The McMyler Interstate Company, Bedford, Ohio, a Corporation of Ohio. Filed May 20, 1925. Serial No. 31,488. 2 Claims. (Cl. 214—14.)



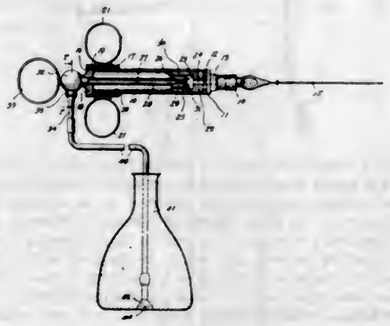
1. The combination with a vessel, of a carriage mounted on the deck of said vessel, said carriage spanning the hatch of the vessel and being movable longitudinally of the vessel, a turntable mounted on said carriage and having an opening adapted to be positioned over the hatch, said carriage and turntable having open central portions, an outwardly extending boom secured at its inner end to the turntable, a conveyor on the boom, a feed hopper supported above the inner end of the conveyor, a superstructure carried by the turntable, a track carried by the superstructure over the open central portion of the turntable and carriage and projecting over said hopper, a trolley on said track, means for shifting the trolley on the track from a position over the open central portion of the turntable to a position over said hopper, a hoisting member suspended from the trolley, means for raising and lowering said member through the opening in the turntable and for discharging the same into the hopper, and means for adjusting said boom and turntable.

1,681,743. CONTAINER-CAP MEANS. CONRAD N. PETERSON, Camp Kearney, Calif. Filed May 26, 1924. Serial No. 715,934. 6 Claims. (Cl. 220—84.)



1. In a container cover means, a receptacle having a throat-like extension provided with a ridge and an inwardly tapered end formed on the upper end of the said throat-like extension, a bar pivotally mounted near the lower end of the said throat-like extension and a considerable distance from and below said ridge and a cover hinged on said bar adapted to fit on said ridge and inwardly tapered end.

1,681,744. LOCAL-ANÆSTHETIC SYRINGE. GEORGE P. PITKIN, Bergenfield, N. J. Filed June 7, 1927. Serial No. 197,042. 2 Claims. (Cl. 128—220.)



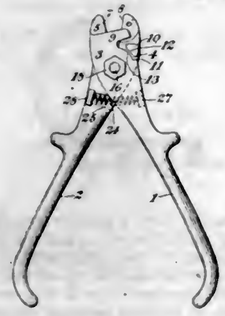
1. The herein described anæsthetic syringe comprising a barrel having a needle connection at one end, a piston slidable within the barrel, said piston having a socket within it, a tubular rod connected to the piston, the end of the rod adjacent to the piston constituting a valve seat, a valve seated loosely within the piston socket and adapted to seat against said seat, means to reciprocate the piston and rod to cause fluid to pass through the rod and piston past the valve, an abutment pin being provided to prevent the valve from seating closely against the piston remote from said seat, and means to convey fluid from a receptacle to said piston rod.

1,681,745. COATING FOR TEXTILE THREADS. EDWARD POHL, New York, N. Y., assignor to Neutrasol Products Corporation, a Corporation of Delaware. Filed July 27, 1925. Serial No. 46,486. 11 Claims. (Cl. 134—22.)

2. A textile fibre or thread having a coating comprising finely divided beeswax intimately mixed with a saponified wax.

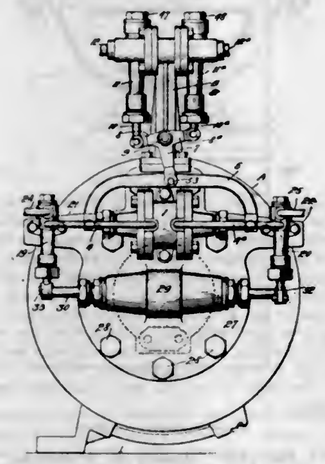
1,681,746. CLIPPER. FREDERIC H. RAUH, South Orange, N. J., assignor to J. Wiss & Sons Co., Newark, N. J., a Corporation of New Jersey. Filed Sept. 1, 1926. Serial No. 132,924. 4 Claims. (Cl. 30—24.)

1. A clipper embodying a pair of relatively-crossed, jawed shanks provided with cooperating cutting edges, positioning means connecting the jawed shanks, the inner face of one shank being provided with an annular flange having a substantially vertical outer face, and the inner face of the other shank being provided with a complementary, annular



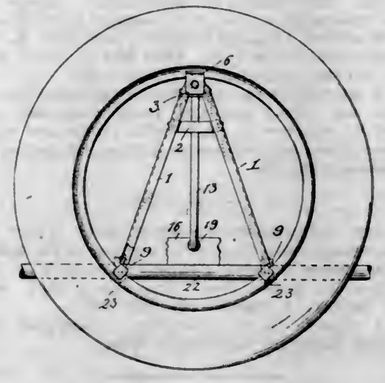
groove having a substantially vertical outer face to receive the annular flange the outer face of the groove making a close sent for the outer face of the flange, the inner face of the flange being spaced from the inner face of the groove, forming a pivotal connection between the shanks.

1,681,747. AUTOMATIC RECEIVER PUMP. HOWARD G. SHORTT, Carthage, N. Y., assignor of one-half to Stebbins Engineering and Manufacturing Company, Watertown, N. Y., a Corporation of New York. Filed Nov. 18, 1926. Serial No. 149,159. 4 Claims. (Cl. 103—246.)



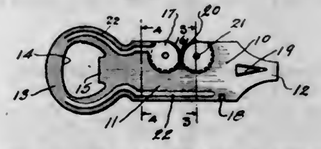
1. In an alternating mechanism of the kind described, the combination of a tank having inlet and outlet valves controlling an inlet and outlet opening, a buoyant member in the tank which rises and falls in the liquid, a cylinder and its piston reciprocable by fluid pressure, air valve devices, having exhaust means, means whereby the buoyant member actuates the air valve devices to control the flow of pressure to said cylinder, one valve being operated when the buoyant member is at the upper limit of its travel, and the other valve being operated when the said member is at the lower limit of its travel, steam and exhaust valve mechanisms arranged in connection with a common passage to the tank, piston rods on opposite sides of the aforesaid piston, a yoke connecting them, a rocker arm engaging the yoke and acting in connection with said steam and exhaust valve mechanisms, so that the latter may be actuated in correspondence with the changing level of the liquid within the tank, the steam valve when the tank is full of liquid, and the exhaust valve when the tank is empty, together with relief valves carried by the steam and exhaust valves.

1,681,748. TIRE CARRIER. FREDERIC W. SLACK, Cleveland, Ohio, assignor, by mesne assignments, to The Peerless Motor Car Corporation, Cleveland, Ohio, a Corporation of Virginia. Filed July 25, 1925. Serial No. 45,983. 6 Claims. (Cl. 224—29.)



1. A tire carrier comprising a V-shaped frame formed by a pair of diverging bars secured together at their converging ends, rim retaining means carried by the frame at the apex of the V and at the free ends of said bars, and means for rigidly securing said V-shaped frame to an automobile and for adjusting the free ends of the bars one with respect to the other.

1,681,749. COMBINATION TOOL. ARTHUR SMITH, Chicago, Ill., assignor, by direct and mesne assignments, to The Barrett Bindery Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 16, 1925. Serial No. 62,843. 1 Claim. (Cl. 76—87.)



In a device of the class described, a sheet-metal body member having a slot opening through one edge thereof, the said body member having offset portions defining pockets at the opposite sides of the slot, blade-sharpening disks mounted for free rotation within the said pockets and positioned in a common plane at opposite sides of the slot with the relatively adjacent sides of their peripheries substantially in contact, the pockets being of a depth substantially equal to the thickness of the disks whereby the outer faces of the disks will be substantially flush with the face of the body member in which the pockets are formed.

1,681,750. SYNTHESIS OF ORGANIC COMPOUNDS. HENRY HERMAN STORCH, New York, N. Y., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of New York. Filed May 16, 1927. Serial No. 191,924. 12 Claims. (Cl. 260—156.)

1. Process for the synthesis of methanol which comprises passing a mixture of hydrogen and carbon monoxide over a heated catalyst comprising copper obtained from a cuprammonium compound.

1,681,751. SYNTHESIS OF METHANOL. HENRY HERMAN STORCH, New York, N. Y., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of New York. Filed May 16, 1927. Serial No. 191,925. 20 Claims. (Cl. 260—156.)

1. A catalyst for the synthesis of methanol from hydrogen and carbon monoxide which comprises copper and a fluoride of a metal of the group consisting of calcium, barium, strontium and magnesium.

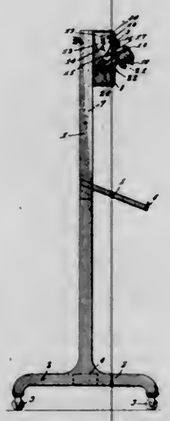
1,681,752. SYNTHESIS OF METHANOL. HENRY HERMAN STORCH, New York, N. Y., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of New York. Filed May 27, 1927. Serial No. 194,855. 6 Claims. (Cl. 260—156.)

2. A catalyst for the production of methanol from hydrogen and carbon monoxide which comprises copper formed by reduction of cupric oxide precipitated from a cuprammonium salt solution in intimate admixture with magnesium hydroxide.

1,681,753. SYNTHESIS OF METHANOL. HENRY HERMAN STORCH, New York, N. Y., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of New York. Filed June 4, 1927. Serial No. 196,631. 7 Claims. (Cl. 260—156.)

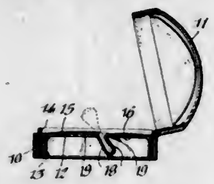
1. A catalyst for the production of methanol which comprises palladium and chromic oxide.

1,681,754. TELEPHONE STAND OR EQUIPMENT. JOHN STRAUB, Ashley, N. Dak. Filed July 29, 1926. Serial No. 125,746. 1 Claim. (Cl. 179—178.)



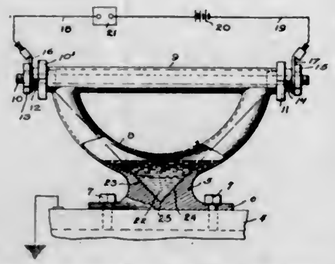
In combination, a telephone box including a receiver arm switch projecting through one side thereof and adapted for vertical movement, a substantially L-shaped receiver having one arm extended laterally from and pivotally supported by said side and its other arm projecting forwardly of said side, a transmitter connected to the front of the box, a vertically disposed latch pivoted intermediate its ends to said side in proximity to said switch, positioned over the pivoted end of the receiver and having at its upper end a rearwardly extending bill movable into the path of movement of said switch arm to latch it in lowered position, a spring connected with the lower end of the latch and to said side of the box and normally acting to maintain said bill in the path of said switch, and a finger engaging lateral extension on the latch at its upper end, forwardly of the bill above the receiver and accessible from the front of the box.

1,681,755. JEWELRY BOX. RUDOLPH J. WARNER and JOSEPH SCHAEFER, Buffalo, N. Y., assignors to Warner Jewelry Case Company, Buffalo, N. Y., a Corporation of New York. Filed June 24, 1926. Serial No. 118,232. 4 Claims. (Cl. 206—76.)



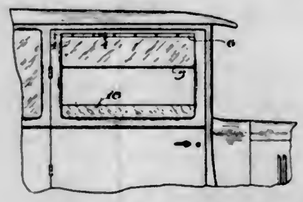
1. The combination with a jewelry box, of a block fitted in the same and consisting of a rigid top plate and a depending rim stamped in one piece, said top plate having a slot, and a ring-holder carried by said plate and having its receiving end arranged in said slot, said holder consisting of a strip of resilient material doubled upon itself to form a pair of jaws, one of said jaws being secured at its free end to the top plate and the other being detached therefrom and free to move bodily relative to its companion jaw.

1,681,756. CIRCUIT BREAKER. WALTER G. WHITLOW, Roanoke, Va. Filed May 1, 1926. Serial No. 106,062. 3 Claims. (Cl. 200—52.)



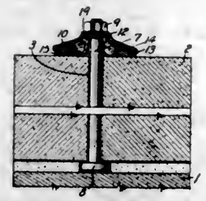
1. A circuit breaker comprising a U-shaped tube having a V-shaped cavity at its central portion extending on the convex side thereof, a base for the tube extending about said cavity whereby the tube is secured to a fixed support, a horizontal tube extending across from one end to the other of the U-tube and communicating at its end with the end portions of the U-tube, perforated insulating bushings in the ends of the horizontal tube, a metallic conductor rod carried through the perforated bushings and extending centrally through the horizontal tube, a circuit connected to the ends of the rod, and a metallic liquid body in the U-tube.

1,681,757. AWNING. HORACE G. WHITMORE, Chicago, Ill. Filed Aug. 10, 1927. Serial No. 211,929. 3 Claims. (Cl. 296—44.)



2. An automobile awning of the character described, comprising a supporting frame, a shield member connected thereto to project laterally outward and downwardly from said frame, a mounting plate slidably mounted on said frame and adjustable means connecting said mounting plate to said frame to move said mounting plate outwardly into engagement with a window opening to support said frame.

1,681,758. COPING SEAL. THOMAS WIGHT, Kansas City, Mo. Filed Jan. 26, 1927. Serial No. 163,659. 6 Claims. (Cl. 72—86.)



1. The combination with coping blocks of a sealer comprising a strip having tapering sides, the sides inbent and downwardly inwardly projected forming bearing flanges, packing elements positioned outwardly of said flanges, and bolts engaged with the strips and with the blocks and compressing the strip upon the packing elements.

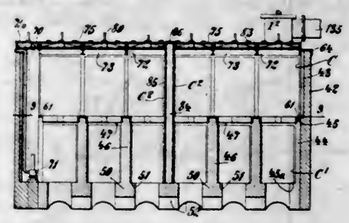
1,681,759. MOSAIC TOY. LENA GRACE APPLEY, St. Paul, Minn. Filed May 28, 1926. Serial No. 112,273. 3 Claims. (Cl. 35—9.)



1. A mosaic toy of the character described, comprising a background having cut-away portions therein, word indicia adjacent said cut-away portions, and pictured representations removably insertible in said cut-away portions, the pictured representations being described by the word indicia adjacent the cut-away portions of the background in which they are insertible.

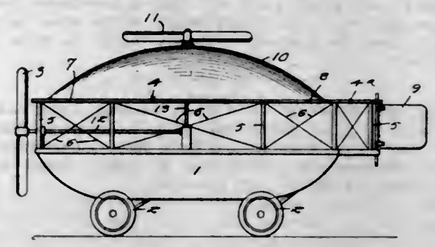
1,681,760. APPARATUS FOR THE MANUFACTURE OF SODIUM SULPHATE AND HYDROCHLORIC ACID. EMANUEL V. BENJAMIN, New Orleans, La., assignor to Myles Salt Company, Limited, New Orleans, La., a Corporation of Louisiana. Filed Jan. 2, 1925. Serial No. 128. 3 Claims. (Cl. 23—284.)

2. In an apparatus of the character described the combination of a decomposing chamber comprising outer vertical walls having formed therewith upper ledges and lower ledges, vertical cross walls in the chamber between said outer walls extending from the bottom of the chamber upwardly a predetermined distance, said cross walls having ledges formed therewith on the same horizontal plane with the lower ledges of the outer walls, and the top level of the cross walls in the same plane with the upper ledges of the outer walls of the decomposing chamber, said cross walls having openings at their lower ends, cross beams extending between the outer walls at their upper ends, detachable



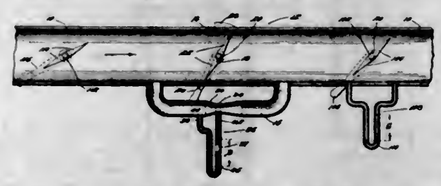
covers for the decomposing chamber supported on said beams and the top ends of the outer walls, removable crates for the material to be treated, supported on the upper ledges of the outer walls, and upon the top faces of the cross walls and the lower ledges of the outer and inner walls, means to introduce a reacting agent into the decomposing chamber and an outlet for gases connected to the decomposing chamber.

1,681,761. SAFETY AEROPLANE. HARVEY D. BLASI, Detroit, Mich. Filed Aug. 12, 1926. Serial No. 128,787. 1 Claim. (Cl. 244—12.)



An aeroplane having a wing of substantially diamond formation in plan and provided at its widest part with an upstanding hollow portion of substantially semi-spherical formation.

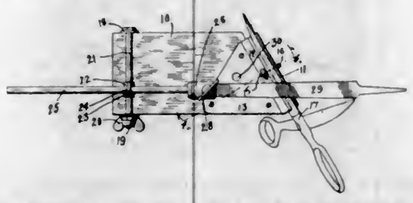
1,681,762. PROPORTIONATE METER. FREDERICK N. CONNET, Providence, R. I., assignor to Builders Iron Foundry, Providence, R. I., a Corporation of Rhode Island. Filed Sept. 8, 1924. Serial No. 736,578. 12 Claims. (Cl. 73—68.)



2. A meter for metering the rate of flow of a fluid in a conduit comprising in combination, a main pipe line, a line containing pressure differential producing means connected in shunt thereto, adjustable means to produce a variable resistance in said main line between the terminals of said shunt line to proportion the flow between said shunt and main lines calibrated to indicate the flow in said shunt and main lines, means responsive to the pressure differential produced in said shunt line, and means actuated by said pressure differential responsive means to automatically adjust said flow proportioning means to regulate the resist-

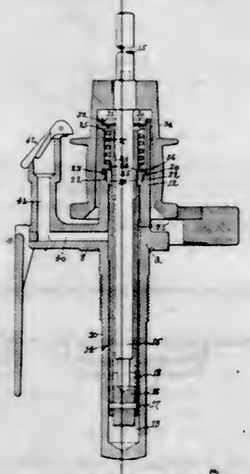
ance in said main line to produce a constant differential in the shunt line whereby the calibrated adjustable resistance producing means may indicate the total rate of flow through said shunt and main lines so long as the proportioning means is open.

1,681,763. SHEAR-SHARPENER VISE. FRANK EATON, Des Moines, Iowa. Filed Apr. 26, 1926. Serial No. 104,786. 2 Claims. (Cl. 76—82.)



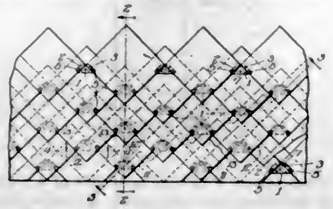
2. A shear sharpening device comprising a base, a vise mounted on one end thereof and arranged at an angle relative to the sides of the base, a guide rod extending across said base from side to side, a sleeve thereon capable of movement from one end of said guide rod to the other end thereof, a file engaging rod slidably mounted relative to said sleeve, said file engaging rod including a fitting adapted to be secured to one end of a file, said guide rod being supported by arms which are pivotally mounted above the base and are capable of being moved to various angles relative to the base and a bolt extending through said base and said arms for locking said guide rod in any of its adjusted positions, said bolt having a nut thereon which, when tightened causes the arms to frictionally engage the sides of the base.

1,681,764. SPINDLE. EDWARD B. FEASTER, Lowell, and CECIL B. ALMY, Marblehead, Mass., assignors to Saco-Lowell Shops, Newton Upper Falls, Mass., a Corporation of Massachusetts. Filed Dec. 31, 1926. Serial No. 158,343. 4 Claims. (Cl. 308—152.)



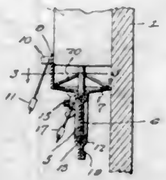
3. In a spindle, in combination, a bolster housing having a base provided with a lower tubular portion extended downward therefrom to form an oil well, and having an upwardly extended tubular portion open at its upper end and provided within it with a rigid socket member opening upwardly, a bolster for the spindle blade insertible into said housing through said upper tubular member and having its lower end extended into said oil well, a ball member attached to said bolster above the rigid socket member and co-operating with the latter to suspend the bolster within said upper tubular member by a ball and socket bearing, a spring located within said upper tubular member above the ball member and under substantial initial compression to force the ball member into firm contact with its co-operating rigid socket member, and means co-operating with said upper tubular member for retaining said spring in its initially compressed condition.

1,681,765. ROOF AND SHINGLE SECURING MEANS. CARROLL C. FIGGE, Chicago, Ill. Filed Apr. 23, 1923. Serial No. 633,828. 7 Claims. (Cl. 108—33.)



1. A shingle holding means for angular butt shingles having a portion for attachment to a shingle of one course and having projecting ears for compressive engagement with the lower angular end of a shingle in an overlying course, and having lateral projections at an angle to each other for engaging the sides of shingles in an intermediate course.

1,681,766. ELECTRIC-METER GUARD. CHARLES J. GILLEN, Carbondale, Pa. Filed Nov. 9, 1926. Serial No. 147,373. 3 Claims. (Cl. 247—2.)



1. An electric meter guard, comprising a pair of plate members substantially counterpart of each other and formed with offset portions at one side, one of said members having the opposite side formed to project over the adjacent portion of the member in spaced parallel reintion to receive the edge of the other plate member, each of said plate members being formed with wire receiving grooves in predetermined relation, and means for securing said plate members in opposed cooperating relation on an electric meter, whereby the wire connections with the meters are covered to prevent access to the meter terminals.

1,681,767. SHADE ROLLER. JOSEPH GOODMAN, Whitneyville, and WILLIAM A. SOMERS, Hamden, Conn., assignors to The Mt. Carmel Manufacturing Company, Mount Carmel, Conn., a Corporation of Connecticut. Filed Aug. 1, 1927. Serial No. 209,694. 7 Claims. (Cl. 166—36.)



1. In a shade roller, a stationary member having a notch or shoulder, an end member having a recess about said stationary member provided with an outer wall comprising

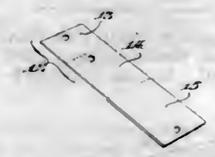
alternately arranged flat and curved portions, a plurality of pawls loosely mounted in said recess so that the end member may turn relative to said pawls, said pawls having hooks adapted to engage in said recess and tails having outer walls to engage the outer wall of the recess and so arranged that when a hook is in the recess the tail of the pawl will engage the adjacent pawl and clamp it against said wall to hold the end member against turning.

1,681,768. STRETCHING FRAME FOR FIBROUS MATERIAL. EMIL GMINDER, Reutlingen, Germany. Filed Nov. 11, 1926, Serial No. 147,652, and in Germany Dec. 19, 1925. 2 Claims. (Cl. 19—130.)



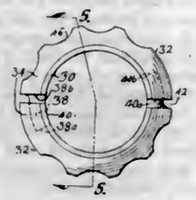
1. A stretching frame for fibrous material including a series of lower rollers, a series of upper rollers mounted for vertical floating movement to permit the passage of fibrous material of varying thickness between the upper and lower rollers, gears connected to said upper rollers, and auxiliary driving gears having their axes disposed at substantially the same elevation as the axes of the upper rollers and meshing with the gears of the upper rollers for driving the latter.

1,681,769. LABEL. CHARLES B. HESTON, Philadelphia, Pa. Filed May 24, 1927. Serial No. 193,783. 2 Claims. (Cl. 40—2.)



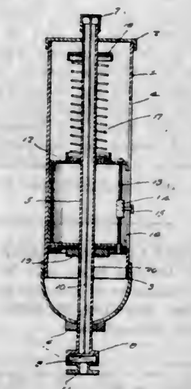
1. A label comprising a plurality of parts detachably connected into a single strip and having one surface coated with adhesive, a like identifying mark on each part, and a reinforcing part secured to the coated surface of one part.

1,681,770. METALLIC PACKING RING. RUDOLPH H. KAUTZKY, Des Moines, Iowa, assignor to Walter L. Kautzky, Des Moines, Iowa. Filed Sept. 6, 1927. Serial No. 217,758. 1 Claim. (Cl. 288—3.)



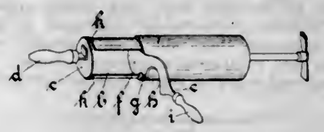
A metallic packing ring comprising a pair of similar sections having overlapping joints with radial shoulders, the inner overlapped joint portions being longer than the outer overlapping joint portions, the cross sectional areas of the inner shoulders being less than the cross sectional areas of the outer shoulders, the inner shoulders abutting for resisting the friction of the packing ring excessive of what is necessary to maintain a tight joint on its rod, and the outer shoulders not abutting to allow the two sections to automatically take up and close uniformly as wear sets in, each section having a side face in a plane at right angles to the axis of the ring and an inclined side face and an intermediate outer face concentric with the axis of the ring, the outer portion of each section being provided with regularly spaced recesses of substantial, circumferential length and of width greater than that of the outer, intermediate face, so as to extend into the inclined face, whereby the ring will be afforded flexibility and the thicker portion thereof will be subjected to inward radial pressure over substantial areas, thus maintaining the packing ring in an undistortable steam-tight condition at all times.

1,681,771. TIRE GAUGE. THOMAS F. KEARNEY, Sharon, Pa. Filed Nov. 2, 1926. Serial No. 145,822. 1 Claim. (Cl. 73—111.)



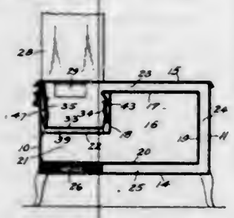
In a pressure gauge a slotted cylinder, a spring pressed piston slidably mounted in said cylinder, an adjusting screw carried by the piston, a screw threaded sleeve carried by and adjustable upon said screw, a stem carried by said sleeve and extending outwardly through the slot in said cylinder, and an indicator on the outer end of the stem.

1,681,772. GREASE-GUN-CHARGING DEVICE. HANS KREIDEL, Wiesbaden, Germany. Filed July 14, 1925, Serial No. 43,541, and in Germany July 17, 1924. 2 Claims. (Cl. 221—475.)



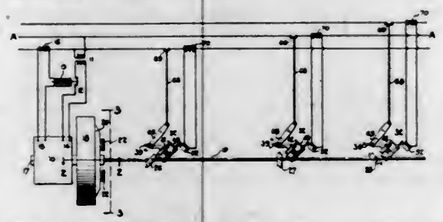
1. A device for filling grease into grease pumps or grease guns comprising a tubular scoop adapted to fit into the cylinder of the grease gun, said scoop being open at one end and closed at the other and having a longitudinal slot extending along the whole length thereof, said scoop also having a transverse slot adjacent its closed end and extending at least 180° about its periphery, and a discharging member having a portion thereof dimensioned to fit within said scoop and to be passed laterally into said scoop through said transverse slot, said member being further provided with a portion for engaging said longitudinal slot and to be guided thereby when said member and scoop are moved relatively and longitudinally of each other for the purpose of discharging the grease from the scoop into the cylinder of the grease gun.

1,681,773. COOKING STOVE. FRANK S. LANG, Seattle, Wash. Filed June 20, 1925. Serial No. 38,425. 2 Claims. (Cl. 126—15.)



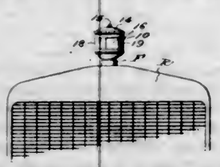
1. In a cooking-stove, a fire-pot, liners therefor, said liners including a front member having ports below an imperforate lower portion, and an imperforate floor member extending between the front and back members, said liners being arranged to provide within the fire-pot two ducts for the admission of air into the combustion space inclosed by said liners, one of said ducts discharging air through the ports of said back member into the upper rear portion of said space and the other duct discharging air through the ports of said front member into the lower front portion of said space and immediately above said floor member, and means for controlling the last mentioned duct whereby air for combustion purposes is supplied exclusively into the upper rear portion of the combustion space.

1,681,774. ALTERNATING-CURRENT SWITCH. FREDERICK W. LEE, Owings Mills, and MYRICK W. PULLEN, Towson, Md., assignors of one-fourth to Leon Edelson, Philadelphia, Pa. Filed Oct. 24, 1925. Serial No. 64,484. 23 Claims. (Cl. 175—294.)



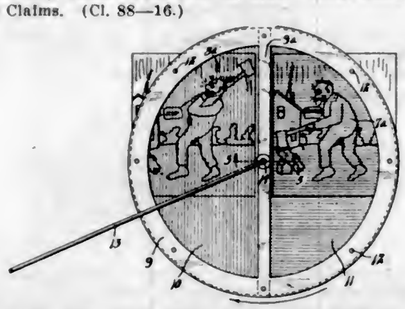
2. In an alternating current circuit controlling system, a circuit breaker device, means normally in engagement with said circuit breaker device, a continuously operating element having definite sequences of mechanical position bearing a direct relation to the phase of the current to be operated upon, and means actuated by virtue of certain predetermined conditions in said system for interconnecting said circuit breaker engaging means and said continuously operating element whereby to disengage said engaging means from said circuit breaker device.

1,681,775. COOLING AND FILLING CAP FOR RADIATORS. FRANK Z. MATHIEU, Midland, Mich. Filed June 22, 1926. Serial No. 117,787. 6 Claims. (Cl. 220—85.)



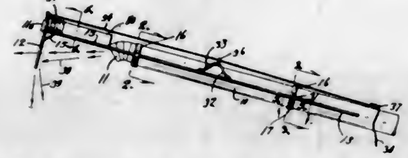
1. In a radiator cap, a casing formed with a port therethrough, and a sleeve rotatably mounted around said casing over the said port to adjusted positions thereon, said sleeve formed with a port therethrough for adjusted registry with said casing port to form an air passage of desired area, and the said sleeve rotatable to retained position with the port therein in non-registry with said casing port with the sleeve closing the casing port.

1,681,776. APPARATUS FOR PRODUCING OPTICAL EFFECTS FROM PICTURES. JAMES P. MCDONNELL, Waverly, Minn. Filed Feb. 18, 1925. Serial No. 9,948. 2 Claims. (Cl. 88—16.)



1. Apparatus of the class described for producing apparent action from still pictures, comprising a picture having represented thereon certain figures or characters of one color and certain figures or characters of a different color, a revoluble member having a transparent section of said first mentioned color and a transparent section of said second mentioned color, means for supporting said member for revolution over said picture whereby when said member is revolved and said picture viewed there through said figures will be alternately obscured and intensified and will appear to move.

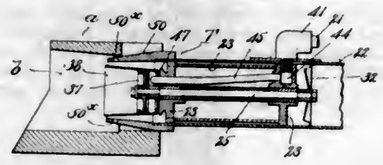
1,681,777. EXTENSION HOOD FOR WIND STACKERS. CHARLIE MCNABB, Scranton, Iowa. Filed Oct. 12, 1925. Serial No. 62,007. 3 Claims. (Cl. 302—10.)



1. In a device of the class described, the combination of a wind stacker pipe, clamp devices mounted thereon in positions spaced from each other longitudinally of the pipe, pairs of spaced bracket fingers on the opposite sides of said clamp devices, rollers between the forward pairs of fingers near the lower parts thereof, rollers between the rearward pairs of fingers between the upper parts thereof, arms slidably mounted between the pairs of fingers on the opposite sides of the pipe, and means for locking said arms in different positions of their longitudinal adjustment on said clamps, a cross plate pivoted to the forward ends of said arms, spaced fingers on said cross plate, yielding means for connecting some of said fingers with said arms, for tending to move the fingers toward one limit of their pivotal adjustment, and a flexible member connected with said plate for moving the fingers against the tension of the yielding means.

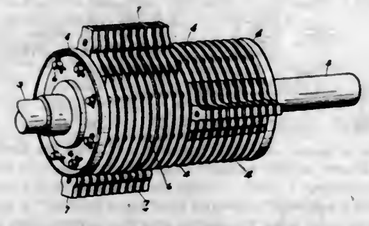
1,681,778. COMBINED MIXING AND COMBUSTION CHAMBER FOR LIQUID-FUEL-BURNING APPARATUS. CARL A. OLSEN, Lynn, Mass., assignor, by mesne assignments, to A T Oil Burner Co., Lynn, Mass., a Corporation of Massachusetts. Filed July 19, 1926. Serial No. 123,562. 7 Claims. (Cl. 158—77.)

1. A liquid fuel burning apparatus comprising a burner tip; means to supply fuel to said tip; means to supply air under pressure to said tip; a pilot; a combined mixing and combustion chamber arranged to surround a portion of said tip and said pilot and to extend a substantial distance therebeyond; said tip having a fuel exit; a nozzle forming part of said tip and surrounding said exit and through which air under pressure passes into said



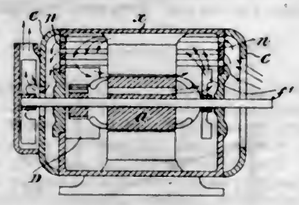
chamber, said nozzle having air passages adjacent its mouth whereby air is directed against the wall of said chamber to thereby pick up and mix with stray portions of fuel which may have broken through the film of air emanating from the mouth of said nozzle so that all the fuel entering said chamber may be carried into a flame emanating from said chamber.

1,681,779. CRUSHING APPARATUS. STANLEY F. OSBING, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Oct. 26, 1925. Serial No. 64,889. 8 Claims. (Cl. 83—11.)



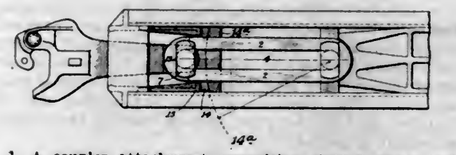
1. In a crushing machine comprising a casing and a rotor within the casing, said rotor comprising the combination with a shaft and a plurality of concentric discs fixed to said shaft in spaced relation longitudinally thereof, of radially projecting arms arranged in longitudinally extending rows equally spaced circumferentially of the rotor each row extending half the length of the rotor from the end opposite the adjacent row as and for the purpose set forth.

1,681,780. DYNAMO-ELECTRIC MACHINE. NICOLO PENSABENE, London, England. Filed Dec. 27, 1927, Serial No. 242,860, and in Great Britain Nov. 25, 1926. 1 Claim. (Cl. 172—36.)



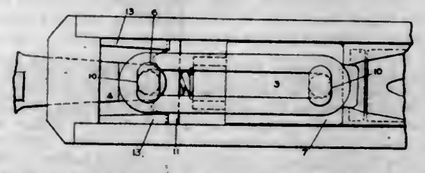
A dynamo electric machine having an enclosing casing with inwardly extending spaced ribs on its inner wall, a shaft and armature positioned centrally of said casing, a split pole field element comprising a plurality of separate magnetic paths supported by said ribs between said casing and armature, a plurality of cooling tubes extending lengthwise of said casing between said ribs, said armature having passages formed lengthwise thereof, means for causing flow of air through said first mentioned tubes for external cooling, and a separate means for circulating air about said tubes and through the passages in the armature in a closed internal cooling circuit.

1,681,781. COUPLER ATTACHMENT. JOHN A. PILCHER, Roanoke, Va. Filed Apr. 18, 1921. Serial No. 462,082. 23 Claims. (Cl. 213—66.)



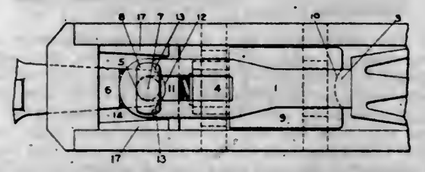
1. A coupler attachment comprising slotted upper and lower links, a coupler having lugs on the top and bottom surfaces of the butt of greater lateral extent than the width of the slots in the links, said lugs being insertable and removable through said slots when arranged at right angles to their normal position, corresponding arc-shaped pulling surfaces on coupler and links permitting, when the links and coupler have been locked together, lateral angling of the coupler relative to the links.

1,681,782. COUPLER ATTACHMENT. JOHN A. PILCHER, Roanoke, Va. Filed Sept. 1, 1922, Serial No. 585,771. Renewed June 26, 1928. 3 Claims. (Cl. 213—66.)



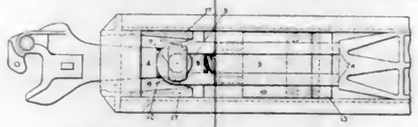
2. In a device of the character described, a coupler attachment comprising a pair of links, a coupler and a cushioning mechanism, trunnions on the coupler butt and on the main portion of the cushioning mechanism engaging said links and permitting, respectively, rotary movement between the coupler and links and between links and cushioning mechanism, and means for holding the links on said trunnions.

1,681,783. DRAFT CONNECTION. JOHN A. PILCHER, Roanoke, Va. Filed Sept. 1, 1922. Serial No. 585,772. 27 Claims. (Cl. 213—72.)



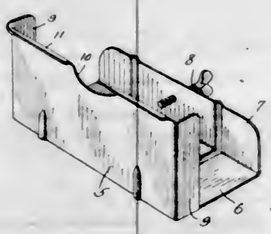
16. A coupler yoke having slotted upper and lower arms, a coupler, the butt thereof having a slot and projection engagement with the forward ends of the yoke arms, a cushioning mechanism, a front follower, the butt of said coupler being so formed that all points on its rear surface lie in a surface of revolution, the forward face of said front follower being formed to cooperate with the rear face of said coupler butt, whereby said front follower may rotate about said coupler butt to permit the easy insertion of said cushioning mechanism.

1,681,784. COUPLER YOKE. JOHN A. PILCHER, Roanoke, Va. Filed Sept. 1, 1922, Serial No. 585,773. Renewed Jan. 20, 1928. 8 Claims. (Cl. 213—72.)



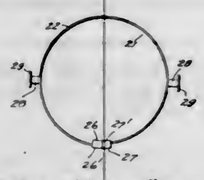
1. In a device of the character described, a coupler yoke, having slotted upper and lower arms, a coupler, trunnions on the top and bottom faces of the coupler butt projecting through the slots in the yoke arms, plates above and below the yoke, the plate below engaging the bottom trunnion supporting coupler and yoke and holding the top trunnion near the top plate, thereby limiting the vertical movement of coupler butt.

1,681,785. HOLDER. JAMES KING RICHIE, Butler, Pa. Filed July 9, 1927. Serial No. 204,591. 3 Claims. (Cl. 224—29.)



1. An article holder of the class described including a body portion having a bottom, an upstanding member at the forward end of the bottom, said upstanding member having rearwardly extended flanges adapted to engage an instrument board of a motor vehicle, and means cooperating with the flanges for clamping the article holder to the instrument board.

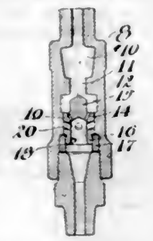
1,681,786. COFFEE-SACK HOLDER. SAMUEL RICKLES, Seattle, Wash. Filed May 26, 1925. Serial No. 32,884. 4 Claims. (Cl. 53—3.)



1. The combination with a coffee urn comprising an outer casing, a crock secured therein with its upper edge disposed to afford a ledge below the upper edge of said casing, and a porous sack, of a support for said sack, said support consisting of a tube adjustable diametrically to enter the crock and also to seat upon said ledge, and means protruding from the tube to engage upon said ledge for suspending the tube when the latter extends into the crock.

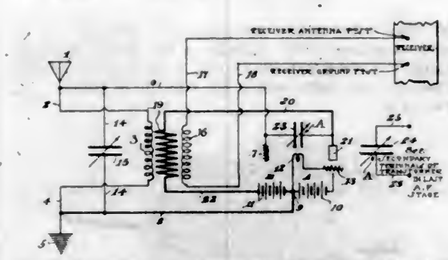
1,681,787. OIL PUMP FOR STEAM ENGINES. HUGO F. RIPKEN, Minneapolis, Minn., assignor of one-half to Charles A. McCulloch, Minneapolis, Minn. Filed Feb. 6, 1926. Serial No. 86,607. 11 Claims. (Cl. 184—52.)

1. An oil feed mechanism, having a casing with a shoulder therein, a piston, mounted in said casing and having an offset portion to register with the shoulder of the casing, the shoulder and the offset portion being positioned to cooperate upon an operative stroke of the piston to form a compression chamber, a normally open by-pass past the piston, and a normally closed by-pass past the piston being



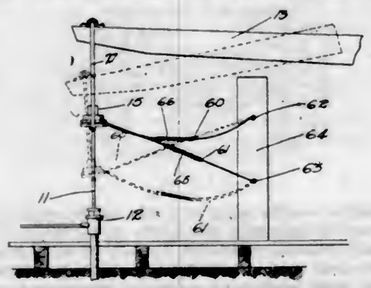
opened by an operative movement of said piston, said normally open by-pass being smaller than the normally closed by-pass.

1,681,788. STATIC ELIMINATOR. HARVEY H. RUCKEL, Pittsburgh, Pa. Filed June 24, 1925. Serial No. 39,306. 2 Claims. (Cl. 250—20.)



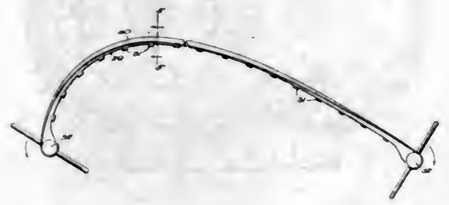
1. In a means for the purpose set forth an aerial, an "A" battery, a "B" battery connected together, a vacuum tube including a grid, a plate and a filament, an antenna post for a receiver, a ground post for a receiver, a primary coil connected with the aerial and the ground and having its aerial end connected to said grid and its other end connected to the "A" battery, a secondary coil connected to the antenna post and the ground post of the receiver and coupled with the primary coil, a variable condenser shunted across said primary, a reversely wound coil superimposed over said primary and secondary and having one end connected to said plate and its other end to the filament of said tube through said "B" battery, and a variable condenser interposed between and connected with said grid and plate.

1,681,789. SUCKER-ROD ROTOR. SUMNER B. SARGENT, Los Angeles, Calif., assignor to Sargent Engineering Corporation, a Corporation of California. Filed Mar. 19, 1924. Serial No. 700,435. 7 Claims. (Cl. 255—14.)



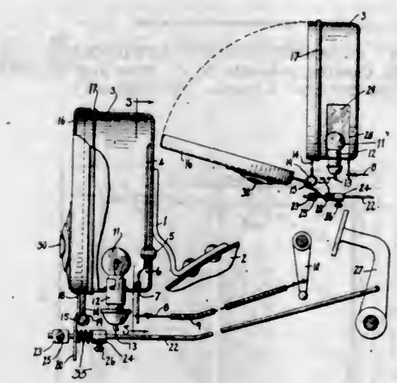
1. In a rod rotator for oil wells, the combination of: a polish rod; means comprising a clamp resting on a plate which is pivotally suspended below a walking beam for vertically reciprocating said polish rod; horizontal actuating means for rotating said rod about a vertical axis; and externally extending means angularly movable in vertical planes and secured at different levels to a fixed member supporting said walking beam for actuating said actuating means.

1,681,790. PROCESS FOR CONSTRUCTING THE HULLS OF AIRSHIPS. THOMAS B. SLATE, Glendale, Calif., assignor to Slate Aircraft Corporation, a Corporation of Nevada. Filed Aug. 25, 1925. Serial No. 52,390. 9 Claims. (Cl. 153—68.)



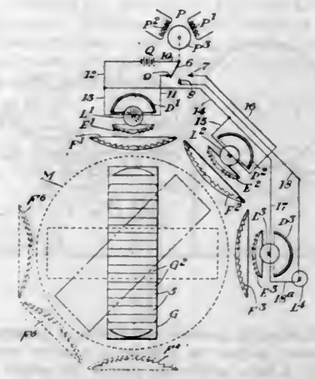
1. The process of constructing the hull of an airship consisting in forming corrugated metal strips of the desired curvature for a section of an airship hull said strips having their corrugations tapered to a point at the end of the strip, sealing the longitudinal edges of adjacent strips together to form the hull, and affixing corrugated rings to the hull transversely thereof.

1,681,791. AUTOMOBILE SIGNAL. JOSEPH C. SLOANE, Detroit, Mich., assignor of one-half to Alfred T. Harrow, Detroit, Mich. Filed Nov. 26, 1926. Serial No. 150,719. 4 Claims. (Cl. 116—36.)



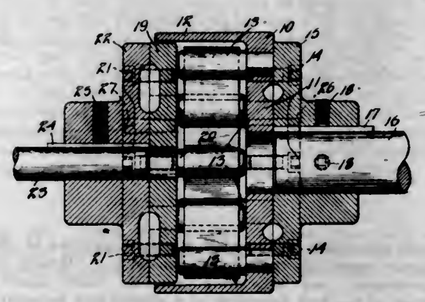
1. An automobile signal comprising a casing having signals indicating a left or right hand turn, a pointer pivotally mounted in the casing and adapted to be moved over the signals, an incandescent lamp within the casing adapted to illuminate the pointer and signals, means connecting the pointer with the automobile steering mechanism whereby operation of the steering mechanism in either direction produces a corresponding movement of the pointer, a cap hinged to the lower side of the casing and adapted to form a cover therefor, the said cap being provided with a depending end, a rod connecting the said depending end of the cap with the automobile brake pedal whereby actuation of the pedal moves the cap on its hinge to expose the pointer and signals and release of the brake pedal moves the cap to cover the pointer and signals.

1,681,792. LIGHT SIGNAL. CLARENCE S. SNAVELY, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Mar. 8, 1923. Serial No. 623,755. 4 Claims. (Cl. 177—327.)



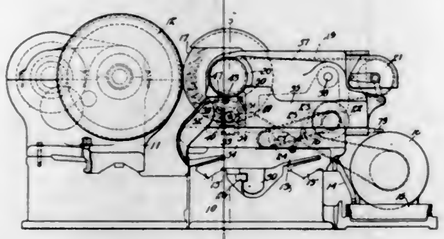
3. A light signal comprising a casing having an opening, a plurality of pairs of light sources disposed around an axis, the two sources of each pair being diametrically opposite each other, means associated with each source for projecting therefrom towards said axis an original beam of parallel rays, and a light deflector pivotally mounted for rotation about said axis, means for rotating said deflector into a plurality of positions in each of which it redirects the beams from a different pair of said sources through said opening in an ultimate beam of elongated cross section having a different angular position, said deflector comprising a group of spaced prisms for redirecting the beam from one source of each pair and a second group of spaced prisms interspersed between the prisms of the first group for redirecting the beam from the other source of each pair.

1,681,793. FLEXIBLE COUPLING. AMOS P. STEINER, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa., a Corporation. Filed Mar. 15, 1927. Serial No. 175,543. 1 Claim. (Cl. 64—36.)



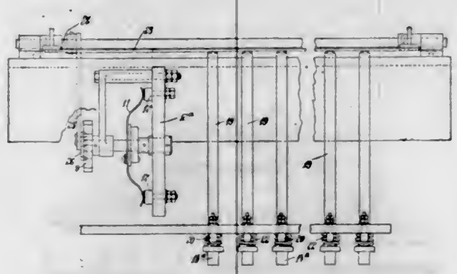
Flexible coupling means for a pair of alined shafts having flanges on the ends, comprising a pair of opposed spaced disks, a series of axially disposed pins carried by one of said disks, a series of pins carried by the other of the disks, a flexible member passing alternately around the pins on one disk and those on the other to provide driving connection between the disks, tapered pins adapted to seat in tapered sockets in the flanges on the shafts and in the disks to center the disks with the shafts, and means for removably securing the disks to said flanges, substantially as set forth.

1,681,794. CROWNING DEVICE FOR ROLL-GRINDING MACHINES. PAUL STONER, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Feb. 25, 1926. Serial No. 90,641. 2 Claims. (Cl. 51—49.)



1. A roll grinding machine comprising a grinding wheel, a work holder, means for causing a relative traverse between them, a base pivoted to permit the wheel to swing tangential to the work, cam followers on the base, a cam shaft having thereon a pair of oppositely positioned cams for each cam follower adapted to be selectively engaged therewith, means for rotating the cam shaft in timed relation with the relative traverse of the grinding wheel and the work carriage and means for varying the speed of rotation of the cam shaft with respect to the relative traverse of the grinding wheel and the work holder whereby the depth of concavity or convexity on the work may be varied in proportion to the length of the work or to cause equal reduction in work of different lengths, substantially as set forth.

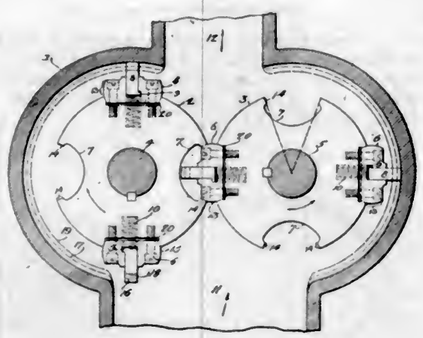
1,681,795. ELECTRICAL DISPLAY APPARATUS. PAUL HENRY WALLER, London, England. Filed Sept. 8, 1927, Serial No. 218,275, and in Great Britain July 23, 1926. 4 Claims. (Cl. 200—5.)



1. In electrically illuminated display apparatus of the character described, the combination with a plurality of independently and selectively operable main display switches of the kind described, of a step-by-step secondary display switch, and means interposed between said main switches and said step-by-step switch so that operation of any main display switch is accompanied by a simultaneous movement of said step-by-step switch.

1,681,796. ROTARY PUMP. EVERT J. WENDELL, Wayne, Pa. Filed Feb. 15, 1926. Serial No. 88,307. 1 Claim. (Cl. 301—126.)

In a pump, the combination with a housing, of a pair of peripherally-contacting rotors mounted in said housing and each having a plurality of longitudinal sockets, teeth mounted in said sockets and having projecting vanes adapted to sweep the surfaces of the rotor chamber, said rotor having also a plurality of longitudinal recesses

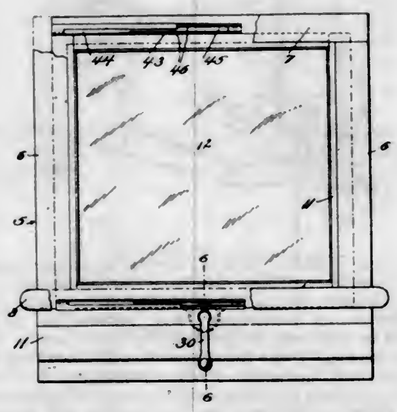


adapted to register with and receive the teeth of the opposite rotor as the two rotors simultaneously revolve, and having their outer parts corresponding in form with said sockets.

1,681,797. ALLOY STEEL. HENRY B. ALLEN, Philadelphia, Pa., assignor to Henry Disston and Sons, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 27, 1925. Serial No. 26,303. 3 Claims. (Cl. 75—1.)

1. A high carbon tool steel containing only nickel and molybdenum as alloying elements, the nickel content ranging from 1% to 1.5% and the molybdenum content ranging from .1% to .7%.

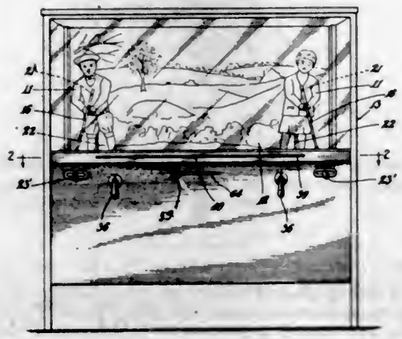
1,681,798. CASEMENT-WINDOW ATTACHMENT. ALBERT H. CARRIER, Asheville, N. C. Filed July 20, 1927. Serial No. 207,289. 8 Claims. (Cl. 268—98.)



1. In an attachment of the class specified, the combination with a frame and a casement sash, of means for opening and closing the sash and consisting of pivot devices connected to the sash and a portion of the frame and including a brace-arm pivoted at its ends to the frame and sash,

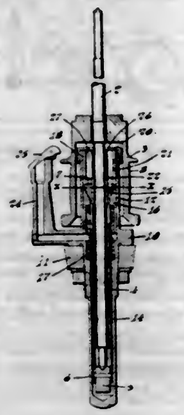
a sliding rack operatively associated with the sash and frame, and an operating shaft carrying means to operate the brace arm and a pinion to mesh with the teeth of the rack and swing the sash inwardly and outwardly.

1,681,799. GAME APPARATUS. CHARLES W. CLARK, Brooklyn, N. Y. Filed Nov. 12, 1927. Serial No. 232,732. 14 Claims. (Cl. 273—87.)



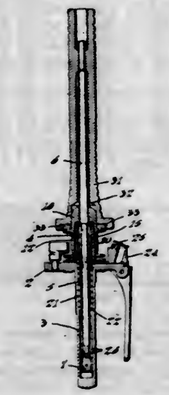
1. In a toy golf game, a runway, manikins at opposite ends of said runway, clubs connected with said manikins, devices adjacent said manikins for elevating a ball into position to be struck by said clubs, and connections between such elevating devices to cause them to act alternately.

1,681,800. SPINDLE. EDWARD B. FEASTER and ALBERT W. ARNOLD, Lowell, Mass., assignors to Saco-Lowell Shops, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 3, 1923. Serial No. 666,293. 7 Claims. (Cl. 308—152.)



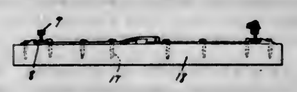
5. In a spindle, the combination of a spindle blade, a bolster supporting said blade for rapid rotation, a whirl carried by said blade, a ball and socket bearing supporting said bolster in a suspended position, a spring within the housing below the ball and socket bearing, a sleeve within the housing above the ball and socket bearing and movable in said housing to move said ball and socket bearing within the housing and effect initial compression of said spring, and means cooperating with said sleeve and housing to retain said spring in its initially compressed condition.

1,681,801. SPINDLE. EDWARD B. FEASTER, Lowell, and CECIL B. ALMY, Marblehead, Mass., assignors to Saco-Lowell Shops, Newton Upper Falls, Mass., a Corporation of Massachusetts. Filed Aug. 7, 1926. Serial No. 127,928. 1 Claim. (Cl. 308—152.)



In a spindle, in combination, a bolster housing having a rail-engaging base, a tubular member extended upwardly from said base and open at its upper end, and a tubular member extended downward from said base and closed at its lower end to form an oil well, a bolster for the spindle blade insertible into the housing through the upper tubular member thereof and suspended at its upper end and having its lower end extended into said oil well, a ball and socket bearing for said bolster having a member attached to the bolster, and a co-operating member insertible into the housing through the open upper end of the upper tubular member of said housing and movable lengthwise of the said upper tubular member, a sleeve slidable within the upper tubular member of the housing and co-operating with the bearing member attached to the bolster, a spring located in said housing below said sleeve and co-operating with the latter, said spring being constructed and arranged to be placed under a substantial initial compression by movement of the ball and socket bearing members within and lengthwise of the upper tubular member of the housing, and means co-operating with the upper tubular member of the housing and with the upper member of the ball and socket bearing to retain said spring in its initially compressed condition.

1,681,802. RAIL FASTENER. SAMUEL GAGLIARDI and FRANK BRUTTO, Missoula, Mont. Filed Sept. 13, 1927. Serial No. 219,264. 2 Claims. (Cl. 238—288.)



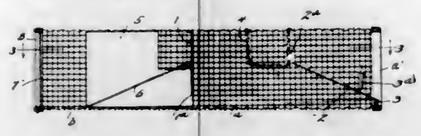
1. In combination, a sectional rail fastener comprising a pair of fastener sections having their outer ends engageable with the opposite rails of a railway and their inner ends provided with inter-gripping heads, and an insulator plate carried by one of said heads and retained in position between said heads by reason of the intergripping engagement thereof.

1,681,803. PUSH POLE. GROVER F. GATES, Degraff, Ohio. Filed Nov. 14, 1927. Serial No. 233,026. 5 Claims. (Cl. 213—224.)



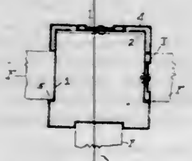
1. The combination with a locomotive having a push pole pocket on an end sill, of a horizontally disposed sleeve member pivoted to said sill to swing about a vertical axis disposed centrally of the pocket, and a push pole slidably mounted in said sleeve and engaging in said pocket.

1,681,804. ANIMAL TRAP. BENJAMIN F. HATCHELL, Crockett, Tex. Filed June 21, 1927. Serial No. 200,417. 1 Claim. (Cl. 43—69.)



An animal trap comprising an oblong wire body having a transverse partition dividing it into an entrance compartment and a prison compartment, means permitting an animal to pass from the former to the latter compartment and for preventing its return, said entrance compartment having an open doorway, a bait container extending centrally across the upper part of the entrance compartment and spaced from the bottom of the trap and from said doorway, a door hinged at one of its ends near the bottom of the doorway and having its free end adapted to swing from a position in front of said container downwardly against the bottom of the trap, and a spring yieldingly supporting said door in inclined position with its free end in front of the bait container.

1,681,805. WALL STRUCTURE. EARL F. HAUSERMAN, Cleveland Heights, LEROY D. MOWERY, Cleveland, and JOHN A. BOHNSACK, East Cleveland, Ohio, assignors to The E. F. Hauserman Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 7, 1926. Serial No. 134,110. 18 Claims. (Cl. 189—34.)



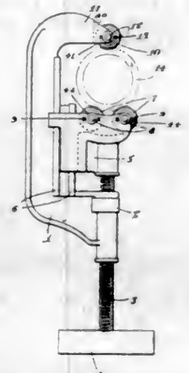
1. In partition construction, the combination of a support member of generally rectangular channel section as a three-sided hollow sheet metal member presenting a longitudinal opening on its fourth side, and a face plate to cover such opening.

1,681,806. VULCANIZATION OF RUBBER. RALPH V. HEUSER, Burrage, Mass., assignor, by mesne assignments, to Albert C. Burrage, jr., Ipswich, Mass. Filed Jan. 27, 1921. Serial No. 440,518. 13 Claims. (Cl. 18—53.)

1. The process of vulcanizing rubber, characterized by heating rubber with vulcanizing material and tritolylguanidin.

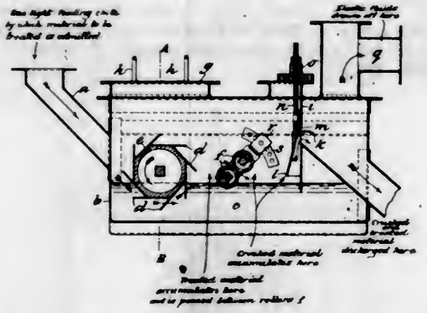
5. The process of treating rubber or similar material which comprises combining with the rubber compound an ortho-tolylguanidine.

1,681,807. PIPE CUTTER AND CUTTING WHEEL THEREFOR. JOSEPH E. KENERSON, Saugus, Mass., assignor to Trimont Manufacturing Company, Roxbury, Mass., a Corporation of Massachusetts. Filed May 11, 1926. Serial No. 108,274. 8 Claims. (Cl. 81—192.)



1. A cutting wheel of the kind described, having a single, sharp, circumferential cutting edge, with a plurality of reinforcing and expanding portions at predetermined spaced intervals relative to the diameter of the cutting wheel.

1,681,808. HEAT TREATMENT OF SUBSTANCES BY MEANS OF MOLTEN METAL. JOHN STANLEY MORGAN, London, England, assignor to Thermal Industrial and Chemical (T. I. C.) Research Company Limited, London, England. Filed Nov. 20, 1922, Serial No. 602,188, and in Great Britain Jan. 4, 1922. 9 Claims. (Cl. 202—8.)

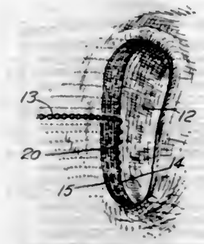


1. In processes of subjecting to heat treatment, by contact with a bath of molten metal, materials which yield by the treatment a solid residue of lower specific gravity than the molten metal, the method of removing the solid residue from the surface of the molten metal in a condition substantially free from metal, which consists in causing the residue to accumulate on the surface of the molten metal beneath an upwardly directed duct and to be entrained in a stream of elastic fluid moving upwardly through the duct.

1,681,809. SWEATER GARMENT. HARRY MOSS, Philadelphia, Pa. Filed Jan. 6, 1927. Serial No. 159,445. 1 Claim. (Cl. 2—90.)

A garment having, in combination, a knitted body portion and a plurality of knitted sleeves connected to said body portion and forming a reinforced rib at the juncture of each of the sleeves and said body portion, a line of reinforcing stitches formed on the inner side of the body

portion near the upper end thereof and extending crosswise with respect thereto from one of the ribs to the other, the stitches at the ends of the said line of reinforcing



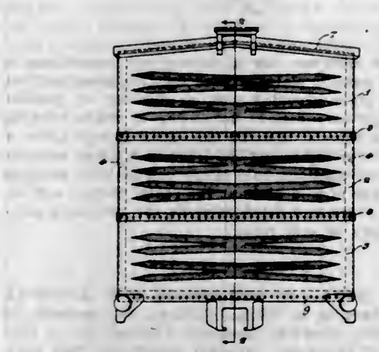
stitches being imbedded into said ribs, and extending in a substantially right angular direction with respect to said crosswise extending stitches.

1,681,810. TYPE-CLEANING KIT. JULIUS A. NELSON, Savannah, Ga. Filed Jan. 28, 1928. Serial No. 250,266. 5 Claims. (Cl. 15—118.)



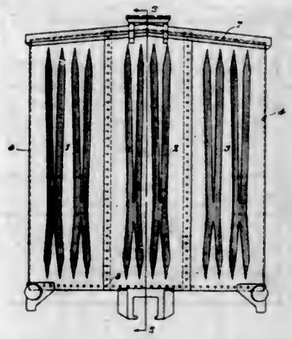
1. A cleaning kit comprising a container having a partition, forming compartments in its ends, a cap for closing each compartment, a rod carried by each cap and a swab carried by each rod.

1,681,811. METAL STRUCTURE FOR RAILWAY CARS. ARTHUR E. SMALL, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 9, 1922. Serial No. 595,634. 43 Claims. (Cl. 105—410.)



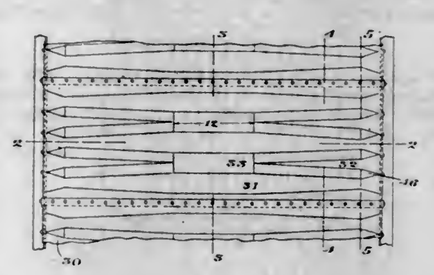
1. A metallic wall panel for railway cars having a reinforcement formed therein, comprising a plurality of stiffening ribs which merge into each other to form a relatively wider stiffening rib, adjacent the center of said reinforcement substantially parallel to the first mentioned ribs.

1,681,812. METAL STRUCTURE FOR RAILWAY CARS. ARTHUR E. SMALL, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed June 7, 1926. Serial No. 114,247. 14 Claims. (Cl. 105—410.)



1. A wall structure for a railway car comprising a metallic plate provided with a plurality of vertical corrugations spaced apart distances substantially equal to their width, said corrugations merging between their ends adjacent the floor of the car into a plurality of fewer corrugations spaced apart distances substantially equal to their width.

1,681,813. ROOF FOR RAILWAY CARS. ARTHUR E. SMALL, Chicago, Ill., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed Sept. 10, 1927. Serial No. 218,733. 6 Claims. (Cl. 108—5.4.)

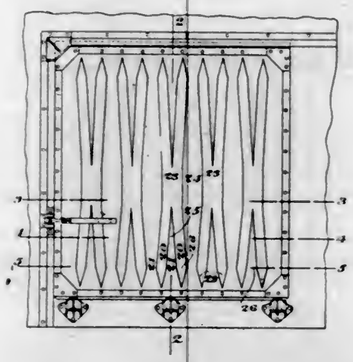


1. A roof for a railway car, comprising one of a plurality of members to form the roof consisting of substantially an arch between the opposite side plates of the car, said sheet provided with a plurality of major corrugations which decrease in width toward their opposite ends, said sheet also provided with a plurality of minor corrugations lying between said major corrugations which increase in width toward their outer ends until the major and minor corrugations terminate into the sheet adjacent the opposite side plates of the car.

1,681,814. SIDE DOOR FOR RAILWAY BOX CARS. ARTHUR E. SMALL, Chicago, Ill., assignor to Railway Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 23, 1926. Serial No. 156,702. 8 Claims. (Cl. 189—46.)

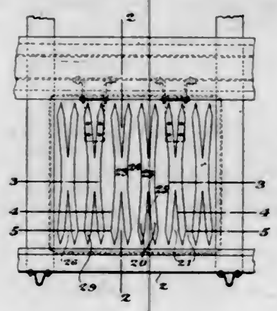
1. A horizontally movable side door for a railway car comprising a metallic plate secured to oppositely disposed

frame members of the door, said plate provided with a series of corrugations with their opposite ends terminating into the plate adjacent said oppositely disposed frame



members, said corrugations merging together between their opposite ends to form a plurality of fewer wider corrugations.

1,681,815. DROP DOOR FOR RAILWAY CARS. ARTHUR E. SMALL, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 23, 1926. Serial No. 156,703. 16 Claims. (Cl. 105—280.)



1. In a railway car having a door opening, a door hinged adjacent one edge thereof and supported at the opposite edge thereof, said door comprising a metallic plate provided with a plurality of corrugations with their opposite ends terminating into the plate adjacent the opposite marginal portions of the door, said corrugations merging together adjacent the middle of the plate to form a lesser number of wider corrugations.

1,681,816. METALLIC STRUCTURE FOR RAILWAY CARS. ARTHUR E. SMALL, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Original application filed Oct. 19, 1922, Serial No. 595,634. Divided and this application filed Sept. 8, 1925. Serial No. 55,207. 33 Claims. (Cl. 105—410.)

1. A metallic plate provided with a plurality of parallel major corrugations whose width is greatest at the center decreasing in width towards the terminal thereof adjacent the edges of said plate, a plurality of minor corrugations lying in a plane between said major corrugations, said minor corrugations merging from the plane of said

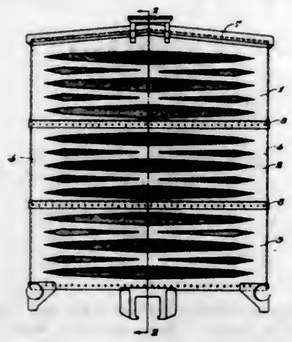
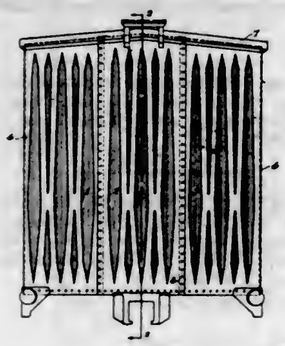


plate adjacent the center thereof and increasing in width and depth towards the terminals adjacent the edges of said plate.

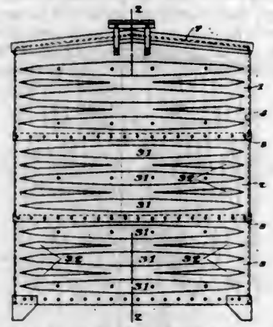
1,681,817. METALLIC STRUCTURE FOR RAILWAY CARS. ARTHUR E. SMALL, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed June 7, 1926. Serial No. 114,246. 24 Claims. (Cl. 105—410.)



1. A wall structure for a railway car comprising a plurality of metallic plates secured together along vertical lines, each plate provided with a plurality of parallel vertical major corrugations decreasing in width towards the terminal thereof adjacent the edges of said plate, a plurality of minor corrugations lying in a plane between said major corrugations, said minor corrugations merging from the plane of said plate at the center thereof and increasing in width and depth towards the terminals adjacent the edges of said plate.

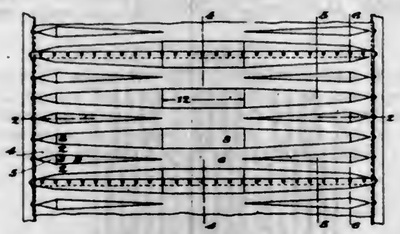
1,681,818. METALLIC STRUCTURE FOR RAILWAY CARS. ARTHUR E. SMALL, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Original application filed Sept. 8, 1925, Serial No. 55,207, which is a division of application filed Oct. 19, 1922, Serial No. 595,634. Divided and this application filed Jan. 3, 1927. Serial No. 158,596. 41 Claims. (Cl. 105—410.)

1. A metallic plate having a plurality of major and minor corrugations terminating within the plate, said major corrugations decreasing in width and height from the middle toward the ends of the plate, said minor corrugations increasing in width from adjacent the middle toward the ends of the plate, the cross sectional areas



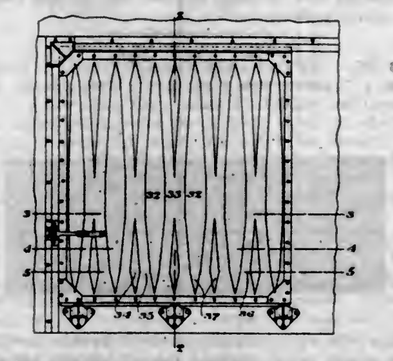
of said corrugated plate being substantially equal anywhere between the planes where said corrugations begin to terminate into the plane of the plate.

1,681,819. RAILWAY-CAR ROOF. ARTHUR E. SMALL, Chicago, Ill., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed Sept. 10, 1927. Serial No. 218,732. 10 Claims. (Cl. 108—5.4.)



1. A roof sheet for a railway car, comprising one of a plurality of members to form the roof, consisting of substantially an arch between the opposite side plates of the car, said sheet provided with a plurality of corrugations adjacent said side plates, said corrugations merging together adjacent the middle of the sheet to form a plurality of fewer corrugations.

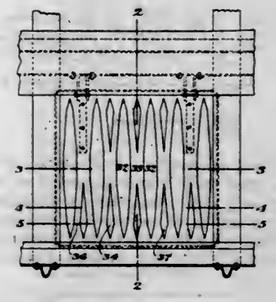
1,681,820. SIDE DOOR FOR RAILWAY CARS. ARTHUR E. SMALL, Chicago, Ill., assignor to Railway Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 23, 1926. Serial No. 156,704. 10 Claims. (Cl. 189—46.)



1. A horizontally movable side door for a railway car comprising a metallic plate secured to oppositely disposed

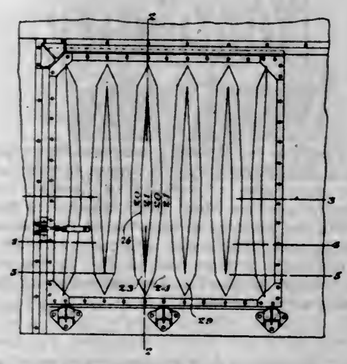
frame members of the door, said plate provided with a plurality of major corrugations which decrease in width toward their ends, each plate also provided with a plurality of minor corrugations lying between said major corrugations which increase in width toward the edges of the plate until the major and minor corrugations terminate into the plate adjacent said oppositely disposed frame members and in line with each other.

1,681,821. CORRUGATED DROP DOOR FOR RAILWAY CARS. ARTHUR E. SMALL, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 23, 1926. Serial No. 156,705. 10 Claims. (Cl. 105—280.)



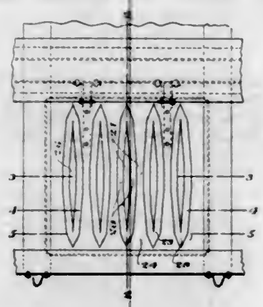
1. In a railway car having a door opening, a door hinged adjacent one edge thereof and supported at the opposite edge thereof, said door comprising a metallic plate provided with a plurality of major corrugations which decrease in width toward their ends, each plate also provided with a plurality of minor corrugations lying between said major corrugations which increase in width toward the edges of the plate until the major and minor corrugations terminate into the plate adjacent the opposite marginal portions of the door and in line with each other.

1,681,822. RAILWAY-CAR SIDE DOOR. ARTHUR E. SMALL, Chicago, Ill., assignor to Railway Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 23, 1926. Serial No. 156,706. 5 Claims. (Cl. 189—46.)



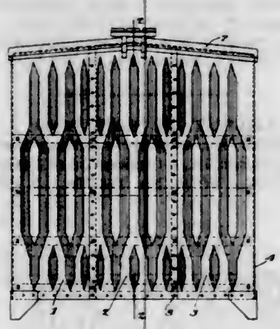
1. A horizontally movable side door for a railway car comprising a metallic plate secured to oppositely disposed frame members of the door, said plate provided with a plurality of corrugations merging into each other and into the plate adjacent said oppositely disposed frame members to form a plurality of fewer corrugations.

1,681,823. RAILWAY-CAR DROP DOOR. ARTHUR E. SMALL, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 23, 1926. Serial No. 156,707. 8 Claims. (Cl. 105—280.)



1. In a railway car having a door opening, a door hinged adjacent one edge thereof and supported at the opposite edge thereof, said door comprising a metallic plate provided with a plurality of corrugations merging into each other and terminating into the plate adjacent the opposite marginal portions of the door to form a lesser number of corrugations.

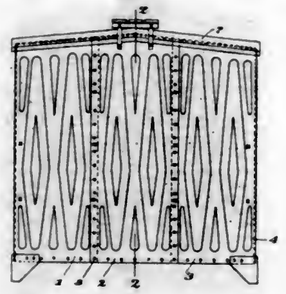
1,681,824. CORRUGATED METALLIC PLATE. ARTHUR E. SMALL, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 2, 1926. Serial No. 152,251. 12 Claims. (Cl. 105—410.)



1. In a railway car structure, a metallic plate having a plurality of parallel embossments formed therein, each embossment comprising a plurality of parallel, constant width, central portions which merge together to form constant width end portions at each end of the embossment, said metallic plate also formed with constant width corrugations positioned between and parallel to the said end portions and terminating into the plate adjacent the merger of the central portions.

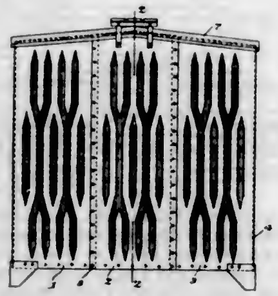
1,681,825. EMBOSSED METALLIC PLATE. ARTHUR E. SMALL, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 2, 1926. Serial No. 152,252. 11 Claims. (Cl. 105—410.)

1. In a railway car structure, a metallic plate having a plurality of varying width embossments formed therein, each embossment comprising a plurality of constant width central portions which merge together adjacent the ends of the embossment, said metallic plate also formed



with varying width corrugations positioned between the ends of the embossments and terminating into the plate in line with the embossments.

1,681,826. EMBOSSED METALLIC PLATE FOR RAILWAY CARS. ARTHUR E. SMALL, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 2, 1926. Serial No. 152,253. 12 Claims. (Cl. 105—410.)



1. In a railway car structure, a metallic plate having a plurality of parallel embossments formed therein, each embossment comprising a constant width central portion which divides to form constant width end portions at each end of the embossment, said metallic plate also formed with constant width corrugations, said corrugations positioned between and parallel to said central portions and terminating into the plate adjacent the dividing place of said central portion.

1,684,827. ARTIFICIALLY-HEMSTITCHED FABRIC. FELIX TAUSEND, New York, N. Y. Filed Apr. 22, 1926. Serial No. 103,957. 1 Claim. (Cl. 139—416.)



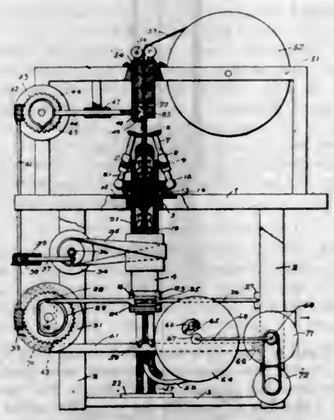
As a new article of manufacture a towel or the like of light colored fabric having a line of artificial hemstitching paralleling one of its edges and arranged relatively close to said edge, the line of artificial hemstitching comprising a series of black threads arranged side by side and interwoven with a plurality of series of juxtaposed light colored threads of the fabric proper so that groops of light colored threads extend at regularly spaced intervals across the series of black thread producing in the fabric a row of alternating black and light areas simulating the openings of a hemstitched fabric.

1,681,828. BOTTLE CAP. WILLIAM G. J. THOMPSON, Clinton, Mass. Filed Feb. 19, 1926. Serial No. 89,395. 1 Claim. (Cl. 215—46.)



The combination with a bottle cap having a sealing cork fitted therein, of a fabric tape folded back upon itself with the terminals placed one upon the other and secured between the cap and sealing cork, said terminals extending diametrically across the cap and terminating short of one side thereof, the major portion of the tape extending beyond the edges of said cap defining a flexible pulling loop, said loop constituting a finger grip for permitting the operator to engage the loop between fingers whereby to facilitate the removal of the cap from the neck of a bottle.

1,681,829. METHOD AND APPARATUS FOR MAKING ARTICLES HAVING RELATIVELY-RIGID CONFINING MEMBERS AND ELASTIC CORES. WILLIAM J. WESSELER, East Cleveland, Ohio. Filed Oct. 7, 1927. Serial No. 224,746. 20 Claims. (Cl. 29—88.2.)



17. In an apparatus of the character described, the combination of means for supporting a confining member, and means for stretching an elastic member and engaging the same within said confining member for maintaining said elastic member in a longitudinally elongated and transversely narrowed condition.

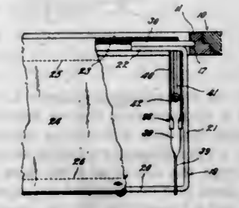
1,681,830. FASTENING MEANS FOR METAL ROOF DECKING. HERBERT E. WHITE, Youngstown, Ohio, assignor to The Truscon Steel Company, Youngstown, Ohio, a Corporation of Michigan. Filed May 25, 1927. Serial No. 194,175. 7 Claims. (Cl. 189—35.)

1. A fastening device for metal roof deck plates having depending abutting flanged rib elements at their undersides, comprising a body conforming to the shape of and telescoping over the rib elements of adjacent plates, said



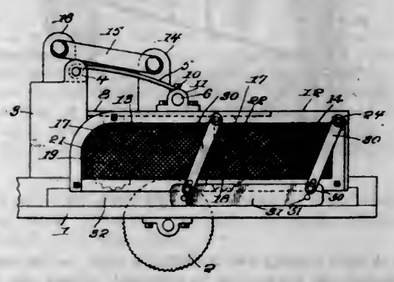
body having the intermediate portion thereof pressed inwardly to provide an abutment for engaging the undersides of the ribs.

1,681,831. AWNING FOR VEHICLES. HAROLD E. WILLIAMS, Carthage, Mo. Filed Jan. 4, 1927. Serial No. 158,904. 3 Claims. (Cl. 156—15.)



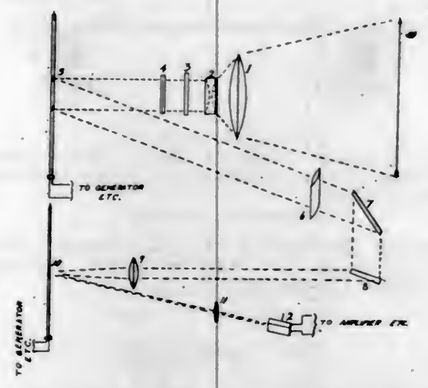
1. In a vehicle awning of the class described, a pair of aligned substantially U-shaped supporting members, each having a portion adapted to enter the glass run of a vehicle door; means connecting said members for adjusting them toward and from one another; a frame and a cover therefor, slidably and pivotally connected to one pair of legs of said members; and longitudinally extensible braces pivotally connected to said frame, and slidably and pivotally connected to the other legs of said members.

1,681,832. SAFETY GUARD FOR RIPSAWS. JOSEPH H. WULF, Tell City, Ind. Filed Apr. 20, 1925, Serial No. 24,542. Renewed June 29, 1928. 1 Claim. (Cl. 143—159.)



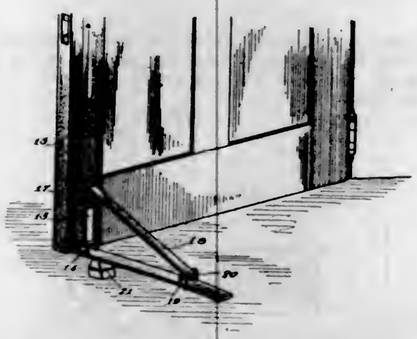
The combination with rotary saws and a bed therefor, of a standard fixed on the bed at one side of the saws, a substantially rectangular frame member opposite the standard, a pivoted link connection between the frame member and the standard, depending elements on the frame member, shafts journaled therethrough, and saw work engaging rollers fixed on the ends of the shafts, an upper shaft fixed on the frame and extending over the bed above the saws, a spring fixed on this shaft and fixed on the standard and urging the shaft and frame in the direction of the saw bed, and a saw guard removably fixed on the outer end of the last mentioned shaft.

1,681,833. ELECTRIC TELESCOPY. JAMES GILLESPIE ALLEN, Chicago, Ill. Filed Feb. 22, 1923. Serial No. 620,555. 10 Claims. (Cl. 178—6.)



1. In the art of transmitting pictures and the like the combination of a transmission station including means to produce electrical impulses, a receiving station including a source of light, a light intensity grading screen thru which the light rays from the source of light pass, a screen, and an integrating dead beat oscillograph actuated by electrical impulses from said transmitting station operably positioned between said grading screen and the second mentioned screen for receiving light rays from the former and projecting them on the way to the latter.

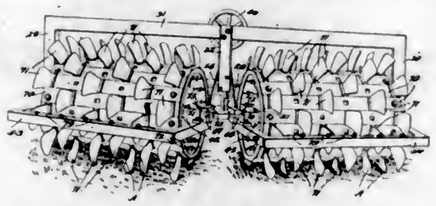
1,681,834. DOOR-HOLDING TOOL. ALBERT A. ARENDS, Redwood City, Calif. Filed May 14, 1926. Serial No. 109,132. 3 Claims. (Cl. 292—339.)



1. A door holding tool including a main bar having one up-turned end adapted to be extended beneath the lower edge of a door and having a floor engaging fulcrum block adjacent to said door engaging end, and a pair of brace bars extending upwardly from said main bar at spaced points in the length of the latter and having relatively engaging free ends for the purpose set forth.

1,681,835. COMBINED GROUNDWORKING AND PULVERIZING MACHINE. LEE BIRD, Rock Springs, Ga. Filed June 21, 1927. Serial No. 200,490. 8 Claims. (Cl. 55—24.)

1. In an implement having a rolling drum and means for holding the drum in angled position relative to the line of draft, ground working devices secured to the periphery of the drum and having sharp forward and outer edges to effect a cutting action when entering the ground, the working surface of the ground working devices extending substantially radially where they adjoin the surface of the drum and being curved at their outer ends toward the forward end of the axis of the drum.



7. In an implement having rolling drums and means for simultaneously holding the drums in opposed angled positions relative to the line of draft, ground working devices secured to the periphery of each drum, the working faces of the ground working devices having a substantial width and radial height, the outer ends of the ground working devices curving toward the forward end of the axis of the respective drums to which attached.

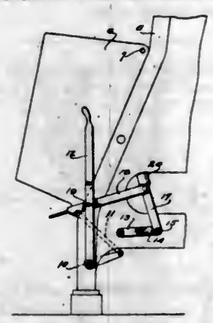
1,681,836. SHAVING BRUSH. GEORGE BOKA, San Diego, Calif. Filed Mar. 25, 1927, Serial No. 178,346. Renewed May 26, 1928. 2 Claims. (Cl. 15—135.)



1. A brush of the class described comprising a head, an annular row of bristles carried thereby, said head having a centrally arranged passage therethrough, the inner end of which is threaded to receive the threaded outlet end of a tube of paste, a tubular handle fitting over the tube and head, the open end of which has a reinforcing band around the same, said tubular handle and band being split to permit the head and tube to be placed therein and means for fastening the ends of the reinforced part together.

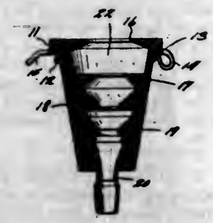
1,681,837. COTTON-GIN-BREAST-ACTUATING DEVICE. THOMAS M. BRUCE, Calumet, Okla. Filed Dec. 13, 1927. Serial No. 239,756. 7 Claims. (Cl. 19—48.)

1. In a gin attachment, an actuating lever to be pivotally supported on a gin frame and have operative connection with the gin breast, a pair of normally divergent members, one of which being pivotally supported and the other being pivotally attached to the actuating lever whereby such members will be caused to assume a substantially horizontal position upon actuation of the actuating lever in one direction, and a stop carried by one of such divergent members and engageable with the other when the divergent



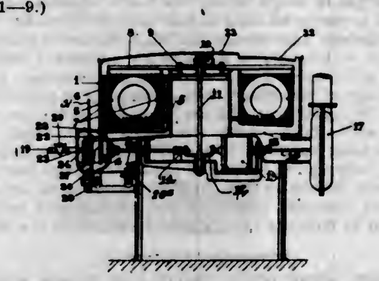
members assume such horizontal position and thereby render the pivot joint between them rigid to support the gin breast in elevated position.

1,681,838. FAUCET CONNECTION. JOHN EDWARD CONKLIN, Brooklyn, N. Y. Filed Apr. 19, 1927. Serial No. 185,004. 3 Claims. (Cl. 137—111.)



2. A faucet connection of the character described comprising a body of soft rubber having a hollow interior, opening through the body at its upper and lower ends, the body being readily flexible throughout its entire extent the upper end of the body being formed with an inwardly projecting flexible annular faucet engaging flange and the interior of the flange defining the upper end of a suction chamber, the interior of the body being formed with a plurality of inwardly projecting annular flexible flanges successively decreasing in interior diameter from the top toward the bottom of the body.

1,681,839. DISH WASHING, STERILIZING, AND DRYING MACHINE. JULES LOUIS BRETON, Bellevue, France. Original application filed Nov. 8, 1923, Serial No. 673,542, and in France May 7, 1923. Divided and this application filed June 3, 1925. Serial No. 34,664. 1 Claim. (Cl. 141—9.)



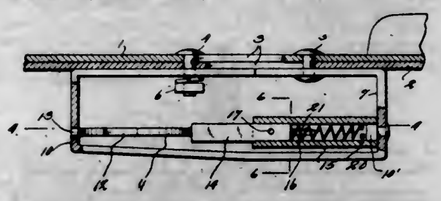
In a machine for washing, sterilizing and drying dishes, the combination of a circular washing trough the walls of which are provided with apertures for the introduction of the soiled dishes and for the removal of the clean dishes, a dish holding basket also of circular shape in the said washing trough, means for rotating slowly the said dish holding basket, means for projecting upon the dishes jets of washing water and jets of rinsing water, pumps for supplying the said means with washing and rinsing water, tanks disposed in cascade below the washing trough and adapted to receive the water projected by each pump, the first pump being adapted to withdraw the water of the first tank, said first tank being adapted to receive the water projected by the said first pump, the second pump being adapted to withdraw the water of the second tank, said second tank being adapted to receive the water projected by the said second pump, a pipe for the continuous supply of clear and boiling water and a series of overflow devices through which the water in excess flows successively from one tank into the next and finally into the sewer, the direction of the displacement of the dishes being contrary to the direction of the flow of the water, means for withdrawing the air and the vapors out of the washing trough and for producing an air current through the apertures through which the said dishes are introduced into and removed from the said trough.

1,681,840. TOWEL DISPENSING AND STORAGE CABINET. ALVIN E. CARLSON, Nevis, Minn. Filed May 11, 1926. Serial No. 108,369. 1 Claim. (Cl. 312—60.)



A cabinet of the class described including a door at the front thereof, a holder for a stack of towels to be dispensed mounted on the back of the door, and including a bottom having a slot therein through which the towels are drawn, said door having an opening therein exposing the slotted bottom of the towel holder, and a flap hinged to the bottom of the towel holder and spring pressed against the door, said flap being manually depressible to permit the insertion of soiled towels into the bottom of the cabinet.

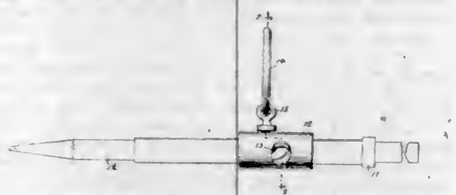
1,681,841. ROLLER SKATE. JAMES COHEN, Northampton, Mass. Filed Oct. 27, 1927. Serial No. 229,205. 7 Claims. (Cl. 208—173.)



1. A skate comprising a frame having overlapping plates provided with bolt and slot connecting means, a frame having an opening adapted to receive the bolt and adapted to be positioned at the under side of the nether plate, said

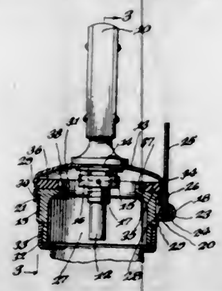
frame being provided at one end with a recess and at its opposite end with a stud and a key having a sleeve telescopically mounted thereon, said key having a lug adapted to enter said recess and said sleeve adapted to engage said stud.

1,681,842. DEVICE FOR USE IN WRITING. DANIEL COLLEN, Tilston, Manitoba, Canada. Filed June 9, 1928. Serial No. 284,090. 3 Claims. (Cl. 120—108.)



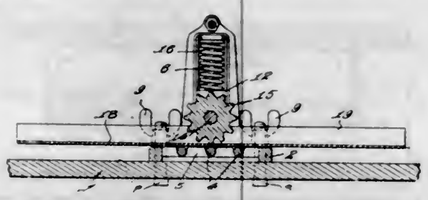
1. A device for use in writing to insure proper position for correct writing, said device including an elongated and protective tube adapted to be sleeved on a writing implement, a slide fitting said tube and positioned along the tube, means to fasten the slide in adjusted position along the tube, and a ring at a side of the tube and swiveled to said tube.

1,681,843. AUTOMOBILE RADIATOR CAP. HERBERT A. DENT, Chicago, Ill.; Helene Dent administratrix of said Herbert A. Dent, deceased. Filed Nov. 20, 1925. Serial No. 70,361. 2 Claims. (Cl. 220—24.)



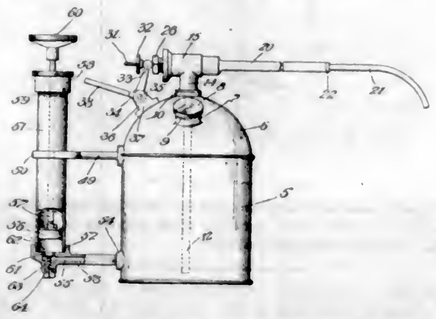
1. The combination with a radiator nipple, of a cap for the nipple, a finger piece having one end portion providing a knuckle and having inwardly of the knuckle laterally extending ears, said finger piece extending upwardly from one side of said cap, means for connecting said ears to said side of the cap, an adapter adapted for connection with the nipple, a member carried by the adapter and having its opposite end portions extending laterally from the adapter, said knuckle being disposed between said opposite end portions, and a pin member connecting said opposite end portions to said knuckle.

1,681,844. DOUGH KNEADER. LOUIS DE VITO, Cleveland, Ohio. Filed Sept. 21, 1927. Serial No. 221,067. 5 Claims. (Cl. 107—32.)



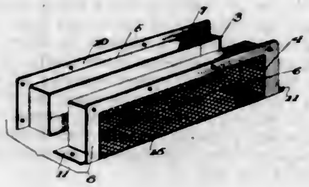
1. In a dough kneading machine of the type described, a pan having side flanges, a base frame on which the pan rests, said frame having bearing notches and rollers arranged in said notches projecting above the top of the frame and providing a support for the pan, a spring influenced roller carried by the base arranged in the pan, and a handle for revolving the roller.

1,681,845. PRESSURE OIL CAN. FRED M. DILLEY and CLAY F. HALLBERG, Oelwein, Iowa. Filed Oct. 10, 1925. Serial No. 61,768. 4 Claims. (Cl. 221—52.)



1. In a device of the character described, a spout, a valve seat in the spout, a valve head, a link extending rearwardly from the valve head, a valve rod, means acting on the rod to normally seat the valve head, a link extending forwardly from the valve rod and interlocked with the valve head link, a washer on the valve head link adapted to abut against the valve stem link, and a compression spring interposed between the valve head and the washer.

1,681,846. DRAINAGE DEVICE FOR WINDOW SCREENS. CHRISTIAN C. ENGELBART, Rochester, Minn. Filed Nov. 15, 1926. Serial No. 148,516. 2 Claims. (Cl. 156—14.)



1. A drainage device for use with window screens having a frame including a lower bar provided with a notch opening through the lower edge thereof and comprising an outer and inner section, each section having a tubular body, the tubular bodies being telescoped in assembly, said tubular bodies snugly fitting the notch, attaching flanges formed at the outer sides of said tubular bodies and with the upper side and opposite end edges thereof and adapted to coact with screws to permanently secure the drainage device to the screen frame, outturned flanges formed at the lower sides of the opposite ends of the outer of said tubular bodies for engagement with the lower edge of the lower bar of the screen frame and to either side of said notch, said flanges being apertured to receive securing screws, and a screen covering the opening of the outer tubular body, the telescopic portion of the outer of said sections engaging over the telescopic portion of the inner of said sections, whereby to facilitate the drainage outwardly of the device.

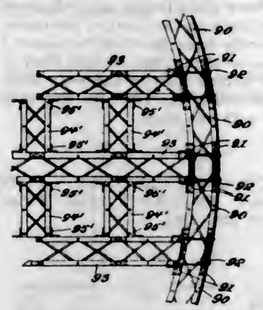
1,681,847. FUSE PLUG. WILLIAM H. FABREY, Schenectady, N. Y., assignor to Weber Electric Company, Schenectady, N. Y., a Corporation of New York. Filed Nov. 4, 1927. Serial No. 231,069. 8 Claims. (Cl. 200—130.)

1. In an electric fuse plug, a core element including a substantially cylindrical boss portion, an interiorly threaded contact shell surrounding said boss portion, said boss portion being unthreaded and having a lateral recess, a filler



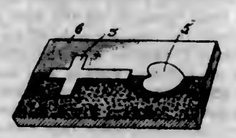
piece seated in said recess and having a portion projecting therefrom into screw-engagement with the threads of said shell and a fuse element in said core element.

1,681,848. DIRIGIBLE AIRSHIP. RALPH P. FOX, Harrisburg, Pa. Filed Mar. 6, 1926. Serial No. 92,827. 10 Claims. (Cl. 244—3.)



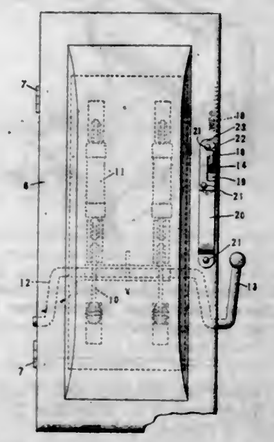
1. In a device of the class described, a plurality of spaced circular transverse units each including outer segmental structural elements, transverse girders extending across said units, brackets connected with the transverse girders, and connected with the segmental elements, columns extending between the transverse girders, and longitudinal girders connected by the brackets with the transverse girders.

1,681,849. METHOD OF PREPARING RUST-RESISTING IRON AND STEEL PRINTING PLATES. RUDOLF FRITSCHE, New York, N. Y. Filed Apr. 7, 1927. Serial No. 181,774. 6 Claims. (Cl. 41—41.5.)



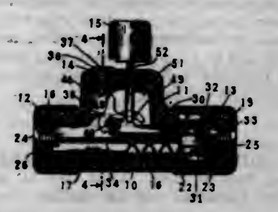
1. A lithographic plate, comprising a chrome steel body formed with graining on one surface, with said grained surface having a porous formation.

1,681,850. LATCH FOR ELECTRIC-SWITCH BOXES. BENJAMIN E. GETCHELL, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed June 14, 1926. Serial No. 115,811. 5 Claims. (Cl. 292—128.)



1. A latch construction for an electric switch box, said box having a cover hinged to said box and said cover having a latch opening, a handle member secured to said cover adjacent said opening and having a latch engaging extension, a latch member pivoted in said box, said latch having a shoulder for engaging with said handle extension when the cover is closed, and a counterweight extension and a spring for normally moving said latch.

1,681,851. RESETTABLE RELAY. BENJAMIN E. GETCHELL, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed Dec. 3, 1927. Serial No. 237,437. 14 Claims. (Cl. 200—122.)

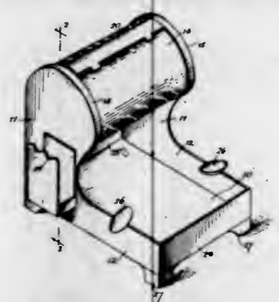


7. In a relay, a housing, a heater strip mounted therein, a bendable bimetallic arm mounted adjacent said heater strip, a spring-pressed switch member pivotally carried by and movable with said arm, a contact for said switch member supported in said housing and a push button supported in said housing and coacting with said switch member for resetting said member.

1,681,852. SMOKER'S RECEPTACLE. WILLIAM I. GOSCENER, Jersey City, N. J. Filed Oct. 26, 1927. Serial No. 228,951. 6 Claims. (Cl. 312—75.)

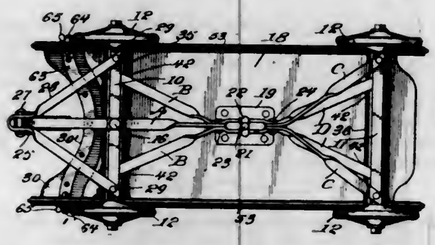
1. A device for containing and dispensing cigars, cigarettes, or the like, including a base, a pair of laterally spaced upstanding resilient bracket arms, circular flanges on the confronting faces of the free upper ends of the bracket arms, and a cylindrical container having a closed

end and an open end positioned between the bracket arms and mounted for rotatory movement in the circular flanges, said container having a longitudinally disposed slot extend-



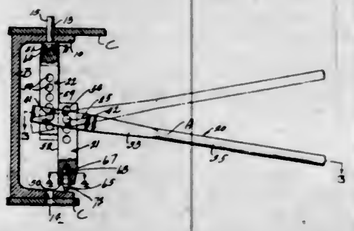
ing from the open end to the closed end to allow for dispensing of the contents when the container is turned to dispose the slot downwardly.

1,681,853. COMBINED WAGON AND SLED. WILLIAM S. HANCE, Washington, D. C. Filed Mar. 15, 1927. Serial No. 175,591. 3 Claims. (Cl. 280—8.)



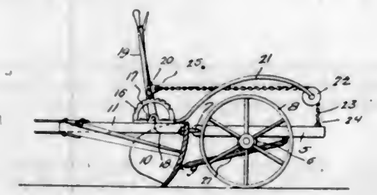
1. In a device of the class described, a plurality of axles and wheels carried thereby, a plurality of longitudinal elements extending in parallel relation, a substantially horizontal member mounted between the longitudinal elements, the latter maintaining their position with reference to the ground, means for securing the horizontal member in an upper position and in a lower position with reference to the longitudinal elements, and means for connecting the horizontal member with the axles.

1,681,854. ADJUSTABLE-SHACKLE DOLLY. WILLIAM R. HODGES, Eupora, Miss. Filed May 21, 1925. Serial No. 31,888. 1 Claim. (Cl. 78—53.5.)



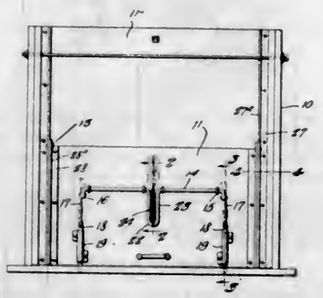
In a shackle dolly of the class described the combination of a handle frame, a pair of shanks, means pivotally connecting the shanks to the frame, each of the shanks at the free end thereof having a rivet head receiving socket therein, one of said shanks axially therealong and inwardly in communicating relation with the rivet head receiving socket having a reduced socket, a work engaging pin having a pointed end, the work engaging pin being adapted to extend into the last mentioned reduced socket, and means for connecting the pin in said reduced socket in detachable relation with the pointed end extending beyond the free end of the respective shank.

1,681,855. ROAD SCRAPER. WALTER HULSE, Flournoy, Calif. Filed Aug. 3, 1927. Serial No. 210,352. 2 Claims. (Cl. 37—169.)



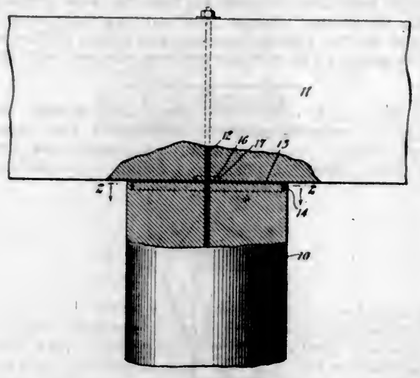
1. In combination, a wheeled frame, a scraper blade transversely of the front of the frame, means for rockably mounting the scraper blade on the front of the frame, an arm extending rearwardly from the blade, a sheave journaled on the rear extremity of the arm, a chain fixed to the rear of the frame and trained over the sheave, a lever, and means for rockably mounting the lever on the blade, the chain being engaged with the lever.

1,681,856. END-GATE FASTENER. CLARENCE HUNT, Churdan, Iowa. Filed Feb. 3, 1926. Serial No. 85,768. 1 Claim. (Cl. 292—36.)



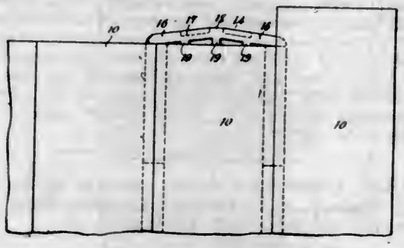
A latch mechanism for end gates comprising a pair of spaced tubular guides secured to said gate, a pair of latch bolts slidably mounted in said guides, stationary means for engagement by said bolts when the latter are in latching position, a rock shaft mounted on the gate and arranged transversely thereof, the opposed ends of said shaft being offset, links pivotally connected with the offset extremities of the shaft and the adjacent ends of said bolts, the intermediate portion of said shaft being extended to provide a handle including spaced parallel limbs, whereby said shaft may be rocked to move said bolts into active or inactive positions, a coil spring arranged between the limbs of said handle and substantially coextensive in length therewith, one end of the spring being secured to the adjacent end of the handle, and the other end secured to the gate, with said spring arranged at an angle with relation to said handle, and adapted to maintain said bolts in either latched or unlatched position.

1,681,857. PROTECTIVE CAP FOR WOOD PILING. JOHN JACOBSON, Galveston, Tex. Filed Nov. 18, 1927. Serial No. 234,224. 5 Claims. (Cl. 61—48.)



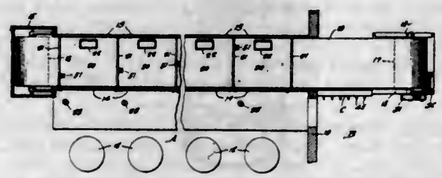
2. As a new article of manufacture, a protective cap for wooden pile heads including a flat metal plate and a sharp marginal flange turned downwardly from the plate and adapted to be driven into the pile, said plate having an opening therein adapted to accommodate a drift bolt for securing a superimposed structure.

1,681,858. KEY ALIGNER. JOHN JACOBSON, Galveston, Tex. Filed Nov. 18, 1927. Serial No. 234,225. 5 Claims. (Cl. 61—58.)



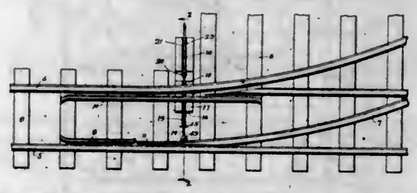
1. A device for aligning concrete sheet piling or the like having vertical longitudinal grooves in its abutment faces, the device including a pair of spaced arms straddling a piling, lying in the grooves thereof, and presenting projecting key portions to fit the grooves of adjacent pilings, and a yoke member connecting the upper ends of the arms.

1,681,859. CONVEYER. WALTER E. JONES, Lynchburg, Va. Filed Oct. 11, 1926. Serial No. 140,947. 8 Claims. (Cl. 186—1.)



1. In combination, an endless conveyer divided into sections, a plurality of compartments through which said sections are adapted to pass, means including an electric motor for moving the conveyer in either direction through the compartments, means for automatically stopping the conveyer at predetermined positions when moving in one direction, and means for automatically stopping the conveyer at a predetermined position upon movement of the conveyer in an opposite direction.

1,681,860. RAILROAD SWITCH. EUSTACHIUS JOSEPH KING, Philadelphia, Pa. Filed Apr. 25, 1927. Serial No. 186,541. 3 Claims. (Cl. 246—318.)



1. In combination with a main track comprising a pair of spaced substantially straight rails and a side track comprising a pair of spaced curved rails extending substantially tangent to the rails of said main track, one of said side track curved rails being formed continuous with the corresponding straight rail of the main track, the portion of said rail of said main track adjacent the curve being beveled and spaced from said curve to permit the passage of the flanges of vehicle wheels moving around said curve, the second rail of said main track being substantially straight and unbroken throughout and the second rail of said side track terminating in a spring switch tongue adapted to engage said unbroken rail of the main track; a plate extending transversely of and located under said tracks, a flange on said plate, a rod connected at one end to said spring tongue and extending through an opening in said flange, a collar secured to said rod between said spring tongue and said flange, a spring coiled around said rod between said collar and said flange for moving and resiliently maintaining said spring tongue in contact with said unbroken straight rail of the main track, an arm pivoted to the opposite end of said rod, an undercut lug on said arm adapted to engage a correspondingly undercut shoulder on said plate, for positively holding the point of said opening switch tongue away from the said unbroken straight rail of the main track when the flange of a wheel of a vehicle moving along the main track in the direction in which said switch tongue is pointing, passes between said tongue and the adjacent unbroken straight rail of the main track for permitting subsequent passage of vehicles in both directions along said main track.

1,681,861. PROCESS OF A MANUFACTURE OF DIOXAN. ANGELO KNORR, Berlin, and GERHARD STEIMMIG, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Aug. 6, 1926, Serial No. 127,706, and in Germany Dec. 23, 1924. 3 Claims. (Cl. 260—54.)

1. A process of a manufacture of dioxan in a continuous operation which consists in heating in the presence of a catalyst used in the manufacture of ethylether compounds of the general formula:

$$HO{\cdot}CH_2CH_2{\cdot}OX,$$

wherein X represents a univalent radical of the group

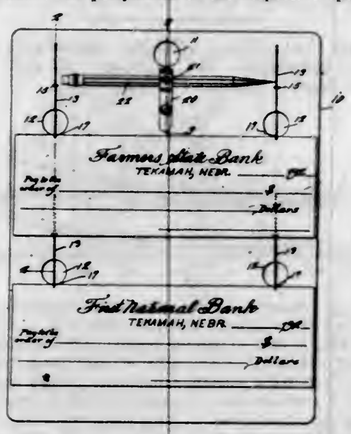
$$-H,\ -CH_2{\cdot}CH_2OH,\ \text{and}\ -CH_2{\cdot}CH_2O$$

alkyl and in adding to the boiling mixture the starting material in the same quantity as dioxan distills off.

1,681,862. CHECK-BOARD AND PENCIL HOLDER. ROBERT W. KOHLER, Tekamah, Nebr. Filed June 13, 1927. Serial No. 198,531. 2 Claims. (Cl. 281—44.)

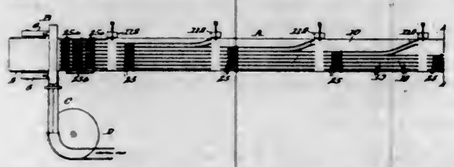
1. A check holder comprising a plate provided with spaced openings, grooves aligned upon the plate being inclined toward the adjacent edges of and having communication with each of said openings, spring fingers car-

ried within the grooves and extended within the respective openings, upstanding offset portions upon the fingers being extended above the peripheries of the respective openings,



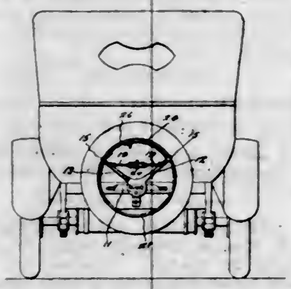
and said fingers being successively offset from the upstanding offset portions and terminating in pointed end portions adapted for biting engagement with the adjacent portions of checks to retain the same in position for use.

1,681,863. CONVEYER MECHANISM FOR MATCH MACHINES. HARRY I. LAHR and ORLO ELMER SWARTZ, Wadsworth, Ohio, assignors to The Ohio Match Company, Wadsworth, Ohio, a Corporation of Ohio. Filed Nov. 8, 1924. Serial No. 748,758. 19 Claims. (198—30.)



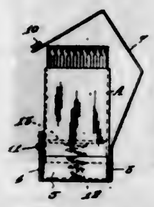
1. A conveyer mechanism for match machines, including a traveling conveyer arranged to receive the product of a plurality of machines, means for depositing the product of said machines upon said conveyer, means associated with said conveyer for arranging the thus deposited product laterally and longitudinally thereof during its travel with the conveyer, and means for discharging the product from said conveyer.

1,681,864. TIRE-CARRYING RIM SUPPORT. ARTHUR D. LONG, El Paso, Tex. Filed May 3, 1927. Serial No. 188,531. 1 Claim. (Cl. 224—29.)



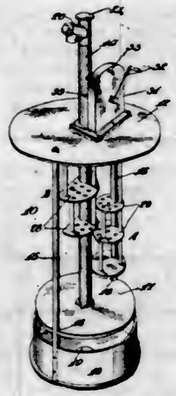
In combination, a split tire carrying rim, supporting means therefor comprising a stationary plate, a rigid arm projecting from said plate, a second arm mounted for pivotal movement on said plate, said arms being arranged in diverging relation and designed to engage the rim at spaced points, a curved extension carried by the rigid arm and arranged to engage the said rim, said extension having an opening adapted to receive the valve stem of the tire for the purpose specified, and means for operating the movable arm to either contract or expand said rim.

1,681,865. MATCH-BOX HOLDER. CARL MARCH, Chicago, Ill. Original application filed Sept. 8, 1926, Serial No. 134,316. Divided and this application filed Mar. 4, 1927. Serial No. 172,862. 1 Claim. (Cl. 206—31.)



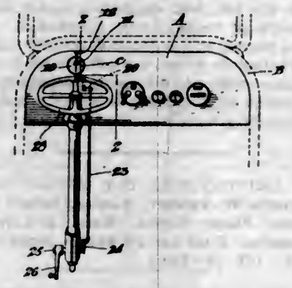
A match box holder of the character described comprising a body including a bottom, end walls of a different height secured to said bottom and being provided with openings adjacent the upper edges thereof, front and rear walls of uniform size and being arranged in spaced relation from the end walls, a substantially conical shape coil spring having one end convolution secured to the bottom, a follower secured to the uppermost and largest convolution of said spring, and being adapted to engage the carrier of a match box disposed in said body, flexible means secured to said end walls and underlying said bottom, threads passing through said openings for securing said covering to said end walls, said flexible strip being arranged in substantially U-shaped formation from its connection with one end wall and means for securing the ends of said flexible strip together about the top of the carrier for retaining the latter in closed position against the tension of the spring.

1,681,866. DISPENSING PUMP. FRANCIS P. MCCAULEY, Westbury, N. Y. Filed Oct. 14, 1927. Serial No. 226,118. 10 Claims. (Cl. 225—35.)



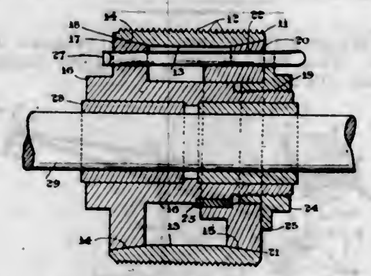
1. In a dispensing pump, a cylinder, a reciprocable plunger movable into said cylinder and having a tubular plunger rod, reciprocable mixing elements, and means for actuating said mixing elements in opposite directions with respect to each other and for simultaneously imparting reciprocation to said plunger.

1,681,867. DIRECTION INDICATOR. CORA MCGANNON, Brockville, Ontario, Canada. Filed Aug. 22, 1927. Serial No. 214,735. 3 Claims. (Cl. 116—31.)



1. A front wheel angle indicator for automobiles and the like comprising a dial in the instrument board provided with an indicator, a spindle rotatably mounted in said board and rigidly connected to the dial, a pinion wheel fixedly mounted on said spindle, an arcuate rack member formed with an arm pivotally mounted on the instrument board and designated to progressively engage with said pinion wheel, a pivotally mounted bell crank lever, link connected to the rack member, a rod connected to said lever at one end and operatively connected to the steering column at the other end whereby movement of the front wheels will effect a corresponding movement of the indicator dial to disclose the angle and direction of the front wheels.

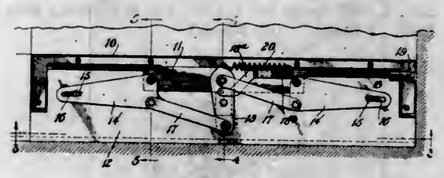
1,681,868. BURR FOR GRINDSTONES. WILLIAM B. MCLEAN, Montreal, Quebec, Canada. Filed Jan. 17, 1927. Serial No. 161,657. 3 Claims. (Cl. 125—37.)



1. In a shell burr, a cylindrical shell having stone cutting teeth formed in its outer face, the bore of the shell having tapered portions at each end, a support for said burrs, extending through the bore of same, a flange formed integral with said support and provided with a tapered edge adapted to fit into one end of the shell, a flanged collar mounted on the support, the flange of the collar being tapered to fit into the other tapered end of the bore and a nut mounted on a threaded portion of the support to hold the flanges in contact with the bore, said nut having a flange provided with peripheral slots and a pin passing through one of said slots and through aligned openings formed in the flanges of the support and collar.

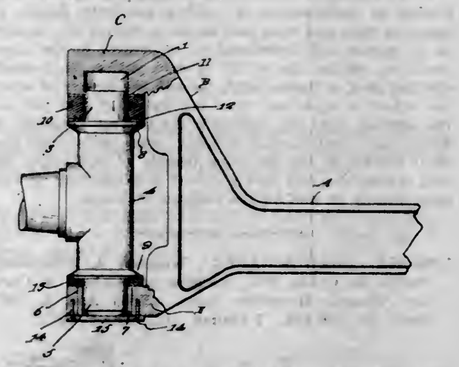
1,681,869. WEATHER-STRIP ATTACHMENT. HAMILTON DUNBAR MEEK, Los Angeles, Calif. Filed Mar. 12, 1927. Serial No. 174,914. 4 Claims. (Cl. 20—68.)

1. A weather strip attachment of the class described comprising, in combination, a sheet metal housing having provision to be secured to the lower portion of a shutter, said housing having an open lower portion, a strip within the housing arranged to be projected therefrom, and retracted therein, a pair of bell cranks near both ends cooperating with the strip to actuate it, a centrally arranged and pivotally mounted master lever connected to actuate said bell cranks, spring means normally holding said master lever in position to retract the strip, and an adjustable actuating arm projecting from one end of the casing and



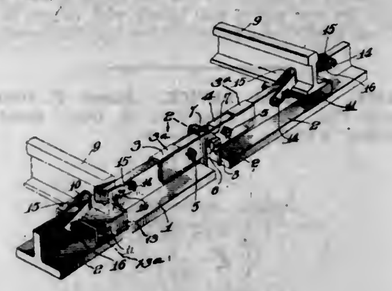
arranged to engage the shutter casing upon final closing movement thereof to project said strip into engagement with the sill.

1,681,870. SHOCK ABSORBER. THOMAS A. MILLER, Miami, Fla. Filed Feb. 4, 1927. Serial No. 165,915. 2 Claims. (Cl. 280—96.2.)



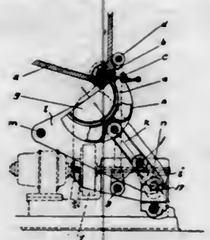
1. A steering knuckle of the character described comprising a spindle bolt having bearing ends, a resilient sleeve surrounding one of said ends, washers surrounding said last mentioned end and disposed upon opposite sides of said sleeve, a washer surrounding the other of said bearing ends, a sleeve surrounding said last mentioned end and means for retaining said sleeve thereon.

1,681,871. STEEL TIE AND RAIL ANCHOR. CHARLES MULHERN and BERNARD A. MULHERN, Wilkes-Barre, Pa. Filed Feb. 24, 1928. Serial No. 256,666. 6 Claims. (Cl. 238—32.)



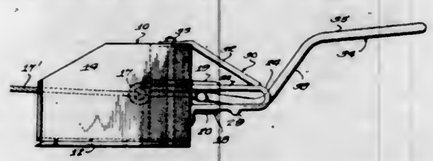
1. A railroad tie comprising a tie body consisting of two sections, means for clamping the rails to the tie sections, a coupling straddling and pivotally uniting the tie sections, and means operatively mounted on the coupling and engaging between the adjacent ends of the tie sections tending toward applying resiliency between the tie sections and thereby enabling them to rotate about their pivotal connection and reseat themselves on the road bed.

1,681,872. MACHINE FOR CASTING STEREOTYPE PLATES HAVING A MOLD ADAPTED TO BE PRESSED AGAINST THE OUTLET OPENING OF THE POT. ERNST MÜLLER, Bern, Switzerland. Filed Mar. 1, 1927, Serial No. 171,837, and in Germany Mar. 1, 1926. 3 Claims. (Cl. 22—2.)



1. An automatic machine for casting stereo-plates, comprising in combination, a melting pot with outlet, an organ to open and close said outlet, a casting box adapted to be opened and closed and to be pressed in the closed condition against the outlet of said pot, a continuously rotating part, a timing shaft through the agency of which the organ to open and close the outlet of said pot and the casting box are operated, mechanical elements by which said continuously rotating part turns said time shaft quickly in the operating periods of said organ and said casing box, and slowly in the non-operating periods, substantially as, and for the purpose, set forth.

1,681,873. ROAD SCRAPER. WILLIAM A. NICHOLSON, Prairie du Chien, Wis., assignor of one-half to Christian Wingen, Marquette, Iowa. Filed Apr. 8, 1927. Serial No. 182,138. 7 Claims. (Cl. 37—138.)



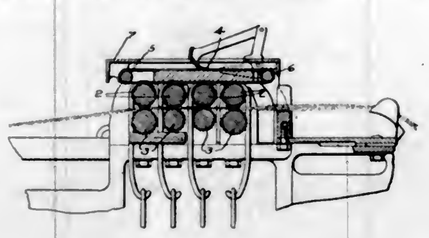
1. A device of the character described comprising a scraper body, means for connecting a source of power to said body to move it forwardly, a handle projecting rearwardly from said body, and a tranverse rod carried by said body rearwardly thereof for limiting the downward movement of the rear end of said handle with respect to said body, said handle being movable to release it from said rod.

1,681,874. OPTICAL DEVICE. ALBERT F. OUELLET, Jersey City, N. J. Filed Dec. 15, 1926. Serial No. 155,004. 3 Claims. (Cl. 88—1.)



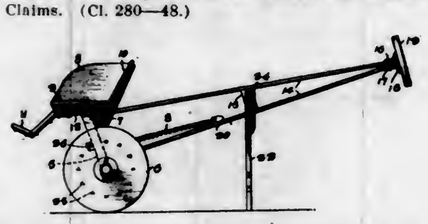
1. A device for facilitating the removal from the eye by the user, of a cinder or other foreign object, comprising a mirror, and means for supporting the same from a portion of one hand while using the thumb and forefinger of the same hand to open the eye whereby the other hand is free to effect the removal of the cinder or other foreign object from the eye, said supporting means consisting of a single length of resilient wire attached at its opposite ends to the mirror and coiled intermediate its length to provide a contractile helical portion adjacent convolutions of which define outwardly divergent clamping jaws between which a portion of the hand is received and by which it is frictionally gripped.

1,681,875. DRIVING ROLL FOR REVOLVING CLEARERS. LOREN W. PENNEY, Newton, Mass., assignor to Saco-Lowell Shops, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 26, 1926. Serial No. 104,532. 8 Claims. (Cl. 19—139.)



1. A driving roll for clearer cloths having a series of blunt teeth integral therewith and projecting from the periphery thereof, said teeth being spaced from each other both longitudinally and circumferentially of the roll all of said teeth pointing circumferentially of the roll and in the same direction.

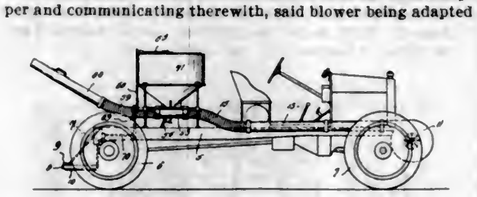
1,681,876. TOY PUSHCART. OSCAR PETERSON, Dent, Minn. Filed Sept. 14, 1925. Serial No. 56,335. 3 Claims. (Cl. 280—48.)



1. A toy push cart, comprising a handle having a pair of super-imposed rigid members having their forward end portions in spaced relation, an axle normally disposed at an angle to the perpendicular and arranged transversely of the handle and having said spaced forward ends across the top and bottom edges intermediate the ends thereof and pivotally secured thereto, whereby axial turning movement of the attached handle will effect swinging of the axle and steering of the cart, and supporting wheels journaled upon the ends of the axle.

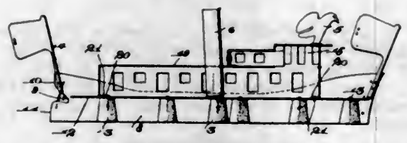
1,681,877. DUSTER FOR FORD TRUCKS. HOYLE POUNDS and HENRY E. PATRICK, Winter Garden, Fla. Filed June 14, 1927. Serial No. 198,859. 2 Claims. (Cl. 43—148.)

1. In a combination, a motor vehicle truck including a differential, a housing supported by the differential, a pinion in the housing and rotatable by the differential, a gear in the housing and meshing with the pinion, a shaft journaled through the housing on which is fixed said gear, a hopper mounted on the truck, an agitating shaft in the hopper, agitating means on the shaft, means for driving the shaft from the first mentioned shaft, a blower mounted on the truck, a tubular member at the bottom of the hopper and communicating therewith, said blower being adapted



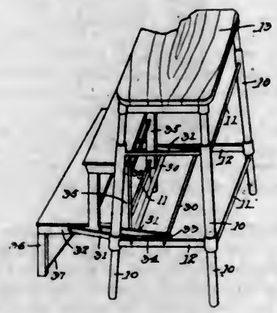
to create a draft through the tubular member, a valve for closing all communication between the tubular member and the hopper, and means for operating the valve.

1,681,878. STEAMBOAT AND LIKE TOY CONSTRUCTION AND PRINTED BLANK THEREFOR. FRANK ELMER PRINCE, Bangor, Me. Filed July 8, 1926. Serial No. 121,235. 6 Claims. (Cl. 46—37.)



1. A toy steamboat comprising a base structure having a horizontal deck, a superstructure simulating a cabin and pilot house secured on top of the deck, and stabilizing means consisting of cork applied to the base structure and deck in concealed position below the deck.

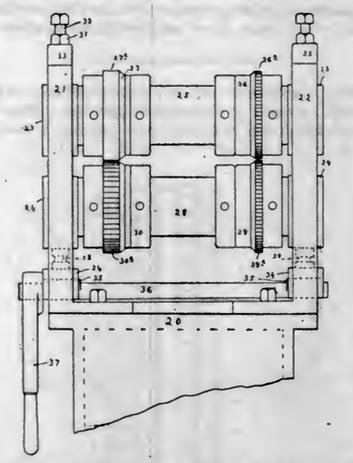
1,681,879. STEPLADDER. WILLIS E. PUTNAM, Worcester, Mass. Filed Jan. 21, 1927. Serial No. 162,624. 3 Claims. (Cl. 228—30.)



1. In an article of furniture, a step ladder having a top and legs constituting a frame, a step frame having a parallel motion and pivotal connection with the legs near the bottom and adapted to swing into the interior of the frame, said step ladder having a rod across it near the rear connecting two legs and constituting a stop for the step frame, and yielding means for normally tending to swing the step frame upwardly into the frame against said rod.

1,681,880. MACHINE FOR MAKING LOCK-JOINT TUBING. FRANK W. SCHNEIBLE, Rome, N. Y., assignor to Rome Manufacturing Company, Rome, N. Y., a Corporation. Filed Aug. 10, 1925. Serial No. 49,389. 5 Claims. (Cl. 113—33.)

1. In a machine for knurling the interengaging faces of the metal in lock-joint metal tubing prior to the metal being formed into tubing, the combination of a supporting frame, two oppositely located shafts, a pair of rolls on each shaft to engage the opposite surfaces of the strip of sheet metal which is to make the tubing adjacent the edges thereof, sufficient of said rolls having knurling faces to knurl the



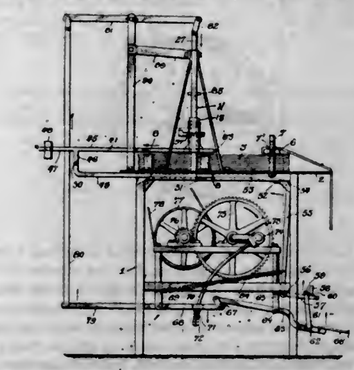
surfaces that are to interengage in the lock-joint and the remaining rolls having plain faces to form supporting anvil rolls and bearings in said frame for said shafts.

1,681,881. TOOL FOR TAKING UP TAPPETS AND THE LIKE. PAUL N. SHAW, Cleveland, Ohio. Filed Apr. 5, 1926. Serial No. 99,719. 5 Claims. (Cl. 81—3.)



1. In a tool of the character described, the combination of a hollow barrel having an end of non-circular contour externally, a nut socket engageable over such end, a laterally-extending handle engageable with said barrel for turning the same, a stem rotatable within said barrel and having a screw-slot blade, and a handle for rotating said stem.

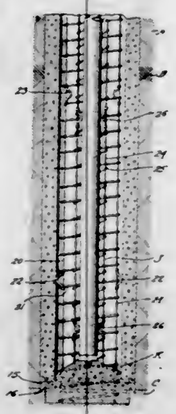
1,681,882. POCKET-SPACE STAMPING MACHINE. JACOB F. SILVERMAN, Brooklyn, N. Y. Filed Sept. 27, 1927. Serial No. 222,326. 9 Claims. (Cl. 101—316.)



1. A pocket space stamping machine, comprising a platform for receiving an article to be stamped, a printing

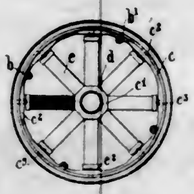
structure for stamping marks on said article, power driven means for moving said printing structure against said article and away from said article, and automatically actuated means for moving the printed part of said article to one side immediately after each printing operation.

1,681,883. METHOD OF PRODUCING AND PLACING PILES. GEORGE B. SIPE, Shreveport, La. Filed Oct. 26, 1923. Serial No. 671,015. 7 Claims. (Cl. 61—57.)



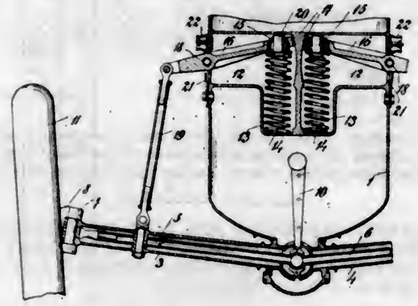
1. A method of producing and placing piles which comprises, drilling a cavity in the soil and removing the dislodged material through the cavity; placing a hollow cylindrical casing, open to the atmosphere and of slightly greater diameter than the cavity thus formed, to follow in the cavity as the drilling and removal of the dislodged material progresses, and to disrupt or sever parts of the strata encountered by the casing; placing reinforcement in the cavity when same has been drilled to the desired extent, and centering said reinforcement by engagement with the interior of the casing and filling the cavity with concrete embedding the reinforcement therein.

1,681,884. ELECTRICAL CONDENSER. WILLIAM HENRY GOODMAN, Kensington, London, England, assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 12, 1923, Serial No. 618,695, and in Great Britain Mar. 22, 1922. 6 Claims. (Cl. 175—41.)



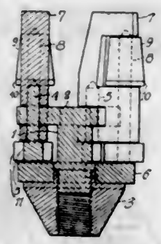
5. An electrical condenser comprising a casing, a central support and conductor in said casing, an abutment upon said support, condenser plates grouped to form units in substantially radial arrangement about said support as an axis, said units engaging the abutment at one end, an annular member surrounding said units to enable them to be engaged at their opposite ends and held in position with reference to said support, and one or more rods forming terminals or conductors for the opposite ends of said units.

1,681,885. MOTOR VEHICLE. LEOPOLD RAAB, Vienna, Austria, assignor to Oesterreichische Daimler-Motoren Aktiengesellschaft, Wiener-Neustadt, Austria. Filed June 17, 1926, Serial No. 116,758, and in Austria June 24, 1925. 9 Claims. (Cl. 180—70.)



1. In a motor-vehicle, the combination with an axle divided into two spring-controlled parts adapted to be relatively deflected about a point situated below the level of the wheel centres, of a propeller shaft arranged with its axis in alignment with the point about which the axle parts are deflected.

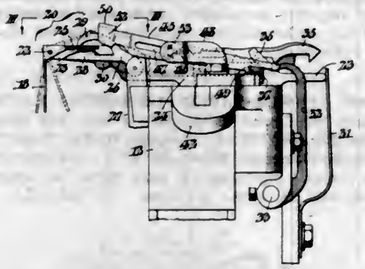
1,681,886. TUBE CLEANER. OTTO C. RUNGE, Baltimore, Md., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed May 7, 1923. Serial No. 637,145. 4 Claims. (Cl. 15—104.14.)



1. In a tube-cleaner a body member having transverse projections, headed pivot pins through said transverse projections, yoke members mounted on said pivot pins, spindles in said yoke members carrying rotary cutters and supported at their forward ends by step bearings in the yoke members, a backing plate contacting with the rear end of the spindles and the heads of the pivot pins, and a support screw-threadedly engaging the body member and holding the backing plate in position.

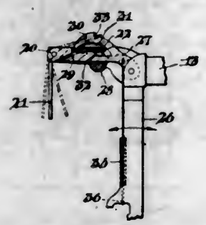
1,681,887. STOP MOTION FOR LOOMS. DAVID E. SKEDGELL, Millville, N. J., assignor to The Millville Manufacturing Company, Millville, N. J., a Corporation of New Jersey. Filed June 20, 1927. Serial No. 200,121. 5 Claims. (Cl. 139—377.)

1. In an automatic loom with filling-replenishing mechanism, stopping mechanism, a filling detector to cooperate with a grid on the lay, a constantly reciprocating element with hooks in different planes to engage the tail loop of the detector in the absence of filling before the grid, also when said detector is swung to an abnormal extent due to the presence of an obstruction larger than the filling before the grid, the combination of a thrust bar lying in the path of the tail of the detector when the latter is moved to abnormal position and adapted to trip the loom stopping mechanism without entailing actuation of the filling-replenishing mechanism, said bar incorporating a U-shaped portion



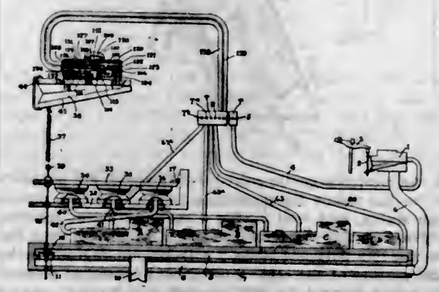
fitting over the hook element for contact with the detector tail loop at more than one point, thereby to insure positive actuation of said stopping mechanism.

1,681,888. STOP MOTION FOR LOOMS. DAVID SKEDGELL, Millville, N. J., assignor to Millville Manufacturing Company, Millville, N. J., a Corporation of New Jersey. Filed June 20, 1927. Serial No. 200,122. 3 Claims. (Cl. 139—377.)



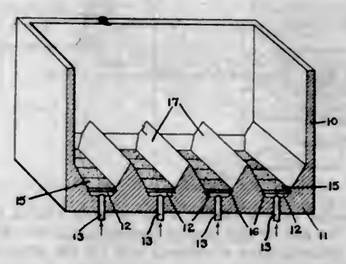
1. In a filling stop motion for looms, comprising a hook element with notches in different planes, said element pivotally connected to a constantly vibrating actuator and confined by an underlying supporting rest to definite reciprocatory movement relative to the filling detector in readiness to be automatically engaged by the tail loop of the latter in the absence of filling or in the presence of an abnormal obstruction before the reed, the combination of a spring in tension means to prevent the hook element from being accidentally lifted from its supporting rest and causing mal-operation of the loom stopping mechanism.

1,681,889. AUTOMATIC PLAYER PIANO. CHARLES F. STODDARD, New York, N. Y., assignor to American Piano Company, New York, N. Y., a Corporation of New Jersey. Filed June 1, 1923. Serial No. 642,749. 5 Claims. (Cl. 84—41.)



1. A throttle valve for automatic expression mechanisms, comprising, in combination, a valve stem, a valve mounted loosely thereon having a rounded bearing surface through which the stem passes, a pair of collars fixed to said stem mounted on either side of said valve and cooperating with said bearing surface to prevent longitudinal movement of the valve relative to the stem while permitting relative angular movement therebetween.

1,681,890. DIFFUSION PLATE. LORENZO S. WASHBURN, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 25, 1924. Serial No. 688,560. 1 Claim. (Cl. 261—122.)

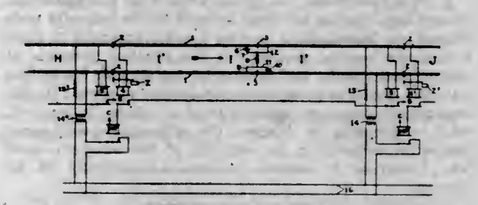


An apparatus for treating liquids, such as sewage, comprising a vessel divided into an upper and lower compartment by a porous diffusion plate of granular material united by a vitrified ceramic material having the walls of its pores treated with a water repellent substance adapted to reduce the capillarity of the plate so as to permit the free passage of a fluid therethrough, said upper compartment being adapted to contain liquid, and means for passing a gaseous agent, such as air, under pressure into the lower compartment so that it may pass through the plate into the liquid confined in the upper compartment.

1,681,891. MANUFACTURE OF ABRASIVE ARTICLES. DUANE E. WEBSTER, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 26, 1926. Serial No. 144,408. 5 Claims. (Cl. 18—53.)

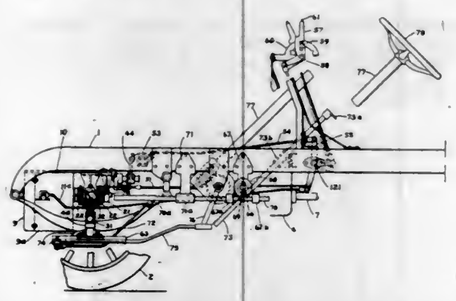
1. The improvement in the manufacture of rubber bonded articles containing granular material comprising admixing abrasive grain and a vulcanizing agent with rubber latex having a total rubber content of not less than 30 per cent by weight, shaping the resultant mixture substantially to the desired form, and subsequently drying and vulcanizing the thus shaped article.

1,681,892. TRAIN CONTROL. WALTER W. WENHOLZ, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Nov. 20, 1924. Serial No. 751,061. 12 Claims. (Cl. 246—34.)



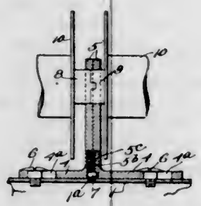
1. Trackway apparatus for a train control system employing direct current and alternating current comprising, an insulated section of the track rails, means for independently impressing a direct current potential across two portions of said section of the track rails, and for impressing alternating current potential across the entire section of the track rails.

1,681,893. MOTOR VEHICLE AND STEERING DEVICE. FREDERCK B. BARSHELL, New York, N. Y., assignor of one-half to David Barshell, New York, N. Y. Original application filed Feb. 1, 1923, Serial No. 616,423. Divided and this application filed Sept. 17, 1926. Serial No. 136,116. 12 Claims. (Cl. 180—45.)



1. A motor vehicle having dirigible front wheels, a steering arm for one of said wheels, extending in one direction from its steering axis, a steering arm for the other of said wheels extending from the steering axis of said second wheel in substantially the same direction as said first crank arm, said second steering arm also extending in substantially the opposite direction from the steering axis of the second wheel, and a cross member adapted to connect the first steering arm with the second steering arm as desired, either with the extension of said second steering arm in the same direction as said first arm or with the extension of said second arm in the opposite direction, whereby said wheels may be steered in parallelism or in opposite directions to each other.

1,681,894. BEARING FOR DEMOUNTABLE SPOOLS. WALTER BIXBY, Boston, Mass., assignor to Shawmut Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 5, 1923. Serial No. 666,839. 8 Claims. (Cl. 139—10.)

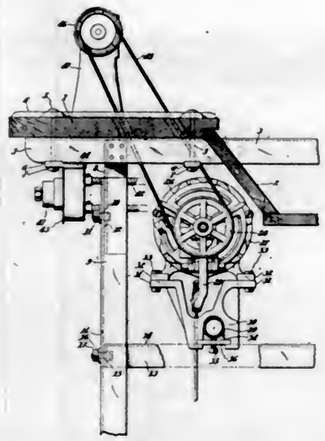


1. In a tube-frame, the combination with a longitudinal carrier-bar, bearing brackets secured to the opposite ends thereof, an intermediate bearing bracket arranged to form a common bearing support for the abutting journals of aligned yarn-spools, said bracket having slidable connection with the carrier-bar longitudinally thereof to permit its disengagement from one spool-journal to allow its removal, while continuing to support the adjacent spool-journal thereafter permitting the removal of the adjacent spool when returned to normal position, substantially as described.

1,681,895. REFINING OILS. LOUS BURGESS, Bayonne, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed July 13, 1923. Serial No. 651,435. 3 Claims. (Cl. 196—38.)

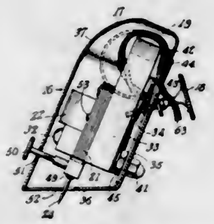
1. The improvement in the art of refining hydrocarbon oils, which comprises repeatedly treating the oil with fuming sulfuric acid in the proportion of 5–10%, whereby sludge and oil-soluble sulfur containing compounds are formed, and after each treatment with 5 to 10% of fuming sulphuric acid separating the sludge and after each sludge separation subjecting the oil to the action of caustic soda and an aliphatic monohydric alcohol, and removing from the oil the alcohol solution containing dissolved oil-soluble sulfur compounds.

1,681,896. POWER TABLE FOR SEWING MACHINES. GEORGE M. EAMES, Bridgeport, Conn., and IRVING F. WEBB, Elizabeth, N. J., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Jan. 15, 1925, Serial No. 2,540. Renewed Jan. 28, 1928. 5 Claims. (Cl. 45—27.)



1. A power-table for sewing and like machines comprising a table-top, table-top end standards, a tubular supporting member sustained by said standards and affording a conduit for electric-current leads, and an electric-transmitter mounted upon said member.

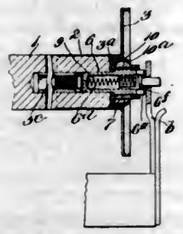
1,681,897. ELECTRICAL PHONOGRAPH REPRODUCER. CARL F. GOUDY, Flushing, N. Y., assignor to Pacent Radio Corporation, New York, N. Y., a Corporation of Delaware. Filed July 30, 1927. Serial No. 209,500. 14 Claims. (Cl. 179—100.1.)



2. An electromagnetic reproducer comprising a magnetic reed having means for connecting the same with a phonograph stylus, said reed having a base portion of substantially rectangular cross section and a cylindrical stem terminating in a flattened blade, a coil surrounding said cylindrical portion of the reed, a permanent horseshoe magnet, pole pieces secured to said magnet and having opposed branches forming a magnetic gap for the flattened tip of the reed and opposed branches providing a seat for the substantially rectangular portion of the reed, an elastic

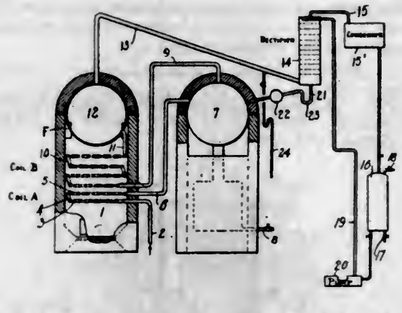
sleeve about the angular portion of the reed, clamp bars closing opposite sides of the seat and securing said elastic sleeve in compressed relation with the intervening portions of the pole pieces acting as spacers holding said clamp bars spaced in definite relation.

1,681,898. YARN SPOOL FOR TUBE FRAMES. EDGAR F. HATHAWAY, Wellesley, and WALTER BIXBY, Boston, Mass., assignors to Shawmut Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 5, 1926. Serial No. 146,425. 6 Claims. (Cl. 242—123.)



1. A yarn spool for a tube frame or the like, embracing in combination a spool-barrel having an axial bore in its end, a threaded bushing anchored in said bore by a transverse locking pin, a journal gudgeon having threaded engagement with said bushing and arranged, when screwed home, to form an interlocking engagement with the transverse pin to lock the pin against displacement transversely of the spool, and acting by the thrust against said pin to lock itself against unscrewing.

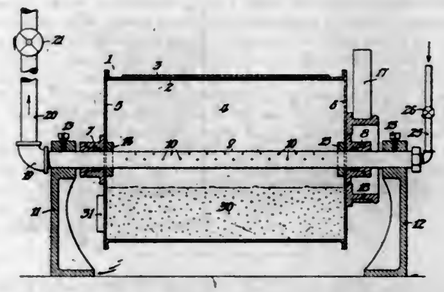
1,681,899. ART OF CRACKING HYDROCARBONS. FRANK A. HOWARD, Elizabeth, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Mar. 20, 1923. Serial No. 626,264. 7 Claims. (Cl. 196—60.)



6. In apparatus of the character described, the combination of a heating coil located as a screen to absorb radiant heat, a distillation chamber into which said coil discharges, another heating coil screened solely by the first-mentioned coil, and a vapor line from the chamber to the last-mentioned heating coil.

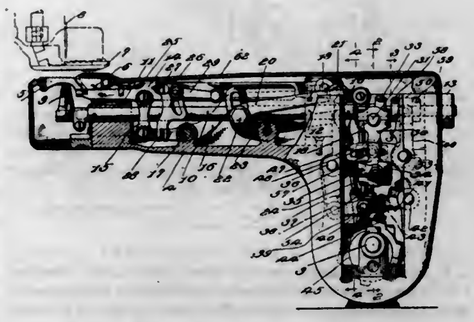
1,681,900. CELLULOSE-XANTHATING PROCESS. WILLIAM MENDEL, Beverly, N. J., assignor to Samuel A. Neidich, Edgewater Park, N. J. Filed May 1, 1926. Serial No. 106,155. 7 Claims. (Cl. 260—100.)

1. A cellulose xanthating process, which includes subjecting a mass of alkali-cellulose to a vacuum, while agitating said mass, until air and water vapor are exhausted therefrom; then subjecting said evacuated mass to the action of carbon bisulphide, while agitating said mass, until it is transformed to cellulose xanthate; then subjecting



said mass to the action of a vacuum, while agitating said mass, until the fumes of carbon bisulphide are exhausted therefrom.

1,681,901. LOOPER MECHANISM FOR SEWING MACHINES. JAMES R. MOFFATT, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 20, 1921. Serial No. 508,930. 8 Claims. (Cl. 112—200.)

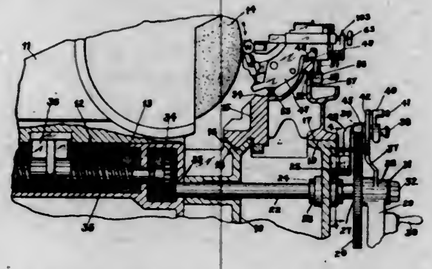


1. The combination of a vertically extending frame member, a work supporting arm projecting laterally therefrom, an operating shaft extending into said frame member, a looper supporting shaft extending longitudinally of said work supporting arm, a threaded looper carried thereby, means actuated by said operating shaft for giving the looper supporting shaft an endwise movement, and independent means actuated by said operating shaft for oscillating said looper supporting shaft, said means including toggle links movable toward and from a dead center, said toggle links being in substantial alinement when the looper is at the forward end of its stroke and during the endwise movement of the looper shaft.

1,681,902. CYLINDRICAL GRINDING MACHINE. CHARLES H. NORTON, Plainville, Conn., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed June 29, 1926. Serial No. 119,435. 19 Claims. (Cl. 51—238.)

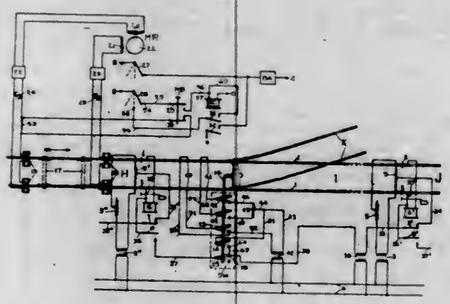
1. A grinding machine comprising a rotatably mounted grinding wheel, means for moving the grinding wheel mounting to feed the wheel a predetermined distance into the work, a movably mounted work steadying member, and

an automatically operated mechanism for positively moving said member forward so that it will maintain contact with the work at a uniform pressure as it is reduced in size,



which is constructed and arranged to effectively resist movement in the opposite direction by forces set up during the grinding operation.

1,681,903. TRAIN CONTROL. HERMON P. OBER, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Aug. 15, 1924. Serial No. 732,212. 14 Claims. (Cl. 246—63.)



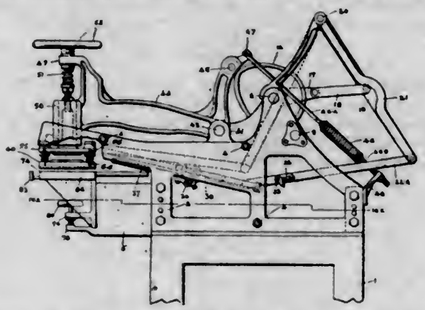
1. In an automatic train control system, the combination with car-carried apparatus including a brake control device, and means for controlling said device in response to control energy transmitted from the trackway, of manually controllable means for rendering said brake control device inactive only if an amount of energy in excess of said control energy is received from the trackway and, a track switch, and trackway means adjacent said track switch for transmitting said excess amount of energy to said car-carried apparatus only when the track switch is in a given position.

1,681,904. WELDING ROD. PLINY P. PIPER, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Mar. 18, 1927. Serial No. 176,583. 2 Claims. (Cl. 219—8.)

1. A copper welding rod containing phosphorus between the limits of about 0.10% and 0.20% and tin between the limits of about 0.50% and 1.00%.

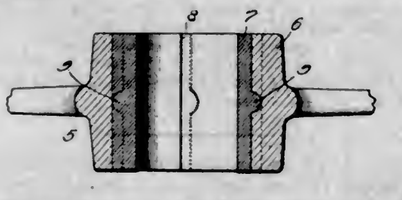
1,681,905. PRINTING MACHINE. ALVIN A. SCUBE, Rochester, N. Y. Filed Apr. 13, 1925. Serial No. 22,551. 21 Claims. (Cl. 101—302.)

1. In a printing machine, the combination of a frame, an arm mounted to swing thereon, a bed plate carried by said arm, type supported by said bed plate, a frame having ink rollers therein, stationary inclined guides in which said frame can travel back and forth, an ink supply at one end of the guides from which the rollers take ink, said bed plate and type being raised by the arm to tilted position substantially parallel with the other end of said guides to



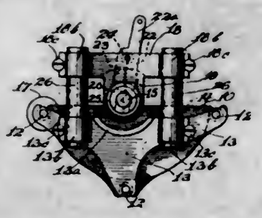
permit the ink rollers to move in contact with the type and a platen for supporting the box to be printed with reference to which the guides are inclined.

1,681,906. BUSHED MANGANESE-STEEL SHEAVE AND THE LIKE. JOHN C. TAYLOR, Jr., High Bridge, N. J., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed Sept. 21, 1927. Serial No. 220,958. 4 Claims. (Cl. 22—203.)



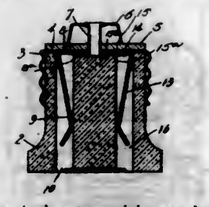
1. The method of eliminating excess metal and otherwise to insure uniformity of sound metal section in wheel shapes of manganese steel or other substantially non-machinable metal, which consists in moulding the shape around a machinable bushing having spaced longitudinal wall sections whereby it is free to contract to relieve strains incidental to shrinkage of the manganese steel.

1,681,907. VARIABLE CONDENSER. HAROLD E. BECK, Chicago, Ill. Filed Oct. 31, 1924. Serial No. 746,923. 12 Claims. (Cl. 175—41.5.)



1. In a variable condenser, the combination of spaced stator plates, spaced rotor plates intermediate said stator plates, a shaft supporting said rotor plates for rotary movement, a first mounting plate at one end of the condenser substantially parallel with said stator plates and secured thereto at a substantial distance therefrom, a second mounting plate substantially in the plane of said first mounting plate and substantially separated therefrom and carrying a bearing for said shaft, and rods of high dielectric strength securing said mounting plates together to maintain said stator and rotor plates in spaced relation from each other.

1,681,908. ELECTRIC CONNECTING PLUG. JOHAN G. PETERSON, Hartford, Conn. Filed Apr. 7, 1924. Serial No. 704,639. 11 Claims. (Cl. 173—343.)



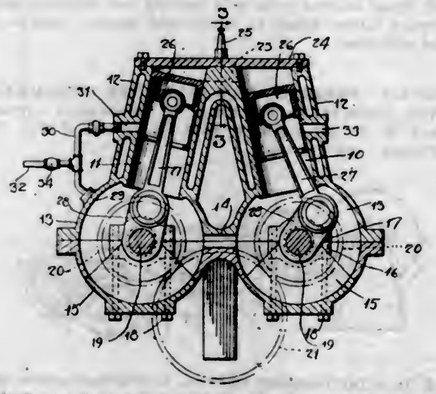
1. An attachment plug comprising an insulating body of substantially uniform diameter at its inner end presenting a substantially flat inner end, a conducting shell fitted on the inner end thereof, a shallow insulating disc overlying the inner ends of said shell and body, a hollow outstanding central contact boss outside said disc and of substantially greater height than the latter, contacts in said body insulated from one another and respectively electrically connectable to said shell and boss, and means holding the parts in assembled relation with said contacts respectively electrically connected to said shell and boss.

1,681,909. AUTOMOBILE HEADLIGHT. RUFUS A. RUSSELL, Jr., San Diego, Calif. Filed Feb. 24, 1927. Serial No. 170,588. 1 Claim. (Cl. 240—7.1.)



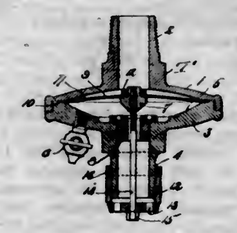
An automobile headlight comprising a horizontal elongated casing, an elongated reflector in said casing formed of a sheet metal body stamped to provide a series of integrally connected parabolic reflectors connected to each other by curved reflectors at each end of the series having their sides which form the ends of the reflector extending outwardly and joining the ends of the casing, and lamps in the reflectors mounted in a plane behind the extremities of the reflecting surfaces of the end reflectors and in a plane coinciding with the plane of the curved connecting surfaces, substantially as set forth.

1,681,910. INTERNAL-COMBUSTION ENGINE. DANIEL C. SLAGHT, Easton, Pa. Filed July 6, 1926, Serial No. 120,810. Renewed Jan. 26, 1928. 2 Claims. (Cl. 123—53.)



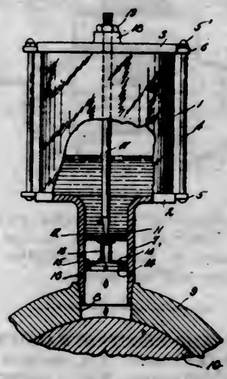
2. In an internal combustion engine, a pair of cylinders arranged with their axes at an acute angle, said axes being disposed in inverted V-shaped arrangement, said cylinders having port communication at their upper ends, a piston in each cylinder, a crank shaft for each cylinder, piston rods each connecting a piston with a respective crank shaft, one of said cylinders having an inlet port and the other cylinder having an exhaust port, said ports being positioned in the sides of the cylinders for covering and uncovering by respective pistons, gearing connecting the crank shafts arranged to cause them to revolve in unison with the cranks of the crank shafts in relative angular displacement whereby one of said pistons moves through its cycle slightly in advance of the other, a pair of closed crank cases each connected to the lower end of a respective cylinder, said crank casing having port communication with each other, a pipe leading from one of the crank cases to said inlet port, a carburized air supply pipe communicating with the last mentioned pipe between the crank case and inlet port, and a check valve in the supply pipe opening toward the first pipe.

1,681,911. TRAIN-HEATING SYSTEM. JOHN A. SPENCER, Revere, Mass., assignor to Spencer Thermostat Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Oct. 25, 1924. Serial No. 745,831. 18 Claims. (Cl. 236—59.)



1. An escape valve for train heating systems and the like comprising a casing having a threaded nipple at its upper end for connection to the under side of a conduit, the casing having a vertical passageway to drain the conduit, a cupped sheet-metal thermostat disposed horizontally in said casing, and a valve connected to said thermostat for closing said passageway.

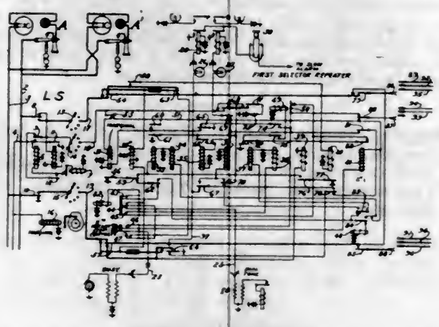
1,681,912. LUBRICATING DEVICE. JOHN A. SPENCER, Revere, Mass., assignor to Spencer Thermostat Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Oct. 28, 1924. Serial No. 746,314. 14 Claims. (Cl. 184—68.)



1. A lubricating device for bearings comprising a receptacle having an outlet, means for restricting the flow of oil through said outlet, and snap action temperature

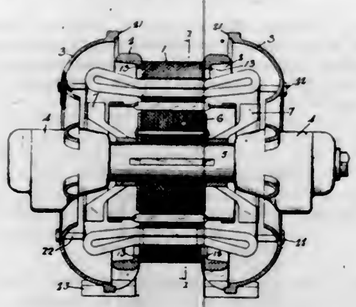
controlled means responsive to the bearing temperature connected to said last means for automatically and instantaneously augmenting the flow when the temperature reaches a predetermined point.

1,681,913. AUTOMATIC TELEPHONE SYSTEM. JOHN WICKS, Oak Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed May 19, 1924, Serial No. 714,240. Renewed May 11, 1928. 38 Claims. (Cl. 179—18.)



1. In a telephone system, means including a selector repeater and a final connector for connecting a calling and a called line, a control circuit extending between said switches, means in said selector repeater for supplying current to said control circuit and for interrupting the current supply to transmit digit impulses, and a relay in said connector responsive to such impulses for setting the connector on a called line.

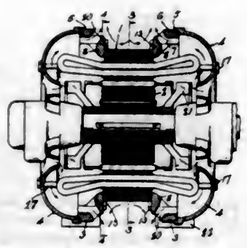
1,681,914. DYNAMO-ELECTRIC-MACHINE STATOR. JOHN M. BARR, Milwaukee, Wis., assignor to The Louis Allis Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 12, 1923. Serial No. 680,159. 13 Claims. (Cl. 172—36.)



1. A stator comprising a laminated core, end frames supporting said core, and castings carried by said end frames and formed to provide ventilating passages between the same and said end frames.

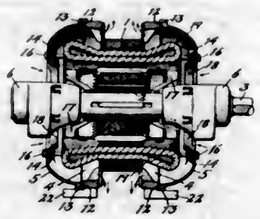
1,681,915. DYNAMO-ELECTRIC-MACHINE STATOR. JOHN M. BARR, Milwaukee, Wis., assignor to The Louis Allis Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 12, 1923. Serial No. 680,160. 3 Claims. (Cl. 172—36.)

2. A dynamo electric machine stator comprising a core, an end frame having continuous engagement with each end thereof and provided with passages therethrough formed to direct discharged air outward and away from



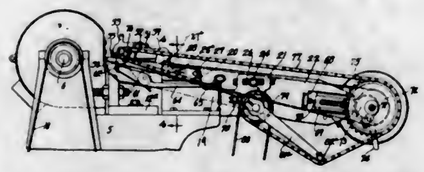
said core and cause external air to circulate upon the outside thereof, and an end casing carried by each end frame and having continuous engagement therewith.

1,681,916. DYNAMO-ELECTRIC-MACHINE STATOR. JOHN M. BARR, Milwaukee, Wis., assignor to The Louis Allis Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 18, 1924. Serial No. 693,615. 2 Claims. (Cl. 172—36.)



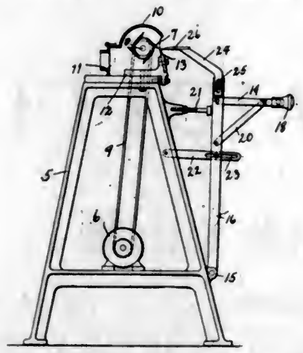
1. A stator for dynamo electric machines comprising separate end frames each having concentric inward and outward lateral flanges and inward radial lugs, a laminated core having a central circular pole face and outer corners concentric thereto and arranged between said end frames and held concentric thereto and in alinement therewith by said inward lateral flanges engaging said corners, bolts passing through said core near said corners and said inward radial lugs to hold said end frames and core together, and an end casing carried by each end frame and having a central bearing and an inward lateral flange concentric to said bearing and engaging said outward lateral flange to center said bearing relative to said pole face.

1,681,917. FEEDING MECHANISM FOR FUR-SHEARING MACHINES. FREDERICK W. HORSTMANN, Irvington, N. J. Filed Feb. 7, 1925. Serial No. 7,671. 23 Claims. (Cl. 149—26.)



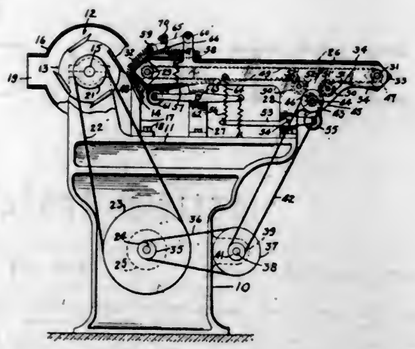
1. In a fur trimming machine, a shearing mechanism, an endless conveyor adjustable relative to the shearing mechanism and flexible means carried by said conveyor for holding a skin upon said conveyor.

1,681,918. FUR-SHEARING MACHINE. FREDERICK W. HORSTMANN, Maplewood, N. J. Filed June 22, 1925. Serial No. 38,832. 1 Claim. (Cl. 149—26.)



In a fur trimming machine, the combination with a stand having a bed knife and rotary knives cooperating therewith, a frame pivotally mounted on said stand, arms carried at the upper end of said frame, a flat stretcher bar or apron formed with said arms, means for moving said stretcher bar in an approximately horizontal plane toward the rotary knives and in proximity to the bed knife and means for limiting the inner and outer movements of said frame and stretcher bar.

1,681,919. MACHINE FOR CUTTING DESIGNS IN FURS. FREDERICK W. HORSTMANN, Maplewood, N. J. Filed Mar. 25, 1926. Serial No. 97,182. 10 Claims. (Cl. 149—26.)



1. In a fur cutting machine, the combination of a fur shearing device, a conveyor for feeding a fur past said device, and means for moving one end of said conveyor toward and from said device while a fur is being fed past said device whereby the fur will be cut in a predetermined design.

THE

OFFICIAL GAZETTE

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Issue of August 28, 1928.

Trade-Marks	214—No.	245,890 to No.	246,103, inclusive.
Labels	46—No.	34,467 to No.	34,512, inclusive.
Prints	8—No.	11,184 to No.	11,191, inclusive.
Reissues	5—No.	17,069 to No.	17,073, inclusive.
Designs	40—No.	76,175 to No.	76,214, inclusive.
Patents	811—No.	1,681,920 to No.	1,682,730, inclusive.
Total	1,124		

Interference Notice.

U. S. Patent Office, *Washington, Aug. 11, 1928.*

Union Baking Company, Incorporated, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Fischer Baking Co., of Rose and Livingston Streets, Newark, N. J., for registration of a trade-mark and trade-mark registered September 16, 1924, No. 189,190, to Union Baking Company, Incorporated, of Fifth and Columbia Streets, Vancouver, Wash., and a notice of such declaration sent by registered mail to said Union Baking Company, Incorporated, at the said address having been returned by the post-office as undeliverable, notice is hereby given that unless said Union Baking Company, Incorporated, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Notices of Cancellation.

U. S. Patent Office, *Washington, Aug. 2, 1928.*

William P. Saunders, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of The American Products Company, of 3265 Colerain Avenue, Cincinnati, Ohio, to effect the cancellation of the trade-mark registration of William P. Saunders, of care of Sano Mfg. Co., 310 North 18th Street, Birmingham, Ala., No. 126,897, dated October 7, 1919, and the notice of such proceeding sent by registered mail to the said William P. Saunders at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said William P. Saunders, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. Patent Office, *Washington, Aug. 2, 1928.*

Tiger Products Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Union Supply Company, of 10 South Brond Street, Elizabeth, N. J., to effect the cancellation of the trade-mark registration of Tiger Products Company, of 1503 Merchants Bank Building and 55 East Third Street, St. Paul, Minn., No. 139,410, dated February 1, 1921, and the notice of such proceeding sent by registered mail to the said Tiger Products Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless Tiger Products Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. Patent Office, *Washington, Aug. 2, 1928.*

Diamond Creamery Co., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of National Creamery Company, of Boston, Mass., to effect the cancellation of the trade-mark registration of Diamond Creamery Co., of Massena, N. Y., No. 84,216, dated November 21, 1911, and the notice of such proceeding sent by registered mail to the said Diamond Creamery Co. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Diamond Creamery Co., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business August 17, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 111,453; Trade-Mark Division, 1,722. Oldest new case, Oct. 19, 1927; oldest amended, Oct. 24, 1927. The dates given are 1927 except where † indicates 1928.)

Room No.	Divisions, Examiners, and Subjects of Inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	†Jan. 12	†Jan. 16	1,519
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	†Jan. 11	†Jan. 19	1,658
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Dec. 1	†Jan. 6	1,595
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Oct. 31	Nov. 4	1,665
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Nov. 8	Nov. 3	1,572
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	Dec. 14	Dec. 8	2,565
106	7. JARBOE, C. G., Optics; Photography	Nov. 16	Nov. 10	1,957
133	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Nov. 23	Dec. 10	2,458
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	†Mar. 2	†Mar. 8	1,640
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Dec. 1	Dec. 21	1,825
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	†Jan. 31	†Jan. 30	1,022
380	12. PIERCE, P. P., Machine Elements	Nov. 17	Nov. 28	2,071
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling, Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	†Jan. 9	Dec. 9	1,380
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Nov. 19	Dec. 3	1,229
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Dec. 5	Dec. 22	2,439
242*	16. SPENCER, C. J., Telegraphy; Telephony	Nov. 19	Dec. 29	1,146
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Dec. 10	†Jan. 5	1,464
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Dec. 12	Dec. 13	1,607
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Dec. 23	Dec. 19	1,875
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	†Mar. 1	†Mar. 5	1,533
212	21. THURBUR, W. L., Textiles; Cloth Finishing	Nov. 17	Dec. 15	1,114
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Nov. 19	Dec. 15	1,609
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Nov. 2	Nov. 2	1,122
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Nov. 2	Nov. 12	1,518
202*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	†Jan. 17	†Jan. 25	1,659
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	Nov. 23	Nov. 25	1,232
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	†Jan. 24	†Jan. 20	1,402
225	28. BENSON, A. R., Internal-Combustion Engines	Nov. 23	Nov. 26	2,047
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	Dec. 17	Dec. 2	1,170
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Jan. 3	†Jan. 20	1,474
312	31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils.	Dec. 17	Dec. 5	2,199
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Nov. 18	Nov. 23	2,272
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	†Mar. 16	†Mar. 19	1,941
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Nov. 4	Nov. 10	1,502
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	†Feb. 29	†Mar. 22	1,732
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	†Feb. 4	†Jan. 27	1,961
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Nov. 17	†Jan. 13	2,182
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	†Jan. 23	†Jan. 18	1,784
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Oct. 24	Nov. 1	1,898
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Dec. 1	Dec. 5	2,667
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Dec. 31	†Jan. 4	1,496
223*	42. CUTTING, H. O., Electric Signaling	Dec. 2	Dec. 17	1,667
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Dec. 10	†Jan. 25	2,107
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Nov. 23	Dec. 9	2,139
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	Nov. 10	Nov. 15	2,485
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Nov. 1	Nov. 1	1,569
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	Dec. 10	Dec. 20	2,031
212*	48. ROEPKE, O. B., Electricity, General Applications	Dec. 19	Dec. 21	1,561
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Nov. 16	†Jan. 14	1,468
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	†Jan. 3	†Jan. 4	2,564
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Dec. 9	Dec. 3	2,267
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	†Jan. 7	†Jan. 9	2,136
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Dec. 20	Dec. 23	1,772
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Dec. 1	Dec. 1	2,393
102	55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery	Nov. 22	Nov. 22	938
	{Designs	†June 26	†July 5	839
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Oct. 19	Oct. 28	2,597
257*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Dec. 15	†Jan. 12	1,160
270*	58. DOWELL, E. F., Abrading; Typewriting	Oct. 31	Nov. 7	1,472
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins and Leather; Fuel.	Oct. 24	Oct. 24	2,236
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	Nov. 19	Dec. 8	1,605
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	Oct. 20	Nov. 25	2,093
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage, Package and Article Carriers.	Nov. 7	Nov. 15	1,851
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade-Marks	†July 18	†Aug. 4	1,632
	{Labels and Prints	†Aug. 4	†Aug. 8	90

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

In re Gregg & Son, Inc.

No. 1,999. Decided March 5, 1928.

1. Trade-Marks—Trade-Mark Use.

The placing of a mark on labels attached to cleaned or renovated goods when they are returned to the owners *Held* not a trade-mark use of that mark since it indicates neither origin or ownership of the goods.

2. Same—Right of Registration—How Acquired.

"To entitle an applicant to the registration of a trade-mark it must appear that the mark has been used on an article of commerce, and that it has been used in commerce. The mark must likewise possess a distinctive identifying characteristic of the article to which it is affixed and must be used to indicate the origin or ownership of the article to which it is attached."

Appeal from the Commissioner of Patents. Affirmed.

Mr. Arthur M. Hood for Gregg & Son, Inc.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before Martin, Chief Justice, Van Orsdel, Associate Justice, and Smith, Judge of the U. S. Court of Customs Appeals.

Van Orsdel, *J.:*

This appeal is from the decision of the Commissioner of Patents denying the application of appellant for the registration of a trade-mark on the ground of lack of trade-mark use.

[1] It appears that appellant company is a service corporation carrying on the business of repairing, cleaning, renovating, and dyeing fabrics and furs. The mark sought to be registered is used by appellant company on labels attached to goods that have been cleaned or renovated when the same are returned to the owners. Registration was refused on the ground that the mark does not indicate either the origin or the ownership of the goods on which it is used. Clearly the goods do not originate with appellant company, neither is it the owner of the goods, since all that is done by appellant is the repairing, cleaning, renovating, or dyeing of the fabrics or furs, the origin and ownership of which are in the persons for whom appellant's services are engaged.

[2] To entitle an applicant to the registration of a trade-mark it must appear that the mark has been used on an article of commerce, and that it has been used in commerce. The mark must likewise possess a distinctive identifying characteristic of the article to which it is affixed and must be used to indicate the origin or ownership of the article to which it is attached. Nims, in his work on Unfair Competition and Trade-Marks (2d ed.) section 212, in defining who may acquire a trade-mark says:

> Not only a manufacturer of goods but a merchant, distributor, jobber, bottler, or other person who selects goods and markets them or places them before the public may adopt for use his own trade-mark. *Hughes v. Alfred H. Smith Company*, 205 Fed. 302.

In section 214 of the same work, the author defines the manner in which a trade-mark may be acquired, as follows:

> The trader must do three things in order to acquire a good title to a technical trade-mark: first, he must adopt a trade-mark open to appropriation; second, he must apply it or attach it physically to a vendible commodity, and, third, he must actually put the commodity so marked on the market. *Schneider v. Williams*, 44 N. J. Eq. 391.

It will be observed that the appellant falls far short of meeting the requirements that would entitle it to the registration of its mark. The mark is not attached to vendible articles, nor does appellant occupy such a relation to the goods to which the mark is attached as to entitle it to sell or dispose of the same. It is neither the owner of the goods nor an agent authorized to sell or dispose of them.

Appellant company does not rise to the dignity of a dealer or retailer, who may have his mark placed upon the goods he handles by the manufacturer, for in such cases the dealer or retailer is the owner of the goods, and as such comes clearly within the registration requirements. Neither is appellant a producer of the goods, since he possesses neither origination nor ownership.

The decision of the Commissioner is affirmed.

Court of Appeals of the District of Columbia.

Gray v. The Armand Company.

No. 2,022. Decided March 6, 1928.

1. Trade-Marks—Right to Registration—How Acquired.

It is settled law that the office of a trade-mark is to distinctly point out the origin or ownership of the article to which the mark is attached. It follows, therefore, that to establish a right to the registration of a trade-mark two things are necessary: That it must have been actually applied to vendible goods; and that the goods have been sold in interstate commerce.

2. Same—Trade-Marks—Trade-Mark Use.

Where, in connection with the goods of the A. Co. a picture was affixed to a box containing such goods and placed on a counter where these goods were for sale, the combination not being sold to a customer, but retained in the store. *Held* that this did not constitute a use by the A. Co. of such picture as a trade-mark for the goods in question.

Appeal from the Commissioner of Patents. Reversed.

Mr. W. P. Preble for Gray.

Mr. Paul Finckel, Mr. W. P. Blair, and *Mr. Jas. T. Newton* for the Armand Co.

Before Martin, Chief Justice, Van Orsdel, Justice and Smith, Judge U. S. Court of Customs Appeals.

Van Orsdel, *J.:*

The trade-marks in interference are substantially the same consisting of the picture of a girl in

similar-style dress, slightly differing in color. The goods on which the marks are claimed to have been used by the respective parties are cosmetics, including face powders, talcum powders, creams, lip sticks, preparations for the hair, etc. The Armand Company established prior use of the design in interference.

The Examiner of Trade-Mark Interferences decided in favor of the Armand Company, his decision was affirmed by the Commissioner, and the case is here on appeal.

There is no dispute as to the facts. It is contended by counsel for appellant that no legal trade-mark use has been made by the Armand Company of its mark, for the reason that the mark was never affixed, attached, or applied to any goods which were sold and passed into the customer's possession. The mark was labeled "The Armand Girl." The picture was affixed to a box containing powder or cold cream and attached to a block of wood, which stood on the counter where the goods were displayed for sale. This combination, picture, box, and block, was not sold or in any way conveyed to a customer, but was retained in the store merely to attract the attention of customers to the goods. The box, attached to the block of wood and standing on the counter, contained a free sample of face powder or cold cream so that customers desiring to, might sample it. If, however, the customer should purchase a box of the goods, the package purchased would not contain the Armand Girl mark. It is urged, therefore, that the use made by appellee company was merely for advertising purposes to attract the attention of the public to the goods on sale.

It also appears that a pamphlet was issued by the Armand Company which contained on the lower right hand corner of the back cover a small picture of the Armand Girl. The front cover contained a silhouette head of a lady of the time of Louis XVI of France, which is a trade-mark of the Armand Company used on face powder, packages, and many other articles. This pamphlet it was also claimed was issued for advertising purposes.

[1] The sole question, therefore, is whether or not this constitutes a legal trade-mark use. It is settled law that the office of a trade-mark is to distinctly point out the origin or ownership of the article to which the mark is attached. It follows, therefore, that to establish a right to the registration of a trade-mark two things are necessary: That it must have been actually applied to vendible goods, and that the goods have been sold in interstate commerce. As this court said in *Battle Creek Sanitarium Company* v. *Fuller*, 1334 O. G. 1297, 30 App. D. C. 411—

> To constitute a trade-mark use, the mark must be attached or applied to the goods. *Columbia Mill Co.* v. *Alcorn*, 65 O. G. 1916, 150 U. S. 460, 464. Property in it can only be acquired by the actual application of it to goods of a certain class, so that it serves to indicate the origin of the goods; that is to say, identify them with the particular manufacturer or trader, and to distinguish them from similar goods. *United States* v. *Braun*, 39 Fed. 775. The mere advertisement of the words or symbol without application to the goods themselves is insufficient to constitute a trade-mark.

[2] The use made by the Armand Company amounts to nothing more than an attractive and effective method of advertising. The failure to affix the mark to the goods actually sold and carried away by the customer deprives it of the fundamental element entering into trade-mark use. The Commissioner, in his opinion, while conceding "the proposition that there must be a physical association of the mark with the goods," and that this proposition is supported by the authorities generally, attempts to distinguish the rule by reference to the provisions of the Trade-Mark Act of February 20, 1905, section 29, which provides in part as follows:

> A trade-mark shall be deemed to be "affixed" to an article when it is placed in any manner in or upon either the article itself or the receptacle or package or upon the envelope or other thing in, by, or with which the goods are packed or inclosed or otherwise prepared for sale of distribution.

But the statute, it will be observed, requires that the mark shall appear on the receptacle or package in which the goods are inclosed, "prepared for sale or distribution." The use made by the Armand Company falls far short of meeting this requirement. The display of the picture on the counter where the goods were for sale; or in another instance, where the exhibition consists of a "double Armand Girl supporting a box of powder, or a box of cold cream;" or in the pamphlet referred to; or where, as disclosed in the record, the Armand goods were placed on exhibition at fairs, and a girl, dressed as the Armand Girl, was on exhibition with the goods. We are of opinion that none of these, or all of these combined, constitute a trade-mark use. They were simply novel and effective methods of advertising. Nor is the suggestion of the Commissioner that the Armand goods were known to the public by the name of the Armand Girl, and that they were frequently identified as such, of importance. This identification attached to the goods does not originate from a trade-mark use, but from the methods of advertising used by the Armand Company. The identification, therefore, does not strengthen the case so far as indicating or establishing a legal trade-mark use.

The decision of the Commissioner is reversed.

Court of Appeals of the District of Columbia.

IN RE KAPLAN.

No. 2,046. Decided May 7, 1928.

PATENTABILITY—INVENTION.

Where turbine water wheels of both high and low speed were old in the art and it was also old to adjust the blades to regulate the flow of water and the degree of power in water wheels, which would not be regarded as of high speed, *Held* that there was nothing inventive in merely using or adopting the adjustable blade construction for a high speed turbine.

APPEAL from the Commissioner of Patents. Affirmed.

Mr. J. W. Hazell for Kaplan.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

VAN ORSDEL, *J.:*

This appeal is from the decision of the Commissioner of Patents denying patentability of an invention relating to an alleged improvement on high-speed water turbine wheels in which the blades are adjustable on pivots so as to vary the inlet and outlet of the water supplied by the guide wheel.

The alleged invention is expressed in a single claim as follows:

> A runner wheel for high speed turbines provided with guide vanes, said wheel comprising a plurality of angularly adjustable blades, and means to adjust said blades while the wheel is running so as to vary not only the outlet angles and passages but also the inlet angles and passages of the wheel, to correspond to variations in the supply of water and in the power required.

The reference on which the patent was denied is a patent to one Ludlow, in which a water wheel is disclosed with blades adjustable in practically the same manner as in applicant's wheel. The blades in the Ludlow wheel can be brought in such position that there is a tangential passage of water to the blade surfaces. Ludlow states that one of the objects of his invention is to regulate the capacity of the wheel—

> to suit the amount of power it is required to give out and the wheel made to work at a less power than its maximum, with the use of a proportionate amount of water only.

Turbine water wheels of high or low speed are old in the art. The means adopted for adjusting the blades to regulate the flow of water and the degree of power imparted is likewise old in the art. It is clear, we think, from the disclosure of Ludlow that he contemplated the adjustment of the blades in such position that a given volume of water would produce maximum efficiency and operation. Whatever importance he attached to his invention it is clear, we think, that he disclosed a wheel having adjustable blades capable of maintaining maximum efficiency of operation and speed of rotation with the variations in the volume of water.

We, therefore, agree with the conclusion of the Commissioner that—

> the claim does not define any structure not found in this reference (the Ludlow patent) but specifies that the runner wheel is "for high speed water turbines." While Ludlow's water wheel is not of the type now recognized as constituting a high speed turbine yet it is believed there would be nothing inventive in merely using or adopting this adjustable blade construction for a high speed turbine, a wheel which revolved at a much higher speed than would that of Ludlow.

The means vaguely disclosed by applicant for varying the supply of water is not different from that disclosed by Ludlow, and would seem, therefore, no more effective for the regulation of a particular volume than that disclosed in the prior art.

The decision of the Commissioner is affirmed.

Court of Appeals of the District of Columbia.

IN RE WILLIS.

No. 2,052. Decided May 7, 1928.

DESIGNS—PATENTABILITY.

A design for a handle for a suction cleaner *Held* not patentable, since it "presents no pleasing or ornamental effect to the eye, but is simply and plainly utilitarian."

APPEAL from the Commissioner of Patents. Affirmed.

Mr. A. L. Lawrence for Willis.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

MARTIN, *C. J.:*

The appellant, Willis, claims to be the inventor of a new type or style of handle for a suction cleaner, and he has applied for a design patent therefor. The design is thus described in the application, to wit:

> This design is characterized by a gradually tapering grip portion shaped to fit the hand and merging into an annular shoulder; said grip portion being at an angle with the lower portion of the handle, to which is attached a mounting plate along its underside.

The application was denied by concurring decisions of the Patent Office upon the ground that the design is not novel nor ornamental.

We think the application was rightly denied. A tapering grip handle substantially similar to applicant's is shown by reference to Kirby's patent, issued June 10, 1913. In *Clements* v. *Pittsburgh Electric Specialties Co.*, 294 Fed. 279, it is held that a handle with an inclined curve or straight grip is old for vacuum cleaners, and is not patentable. It is indeed well within common knowledge that such construction is old in the arts. *Towne Steering Wheel Co.* v. *Lee*, 199 Fed. 776. We think that the present design presents no pleasing or ornamental effect to the eye, but is simply and plainly utilitarian. In this particular it differs from the articles involved in the *Grigsby Case*, 55 App. D. C. 294, 339 O. G. 501, and in the *Drew Case*, *idem* 291, 339 O. G. 500.

The decision of the Commissioner of Patents is affirmed.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

1,018,502, Just & Hanaman, Manufacture of incandescent electric lamps; 1,082,933, W. D. Coolidge, Tungsten and method of making same for use as filaments of incandescent electric lamps; 1,180,159, I. Langmuir, Incandescent electric lamp; 1,423,956, Mitchell & White, Tipless incandescent lamp; 1,423,957, same, Stem-making machine, D. C. N. J. (Trenton), Doc. E 1229, *General Electric Co.* v. *Desmond Incandescent Lamp Co. et al.* Interlocutory decree May 16, 1928.

1,068,691, J. G. Moomy, Patches for rubber articles, C. C. A., 7th Cir., Doc. 3979, *J. G. Moomy* v. *G. & J. Tire Co. et al.* Affirmed June 5, 1928.

1,079,795, F. M. Naysmith, Chiropractic table; 1,269,354, 1,399,419, 1,448,477, W. G. Williams, Chiropractic operating table; 1,435,037, same, Tiltable chiropractic table, filed May 15, 1928, D. C., S. D. Iowa (Davenport), Doc. E 4098. *Williams Mfg. Co.* v. *Rival Machine Co. et al.*

1,082,933. (See 1,018,502.)

1,103,567, E. P. Cowles, Motor vehicle, appeal filed June 12, 1928, C. C. A., 7th Cir., Doc. 4051, *Overland Motor Co.* v. *Packard Motor Car Co. et al.*

1,180,159. (See 1,018,502.)

1,257,498. (See Re. 14,651.)

1,269,354. (See 1,079,795.)

1,302,733. (See Re. 14,651.)

1,307,733 (*a*), A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means, D. C. N. J. (Trenton), Doc. E 2815, *The Bassick Mfg. Co.* v. *Aluminum Screw Machine Products Co.* Injunction only Jan. 17, 1928. Same, filed June 11, 1928, D. C., S. D. N. Y., Doc. E 45/279, *The Bassick Mfg. Co.* v. *National Auto Electric Co.* Doc. E 45/280, *The Bassick Mfg. Co.* v. *M. S. Kramer et al.* Doc. E 45/281, *The Bassick Mfg. Co.* v. *Brown & Green Ignition Sales Co.* Doc. E 45/282, *The Bassick Mfg. Co.* v. *Gulotta.* Doc. E 45/283, *The Bassick Mfg. Co.* v. *D. Simon et al. (Washington Street Hardware Co.).* Doc. E 45/284, *The Bassick Mfg. Co.* v. *Miller's Brass Fitting Co., Inc.* Doc. E 45/285, *The Bassick Mfg. Co.* v. *N. Laidhold.* Doc. E 45/286, *The Bassick Mfg. Co.* v. *T. R. King,* Doc. E 45/287, *The Bassick Mfg. Co.* v. *Ajax Automatic Products Corp.* Doc. E 45/288, *The Bassick Mfg. Co.* v. *D. Schwartz et al. (Pearl Mirror Products, Inc.).* Doc. E 45/289, *The Bassick Mfg. Co.* v. *L. Kutzer et al. (L. K. Auto Ignition Sales Co.).*

1,307,733 (*b*), A. B. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means; 1,475,980, O. Zerk, Lubricating apparatus, filed June 14, 1928, D. C., S. D. N. Y., Doc. E 45/309, *The Bassick Mfg. Co.* v. *Manhattan Mirror Works, Inc.*

1,307,734. (See 1,307,733 (*a*) and (*b*).)

1,326,520. (See Re. 14,651.)

1,368,327, 1,489,881, J. F. Doolittle, Punch, filed June 6, 1928, D. C., N. D. Ohio, W. Div., Doc. E 894, *The Cleveland Steel Tool Co.* v. *The Mather Spring Co.*

1,390,145, E. J. Lees, Gear grinder; 1,462,985, C. H. Schurr, Gear-grinding apparatus; 1,651,159, same, Testing apparatus, filed June 11, 1928, D. C., N. D. Ohio, E. Div., Doc. 2602, *The Lees-Bradner Co.* v. *The National Tool Co.*

1,399,419. (See 1,079,795.)

1,423,956. (See 1,018,502.)

1,423,957. (See 1,018,502.)

1,435,037. (See 1,079,795.)

1,448,477. (See 1,079,795.)

1,451,491. (See Re. 15,824.)

1,462,985. (See 1,390,145.)

1,471,650, L. Crane, Suspension jack for gang saws, D. C., N. D. Ala. (Birmingham), Doc. 46, *F. R. Patch Mfg. Co. et al.* v. *Alabama Marble Co.* Defendants enjoined June 25, 1928.

1,475,980. (See 1,307,733 (*b*).)

1,486,746, J. Heisel, Power press, C. C. A., 7th Cir., Doc. 3937, *The Cincinnati Galvanizing Co.* v. *Marquette Tool & Mfg. Co.* Affirmed June 5, 1928.

1,489,881. (See 1,368,327.)

1,527,418, E. A. Laughlin, Method of and apparatus for hardening the surfaces of car wheels, appeal filed June 12, 1928, C. C. A., 7th Cir., Doc. 4052, *American Steel Foundries* v. *E. A. Laughlin et al.*

1,541,883. (See Re. 16,014.)

1,550,794. (See 1,593,406.)

1,565,595, W. O. Snelling, Current-rectifying device; 1,649,741, 1,649,742, S. Ruben, Electric-current rectifier, filed June 12, 1928, D. C., S. D. N. Y., Doc. E 45/299. *Elkon Works, Inc., et al.* v. *Sterling Mfg. Co.*

1,593,406, V. Himmer, Loud speaker; 1,550,794, P. D. Fay, Magneto telephone, D. C., S. D. N. Y., Doc. E 44/167, *V. Himmer* v. *G. R. P. Products Co., Inc.* Decree pro confesso sustaining patents and granting injunction June 6, 1928.

1,601,575, L. C. Marshall, Piston packing, filed Apr. 30, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E N-85-J, *The Simplex Piston Ring Co. of America, Inc.* v. *R. Roether et al.*

1,649,741. (See 1,565,595.)

1,649,742. (See 1,565,595.)

1,651,159. (See 1,390,145.)

1,674,293, L. Marx, Traffic-simulating toy, filed June 30, 1928, D. C., S. D. N. Y., Doc. E 45/398, *L. Marx & Co. et al.* v. *H. Katz & Co., Inc.*

T. M. 228,348, T. M. 234,193, General Citrus Corp., Beverage, filed May 16, 1928, D. C. Ariz. (Phoenix), Doc. E 179, *General Citrus Corp.* v. *M. & W. Root Beer Stores, Inc., et al.*

T. M. 234,193. (See T. M. 228,348.)

Re. 14,651, E. H. Lanier, Pastry-making machine; 1,257,498, Lanier & Driesbach, Pastry molding and making apparatus; 1,302,733, W. W. Turnbull, Machine for making ice-cream cones; 1,326,520, A. McLaren, Ice-cream cone and package containing same, filed Apr. 26, 1928, D. C. Mass., Doc. E 2960, *McLaren Consolidated Cone Corp.* v. *The Preferred Baking Co.*

Re. 15,824, 1,451,491, S. H. Calkins, Pattern and guide strip, D. C., S. D. N. Y., Doc. E 45/21, *The Traitel Marble Co.* v. *Galassi Co., Inc., et al.* Re. 15,824 sustained and infringed; dismissed as to 1,451,491 June 6, 1928.

Re. 16,014, E. E. Wemp, Clutch; 1,541,883, same, Clutch disk, filed June 18, 1928, D. C., E. D. Mich., S. Div., Doc. 2767, *Long Mfg. Co.* v. *The Borg & Back Co.* Doc. 2766. *Long Mfg. Co.* v. *Hupp Motor Car Corp.*

Des. 60,740, L. Siderman, Stocking; Des. 70,307, W. E. Zander, same, filed Apr. 17, 1928, D. C. N. J. (Trenton), Doc. E 3249, *Schletter & Zander, Inc.,* v. *Excello Hosiery Mills.*

Des. 70,307. (See Des. 60,740.)

Des. 72,989, P. Cricchio, Tray; Des. 73,068, same, Candlestick, filed June 7, 1928, D. C., S. D. N. Y., Doc. E 45/260, *Sun Rise Lamp Mfg. Co., Inc.,* v. *Aljac Lighting Fixture Co., Inc.*

Des. 73,068. (See Des. 72,989.)

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,501,532, N. F. Egler, Furnace, decided July 19, 1928, claims 1, 6, and 8.

Pat. 1,616,175, B. Bogoslowsky, Machine for making match cards, decided August 10, 1928, claims 1 to 11, inclusive, 17, and 18.

Pat. 1,639,597, W. Dubilier, Condenser, decided August 6, 1928, claim 1.

Final decision in interference has been rendered against the following trade-mark:

T. M. 167,441, Frozen and chilled mutton, lamb, and beef, and tallow derived from livestock for edible purposes, The New Zealand Refrigerating Company, Limited, of Christchurch, New Zealand. Registered May 1, 1923. Decided July 10, 1928.

Disclaimer.

1,664,772.—*Robert Louis Daine,* New York, N. Y. METHOD AND MEANS FOR FEEDING TAPE. Patent dated April 3, 1928. Disclaimer filed August 11, 1928, by the patentee, assignee, *Trans-Lux Daylight Picture Screen Corporation,* consenting.

Hereby enters this disclaimer to claims Nos. 1-57, inclusive, of said patent.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 28, 1928.

[VOL. 373. No. 4.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 268,351. CLOVER SPLINT COAL COMPANY, Pittsburgh, Pa. Filed June 20, 1928.

BLACK CLOVER

For Coal.
Claims use since May 24, 1928.

Ser. No. 268,352. CLOVER SPLINT COAL COMPANY, Pittsburgh, Pa. Filed June 20, 1928.

GREEN CLOVER

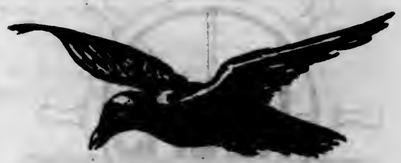
For Coal.
Claims use since May 24, 1928.

Ser. No. 268,353. CLOVER SPLINT COAL COMPANY, Pittsburgh, Pa. Filed June 20, 1928.

RED CLOVER

For Coal.
Claims use since May 24, 1928.

Ser. No. 268,699. PENN PRODUCTS CORPORATION, Aspers, Pa. Filed June 26, 1928.



Blackbird

For Clay.
Claims use since Feb. 5, 1928.

CLASS 2.

Receptacles.

Ser. No. 235,254. CROWN WILLAMETTE PAPER COMPANY, San Francisco, Calif. Filed July 28, 1926.

CROWN

For Bags, Containers, and Merchandise Envelopes Made of Sulphite and/or Sulphate Paper or Paperboard for Use by Grocers, Fruit Vendors, Department Stores, Etc., Also Paper Bags and Paper Receptacles for Special Purposes.
Claims use since January, 1890.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 239,966. CHEMISCHE FABRIK VON HEYDEN, A. G., Radebeul, near Dresden, Germany, assignor to Heyden Chemical Corporation, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 12, 1926.

Aktivin

For Mixtures of Soap and Na-p. Toluenesulfochloramide, Mixtures of Soap with Sodium Carbonate and Na-p. Toluenesulfochloramide, Mixtures of Soap with Sodium Bicarbonate and Na-p. Toluenesulfochloramide, Mixtures of Soap with Sodium Silicate and Na-p. Toluenesulfochloramide.
Claims use since Oct. 23, 1923.

Ser. No. 258,870. JOHN C. P. HELM, doing business as Helm Laboratories, New Orleans, La. Filed Dec. 13, 1927.

HELM'S

For Metal Polishes, Sweeping Compounds, and Pine-Oil Cleansers Containing Pine Oil, Alkali, and Rosin, Not a Soap.
Claims use since Sept. 24, 1923.

Ser. No. 260,749. REDMANOL CHEMICAL PRODUCTS COMPANY, New York, N. Y. Filed Jan. 27, 1928.

REDMANOL

For Abrasive Grinding Wheels and Abrasive Cutting Wheels.
Claims use since Sept. 15, 1919.

Ser. No. 261,988. PURITY CHEMICAL PRODUCTS CO., Santa Rosa, Calif. Filed Feb. 20, 1928.

LITTLE VALET

For Liquid Dry Cleaner (Carbontetrachlorid).
Claims use since Jan. 1, 1928.

Ser. No. 262,171. THE M & H COMPANY, Cleveland, Ohio. Filed Feb. 24, 1928.

Savol

When printed on the box, the mark usually appears in white letters on a blue background; but the color is not deemed essential.
For Soaps.
Claims use since about Mar. 12, 1925.

Ser. No. 263,395. ROLLAND FRANCIS HATFIELD, Sr., doing business as Ro-Hel-Gen Products Co., Not Inc., Cicero, Ill. Filed Mar. 19, 1928.

RO-HEL-GEN

For General Household Cleaner Consisting of 99% Pure Trisodium Phosphate.
Claims use since Oct. 1, 1925.

Ser. No. 268,272. CORINNA INCORPORATED, doing business as Frezo Laboratories, New York, N. Y. Filed June 19, 1928.

Frezo

For Shaving Cream of Saponaceous Nature.
Claims use since Nov. 15, 1927.

Ser. No. 268,927. ANNETTE R. JENNINGS, doing business as Annette's Perfect Cleanser Co., Boston, Mass. Filed June 30, 1928.

ANNETTE'S PERFECT CLEANSER

No claim is made to the words "Perfect Cleanser" apart from the mark shown.
For Dry-Cleaning Composition for Fabrics, Furs, and Felts.
Claims use since on or about Apr. 22, 1927.

Ser. No. 268,967. COMMUTATOR CLEANSER CO., Brooklyn, N. Y. Filed July 2, 1928.

APOL

For Cleaning Compound for Metals.
Claims use since about May 1, 1928.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 221,913. E. MYERS LYE CO., St. Louis, Mo. Filed Oct. 17, 1925.

Lightning

For Lye or Caustic Soda, Which Latter is the Technical Name for Lye.
Claims use since Feb. 20, 1903.

Ser. No. 231,212. WILLIAM JOHN TREVASKIS, doing business under the name of Salo-Sedatus Chemical Company, Fruitland Park, Fla. Filed May 6, 1926.

SALO-SEDATUS

For Antiseptic, Antipyretic, Diuretic, and Anodyne Preparations.
Claims use since 1900.

Ser. No. 246,417. LAGNO LABORATORIES, INC., Lockport, Ill. Filed Mar. 26, 1927.

LAGNOX

For Compound for the Treatment of Coccidiosis and Other Diseases of the Skin and Bowels of Poultry, Hogs, and Other Animals.
Claims use since Sept. 1, 1926.

Ser. No. 255,621. ACME LABORATORIES, INC., New York, N. Y. Filed Oct. 5, 1927.

RioRita

For Skin Creams, Nail Polish, and Remover.
Claims use since May 18, 1927.

Ser. No. 256,014. S. A. R. M. SOCIETÁ ANONIMA RITROVATI MEDICINALI, Rome, Italy. Filed Oct. 12, 1927.

UROCLASIO UROCLASIO UROCLASIO

dep. UROCLASIO dep.
PREPARATO DAL PROF. ALBERTO SCALA
SARM ROMA
CONTIENE: MISTO DI COMPLESSI COLLOIDALI DEL BIOSSIDO DI SILICIO COL POTASSIO (GR. 1:2%) E COL CESIO (GR. 0.01%) DISPERSI E RESI ATTIVI ED EFFICIENTI COI RAGGI X
ASSOLUTAMENTE INNOCUO
USO
5 gocce in poca acqua ogni mattina a digiuno per decadi alternate: una di cura e una di riposo
Soc. An. Ritrovati Medicinali S.A.R.M. Roma Via Trapani, 19

UROCLASIO UROCLASIO UROCLASIO

For Urociasio, a Medicinal Preparation for All Kinds of Uricemics.
No claim being made to "dep. Preparato Dal Prof. Alberto Scala, Roma. Contiene: Misto Di Complessi Colloidali Dei Biossido Di Silicio Col Potassio (gr. 1:2%) e Col Cesio (gr. 0.01%). Dispersi e Resi Attivi ed Efficienti Coi Raggi X. Assolutamente Innocuo. Uso 5 gocce in poca acqua ogni mattina a digiuno per decadi alternate: una di cura e una di riposo. Roma, Via Trapani, 19." A translation thereof being "(deposited Rome. Prepared by Prof. Alberto Scala. Contains mixture of colloidal complexes of silicum dioxide with potassium (gr. 1:2%) and with cesium (gr. 0.01%). Dispersed and made active and efficient with X-rays. Absolutely innocuous. Use 5 drops in a little water each morning on an empty stomach for alternate decades: one of cure and one of rest, Rome, 19 Via Trapani)," apart from the mark shown in the drawing.
Claims use since February, 1927.

Ser. No. 256,936. CHARLES M. HUDSON, New York, N. Y., assignor to Hudson & Company, Inc., New York, N. Y., a Corporation of New Jersey. Filed Nov. 2, 1927.

LIFT

For Preparation for Removing Superfluous Hair.
Claims use since Sept. 27, 1927.

Ser. No. 257,040. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed Nov. 3, 1927.

Calophen

For Laxative Preparation Having a Cholagogue Action as Well as Stimulating the Hepatic Functions.
Claims use since February, 1909.

Ser. No. 259,183. L. N. RENAULT & SONS, INC., Egg Harbor City, N. J. Filed Dec. 20, 1927. Under 10-year proviso.

RENAULT

For General Tonic Having a Wine Base.
Claims use since February, 1870.

Ser. No. 259,622. CHRISTOPHER H. CONLEY, doing business as Conley's Bird Supply House, Fort Wayne, Ind. Filed Jan. 3, 1928.

SONGBAK

For Tonic for Birds and a Preparation for Loss of Voice, Hoarseness, Colds, and Shedding of Feathers Out of Season.
Claims use since Mar. 1, 1925.

Ser. No. 260,925. CHARLES A. WALLERSTEIN, doing business as Master Products Mfg. Co., Brooklyn, N. Y. Filed Jan. 30, 1928.

MASTER

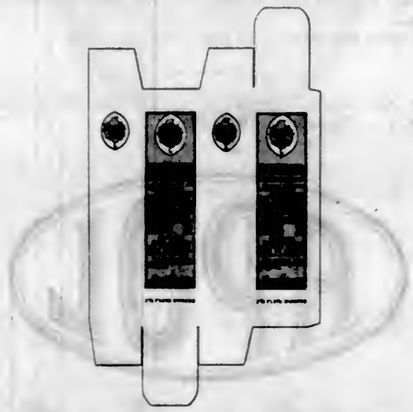
For Preparation for Preventing Corrosion of Metal, and Especially of Battery Terminals.
Claims use since Nov. 29, 1927.

Ser. No. 261,589. REED & CARNRICK, Jersey City, N. J. Filed Feb. 11, 1928.

Endacoids

For Medicinal Products Derived from Animal Sources—Namely, Desiccated Gland Substances, Gland Extracts, Hormones, and Enzymes, for Use in the Treatment of Functional Indigestion, Gastritis, Dyspepsia, Duodenal Catarrh, Vomiting of Pregnancy, Loss of Appetite, Heartburn, Gastralgia, Neurasthenia, Malnutrition, Debility, Acute Infection, Nephritis, Uremia, Malfunctioning or Disfunctioning of the Ovaries and the Testicles and Related Glands, Constipation, Intestinal Indigestion, Postoperative Treatment, Gallstones, to Restore Pancreative Activity, Rheumatism, Gout, Also General Tonics.
Claims use since Feb. 2, 1928.

Ser. No. 263,510. THE OMEGA CHEMICAL COMPANY, New York, N. Y. Filed Mar. 20, 1928.



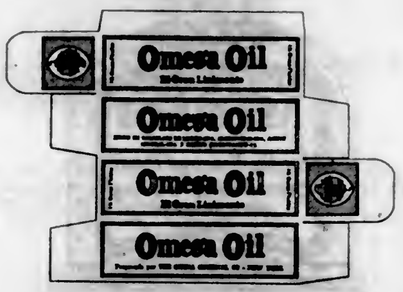
The representation of the carton and all wording, with exception of the word "Omega," the facsimile signature "Higinio Espinosa," and applicant's name being disclaimed apart from the mark shown on the drawing. The drawing is lined to indicate the color green, which is claimed as a feature of the mark.
For Preparation for the Treatment of Rheumatism, Lumbago, Neuralgia, Swellings, Inflammation, Common Sore Throat, Cold in Chest, Tender Feet, Sprains, Bruises, and Similar Ailments.
Claims use since April, 1923.

Ser. No. 263,824. SAMUEL I. HOLLINGER, doing business as Hollinger Remedy Co., Elkhart, Ind. Filed Mar. 27, 1928.



For Medicine for the Treatment of Stomach, Liver, Kidney, and Gall Bladder Affections.
Claims use since Jan. 1, 1927.

Ser. No. 263,887. THE OMEGA CHEMICAL COMPANY, New York, N. Y. Filed Mar. 28, 1928.



The repesentation of the carton and all wording with the exception of the word "Omega" and applicant's name being disclaimed apart from the mark shown in the drawing. The drawing is lined to indicate the color green, which is claimed as a feature of the mark.
For Preparation for the Treatment of Rheumatism, Lumbago, Neuralgia, Swellings, Inflammation, Common Sore Throat, Cold in Chest, Tender Feet, Sprains, Bruises, and Similar Ailments.
Claims use since July, 1920.

Ser. No. 264,037. ARTHUR H. METCALF, doing business as M-Roid Co., New Haven, Conn. Filed Mar. 30, 1928.

UNGUENTUM
M-ROID

No claim is made to the word "Unguentum" apart from the mark shown. The lining on the drawing indicates the colors red and blue.
For Ointment for Varicose Veins, Piles, and Fissures.
Claims use since on or about Mar. 1, 1928.

Ser. No. 264,493. MELVIN JAMES MOLPHUS, West Palm Beach, Fla. Filed Apr. 7, 1928.



The portrait appearing on the drawing is that of Annie Molphus, the wife of applicant. No claim is made to the word "Products."
For Preparation for Growing Hair.
Claims use since Apr. 2, 1928.

Ser. No. 264,891. LABORATOIRE DE PHARMACOLOGIE, INC., New York, N. Y. Filed Apr. 16, 1928.

BOLDORHÉINE

For Preparation for the Treatment of the Liver.
Claim use since Apr. 5, 1928.

Ser. No. 265,422. WILLIAM R. BRYAN, Altoona, Pa. Filed Apr. 26, 1928.



The trade-mark consists in the portrait and facsimile signature of Dr. M. M. Bryan, deceased.
For Preparation for Treating Blood Poisoning and Skin Eruptions, Preparation for Treating Goitre and Other Glandular and Tissue Swellings and Enlargements.
Claims use since Jan. 21, 1928.

Ser. No. 265,963. WADE S. HERNDON, Wilbanks, N. C. Filed May 5, 1928.



The picture forming the trade-mark is that of applicant.
For Liquid Compound for the Treatment of Rheumatism of the Joints and Muscles, Gout, Neuralgia, and Pains of a Rheumatic Nature, a Nonfluid Mineral Mixture to be Used as a General Tonic for Hogs and to Eliminate Kidney and Intestinal Worms and to Tone up the Liver, Nonfluid Compound for Treatment of Poultry, Acting as a Tonic and as a Treatment for White Diarrhea, Chicken Cholera, and Limber Neck.
Claims use since Feb. 28, 1928.

Ser. No. 266,403. OCTAVE GONZÁLEZ ROUBA, Paris, France. Filed May 14, 1928.

GOMINA ARGENTINE

The word "Argentine" is disclaimed apart from the mark shown.
For Pomades.
Claims use since Jan. 1, 1927.

Ser. No. 266,595. THE JANSZEN COMPANY, Cincinnati, Ohio. Filed May 18, 1928.

DOT

For Salt, Baking Powder, and Sal Soda.
Claims use since Feb. 2, 1928.

Ser. No. 266,764. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed May 21, 1928.



No claim is made to the representation of the bottle per se or to the printed matter other than the words "Mistol" and "Stanco Incorporated."
For Nose and Throat Spray.
Claims use since Apr. 9, 1928.

Ser. No. 266,918. JOHN F. DEARMITT, Florence, Ariz. Filed May 24, 1928.



The portrait of the individual as shown in the drawing is a picture of the registrant, Mr. John F. Dearmitt. The descriptive letters "T. B." are disclaimed separate and apart from the mark shown in the drawing.
For Preparation for the Treatment of Coughs, Colds, and Pulmonary Diseases.
Claims use since Mar. 5, 1928.

Ser. No. 266,960. RALPH B. WAITE, doing business as The Antidolor Mfg. Co., Springville, N. Y. Filed May 24, 1928.

Soketol

For Medicament for the Relief of Afterpains and Soreness.
Claims use since July 1, 1927.

Ser. No. 267,593. LA SALLE MEDICINE COMPANY, Los Angeles, Calif. Filed June 6, 1928.

LIFE

For Salts Used in the Treatment of Disorders of the Stomach, Liver, and Intestines.
Claims use since Sept. 1, 1927.

Ser. No. 267,800. RED SPOT PAINT & VARNISH CO., also doing business as Evansville Paint & Varnish Co., Evansville, Ind. Filed June 9, 1928.

RED SPOT

The drawing is lined for red.
For Fabric Dyes and Glass Frosting.
Claims use since June 1, 1912.

Ser. No. 267,833. JACOP CARNESECCA, doing business as Safe Wash Bleach Co., San Jose, Calif. Filed June 11, 1928.



For Bleaching Compound.
Claims use since Apr. 1, 1927.

Ser. No. 267,972. LIQUID VENEER CORPORATION, Buffalo, N. Y. Filed June 13, 1928.

Purgo

For Liquids for Cleaning Automobile, Steam, or Hot-Water Radiators.
Claims use since Mar. 31, 1928.

Ser. No. 267,995. HENRY J. PRESENGER, doing business as Klo-Ro-San Company, Detroit, Mich. Filed June 13, 1928.

PRESTO
KLO-RO-SAN

For Deodorant Compounds.
Claims use since Sept. 2, 1927.

Ser. No. 268,009. W. & H. WALKER, INC., doing business as Health Laboratories, Pittsburgh, Pa. Filed June 13, 1928.

ACIDINE

For Medicines for Treating Acidosis, Indigestion, Constipation, Excess of Acids in the Stomach, Blood, and Urine, and Ailments of the Digestive Tract and Like Disorders.
Claims use since May 25, 1928.

Ser. No. 268,130. ALINE SERE DE RIVIERES, Paris, France. Filed June 16, 1928.

STHA

For Perfumes, Toilet Vinegar, Hair Lotion, Massage Cream, Skin Cream, Beautifying Cream, Toilet Water, Tooth Paste, Liquid Dentifrice, Bath Salts, Cleansing Cream, Face Powder, Face Lotion, Beautifying Liquid.
Claims use since Jan. 19, 1928.

Ser. No. 268,280. HERCULES GLUE COMPANY, San Francisco, Calif. Filed June 19, 1928.

FLUXIT

For Spreaders for Combination with Insecticides.
Claims use since about February, 1927.

Ser. No. 268,330. THE WEBER MEDICAL TEA COMPANY, Brooklyn, N. Y. Filed June 19, 1928. Under 10-year proviso.

WEBER'S

For Laxative Preparations for the Treatment of Constipation, and Attending Ills, Such as Loss of Appetite, Headache, Disposition to Colds, or Hemorrhoidal Conditions, Intestinal Worms, and Cough Due to Colds.
Claims use since 1865.

Ser. No. 268,331. THE WEBER MEDICAL TEA COMPANY, Brooklyn, N. Y. Filed June 19, 1928.



The trade-mark consists merely in the facsimile of the home and portrait of the founder of the business, Dr. E. Weber, deceased.
For Herb Teas and Laxative Preparations.
Claims use since 1865.

Ser. No. 268,407. WELLINGTON PROCESS COMPANY, INC., Baltimore, Md. Filed June 20, 1928.

MORVO

For Tanning Compounds.
Claims use since Feb. 1, 1927.

Ser. No. 268,498. H. D. KAMPF INC., New York, N. Y. Filed June 22, 1928.

BLITZ

For Chemical Preparation for Removing Rust.
Claims use since Jan. 1, 1928.

Ser. No. 268,515. J. SCHANZENBACH & CO., INC., New York, N. Y. Filed June 22, 1928.

SOLIDINE

For Brilliantine and Dressings for the Hair.
Claims use since Nov. 10, 1926.

Ser. No. 268,680. CONTINENTAL PRODUCTS CORPORATION, Los Angeles, Calif. Filed June 26, 1928.

CON-TEX

For Cleanser, Sterilizer, Deodorant, and Disinfectant.
Claims use since Mar. 1, 1928.

Ser. No. 268,705. ERNST SCHAUFLER, Reutlingen, Germany. Filed June 26, 1928.

KREML

For Hair Tonic.
Claims use since about 1911.

Ser. No. 268,729. CHEMISCHE FABRIK VON HEYDEN, A. G., Radebeul, near Dresden, Germany. Filed June 27, 1928.

Aktivin

For Sodium-p. Toluenesulfochloramide, Potassium-p. Toluenesulfochloramide, Mixtures of Sodium Chloride with Sodium-p. Toluenesulfochloramide, Mixtures of Sodium Sulfate with Sodium-p. Toluenesulfochloramide, Mixtures of Magnesium Sulfate and Sodium-p. Toluenesulfochloramide, Mixtures of Sodium Nitrate and Sodium-p. Toluenesulfochloramide, Mixtures of Potassium Nitrate and Sodium-p. Toluenesulfochloramide, Mixtures of Sodium Hydrate and Sodium-p. Toluenesulfochloramide, Mixtures of Sodium Carbonate with Sodium-p. Toluenesulfochloramide, Mixtures of Potassium Hydrate and Sodium-p. Toluenesulfochloramide, Mixtures of Potassium Carbonate and Sodium-p. Toluenesulfochloramide, Mixtures of Sodium Diphosphate with Sodium-p. Toluenesulfochloramide, Mixtures of Sodium Triphosphate and Sodium-p. Toluenesulfochloramide, Mixtures of Starch with Sodium-p. Toluenesulfochloramide, Mixtures of Vegetable Gum with Sodium-p. Toluenesulfochloramide, Mixtures of Sodium Silicate and Sodium-p. Toluenesulfochloramide.
Claims use since Aug. 20, 1919.

Ser. No. 268,745. H. CHRIS OLTMAN, doing business as Spearo Manufacturing Company, Joplin, Mo. Filed June 27, 1928.



For Dentifrice, Tooth Powder, and Preparation for the Treatment of Pyorrhea.
Claims use since Mar. 20, 1928.

Ser. No. 268,769. CAVENDISH CHEMICAL CORP., New York, N. Y. Filed June 28, 1928.

Atocin

For Preparation for Treatment of Rheumatism, Neuralgia, Gout, and Sciatica.
Claims use since about March, 1925.

Ser. No. 268,794. LA LYSINE FORNARI INTERNATIONAL AMERICAN CORPORATION, Boston, Mass. Filed June 28, 1928.

La Lasine

For Antiseptic Preparation for External and Internal Use.
Claims use since Jan. 15, 1928.

Ser. No. 268,799. THE ODORONO COMPANY, Cincinnati, Ohio. Filed June 28, 1928.

NO. 3

For Deodorants.
Claims use since May 1, 1928.

Ser. No. 268,801. PACIFIC CHEMICAL COMPANY, Los Angeles, Calif. Filed June 28, 1928.

MOTH-PAK

For Moth Repellent.
Claims use since November, 1927.

Ser. No. 268,822. E. R. SQUIBB & SONS, New York, N. Y. Filed June 28, 1928.

IPRALGEN

For Analgeso Hypnotic.
Claims use since June 23, 1928.

Ser. No. 268,839. AMERICAN NICOTINE COMPANY, Henderson, Ky. Filed June 29, 1928.



For Nicotine Dusting Powder.
Claims use since Jan. 30, 1928.

Ser. No. 268,857. FAIRCHILD BROS. & FOSTER, New York, N. Y. Filed June 29, 1928.

PANCENTRATE

For Concentrate of the Fresh Pancreas Gland, of the Water-Soluble Constituents, Freed from Connective Tissue, Associated Lipoid and Protein, and Designed for Use in Pancreatic Deficiency.
Claims use since June 12, 1928.

Ser. No. 268,865. HARRY HEROLD, doing business as Herold Drug Co., Petaluma, Calif. Filed June 29, 1928.

SOLVINE

For Preparation for the Removal of Callous and Corns.
Claims use since Apr. 19, 1928.

Ser. No. 268,869. KEYSTONE LABORATORIES, Memphis, Tenn. Filed June 29, 1928.

Darbalx

For Perfumes, Toilet Water, Face Creams, Face Powder, and Face Lotions.
Claims use since Mar. 1, 1928.

Ser. No. 268,889. ROGER & GALLET, New York, N. Y. Filed June 29, 1928.

BALMYSHAV

For After-Shaving Lotions.
Claims use since Apr. 23, 1928.

Ser. No. 268,890. ROGER & GALLET, New York, N. Y. Filed June 29, 1928.

RAZORSOOTHE

For After-Shaving Lotions.
Claims use since Apr. 23, 1928.

Ser. No. 268,891. ROGER & GALLET, New York, N. Y. Filed June 29, 1928.

BARBARINE

For After-Shaving Lotions.
Claims use since Apr. 23, 1928.

Ser. No. 268,935. PEOPLES DRUG STORES, INC., Washington, D. C. Filed June 30, 1928.

P.D.S.

For Insecticide, More Particularly Bedbug Destroyer.
Claims use since 1919.

Ser. No. 269,098. P. DE LA MONTANYA, doing business as Mount Rouge Company, San Francisco, Calif. Filed July 5, 1928.

MOUNT ROUGE

For Medicinal Tonic Having a Wine Base.
Claims use since June 1, 1928.

Ser. No. 269,108. THE FRIES & FRIES CO., doing business as Golden Mist Laboratories and Golden Mist Parfumerie, Cincinnati, Ohio. Filed July 5, 1928.

GOLDEN MIST

The gold color representation is not a material feature of applicant's mark.

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Lemon Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Cocoanut-Oil Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Depilatories, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Feb. 25, 1928.

Ser. No. 269,229. MARCEL FRANCK, INC., New York, N. Y. Filed July 7, 1928.

le SAB

For Powder to be Rubbed on Stockings in Order to Increase Their Life.
Claims use since December, 1927.

Ser. No. 269,230. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed July 7, 1928.

Golden Dawn

For Perfumes.
Claims use since Apr. 23, 1928.

Ser. No. 269,268. SUPERIOR PRODUCTS COMPANY, Dallas, Tex. Filed July 7, 1928.

SUE PREÉ

For Face Powder and Brilliantine.
Claims use since May 30, 1928.

Ser. No. 269,279. CHR. BERTRAM, Stendal, Germany. Filed July 9, 1928.

FRISCOL

For Food Preservatives.
Claims use since Apr. 19, 1928.

Ser. No. 269,290. ISABEY-PARIS, INC., Wilmington, Del., and New York, N. Y. Filed July 9, 1928.

Sourire fleuri

For Perfumes, Toilet Waters, Face Powder, Talcum Powder, Bath Powder, Colognes, Face Creams, Lotions, and Rouges.
Claims use since June 1, 1927.

Ser. No. 269,291. ISABEY-PARIS, INC., Wilmington, Del., and New York, N. Y. Filed July 9, 1928.

Rayon Vert

For Perfumes, Toilet Waters, Face Powder, Talcum Powder, Bath Powder, Colognes, Face Creams, Lotions, and Rouges.
Claims use since Aug. 1, 1927.

Ser. No. 269,292. PAUL BURKE JACOBS, doing business as Jaynard Cié, New York, N. Y. Filed July 9, 1928.

Conservatoré

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since July 5, 1928.

Ser. No. 269,347. NORMAN C. DRAKE, doing business as Dr. Timm's Medicine Co., Rockville Center, N. Y. Filed July 10, 1928.

TIMM

For Tonic for Improving the Condition of the Hair of Human Bodies.
Claims use since July 1 1927.

Ser. No. 269,348. LILLIAN N. FISHEL, doing business as Kwickrid Remedy Company, New York, N. Y. Filed July 10, 1928.

Kwickrid

For Headache Remedies.
Claims use since May 4, 1928.

Ser. No. 269,392. HERBERT A. CLEMENS, doing business as Clemens Chemical Company, Fort Wayne, Ind. Filed July 11, 1928.

CLEMENS

For Stomach Bitters.
Claims use since July 30, 1927.

Ser. No. 269,400. THE FARASTAN COMPANY, Ardmore, Pa. Filed July 11, 1928.

FARODINE

For Stable Solution of Alkali Hypoiodite in Organic Medium for Oral, Intramuscular, Intravenous, and External Use.
Claims use since July 9, 1928.

Ser. No. 269,449. JOSEPH DYMNICKI, doing business as Dym-Nosmel, New London, Conn. Filed July 12, 1928.



For Liquid Deodorant.
Claims use since May 2, 1928.

Ser. No. 269,917. SAMUEL S. ROSEN, doing business as Guarantee Exterminating Company, New York, N. Y. Filed July 20, 1928.



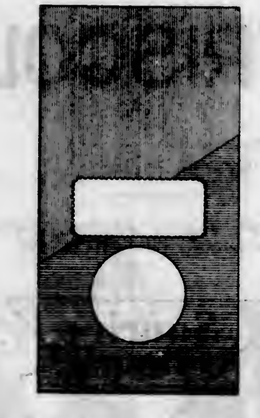
For Nuisance-Preventing Liquid Spray.
Claims use since July, 1927.

Ser. No. 269,923. THE SYDNEY ROSS CO., Newark, N. J. Filed July 20, 1928.

Cutisana

For Toilet Preparations—Namely, Cold Creams and Face Creams.
Claims use since 1915.

Ser. No. 269,928. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed July 21, 1928.



The drawing is lined for colors, the vertical lines indicating red, the horizontal lines blue, and the portion of the drawing on which no lining appears is intended to indicate white.
For Insecticides.
Claims use since May 12, 1926.

CLASS 7.

Cordage.

Ser. No. 268,864. THE GRADY-TRAVERS COMPANY, New York, N. Y. Filed June 29, 1928.



No claim is made to the descriptive matter "Test" and "Manila Rope" apart from the mark shown.
For Rope.
Claims use since May, 1927.

CLASS 9.

Explosives, Firearms, Equipments, and Projectiles.

Ser. No. 269,327. SLOAN'S SPORTING GOODS CO. INC., New York, N. Y. Filed July 9, 1928.

CHARLES DALY

For Shotguns and Rifles.
Claims use since May 10, 1928.

CLASS 10.

Fertilizers.

Ser. No. 260,389. INTERNATIONAL AGRICULTURAL CORPORATION, New York, N. Y. Filed Jan. 20, 1928.

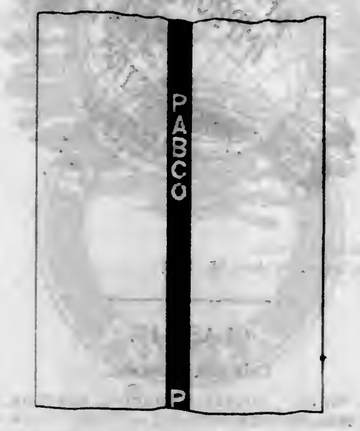


Applicant disclaims the words "Trade-Mark" apart from the mark as shown.
For Fertilizers.
Claims use since 1909.

CLASS 12.

Construction Materials.

Ser. No. 262,676. THE PARAFFINE COMPANIES, INC., San Francisco, Calif. Filed Mar. 6, 1928.



The trade-mark comprises a red stripe on which the word "Pabco" is shown and preferably extending the entire length of the roll of material. The drawing is lined to indicate the color red.
For Building Paper, Insulating Paper, Dampcourse, and Roofing All of Which Comprise a Body of Fibrous Material in Sheet Form Which May or May Not be Coated and/or Saturated with a Bituminous or Asphaltic Compound.
Claims use since Sept. 29, 1927.

Ser. No. 264,726. THE LILLY TREE SURGEONS, INC., Rye, N. Y. Filed Apr. 12, 1928.

TRE-WUD

For Tree-Cavity Filler in the Nature of Cement.
Claims use since February, 1927.

Ser. No. 268,093. GRUEBY FAIENCE AND TILE COMPANY, Boston, Mass., and Philadelphia, Pa. Filed June 15, 1928. Under 10-year proviso.

GRUEBY

For Floor Tiles, Wall Tiles, Decorative Construction Tiles, Tiles for Industrial Construction, Tile Door-Frames, and Tiles Known as "Ceramics."
Claims use since 1888.

Ser. No. 268,582. COAST CEDAR SHINGLE COMPANY, Seattle, Wash. Filed June 25, 1928.

SOVEREIGNS

For Wooden Shingles.
Claims use since June 1, 1927.

Ser. No. 268,583. COAST CEDAR SHINGLE COMPANY, Seattle, Wash. Filed June 25, 1928.

SULTANS

For Wooden Shingles.
Claims use since June 1, 1927.

Ser. No. 268,584. COAST CEDAR SHINGLE COMPANY, Seattle, Wash. Filed June 25, 1928.

REGENTS

For Wooden Shingles.
Claims use since June 1, 1927.

Ser. No. 268,782. GLEESONITE ROAD CORP., Chicago, Ill. Filed June 28, 1928.

Gleesonite

For Bituminous Paving Material.
Claims use since May 9, 1928.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 260,696. PARA RUBBER COMPANY, Newark, N. J. Filed Jan. 26, 1928.

Para-Tone

For Water-Repelling Shower Curtains.
Claims use since May 15, 1927.

Ser. No. 267,799. PUROX COMPANY, Denver, Colo. Filed June 9, 1928.

METAL MASTER

The word "Metal" is disclaimed apart from the mark shown on the drawing.
For Gas-Pressure Regulators.
Claims use since Dec. 23, 1927.

Ser. No. 269,588. KEELER BRASS COMPANY, Grand Rapids, Mich. Filed July 14, 1928.

Gold Tip

For Screws.
Claims use since June 15, 1928.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 265,143. CYCLOPS STEEL COMPANY, INC., Titusville, Pa. Filed Apr. 20, 1928.

No. 17

For Noncorrosive, Nonmagnetic Alloy-Metal Steels.
Claims use since Sept. 21, 1919.

Ser. No. 265,144. CYCLOPS STEEL COMPANY, INC., Titusville, Pa. Filed Apr. 20, 1928.

K-L-DIE

No claim is made to the word "Die."
For Chromium-Tungsten Die Steels.
Claims use since Mar. 29, 1927.

Ser. No. 265,145. CYCLOPS STEEL COMPANY, INC., Titusville, Pa. Filed Apr. 20, 1928.

K-RUSTLESS

No claim is made to the word "Rustless."
For Nonrusting, Nonstaining Alloy Steels.
Claims use since Nov. 18, 1926.

Ser. No. 265,146. CYCLOPS STEEL COMPANY, INC., Titusville, Pa. Filed Apr. 20, 1928.

K-M-DIE

No claim is made to the word "Die."
For Chromium-Tungsten Die Steels.
Claims use since Mar. 29, 1927.

Ser. No. 265,947. JOHN W. BURGE, Crichton, Ala. Filed May 5, 1928. Under 10-year proviso.



For Babbitt Metal.
Claims use since Apr. 15, 1887.

CLASS 15.

Oils and Greases.

Ser. No. 267,157. TIFFANY & COMPANY, New York, N. Y. Filed May 28, 1928.



For Candles.
Claims use since 1900.

Ser. No. 267,803. RICHFIELD OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed June 9, 1928.



All wording appearing on the drawing, with the exception of the words "Richfield, Richlube, Partners in" and the name of the applicant is hereby disclaimed apart from the mark shown in the drawing.
For Petroleum Products—Namely, Gasoline and Lubricants.
Claims use since Apr. 1, 1917.

Ser. No. 267,804. RICHFIELD OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed June 9, 1928.



The word "Power" is hereby disclaimed apart from the mark as shown in the drawing.
For Petroleum Products—Namely, Gasoline and Lubricants.
Claims use since Apr. 1, 1917.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 266,507. ARMSTRONG CORK COMPANY, Pittsburgh, Pa. Filed May 17, 1928.

ACCOLIN

For Preparation in the Nature of a Lacquer for Surfacing Linoleum, Felt-Base, and Similar Hard-Surface Floor Coverings.
Claims use since May 7, 1928.

Ser. No. 266,796. FRANK W. DUNNE CO., Oakland, Calif. Filed May 22, 1928.

808 ENAMEL

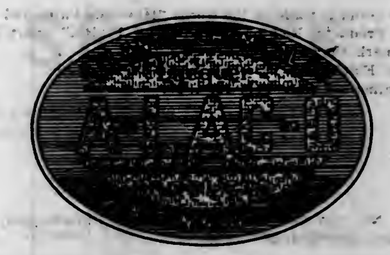
The descriptive word "Enamel" is disclaimed apart from the mark as shown.
For Enamel Paint.
Claims use since Mar. 15, 1925.

Ser. No. 267,063. LABORATORY CHEMICALS, INC., Albany, N. Y. Filed May 26, 1928.



The term "Lacquer Brite" not being claimed apart from the mark shown in the drawing.
For Polish for Painted, Varnished, and Lacquered Surfaces, Such as the Bodies and Other Parts of Automobiles.
Claims use since May 15, 1928.

Ser. No. 268,133. ATLANTIC CHEMICAL COMPANY, Irvington, N. J. Filed June 16, 1928.



No claim is made to the words "Lac" and "Lacquer Products, Irvington, New Jersey" apart from the mark shown in the drawing, the conventional color lining appearing on the drawing representing blue and yellow.
For Lacquer, Paint Enamels, Surfacers and Primers, and Clear, No-Tarnish, and Wood-Finishing Lacquers.
Claims use since about May 16, 1927.

Ser. No. 268,983. HILO VARNISH CORPORATION, New York, N. Y. Filed July 2, 1928.

SPEED-UP

For Black Baking Japans, Paint Enamels, and Varnishes.
Claims use since Aug. 25, 1927.

Ser. No. 269,002. CALVIN ROLLINS, doing business as The Old Trusty Company, Clay Center, Nebr. Filed July 2, 1928.

OLD TRUSTY



For Ready-Mixed Paints and Varnishes.
Claims use since Jan. 1, 1928.

Ser. No. 269,328. THE SMITH-ALSOP PAINT AND VARNISH COMPANY, INC., Terre Haute, Ind. Filed July 9, 1928.

SMITH-ALSOP PAINT

RICHTONE

FLAT FINISH

No claim is made to the words "Hi-Grade Paint and Varnish Products, Richtone," and "Flat Finish," apart from the mark shown on the drawing.
For Flat-Finish Paint for Inside Walls.
Claims use since Feb. 12, 1910.

CLASS 17.

Tobacco Products.

Ser. No. 267,359. MICHAEL GREEN, Philadelphia, Pa. Filed June 2, 1928.



The portrait shown in the drawing is that of Frances Green, daughter and ward of Harry M. Green.
For Cigars.
Claims use since Dec. 14, 1927.

Ser. No. 269,670. DUDLEY W. LESTER, doing business as The Lester Tobacco Company, Chicago, Ill. Filed July 16, 1928.

SPORTSMAN

For Cigarettes.
Claims use since May 2, 1928.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 259,733. THE KUNKEL MANUFACTURING COMPANY, Hart, Mich. Filed Jan. 5, 1928.



No claim is made to the representation of the goods apart from the mark as shown.
For Automobile Heaters Heated by Heat Gases from the Engine.
Claims use since Sept. 22, 1927.

Ser. No. 266,550. RICHARD J. MURPHY, Washington, D. C. Filed May 17, 1928.



Applicant disclaims apart from the mark shown all words on the drawing except the notation "Word of Honor."
For Used Automobiles.
Claims use since Mar. 6,1928.

CLASS 21.

Electrical Apparatus, Machines and Supplies.

Ser. No. 259,415. NATIONAL ACCESSORIES CORPORATION, Los Angeles, Calif. Filed Dec. 28, 1927.

NACLITE

For Electrical Spotlights.
Claims use since about May 4, 1926.

Ser. No. 265,457. WIZ MANUFACTURING CO., New York, N. Y. Filed Apr. 26, 1928.



For Radio Receiving Sets and Parts Thereof.
Claims use since Feb. 21, 1927.

Ser. No. 267,152. TIFFANY & COMPANY, New York, N. Y. Filed May 28, 1928.



For Electric Lamps, Candelabra and Candlesticks, Electroliers, and Electric Pocket Lights.
Claims use since 1900.

Ser. No. 268,328. TRICO PRODUCTS CORPORATION, Buffalo, N. Y. Filed June 19, 1928.

TRICO

CAMERON ANTENNA

The words "Cameron" and "Antenna" are disclaimed apart from the mark shown.
For Radio Antennæ.
Claims use since on or about May 23, 1928.

Ser. No. 268,329. TRICO PRODUCTS CORPORATION, Buffalo, N. Y. Filed June 19, 1928.

TRICO

For Radio Antennæ.
Claims use since on or about May 23, 1928.

Ser. No. 268,481. CHICAGO PNEUMATIC TOOL COMPANY, New York, N. Y. Filed June 22, 1928.

UNILOY

For Electrical Apparatus and Machines, Particularly Rotors and Armatures Used in Its Electrically-Operated Machines, Including Portable or Hand Operated Electrical Tools.
Claims use since Apr. 7, 1928.

Ser. No. 268,787. INDIANA LAMP CORPORATION, Connersville, Ind. Filed June 28, 1928.

SEELITE

For Combination Vehicle Stop and Tail Lamps.
Claims use since May 22, 1928.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 266,303. EDWARD CHAMNEY CUSACK, New York, N. Y. Filed May 12, 1928.

CRAZY CAT PUZZLES



Exclusive use of the word "Puzzles" as shown in the drawing is disclaimed.
For Puzzles and Games Having Elements Intended to be Moved Within a Box or Container or Over the Face of a Card.
Claims use since May 1, 1928.

Ser. No. 267,153. TIFFANY & COMPANY, New York, N. Y. Filed May 28, 1928.



For Playing Cards and Chips and Cribbage Boards.
Claims use since 1900.

Ser. No. 267,418. JOHN F. HOWARTH, Colorado Springs and Gunnison, Colo. Filed June 4, 1928. Under 10-year proviso.

HOWARTH'S

For Bait Hooks, Gut Leaders, and Trout Flies.
Claims use since about 1879.

Ser. No. 267,871. GEORGE F. SPIEL, Chicago, Ill. Filed June 11, 1928.



The word "Top" and the phrase "Thrown Like an Inshoot" are disclaimed except in association with the rest of the mark.
For Top.
Claims use since May 31, 1928.

Ser. No. 268,565. STERN BROTHERS, New York, N. Y. Filed June 23, 1928.



For Baseballs, Baseball Gloves, Baseball Bats, Baseball Masks, Boxing Gloves, Children's Bicycles, Tricycles, Velocipedes, Scooters, Playing Cards, Card Games, Toy Chariots, Toy Carts, Toy Perambulators, Sleds, Dolls, Dolls' Blankets, Dolls' Carriage Outfit Sets and Pillows, Fishing Lines, Fishing Bait, Golf Balls, Golf Bags, Golf Clubs, Tennis Rackets, Tennis Balls, Tennis Nets, Ice Skates, Roller Skates, Toy Aeroplanes, Toy Automobiles, Toy Wagons, Toy Furniture, and Mechanical Toys.
Claims use since May 28, 1928.

Ser. No. 268,566. STERN BROTHERS, New York, N. Y. Filed June 23, 1928.

STERNCREST

For Baseballs, Baseball Gloves, Baseball Bats, Baseball Masks, Boxing Gloves, Children's Bicycles, Tricycles, Velocipedes, Scooters, Playing Cards, Card Games, Toy Chariots, Toy Carts, Toy Perambulators, Sleds, Dolls, Dolls' Blankets, Dolls' Carriage Outfit Sets and Pillows, Fishing Lines, Fishing Bait, Golf Balls, Golf Bags, Golf Clubs, Tennis Rackets, Tennis Balls, Tennis Nets, Ice Skates, Roller Skates, Toy Aeroplanes, Toy Automobiles, Toy Wagons, Toy Furniture, and Mechanical Toys.
Claims use since May 28, 1928.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 235,777. THE IMPERIAL TRUST FOR THE ENCOURAGEMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, London, England. Filed Aug. 10, 1926.



For Metal-Working Taps, Surface Plates, Leading Screws.
Claims use since Jan. 26, 1907.

Ser. No. 258,049. THOMPSON PRODUCTS, INC., Cleveland, Ohio. Filed Nov. 25, 1927.

THOMPSON CNS

For Pump Shafts and Poppet Valves for Internal-Combustion Engines.
Claims use since July 12, 1926.

Ser. No. 262,423. STANDARD STEEL AND BEARINGS INCORPORATED, Plainville, Conn. Filed Feb. 29, 1928.

Lubri-Seal

For Ball Bearings.
Claims use since Aug. 8, 1925.

Ser. No. 263,002. J. A. HENCKELS, Solingen, Germany. Filed Mar. 12, 1928.

Twinworks

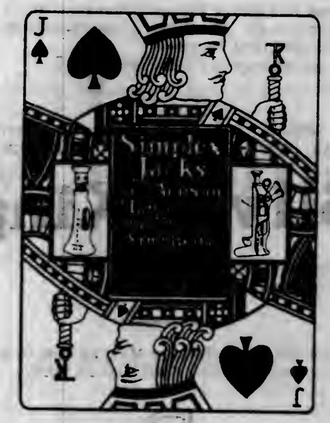
For Pocketknives Made of Base Metal—Namely, Penknives, Jackknives, Pruning Knives Budding Knives, Grafting Knives, Hunting Knives, Office Knives, Knife Erasers, Letter Openers, Camp Companions; Scissors—Namely, Ladies' Scissors, Embroidery Scissors, Lace Scissors, Buttonhole Scissors, Folding Scissors, Wire Scissors, Cigar Scissors, Grape or Flower Scissors, Lamp Scissors; Shears—Namely, Paper Shears, Tailor Shears, Horse Shears, Bandage Shears, Pruning Shears, Poultry Shears, Barber Shears; Razors, Safety Razors, Safety-Razor Blades; Knives Made of Base Metal—Namely, Cook Knives, Bone Knives, Bread Knives, Lard Knives, Kitchen Knives, Lemon Knives, Grapefruit Knives, Bean Knives, Scallop Knives, Fish Knives, Butcher Knives, Wood-Carving Knives, Baker Knives, Shoe Knives, Linoleum Knives, Feather-Curling Knives, Nursery Knives, Furriers' Knives, Fruit Knives, Cigarmakers' Knives, Bookbinders' Knives, Paper-Box-Makers' Knives, Table Knives, Carving Knives, Velvet-Cutting Knives, Dessert Knives; Forks Made of Base Metal—Namely, Kitchen Forks, Cold-Meat Forks, Table Forks, Dessert Forks, Carving Forks; Butcher Steels, Carving Steels, Can Openers, Cleavers, Nutcrackers, Knife Sharpeners, Corkscrews, Spatulas, Hair Clippers, Cake Turners, Cigar Cutters, Scissor Sets, Razor Sets, Wood-Carving Tools.
Claims use since 1731.

Ser. No. 267,650. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed June 7, 1928.

Gillette

Applicant claims the following registrations: No. 56,921, issued Oct. 23, 1906; No. 70,856; issued Oct. 13, 1908; No. 134,317, issued Aug. 24, 1920; No. 154,950, issued May 16, 1922.
For Cutters with Replaceable Blades—Namely, Office Knives, Chisel Knives, Twine Cutters, and Pile Cutters—and Blades for All of Said Cutters.
Claims use since March, 1922, on pile cutters and blades for pile cutters; since October, 1927, on office knives and blades for office knives; since February, 1922, on chisel knives and blades therefor; and since June, 1927, on twine cutters and blades for twine cutters.

Ser. No. 268,063. TEMPLETON, KENLY & CO., LIMITED, Chicago, Ill. Filed June 14, 1928.



Applicant claims ownership of registered Certificate No. 40,032, issued May 31, 1903. The two representations of the goods shown in the drawing and the words appearing therein excepting "Aces" and "Simplex" are hereby disclaimed except in connection with the trade-mark as shown.
For Lifting Jacks of Both the Screw and Lever Type.
Claims use since on or about Dec. 28, 1927.

Ser. No. 268,600. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed June 25, 1928.



King C. Gillette

Applicant claims registered Certificates No. 56,921, issued Oct. 23, 1906; No. 70,856, issued Oct. 13, 1908; No. 134,317, issued Aug. 24, 1920; No. 154,950, issued May 16, 1922. The trade-mark comprises the portrait and signature of King G. Gillette.
For Cutters with Replaceable Blades—Namely, Office Knives, Chisel Knives, Twine Cutter, and Pile Cutters—and Blades for All of Said Cutters.
Claims use since March, 1922, as to pile cutters and blades for pile cutters; since October, 1927, as to office knives and blades for office knives; since February, 1922, as to chisel knives and blades thereof; and since June, 1927, as to twine cutters and blades for twine cutters.

Ser. No. 268,639. D. B. SMITH & COMPANY, INC., Utica, N. Y. Filed June 25, 1928.

SMILAC

For Hand and Power Operated Sprayers, Spray Pumps, Pumps, Spray Guns, Air Brushes, and Atomizers for Domestic and Industrial Purposes.
Claims use since on or about Sept. 1, 1927.

Ser. No. 268,894. THE U. S. HYDRAULIC DEVELOPMENT COMPANY, Cleveland, Ohio. Filed June 29, 1928.

Silver-King

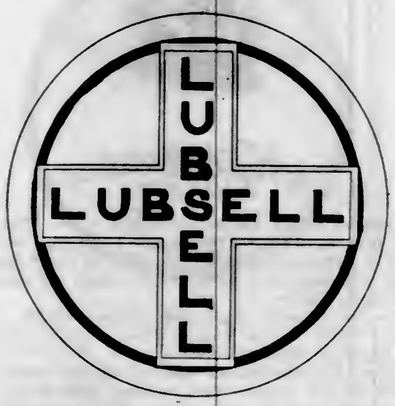
For Hydraulic Jacks.
Claims use since Apr. 23, 1928.

Ser. No. 268,897. THE WESTON MANUFACTURING & SUPPLY COMPANY, Denver, Colo. Filed June 29, 1928.



For Device for Branding, Tatooing, or Otherwise Marking Cattle, Fowls, and Other Animals.
Claims use since Apr. 26, 1928.

Ser. No. 269,249. OIL PRODUCTS APPLIANCE COMPANY, Maywood, Ill. Filed July 7, 1928.



For Portable Oil-Pump Tank with Battery of Containers.
Claims use since June 12, 1928.

CLASS 24.

Laundry Appliances and Machines.

Ser. No. 266,353. ISAAC BRAITHWAITE & SON, ENGINEERS, LIMITED, Kendal, England. Filed May 14, 1928.

IBIS

For Machines for Washing Garments and Fabrics, Wringing and Mangling Machines, and Garment-Pressing Machines.
Claims use since Jan. 20, 1896.

Ser. No. 269,541. WONDER IRONER MANUFACTURING CORPORATION, Cleveland, Ohio. Filed July 12, 1928.

Wonder

For Ironing Machines.
Claims use since July, 1924.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 260,308. ANSCO PHOTOPRODUCTS, INC., Binghamton, N. Y., assignor to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed Jan. 19, 1928.



The exclusive use of the word "Camera" is disclaimed.
For Photographic Cameras.
Claims use since Jan. 1, 1928.

Ser. No. 260,927. ANSCO PHOTOPRODUCTS, INC., Binghamton, N. Y., assignor to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed Jan. 31, 1928.

VANITY

For Photographic Cameras.
Claims use since April, 1925.

Ser. No. 260,928. ANSCO PHOTOPRODUCTS, INC., Binghamton, N. Y., assignor to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed Jan. 31, 1928.

ANSCOMATIC

Applicant claims the following registrations: No. 41,689 issued Dec. 22, 1903; No. 41,995, issued Feb. 2, 1904; No. 98,456, issued July 21, 1914; No. 102,779, issued Feb. 23, 1915.
For Photographic Cameras.
Claims use since 1925.

Ser. No. 260,930. ANSCO PHOTOPRODUCTS, INC., Binghamton, N. Y., assignor to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed Jan. 31, 1928.



The lining of the drawing is for shading only.
For Photographic Cameras.
Claims use since 1924.

Ser. No. 267,394. SOCIÉTÉ CARBOX, La Courneuve, France. Filed June 2, 1928.



For Apparatus for Delivering Measured Quantities of Liquid.
Claims use since Mar. 1, 1925.

Ser. No. 267,395. SOCIÉTÉ HARDOLL, ETABLISSEMENTS HARIVEAU, DOLIMIER ET RENÉ PORTE & CIE RÉUNIS, Levallois-Perret, France. Filed June 2, 1928.

"HARDOLL"

For Apparatus for Delivering Measured Quantities of Liquid.
Claims use since March 4, 1922.

Ser. No. 268,960. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y. Filed July 2, 1928.

MULTI-SITE

For Ophthalmic Lenses.
Claims use since June 2, 1928.

CLASS 27.

Horological Instruments.

Ser. No. 266,169. EMILE GEISER, La Chaux-de-Fonds, Switzerland. Filed May 9, 1928. Under 10-year proviso.

Charles Robert

For Watch and Clock Springs, Hairsprings, and Hands, Clocks and Watches and Parts Thereof—viz, Ratchets, Bridges, Barrels, Balance-Staves, Pallet Staves, Stems, Screws, and Jewels for Pivots.
Claims use since 1780.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 263,382. THE EXECUTIVE COUNCIL OF THE ALPHA DELTA PHI FRATERNITY, New York, N. Y. Filed Mar. 19, 1928.

ΑΔΦ

For Fraternity Pins and Pendants All Made of or Plated With Precious Metal.
Claims use since 1832.

Ser. No. 265,556. NATIONAL FRATERNITY OF ALPHA CHI RHO, New York, N. Y. Filed Apr. 28, 1928.

AXP

For Fraternity Badges, Lapel Buttons; Scarf, Lapel, and Breast Pins; Cuff Links, Tie Clasps, Charms, Finger Rings, Belt Buckles, and Ornamental Shields, All of Precious Metal.
Claims use since March, 1927.

Ser. No. 267,097. TIFFANY & COMPANY, New York, N. Y. Filed May 26, 1928.



For Jewelry for Personal Wear and Use, Not Including Watches; Precious Stones, Flat and Hollow Ware Made of or Plated with Precious Metal, Table Cutlery of Precious or Semiprecious Metal, Bodkins, Book Marks, Bottle Openers, Candelabra, Candle Shades, Candlesticks, Cardcases, Cigar and Cigarette Boxes and Lighters, Napkin Rings, Combs, and Hairpins, Button Hooks and Shoe Horns, All Made of or Plated with Precious Metal.
Claims use since February, 1900.

Ser. No. 268,165. LOUIS STERN COMPANY, Providence, R. I. Filed June 16, 1928.

LUSTERWITE

For Key Rings, Chain Fasteners, Snap Fasteners, Spring Rings, Tie Clasps, Lapel Buttons, Brooches, and Chain Bars, All of Which are Made of or Plated with Precious Metals; Finger Rings, Bracelets, Chains for Personal Adornment, Cuff Buttons, Cuff Links, Charms, Fobs, and Pendants.
Claims use since June 1, 1928.

Ser. No. 268,630. PHI MU FRATERNITY, Chicago, Ill. Filed June 25, 1928.

ΦM

For Fraternity Badges, Lapel Buttons, Scarf, Lapel, and Breast Pins; Cuff Links, Tie Clasps, Charms, Finger Rings, Belt Buckles, and Ornamental Shields All of Precious Metal.
Claims use since Sept. 1, 1916.

Ser. No. 268,637. SEMUEL SEMENOFF, New York, N. Y. Filed June 25, 1928.

SEM

For Manufactured Jewelry—Namely, Finger Rings and Brooches.
Claims use since June 20, 1928.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 268,326. F. TETTER & SONS, Newark, N. J. Filed June 19, 1928.

MOTAS



ESTRELLA

For Powder Puffs.
Claims use since May, 1927.

Ser. No. 269,436. UNITED SHOE MACHINERY CORPORATION, Boston, Mass. Filed July 11, 1928.

CLIMAX

For Power Brushes.
Claims use since about 1902.

CLASS 30.

Crockery, Earthenware, and Porcelain.

Ser. No. 257,065. HEINRICH & WINTERLING INC., New York, N. Y. Filed Nov. 4, 1927.

SENTA

For China.
Claims use since Oct. 1, 1927.

CLASS 31.

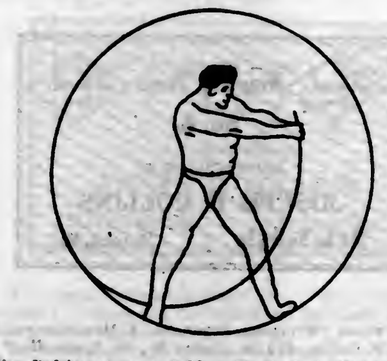
Filters and Refrigerators.

Ser. No. 268,815. ROCKFORD STEEL FURNITURE COMPANY, Rockford, Ill. Filed June 28, 1928.

ROCKSTEEL

For Refrigerators, and More Particularly Refrigerators of Steel Construction.
Claims use since Dec. 5, 1927.

Ser. No. 268,816. ROCKFORD STEEL FURNITURE COMPANY, Rockford, Ill. Filed June 28, 1928.



For Refrigerators, and More Particularly Refrigerators of Steel Construction.
Claims use since Dec. 5, 1927.

Ser. No. 268,919. EXCELSIOR MOTOR MFG. & SUPPLY CO., Chicago, Ill. Filed June 30, 1928.

EXCELSIOR

For Household and Commercial Refrigerating Machines.
Claims use since Feb. 8, 1927.

CLASS 33.

Glassware.

Ser. No. 259,034. UNITED STATES GLASS COMPANY, Pittsburgh, Pa. Filed Dec. 16, 1927.

TIFFINware

No claim is made to the word "Ware" apart from the mark shown.
For Glass Tableware.
Claims use since November, 1927.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 266,374. THE HOTSTREAM HEATER COMPANY, Cleveland, Ohio. Filed May 14, 1928.

Hotstream

The words "Heats in a Hurry" are disclaimed apart from the mark shown.
For Gas and Oil Water Heaters.
Claims use since April, 1915.

Ser. No. 267,406. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio. Filed June 4, 1928.

SPEE DEE

For Gas, Oil and Vapor Hot-Water Storage and Heating Tanks and Those Adapted for Heating by Thermosiphon or Coils; Gas, Oil, and Vapor Water Heaters and Thermostatic Valves Furnished as Parts of Heating Devices.
Claims use since May 4, 1928.

CLASS 36.

Musical Instruments and Supplies.

Ser. No. 267,162. TIFFANY & COMPANY, New York, N. Y. Filed May 28, 1928.



For Music Boxes.
Claims use since 1900.

Ser. No. 268,321. SPEAK-O-PHONE INCORPORATED, New York, N. Y. Filed June 19, 1928.

SPEAK-O-PHONE

No claim is made to the representation of a phonograph record apart from the mark shown.
For Metallic Disc Phonograph Records.
Claims use since May 1, 1928.

CLASS 37.

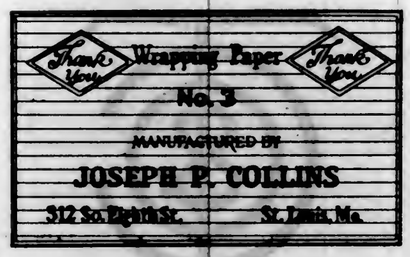
Paper and Stationery.

Ser. No. 235,253. CROWN WILLAMETTE PAPER COMPANY, San Francisco, Calif. Filed July 28, 1926. Under 10-year proviso.

CROWN

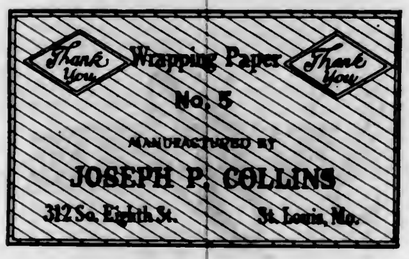
For Papers Consisting of Sulphite, Kraft, Ground Wood, Manila, and Express Wrapping Paper for Wrapping and Packing Merchandise of Commerce; Bag and Envelope Papers for Manufacturing Bags, Envelopes, and Paper Containers; Fruit Paper for Wrapping and Packing Citrus and Deciduous Fruits, Tray Paper for Drying Raisins and Other Fruits, Newspaper for Printing and Publishing.
Claims use since January, 1888.

Ser. No. 255,897. JOSEPH P. COLLINS, St. Louis, Mo. Filed Oct. 11, 1927.



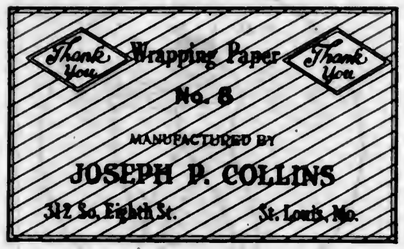
The words "Wrapping Paper No. 3 Manufactured by Joseph P. Collins, 312 So. Eighth St., St. Louis, Mo.," as shown on the mark are disclaimed.
For Wrapping Paper in Sheets and Rolls.
Claims use since Feb. 20, 1924.

Ser. No. 255,898. JOSEPH P. COLLINS, St. Louis, Mo. Filed Oct. 11, 1927.



The words "Wrapping Paper No. 5 Manufactured by Joseph P. Collins, 312 So. Eighth St., St. Louis, Mo.," as shown on the mark are disclaimed.
For Wrapping Paper in Sheets and Rolls.
Claims use since Feb. 20, 1924.

Ser. No. 255,899. JOSEPH P. COLLINS, St. Louis, Mo. Filed Oct. 11, 1927.



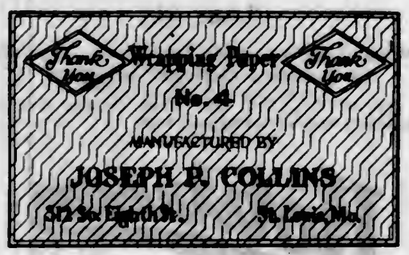
The words "Wrapping Paper No. 8 Manufactured by Joseph P. Collins, 312 So. Eighth St., St. Louis, Mo.," as shown on the mark are disclaimed.
For Wrapping Paper in Sheets and Rolls.
Claims use since Feb. 20, 1924.

Ser. No. 255,900. JOSEPH P. COLLINS, St. Louis, Mo. Filed Oct. 11, 1927.



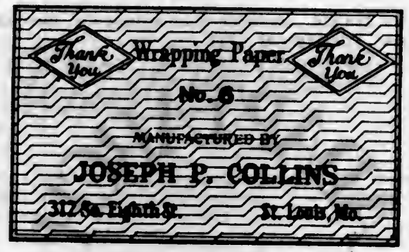
The words "Wrapping Paper No. 7 Manufactured by Joseph P. Collins, 312 So. Eighth St., St. Louis, Mo.," as shown on the mark are disclaimed.
For Wrapping Paper in Sheets and Rolls.
Claims use since Feb. 20, 1924.

Ser. No. 255,901. JOSEPH P. COLLINS, St. Louis, Mo. Filed Oct. 11, 1927.



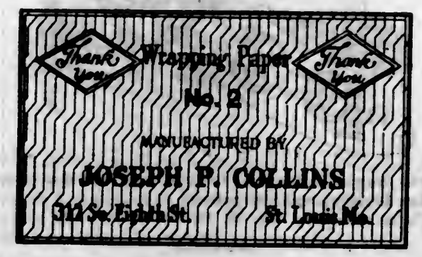
The words "Wrapping Paper No. 4 Manufactured by Joseph P. Collins, 312 So. Eighth St., St. Louis, Mo.," as shown on the mark are disclaimed.
For Wrapping Paper in Sheets and Rolls.
Claims use since Feb. 20, 1924.

Ser. No. 255,902. JOSEPH P. COLLINS, St. Louis, Mo. Filed Oct. 11, 1927.



The words "Wrapping Paper No. 6 Manufactured by Joseph P. Collins, 312 So. Eighth St., St. Louis, Mo.," as shown on the mark are disclaimed.
For Wrapping Paper in Sheets and Rolls.
Claims use since Feb. 20, 1924.

Ser. No. 255,903. JOSEPH P. COLLINS, St. Louis, Mo. Filed Oct. 11, 1927.



The words "Wrapping Paper No. 2 Manufactured by Joseph P. Collins, 312 So. Eighth St., St. Louis, Mo.," as shown on the mark are disclaimed.
For Wrapping Paper in Sheets and Rolls.
Claims use since Feb. 20, 1924.

Ser. No. 259,624. DITTO, INCORPORATED, Chicago, Ill. Filed Jan. 3, 1928.

Ditto



Hi-Speed B

For Paper for Stationery Use for Business Forms Printed with Standard Business Ink and also Printed with Duplicating-Machine or Hectograph Ink and for Use in Running Duplicating-Machine Copies from Typewritten Originals and Duplicating-Machine or Hectograph Originals.
Claims use since June 27, 1927.

Ser. No. 266,769. UNITED PAPER COMPANY, East Braintree, Mass. Filed May 21, 1928.

FARMTEX

For Durable Specially-Treated Waterproof Paper Mulch That Achieves the Scientific Application of Heat and Moisture and Used for Cultivating Purposes.
Claims use since Apr. 15, 1928.

Ser. No. 267,155. TIFFANY & COMPANY, New York, N. Y. Filed May 28, 1928.



For Writing Paper, Mailing Envelopes, Partly Printed or Engraved Dance Orders, Partly Printed or Engraved Diplomas, Memorandum Books, Guest Books, Log Books, Writing Pads, Blank Books, Inkstands, Metallic Pen Points, Penholders, Pen Stands, Penracks, Pencils, Desk Sets, Desk Calendars, Book Marks, Letter Openers, Paper Weights, and Seals for Use in Making Impressions in Wax or Paper.
Claims use since 1900.

Ser. No. 267,907. VELDOWN COMPANY, INC., New York, N. Y. Filed June 12, 1928.

VELVO BAND

The word "Band" is disclaimed apart from the mark shown.
For Barbers' Sanitary Paper Neckbands.
Claims use since October, 1927.

Ser. No. 269,195. MEGARGEE BROS. INC., Scranton, Pa. Filed July 6, 1928.



For Toilet Paper.
Claims use since Oct. 1, 1902

Ser. No. 269,418. LOUIS MORRISON, doing business as Morrison Fountain Pen Co., New York, N. Y. Filed July 11, 1928.

ROXY

For Fountain Pens and Pencils.
Claims use since about Apr. 11, 1928.

CLASS 38.

Prints and Publications.

Ser. No. 264,138. BROWN & BIGELOW, St. Paul, Minn. Filed Apr. 2, 1928.

BUSINESS BUILDERS

For Wall Calendars, Wall Mailing Cards, and Greeting Cards.
Claims use since March, 1903.

Ser. No. 267,159. TIFFANY & COMPANY, New York, N. Y. Filed May 28, 1928.



For Printed Books and Visiting Cards, Announcements, Invitations, Menus, Greeting Cards, Certificates, Completely Printed or Engraved Dance Orders and Diplomas, Labels Upon Which Book Plates Have Been Printed or Engraved, Programs, and Wall Calendars.
Claims use since 1900.

Ser. No. 268,096. BENJAMIN FRANKLIN HAMMOND, Wichita, Kans. Filed June 15, 1928.

"HOOTS AND QUACKS"

The lining on the drawing is merely for the purpose of shading.
For Cartoons.
Claims use since Jan. 16, 1926.

CLASS 39.

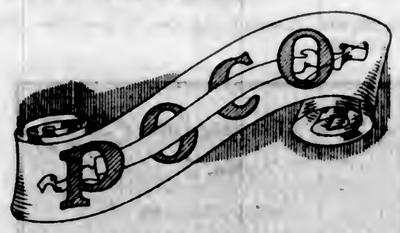
Clothing.

Ser. No. 244,694. HEYWOOD BOOT & SHOE CO., Worcester, Mass. Filed Feb. 21, 1927.

ADAPTARCH

For Leather or Fabric Boots and Shoes.
Claims use since Feb. 15, 1927.

Ser. No. 247,568. PHOENIX OVERGAITER CO. INC., New York, N. Y. Filed Apr. 16, 1927.



The drawing is lined for the purpose of shading only.
For Leggings and Overgaiters.
Claims use since Mar. 29, 1927.

Ser. No. 255,420. MEN'S WEAR SERVICE CORPORATION, Chicago, Ill. Filed Sept. 29, 1927.



The drawing is lined to represent the colors orange, blue, and black. However, the colors are not claimed as an essential feature of the mark.
For Silk, Wool, or Cotton Mufflers, Hosiery, Pajamas, Bedroom Slippers, Robes, Sweaters, Vests, Jackets, Hats, Gloves, Dress Shirts, Work Shirts, and Undershirts, All for Men's Use.
Claims use since Feb. 1, 1927.

Ser. No. 264,139. BROWN-DUNKIN DRY GOODS COMPANY, Tulsa, Okla. Filed Apr. 2, 1928.

Charlotte Jane

For Children's Wash Dresses, Children's Silk Dresses, Children's Hats, and Children's Coats.
Claims use since Sept. 22, 1924.

Ser. No. 264,207. SIMPLEX SHOE MANUFACTURING COMPANY, Milwaukee, Wis. Filed Apr. 2, 1928.

STRONGHEART



No claim is made to the word "Shoes" appearing on the drawing.
For Boots and Shoes of Leather, Rubber, Fabric, or Combinations Thereof.
Claims use since Dec. 1, 1927.

Ser. No. 264,364. HELEN DAVIS, doing business as The Helen Davis Cap Co., Topeka, Kans. Filed Apr. 5, 1928.



Applicant disclaims all right to the exclusive use of the words "Helen Davis" and "Caps" except in the particular arrangement and association in which they appear with the rest of the mark as shown on drawing.
For Caps to be Used by Women and Children.
Claims use since Aug. 1, 1927.

Ser. No. 264,665. WEILL & HARTMANN, New York, N. Y. Filed Apr. 10, 1928.

ROSERAY

For Ladies' Wearing Apparel—Namely, Dresses, Coats, Hosiery, Hats and Caps, and Underwear of Knitted and Textile Fabrics.
Claims use since Mar. 10, 1928.

Ser. No. 265,164. PUBLIX THEATRES CORPORATION, New York, N. Y. Filed Apr. 20, 1928.

PUBLIX

For Men's and Women's Uniforms and Caps.
Claims use since December, 1925.

Ser. No. 265,299. THE SELBY SHOE CO., Portsmouth, Ohio. Filed Apr. 23, 1928.



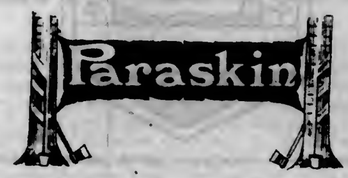
The use of the word "Shoe" apart from the words "Tru-Poise" is specifically disclaimed.
For Boots and Shoes Made of Leather and Textile Fabric.
Claims use since Mar. 17, 1928.

Ser. No. 265,732. R. H. MACY & CO., INC., New York, N. Y. Filed May 1, 1928.

CORR-O-PEDIC

For Women's Leather and Fabric Shoes.
Claims use since Mar. 29, 1928.

Ser. No. 265,834. THE EXPRESS RUBBER CO., LIMITED, London, England. Filed May 3, 1928.



For Waterproof Coats and Waterproof Capes for Men and Women.
Claims use since September, 1922.

Ser. No. 266,643. WILLIAM S. BRANDT, doing business as Smart Fashion Dress Co., also Smart Dress Co., New York, N. Y. Filed May 19, 1928.



For Ladies' and Misses' Dresses.
Claims use since Apr. 1, 1928.

Ser. No. 266,729. GIVEN BROS. SHOE CO., El Paso, Tex. Filed May 21, 1928.



For Shoes Constructed of Leather, Rubber, Fabric, Fiber, and of Combinations Thereof.
Claims use since Jan. 1, 1928.

Ser. No. 266,792. CRESCENT HAT AND CAP COMPANY, New York, N. Y. Filed May 22, 1928.



The lining on the drawing is for the purpose of shading only.
For Men's and Boys' Hats and Caps, Including Felt Hats and Straw Hats.
Claims use since Feb. 2, 1927.

Ser. No. 267,408. THE CROFUT & KNAPP CO., South Norwalk, Conn. Filed June 4, 1928.



No claim is made to the exclusive right to the use of the word "Hat" apart from the mark shown.
For Hats for Men.
Claims use since about 1910.

Ser. No. 267,421. HARRY A. HYMAN, doing business as United Shirt Distributors, Detroit, Mich. Filed June 4, 1928.



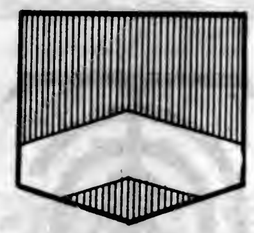
The lining appearing in the drawing is for the purpose of shading only.
For Men's Caps, Men's Outer Shirts of All Kinds, Including Dress, Work, and Negligee; Men's Neckties, Including Four-in-Hand and Bow Ties, of Cut Silk, Fibre Silk, and Knitted Silk, and Including Bow Ties Already Tied or to Tie; Men's Garters, Arm Bands, and Underwear, Hosiery, Suspenders, Pajamas, Bath Robes, and Men's Leather and Fabric Gloves.
Claims use since early in the year 1923.

Ser. No. 267,500. I. MICHELSOHN & SON, New York, N. Y. Filed June 5, 1928.

Ming-Toi

For Hosiery.
Claims use since Jan. 15, 1928.

Ser. No. 267,766. L. J. & C. D. JAFFEE INC., New York, N. Y. Filed June 9, 1928.



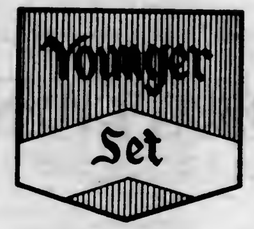
The lining in the drawing indicates red.
For Men's, Women's, and Children's Gloves of Leather or Fabric, Pajamas, Lumber Jackets, Hosiery, Hats, Caps, Shoes of Leather or Fabric, Sweaters, Aviation Coats, Coats, Fur Coats, Fur-Lined Coats, Suits, Overcoats, and Knickers; Men's and Boys' Outer Shirts, Collars, Neckties, Union Suits, Drawers, and Trousers; Women's Dresses, Chemises, Bloomers, Brassières, Scarfs, Shirts for Outer Wear, and Waists.
Claims use since Aug. 21, 1927, as to suits and overcoats, and on the remaining goods since Apr. 14, 1928.

Ser. No. 267,767. L. J. & C. D. JAFFEE INC., New York, N. Y. Filed June 9, 1928.

MODERNIQUE

For Men's, Women's, and Children's Gloves of Leather or Fabric, Pajamas, Lumber Jackets, Hosiery, Hats, Caps, Shoes and Slippers of Leather or Fabric, Sweaters, Coats, Aviation Coats, Fur Coats, Fur-Lined Coats, Overcoats, Suits, and Knickers; Men's and Boys' Negligee and Outer Shirts, Collars, Neckties, Union Suits, Drawers, Trousers, Bath, Lounging, and Smoking Robes; Women's Dresses, Chemises, Bloomers, Brassières, Scarfs, and Shirt Waists.
Claims use since May 18, 1928.

Ser. No. 267,768. L. J. & C. D. JAFFEE INC., New York, N. Y. Filed June 9, 1928.



The shading in the drawing indicates the color red.
For Men's, Women's, and Children's Gloves of Leather or Fabric, Pajamas, Lumber Jackets, Hosiery, Hats, Caps, Shoes of Leather or Fabric, Sweaters, Coats, Aviation Coats, Fur Coats, Fur-Lined Coats, Suits, Overcoats, and Knickers; Men's and Boys' Outer Shirts, Collars, Neckties, Union Suits, Drawers, and Trousers; Women's Dresses, Chemises, Bloomers, Scarfs, Brassières, Shirts for Outer Wear, and Waists.
Claims use since Aug. 21, 1927, as to suits and overcoats, and on the remaining goods since Apr. 14, 1928.

Ser. No. 267,771. L. J. & C. D. JAFFEE INC., New York, N. Y. Filed June 9, 1928.

SPORTMOR

For Men's, Women's, and Children's Gloves of Leather or Fabric, Pajamas, Lumber Jackets, Hosiery, Hats, Caps, Shoes of Leather or Fabric, Sweaters, Coats, Aviation Coats, Fur Coats, Fur-Lined Coats, Overcoats, Suits, and Knickers; Men's and Boys' Outer Shirts, Collars, Neckties, Union Suits, Drawers, and Trousers; Women's Dresses, Chemises, Bloomers, Brassières, Scarfs, and Shirt Waists.
Claims use since Aug. 21, 1927, as to suits and overcoats, and on the remaining goods since Apr. 14, 1928.

Ser. No. 267,772. L. J. & C. D. JAFFEE INC., New York, N. Y. Filed June 9, 1928.

PREPTON

For Men's, Women's, and Children's Gloves of Leather or Fabric, Pajamas, Lumber Jackets, Hosiery, Hats, Caps, Shoes and Slippers of Leather or Fabric, Sweaters, Coats, Aviation Coats, Fur Coats, Fur-Lined Coats, Overcoats, Suits, and Knickers; Men's and Boys' Negligee and Outer Shirts, Collars, Neckties, Union Suits, Drawers, Trousers, Bath, Lounging, and Smoking Robes; Women's Dresses, Chemises, Bloomers, Brassières, Scarfs, and Shirt Waists.
Claims use since Sept. 1, 1926, on suits, and on the remaining goods since Apr. 14, 1928.

Ser. No. 267,805. ROCKFORD E & W CLOTHING HOUSE, Rockford, Ill. Filed June 9, 1928.

TRACTOR

For Men's and Boys' Work Shirts, Overalls, Jackets, Coats, Pants, Shoes of Leather, Rubber, Fabric, and Combinations of Such Materials, Hats, Knitted and Textile Fabric Underwear, and Hosiery.
Claims use since May 29, 1928.

Ser. No. 268,124. VANITY FAIR SILK MILLS, Reading, Pa. Filed June 15, 1928.

EXOTIQUE

For Knitted and Textile Underwear for Women—Namely, Vests, Bloomers, Knickerbockers, Union Suits, Combinations Having a Bandeau for a Top Portion and a Bloomer for the Bottom Portion or Having a Bandeau for a Top-Portion and a Step-In Drawer for the Bottom Portion, Chemises, Envelope Chemises, Corset Covers, Nightgowns, Pajamas for Adults and Babies, Pettibockers, Step-In Drawers, Princess Slips, Petticoats, Bandeau and Bandeau Chemises, and Knitted and Textile Underwear for Men—Namely, Union Suits, Shirts, and Drawers.
Claims use since May 23, 1928.

Ser. No. 268,501. FELIX A. LACKS, doing business as Amform, New York, N. Y. Filed June 22, 1928.

AMFORM

For Ladies' Hats and Hoods for Ladies' Hats.
Claims use since on or about Sept. 15, 1927.

Ser. No. 268,531. J. & M. COHN, New York, N. Y. Filed June 23, 1928.

Heltstead

For Women's, Misses', and Children's Hats.
Claims use since June 1, 1928.

Ser. No. 268,572. GEORGE W. BAKER SHOE CO., Brooklyn, N. Y. Filed June 25, 1928.

TRU-BAK

For Shoe Counters.
Claims use since August, 1927.

Ser. No. 268,578. BRONSTON BROS. AND CO., INC., New York, N. Y. Filed June 25, 1928.

TUSCANO

For Men's, Women's, and Children's Straw, Panama, and Felt Hats.
Claims use since Jan. 1, 1928.

Ser. No. 268,743. MONTGOMERY WARD & CO., INCORPORATED, Chicago, Ill. Filed June 27, 1928.

BEAU BRUMMEL

For Leather Boots and Shoes.
Claims use since July 1, 1917.

Ser. No. 268,785. O. C. HANSEN MFG. CO., Milwaukee, Wis. Filed June 28, 1928.

TOWN&COUNTRY

For Unlined Leather Gloves for Women.
Claims use since Feb. 1, 1928.

CLASS 40.

Fancy Goods, Furnishings, and Notions.

Ser. No. 267,160. TIFFANY & COMPANY, New York, N. Y. Filed May 28, 1928.



For Shoehorns Not Made of Precious Metal, Buttonhooks Not Made of Precious Metal, Buckles Not Made of Precious Metal, Fans, Hatpins Not Made of Precious Metal, Bodkins Not Made of Precious Metal, Crocheting Needles, Collar Buttons Not Made of Precious Metal, Pincushions, Combs Not Made of Precious Metal, and Hairpins Not Made of Precious Metal.
Claims use since 1900.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 255,640. CRAFTWOVEN FABRICS, INC., Taunton, Mass. Filed Oct. 5, 1927.

Craftwoven Fabrics

No claim is made to the exclusive use of the word "Fabrics" apart from the mark shown in the drawing.
For Woven Cotton Fabrics in the Piece.
Claims use since about June 6, 1927.

Ser. No. 257,334. ATLAS EMBROIDERY COMPANY, West New York, N. J. Filed Nov. 10, 1927.

EMBRO-CHYNE

For Embroidered Piece Goods as Used in Bedspreads, Scarfs, and Draperies for Furniture.
Claims use since August, 1926.

Ser. No. 260,646. THE MAY DEPARTMENT STORES COMPANY, St. Louis, Mo. Filed Jan. 23, 1928.

STEELWARP

No claim is made to the term "Warp" apart from the mark shown in the drawing.
For Sheets and Pillowcases.
Claims use since 1918.

Ser. No. 264,274. F. A. BOCHMANN & CO., INC., Philadelphia, Pa. Filed Apr. 4, 1928.

KINGNET

For Worsted and Woolen Dress Goods Manufactured in the Piece.
Claims use since Mar. 17, 1928.

Ser. No. 264,276. F. A. BOCHMANN & CO., INC., Philadelphia, Pa. Filed Apr. 4, 1928.

DALAMAR

For Worsted and Woolen Dress Goods Manufactured in the Piece.
Claims use since May 17, 1928.

Ser. No. 265,885. CARTER DRY GOODS COMPANY, INC., Louisville, Ky. Filed May 4, 1928.

STAG

For Tobacco Canvas—Namely, An Unmedicated Cotton Gauze in the Piece.
Claims use since Jan. 1, 1895.

Ser. No. 265,886. CARTER DRY GOODS COMPANY, INC., Louisville, Ky. Filed May 4, 1928. Under 10-year proviso.

MARSHALL

For Tobacco Canvas—Namely, An Unmedicated Cotton Gauze in the Piece.
Claims use since Jan. 1, 1895.

Ser. No. 265,887. CARTER DRY GOODS COMPANY, INC., Louisville, Ky. Filed May 4, 1928. Under 10-year proviso.

KENTUCKY

For Tobacco Canvas—Namely, An Unmedicated Cotton Gauze in the Piece.
Claims use since Jan. 1, 1895.

Ser. No. 269,506. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed July 13, 1928.

NATURELLE

For Pile Fabrics in the Piece.
Claims use since July 5, 1928.

Ser. No. 269,697. S. STEIN & CO., New York, N. Y. Filed July 16, 1928.

AUSTRIALIAN

For Woolen Goods in the Piece and in Cut Lengths.
Claims use since January, 1927.

Ser. No. 269,949. DUNDEE TEXTILE COMPANY, Passaic, N. J. Filed July 21, 1928.

Dun-Tex

For Silk in the Piece.
Claims use since July 1, 1928.

CLASS 43.

Thread and Yarn.

Ser. No. 268,698. N. Y. RAYON IMPORTING CO., INC., New York, N. Y. Filed June 26, 1928.

FRENCH VISCOSE

V. V. S.

Applicant disclaims exclusive use of the words "French Viscose" apart from mark shown.
For Rayon Yarns and Threads.
Claims use since July 7, 1927.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 268,126. AGNES L. VIERRA, Salinas, Calif. Filed June 15, 1928.



No claim is made to the words "Sanitary Rubber Protector" and "Pat. Appl. For" apart from the mark shown in the drawing.
For Sanitary Napkins and Rubber Protectors Used to Contain Sanitary Napkins.
Claims use since Oct. 31, 1927.

Ser. No. 268,148. THE DENTAL MANUFACTURING COMPANY LIMITED, London, England. Filed June 16, 1928.

WALKERITE

For Plastic Preparations for Making Dentures.
Claims use since July, 1927.

Ser. No. 268,382. NATIONAL CELLULOSE CORPORATION, New York, N. Y. Filed June 20, 1928.

CELLEEN

For Sanitary Napkins, Surgical Dressings, and Absorbent Cellulose Tissue Used for Cleansing the Skin, Removing Cold Cream, Etc.
Claims use since Jan. 10, 1928.

Ser. No. 268,976. THE FAIR, Chicago, Ill. Filed July 2, 1928.

SANITARY NAPKINS
LA FRANCE
SHAPED COMFORT

No claim is made to the words "Sanitary Napkins" and "Shaped for Comfort" and to the Geographical words "La France" apart from the mark as shown in the drawing.
For Women's, M'sses', and Girls' Sanitary Napkins.
Claims use since June 1, 1928.

Ser. No. 268,982. J. A. HENCKELS, Solingen, Germany. Filed July 2, 1928.

Twin Works

For Nail Scissors, Cuticle Scissors, Surgical Shears, Corn Razors, Cuticle Nippers, Nail Nippers, Nail Clippers, Nail Files, Nail Cleaners, Cuticle Pushers, Manicure Tweezers, Corn Knives, Cuticle Knives, Nail Knives, and Manicure Sets.
Claims use since 1731.

Ser. No. 269,078. AUERBACH COMPANY, Salt Lake City, Utah. Filed July 5, 1928.

BROOKFIELD

The lining shown is for shading purposes only.
For Absorbent Cotton.
Claims use since Jan. 1, 1927.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 268,828. UNIVERSAL BEVERAGE CO., Cleveland, Ohio. Filed June 28, 1928.

MUTT & JEFF

For Nonalcoholic, Maltless Beverages Sold as Soft Drinks.
Claims use since June 15, 1928.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 242,742. PACIFIC COAST CANNERS, INC., Oakland, Calif. Filed Jan. 12, 1927.

TIOGA

For Canned Fruits and Vegetables.
Claims use since 1904.

Ser. No. 243,279. PACIFIC COAST CANNERS, INC., Oakland, Calif. Filed Jan. 24, 1927.

Golden Elk

For Canned Fruits and Vegetables.
Claims use since 1904.

Ser. No. 245,140. CITRUS FRUIT ASSOCIATION OF ONTARIO, Ontario, Calif. Filed Mar. 3, 1927.

LINNET

For Fresh Citrus Fruits—Namely, Oranges and Grapefruit.
Claims use since 1896.

Ser. No. 252,298. WESTERN DAIRY PRODUCTS CO., Seattle, Wash. Filed July 19, 1927.

SUNFREZE

For Ice Cream.
Claims use since June 3, 1927.

Ser. No. 253,712. SOCIETE ANONMYE DES FROMAGERIES CH. GERVAIS, Paris, France. Filed Aug. 19, 1927. Under 10-year proviso.

GERVAIS

For Cheese.
Claims use since Mar. 12, 1852.

Ser. No. 253,713. SOCIETE ANONYME DES FROMAGERIES CH. GERVAIS, Paris, France. Filed Aug. 19, 1927. Under 10-year proviso.

CH. GERVAIS

For Cheese.
Claims use since Mar. 12, 1852.

Ser. No. 253,930. G. H. ANDERSON ESTATE, doing business as Howard Fruit Company, San Jose, Calif. Filed Aug. 24, 1927.



For Fresh Deciduous Fruits.
Claims use since Aug. 1, 1927.

Ser. No. 255,862. NORRIS GRAIN COMPANY, Chicago, Ill. Filed Oct. 10, 1927.

"ROSE"

For Oats in Its Natural State.
Claims use since about Jan. 1, 1912.

Ser. No. 256,457. DUARTE FOOTHILL CITRUS ASSOCIATION, Duarte, Calif. Filed Oct. 22, 1927.

DEER

For Fresh Citrus Fruits—Namely, Oranges.
Claims use since 1898.

Ser. No. 256,746. HERMAN ROSENBERG, Philadelphia, Pa. Filed Oct. 28, 1927.

MALICHS-GRAPLICH

German Grits

No claim is made to the words "German Grits" apart from the mark as shown.
For Cereal Breakfast Food the Main Constituent of Which is Buckwheat.
Claims use since on or about Feb. 1, 1920.

Ser. No. 259,212. JOHN J. KERN, doing business as John J. Kern & Co., Chicago, Ill. Filed Dec. 21, 1927.

Mother Kern's

The words "Mother Kern's" are disclaimed apart from the mark shown on the drawing.
For Mustard.
Claims use since Nov. 1, 1927.

Ser. No. 262,189. HENRY V. STOY, doing business as Ace High Malt Extract Company, Philadelphia, Pa. Filed Feb. 24, 1928.

Old Gold

For Malt Syrup.
Claims use since Sept. 1, 1927.

Ser. No. 263,091. KASKO PRODUCTS COMPANY, INC., Philadelphia, Pa. Filed Mar. 13, 1928.

Kasko

For Sweetening Compound for Use as a Substitute for Sugar and a Compound of Chocolate and Malt for Use in Preparation of Foods and Beverages.
Claims use since Feb. 1, 1928, as to a sweetening compound, and to chocolate malt since Mar. 15, 1927.

Ser. No. 264,372. J. GOLDSMITH & SONS, New Britain, Conn. Filed Apr. 5, 1928.

ZUNDA BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
For Malt Syrup.
Claims use since Apr. 8, 1927.

Ser. No. 266,158. VAI BROS., doing business as California Medicinal Wine Co., Los Angeles, Calif. Filed May 9, 1928.



For Wine to Which Salt Has been Added Used as a Seasoning for Sauces and as Flavoring for Meats.
Claims use since Feb. 1, 1928.

Ser. No. 266,480. POSTUM COMPANY, INCORPORATED, New York, N. Y. Filed May 16, 1928.



The drawing is lined for the colors red and blue. No right of registration is claimed for the representation of the carton as distinguished from the arrangement or for the matter in small type on the face and sides.
For Gelatin Dessert.
Claims use since March, 1897.

Ser. No. 266,968. BARKER-MILLER DISTRIBUTING COMPANY, Phoenix, Ariz. Filed May 25, 1928.

YELLO-GOLD

For Fresh Melons—Namely, Cantaloupes and Honey Dew Melons.
Claims use since Feb. 1, 1928.

Ser. No. 267,014. SAFEWAY STORES, INC., Los Angeles, Calif. Filed May 25, 1928.

HIGHWAY

For Tea, Coffee, Spices, and Flavoring Extracts for Food Purposes.
Claim use since Aug. 18, 1916.

Ser. No. 267,118. FREDONIA PRODUCTS CO., INC., Fredonia, N. Y. Filed May 28, 1928.



The crescent, the stars, and the letters are shown in red.
For Catsup.
Claims use since May 1, 1926.

Ser. No. 267,510. RIVER PRODUCTS CO., Iowa City, Iowa. Filed June 5, 1928.



For Stock Feed.
Claims use since Mar. 12, 1928.

Ser. No. 267,815. UNITED RABBITRIES MARKETING CORP., Duarte, Calif. Filed June 9, 1928.



For Rabbits Alive, Dressed, and for Food Purposes; Canned Rabbit Meat, Smoked Rabbit Meat, Dressed Rabbit Meat, Pickled Rabbit Meat, Dried Rabbit Meat, Rabbit-Meat Loaf, Fresh and Smoked Rabbit Sausage.
Claims use since Oct. 15, 1926.

Ser. No. 268,040. WALTER E. HUGO, Hammond, Ind. Filed June 14, 1928.

SWEET LADY

For Pop Corn Raw and Popped and Pop-Corn Seasoning.
Claims use since Feb. 1, 1928.

Ser. No. 268,053. LEWIS MORRIS, doing business as Miami Malt Company, Miami, Fla. Filed June 14, 1928.



All words except "Chesterfield" and "Mighty Like a Rose" are disclaimed apart from the mark shown in the drawing.
For Malt Syrup.
Claims use since approximately Jan. 4, 1927.

Ser. No. 268,244. THE PFAFFMAN EGG NOODLE COMPANY, Cleveland, Ohio. Filed June 18, 1928. Under 10-year proviso.

Pfaffman's

For Alimentary Paste Products, Especially Noodles, Spaghetti, Vermicelli, and Macaroni, Prepared in Various Shapes and Forms.
Claims use since March, 1891.

Ser. No. 268,319. SOC. COOP. "OSTENDIA," Breedene, near Ostende, Belgium. Filed June 19, 1928.



For Preserved and Canned Fish.
Claims use since September, 1925.

Ser. No. 268,366. MRS. JOHNDINE GABRIELSEN, San Jose, Calif. Filed June 20, 1928.

Aunt Jo's
CALIFORNIA
PRUNE DELIGHTS

The word "Prune" is disclaimed apart from the mark shown on the drawing.
For Special Prune Confection.
Claims use since Nov. 1, 1927.

Ser. No. 268,489. THE CURTISS CANDY COMPANY, Chicago, Ill. Filed June 22, 1928.

OSTRICH EGG

For Candy.
Claims use since Feb. 1, 1928.

Ser. No. 268,722. F. S. WERTZ & SON, Reading, Pa. Filed June 26, 1928.

W

For Dairy, Horse, Hog, and Poultry Feeds.
Claims use since Mar. 4, 1925.

Ser. No. 268,767. BROWNELL & FIELD CO., Providence, R. I. Filed June 28, 1928.

B.F.C.

For Canned Fruits, Canned Vegetables, Canned Berries, Egg Noodles, Buckwheat Flour, Rice, Canned Fish, Canned Baked Beans, Brown Bread, Molasses, Canned Chicken, Canned Fruit, Preserves, Jellies, Pickle Relish, Tomato Catsup, Olives, Vinegar, Cocktail Sauce, Chili Sauce, Olive Oil, Pickles, Cane and Maple Syrup, Peanut Butter, Honey, and Mustard.
Claims use since 1917.

Ser. No. 268,876. MOBILE GROCERY COMPANY, also operating as Southern Products Co., Mobile, Ala. Filed June 29, 1928.

Eatbetter

For Candy and Peanut Butter.
Claims use since 1921.

Ser. No. 268,921. IRVIN FUERST, New York, N. Y. Filed June 30, 1928.

Verlaine

For Candy.
Claims use since June 23, 1928.

Ser. No. 268,929. S. H. KRESS & CO., New York, N. Y. Filed June 30, 1928.

Ester

For Assorted Bonbons and Chocolates.
Claims use since Mar. 17, 1926.

Ser. No. 269,060. THE J. WELLER COMPANY, Oak Harbor, Ohio. Filed July 3, 1928.

PURE GOLD

For Tomato Catsup and Pickles.
Claims use since 1900.

Ser. No. 269,701. J. WEINGARTEN, INC., Houston, Tex. Filed July 16, 1928.



No claim is made to the descriptive words "Creamery Butter" apart from the mark as shown. The drawing is lined to indicate the colors red, blue, green, and black.
For Creamery Butter.
Claims use since May 1, 1928.

Ser. No. 269,734. JOE LOWE CORPORATION, Brooklyn, N. Y. Filed July 17, 1928.

Cottage

For Doughnuts.
Claims use since March, 1927.

Ser. No. 269,743. PACIFIC TRADING CO., INC., San Francisco, Calif. Filed July 17, 1928.

"HIME"

For Canned Vegetables—Namely, Bamboo Sprouts.
Claims use since April, 1927.

Ser. No. 269,800. SCHWABACHER BROS. & CO., INC., Seattle, Wash. Filed July 18, 1928.

FERNBROOK

For Canned Fruits, Canned Vegetables, and Canned Fish.
Claims use since 1900.

Ser. No. 269,829. DOUGHNUT MACHINE CORPORATION, New York, N. Y. Filed July 19, 1928.

Downyflake
COFFEE
THE FLAVOR OF HOSPITALITY

No claim is made to the words "Coffee" or "The Flavor of Hospitality" apart from the mark shown in the drawing.
For Coffee.
Claims use since June, 1928.

CLASS 48.

Malt Beverages and Liquors.

Ser. No. 267,170. THE WEST END BREWING CO., Utica, N. Y. Filed May 28, 1928.

Utica Club

Applicant claims Certificate No. 144,492, issued July 5, 1921. The drawing is lined to indicate red.
For Nonalcoholic, Cereal, Malt Beverages.
Claims use since June 1, 1919.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 265,989. SHOECRAFT SHOP INC., New York, N. Y. Filed May 5, 1928.

SHOECRAFT

For Shoe-Trees.
Claims use since 1913.

Ser. No. 268,783. J. C. HAARTZ COMPANY, New Haven, Conn. Filed June 28, 1928.



For Waterproof Fabrics.
Claims use since Apr. 5, 1928.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

AUGUST 28, 1928.

245,890. MUCILAGE AND GLUES. HENNING-ORLA BRUHN, Copenhagen, Denmark.
Filed December 31, 1927. Serial No. 259,552. PUBLISHED JUNE 12, 1928. Class 5.

245,891. COTTON PILLOWCASES AND COTTON SHEETS. WARE SHOALS MANUFACTURING COMPANY, Ware Shoals, S. C.
Filed December 23, 1927. Serial No. 259,311. PUBLISHED JUNE 12, 1928. Class 42.

245,892. KEFIR AND FERMENTS FOR PREPARING THE SAME. MARTIN HAYOD, Madrid, Spain.
Filed December 21, 1927. Serial No. 259,193. PUBLISHED JUNE 5, 1928. Class 46.

245,893. DRY POWDERY MATERIAL WHICH WHEN MIXED WITH WATER BECOMES A PLASTIC PAINT. RAYMOND M. WEEKS, Philadelphia, Pa.
Filed December 10, 1927. Serial No. 258,779. PUBLISHED JUNE 5, 1928. Class 16.

245,894. DEODORANT IN CRYSTAL FORM. HILLYARD CHEMICAL COMPANY, St. Joseph, Mo.
Filed December 5, 1927. Serial No. 258,469. PUBLISHED JUNE 5, 1928. Class 6.

245,895. COOKIES. EDWARD A. WOODSIDE, Oakland, Calif.
Filed November 21, 1927. Serial No. 257,845. PUBLISHED JUNE 5, 1928. Class 46.

245,896. CANDY BONBONS, CHOCOLATE CANDY, FUDGE, CHOCOLATE-COVERED NUTS AND FRUITS, CAKES, NUTS IN THEIR NATURAL STATE AND SALTED, COOKIES, CHEWING GUM, ICE CREAM, ICES, HARD CANDY, SOFT CANDY AND CANDY OBJECTS, CANDY PATTIES, LOLLYPOPS, CANDY TABLETS, CARAMELS, MARSHMALLOWS, FROZEN CONFECTIONS; CONFECTIONS MADE FROM POPCORN, COCOANUT, AND SYRUP; FLAVORING EXTRACTS FOR FOOD PURPOSES AND DRIED FRUITS. ELIZABETH BEYE, doing business as Bettina's, New York, N. Y.
Filed November 12, 1927. Serial No. 257,465. PUBLISHED JUNE 12, 1928. Class 46.

245,897. MALT SYRUP. THE STROH PRODUCTS COMPANY, Detroit, Mich.
Filed November 11, 1927. Serial No. 257,453. PUBLISHED MAY 29, 1928. Class 46.

245,898. BRUSHING LACQUER. MAUTZ PAINT AND GLASS COMPANY, Madison, Wis.
Filed November 11, 1927. Serial No. 257,428. PUBLISHED FEBRUARY 21, 1928. Class 16.

245,899. FERROMAGNETIC ALLOYS COMPRISING NICKEL, IRON, AND COBALT. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y.
Filed November 8, 1927. Serial No. 257,260. PUBLISHED JUNE 12, 1928. Class 14.

245,900. PREPARATION FOR THE TREATMENT OF KIDNEY, BLADDER, AND URINE AFFECTIONS. HEYL & CO. CHEMISCH-PHARMAZEUTISCHE FABRIK AKTIENGESELLSCHAFT, Berlin, Germany.
Filed October 26, 1927. Serial No. 256,625. PUBLISHED JUNE 5, 1928. Class 6.

245,901. MEDICINAL PREPARATION FOR KIDNEY TROUBLE. RESBONA REMEDIES COMPANY, INC., Johnstown, Pa.
Filed October 21, 1927. Serial No. 256,420. PUBLISHED JUNE 5, 1928. Class 6.

245,902. MAYONNAISE. SIMON GELFAND, doing business as Gelfand & Co. (Not Inc.), Baltimore, Md.
Filed October 20, 1927. Serial No. 256,338. PUBLISHED JUNE 5, 1928. Class 46.

245,903. CONCENTRATED SYRUP CONSISTING OF CHOCOLATE MALTED MILK. CARNATION MILK PRODUCTS COMPANY, Oconomowoc, Wis.; Chicago, Ill.; and Seattle, Wash.
Filed October 20, 1927. Serial No. 256,330. PUBLISHED MARCH 6, 1928. Class 46.

245,904. LIQUID MOUTH WASH. ALFAN PRODUCTS, INC., New York, N. Y.
Filed October 17, 1927. Serial No. 256,160. PUBLISHED MAY 8, 1928. Class 6.

245,905. EAR PHONES FOR THE USE OF PERSONS WITH DEFECTIVE HEARING. AMERICAN PHONOPHOR CORPORATION, New York, N. Y.
Filed October 14, 1927. Serial No. 256,068. PUBLISHED JUNE 5, 1928. Class 44.

245,906. EAR PHONES FOR THE USE OF PERSONS WITH DEFECTIVE HEARING. AMERICAN PHONOPHOR CORPORATION, New York, N. Y.
Filed October 14, 1927. Serial No. 256,067. PUBLISHED JUNE 5, 1928. Class 44.

245,907. LARGE LEATHER BALLS. ELMER D. MITCHELL & GEORGE J. MOE, Ann Arbor, Mich.
Filed October 10, 1927. Serial No. 255,858. PUBLISHED JUNE 5, 1928. Class 22.

245,908. READY-MIXED PAINTS, VARNISHES, OR LACQUERS. MICHAEL MCNAMARA VARNISH WORKS, Detroit, Mich.
Filed September 19, 1927. Serial No. 254,926. PUBLISHED FEBRUARY 7, 1928. Class 16.

245,909. CANNED PACKAGE AND BOTTLED FOODS AND INGREDIENTS OF FOODS, INCLUDING CANNED FRUITS AND VEGETABLES, ETC. MAURICE SUSHELSKY, doing business as Independent Wholesale Grocery Co., Salem, Mass.
Filed September 14, 1927. Serial No. 254,731. PUBLISHED MAY 29, 1928. Class 46.

245,910. HAIRDRESSING, HAIR OIL, COCOANUT SHAMPOO, TEMPLE GROWER, HAIR GROWER, FACE POWDER, INCENSE POWDER; HEALING OINTMENT FOR TREATING ABRASIONS, BURNS, CUTS, AND SKIN DISEASES AND INFECTIONS; PETROLINE POMADE, PRESSING OIL, VANISHING CREAM, AND TETTER SALVE. LEO S. OSMAN, Washington, D. C.
Filed March 29, 1928. Serial No. 263,967. PUBLISHED JUNE 5, 1928. Class 6.

245,911. TOOTH PASTE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 29, 1928. Serial No. 263,962. PUBLISHED JUNE 12, 1928. Class 6.

245,912. MOTH AND MOTH LARVÆ KILLER. THE EXPELLO CORPORATION, Dover, N. H.
Filed March 29, 1928. Serial No. 263,938. PUBLISHED JUNE 12, 1928. Class 6.

245,913. RELISHES COMPOSED OF FINELY-SUBDIVIDED VEGETABLE MATTER, SUCH AS BEETS, CABBAGE, HORSE-RADISH, ETC., SEASONED WITH SPICE, SUGAR, AND VINEGAR AND FOR USE ON SALADS AND OTHER GOODS, ALSO AS A GARNISH, AND FOR SIMILAR PURPOSES. LOUISE B. FARWELL, doing business as Farwell & Co., Sarasota, Fla.
Filed March 28, 1928. Serial No. 263,867. PUBLISHED JUNE 12, 1928. Class 46.

245,914. PERFUMES. CHRISTINE S. ACKER, Santa Barbara, Calif.
Filed March 28, 1928. Serial No. 263,847. PUBLISHED JUNE 12, 1928. Class 6.

245,915. LIVE AND DRESSED POULTRY, EGGS, CREAM, BUTTER, CHEESE, FRESH FRUITS CONSISTING OF APPLES, PEARS, AND PEACHES, FRESH VEGETABLES, AND CALVES. THE MILLER BROS. CO., Cleveland and Fremont, Ohio.
Filed March 27, 1928. Serial No. 263,829. PUBLISHED JUNE 12, 1928. Class 46.

245,916. CANNED PEAS, CANNED CORN, CANNED BEETS, CANNED BEANS, AND CANNED EVAPORATED MILK. AUNT NELLIE'S FARM KITCHEN, INC., Hartford, Wis.
Filed March 24, 1928. Serial No. 263,721. PUBLISHED JUNE 5, 1928. Class 46.

245,917. INSECTICIDE PROVIDENCE CHEMICAL LABORATORIES, Providence, R. I.
Filed April 26, 1928. Serial No. 265,449. PUBLISHED JUNE 12, 1928. Class 6.

245,918. CERTAIN NAMED TAPE, BRAIDS, AND NOTIONS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed January 28, 1928. Serial No. 260,846. PUBLISHED MAY 29, 1928. Class 40.

245,919. CERTAIN NAMED HAT BRAIDS. R. H. COMEY COMPANIES CONSOLIDATED, Brooklyn, N. Y.
Filed January 27, 1928. Serial No. 260,717. PUBLISHED MAY 8, 1928. Class 40.

245,920. TOILET COMBS OF RUBBER, CELLULOID, AND HORN. E. MORRIS MFG. CO., Detroit, Mich.
Filed January 26, 1928. Serial No. 260,693. PUBLISHED APRIL 17, 1928. Class 40.

245,921. FAST-EDGE BINDINGS. JACOB MARCUS, New York, N. Y.
Filed January 23, 1928. Serial No. 260,513. PUBLISHED MAY 8, 1928. Class 40.

245,922. SAFETY PINS MADE OF METALS OTHER THAN PRECIOUS METALS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed January 17, 1928. Serial No. 260,236. PUBLISHED APRIL 3, 1928. Class 40.

245,923. BLOOD AND RHEUMATIC MEDICINE, MINERAL OIL FOR MEDICINAL PURPOSES, PILE OINTMENT, COUGH MEDICINE, APHRODISIAC CAPSULES, BLOOD SPECIFIC, ANTISEPTIC POWDER, RHEUMATIC LINIMENTS, HAIR TONIC, TONIC FOR THE KIDNEYS AND BLADDER, VEGETABLE COMPOUND FOR TREATMENT OF CONSTIPATION, GONORRHEA MEDICINE, LIVER CLEANSER AND TONIC, AND YELLOW-JAUNDICE TONIC. WILLIAM GEORGES, doing business as Larex Chemical Company, Seattle, Wash.
Filed January 16, 1928. Serial No. 260,173. PUBLISHED JUNE 5, 1928. Class 6.

245,924. CERTAIN NAMED FANCY GOODS. H. E. VERRAN COMPANY INCORPORATED, Stamford, Conn.
Filed January 14, 1928. Serial No. 260,150. PUBLISHED MAY 29, 1928. Class 40.

245,925. SOFT SOLDERS, HARD SOLDERS, AND ALUMINUM SOLDERS. SIMPLEX FLUX & SOLDER COMPANY OF AMERICA, Cleveland, Ohio.
Filed January 14, 1928. Serial No. 260,145. PUBLISHED JUNE 5, 1928. Class 14.

245,926. ASTRINGENTS, BEAUTY CREAMS, SHAMPOOS, ETC. BOURBON FRENCH PERFUME MANUFACTURING CO., New Orleans, La.
Filed January 11, 1928. Serial No. 259,941. PUBLISHED JUNE 12, 1928. Class 6.

245,927. CLASPS IN THE NATURE OF SHOE FASTENERS NOT OF PRECIOUS METAL NOR STUDDED WITH JEWELS. WALDES KOH-I-NOOR, INC., Long Island City, N. Y.
Filed January 9, 1928. Serial No. 259,890. PUBLISHED MAY 22, 1928. Class 40.

245,928. CANNED GOODS, PANCAKE FLOUR, ETC. MURPHYSBORO GROCERY COMPANY, Murphysboro, Ill.
Filed January 5, 1928. Serial No. 259,746. PUBLISHED JUNE 5, 1928. Class 46.

245,929. BREAD, ROLLS, CAKES, AND PASTRIES. JOHN MEES, Chicago, Ill.
Filed January 3, 1928. Serial No. 259,635. PUBLISHED JUNE 12, 1928. Class 46.

245,930. NOSE AND THROAT SPRAYS. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,444. PUBLISHED JUNE 12, 1928. Class 6.

245,931. NOSE AND THROAT SPRAYS. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,443. PUBLISHED JUNE 12, 1928. Class 6.

245,932. NOSE AND THROAT SPRAYS. MCKESSON & ROBBINS, INCORPORATED, Bridg port, Conn.
Filed April 6, 1928. Serial No. 264,442. PUBLISHED JUNE 12, 1928. Class 6.

245,933. TOOTH PASTE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,439. PUBLISHED JUNE 12, 1928. Class 6.

245,934. NOSE AND THROAT SPRAYS. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,436. PUBLISHED JUNE 12, 1928. Class 6.

245,935. NOSE AND THROAT SPRAYS. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,435. PUBLISHED JUNE 12, 1928. Class 6.

245,936. TOY AUTOMOBILES. GEO. BORGFELDT & CO., New York, N. Y.
Filed April 6, 1928. Serial No. 264,417. PUBLISHED JUNE 12, 1928. Class 22.

245,937. TOOTHPICKS. SERVICE GROCER COMPANY, INC., Detroit, Mich.
Filed April 5, 1928. Serial No. 264,389. PUBLISHED JUNE 12, 1928. Class 44.

245,938. SALMON EGGS FOR TROUT BAIT. PETER SELLEN, Seattle, Wash.
Filed April 3, 1928. Serial No. 264,261. PUBLISHED JUNE 5, 1928. Class 22.

245,939. DARNERS. JORDAN S. ORLER, Nantasket Beach, Mass.
Filed April 2, 1928. Serial No. 264,186. PUBLISHED MAY 22, 1928. Class 40.

245,940. SODA CRACKERS, SALTY FLAKES, BUTTER CRACKERS AND GRAHAM CRACKERS. THE KROGER GROCERY & BAKING CO., Cincinnati, Ohio.
Filed April 2, 1928. Serial No. 264,170. PUBLISHED JUNE 5, 1928. Class 46.

245,941. GLUE. CONSUMERS GLUE CO., St. Louis, Mo.
Filed April 2, 1928. Serial No. 264,148. PUBLISHED JUNE 5, 1928. Class 5.

245,942. GLUE WALL SIZE. CONSUMERS GLUE CO., St. Louis, Mo.
Filed April 2, 1928. Serial No. 264,147. PUBLISHED JUNE 5, 1928. Class 5.

245,943. MIXING FEED FOR STOCK. ALFOCORN MILLING COMPANY, St. Louis, Mo.
Filed April 2, 1928. Serial No. 264,132. PUBLISHED JUNE 12, 1928. Class 46.

245,944. CAKES AND PASTRY. AUGUST KESSELRING, doing business as Gus' Butter-Maid Bake Shop, Denver, Colo.
Filed March 31, 1928. Serial No. 264,111. PUBLISHED JUNE 5, 1928. Class 46.

245,945. WOMEN'S DRESS SHIELDS. THE S. KANN SONS COMPANY, Washington, D. C.
Filed March 31, 1928. Serial No. 264,110. PUBLISHED JUNE 12, 1928. Class 40.

245,946. VARNISH. BURNETT CHEMICAL COMPANY, Los Angeles, Calif.
Filed March 31, 1928. Serial No. 264,078. PUBLISHED JUNE 5, 1928. Class 16.

245,947. FOOTBALLS (ASSOCIATION AND RUGBY) AND FOOTBALL COVERS. WILLIAM THOMLINSON LIMITED, Partick, Glasgow, Scotland.
Filed March 30, 1928. Serial No. 264,064. PUBLISHED JUNE 5, 1928. Class 22.

245,948. FOOTBALLS (ASSOCIATION AND RUGBY) AND FOOTBALL COVERS. WILLIAM THOMLINSON LIMITED, Partick, Glasgow, Scotland.
Filed March 30, 1928. Serial No. 264,063. PUBLISHED JUNE 5, 1928. Class 22.

245,949. ELECTRIC CONNECTORS, OUTLET BOXES, AND PARTS THEREOF; WALL BRACKETS, SUPPORTS FOR BRACKETS, SOCKETS, HANGERS, SHADES, SHADE HOLDERS, AND LIGHTING-FIXTURE SUSPENSION MEANS. HENRY D'OLIER, Jr. Bridgeport, Conn.
Filed March 30, 1928. Serial No. 264,025. PUBLISHED JUNE 5, 1928. Class 21.

245,950. CHEMICAL DYE AIDS—NAMELY, MOISTENING PREPARATIONS, THREAD AND FIBRE PROTECTING PREPARATIONS, THREAD AND FIBRE PENETRATING PREPARATIONS, SMOOTHING PREPARATIONS, AND TANNING PREPARATIONS. H. TH. BÖHME A. G., Chemnitz, Germany.
Filed June 11, 1927. Serial No. 250,364. PUBLISHED JUNE 5, 1928. Class 6.

245,951. CHEMICAL DYE AIDS—NAMELY, MOISTENING PREPARATIONS, THREAD AND FIBRE PROTECTING PREPARATIONS, THREAD AND FIBRE PENETRATING PREPARATIONS, SMOOTHING PREPARATIONS, AND TANNING PREPARATIONS. H. TH. BÖHME A. G., Chemnitz, Germany.
Filed June 11, 1927. Serial No. 250,363. PUBLISHED JUNE 5, 1928. Class 6.

245,952. CHEMICAL DYE AIDS—NAMELY, MOISTENING PREPARATIONS, THREAD AND FIBRE PROTECTING PREPARATIONS, THREAD AND FIBRE PENETRATING PREPARATIONS, SMOOTHING PREPARATIONS, AND TANNING PREPARATIONS. H. TH. BÖHME A. G., Chemnitz, Germany.
Filed June 11, 1927. Serial No. 250,360. PUBLISHED JUNE 5, 1928. Class 6.

245,953. CHEMICAL DYE AIDS—NAMELY, MOISTENING PREPARATIONS, THREAD AND FIBRE PROTECTING PREPARATIONS, THREAD AND FIBRE PENETRATING PREPARATIONS, SMOOTHING PREPARATIONS, AND TANNING PREPARATIONS. H. TH. BÖHME A. G., Chemnitz, Germany.
Filed June 11, 1927. Serial No. 250,359. PUBLISHED JUNE 5, 1928. Class 6.

245,954. CHEMICAL DYE AIDS—NAMELY, MOISTENING PREPARATIONS, THREAD AND FIBRE PROTECTING PREPARATIONS, THREAD AND FIBRE PENETRATING PREPARATIONS, SMOOTHING PREPARATIONS, AND TANNING PREPARATIONS. H. TH. BÖHME A. G., Chemnitz, Germany.
Filed June 11, 1927. Serial No. 250,358. PUBLISHED JUNE 5, 1928. Class 6.

245,955. CHEMICAL DYE AIDS—NAMELY, MOISTENING PREPARATIONS, THREAD AND FIBRE PROTECTING PREPARATIONS, THREAD AND FIBRE PENETRATING PREPARATIONS, SMOOTHING PREPARATIONS, AND TANNING PREPARATIONS. H. TH. BÖHME A. G., Chemnitz, Germany.
Filed June 11, 1927. Serial No. 250,356. PUBLISHED JUNE 5, 1928. Class 6.

245,956. CHEMICAL DYE AIDS—NAMELY, MOISTENING PREPARATIONS, THREAD AND FIBRE PROTECTING PREPARATIONS, THREAD AND FIBRE PENETRATING PREPARATIONS, SMOOTHING PREPARATIONS, AND TANNING PREPARATIONS. H. TH. BÖHME A. G., Chemnitz, Germany.
Filed June 11, 1927. Serial No. 250,355. PUBLISHED JUNE 5, 1928. Class 6.

245,957. BREAD AND CAKE. HATHAWAY BAKING COMPANY, Boston, Mass.
Filed May 4, 1927. Serial No. 248,409. PUBLISHED JUNE 5, 1928. Class 46.

245,958. DURABLE METAL ALLOY. VENUS MANUFACTURING COMPANY, Minneapolis, Minn.
Filed April 23, 1927. Serial No. 247,918. PUBLISHED JUNE 5, 1928. Class 14.

245,959. CONDIMENTS—NAMELY, SAUCES, MEAT AND FISH PASTES, SALAD DRESSINGS, PICKLES, JAMS, AND JELLIES. STANDARD IMPORTS LIMITED, Montreal, Canada.
Filed April 22, 1927. Serial No. 247,872. PUBLISHED MAY 29, 1928. Class 46.

245,960. BISCUITS. STANDARD BISCUIT COMPANY, Des Moines, Iowa.
Filed April 11, 1927. Serial No. 247,294. PUBLISHED JUNE 5, 1928. Class 46.

245,961. COMMON PINS. SCOVILL MANUFACTURING COMPANY, Waterbury, Conn.
Filed March 25, 1927. Serial No. 246,366. PUBLISHED MAY 8, 1928. Class 40.

245,962. CHEMICAL SUBSTANCES USED IN MANUFACTURES — NAMELY, BOILER-SCALE-ELIMINATING COMPOUNDS AND ANTICORROSIVES. THE LIVERPOOL BORAX COMPANY LIMITED, Livepool, England.
Filed March 24, 1927. Serial No. 246,298. PUBLISHED JUNE 5, 1928. Class 6.

245,963. MALT SYRUP. PHILADELPHIA MALT WAREHOUSING CORPORATION, Philadelphia, Pa.
Filed March 15, 1927. Serial No. 245,807. PUBLISHED JUNE 12, 1928. Class 46.

245,964. CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, ETC. THE JOHN H. LOCK CO. INC., New York, N. Y.
Filed January 15, 1927. Serial No. 242,901. PUBLISHED MAY 1, 1928. Class 46.

245,965. BLOOD TONIC AND MEDICINAL PREPARATION FOR THE TREATMENT OF STOMACH AND KIDNEY DISEASES, BACKACHE, AND RHEUMATISM. EDWARD P. READ, doing business as The T. B. Donaldson Medicine Mfg. Company, Philadelphia, Pa.
Filed October 22, 1926. Serial No. 239,061. PUBLISHED DECEMBER 27, 1927. Class 6.

245,966. TOILET SETS AND SEWING SETS. EMILE MAURICE HERMÈS, Paris, France.
Filed May 26, 1926. Serial No. 232,270. PUBLISHED APRIL 10, 1928. Class 40.

245,967. CARBONATED NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS—VIZ, GINGER ALE, SARSAPARILLA, CREAM SODA, ROOT BEER, LIMEADE, AND VARIOUS FRUIT FLAVORS. MIAMI COCA COLA BOTTLING CO., Miami, Fla.
Filed January 9, 1926. Serial No. 225,725. PUBLISHED OCTOBER 5, 1926. Class 45.

245,968. [WITHDRAWN.]

245,969. CERTAIN NAMED PAINT PRODUCTS. THE STOCKTON PAINT COMPANY, Stockton, Calif.
Filed October 8, 1925. Serial No. 221,461. PUBLISHED DECEMBER 27, 1928. Class 6.

245,970. PIE-CRUST FLOUR AND WAFFLE FLOUR. MODERN MAID FOODS, INC., Los Angeles, Calif.
Filed March 24, 1928. Serial No. 263,718. PUBLISHED JUNE 5, 1928. Class 46.

245,971. CANDY AND PASTRY. E. J. M. COLBY CO., INC., New York, N. Y.
Filed March 24, 1928. Serial No. 263,691. PUBLISHED JUNE 5, 1928. Class 46.

245,972. OLIVES. VAN DYK & REEVES, INC., New York, N. Y.
Filed March 23, 1928. Serial No. 263,674. PUBLISHED JUNE 12, 1928. Class 46.

245,973. CHEST OF ASSORTED TOYS. THE DENT HARDWARE COMPANY, Fullerton, Pa.
Filed March 23, 1928. Serial No. 263,644. PUBLISHED JUNE 5, 1928. Class 22.

245,974. MILK. ORANGE DAIRY CO., Orange, N. J.
Filed March 22, 1928. Serial No. 263,616. PUBLISHED JUNE 12, 1928. Class 46.

245,975. OLIVE OIL. ROGER W. GERARD, doing business as Bambino Products Co., New York, N. Y.
Filed March 22, 1928. Serial No. 263,602. PUBLISHED JUNE 12, 1928. Class 46.

245,976. CERTAIN BEDSPREADS. KENNETH COTTON MILLS, Walhalla, S. C.
Filed March 21, 1928. Serial No. 263,551. PUBLISHED JUNE 5, 1928. Class 42.

245,977. PIES. GRENNAN BROS. PIE CO., Detroit, Mich.
Filed March 21, 1928. Serial No. 263,547. PUBLISHED JUNE 5, 1928. Class 46.

245,978. MACHINERY AND PARTS THEREOF. FARREL-BIRMINGHAM COMPANY, INCORPORATED, Ansonia and Derby, Conn., and Buffalo, N. Y.
Filed March 21, 1928. Serial No. 263,542. PUBLISHED JUNE 5, 1928. Class 23.

245,979. MAGNESIUM HYDROXIDE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 20, 1928. Serial No. 263,502. PUBLISHED JUNE 12, 1928. Class 6.

245,980. MAGNESIUM HYDROXIDE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 20, 1928. Serial No. 263,501. PUBLISHED JUNE 12, 1928. Class 6.

245,981. ALTERNATIVE GENERAL TONICS AND LAXATIVES. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 20, 1928. Serial No. 263,500. PUBLISHED JUNE 12, 1928. Class 6.

245,982. OINTMENT FOR CUTS, BURNS, BRUISES, COLD SORES, PIMPLES, AND AS A QUICK-HEALING ANTISEPTIC SALVE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 20, 1928. Serial No. 263,499. PUBLISHED JUNE 12, 1928. Class 6.

245,983. EYEWASH. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 20, 1928. Serial No. 263,498. PUBLISHED JUNE 12, 1928. Class 6.

245,984. SHAMPOO. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 20, 1928. Serial No. 263,497. PUBLISHED JUNE 12, 1928. Class 6.

245,985. ALTERNATIVE GENERAL TONICS AND LAXATIVES. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 20, 1928. Serial No. 263,495. PUBLISHED JUNE 12, 1928. Class 6.

245,986. ALTERNATIVE GENERAL TONICS AND LAXATIVES. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 20, 1928. Serial No. 263,494. PUBLISHED JUNE 12, 1928. Class 6.

245,987. SHAMPOO. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 20, 1928. Serial No. 263,490. PUBLISHED JUNE 12, 1928. Class 6.

245,988. MAGNESIA HYDROXIDE. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 20, 1928. Serial No. 263,486. PUBLISHED JUNE 12, 1928. Class 6.

245,989. PREPARATION FOR FILLING CIGAR AND CIGARETTE LIGHTERS. ALLEN SILBAR, doing business as Juliet Products Co., Chicago, Ill.
Filed March 19, 1928. Serial No. 263,437. PUBLISHED JUNE 5, 1928. Class 6.

245,990. ACETONE, ACETIC ACID, CITRIC ACID, ETC. SCHENECTADY HYGIENIC LABORATORY, Schenectady, N. Y.
Filed JULY 23, 1927. Serial No. 252,481. PUBLISHED JUNE 12, 1928. Class 6.

245,991. MATERIALS STAMPED FOR EMBROIDERY. ABRAHAM ROSENBLUM, doing business as the Hudson Terminal Art Embroidery Shop, New York, N. Y.
Filed June 23, 1927. Serial No. 251,015. PUBLISHED MAY 29, 1928. Class 40.

245,992. FOOT POWDER. D. C. LEO & COMPANY, Des Moines, Iowa.
Filed April 16, 1928. Serial No. 264,895. PUBLISHED JUNE 12, 1928. Class 6.

245,993. DRESS SHIELDS. NEW YORK SHIELD COMPANY, New York, N. Y.
Filed April 14, 1928. Serial No. 264,835. PUBLISHED MAY 29, 1928. Class 40.

245,994. DRESS SHIELDS. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed April 14, 1928. Serial No. 264,824. PUBLISHED MAY 29, 1928. Class 40.

245,995. STRAW BRAID FOR USE IN MEN'S HATS. R. H. COMEY COMPANIES CONSOLIDATED, Brooklyn, N. Y.
Filed April 14, 1928. Serial No. 264,809. PUBLISHED JUNE 5, 1928. Class 40.

245,996. WHEAT FLOUR. ROBINSON MILLING CO., Salina, Kans.
Filed April 11, 1928. Serial No. 264,697. PUBLISHED JUNE 12, 1928. Class 46.

245,997. IRON-ALUMINUM ALLOY. METAL ALLOYS, INC., Watervliet, N. Y.
Filed April 11, 1928. Serial No. 264,693. PUBLISHED JUNE 12, 1928. Class 14.

245,998. EGGS. LYMAN POULTRY ASSOCIATION, Lyman, Wyo.
Filed April 10, 1928. Serial No. 264,648. PUBLISHED JUNE 5, 1928. Class 46.

245,999. MALT EXTRACT. HENRY RUBIN, doing business as Best-of-All Malt Company, Brooklyn, N. Y.
Filed April 9, 1928. Serial No. 264,611. PUBLISHED JUNE 12, 1928. Class 46.

246,000. BREAKFAST COCOA, SWEET RELISH, CATSUP, OLIVES, SWEET MIXED PICKLES, SOUR MIXED PICKLES, RED-CURRANT JELLY, PRESERVES. FRANCIS H. LEGGETT & COMPANY, New York, N. Y.
Filed April 9, 1928. Serial No. 264,589. PUBLISHED JUNE 5, 1928. Class 46.

246,001. IRON AND STEEL. FARREL-BIRMINGHAM COMPANY, INCORPORATED, Ansonia, Conn.
Filed April 9, 1928. Serial No. 264,573. PUBLISHED JUNE 12, 1928. Class 14.

246,002. STEELS. CYCLOPS STEEL COMPANY, INC., Titusville, Pa.
Filed April 9, 1928. Serial No. 264,566. PUBLISHED JUNE 12, 1928. Class 14.

246,003. MALT SYRUP FOR BAKING AND BEVERAGE PURPOSES. CHARLES STETINA, doing business as No. 44 Supply Store, Cleveland, Ohio.
Filed April 6, 1928. Serial No. 264,484. PUBLISHED MAY 29, 1928. Class 46.

246,004. NEEDLES FOR MENDING HOSIERY BY HAND. HARRY I. ROSENBLATT, doing business as Armentiers Specialty Co., Baltimore, Md.
Filed April 6, 1928. Serial No. 264,481. PUBLISHED JUNE 12, 1928. Class 40.

246,005. SHEET METAL FOR PRINTING PLATES. PANTONE PROCESSES LIMITED, London, England.
Filed April 6, 1928. Serial No. 264,475. PUBLISHED JUNE 5, 1928. Class 14.

246,006. SHEET METAL FOR PRINTING PLATES. PANTONE PROCESSES LIMITED, London, England.
Filed April 6, 1928. Serial No. 264,473. PUBLISHED JUNE 5, 1928. Class 14.

246,007. DEODORANT. McKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,452. PUBLISHED JUNE 12, 1928. Class 6.

246,008. DEODORANT. McKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,450. PUBLISHED JUNE 12, 1928. Class 6.

246,009. DEODORANT. McKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,448. PUBLISHED JUNE 12, 1928. Class 6.

246,010. THROAT SPRAY AND GARGLE. McKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,446. PUBLISHED JUNE 12, 1928. Class 6.

246,011. TOOTH PASTE. McKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed April 6, 1928. Serial No. 264,445. PUBLISHED JUNE 12, 1928. Class 6.

246,012. OINTMENT FOR CUTS, BURNS, BRUISES, COLD SORES, PIMPLES, AND AS A QUICK-HEALING ANTISEPTIC SALVE. McKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,754. PUBLISHED JUNE 12, 1928. Class 6.

246,013. SHAMPOO. McKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,750. PUBLISHED JUNE 12, 1928. Class 6.

246,014. LOTION FOR BEAUTIFYING AND IMPROVING THE SKIN AND COMPLEXION. FERDINAND T. HOPKINS, doing business as Ferd. T. Hopkins & Son, New York, N. Y.
Filed March 7, 1928. Serial No. 262,713. PUBLISHED JUNE 5, 1928. Class 6.

246,015. PLASTIC PAINT. FINISHING SPECIALTIES & SERVICE CO., Chicago, Ill.
Filed March 5, 1928. Serial No. 262,602. PUBLISHED JUNE 5, 1928. Class 16.

246,016. CAST-IRON WELDING FLUX, BRAZING COMPOUND, ALUMINUM WELDING FLUX, SOLDERING COMPOUND, AND SOLDERING SALTS. LON WILLIAM HOLLEY, Long Beach, Calif.
Filed March 3, 1928. Serial No. 262,565. PUBLISHED JUNE 5, 1928. Class 6.

246,017. INTERIOR WARM-WATER OR OIL WALL FINISH AND PAINTER'S SIZING. CRAFTEX COMPANY, Brighton District, Boston, Mass.
Filed March 2, 1928. Serial No. 262,510. PUBLISHED JUNE 5, 1928. Class 16.

246,018. ANTISEPTIC POWDER. EZRA KOWALSKY, doing business as Saniseptol Products Co., Kansas City, Mo.
Filed February 27, 1928. Serial No. 262,312. PUBLISHED JUNE 12, 1928. Class 6.

246,019. CHEMICAL PRODUCT CALLED CINNAMIC ALDEHYDE AMYL. DESCOLLONGES FRÈRES, Lyon, France.
Filed February 25, 1928. Serial No. 262,217. PUBLISHED JUNE 12, 1928. Class 6.

246,020. READY-MIXED PAINTS. NATHAN SLIFYAN, doing business as Shelter Paint and Varnish Works, New York, N. Y.
Filed February 23, 1928. Serial No. 262,140. PUBLISHED JUNE 5, 1928. Class 16.

246,021. HAIRPINS. THE HUMP HAIRPIN MFG. CO., Chicago, Ill.
Filed February 23, 1928. Serial No. 262,086. PUBLISHED MAY 8, 1928. Class 40.

246,022. MEDICINAL HERB TEA FOR THE TREATMENT OF DISORDERS OF THE STOMACH AND OTHER DIGESTIVE ORGANS. REGINA GREEN, doing business as the Velleda Laboratory, New York, N. Y.
Filed February 23, 1928. Serial No. 262,081. PUBLISHED JUNE 12, 1928. Class 6.

246,023. TOILET ARTICLES, PREPARATIONS, AND PRODUCTS — NAMELY, ROUGE, ASTRINGENT, COMPLEXION LOTION, DUSTING POWDER, TALC AND TALCUM POWDER; BLEACHES, PREPARATIONS, AND TONICS FOR THE HAIR; COMPACTS, TOILET AND FACE CREAMS, TOILET AND FACE POWDERS, EYELASH PREPARATIONS, NAIL POLISH, TOILET WATER, DEPILATORIES, BATH SALTS, SACHETS, AND PERFUMES. BENJAMIN LELAND & CO., St. Louis, Mo.
Filed February 23, 1928. Serial No. 262,049. PUBLISHED JUNE 5, 1928. Class 6.

246,024. CERTAIN NAMED TAPE, BRAIDS, AND NOTIONS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed February 18, 1928. Serial No. 261,922. PUBLISHED JUNE 5, 1928. Class 40.

246,025. WOVEN LABELS OF COTTON AND SILK. J. & J. CASH, INC., South Norwalk, Conn.
Filed February 18, 1928. Serial No. 261,861. PUBLISHED APRIL 17, 1928. Class 40.

246,026. MAYONNAISE. THE GELFAND MANUFACTURING COMPANY, Baltimore, Md.
Filed February 9, 1928. Serial No. 261,435. PUBLISHED JUNE 5, 1928. Class 46.

246,027. LINSEED MEAL. LINSEED MEAL EDUCATIONAL COMMITTEE, Milwaukee, Wis.
Filed February 8, 1928. Serial No. 261,369. PUBLISHED JUNE 12, 1928. Class 46.

246,028. WIRE SOLDER. THE FEDERATED METALS CORPORATION, San Francisco, Calif.
Filed February 8, 1928. Serial No. 261,358. PUBLISHED JUNE 5, 1928. Class 14.

246,029. GENERAL TONIC HAVING A WINE BASE. CALIFORNIA COMMERCIAL COMPANY, San Francisco, Calif.
Filed February 8, 1928. Serial No. 261,348. PUBLISHED MAY 1, 1928. Class 6.

246,030. BITS, SPURS, SPUR ROWELS, SPUR STRAPS, REIN CHAINS, AND STIRRUPS. NORTH & JUDD MANUFACTURING COMPANY, New Britain, Conn.
Filed February 3, 1928. Serial No. 261,137. PUBLISHED MARCH 13, 1928. Class 3.

246,031. CIGARS. CHOICE CIGAR COMPANY, Wilkes-Barre, Pa.
Filed April 17, 1928. Serial No. 264,970. PUBLISHED JUNE 5, 1928. Class 17.

246,032. LIP STICK. HELENA RUBINSTEIN, INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,725. PUBLISHED JUNE 12, 1928. Class 6.

246,033. LAXATIVE. JOHN DEWEY STRATTON, doing business as Stratton's Laboratories, Louisville, Ky.
Filed April 30, 1928. Serial No. 265,704. PUBLISHED JUNE 12, 1928. Class 6.

246,034. DISINFECTANTS AND DEODORIZERS. JOSEPH CHRISTOPHER SHEPARD, Wilmington, N. C.
Filed April 30, 1928. Serial No. 265,698. PUBLISHED JUNE 12, 1928. Class 6.

246,035. ASH TRAYS. FRANKART, INC., New York, N. Y.
Filed April 28, 1928. Serial No. 265,532. PUBLISHED JUNE 5, 1928. Class 8.

246,036. ICE CREAM, PRESERVED FRUITS, CANNED FRUITS, CANNED VEGETABLES, BUTTER, CAKES, COFFEE, AND CANDIES. ALMA B. HAYES, doing business as Palatelle Products Co., Takoma Park, Md.
Filed April 26, 1928. Serial No. 265,433. PUBLISHED JUNE 12, 1928. Class 46.

246,037. BUTTER. THE COLUMBUS PACKING COMPANY, Columbus, Ohio.
Filed April 25, 1928. Serial No. 265,866. PUBLISHED JUNE 5, 1928. Class 46.

246,038. MESH BAGS. WHITING & DAVIS COMPANY, Plainville, Mass.
Filed April 24, 1928. Serial No. 265,351. PUBLISHED JUNE 5, 1928. Class 3.

246,039. CLEANSING, STERILIZING, AND PURIFYING FLUID. DEHLS & STEIN, Newark, N. J.
Filed April 24, 1928. Serial No. 265,321. PUBLISHED JUNE 5, 1928. Class 6.

246,040. THROAT LOZENGES. ORGAN-IRON LABORATORIES, Omaha, Nebr.
Filed April 21, 1928. Serial No. 265,232. PUBLISHED JUNE 5, 1928. Class 6.

246,041. MACARONI. THE DEMARTINI MACARONI CO. INC., New York and Brooklyn, N. Y.
Filed April 20, 1928. Serial No. 265,147. PUBLISHED JUNE 12, 1928. Class 46.

246,042. BUTYL PROPIONATE, TRIPHENYL PHOSPHATE, AND ALUMINUM VEHICLE. CHEMICAL PRODUCTS CORPORATION, West Nyack, N. Y.
Filed April 20, 1928. Serial No. 265,139. PUBLISHED JUNE 12, 1928. Class 6.

246,043. EVAPORATED MILK. GUS TIEPENTHALER, doing business as Wisconsin Creamery Company, St. Louis, Mo.
Filed April 19, 1928. Serial No. 265,126. PUBLISHED JUNE 12, 1928. Class 46.

246,044. LOTION FOR THE HANDS AND FACE. HENRY A. MULLINS, Brooklyn, N. Y.
Filed March 19, 1928. Serial No. 263,415. PUBLISHED JUNE 5, 1928. Class 6.

246,045. HAIRPINS NOT MADE OF PRECIOUS METAL. HEATH & HAGEMANN, INC., Edmonds, Wash.
Filed March 19, 1928. Serial No. 263,396. PUBLISHED MAY 8, 1928. Class 40.

246,046. OINTMENT FOR EXTERNAL USE FOR PILES, SCALDS, BURNS, BOILS, CUTS, INSECT BITES, FALLEN WOMB, SORES, AND RISEN BREAST. HATTIE GREGORY, Atlanta, Ga.
Filed March 19, 1928. Serial No. 263,390. PUBLISHED JUNE 12, 1928. Class 6.

246,047. ADJUSTABLE HEAD PADS. THE FRIEDLAENDER COMPANY, New York, N. Y.
Filed March 19, 1928. Serial No. 263,386. PUBLISHED JUNE 5, 1928. Class 44.

246,048. PERFUMES, COLD CREAMS, TOILET WATERS, LIP STICKS, AND ROUGES. JOSEPH FISHMAN, doing business as Love Charm Co., St. Louis, Mo.
Filed March 19, 1928. Serial No. 263,384. PUBLISHED JUNE 5, 1928. Class 6.

246,049. FINGERPRINTING APPARATUS. FINGERPRINTS, INC., Lynn, Mass.
Filed March 19, 1928. Serial No. 263,383. PUBLISHED MAY 29, 1928. Class 26.

246,050. PAINTERS' WALL SIZINGS. CRAFTEX COMPANY, Brighton District, Boston, Mass.
Filed March 19, 1928. Serial No. 263,377. PUBLISHED JUNE 12, 1928. Class 16.

246,051. PREPARATION FOR PREVENTION AND ELIMINATION OF RUST. ADOLPH C. BECK, doing business as A. C. Beck Co., Minneapolis, Minn.
Filed March 19, 1928. Serial No. 263,368. PUBLISHED JUNE 5, 1928. Class 6.

246,052. RUBBER SOFTENER. EDWARD MAURER, New York, N. Y.
Filed March 17, 1928. Serial No. 263,328. PUBLISHED JUNE 5, 1928. Class 6.

246,053. WATER PAINT OR PLASTIC PAINT, PAINTERS' SIZING, AND PAINTERS' GLAZES. CRAFTEX COMPANY, Brighton District, Boston, Mass.
Filed March 17, 1928. Serial No. 263,309. PUBLISHED JUNE 12, 1928. Class 16.

246,054. LINIMENT FOR TREATING RHEUMATISM, SCIATICA, BACKACHE, STIFF NECK, SPRAINS, LUMBAGO, COLDS, NEURALGIA, AND SORE MUSCLES. FRANK D. BYRNE, Chicago, Ill.
Filed March 17, 1928. Serial No. 263,304. PUBLISHED JUNE 12, 1928. Class 6.

246,055. MEDICINAL PREPARATION USED AS A CATHARTIC, BLOOD PURIFIER, AND GENERAL TONIC FOR THE BODY, AND ESPECIALLY AS A TREATMENT FOR RHEUMATISM AND NEURALGIA. JOHN T. FLUEHMANN, doing business as Kama-Nox Laboratories, Detroit, Mich.
Filed March 16, 1928. Serial No. 263,262. PUBLISHED JUNE 5, 1928. Class 6.

246,056. METAL ALLOYS. VANADIUM CORPORATION OF AMERICA, Bridgeville, Pa.
Filed March 16, 1928. Serial No. 263,249. PUBLISHED JUNE 5, 1928. Class 14.

246,057. ICE CREAM AND ICE-CREAM CONFECTIONS. CHRISTIAN K. NELSON, doing business as N-Ice Cream Company, Chicago, Ill.
Filed March 15, 1928. Serial No. 263,224. PUBLISHED JUNE 5, 1928. Class 46.

246,058. WHEAT FLOUR FOR THE PURPOSE OF MAKING BREAD, CAKE, AND BISCUITS. DULUTH-SUPERIOR MILLING COMPANY, Duluth, Minn.
Filed March 15, 1928. Serial No. 263,201. PUBLISHED JUNE 5, 1928. Class 46.

246,059. SALVES FOR THE SKIN AND BODY FOR RELIEVING PAIN AND FOR TREATMENT OF BURNS, BRUISES, CONTUSIONS, ABRASIONS, ULCERS, AND INFLAMED CONDITION OF SKIN AND MUCOUS MEMBRANE. THE KIP CORPORATION, Los Angeles, Calif.
Filed March 14, 1928. Serial No. 263,159. PUBLISHED JUNE 5, 1928. Class 6.

246,060. SHOE LACINGS, CORSET LACINGS, UNDERWEAR LACINGS, BLOUSE LACINGS, TAPES, BELTINGS, BINDINGS, GALLOONS, AND BANDINGS, ALL OF WHICH ARE WOVEN OR BRAIDED OF COTTON, RAYON, SILK, OR WORSTED. INTERNATIONAL BRAID COMPANY, Providence, R. I.
Filed March 13, 1928. Serial No. 263,088. PUBLISHED MAY 8, 1928. Class 40.

246,061. DRESS SHIELDS. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed March 12, 1928. Serial No. 263,044. PUBLISHED MAY 8, 1928. Class 40.

246,062. TOY HAND CARS, KIDDIE CARS, SCOOTERS, AND PLAY CARS. WILLIAM E. STEWART MFG. CO., Flint, Mich.
Filed March 10, 1928. Serial No. 262,974. PUBLISHED JUNE 5, 1928. Class 22.

246,063. OINTMENT FOR CUTS, BURNS, BRUISES, COLD SORES, PIMPLES, AND AS A QUICK-HEALING ANTISEPTIC SALVE. McKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed March 7, 1928. Serial No. 262,755. PUBLISHED JUNE 12, 1928. Class 6.

246,064. MALT SYRUP. EDW. J. ROMANO, San Jose, Calif.
Filed November 8, 1926. Serial No. 225,763. PUBLISHED JULY 13, 1926. Class 48.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

246,065. (CLASS 33. GLASSWARE.) KARL HANSEN COMPANY, INC., New Orleans, La. Filed June 15, 1928. Serial No. 268,100.

THE PLATE GLASS HOUSE

For Plate Glass.
Claims use since June 1, 1927.

246,066. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) COLUMBIA FASTENER COMPANY, Chicago, Ill. Filed June 5, 1928. Serial No. 267,485.

Automatic

For Snap Fasteners.
Claims use since Aug. 2, 1919.

246,067. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE J. R. CLARK COMPANY, Minneapolis, Minn. Filed Feb. 23, 1928. Serial No. 262,060.

SPACE SAVER

For Stepladders.
Claims use since on or about July 1, 1927.

246,068. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LU-MI-NUS SIGNS, INC., Chicago, Ill. Filed Feb. 18, 1928. Serial No 261,890.

LU-MI-NUS

For Electrical Luminescent Signs and Electrical Luminescent Letters for Signs.
Claims use since Jan. 1, 1918.

246,069. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE DURO COMPANY, Dayton, Ohio. Filed July 9, 1927. Serial No. 251,722.

STEADIFLO

For Electric Deep-Well Pumps and Automatic Electric Water Systems.
Claims use since May, 1923.

246,070. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ROBERTS, CUSHMAN & COMPANY, New York, N. Y. Filed July 8, 1927. Serial No. 251,685.

Roberts Push-Prong Band

For Hatbands and Hatband Fasteners.
Claims use since Feb. 28, 1927.

246,071. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MCKINNEY MANUFACTURING COMPANY, Pittsburgh, Pa. Filed July 12, 1927. Serial No. 251,925.

friction control

For Hinges.
Claims use since May 13, 1927.

246,072. (CLASS 25. LOCKS AND SAFES.) MCKINNEY MANUFACTURING COMPANY, Pittsburgh, Pa. Filed July 12, 1927. Serial No. 251,924.

NOB-LOC

For Door Latches.
Claims use since May 24, 1927.

246,073. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE TWIN COUPLER COMPANY, INC., Poughkeepsie, N. Y. Filed May 23, 1927. Serial No. 249,554.

TWIN COUPLER

For Radio Reception Elements—Namely, Inductances, Including Loose-Wound Coils, Basket-Weave Coils, Pancake Coils, Space-Wound Coils, Double Coils; Short-Wave Kits Comprising Unassembled Parts of Radio Receiving Sets, Insulating Tubes for Winding Coil Elements, Plug-In Coils.
Claims use since Sept. 5, 1924.

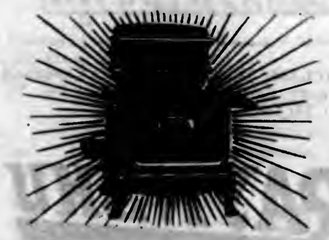
246,074. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE RUDOLPH WURLITZER MFG. COMPANY, North Tonawanda, N. Y. Filed Apr. 26, 1927. Serial No. 248,017.

Organette

For Organs, Pianos, and Mechanically and Automatically Operated Actions for Playing Organs and Pianos.
Claims use since Mar. 8, 1927.

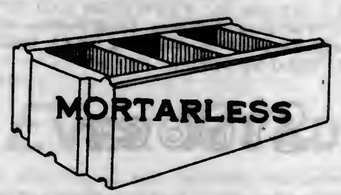
246,075. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BLACK-IRON STOVE POLISH COMPANY, Lawrence, Mass. Filed Dec. 17, 1926. Serial No. 241,609.

BLACK-IRON



For Stove Polishes.
Claims use since Nov. 18, 1926.

246,076. (CLASS 12. CONSTRUCTION MATERIALS.) MORTARLESS TILE MACHINE CO. INC., Santa Barbara, Calif. Filed May 24, 1926. Serial No. 232,143.



For Tile, Building Blocks, Wall Blocks, Corner Blocks, Jamb Blocks.
Claims use since Apr. 15, 1926.

246,077. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEWMAN & SCALES, Chicago, Ill. Filed June 4, 1928. Serial No. 267,446.

HILL'S

For Malt Syrups.
Claims use since about 1922.

246,078. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRAND TRAVERSE PACKING COMPANY, Traverse City, Mich. Filed May 17, 1928. Serial No. 266,531.

GRAND TRAVERSE

For Canned Cherries, Apples, Asparagus, and Raspberries.
Claims use since January, 1926.

246,079. (CLASS 45. BEVERAGES, NONALCOHOLIC.) MULVIHILL-GOODWINE COMPANY, Chicago, Ill. Filed Mar. 20, 1928. Serial No. 263,507.

Goodwine's

For Nonalcoholic, Maltless Beverages Sold as Soft Drinks and Sirups, Extracts, and Concentrates for Making the Same; Ginger Ale, Carbonated Beverages, Fountain Sirups, Bottlers' Sirups, and Extracts.
Claims use since May 1, 1919.

246,080. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BOUDETTE MANUFACTURING CO., Chelsea, Mass. Filed Mar. 26, 1928. Serial No. 263,746.

SONOCHORDE

For Radio Reproducing Devices—Namely, Assembled Loud Speakers, Including a Vibratory Diaphragm for Amplifying Sounds Transmitted by Radiant Energy or Electrical Power, and Electrical Operating Units for Vibrating Diaphragms or to be Vibrated Thereby.
Claims use since November, 1922.

246,081. (CLASS 45. BEVERAGES, NONALCOHOLIC.) LOUIS FINE, Baltimore, Md. Filed Jan. 7, 1928. Serial No. 259,801.

Lime Dry

For a Specialty Drink, a Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink and Syrup, Extract, and Concentrate for Making the Same.
Claims use since July 1, 1927.

246,082. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SPICER MANUFACTURING CORPORATION, South Plainfield, N. J. Filed June 30, 1928. Serial No. 268,941.

Spicer

For Universal Joints, Flexible Couplings, and Parts Thereof.
Claims use since on or about May 1, 1906.

246,083. (CLASS 17. TOBACCO PRODUCTS.) FRETWELL BROS., Leesburg, Fla. Filed June 23, 1928. Serial No. 268,539.

TAMPA BLUNTS

For Cigars.
Claims use since June 1, 1927.

246,084. (CLASS 39. CLOTHING.) I. JANOV-ABELES SHIRT CO., New York, N. Y. Filed May 26, 1928. Serial No. 267,058.

NOSHRINK

For Men's Dress Shirts and Negligee Shirts.
Claims use since Jan. 1, 1927.

246,085. (CLASS 39. CLOTHING.) NATHAN E. BERRIMAN, New York, N. Y. Filed Apr. 24, 1928. Serial No. 265,315.

SHRINK-PROOF

For Wearing Apparel of Knitted and Textile Fabric—Namely, Underwear for Men and Women, Pajamas, Nightshirts, and Night Robes.
Claims use since Feb. 18, 1926.

246,086. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BROWNSTEIN-LOUIS COMPANY, Los Angeles, Calif. Filed Mar. 31, 1928. Serial No. 264,074.

Stanford

For Cotton Textile Fabrics.
Claims use since Jan. 1, 1922.

246,087. (CLASS 39. CLOTHING.) PENDLETON WOOLEN MILLS, Portland, Oreg. Filed Mar. 8, 1928. Serial No. 262,815.

HARDING

For Men's and Boys' Clothing—Namely, Mackinaws, Overcoats, Stockings, Outer Woolen Shirts, and Sweaters.
Claims use since January, 1923.

246,088. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOAN J. MARSH, doing business as Purity Food Company, Atlantic City, N. J. Filed Feb. 23, 1928. Serial No. 262,105.

Tiny Taters

For Potatoes Julienne, Shoe-String Potatoes, and Potato Chips.
Claims use since Sept. 19, 1926.

246,089. (CLASS 39. CLOTHING.) CAMBRIDGE RUBBER COMPANY, Cambridge, Mass. Filed Feb. 11, 1928. Serial No. 261,550.

RAYNSHU

Applicant owns Reg. No. 227,170.
For Rubber Boots, Shoes, Overshoes, and Arctics.
Claims use since Nov. 18, 1919.

246,090. (CLASS 32. FURNITURE AND UPHOLSTERY.) FRANKLIN I. STOBER, doing business as The Stober Manufacturing Co., New York, N. Y. Filed Oct. 21, 1927. Serial No. 256,431.

Stober

For Bed Trays for Serving Food to Invalids, and Invalid Reading Trays.
Claims use since October, 1914.

246,091. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Aug. 22, 1927. Serial No. 253,799.

Zara

For Woolen Piece Goods.
Claims use since July 10, 1927.

246,092. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) HARRY C. DOWDS, Cleveland, Ohio. Filed Aug. 12, 1927. Serial No. 253,362.

Ever Bright

For Cooking Utensils in Aluminum Ware—Namely, Bake Pans, Bread Pans, Coffeepots, Colanders, Convex Kettles, Convex Saucepans, Convex Sauce Pots, Dishpans, Double Boilers, Dippers, Fruit-Jar Fillers, French Fryers, Jelly-Cake Pans, Ladles, Lip Saucepans, Manhattan Shakers, Milk Kettles, Mixing Bowls, Ovenettes, Percolators, Pie Plates, Milk Pitchers, Water Pitchers, Pudding Pans, Preserve Kettles, Roasters, Stewpans, Vegetable or Soup Strainers, Teakettles, Teapots, and Washbasins.
Claims use since Apr. 15, 1927.

246,093. (CLASS 39. CLOTHING.) WILDFEUER BROS., New York, N. Y. Filed July 26, 1927. Serial No. 252,575.

MODERNMODE FOOTWEAR

For Leather, Cloth-Top, Satin-Top, and Metallic Cloth-Top Boots, Shoes, and Pumps.
Claims use since June 29, 1927.

246,094. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL KASSER, Philadelphia, Pa. Filed July 23, 1927. Serial No. 252,472.

Kasser's

For Malt Syrups.
Claims use since June 1, 1927.

246,095. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SMITH SEPARATOR COMPANY, Tulsa, Okla. Filed July 11, 1927. Serial No. 251,871.

EVER READY

For Well Drilling and Operating Appliances—Namely, Rod Protectors, Rod Guides, Tubing Catchers, and Fishing Tools.
Claims use since on or about May 1, 1927.

246,096. (CLASS 39. CLOTHING.) B. ALTMAN & CO., New York, N. Y. Filed July 6, 1927. Serial No. 251,530.

"Shaped for Growing Feet"

For Leather Shoes.
Claims use since Jan. 5, 1927.

246,097. (CLASS 39. CLOTHING.) J. T. MURDOCH, INC., Newark, N. J. Filed June 20, 1927. Serial No. 250,813.

MURDOCH SURGICAL SHOES

For Leather Shoes.
Claims use since June 1, 1927.

246,098. (CLASS 12. CONSTRUCTION MATERIALS.) E. D. CODDINGTON MANUFACTURING COMPANY, North Milwaukee, Wis. Filed June 18, 1927. Serial No. 250,734

Venetian Plaster

For Keen's Cement Base-Coat Plaster (Dry Mixed) Keen's Cement Finish-Coat Plaster (Dry Mixed), Keen's Cement Travertine (Dry Mixed), and Keen's Cement Caen Stone (Dry Mixed).
Claims use since on or about May 3, 1927.

246,099. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLADBROOK PACKING CO., also doing business as Gladbrook Mustard Factory, Long Beach, Calif. Filed June 15, 1927. Serial No. 250,533.

SANDWICH

For Bottled Cucumber Pickles.
Claims use since May 20, 1927.

246,100. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FLANNERY BOLT COMPANY, Wilmington, Del., and Pittsburgh, Pa. Filed May 5, 1927. Serial No. 248,485.

NU TATE

For Boiler Stay Bolts; Track, Frog, and Switch Bolts and Nuts, and Semirigid and Flexible Stay Bolts, and All Parts in Flexible Stay-Bolt Assemblages.
Claims use since Apr. 14, 1927.

246,101. (CLASS 39. CLOTHING.) SIMON SIGMUND GLICKMAN, doing business as Glico Hosiery Co., Albany, N. Y. Filed Jan. 20, 1927. Serial No. 243,086.

FLAWLESS

For Hosiery for Men, Women, and Children.
Claims use since Nov. 15, 1926.

246,102. (CLASS 12. CONSTRUCTION MATERIALS.) AMERICAN HUME CONCRETE PIPE CO., Detroit, Mich. Filed Dec. 9, 1926. Serial No. 241,197.

HUME

For Concrete Pipes, Posts, and Poles.
Claims use since June, 1925.

246,103. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) TANGALAKIS BROS., INC., Chicago, Ill. Filed Oct. 27, 1926. Serial No. 239,332.

CHICAGO

For Shoe Creams, Shoe Dressings.
Claims use since Apr. 1, 1926.

LABELS

REGISTERED AUGUST 28, 1928.

34,467.—*Title:* ROLD GOLD BUTTER PRETZELS. For Pretzels. AMERICAN CONE & PRETZEL COMPANY, Philadelphia, Pa. Published June 22, 1928.

34,468.—*Title:* NATURELLE FURS OF THE LOOM. For Pile Fabrics in the Piece. SIDNEY BLUMENTHAL & Co. INC., New York, N. Y. Published July 5, 1928.

34,469.—*Title:* BOHEMIAN PRIDE. For Malt Syrup. BOHEMIAN DISTRIBUTING CO. INC., Los Angeles, Calif. Published June 1, 1928.

34,470.—*Title:* CHASE & SANBORN'S TEA HOUSE. For Tea. CHASE & SANBORN, Boston, Mass. Published July 6, 1928.

34,471.—*Title:* IMP. For Lemons. CHULA VISTA CITRUS ASSOCIATION, Chula Vista, Calif. Published June 1, 1928.

34,472.—*Title:* ALASKA DRY. For Ginger Ale. W. B. CRANE & COMPANY, Portland, Oreg. Published January 1, 1928.

34,473.—*Title:* CUBBISON'S. For Toast. HARRY GEORGE CUBBISON, doing business as Cubbison Cracker Co., Los Angeles, Calif. Published June 15, 1928.

34,474.—*Title:* SWAGGERBONDS. For Hats. DELRAY HAT, INC., New York, N. Y. Published June 26, 1928.

34,475.—*Title:* DOWNYFLAKE COFFEE—THE FLAVOR OF HOSPITALITY. For Coffee. DOUGHNUT MACHINE CORPORATION, New York, N. Y. Published July 2, 1928.

34,476.—*Title:* U-ME-LAX. For Laxative. NENA ENGE, doing business as Nena Lax Co., New York, N. Y. Published June 20, 1928.

34,477.—*Title:* PENDENNIS (INDIVIDUAL PACKAGE). For Pure Egg Noodles. A. ENGELHARD & SONS CO., Louisville, Ky. Published June 15, 1928.

34,478.—*Title:* DR. WHITES HOREHOUND COUGH BALSAM. For Medicine for the Relief of Coughs, Colds, Hoarseness, Sore Throat, Croup, Whooping Cough. FIRST NATIONAL LABORATORIES, INC., Lehighton, Pa. Published April 30, 1928.

34,479.—*Title:* DR. WHITES HOREHOUND COUGH BALSAM. For Medicine for the Relief of Coughs, Colds, Hoarseness, Sore Throat, Croup, Whooping Cough. FIRST NATIONAL LABORATORIES, INC., Lehighton, Pa. Published April 30, 1928.

34,480.—*Title:* GRANGER FARMS MINERALIZED CANDY. For Candy. HENRY G. GRANGER, doing business as Granger Farms, Buskirk, N. Y. Published April 30, 1928.

34,481.—*Title:* IT'S GOOD FOR A WHOLE FAMILY—IT'S GOOD FOR ANY MEAL. For Cereal Product. HEP GRAIN PRODUCTS INCORPORATED, Lodi and Spencer, Ohio. Published September 1, 1927.

34,482.—*Title:* SALSA DI POMIDORO. For Canned Tomato Sauce. HERSHEL CALIFORNIA FRUIT PRODUCTS CO., INC., San Jose, Calif. Published March 1, 1928.

34,483.—*Title:* HOP-TO-IT. For Malt Syrup. HIGH-TEST MALT EXTRACT CO., Chicago, Ill. Published June 19, 1928.

34,484.—*Title:* QUALITY SHOES. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 18, 1928.

34,485.—*Title:* DESERT KING. For Fresh Grapefruit. IMPERIAL VALLEY CITRUS EXCHANGE, Brawley, Calif. Published May 25, 1928.

34,486.—*Title:* JOMALT. For Malt Syrup. JOANNES BROTHERS COMPANY, Green Bay, Wis. Published April 2, 1928.

34,487.—*Title:* KAUFFMANN'S LUNCH SERVICE. For Lunches. LOUIS F. KAUFFMANN, doing business as Kauffmann's Lunch Service, St. Louis, Mo. Published April 2, 1928.

34,488.—*Title:* ITALIA. For Dressing. EVA LONGINO, Houston, Tex. Published May 20, 1928.

34,489.—*Title:* WE—SPIRIT OF HEALDSBURG. For Fresh Apples. J. F. MILLER & SONS, Healdsburg, Calif. Published June 25, 1928.

34,490.—*Title:* WOLVERENE. For Malt Syrup. JAMES W. MILLER, doing business as Wolverene Food Products Company, Eldon, Mo. Published June 24, 1927.

34,491.—*Title:* EVEREADY LAYERBILT B BATTERY. For Electric Batteries. NATIONAL CARBON COMPANY, INC., New York, N. Y. Published March 19, 1928.

34,492.—*Title:* FULL BACK. For Lettuce. NOBUZO NOJIRI, doing business as Nojiri Fruit Co., Sacramento, Calif. Published April 14, 1928.

34,493.—*Title:* NITROUS-OXID. For Compressed Gas by Being Affixed to the Tanks or Containers in Which it is Distributed. THE OHIO CHEMICAL & MANUFACTURING COMPANY, Cleveland, Ohio. Published June 1, 1928.

34,494.—*Title:* ETHYLENE. For Compressed Gas by Being Affixed to the Tanks or Containers in Which it is Distributed. THE OHIO CHEMICAL & MANUFACTURING COMPANY, Cleveland, Ohio. Published June 10, 1928.

34,495.—*Title:* PEXEL MAKES JELLY JELL. For Unflavored Prepared Fruit Pectin for Making Jelly from Fruit Juices. THE PEXEL CO., Chicago, Ill. Published June 15, 1928.

34,496.—*Title:* PULLMAN LOAF. For Bread. POLLOCK PAPER & BOX COMPANY, Dallas, Tex. Published June 1, 1928.

34,497.—*Title:* LACOOCHEE. For Automobile Top Dressing. HARRY BRADLEE PRUDEN, doing business as Sanlando Company, Orlando, Fla. Published June 12, 1928.

34,498.—*Title:* RANDALL'S READY-TO-SERVE CHICKEN. For Canned Chicken. HOWARD M. RANDALL, Tekonsha, Mich. Published July 27, 1928.

34,499.—*Title:* SWEET AND PURE. For Flour. THE REA-PATTERSON MILLING COMPANY, Coffeyville, Kans. Published June 1, 1928.

34,500.—*Title:* DESERT GOLD UNSULPHURED. For Prunes. EUGENE RIETZKE, Beaumont, Calif. Published July 2, 1928.

34,501.—*Title:* MACALLAN. For Hosiery. ROSEKNIT HOSIERY COMPANY, Sumter, S. C. Published December 30, 1927.

34,502.—*Title:* SACKETT DE-NICOTINED JUNIOR CIGARS. For Tobacco Products for Smoking. HUBERT SACKETT, New York, N. Y. Published March 1, 1928.

34,503.—*Title:* DISH PROTECTOR NO. 2. For Water-Faucet Attachments. SEED FILTER & MANUFACTURING CO., INC., New York, N. Y. Published June 22, 1928.

34,504.—*Title:* DISH PROTECTOR NO. 3. For Hot and Cold Water Faucet Attachments. SEED FILTER & MANUFACTURING CO., INC., New York, N. Y. Published June 22, 1928.

34,505.—*Title:* ACROBATIC CLOWNS. For Sets of Rubber Type Characters. THE SUPERIOR TYPE COMPANY, Chicago, Ill. Published March 27, 1928.

34,506.—*Title:* MAMMOTH CIRCUS. For Sets of Rubber Type Characters. THE SUPERIOR TYPE COMPANY, Chicago, Ill. Published March 27, 1928.

34,507.—*Title:* MIDGET CIRCUS. For Sets of Rubber Type Characters. THE SUPERIOR TYPE COMPANY, Chicago, Ill. Published March 27, 1928.

34,508.—*Title:* TRAINED ANIMALS. For Sets of Rubber Type Characters. THE SUPERIOR TYPE COMPANY, Chicago, Ill. Published March 27, 1928.

34,509.—*Title:* PIPE-FLO DRAIN PIPE OPENER. For Chemicals for Opening and Cleansing Drains. THE VISCO CHEMICAL PRODUCTS COMPANY, Cleveland, Ohio. Published June 1, 1928.

34,510.—*Title:* JACK AND JILL. For Gelatine Dessert. GEORGE C. WILSON, doing business as Junior Food Products Company, Tyrone, Pa. Published July 1, 1928.

34,511.—*Title:* SIZZLE, SILVER CLEANER. For Sheets of Metallic Foil Employed in Removing Tarnish from Metallic Surfaces. THE WYELL LABORATORIES, Kearny, N. J. Published July 14, 1928.

34,512.—*Title:* ABSORBINE JR. For Antiseptic Liniment. W. F. YOUNG, INC., Springfield, Mass. Published July 18, 1928.

PRINTS

REGISTERED AUGUST 28, 1928.

11,184.—*Title:* COLLINGBOURNE'S 4 CORD TWINE. For Parcel-Post Twine. COLLINGBOURNE MILLS, INC., Elgin, Ill. Published July 5, 1928.

11,185.—*Title:* Z. B. T. HIS MAJESTY'S CHOICE. For Talcum Powders for Nursery and Toilet Use. THE CRYSTAL CHEMICAL COMPANY, INC., New York, N. Y. Published April 18, 1928.

11,186.—*Title:* Z. B. T. FINE FOR BABY'S BODY—FINE FOR EVERY BODY. For Talcum Powders for Nursery and Toilet Use. THE CRYSTAL CHEMICAL COMPANY, INC., New York, N. Y. Published April 18, 1928.

11,187.—*Title:* UNDER THE CHASSIS REPAIRS. For the Blue-Print Line of Bolts and Bushings. THE FOSTORIA SCREW CO., Fostoria, Ohio. Published May 1, 1928.

11,188.—*Title:* CUT-OUT COFFEE CUP & SAUCER DESIGN. For Coffee or Tea. W. L. MADDOX, doing business as The Sign Shop, Hattiesburg, Miss. Published April 15, 1927.

11,189.—*Title:* MELETIO. For Fish or Other Sea Food. MELETIO SEA FOOD COMPANY, St. Louis, Mo. Published July 5, 1928.

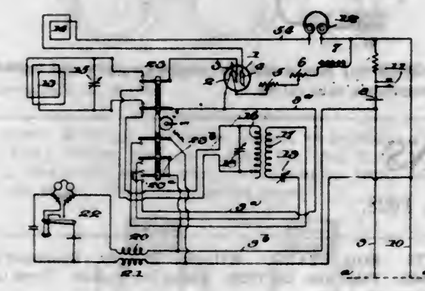
11,190.—*Title:* WOOD—BUY IT WE SUPPLY IT. For Wood Products. TIONESTA LUMBER COMPANY, Pittsburgh, Pa. Published July 14, 1928.

11,191.—*Title:* THREE KINGS CIGARETTES—YOUR TONGUE TELLS THE TRUTH. For Cigarettes. THE UNION TOBACCO COMPANY, Wilmington, Del., and New York, N. Y. Published July 10, 1928.

REISSUES

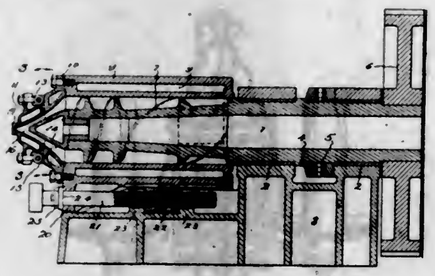
AUGUST 28, 1928.

17,069. SUBDIVIDED SERVICE SYSTEM OF RADIO BROADCAST DISTRIBUTION. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed Mar. 18, 1926. Serial No. 95,792. Original No. 1,522,362, dated Jan. 6, 1925, Serial No. 701,123, filed Mar. 22, 1924. 11 Claims. (Cl. 250—6.)



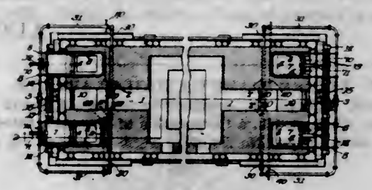
4. In a radiophone system of broadcast distribution, a central station and subscribers' stations, a network of wire lines interconnecting them, radiophone receiving sets at the subscribers' stations, a receiving antenna at each subscriber's station, means for distributing broadcast matter over the lines by wired radio and means at a subscriber's station for switching the subscriber's radio receiving apparatus from radio to wired radio.

17,070. MACHINE FOR MANIPULATING PLASTIC MATERIALS. WILLIAM A. GORDON, Shelton, Conn., assignor to Farrel-Birmingham Company, Incorporated, Ansonia, Conn., a Corporation of Connecticut. Filed Mar. 19, 1928, Serial No. 262,860. Original No. 1,608,980, dated Nov. 30, 1926, Serial No. 51,001, filed Aug. 18, 1925. 15 Claims. (Cl. 18—12.)



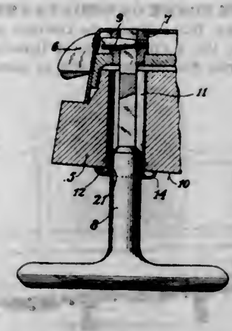
1. A machine for manipulating plastic materials comprising a rotatable shaft, a worm rotatable with the shaft for breaking up, feeding forward and masticating the material delivered thereto, a housing surrounding the worm and having an opening in the interior near the receiving end of the worm, a head attached to the housing and containing a conical kneading chamber, the taper of which extends inwardly, said chamber having a fluted wall in continuation of the housing chamber at the delivery end of the worm, and an orificed die attached to said head.

17,071. OPEN-HEARTH FURNACE. FRANK B. MCKUNE, Hamilton, Ontario, Canada, assignor, by mesne assignments, to Open Hearth Combustion Company, Chicago, Ill., a Corporation of Delaware. Filed July 2, 1928. Serial No. 290,058. Original No. 1,339,855, dated May 11, 1920, Serial No. 333,756, filed Oct. 27, 1919. Reissue No. 16,837, dated Dec. 27, 1927, Serial No. 558,754, filed May 5, 1922. 14 Claims. (Cl. 263—15.)



1. An open hearth furnace having a hearth, a gas port at each of the opposite ends, an air channel that connects with each gas port, a supplemental air channel at each end that discharges into the top of the furnace, damper controls for opening and closing the said supplemental air channels and means for supplying gas to the gas ports.

17,072. LATCH-HANDLE ESCUTCHEON AND BEARING. LEON OTTINGER, New York, N. Y. Filed May 26, 1927. Serial No. 194,501. Original No. 1,540,495, dated June 2, 1925, Serial No. 648,394, filed June 28, 1923. 16 Claims. (Cl. 292—357.)

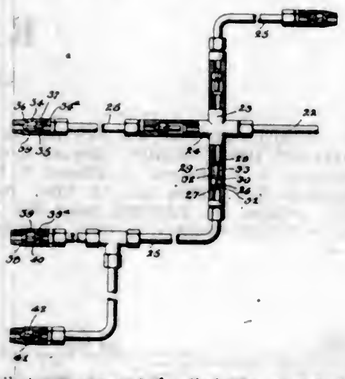


1. In combination with a door structure having a latch handle receiving opening, a latch operating rollback at one end of said opening and an operating handle adapted to be

connected to said rollback; a bearing member for the handle shaft permanently fixed in the door structure at the other end of said opening and having a continuously curved or convex surface presenting a single circumferential line of bearing contact for the handle shaft in tangential relation thereto.

17,073. AUTOMATIC LUBRICATING MECHANISM. ERNEST J. SERPAS, New Orleans, La., assignor of two-fifths to J. S. Waterman, Jr., New Orleans, La. Filed June 25, 1928. Serial No. 288,213. Original No. 1,669,351, dated May 8, 1928, Serial No. 95,959, filed Mar. 19, 1926. 8 Claims. (Cl. 184—1.)

1. In a lubricating system, the combination with relatively movable elements, of a pump mechanism carried by one element, means carried by the other element for operating said pump mechanism, a lubricant supply conduit leading into the pump mechanism, an outlet pipe extending from the pump mechanism, distributor means connected with said outlet pipe, a series of discharge pipes connected with the distributor means, a plurality of reciprocatory pressure and suction operated valves interposed between

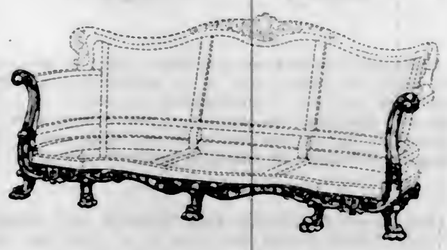


the distributor means and the discharge pipes and means to reciprocate said valves.

DESIGNS

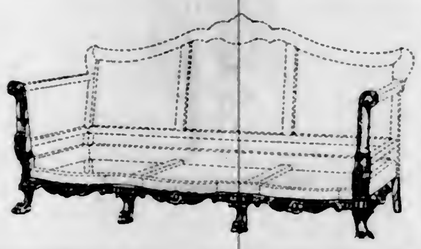
AUGUST 28, 1928.

76,175. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illinois. Filed May 14, 1928. Serial No. 26,670. Term of patent 3½ years.



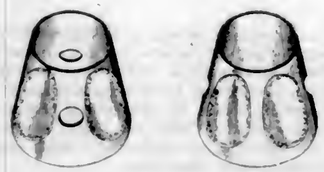
The ornamental design for a settee frame or similar article, as shown.

76,176. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illino's. Filed May 16, 1928. Serial No. 26,699. Term of patent 3½ years.



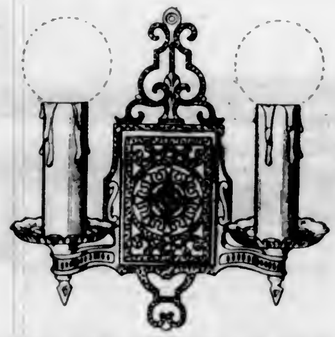
The ornamental design for a settee frame or similar article, as shown.

76,177. EGG STAND. WILLIAM BENNER, Bridgeport, Conn. Filed Jan. 19, 1928. Serial No. 24,938. Term of patent 14 years.



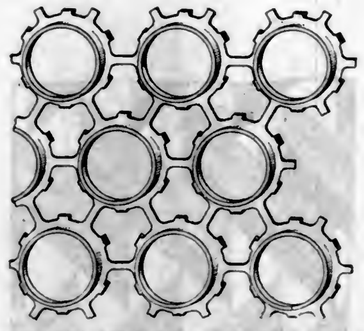
The ornamental design for an egg-stand, as shown.

76,178. LIGHTING-FIXTURE BRACKET OR ARTICLE OF SIMILAR NATURE. MAX BROWN, New York, N. Y., assignor to Royal Metal Lighting Fixture Co. Inc., New York, N. Y. Filed June 7, 1928. Serial No. 27,025. Term of patent 3½ years.



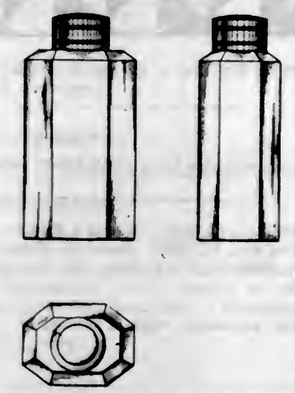
The ornamental design for a lighting fixture bracket or article of similar nature, as shown.

76,179. STEEL GRID FOR FLOORS AND PAVEMENTS. EDWARD W. BURGESS, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, W's., a Corporation of New York. Filed June 6, 1928. Serial No. 27,013. Term of patent 14 years.



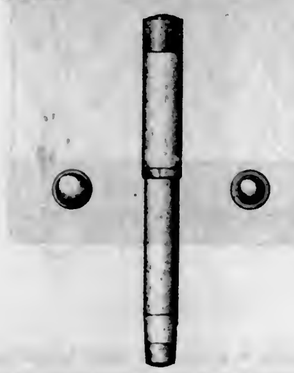
The ornamental design for a steel grid for floors and pavements, as shown.

76,180. BOTTLE. FRANÇOIS JOSEPH DE SPOTURNO COTY, Paris, France, assignor to Coty, Inc., New York, N. Y., a Corporation of Delaware. Filed May 11, 1928. Serial No. 26,631. Term of patent 14 years.



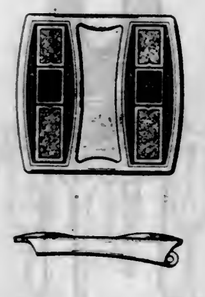
The ornamental design for a bottle as shown.

76,181. FOUNTAIN PEN. FRANK C. DELI, Chicago, Ill. Filed Apr. 16, 1928. Serial No. 26,339. Term of patent 3½ years.



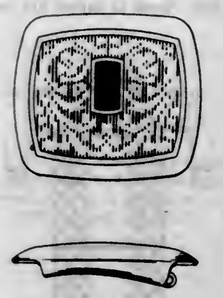
The ornamental design for a fountain pen as shown.

76,182. BELT BUCKLE. WILLIAM DIETERICH, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed May 16, 1928. Serial No. 26,702. Term of patent 7 years.



The ornamental design for a belt buckle, as shown.

76,183. BELT BUCKLE. ROBERT F. EICHNER, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed May 16, 1928. Serial No. 26,704. Term of patent 3½ years.



The ornamental design for a belt buckle, as shown.

76,184. BELT BUCKLE. ROBERT F. EICHNER, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed May 16, 1928. Serial No. 26,705. Term of patent 3½ years.



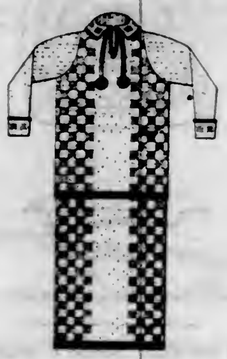
The ornamental design for a belt buckle, as shown.

76,185. RADIOCABINET. OLIVER P. FRITCHLE, Chicago, Ill. Filed May 7, 1928. Serial No. 26,600. Term of patent 14 years.



The ornamental design for a radiocabinet, as shown.

76,186. KNITTED DRESS. MIRIAM GROSS, Milwaukee, Wis., assignor to Miriam Gross Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 19, 1927. Serial No. 23,806. Term of patent 3½ years.



The ornamental design for a knitted dress, as shown.

76,187. WRAPPER FOR NEEDLES. LEONARD MORGAN HAINES, Studley, England, assignor to William Hall & Company Limited, Studley, Warwick, England. Filed Oct. 31, 1927. Serial No. 23,960. Term of patent 3½ years.



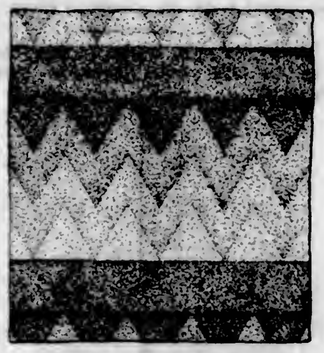
The ornamental design for a wrapper for needles, as shown.

76,188. TEXTILE FABRIC. WILLIAM HELLER, New York, N. Y. Filed Mar. 16, 1928. Serial No. 25,887. Term of patent 3½ years.



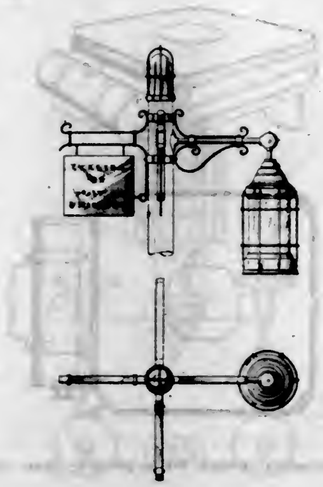
The ornamental design for a textile fabric, as shown.

76,189. TEXTILE FABRIC. WILLIAM HELLER, New York, N. Y. Filed Mar. 16, 1928. Serial No. 25,888. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

76,190. COMBINED STREET LAMP AND SIGN BRACKET. OLIVER JEROME HELVEY, La Crescenta, Calif. Filed May 22, 1928. Serial No. 26,804. Term of patent 3½ years.

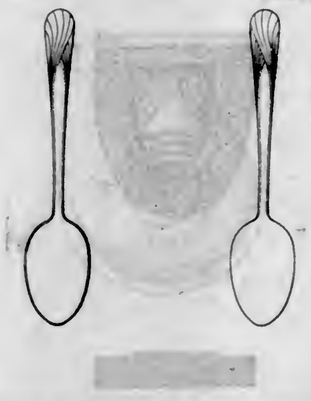


The ornamental design for a combined street lamp and sign bracket, as shown.

76,191. [WITHDRAWN.]

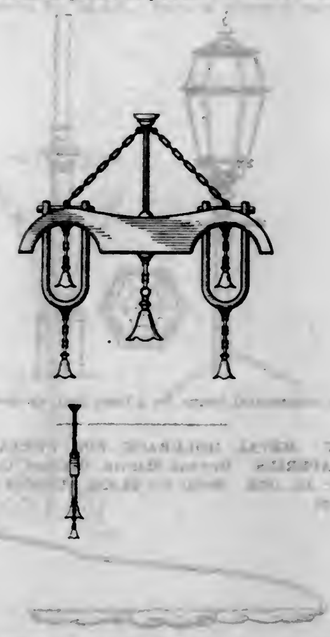
76,192. [WITHDRAWN.]

76,193. SPOON OR SIMILAR ARTICLE. ALFRED G. KINTZ, Wallingford, Conn., assignor to International Silver Company, Meriden, Conn., a Corporation of Connecticut. Filed June 9, 1928. Serial No. 27,061. Term of patent 7 years.



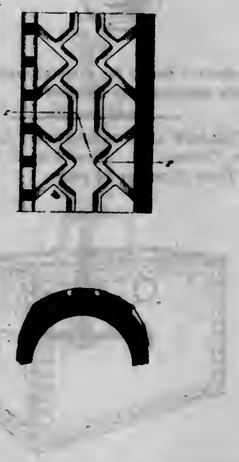
The ornamental design for a spoon or similar article, as shown.

76,194. ELECTRIC-LIGHTING FIXTURE. SAMUEL N. KNOAR, Lagrange, Wyo. Filed May 21, 1928. Serial No. 26,780. Term of patent 14 years.



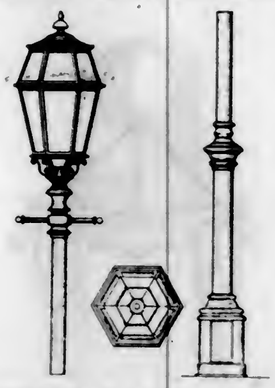
The ornamental design for an electric lighting fixture, as shown.

76,195. TIRE CASING. FREDERICK LEOPOLD, Jr., Harmonville, Pa., assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa., a Corporation of New York. Filed Jan. 31, 1928. Serial No. 25,104. Term of patent 14 years.



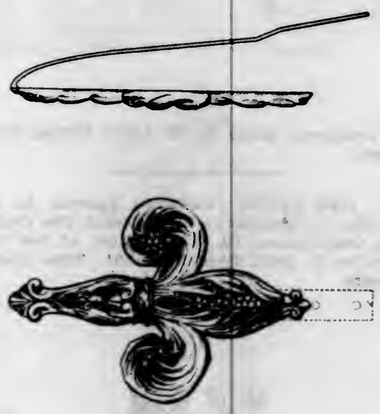
The ornamental design for a tire casing substantially as shown.

76,196. LAMP-POST. EARL KEITH LOCKARD, Santa Barbara, Calif. Filed Apr. 4, 1928. Serial No. 26,122. Term of patent 7 years.



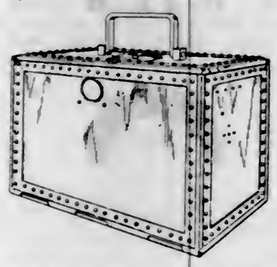
The ornamental design for a lamp post, as shown.

76,197. METAL HOLDBACK FOR CURTAINS AND DRAPERIES. GUNNAR MADVIG, Oakland, Calif. Filed Mar. 13, 1928. Serial No. 25,328. Term of patent 3½ years.



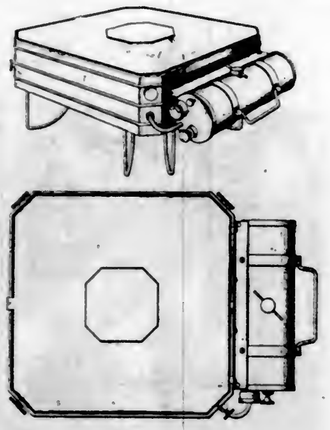
The ornamental design for a metal holdback for curtains and draperies substantially as shown.

76,198. STORAGE AND CARRYING CASE. MICHAEL W. MCARDLE, Chicago, Ill. Filed July 9, 1926. Serial No. 18,283. Term of patent 14 years.



The ornamental design for a storage and carrying case substantially as shown and described.

76,199. PORTABLE CAMP STOVE. CLYDE W. MUMMERY, Detroit, Mich. Filed Sept. 7, 1926. Serial No. 18,987. Term of patent 14 years.



The ornamental design for a portable camp stove as shown.

76,200. ORNAMENTED PAPER. JOHN WALLACE NEFF, Easton, Pa. Filed Aug. 18, 1927. Serial No. 23,141. Term of patent 3½ years.

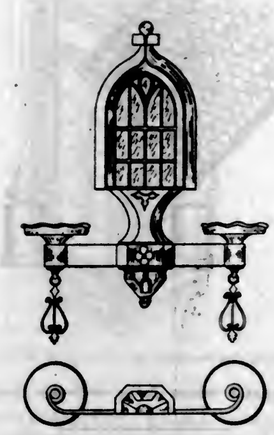
The ornamental design for ornamented paper as shown.

76,201. SHOE HEEL. LAURENCE M. OAKLEY, Trenton, N. J. Filed Oct. 22, 1927. Serial No. 23,842. Term of patent 14 years.



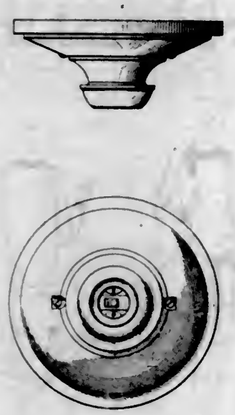
The ornamental design for a shoe heel as shown.

76,202. WALL BRACKET FOR LIGHTING FIXTURES. ISIDOR ROSENBLATT, Brooklyn, N. Y. Filed May 21, 1928. Serial No. 26,791. Term of patent 3½ years.



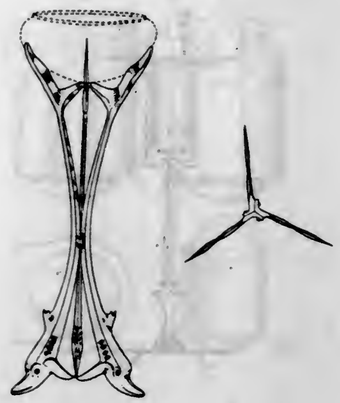
The ornamental design for a wall bracket for lighting fixtures, as shown.

76,203. CEILING FIXTURE. MARK N. RUSSELL, Syracuse, N. Y., assignor to Pass & Seymour, Inc., Solvay, N. Y., a Corporation of New York. Filed Nov. 18, 1927. Serial No. 24,203. Term of patent 7 years.



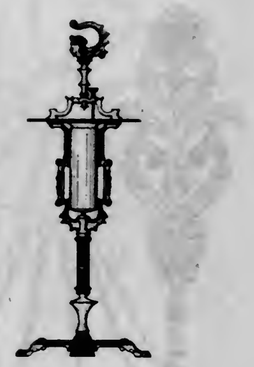
The ornamental design for a ceiling fixture substantially as shown.

76,204. AQUARIUM STAND. RICHARD RYCHTARIK, Cleveland, Ohio, assignor to The Superior Foundry Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 23, 1928. Serial No. 26,424. Term of patent 7 years.



The ornamental design for an aquarium stand as shown.

76,205. SMOKER'S STAND. ADRIAN C. SCHARFF, Orange, Conn. Filed May 14, 1928. Serial No. 26,667. Term of patent 3½ years.



The ornamental design for a smoker's stand substantially as shown.

76,206. SMOKER'S STAND. ADRIAN C. SCHARFF, Orange, Conn. Filed May 14, 1928. Serial No. 26,668. Term of patent 3½ years.



The ornamental design for a smoker's stand substantially as shown.

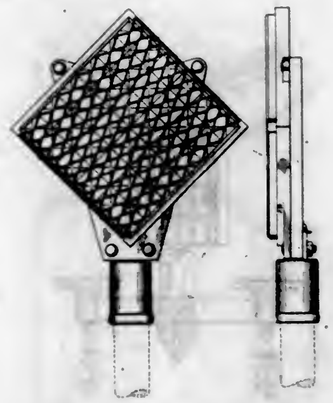
76,207. ARM FOR WALL BRACKETS OR THE LIKE. ALFRED P. SEIDELL, Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co., a Corporation of New Jersey. Filed June 8, 1928. Serial No. 27,057. Term of patent 7 years.





The ornamental design for an arm for wall brackets or the like substantially as shown.

76,208. HIGHWAY DANGER SIGNAL. ERVIN E. SMITH, Canton, Ohio. Filed Aug. 17, 1926. Serial No. 18,770. Term of patent 7 years.



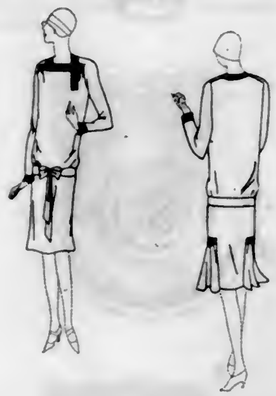
The ornamental design for a highway danger signal, as shown.

76,209. RING. LAURENCE G. STEWART, St. Louis, Mo. Filed June 22, 1927. Serial No. 22,522. Term of patent 14 years.



The ornamental design for a ring, as shown.

76,210. DRESS. GRACE TANCILL, St. Louis, Mo. Filed Mar. 7, 1928. Serial No. 25,719. Term of patent 14 years.



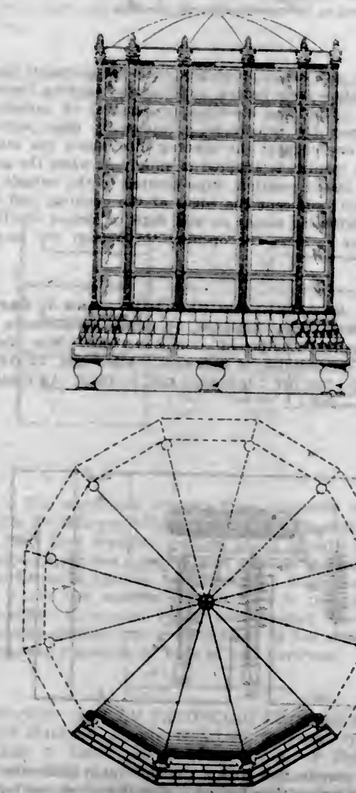
The ornamental design for a dress, substantially as shown and described.

76,211. THERMOSTAT MOUNTING. EUGENE T. VINCENT, Boston, Mass. Filed June 16, 1928. Serial No. 27,168. Term of patent 7 years.



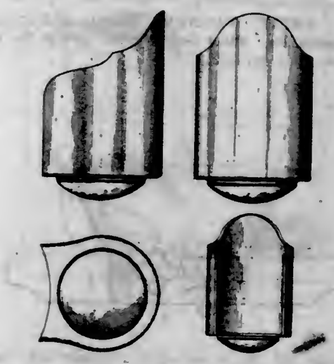
The ornamental design for a thermostat mounting, as shown.

76,212. DISPLAY CABINET. RUSSELL S. WALKER, Duluth, Minn., assignor to Information Cabinet Company, St. Louis, Mo., a Corporation of Delaware. Filed Jan. 27, 1927. Serial No. 20,521. Term of patent 8½ years.



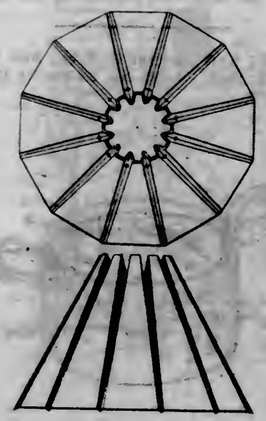
The ornamental design for a display cabinet, as shown.

76,213. LIGHTING-FIXTURE SHADE. RICHARD WILLIAMSON, Chicago, Ill., assignor to R. Williamson & Company, Chicago, Ill., a Corporation of Illinois. Filed June 14, 1928. Serial No. 27,122. Term of patent 14 years.



The ornamental design for a lighting fixture shade, as shown.

76,214. LAMP SHADE. MILTON B. WUNDER, Philadelphia, Pa., assignor to Milton B. Wunder Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 21, 1928. Serial No. 26,417. Term of patent 3½ years.

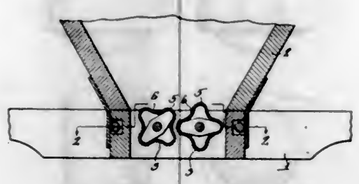


The ornamental design for a lamp shade, as shown.

PATENTS

GRANTED AUGUST 28, 1928.

1,681,920. FRUIT CRUSHER. RAFFAELE BACCELLIERI, Philadelphia, Pa. Filed Dec. 8, 1925. Serial No. 73,966. 5 Claims. (Cl. 83—12.)

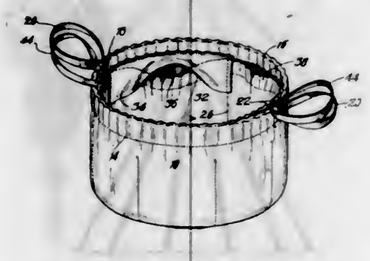


1. In a fruit crusher, parallel lobular crushing rolls having V-shaped grooves extending longitudinally of their peripheries with the apices of the grooves falling in parallel planes which are tangential to the axis of the roll and the sides of each groove disposed on either side of the plane passing through its apex.

1,681,921. METHOD OF TREATING ALUMINUM-CONTAINING MINERALS. WILLIAM G. BJORKSTEDT, Jamaica, N. Y. Filed Jan. 26, 1927. Serial No. 163,604. 10 Claims. (Cl. 23—141.)

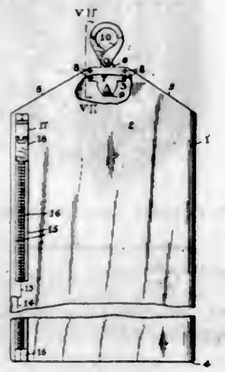
1. A method of treating aluminum containing minerals which comprises heating the same with ammonium sulphate and bringing the aluminum into solution and then precipitating the same with ammonium sulphite.

1,681,922. KIT BAG. LOUISE H. BOCH, New York, N. Y. Filed May 8, 1925. Serial No. 28,764. 1 Claim. (Cl 150—11.)



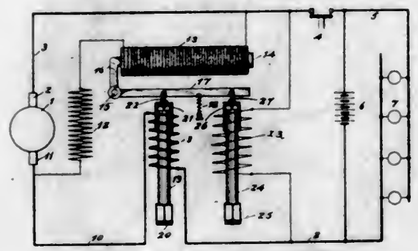
An article of manufacture comprising a bag having an inner lining secured to the bag at spaced intervals to form pockets and draw strings at the top of the bag and at the top of the lining respectively adapted to simultaneously collapse the bag and said lining.

1,681,923. GARMENT BAG. WILLIAM BURNS COLLINS, Beverly Hills, Calif. Filed Feb. 12, 1926. Serial No. 87,788. 3 Claims. (Cl. 206—7.)



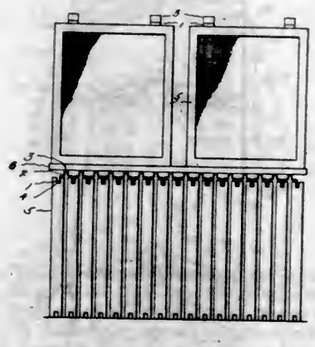
3. A dust and insect proof receptacle for garments comprising a hollow body having an elongated opening formed therein to permit the insertion or removal of garments into and from the receptacle, a trough-like edge portion formed on one edge of the opening into which the other edge of the opening is adapted to snugly fit when the garment is in closed position, flaps secured to the outside of the receptacle adjacent the edges of the opening, and cooperating fastening means on said flaps to form a continuous fastener to close the opening throughout the length thereof.

1,681,924. ELECTRIC REGULATION. JOHN L. CREVELING, Oracle, Ariz., assignor, by mesne assignments, to The Simplex Equipment Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 22, 1924, Serial No. 708,191. Renewed Jan. 5, 1928. 18 Claims. (Cl. 171—229.)



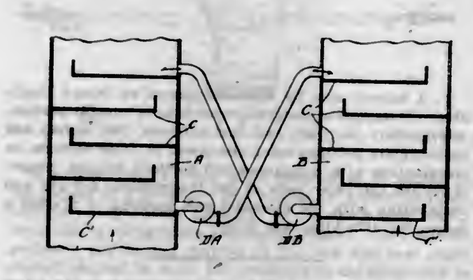
1. The combination with a variable speed generator and regulating means therefor, of a plurality of means for operating the regulating means and means connecting said operating means including a dashpot.

1,681,925. SCREEN-HOLDING CLIP. WILLIAM C. ANDERSON, Hartford, Conn. Filed Feb. 17, 1928. Serial No. 254,967. 1 Claim. (Cl. 34—26.)



A clip for spacing freshly painted or enameled window screens, which is bent to shape from a single piece of relatively rigid metal and has legs spaced apart a greater distance than the thickness of the screen frames, which legs extend downward from substantially horizontal sections that are joined by an upwardly extending handle loop.

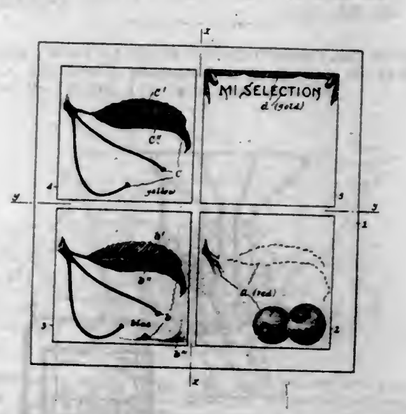
1,681,926. HEAT TRANSFER. JOHN E. BELL, Brooklyn, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 17, 1923. Serial No. 663,107. 7 Claims. (Cl. 257—1.)



1. The method of effecting a heat transfer between two fluids at different temperatures which consists in passing a fluid heat transfer medium along a path of flow including a portion in which said medium absorbs heat from the hotter of the two first mentioned fluids and a portion in which said medium imparts heat to the cooler of the two first mentioned fluids, and dividing the fluid heat transfer medium into a multiplicity of fine streams of predetermined fineness in each of said portions.

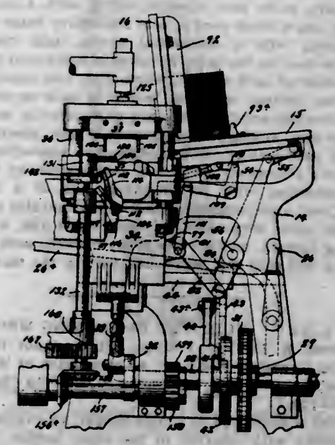
1,681,927. ART OF PRODUCING PRINTED PICTURES IN COLORS. LOUIS W. BLISS, Paterson, N. J. Filed July 6, 1927. Serial No. 203,758. 2 Claims. (Cl. 101—211.)

1. The hereindescribed method of producing surfaces for printing a picture illustrative of objects appearing in several colors which consists in preparing, in separate fields of a single surface and in contrast therewith, original images of the respective areas to be occupied by the different colors to be present in such picture, then preparing



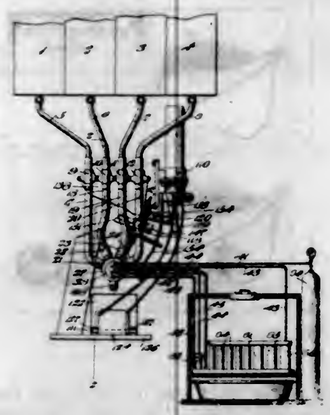
a single photographic negative of all the images while preserving said surface intact, and then preparing the surfaces for the printing from such negative.

1,681,928. BLANKING AND TRANSFERRING MECHANISM FOR BOX-MAKING MACHINES. ORPH W. COWGILL, St. Louis, Mo., assignor to St. Louis Label Works, St. Louis, Mo., a Corporation of Missouri. Original application filed Jan. 19, 1923, Serial No. 613,632. Divided and this application filed Aug. 10, 1925. Serial No. 49,418. 15 Claims. (Cl. 93—58.)



3. A blank cutting mechanism for box making machines comprising a stationary die member, a punch member mounted above and cooperating therewith, and means yieldingly mounted in said stationary die member for yieldingly supporting the material at a plurality of points above the face of and in spaced relation with said stationary die member.

1,681,929. MIXED-BEVERAGE-VENDING APPARATUS. WILLIAM C. DE ARMOND and WILLIAM RAY H. WATT, Philadelphia, Pa., assignors to Gravity Carbonator Company, Philadelphia, Pa., a Corporation of Delaware. Filed Mar. 27, 1925. Serial No. 18,653. 11 Claims. (Cl. 225—21.)



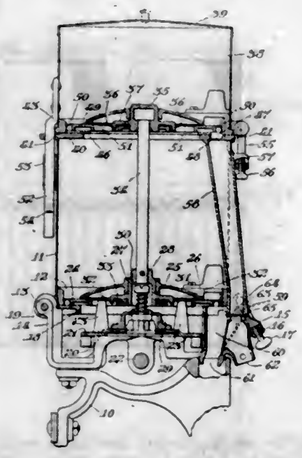
5. In a device of the character stated, a door, a serving platform adapted to receive a receptacle, a discharging nozzle above and in vertical alignment with the receptacle, means to retain said door in a locked position with the platform free, and means actuated by the weight of the liquid in the receptacle for releasing said locking means.

7. In a device of the character stated, a control valve having a casing, a stationary valve face carried by said casing, a rotatable valve disc mounted in said casing, and having a movable valve face juxtaposed to said stationary face, a port in said stationary valve face communicating with a source of carbonating gas supply, a port in said stationary valve face, communicating with a carbonating battery and a third port in said stationary valve face communicating with a measuring device, said three ports being located on the same circle with respect to the center of rotation of said movable valve disc, and equally spaced from the central port, two ports in said movable valve face, interconnected within said valve disc by means of a passage-way, adapted to connect said first mentioned stationary port with either one of the two succeeding stationary ports alternately, a port in said stationary valve face communicating with the discharge end of a measuring device, and a corresponding port in the movable valve face, an axial valve stem carried by said valve disc, a discharge opening therein, and a passageway between said discharge opening and said last mentioned port in the movable disc.

1,681,930. MULTIPLE DISPENSING MECHANISM. SAMUEL K. DENNIS, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Feb. 27, 1926. Serial No. 91,010. 13 Claims. (Cl. 221—122.)

1. The combination of a main hopper, an auxiliary hopper superposed with relation to the main hopper, dispensing mechanism in each hopper, a discharge chute in communication with each dispensing mechanism, means for driving both dispensing mechanisms, and means for mounting the auxiliary hopper so that it may be bodily lifted to disconnect the drive for its dispensing mechanism and thereafter swung aside so as to uncover the main hopper and permit access thereto.

8. The combination of a main hopper, an auxiliary hopper superposed with relation to the main hopper, dispensing mechanism in each hopper, a discharge chute for each dispensing mechanism, means for driving both dispensing mechanisms, and means for mounting the auxiliary hopper so that it may be bodily lifted to disconnect the drive for



its dispensing mechanism and thereafter moved so as to uncover the main hopper without tipping the auxiliary hopper.

1,681,931. BALANCE ARM FOR WINDOWS. EDWARD H. ELLISON, Jamestown, N. Y., assignor to Austral Window Company, New York, N. Y., a Corporation of Maine. Filed Jan. 27, 1925. Serial No. 5,035. 4 Claims. (Cl. 20—40.)



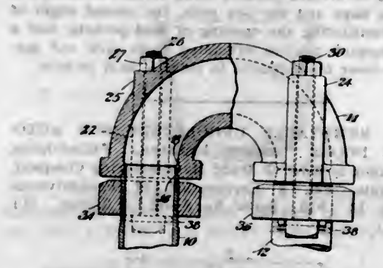
1. A balance arm for windows formed up from a single sheet of stampable material comprising a central portion, intermediate portions, and end portions, the central and intermediate portions being channeled in cross sections, in combination with companion end portions secured, respectively, to the outer ends of the intermediate portion and cooperating with the aforesaid end portions to provide a means for attaching sash bolts.

1,681,932. METHOD OF MANUFACTURING BALANCE ARMS FOR WINDOWS. EDWARD H. ELLISON, Jamestown, N. Y., assignor to Austral Window Company, New York, N. Y., a Corporation of Maine. Filed Jan. 27, 1925. Serial No. 5,034. 14 Claims. (Cl. 29—148.)



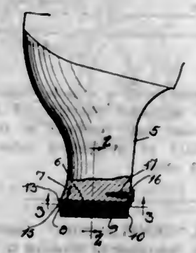
1. The method of manufacturing a balance arm for windows which consists in cutting a flat blank from the raw stock, subjecting said blank to a pressing operation to effect a formed-up arm channeled in cross section, subjecting said formed-up arm to a punching operation to provide its center and ends with pivot holes, and also subjecting the formed-up arm to a second forming operation to square the edges at the center thereof.

1,681,933. RETURN BEND. JAMES P. FISHER, Bartlesville, Okla., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 20, 1920. Serial No. 375,213. 1 Claim. (Cl. 285—20.)



A return bend for pipe stills having a curved body forming a conduit, the ends of said conduit lying substantially in a given plane, a pair of apertured lugs fixed to said body near each end thereof, the lugs of each pair lying on opposite sides of the respective ends of the bend and having their apertures closely adjacent the respective mouths of the conduit, said lugs of each pair extending in a straight line along the body of the bend and a pronounced shoulder on the outer surface of the body of the bend connecting the lugs of each pair at their ends remote from the mouths of said conduit.

1,681,934. SHOE HEEL. ROBERT FULLI, New York, N. Y. Filed Nov. 21, 1927. Serial No. 234,719. 1 Claim. (Cl. 36—36.)



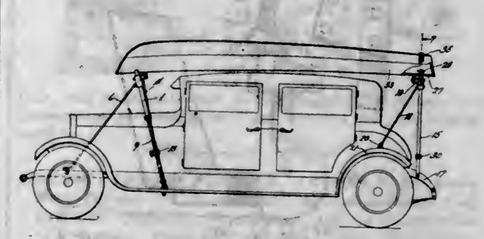
In a shoe heel, a main plate adapted to be nailed to the bottom of a heel body and having an apertured flange forming an open-front guideway on its under side, and a tread lift carrying plate removably slidably fitted in said guideway and having tongues on the side and rear edges thereof adapted to enter the apertures of the flange and to be clinched at the outer side of the latter.

1,681,935. JORDAN ENGINE. HERMAN R. HARRIGAN, Holyoke, Mass., assignor to E. D. Jones & Sons Co., Pittsfield, Mass., a Corporation of Massachusetts. Filed May 11, 1926. Serial No. 108,437. 10 Claims. (Cl. 92—27.)



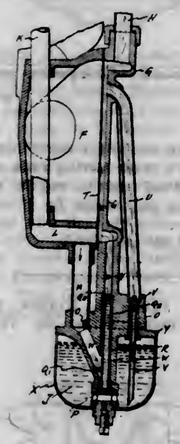
1. In a refining engine, a shell provided with grinding bars extending the length of the shell, other grinding bars shorter than the shell and extending to one end thereof and located between the longer bars, filler blocks separating certain of the bars, the ends of the shorter bars being acutely bevelled in the direction of the passage of stock through the shell, a core or plug cooperating with the shell, and means for effecting a relative adjustment of the core and shell.

1,681,936. BOAT CARRIER FOR AUTOMOBILES. GOLDEN A. HILLSTROM, Chicago, Ill. Filed Sept. 30, 1927. Serial No. 222,988. 11 Claims. (Cl. 224—29.)



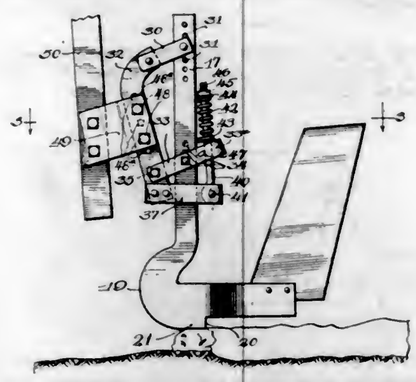
1. Means for supporting a boat on an automobile, comprising a pair of inverted U-shaped risers respectively secured to forward and rear portions of the automobile and both extending above the automobile, means for securing the top of one riser to a single point on the boat, the other riser having its bight disposed for supporting two opposite edge portions of the boat, and means associated with the last named riser for clamping the boat to the latter.

1,681,937. VAPORIZING DEVICE. GEORGE M. HOLLEY, Detroit, Mich. Filed Nov. 24, 1924. Serial No. 751,819. 2 Claims. (Cl. 261—13.)



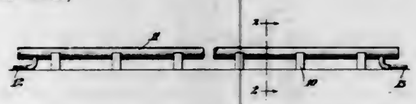
2. A vaporizing device adapted for use in conjunction with an internal combustion engine, comprising an exhaust manifold having an opening therein, a vaporizing element located in said opening, a cover for said vaporizing element, a conduit communicating with the atmosphere leading to said vaporizing element, a fuel nozzle discharging into said conduit, a vapor outlet from said conduit located in said cover, an additional air passage, a fuel nozzle discharging therein, said passage having an outlet located in said cover adjacent said outlet from said vaporizing element, means for delaying the discharge of said second fuel nozzle until the depression in said vapor outlet reaches a predetermined minimum depression.

1,681,938. RUNNER OPENER. LEE H. KAUPKE, Rock Island, Ill., assignor to Rock Island Plow Company, Rock Island, Ill., a Corporation of Illinois. Filed Sept. 14, 1925. Serial No. 56,142. 9 Claims. (Cl. 97—112.)



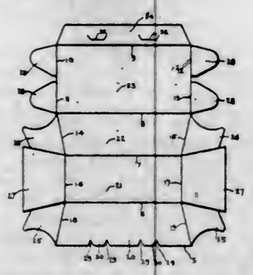
1. A runner opener adapted for attachment to a planter, comprising a single vertically disposed standard and supporting means therefor, a horizontally disposed member connected therewith provided with a sharpened blade forming a skag, the extreme lower sharpened edge of said skag being substantially in vertical alinement with said standard and the point of connection with its supporting means.

1,681,939. TUNNEL KILN. JAMES KELLEHER, Chippawa, Ontario, Canada, assignor to Harper Electric Furnace Corporation, a Corporation of New York. Filed July 17, 1925. Serial No. 44,184. 4 Claims. (Cl. 25—142.)



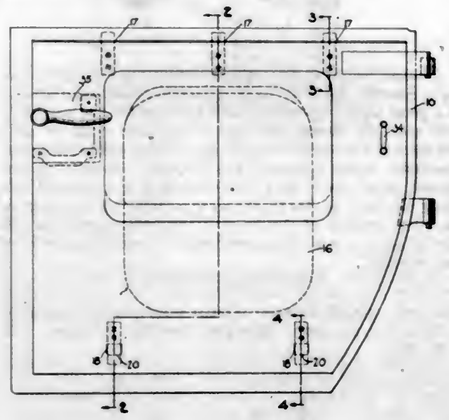
1. In a tunnel kiln means for conveying material therethrough comprising a track having rails composed of hollow tube sections fitted end to end in abutting contact to form a continuous rail, means for circulating a cooling medium in one direction through said tube sections, and a carrier supported by said track.

1,681,940. BOX. JAMES G. LANDER, Milwaukee, Wis. Filed Dec. 18, 1925. Serial No. 76,247. 1 Claim. (Cl. 229—33.)



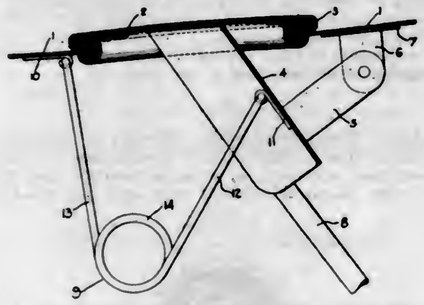
A non-folding box composed of a single piece of material, having a bottom, inwardly tapered ends and sides extending therefrom, a top extending from the rear side, a flap joining the front edge of the top, flaps extending from both sides over-lapping each other and the ends, the upper edges of the flaps being inwardly curved, staples extending through the over-lapped portions of said flaps, a pair of divided pockets being formed at each end between the flaps and the box ends, the curved edges of said flaps facilitating the opening of said pockets, and a pair of separated tongues extending from each end portion of the cover for lodgment in pairs of said pockets.

1,681,941. REMOVABLE UPHOLSTERY FOR AUTOMOBILE DOORS. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edw. G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 13, 1925. Serial No. 8,902. 3 Claims. (Cl. 296—44.)



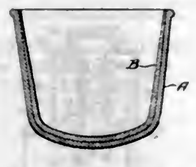
1. The combination with a vehicle door body having a plurality of slots arranged therein, of a substantially flat upholstery frame unit resilient in its entirety and carrying a plurality of projecting tabs or tangs inserted within said slots.

1,681,942. COWL VENTILATOR. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 20, 1926. Serial No. 149,705. 6 Claims. (Cl. 98—2.)



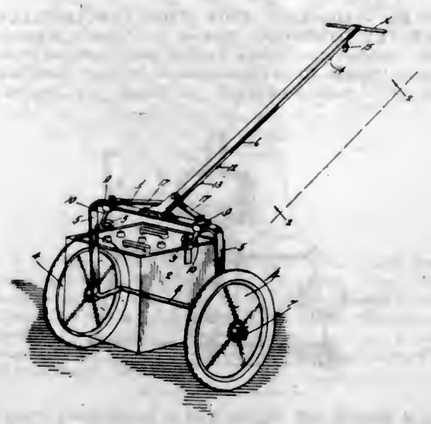
5. In combination, an automobile body panel of sheet metal having a ventilator opening therein, a rubber gasket enclosing within the body of its cross section the edges of said opening and supported in position by virtue of such enclosure, together with a cover for said opening arranged to bear upon said gasket in closed position.

1,681,943. LADLE LINING. JAMES V. MARSHALL, New Castle, Pa., assignor to New Castle Refractories Company, New Castle, Pa., a Corporation of Delaware. Filed Dec. 18, 1925. Serial No. 76,185. 4 Claims. (Cl. 22—81.)



1. A ladle lining comprising a cup-shaped body of hardened refractory material adapted to be inserted in and form a lining for a molten metal holding ladle.

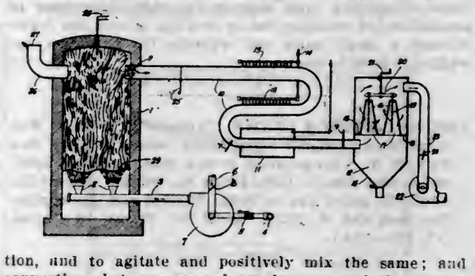
1,681,944. TRUCK FOR STORAGE BATTERIES. THOMAS MARSHALL, Jr., Chicago, Ill. Filed Aug. 5, 1926. Serial No. 127,290. 6 Claims. (Cl. 214—65.5.)



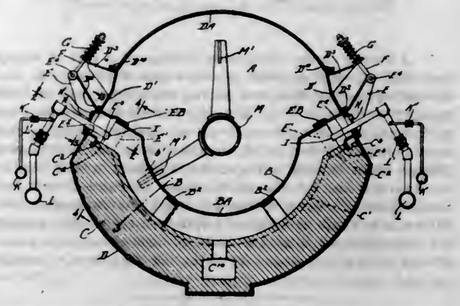
1 A two-wheeled truck for handling an object having a pair of laterally spaced portions formed to be gripped, comprising a rigid frame of inverted U-shaped vertical section consisting of a horizontal top bar and a pair of depending arms spaced by a distance greater than the object, two wheels respectively journaled to the two arms on a common axis disposed for supporting the frame with the said top bar higher than the spaced portions of the object; a tongue secured to the middle of the top bar and extending rearward transversely of the top bar; a pair of hook members slidably mounted on the top bar at opposite sides of the tongue and depending from the tongue, the top bar and the hook members being formed for preventing rotation of the hook members about the top bar; a control member mounted on the tongue for slidable movement longitudinally of the latter, a pair of links directly connecting the forward end of the control member with the hook members, and a handle on the control member adjacent to the free end of the tongue for manipulating the control member.

1,681,945. APPARATUS FOR PRODUCING CARBON. CHAUNCEY MATLOCK, Brooklyn, N. Y., assignor to Monroe-Louisiana Carbon Company, Monroe, La., a Corporation of Delaware. Original application filed Jan. 5, 1921. Serial No. 435,071. Divided and this application filed June 11, 1923. Serial No. 644,722. 5 Claims. (Cl. 134—60.)

1. In an apparatus for separating and recovering carbon black from a hydrocarbon gas, the combination of a furnace; gas burners positioned within said furnace; a gas mixing machine adapted to receive gas and air in proportional quantities insufficient for complete combustion, and to agitate and positively mix the same; and connections between several gas burners and the mixing machine.

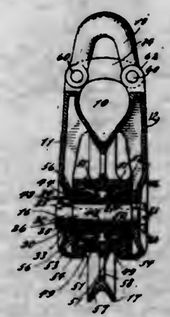


1,681,946. RETORT FURNACE. CHARLES V. MCINTIRE, East Orange, N. J., assignor to Consolidated Coal Products Company, Wilmington, Del., a Corporation of Delaware. Filed July 15, 1924. Serial No. 726,217. 10 Claims. (Cl. 202—9.)



1. A horizontally disposed retort comprising a bottom part of refractory material having a trough shaped upper surface with transverse grooves formed therein, a metallic lining for said surface formed of arc shaped sections of inverted trough shape in transverse section, with the outer edges of the trough sides received in said grooves, and means for passing heating gases through the flue spaces formed within said sections above said surface.

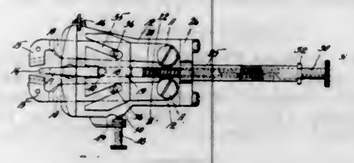
1,681,947. SHEAVE BLOCK. JAMES M. MEANY and HOWARD D. NORRIS, Portland, Oreg., assignors to Lidgerwood Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Oct. 12, 1926. Serial No. 141,055. 15 Claims. (Cl. 254—192.)



1. In a sheave block, side frames, an axle member secured to one of said frames and provided at its free end with lugs, the other side frame being provided with lugs cooperating

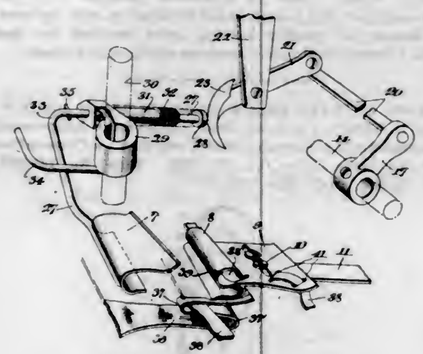
with those of the axle and also provided with an opening through which the lugs of said axle are received, the engaging faces of the lugs of said axle and those of the side frame comprising cams whereby the side frames may be assembled and disassembled by rotation of one side frame through a small angle and whereby the parts may be wedgingly held in position.

1,681,948. BUTTON CLAMP. HAROLD W. MORRIS, Waltham, Mass., assignor to Frederick Osann Company, New York, N. Y., a Corporation of New York. Original application filed June 7, 1923, Serial No. 643,897, Patent No. 1,606,173, dated Nov. 9, 1926. Divided and this application filed Oct. 9, 1925. Serial No. 61,524. 3 Claims. (Cl. 112—114.)



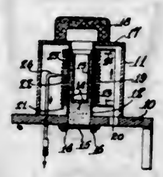
1. A button clamp comprising a support, a pair of clamping elements each pivoted to said support at one end, and having oppositely disposed button-engaging faces at their opposite ends, a member slidable on said support between said clamping elements and having a button-engaging face cooperating with the button-engaging faces of said elements, pins on said elements riding in inclined slots in said member to cause a simultaneous approach and recession of said button-engaging faces, a spring for urging said member in a direction to cause said faces to approach each other, a member actuable to move said slidable member against the action of said spring, and means for adjusting the pressure exerted on said slidable member by said spring.

1,681,949. DUPLEX FOLDER. ZOLTAN V. MORVAY, Bridgeton, N. J. Filed Sept. 16, 1926. Serial No. 135,757. 2 Claims. (Cl. 112—152.)



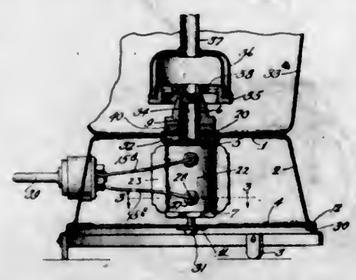
2. An attachment for sewing machines comprising a pair of plates, means for actuating said plates toward and away from each other, one plate having an S-shaped cross-sectional configuration throughout its length, the other plate being curved to simulate the curvature of a portion of the other plate and adapted to cooperate therewith to form a tuck in material passed between the plates, and said S-shaped plate having a tube formed by one of its bends to receive and guide a tape element to position in the tuck for the purpose defined.

1,681,950. MULTIPLE-PATH WATER-COOLED FURNACE. EDWIN F. NORTHRUP, Princeton, N. J., assignor to Ajax Electro-Thermic Corporation, Trenton, N. J., a Corporation of New Jersey. Filed July 13, 1923. Serial No. 651,398. 21 Claims. (Cl. 266—15.)



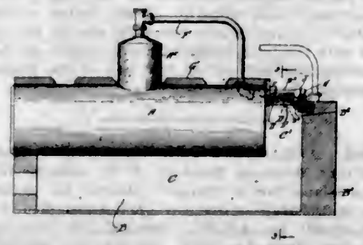
1. In an electric furnace, a hollow inductor furnace coil of highly conducting tubular material, in combination with means for supporting the charge to be heated within the coil and a source of water cooling therefor providing multiple paths from inlet to discharge through different sections of the coil.

1,681,951. HEATING UNIT FOR ELECTRICALLY-HEATED UTENSILS. EDWARD S. PRESTON, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 23, 1928. Serial No. 248,827. 14 Claims. (Cl. 219—44.)



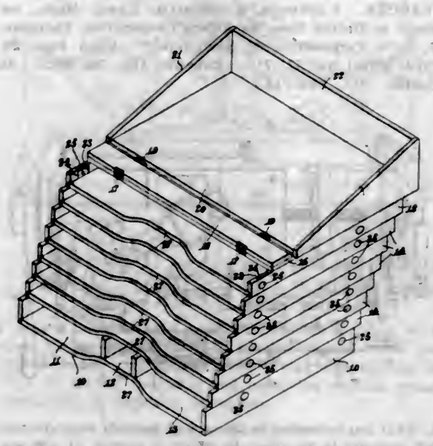
1. A heating unit for use with a flat-bottomed utensil, comprising a casing having a central depression in its top and a perforation through the said depression, a heat-transmitting member having its main portion within the casing and having a stem extending upwardly through the said perforation, and means housed by the depression and associated with the stem for clamping the said member to the said top.

1,681,952. RETURN TUBULAR SUPERHEATER BOILER. JOHN PRIMROSE, Richmond, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 29, 1923. Serial No. 615,636. 4 Claims. (Cl. 122—461.)



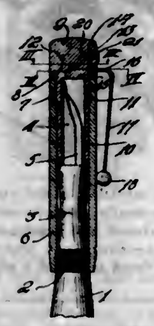
4. In a return tubular boiler furnace having housing walls at the sides and rear end of the portion of the furnace chamber at the rear of the boiler, the improvement which consists in a superheater forming a roof for said chamber portion and comprising headers mounted on the housing wall at the sides of said chamber portion, and tubes each comprising a body portion extending across said chamber portion and having their extremities connected to said headers.

1,681,953. MULTIPLE-TRAY CABINET. HENRY C. SABIN, Winthrop, Mass. Filed Jan. 26, 1928. Serial No. 249,541. 4 Claims. (Cl. 312—186.)



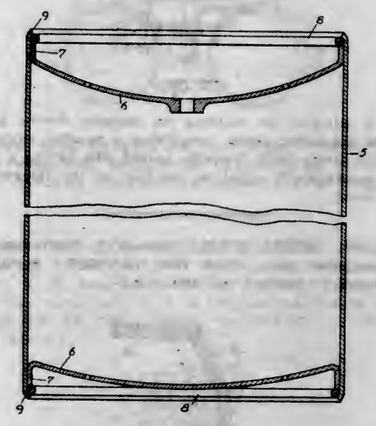
1. A cabinet consisting of a base tray with an open front, other open ended trays superimposed thereon, parallel bars each pivotally connected to all of said trays and movable about their pivots to bring each tray set back from the tray immediately beneath it and resting thereon, and a cover hinged to the upper tray adapted to close the fronts of all of said trays.

1,681,954. FOUNTAIN-PEN CLIP. SOLOMON M. SAGER, Chicago, Ill., assignor to The Sager Pen Corporation, a Corporation of Delaware. Filed June 13, 1927. Serial No. 198,460. 14 Claims. (Cl. 24—11.)



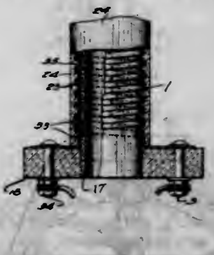
1. The combination with a fountain pen cap having a groove therein, of a plug for closing one end of said cap, a clip, a ball formed on one end thereof, an arm integrally formed on the other end of said clip adapted to project inwardly between the plug and cap, a retaining plate integrally formed on said arm and adapted to project into the groove in said plug, and teeth integrally formed on said plate adapted to project into the groove of said fountain pen cap.

1,681,955. CONTAINER. ALAN M. SCAIFE, Pittsburgh, Pa., assignor to Wm. B. Scaife & Sons Company, a Corporation of Pennsylvania. Filed May 4, 1927. Serial No. 188,677. 2 Claims. (Cl. 220—73.)



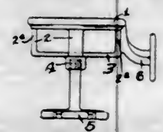
1. A container for volatile hydrocarbons including a shell, a closure member having an outwardly-extending annular flange secured by brazing within said shell and spaced from the end thereof, an annular member also secured by brazing within the shell and abutting the edge of the flange of said closure member to form a protecting means against destructive impacts sustained by the brazed joint of the closure member, and an additional means on the shell for retaining the ring in abutting relation to the flange of the closure, said annular member partially over-hanging the edge of the closure-flange to provide a hand-grip for the container.

1,681,956. PROCESS OF MAKING ELECTRICAL HEATERS. ROBERT L. SHRINER, Weehawken, N. J., assignor to Hudson Heating Systems, Inc., New York, N. Y., a Corporation of New York. Original application filed Mar. 6, 1926, Serial No. 92,711. Divided and this application filed Dec. 27, 1926. Serial No. 157,080. 1 Claim. (Cl. 201—63.)



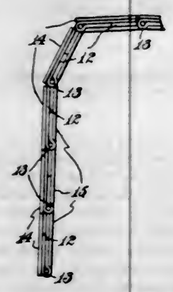
The herein described method of encasing a metallic conductor in a cavity in a refractory envelope which shall permit free expansion and contraction of said conductor, which comprises the following steps; winding said conductor cold around a suitable support of insulating material, embedding said conductor in a coating of plastic refractory material of considerable thickness applied to said support in mass form, heating said conductor by passing the predetermined amount of current through it while said coating material is still soft and free from exterior pressure, and subsequently hardening said coating as by baking; whereby the expanded conductor will push aside the elastic coating to form an expansion chamber for itself thereon.

1,681,957. MOLDING PATTERN. AUGUST J. SMITH, Chicago, Ill. Filed Apr. 30, 1925. Serial No. 27,052. 4 Claims. (Cl. 22—158.)



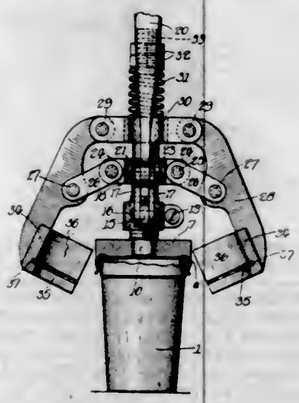
1. A pattern for molding an annular device having spaced depending posts, comprising a member having an interior cavity with inwardly spaced ribs having a thickness substantially equal to one half of the thickness of said posts.

1,681,958. STEEL DOOR. GEORGE E. STEVENSON, Indianapolis, Ind. Filed Dec. 15, 1927. Serial No. 240,103. 1 Claim. (Cl. 189—51.)



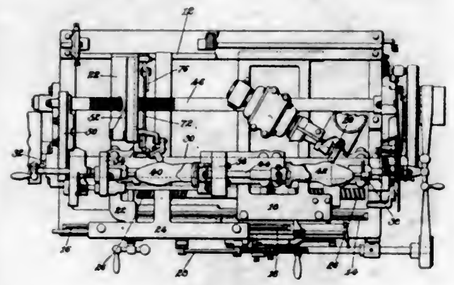
A flexible curtain composed of a plurality of hingedly connected elements each of which comprises a sheet metal core perforated, slotted and its edges overlapped upon its middle to form hinge eyes, and a finish strip secured to the core member and having a width such that the edges thereof will abut edges of similar plates of adjacent core elements when the curtain is flattened.

1,681,959. HAND MACHINE FOR SEALING CAPS TO JARS AND CANS. SWAN NILS TEVANDER, Maywood, Ill., assignor to Swan Metallic Seal & Cap Company, a Corporation of Illinois. Filed Mar. 31, 1923. Serial No. 629,181. 5 Claims. (Cl. 226—86.)



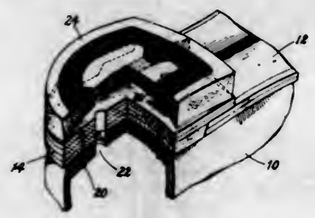
4. In a device of the class described, a head block mounted over the top of a cap for holding the cap on the vessel to be sealed, a support connected with the said head block, two relatively movable sliding members carried by said support, two opposed operating levers hinged to one of the said members, two links connecting said support to said levers, two swinging levers hinged to the other of said sliding members and two gripper jaws carried by said swinging levers adapted to embrace and act upon the flange of the cap held by the holding means.

1,681,960. MACHINE FOR EFFECTING SYSTEMATIC IRREGULARITIES IN THE REPRODUCTION OF OBJECTS. LAURENCE E. TOPHAM, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 29, 1922, Serial No. 571,716. Renewed Dec. 14, 1926. 46 Claims. (Cl. 142—15.)



1. That improvement in the art of pattern reproduction which consists in forming, in effect, a system of differential elements in the model, and reproducing them in the work, the orientation of the elements and their reproductions as regards corresponding axes in the model and work respectively being different.

1,681,961. HEEL. GEORGE E. WARREN, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 20, 1923, Serial No. 658,292. Renewed Mar. 8, 1926. 6 Claims. (Cl. 36—35.)

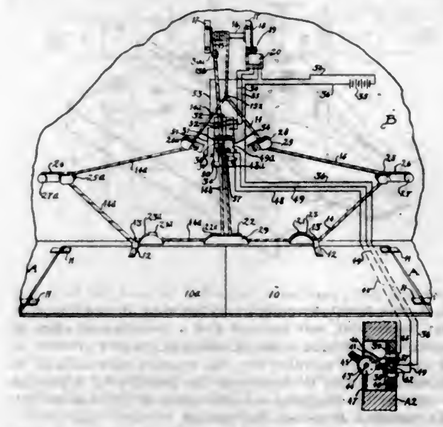


1. A shoe heel comprising a deformable, resilient top section which is normally concavo-convex on every line of cross section, flattened and combined with a comparatively rigid concavo-convex base section, the heel as a whole having a flat tread face and a concave seat face.

1,681,962. DOOR-OPERATING DEVICE. NICKOLAY WESTBY, St. Paul, Minn. Filed Aug. 30, 1926. Serial No. 132,488. 1 Claim. (Cl. 268—63.)

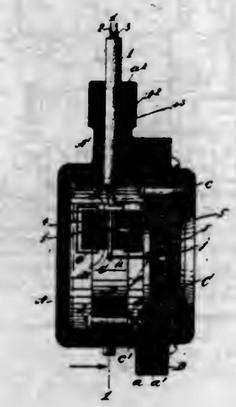
In a structure having a wall with a door opening and two oppositely hinged doors adapted to close the opening when they are swung toward each other, sheaves arranged above the doors, a cable or similar flexible element stretched over the sheaves and attached to the doors to open and close them, a reversible electric motor in an electric circuit, operative connection between the motor

and the cable, a switch starting the motor to open and close the doors, and means operated by the cable for automatically stopping the motor when the doors are either closed or opened, the said automatic stopping means com-



prising a pole changer having a slidable member with a wing having an aperture, a portion of the cable being slidable in the said aperture and having obstructions fixed on it to act on the wing and move the slidable member alternately in opposite directions.

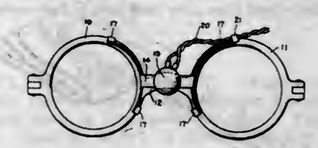
1,681,963. MAGNETOPHONE. ROBERT L. WILLIAMS, Newton, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Jan. 2, 1920. Serial No. 348,935. 4 Claims. (Cl. 177—386.)



1. A hydrophone comprising a casing, a rubber diaphragm mounted in said casing and exposed to receive the approaching sound waves, an armature connected to said diaphragm and operated thereby, and means including said armature and an electrical circuit for inducing a current in said electrical circuit.

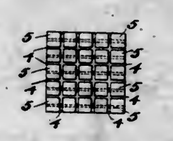
1,681,964. ATTACHMENT FOR SPECTACLES. ROBERT YOUNG, New York, N. Y. Filed Jan. 22, 1927. Serial No. 162,716. 9 Claims. (Cl. 240—52.)

1. As a removable attachment for a spectacle frame, a supporting device for a head lamp or the like, said device comprising a medial body portion adapted to overlie the bridge of the frame and to support said lamp, and two pairs of clamping arms carried by said body portion and extending upwardly and downwardly respectively,



said pairs being arranged and constructed to brace themselves respectively between the upwardly and the downwardly diverging frame portions adjacent to the bridge.

1,681,965. PAD FOR MANGLE ROLLERS, IRONING BOARDS, AND THE LIKE. WILLIAM A. ZEIDLER, New York, N. Y., assignor to Zeidler Economy Spring Pad Co., Inc., New York, N. Y., a Corporation of New York. Filed Oct. 24, 1922. Serial No. 596,669. 5 Claims. (Cl. 68—9.)



1. A base for a pad for ironing machines and the like composed of a sheet of cork with intersecting incisions.

1,681,966. BALANCED-TOGGLE VALVE. WILLIAM A. ZEIDLER, New York, N. Y. Filed Oct. 30, 1925. Serial No. 65,829. 8 Claims. (Cl. 251—125.)

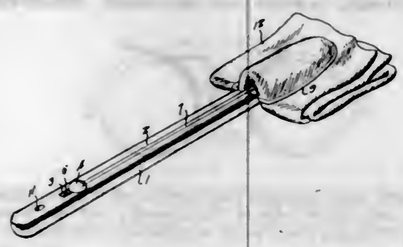


2. In a device of the class described, a casing having an inlet and an outlet opening, spherical seats at the upper and lower parts of said casing, one of the seats constituting a valve seat, toggle members engaging said seats, and connected together, one of said toggle members comprising a valve for cooperating with said valve seat, springs for holding said toggle members in right relation to their seats and each other, said toggle members adapted to be operated to open the valve.

1,681,967. DUSTER AND WASH STICK. JOHN B. ZORN, Kansas City, Mo. Filed Oct. 10, 1927. Serial No. 225,341. 3 Claims. (Cl. 15—150.)

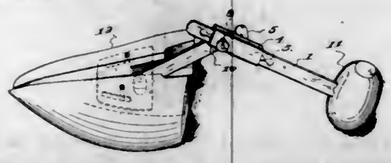
1. In a device of the class described, the combination of a handle having a longitudinal slot therein, a bar pivotally mounted in and extending parallel with the handle, a

fastening device contained within the handle and releasably holding the bar in locked position within the handle,



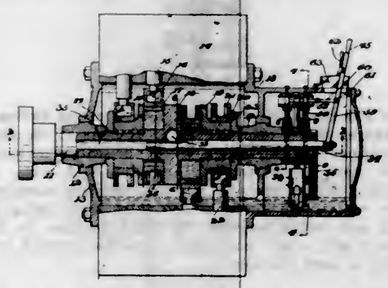
and a metal loop mounted in the end of the handle and extending in spaced relation to and around the free exposed end of the aforesaid bar.

1,681,968. SHOE-TREE. ARTHUR R. ANDERSON, North Arlington, N. J. Filed May 11, 1925. Serial No. 29,593. 3 Claims. (Cl. 12—128.2.)



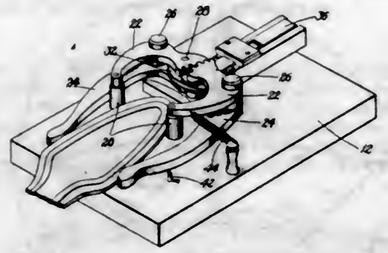
1. A toggle joint for shoe trees comprising an arm provided with a slot having alternate enlarged and reduced portions; a member slidably mounted on said arm; a bearing pin slidably supported in said member with an enlarged section normally seated in one of said enlarged slot portions, and a reduced section adapted to pass through said reduced slot portions; and a second arm pivoted on the enlarged section of said bearing pin and guided for pivotal movement between a side of said first mentioned arm and a side of said member; said bearing pin and said second mentioned arm being slidable along said first mentioned arm only when the reduced section of said bearing pin is shifted into alignment with the reduced portions of said slot.

1,681,969. HYDRAULIC CENTER-SHIFTING MECHANISM. VICTOR ANGERER, Ridley Park, Pa., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed Dec. 15, 1919. Serial No. 344,959. 6 Claims. (Cl. 74—1.)



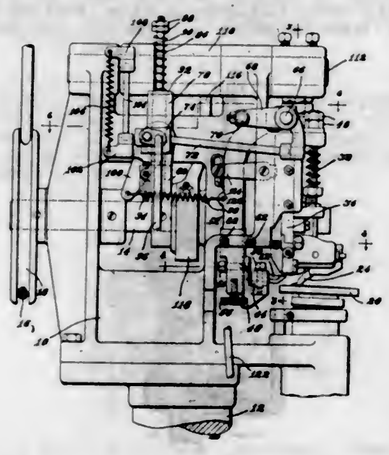
6. A shaft, eccentrics having chambered openings mounted on the shaft to divide such chambers by the shaft, means on the shaft for closing the chambers beyond the shaft, housings on the eccentrics opening toward and adjacent each other, and a spring mounted in the adjacent housings of the respective eccentrics, said spring being tensioned in the opposite movement of the eccentrics.

1,681,970. POSITIONING DEVICE. FREDERIC E. BERTRAND, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 14, 1922. Serial No. 606,879. 10 Claims. (Cl. 12—40.)



1. A sole positioning device comprising, in combination, a flat, horizontal, sole support and a plurality of pairs of connected positioning arms of different lengths pivoted on said support and movable over the support substantially in a horizontal plane to determine the position of a sole on the support by engaging opposite sides of the sole at different distances from one end thereof.

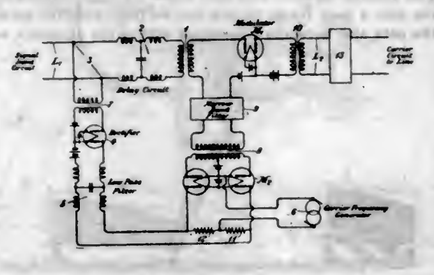
1,681,971. STOCK-FITTING MACHINE. FREDERIC E. BERTRAND, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 15, 1923. Serial No. 612,770. 42 Claims. (Cl. 12—27.)



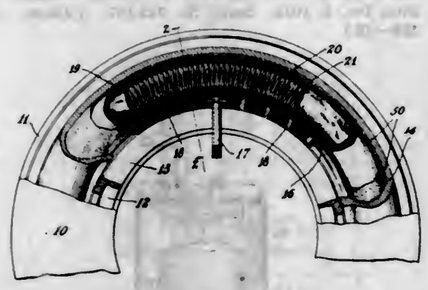
1. A stock-fitting machine comprising, in combination, a support for a sole, mans to form a lip on the sole by cutting inwardly from the edge, and a knife movable toward and across the edge face of the sole to slash the material which is to form the lip.

1,681,972. CARRIER AMPLITUDE-CONTROL SYSTEM. OTTO B. BLACKWELL, Plandome, N. Y., and HERMAN A. AFFEL, Maplewood, N. J., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 25, 1926. Serial No. 90,638. 21 Claims. (Cl. 178—44.)

1. In a carrier or radio signaling system in which a carrier frequency is modulated by a signal frequency, the method which consists in producing a carrier frequency, varying the energy level of the carrier frequency by variations in the level of the signal frequency, and simultaneously modulating by the said signal the carrier frequency as thus varied.

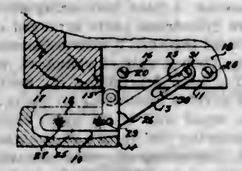


1,681,973. METHOD AND APPARATUS FOR VULCANIZING PNEUMATIC TIRES. JAMES W. BRUNDAGE, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed July 25, 1927. Serial No. 208,147. 7 Claims. (Cl. 18—53.)



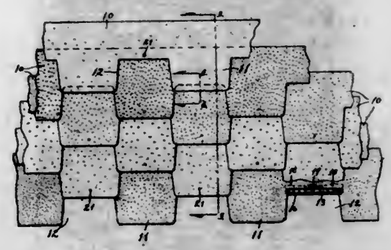
1. The method of vulcanizing a pneumatic tire which comprises distending the tire in a mold by forcing a moist, plastic distending material into the tire, reducing the plasticity of the distending material by removal of moisture therefrom through the space between the beads of the tire, and thereafter maintaining the tire at a vulcanizing temperature.

1,681,974. HINGE. WYCLIFFE L. CLARK, Jamestown, N. Y. Filed Sept. 26, 1927. Serial No. 221,880. 2 Claims. (Cl. 16—138.)



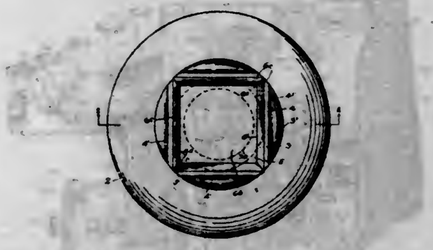
2. A hinge comprising a fixed element, a movable element, means adapted to removably secure one end of said movable element to said fixed element, a connecting stop link, said link being longitudinally slotted through a portion of its length, means pivotally engaging one end of said link with said movable element and means engaging said slotted end of said link with said fixed element.

1,681,975. ROOFING ELEMENT. ISADORE DAVIS, Des Moines, Iowa, assignor to Interlocking Shingle Co., Des Moines, Iowa, a Corporation of Iowa. Filed Nov. 2, 1925. Serial No. 66,217. 4 Claims. (Cl. 108—7.)



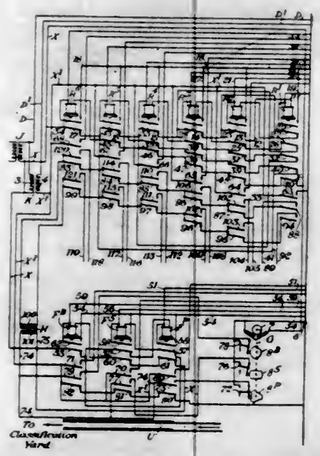
2. A roofing element comprising a body formed on one margin with alternate projections and notches, a clip underlying the end portion of each projection and offset to form hooks, said clip being formed with teeth extending in both directions from its body, the end portion of the projection being folded around the margin of the clip and the teeth of the clip penetrating in both directions the material of the said projection to cause uniform expansion and contraction thereof.

1,681,976. BOTTLE CLOSURE. HARRY DE WALLACE, Syracuse, N. Y. Filed Apr. 22, 1927. Serial No. 185,848. 3 Claims. (Cl. 215—38.)



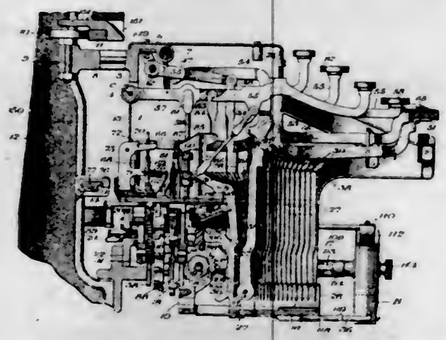
1. A closure for bottles having square recessed and beaded mouths comprising a substantially square body of fibrous material having a substantially square shaped crease spaced from the edges of the body and parallel to said edges, and diagonal creases connecting the corners of the first named creases with the adjacent corners of the body, the portions between the square crease and the edges of the body constituting a four-sided apron which latter extends upwardly and is curved outwardly, said diagonal creases being of V-form and having their apices extending from the corners of the body and flaring toward the corners of the square shaped crease and being adapted to engage in the corners of the angular recess of the bottle mouth.

1,681,977. CAB SIGNALING SYSTEM FOR RAILWAY YARDS. CHARLES W. FAILOR, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Feb. 24, 1927, Serial No. 170,495. Renewed July 9, 1928. 20 Claims. (Cl. 104—26.)



1. A cab signal system for a railway receiving yard, comprising a trackway circuit for each track for inductively transmitting indications to a vehicle on the track, manually controlled means for selecting any one of said circuits for operation, and other manually controlled means for supplying to such selected circuit any desired one of a plurality of distinctive currents.

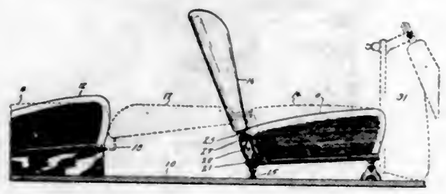
1,681,978. TYPEWRITING MACHINE. HARRY A. FOOTHORAP, Harrisburg, Pa., assignor to Elliott-Fisher Co., New York, N. Y., a Corporation of Delaware. Filed May 14, 1925. Serial No. 30,265. 19 Claims. (Cl. 197—2.)



17. The combination with a movable supporting frame of a carriage having a movable supporting connection exclusively at its rear side, with the frame and down-strike printing mechanism mounted on the carriage in advance of said supporting connection.

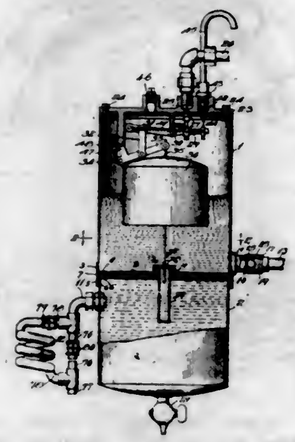
1,681,979. FRONT-SEAT CONSTRUCTION FOR AUTOMOBILES. HERBERT R. GRAHAM, Miller, S. Dak. Filed Aug. 28, 1926. Serial No. 132,302. 3 Claims. (Cl. 155—7.)

1. In a front seat construction for vehicles, a seat frame, brackets secured to said frame and having upwardly and rearwardly inclined channels, each of said channels having side plates the forward extremities of which are connected by a web, said web being cut away to form projecting ears at the upper extremities of the side plates, a stud secured between said ears above the upper extremity of the web, a back frame having end portions received between the ears and normally telescoped within the channels, each



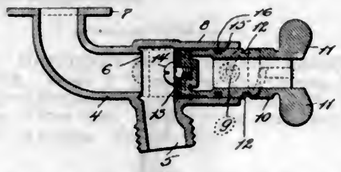
end portion having a longitudinal slot receiving the stud and allowing withdrawal from telescoping relation to a position in which the end portion may hinge in either direction about the stud without contact with the web, the end portion engaging with the web when in telescoped relation, to lock the back frame against rearward movement.

1,681,980. APPARATUS FOR PURIFYING USED LUBRICATING OIL. EDWARD L. GROSS, Chicago, Ill. Filed Dec. 3, 1919. Serial No. 342,197. 1 Claim. (Cl. 196—16.)



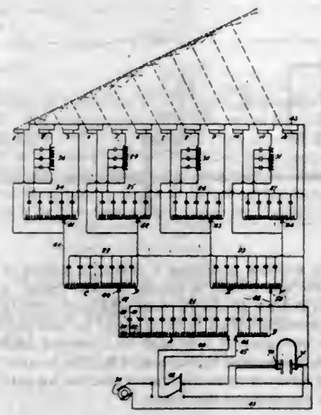
An apparatus for purifying used lubricating oil, having, in combination, a used lubricating oil purifying tank comprising two cylindrical parts arranged end to end and detachably secured together, a filtering member arranged at the juncture to form a pair of chambers, said tank being provided with a used lubricating oil inlet to the lower chamber and a purified lubricating oil outlet and a plurality of ports in the upper wall of the upper chamber, a suction conduit for removing the vapors of contaminating liquids from the used lubricating oil, communicating with one of said last mentioned ports, means in said last mentioned chamber for controlling said ports at predetermined points, whereby a vacuum due to said suction may be periodically formed and broken in said chamber, a check valve controlling said purified oil outlet, and a passage for oil communicating with said used oil inlet.

1,681,981. DRAIN. CHARLES F. GILBERT, St. Louis, Mo. Filed Feb. 9, 1921. Serial No. 443,638. 5 Claims. (Cl. 251—39.)



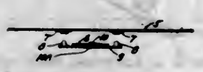
1. In a drain of the class described, a casing having a smooth bore throughout its length, a hollow plug having an imperforate end and a helix and a circumferential groove in its wall, a valve, means for detachably securing the valve to the imperforate end of the hollow plug, and a removable element adapted to project into the bore and engage in said helix in the plug.

1,681,982. DIRECTIVE SOUND TRANSMISSION. HARVEY C. HAYES, Anacostia, D. C., and MAX MASON, Chicago, Ill., assignors to Submarine Signal Company, Portland, Me., a Corporation of Maine. Original application filed June 25, 1919, Serial No. 306,685½. Divided and this application filed Feb. 26, 1926. Serial No. 90,849. 7 Claims. (Cl. 177—386.)



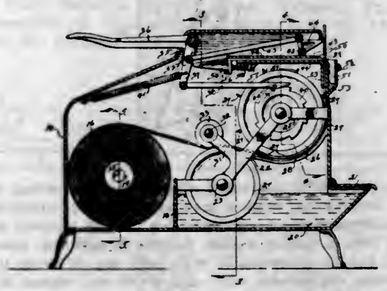
7. The method of producing sound beams in varying directions at the will of the operator from a series of stationary sound producers having their effective portions radiating in the same plane which consists in independently actuating said sound producers from a source of electrical current, introducing in the path of supply from said source to said sound producers varying retardation to vary progressively the phase of the current supplied to successive producers whereby a sound beam may be produced in any direction.

1,681,983. LINGERIE CLASP. LUCIA R. KELLER, St. Paul, Minn. Filed Apr. 16, 1927. Serial No. 184,284. 2 Claims. (Cl. 24—73.)



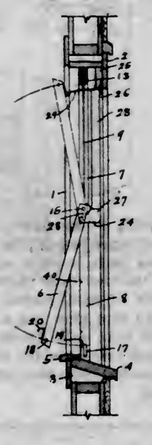
1. In a clasp of the class described for a garment having shoulder straps for supporting the garment, a fastener comprising a bar of stiff material, means for detachably affixing said bar to the upper portion of the garment, said strap for each fastener adapted to be passed transversely under said bar and between it and the garment, and means fixed to said bar at the side of it normally adjacent the garment, for engaging the said strap at any desired place.

1,681,984. STAMP-AFFIXING MACHINE. HERBERT F. LESSMANN, Des Moines, Iowa. Filed Sept. 19, 1927. Serial No. 220,370. 8 Claims. (Cl. 216—27.)



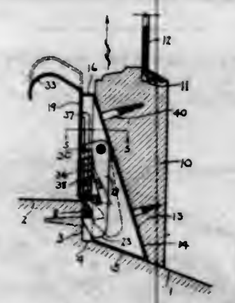
1. In a device of the class described, a housing having a slot opening, a laterally extending platform adjacent said slot opening, a shaft in said housing designed to support a roll of postage stamps, a means for advancing the said roll of postage stamps through said slot opening, one stamp at a time, a blade slidably mounted in said housing capable of cutting off single stamps as they pass through said slot opening, a stamp affixing member above said platform, a means for moistening said stamps, and a lever for actuating said stamp advancing mechanism, said blade and stamp affixing member.

1,681,985. WINDOW. CLAUDE A. LEWIS, Houston, Tex., assignor to American Window Company, a Corporation of Delaware. Filed June 10, 1926. Serial No. 115,141. 19 Claims. (Cl. 20—49.)



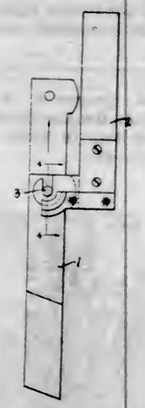
1. The combination with a window casing, of an upper and a lower sash therein, the upper end of the lower sash and the lower end of the upper sash being both pivoted in the casing to revolve about a common transverse axis to permit said sashes to be swung about said axis into reversed position.

1,681,986. WINDOW LATCH. CLAUDE A. LEWIS, Houston, Tex., assignor to American Window Company, a Corporation of Delaware. Filed July 3, 1926. Serial No. 120,269. 9 Claims. (Cl. 292—110.)



1. In combination with a window sash and casing, means for latching the window sash to the casing, comprising a shouldered plate on said casing, a pivoted latching dog on said sash, a handle slidable relative to said dog, means on said handle co-operating with said dog to force it into latching engagement with said plate, and means on said handle to throw said dog out of latching position when said handle is raised to elevate said sash.

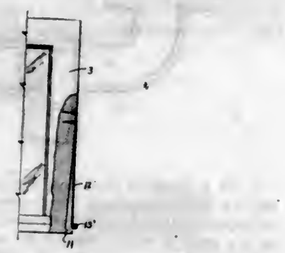
1,681,987. WINDOW-SASH SUPPORT. CLAUDE A. LEWIS, Houston, Tex., assignor to American Window Company, a Corporation of Delaware. Filed Sept. 7, 1926. Serial No. 133,925. 5 Claims. (Cl. 20—49.)



1. A window including a lower sash adapted to slide vertically upward, laterally projecting pins adjacent the upper end thereof, an upper sash, a plate at each side of said upper sash adjacent the lower end thereof, a forwardly extending arm on each of said plates, said arms having slots therein engaging said pins and a stationary bracket below said plate and arm, said bracket having a groove therein to receive said extension the sides of said groove serving to limit the lateral movement of said extension for the purpose described.

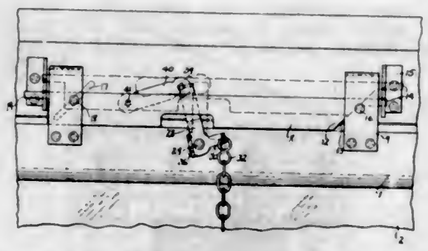
1,681,988. RESILIENTLY-MOUNTED WINDOW SASH. CLAUDE A. LEWIS, Houston, Tex., assignor to American Window Company, Houston, Tex., a Corporation of Delaware. Filed Sept. 21, 1926. Serial No. 136,749. 14 Claims. (Cl. 20—49.)

1. In a window, a casing having opposite channels therein, and forwardly curved grooves communicating therewith adjacent the upper ends thereof, riders slidable in said channels, said riders having upwardly opening grooves at their upper ends and pin-receiving recesses



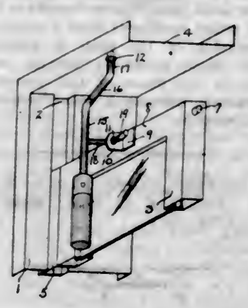
at their lower ends, a sash on said riders, upper and lower pins fitting within said grooves and said recesses respectively, and means to hold said lower pins resiliently within said recesses.

1,681,989. TOP LATCH FOR WINDOWS. CLAUDE ALEXANDER LEWIS, Houston, Tex., assignor to American Window Company, Houston, Tex., a Corporation of Delaware. Filed Apr. 5, 1927. Serial No. 181,019. 11 Claims. (Cl. 292—186.)



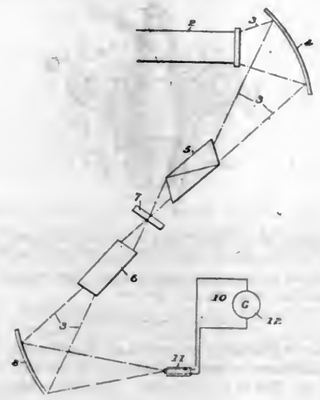
1. In a window including a casing, a frame, a sash pivoted at its lower end to swing in said frame, a latch on said sash, flexible means to raise said latch, retaining plates on said casing adapted to be engaged by said latch bar and limit the swinging of said sash to a vented position when said latch is operated through said flexible means, said latch bar being released from its vented position on said retaining means in the manner described.

1,681,990. WINDOW POLE. CLAUDE A. LEWIS, Houston, Tex. Filed May 16, 1927. Serial No. 191,780. 3 Claims. (Cl. 268—134.)



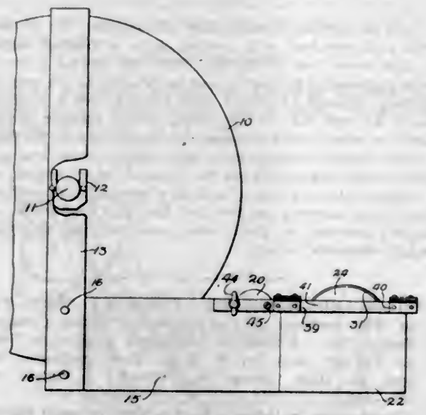
1. A window pole for the purpose set forth comprising a handle, a rod axially of said handle at the forward end thereof, said rod being bent laterally and then forwardly to provide a fulcrum finger to engage a support, a lateral arm on said rod, a finger on said arm aligned approximately with said fulcrum finger and adapted to engage a window sash for the purpose stated.

1,681,991. METHOD OF DETECTING AND MEASURING STRAINS. JESSE T. LITTLETON, Jr., Corning N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Nov. 20, 1926. Serial No. 149,747. 4 Claims. (Cl. 73—51.)



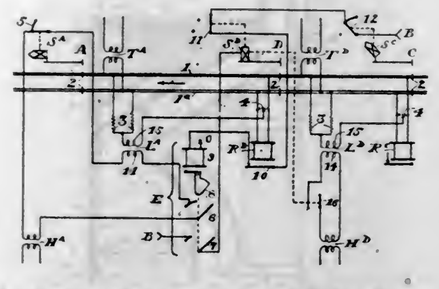
1. A method of detecting strain in a medium transmissive of heat-rays, which comprises the steps of polarizing heat-rays, passing said polarized heat-rays through a transmissive specimen, absorbing the polarized rays transmitted by said specimen, and noting the presence or absence of strain in said specimen in terms of the effect produced upon a heat detector by the depolarized rays transmitted by said specimen.

1,681,992. MACHINE FOR APPLYING PASTE TO PAPER SHEETS. SAMUEL LOVENWIRTH, Philadelphia, Pa. Filed June 4, 1926. Serial No. 113,740. 1 Claim. (Cl. 91—51.)



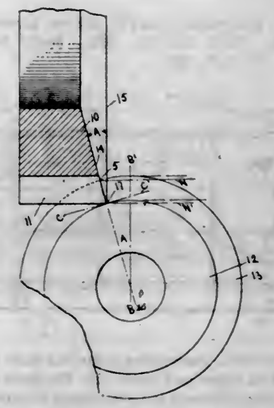
In a device of the class described, a structure for supporting a roll of paper, sheet guiding means mounted in said structure, a receptacle detachably connected with said structure, the receptacle including a paste compartment, and an independent compartment, rollers mounted for rotation and for vertical movement in these compartments, means for connecting the aforesaid structure and detachable receptacle, and paper guiding devices each comprising upper and lower plates arranged in pairs, the plates of one pair extending across the adjacent edges of the structure supporting the paper roll and the detachable receptacle, and being secured to the connecting means for these elements.

1,681,993. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. RONALD A. MCCANN, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed July 29, 1926. Serial No. 125,763. 12 Claims. (Cl. 246—23.)



3. In combination, a section of railway track, an interlocking signal located at the entrance end of said section and controlled at least in part by manual means having normal and reverse positions wherein said signal indicates stop and proceed respectively, means for causing a non-restrictive indication to be given on a train occupying said section when said manual means is in reverse position and traffic conditions in advance of said section are safe, and means for preventing said manual means from being restored to its full normal position while a train is in said section.

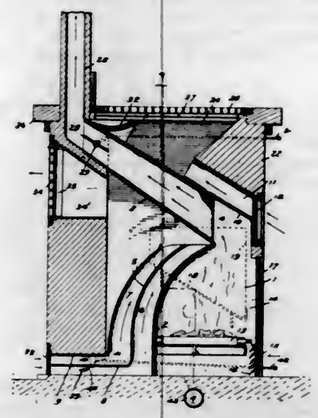
1,681,994. METHOD OF GENERATING TOOTH FORMS. EDWARD W. MILLER, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a Corporation of Vermont. Filed Apr. 15, 1924. Serial No. 706,661. 5 Claims. (Cl. 90—4.)



1. The method of generating tooth forms which consists in providing a cutter having the form of a helical gear of uniform diameter and uniform width of tooth from end to end, such cutter having a conically recessed end face and cutting edges at the ends of its teeth, applying such cutter

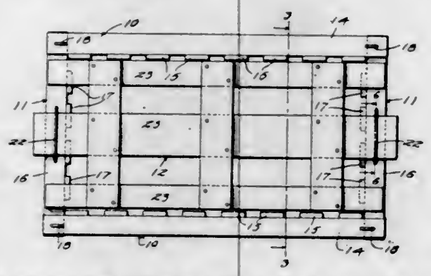
to the work with its axis making an acute angle with the momentary direction of relative cutting travel, rotating the work so as to approach the end of the cutter at the cutting edges thereof, and effecting a relative motion of rolling traverse between the cutter and work lengthwise of the latter.

1,681,995. HEATER. EUGENE P. MILES, Hobart, Okla. Filed Dec. 10, 1927. Serial No. 239,229. 6 Claims. (Cl. 126—121.)



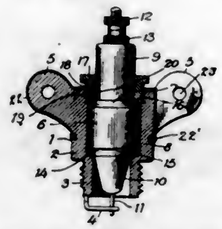
1. The combination with a mantel formed of masonry, of heating apparatus therein including side plates spaced from the side walls of the mantel to provide fresh air chambers, a back plate connecting the side plates and cooperating therewith to provide a combustion chamber between the plates, upwardly and backwardly inclined flues for receiving products of combustion from between the plates, a fresh air flue above the combustion chamber having a fresh air inlet opening through one wall of the mantel, there being an air inlet in the bottom portion of the mantel opening between the plates adjacent the lower ends thereof, there being a fresh air space between the flues of the combustion chamber and above and below said flues, and a grating in the top of the mantel communicating with said space.

1,681,996. FOLDING CRATE. FRANK MORROGH, Arnaudville, La. Filed Jan. 27, 1926. Serial No. 84,219. 1 Claim. (Cl. 217—48.)



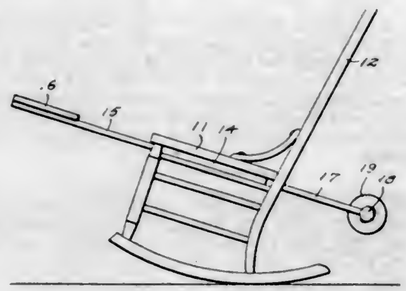
A foldable crate comprising sides and ends, each of which consists of an upper and lower rail, the ends of the rails of the sides being disposed in overlapping relation to the outer face of the rails of the ends and pivotally connected together, vertical slats secured to the inner face of the rails of each side and end, sills extending parallel to the lower rails of the sides across the slats and secured thereto, a bottom adapted to be supported by said sills, U-shaped members having their legs slidably mounted through the top of the upper rails of each end, and a cover composed of longitudinal spaced slats connected together at a point remote from their ends, slidably disposed between the upper rails of the sides, the ends of the central slat of the cover being adapted to enter the U-shaped members, through longitudinal movement of the cover.

1,681,997. SPARK PLUG. HARRY MUNROE, New York, N. Y. Filed Sept. 4, 1926. Serial No. 133,616. 5 Claims. (Cl. 123—169.)



1. A spark plug comprising a screw threaded carrier, a fire-proof fibrous layer arranged about said carrier, an insulating body arranged in said carrier, and means to retain said insulating body in the carrier.

1,681,998. SEESAW. CURTIS A. PENDLETON, Port Alberni, British Columbia, Canada. Filed Nov. 23, 1927. Serial No. 235,371. 1 Claim. (Cl. 272—56.)

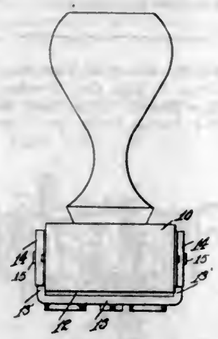


In a convertible rocking-chair and see-saw, the combination with the seat of a rocking chair, a member secured by the lower face of the said seat and having a central socket extending forwardly and rearwardly of the seat and opening through the front edge thereof, and a narrower socket at each side of the central socket opening through the rear edge of said member, an extensible seat including a stem slidably adjustable in said centrol socket and movable toward and away from the front of the chair seat, and a counterbalance element including arms slidably adjustable in said narrower sockets and having a transverse connecting member on their outer ends adapted to receive weight elements thereon.

1,681,999. RUBBER STAMP. CLARENCE L. SMITH, Tampa, Fla., assignor to The Franklin Printing Company, Tampa, Fla. Refiled for abandoned application Serial No. 742,612, filed Oct. 9, 1924. This application filed Sept. 25, 1926. Serial No. 137,809. 1 Claim. (Cl. 101—405.)

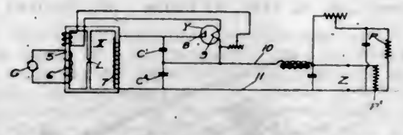
A hand stamp including a block, a strip of metal disposed transversely of each end of the block and having the major portion intermediate the ends offset away from the block ends and having its ends secured to said block ends, a printing strip including a central body portion having a printing face and terminal tabs, said tabs being arranged

to be inserted between the offset portions of the metal strips and the block ends, and fastening means disposed through said intermediate portions of the metal strips,



the tab ends of the printing strip, and the block ends, whereby said printing strip is securely fastened to the block, while at the same time being readily removable.

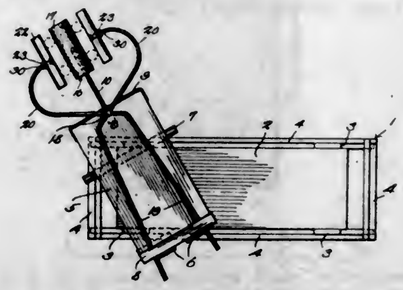
1,682,000. RECTIFICATION OF ALTERNATING CURRENTS. THEODORE A. WILLARD, Cleveland, Ohio, and FREDERICK S. MCCULLOUGH, Wilkinsburg, Pa. Filed Nov. 13, 1924. Serial No. 749,661. 6 Claims. (Cl. 175—363.)



1. Means for effecting the rectification of alternating currents including a resonant circuit in which there is a rectifier, a capacity in parallel with the rectifier, and a capacity in series with the rectifier and said first mentioned capacity.

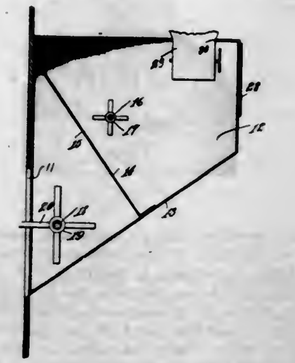
4. The method of rectifying alternating currents with a one-way rectifier consisting in increasing the rectifying period for the rectifier beyond one half cycle phase period of the supply current and decreasing the non-rectifying period of the rectifier below the other half cycle phase period of the supply current.

1,682,001. MILKING MACHINE. FRANK M. WRABEK, Le Sueur Center, Minn. Filed Apr. 9, 1927. Serial No. 182,368. 3 Claims. (Cl. 31—79.)



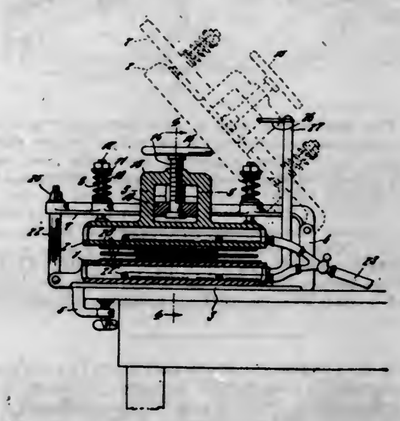
1. In a device of the class described, an operator's bench, a support hinged to the bench for vertical swinging adjustment, means for holding the support in adjusted vertical positions, an abutment mounted on the support, jaws located on opposite sides of the abutment, and means mounted on the support for moving the jaws toward and away from each other.

1,682,002. AUTOMATIC STOKER. WILLIAM A. YARWOOD, Buffalo, N. Y. Filed June 15, 1925, Serial No. 37,255. Renewed May 10, 1928. 1 Claim. (Cl. 110—115.)



A stoking device comprising a casing having an inclined bottom wall, and a furnace contacting wall provided with a discharge opening adjacent its lower end, an inclined partition in the casing extending from the bottom wall to the furnace contacting wall above said opening, said partition having an opening above the level of the first opening, a rotary element on the upper side of said partition and in position to agitate the fuel adjacent said partition opening, and a projector inwardly of the discharge opening directly beneath the partition opening in position to receive the fuel thereon which falls vertically from said partition opening.

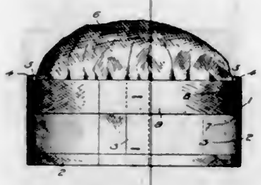
1,682,003. CLOTHES-PRESSING MACHINE. ROBERT COMADORE BURNLEY, Louisville, Ky. Filed Jan. 29, 1927. Serial No. 164,591. 2 Claims. (Cl. 100—57.)



1. A press of the class described comprising a base, a stationary member supported thereby, uprights at the rear of the base, bars pivotally connected with the uprights, latch means for connecting the front ends of the bars with the base, a movable member, spring means for supporting the movable member from the bars, a guide on the movable

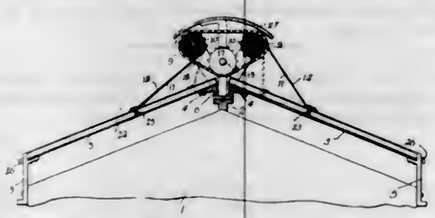
member, a screw shaft carried thereby, a handle on the shaft, a cross head arranged to move in the guide and movable by the turning of the shaft, beams connected with the cross head and bearing against parts of the movable member and means for pivotally connecting the beams with the bars.

1,682,004. CAP. DANIEL J. CREMEN, Blackwood, N. J. Filed Feb. 9, 1927. Serial No. 166,884. 4 Claims. (Cl. 2—200.)



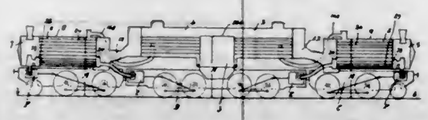
1. A cap provided with an upstanding continuously extending substantially circular brim comprising a relatively flexible fabric facing and a relatively stiff fibrous lining intimately united by an adhesive, and a ventilating crown of loosely woven material, one of the peripheral ends of said lining terminating short of the adjacent peripheral end of the flexible fabric, the unlined portion of the said flexible material being loosely disposed within the brim and constituting the sole means to which the crown is secured for connecting the latter to the brim.

1,682,005. GREENHOUSE PROTECTOR. ROBERT E. DE ZONIA, Denver, Colo., assignor of one-fourth to Jasper N. Ripley, Denver, Colo. Filed Jan. 27, 1928. Serial No. 250,010. 8 Claims. (Cl. 108—2.)



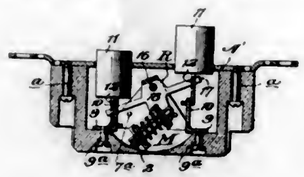
1. The combination with a green-house having track ways supported transversely of its roof, of screen sheets windable upon rollers supported above the roof, said sheets having carriages attached thereto for movement upon the track ways.

1,682,006. STEAM LOCOMOTIVE. ATTILIO FRANCO, Milan, Italy. Filed Feb. 25, 1925, Serial No. 11,585, and in Italy Feb. 25, 1924. 5 Claims. (Cl. 105—37.)



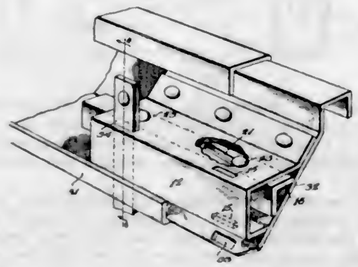
1. In a locomotive, interconnected end and center driving units, a main boiler carried by the center unit, an auxiliary boiler carried by each end unit for heating the feed water for the main boiler up to the vaporation temperature existing in the main boiler whereby the entire heating surface of the main boiler is utilized solely for converting the water heated to evaporation temperature in the auxiliary boilers into steam.

1,682,007. SWITCH. EDGAR H. FREEMAN, Trenton, N. J., assignor to Circle F Mfg. Co., Trenton, N. J., a Corporation of New Jersey. Filed July 10, 1926. Serial No. 121,670. 4 Claims. (Cl. 200—72.)



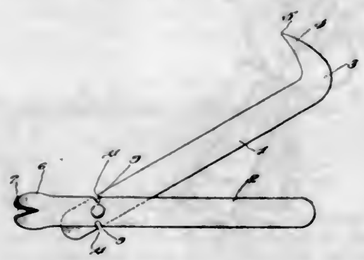
1. A switch of the class described including in combination with a yoke and an actuator, a plunger device arranged between the actuator and the yoke and including a core member doubled upon itself to provide spaced spring arms at its lower end adapted to engage over and straddle a portion of the yoke, and a spring carried by the core and adapted to be compressed by the actuator.

1,682,008. CONCRETE FORM. JOHN N. HELTZEL, Warren, Ohio. Filed Dec. 8, 1925, Serial No. 74,106. Renewed July 13, 1928. 13 Claims. (Cl. 25—118.)



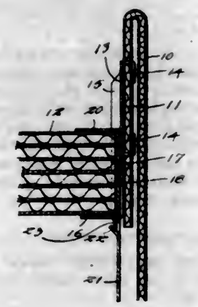
1. A concrete form having means for receiving two stakes, and a single element arranged to simultaneously clamp both stakes.

1,682,009. COMBINATION TOOL. CLAUDE A. KINNEY, Hannibal, Mo. Filed Nov. 14, 1923. Serial No. 674,734. 1 Claim. (Cl. 140—123.6.)



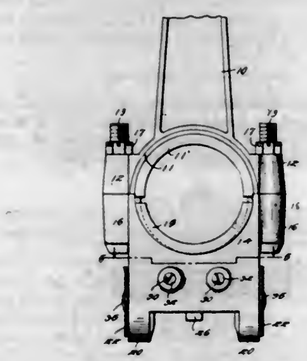
In a tool of the class described, two relatively narrow members, means for pivotally connecting said members together whereby one of said members will extend but a relatively short distance beyond said pivoting point, and such that the other member will extend beyond said pivoting point a distance relatively short compared to the other length thereof but of greater extent than said first-named member, said members having slots formed therein adjacent said pivoting point, said slots being adapted to be disposed in alinement when said members are moved from parallel relation with respect to each other.

1,682,010. BOX-COVER FASTENER. EDWARD B. KOPLITZ, Hoboken, N. J. Filed May 11, 1927. Serial No. 190,565. 4 Claims. (Cl. 229—5.7.)



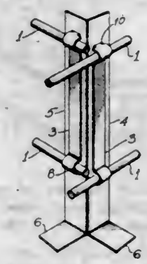
1. The combination with a receptacle and the end closure thereof, of a bracket secured within the receptacle for supporting the closure within the receptacle, and a locking member arranged to be inserted between the bracket and the closure and having means engaging with the closure for holding the same on said bracket.

1,682,011. AUTOMATIC TAKE-UP FOR CONNECTING RODS. JOSEPH KRIZ, Jr., St. Paul, Minn. Filed Dec. 8, 1926. Serial No. 153,437. 4 Claims. (Cl. 308—67.)



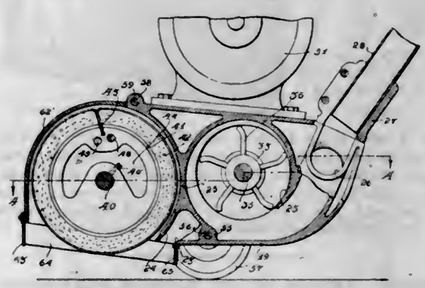
1. In an automatic adjusting means for bearings, an upper bearing part, and a lower bearing part, a bearing element supported in the lower part, worm shafts supported in the lower part, screw shafts engaged therewith, cams on the screw shafts engaged with the bearing element, and spring means for urging the worm shafts rotatably.

1,682,012. BAR SUPPORT. HENRY H. LAMPERT, Chicago, Ill. Filed Apr. 18, 1927. Serial No. 184,759. 5 Claims. (Cl. 94—8.)



1. A device of the class described comprising a support, a clip having a pair of seat portions spaced apart and adapted to support bars in substantially the same plane, the portion of said clip between said seat portions being arranged to abut against one face of said support, and interlocking means on said support and clip.

1,682,013. SANDING MACHINE. JOHN B. LEONARD, Detroit, Mich. Filed May 17, 1926. Serial No. 109,476. 4 Claims. (Cl. 51—176.)

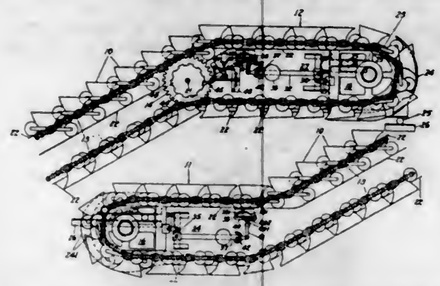


1. A sanding machine of the class described, comprising: a housing formed from a pair of similar sections placed side to side, each of said sections having a chamber formed therein and communicating with an inlet passage formed partly in each of said sections at the engaging faces, and communicating with an outlet passage formed partly by each of said sections at the communicating faces; and a fan mounted in each of said chambers.

1,682,014. SAFETY DEVICE FOR CONVEYERS. SAMUEL G. MARGLES, Brooklyn, and ARTHUR E. HANDY, Lynbrook, N. Y., assignors to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 17, 1924. Serial No. 707,167. 7 Claims. (Cl. 198—232.)

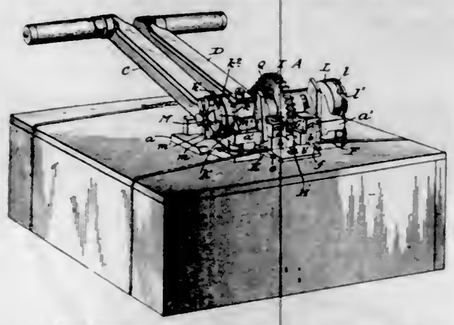
1. An electrically operated conveyer comprising a belt with an electrically operated driving means for imparting motion to the belt and having positive driving connections

with two points of the belt so that portions of the belt extend from the driving means in both directions to the ends of the conveyer, and means in conjunction with each



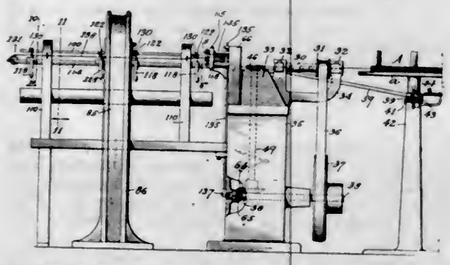
of said extending portions adapted to open the electric circuit of the electric driving means when a break occurs in either of said portions.

1,682,015. WIRE-TYING MACHINE. JOHN SHERMAN MCCHESNEY, Chicago, Ill., assignor, by mesne assignments, to The Gerrard Company, Inc., San Francisco, Calif., a Corporation of Delaware. Filed Oct. 28, 1924. Serial No. 746,280. 12 Claims. (Cl. 140—93.)



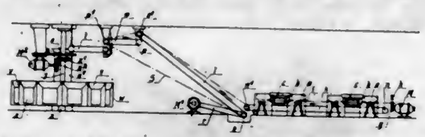
1. A wire tying machine embodying a shaft, a plurality of tension heads rotatable therewith, a tension lever, means operated by the lever for imparting a rotative motion to the shaft and the heads, and splice forming means for joining a looped band while said band is under tension by the action of said heads.

1,682,016. METHOD OF AND MACHINE FOR PRODUCING DEFORMED WIRE TIES. JOHN SHERMAN MCCHESNEY, Chicago, Ill., assignor, by mesne assignments, to The Gerrard Company, Inc., San Francisco, Calif., a Corporation of Delaware. Filed Oct. 28, 1924. Serial No. 746,283. 35 Claims. (Cl. 140—78.)



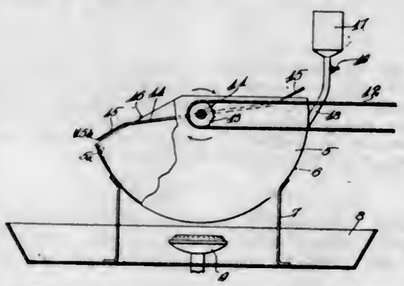
1. In the art of making wire ties, the process which consists in straightening wire and feeding it in a prescribed path, cutting said wire to produce a piece the length of which is a multiple of a plurality of individual ties, shifting the multi-length piece out of the path of feed of the wire, and severing the shifted multi-length piece to produce a plurality of individual ties.

1,682,017. MACHINE FOR MECHANICALLY MIXING TOBACCO LEAVES. HEINRICH MÜLLER, Gross Flottbeck, near Hamburg, Germany, assignor to the Firm Johann Carl Müller, Dresden-A., Germany. Filed Dec. 24, 1926, Serial No. 156,851, and in Germany Nov. 7, 1925. 4 Claims. (Cl. 226—19.)



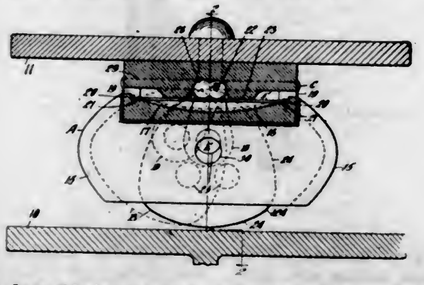
1. In a machine for automatically mixing tobacco leaves, a plurality of individual conveyors each adapted to carry a different brand of leaves, a common conveyor onto which the different brands of leaves are deposited from said individual conveyors, a stationary funnel shaped chute at one end of said common conveyor to receive the mixture of different leaves from the latter and a series of individual receptacles moving past said stationary receptacle so that the leaves are distributed therein from the latter in uniform successive layers.

1,682,018. POP-CORN MACHINE. SWAN NELSON, Chicago, Ill. Filed Oct. 14, 1927. Serial No. 226,179. 9 Claims. (Cl. 53—4.)



1. A corn popper comprising a trough, and a sweep arm movable along and in substantial contact with the floor of the trough throughout the major portion of its travel therealong, the floor of the trough diverging tangentially from the path of travel of the paddle toward the end of the path of travel.

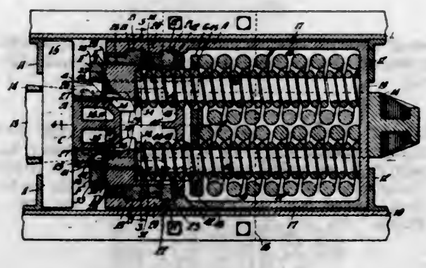
1,682,019. SIDE BEARING. JOHN F. O'CONNOR, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed July 16, 1928. Serial No. 651,739. 5 Claims. (Cl. 308—226.)



2. In a side bearing adapted to be attached to a body bolster, the combination with a retaining member having an upper bearing surface; of an anti-friction element

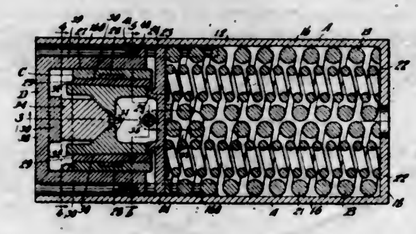
adapted to roll during operation thereof; pendulum means yieldingly sustained by said retaining member; and means pivotally supporting said element from said pendulum means.

1,682,020. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Mar. 12, 1927. Serial No. 174,730. 5 Claims. (Cl. 213—32.)



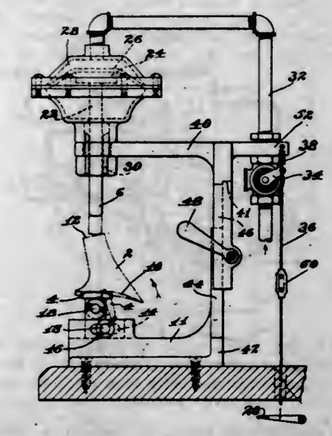
1. In a friction shock absorbing mechanism, the combination with a friction shell; of shoes co-operating with the shell; a wedge anchored to the shell, the wedge being limited against outward movement by said anchoring means, said wedge block and shoes being cut away to permit insertion of the shoes within the shell after the wedge has been anchored to the shell; spring resistance means within the shell yieldingly opposing movement of said shoes inwardly of the shell; and detachable face plates mounted on the shoes, said face plates being interposed between the wedge and shoes and engaging the wedge to limit movement of the shoes outwardly of the shell.

1,682,021. BUFFING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Mar. 31, 1927. Serial No. 179,863. 5 Claims. (Cl. 213—222.)



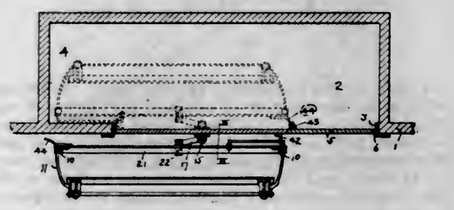
1. In a buffing mechanism of the character described, the combination with a housing; of yieldable means within said housing and bearing thereagainst; a friction system mounted in said housing, including friction elements and a wedge constructed to move in unison under relatively light shocks transmitted to said wedge and to move relatively with respect to each other to develop friction under the influence of relatively heavier shocks transmitted to said wedge; means for transmitting movement of said friction system to said yieldable means both under light and relatively heavier shocks; and a buffer head disposed within said housing and about said friction system and operating to transmit shocks to said wedge, said buffer head being guided in its movements by said housing.

1,682,022. WOOD-HEEL-BLOCK CLAMP. WESLEY JOHN SHAW, Haverhill, Mass., assignor to New England Wood Heel Co., Haverhill, Mass., a Corporation of Massachusetts. Filed Oct. 14, 1926. Serial No. 141,480. 14 Claims. (Cl. 12—123.)



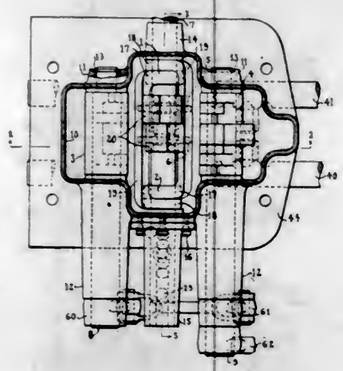
1. A heel-block clamp for use in covering concaved wood-heel blocks having, in combination, a convex jaw adapted to engage the concave face of the block, a cooperating jaw adapted to engage the tread of the block, and foot-controlled, fluid-pressure means for actuating the cooperating jaw towards the convex jaw.

1,682,023. FOLDING BED. NEIL SINCLAIR, Oakland, Calif., assignor to Rip Van Winkle Wall Bed Company, Inc., Oakland, Calif., a Corporation of California. Filed Nov. 22, 1921. Serial No. 516,939. 12 Claims. (Cl. 5—170.)



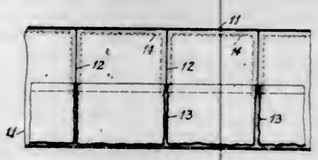
1. A bed mounted on a relatively narrower panel, said panel rotatable about a vertical axis, a hinged door adjacent the panel and adapted when opened to allow the bed to pass through the opening so formed, means supporting the bed in combination with the said panel and admitting of a lateral displacement of the bed with respect to the face of the panel, and means forcing said lateral displacement as said panel is rotated whereby the bed both before and after rotation of the panel is forced to extend substantially beyond that edge of the panel then remote from said door and leave unobstructed the passageway closed by said door.

1,682,024. GEAR-SHIFTING MECHANISM. WILLIAM C. STEVENS and HERMAN J. TAYLOR, Milwaukee, Wis., assignors, by mesne assignments, to Vulcan Motor Devices Company, a Corporation of Pennsylvania. Continuation of application Serial No. 522,997, filed Dec. 17, 1921. This application filed Sept. 22, 1922. Serial No. 589,886. 30 Claims. (Cl. 74—58.)



1. In a gear shifting device, in combination, spaced elements, each of varying contour and a part located between said elements and cooperable with surfaces of said elements selectively to effect gear changes for different speed settings.

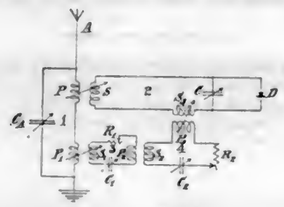
1,682,025. AIRSHIP. HANS STROBL, Berlin-Tempelhof, Germany, assignor, by mesne assignments, to Luftschiffbau Zeppelin G. m. b. H., Friedrichshafen, Bodensee, Germany. Filed Feb. 18, 1927, Serial No. 169,176, and in Germany Mar. 2, 1926. 1 Claim. (Cl. 244—3.)



A rigid airship comprising an outer shell; transverse walls in the upper portion of said shell subdividing it into compartments; the walls of two adjacent ones of said compartments being gas-tight; two gas-tight bags, each of said bags being widely open at its top; the rim of the upper opening of one of said bags fitting and being fastened to the lower end of one of said gas-tight upper compartments; the rim of the upper opening of said second bag fitting and being fastened to the lower end of said second gas-tight upper compartment; every one of said two bags together with the space of its corresponding upper compartment forming a gas cell; the walls of said bags in size and shape being adapted to fit also closely to the inside of the corresponding compartments, respectively.

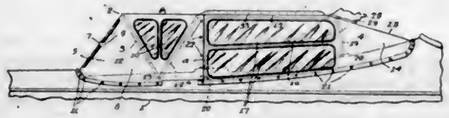
1,682,026. PREVENTION OF INTERFERENCE IN RADIORECEPTION. FREDERICK K. VREELAND, Montclair, N. J. Filed July 12, 1921. Serial No. 484,059. 19 Claims. (Cl. 250—20.)

1. The method of receiving radio signal impulses and simultaneously eliminating sustained radio signal interference which consists in neutralizing the effect of interfering signal currents by an equal and opposite effect selectively



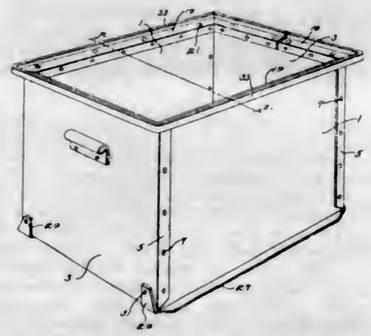
derived from the same radio signal current that produces the interfering effect, and observing the unbalanced signal effect.

1,682,027. FOLDING TOP FOR FLYING BOATS. PAUL G. ZIMMERMANN and BORIS V. KORVIN-KROUKOVSKY, Keyport, N. J., assignors, by mesne assignments, to Healey-Aeromarine Bus Company, Inc., a Corporation of New York. Filed Nov. 17, 1922. Serial No. 601,466. 5 Claims. (Cl. 135—6.)



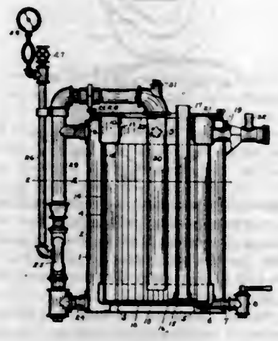
4. A folding top for flying-boats, comprising foldable front and rear sections parting transversely, the front section comprising a flexible cover and transverse pivoted bows adapted to fold forward and downward, the rear section comprising two halves parting longitudinally, said halves comprising flexible covers and longitudinal pivoted bows adapted to fold oppositely outward and downward, a strip on the edge of one of the rear cover halves, said strip in the erected condition being supported at its front end on a bow of the front section, and rows of fastenings for connecting the sections at the partings, a longitudinal row of the fastening elements for connecting the two rear cover halves being carried by said strip.

1,682,028. RECEPTACLE. CLARENCE H. YOUNG, Boston, Mass. Filed Sept. 30, 1926. Serial No. 138,665. 2 Claims. (Cl. 220—97.)



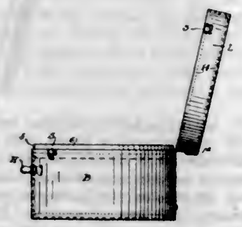
1. A metal receptacle having a flat base and vertical sides, said receptacle at opposite bottom edges thereof having runners each formed of a flat bar extending along and beneath the bottom of the receptacle with portions projecting laterally beyond said edges, said receptacle at the edges thereof above said bars having a reinforcing rim comprising a Z-bar, the web of which Z-bar is placed horizontally and projects laterally beyond the side walls of said receptacle over the laterally projecting portions of said runners, one flange of said Z-bar extending upwardly to form a marginal wall about the outer edge of said web beyond vertical planes including the outer edges of said runners, the other flange of said Z-bar extending downwardly in overlapping relation to the vertical walls of said receptacle, to which flange said walls are secured.

1,682,029. LIQUID HEATER. WALTER A. BARRETT, Fort Wayne, Ind. Filed Aug. 31, 1925. Serial No. 53,496. 2 Claims. (Cl. 257—209.)



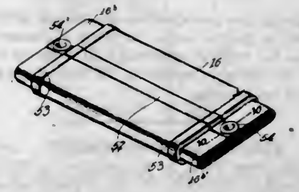
1. A heater comprising three receptacles one within the other, the intermediate receptacle being spaced from each of the others, the side walls of the intermediate and innermost receptacles being vertically corrugated and fit one within the other in spaced relation to form a transversely narrow passageway between said walls, a chamber communicating with the upper end of the passageway, means to conduct the liquid to be heated to the lower end of the passageway to cause the liquid to rise in a film in said passageway and discharge into the chamber, a heating medium in the outer and innermost receptacles and contacting with the said corrugated walls and means to withdraw the said medium from the outer receptacle and deliver it to the innermost receptacle from which latter receptacle the said medium overflows back into the outer receptacle for uniformly heating the said corrugated walls.

1,682,030. CONTAINER AND METHOD OF MANUFACTURE. JOSEPH BERG, Long Island City, N. Y. Filed May 22, 1925. Serial No. 32,062. 10 Claims. (Cl. 206—8.)



5. In a container, in combination, a container body having a wall portion provided with a straight end edge, and a lid for said body having a wall portion provided with a straight end edge, the straight end edge of the wall portion of the lid bearing on and pivotally contacting with the straight end edge of the wall portion of said body for unattached tilting movement of the lid.

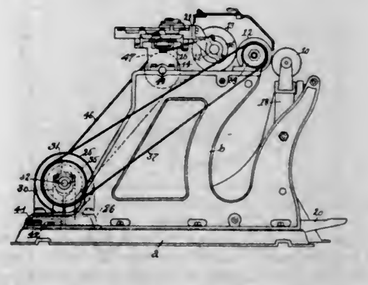
1,682,031. ELECTRIC CONDENSER AND PROCESS OF MANUFACTURE. GEORGE EPAM BLIZIOTIS, Newark, N. J., assignor to Consolidated Research Laboratories, Inc., Newark, N. J., a Corporation of New Jersey. Filed Mar. 21, 1927. Serial No. 176,896. 8 Claims. (Cl. 175—41.)



1. An electric condenser comprising a pair of insulated foil strips of equal width, said strips being disposed in staggered relation to each other and formed into a flattened coil having its central portion compressed to form bands near the ends of the coil.

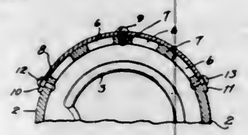
4. An electric condenser comprising a layered coil composed of a strip formed from two plies of metallic foil uniform in width and arranged in staggered relation, an insulative coating on each ply and over the coalesced strip, both ends of said strip having its plies separated and folded back upon themselves to prevent current leakage.

1,682,032. MACHINE FOR TREATING HIDES, SKINS, AND LEATHER. JOHN J. BROPHY, Salem, and WINN E. BROUGHTON, Peabody, Mass., assignors to The Turner Tanning Machinery Company, Peabody, Mass., a Corporation of Maine. Filed May 25, 1922. Serial No. 563,616. 3 Claims. (Cl. 149—16.)



1. In a machine of the character described, in combination, a framework comprising a base and upright side frames, a bladed cylinder, a grinding wheel and a driving drum for said grinding wheel supported by said side frames, a belt connecting said grinding wheel with said drum, a motor support mounted on said base between said side frames and adjustable thereon toward and from said bladed cylinder, side arms extended from said support and provided with bearing boxes extended beyond said side frames, an electric motor mounted on said adjustable support and having its rotor provided with a shaft supported by said bearing boxes, belts connecting the rotor shaft with the bladed cylinder, and a belt connecting the rotor shaft with said driving drum.

1,682,033. HIGH-PRESSURE GAUGE CASING HAVING AN EXPLOSION VENT. RUDOLPH E. BRUCKNER, Bayside, N. Y., assignor to National Gauge and Equipment Company, La Crosse, Wis., a Corporation of Delaware. Filed Sept. 15, 1927. Serial No. 219,586. 6 Claims. (Cl. 73—109.)



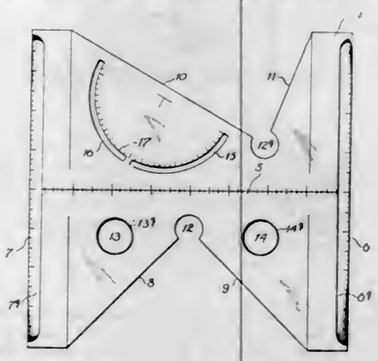
1. In a gauge, the combination of a casing provided with safety vents, a flexible cover forming a closure for said vents, means for rigidly attaching said cover to the casing, and means for slidably retaining an end of said cover in contact with said casing.

1,682,034. SURVEYING INSTRUMENT. DONALD M. BURMISTER, New York, N. Y., assignor to The Keuffel & Esser Company, Hoboken, N. J., a Corporation of New Jersey. Filed Apr. 16, 1927. Serial No. 184,213. 8 Claims. (Cl. 88—2 3.)



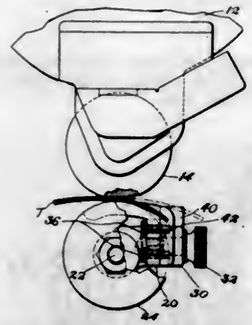
1. A device of the character described comprising a casing having an eyepiece at one end, a sight strip at the other end, an angle mirror intermediate the ends of the casing and having an edge which is perpendicular to said sight strip when viewed through said eyepiece, a pair of angularly-related apertures in said casing, and means for supporting said mirror and sight strip within said casing to present said mirror in alignment with either of said apertures.

1,682,035. PLOTTING INSTRUMENT. ALBERT LORING CLARK, Jr., Ann Arbor, Mich. Filed June 13, 1923. Serial No. 645,035. 2 Claims. (Cl. 33—104.)



1. A plotting instrument comprising a polygonal plate made of flexible material, the sides of the plate having parallel edges, scales on the plate adjacent said edges, and a scale extending between and at right angles to said scales, one end of the plate having two reentrant and converging edges adjoining each other and extending at acute angles to said scales, said plate being adapted to be flexed and positioned so that a portion thereof containing one of said reentrant edges will overlie an additional instrument and the edge adjoining said one edge will engage an edge of the additional instrument to angularly position the side edges of the plate parallel to a line of reference so that parallel and perpendicular distances relatively to said reference line may be simultaneously measured by means of the scales.

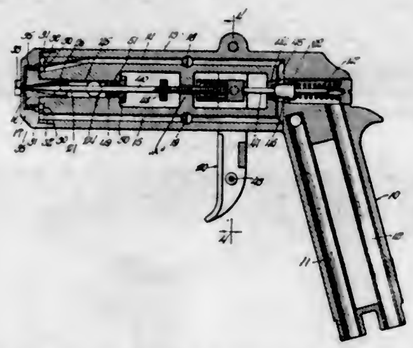
1,682,036. CEMENTING MACHINE. JOHN W. COSGROVE, Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 27, 1922. Serial No. 556,870. 14 Claims. (Cl. 91—49.)



5. In a cementing machine, a cement-applying roll, a co-operating work-supporting roll, means for rotating said rolls to advance the work, and a work-supporting finger fixed adjacent to the supporting roll and opposite the applying roll and at a greater distance from the applying roll than is the supporting roll.

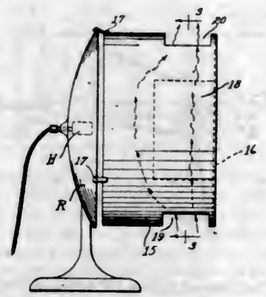
14. In a coating machine, an applying member, a plurality of pressure members for holding the work in engagement with the applying member, and means having a portion arranged to guide the work in contact with plural pressure members and a portion arranged to guide said work in contact with a different number of pressure members than are made effective by the first-mentioned portion.

1,682,037. SPRAY GUN. ALBERT M. CRAIG, Chicago, Ill. Filed Oct. 20, 1924. Serial No. 744,544. 17 Claims. (Cl. 91—45.)



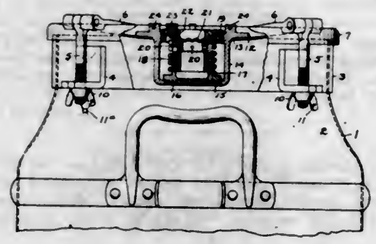
1. A spray gun having a barrel portion, having a face lying substantially in a transverse plane, said face having two air distributing channels therein, a color tip covering one of said channels, an air cap covering the other distributing channel, said color tip having a paint supply passage therethrough, and having passages therethrough placing the distributing channel covered thereby in communication with the space between the color tip and the air cap, said air cap having a spreader jet passage therein in communication with the distributing channel covered by said air cap.

1,682,038. RADIANT-HEATER ATTACHMENT. GEORGE L. DAVENPORT, Jr., Los Angeles, Calif. Filed Aug. 1, 1927. Serial No. 209,832. 2 Claims. (Cl. 126—86.)



2. The combination with a radiant heater employing a concavo-convex reflector, of an attachment therefor consisting of a cylindrical body member open at its rear portion and closed at its front portion, the open rear portion having a diameter agreeing approximately with that of the reflector of the heater, a cylindrical baffle extending from the closed front portion of the body member and terminating in spaced relation to the said open rear portion and being of less diameter than the inside diameter of the body member, the body member having an air intake opening at a point beneath the baffle and an outlet opening above the baffle for the heated air, and means securing the body member to the reflector of the heater so as to closely relate the said open rear portion with the concave of the reflector.

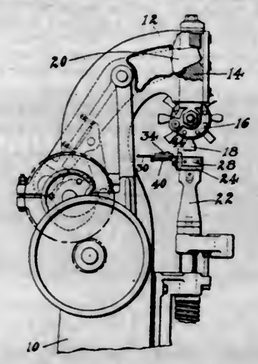
1,682,039. CONTAINER. RALPH L. FEAGLES, Fort Wayne, Ind. Filed Nov. 3, 1926. Serial No. 145,945. 3 Claims. (Cl. 220—44.)



1. The combination, with an open top receptacle, of a lid adapted to receive the mouth of the receptacle, co-operating means on the lid and on the receptacle for locking and sealing the lid to the receptacle, a vent in the lid and a spring opposed valve below the lid and normally closing the vent and adapted to open the same under the influence of an accumulation of pressure within the receptacle.

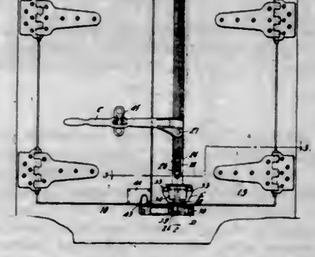
1,682,040. WORK-POSITIONING DEVICE. JOHN C. HARDIE, Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 14, 1926. Serial No. 129,203. 6 Claims. (Cl. 101—407.)

1. In a machine for operating upon boot and shoe parts, a work-positioning device comprising a work support, a slidable end gage associated with said work support and resiliently held in forward position, and relatively fixed indicating means associated with the work support and constructed and arranged to cooperate with another portion of a piece of work to enable the operator to move



each piece of the work against the tension of the gage to bring that piece of work to desired position over the work support.

1,682,041. REFRIGERATOR - CAR - DOOR - OPERATING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Jan. 21, 1924. Serial No. 687,528. 12 Claims. (Cl. 268—72.)

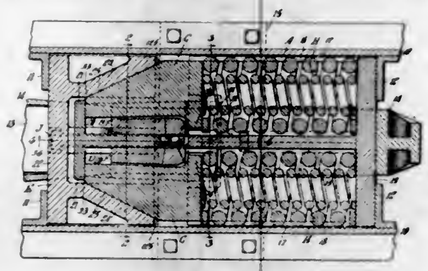


1. In a door operating mechanism, the combination with a member having a door opening and a pivoted door; of a keeper fixed to said member adjacent the door opening, said keeper being provided with an elongated slot; an operating rotary shaft mounted on the door; means for rotating the shaft; means for effecting bodily movement of the shaft transversely of the door when rotated; and eccentric means on said shaft co-acting with the slot of said keeper for effecting movement of the door, said means being moved eccentrically to the shaft while partaking of the bodily movement of the shaft.

1,682,042. FRICTION SHOCK-ABSORBING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Dec. 11, 1926. Serial No. 154,077. 12 Claims. (Cl. 213—36.)

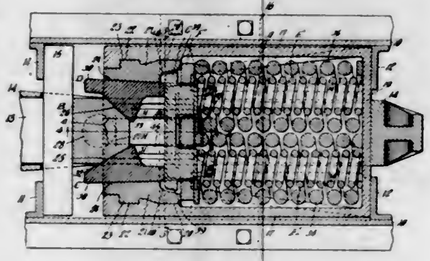
1. In a friction shock absorbing mechanism, the combination with a main follower; of a friction post; in-

wardly acting wedge means, said wedge means and main follower being relatively movable toward and away from each other; friction shoes co-operating with said wedge means; spring resistance means opposing relative movement of said shoes and main follower; movable friction



elements interposed between the friction post and shoes; and means for arresting relative movement of the main follower and friction elements after a predetermined compression of the mechanism, thereby compelling relative movement of said shoes and friction elements during the remainder of the compression stroke.

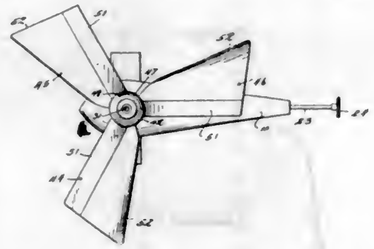
1,682,043. FRICTION SHOCK-ABSORBING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 16, 1927. Serial No. 168,558. 10 Claims. (Cl. 213—32.)



1. In a friction shock absorbing mechanism, the combination with a friction shell; friction shoes cooperating therewith; spring resistance means opposing movement of the shoes; a wedge engaging the shoes; and means for holding the wedge assembled with the shell, including retaining means providing a lost motion connection, said retaining means being separate from and embracing the wedge and detachably anchored to the wedge and shell.

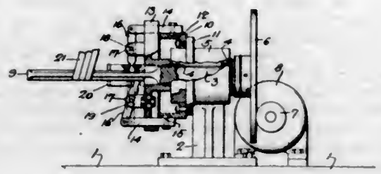
1,682,044. FAN. HEINRICH G. HERION, New York, N. Y. Filed Feb. 14, 1928. Serial No. 254,278. 3 Claims. (Cl. 230—261.)

1. A fan of the character described including a body, a shaft operatively supported within the body and carrying a pinion, a reciprocable rack mounted upon the body and having teeth engaging said pinion and having a stem extending out beyond the body whereby the rack may be reciprocated, a spring resisting movement of the rack in one direction and resiliently urging it in the opposite direction, a second shaft having fan blades thereon, a gear wheel loosely mounted upon the first named shaft and operatively engaging the second named shaft to rotate it, a friction clutch between the first named shaft and the gear wheel comprising a cam having a plurality of lobes, each lobe having a curved edge face, the gear wheel being recessed for the reception of said eccentric, and circular members mounted within said recess and disposed between the curved edges of the lobes and the outer wall of the recess, said clutch being operative upon an inward



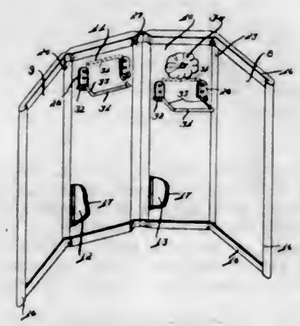
movement of the stem to clutch the shaft to the gear wheel but become inoperative upon an outward movement of the stem.

1,682,045. TUBE-WINDING MACHINE. CHARLES HOLLMANN, Fort Wayne, Ind. Filed Apr. 11, 1927. Serial No. 182,648. 6 Claims. (Cl. 93—80.)



1. In a tube winding machine, a rotatable mandrel, reciprocable members longitudinally disposed in the mandrel, means engaging the members and adapted to reciprocate them and a fixed member movably engaged by the latter means to cause said means to reciprocate the members.

1,682,046. COMBINATION TIE AND COLLAR FOLDER. RAYMOND E. JOHNSON, Manistee, Mich. Filed Nov. 5, 1927. Serial No. 231,358. 3 Claims. (Cl. 150—53.)



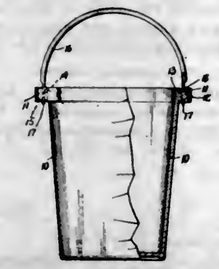
1. A folder of the class described, comprising: a pair of end panels; a pair of intermediate panels; a covering extending around said panels, said covering forming a flexible hinge intermediate the adjacent edges of said intermediate panels and intermediate the adjacent edges of said end panels and said intermediate panels; a non-flexible reinforcing member in said intermediate panels; a flexible reinforcing member in said end panels; and supporting means on the inner face of each of said intermediate panels.

1,682,047. SIGN HOLDER. JOHN T. LANG and CHARLES F. SCHOEFER, Tottenville, N. Y. Filed Sept. 26, 1927. Serial No. 222,049. 1 Claim. (Cl. 40—125.)



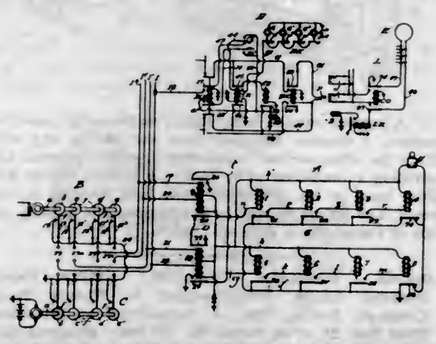
The combination with a seat back, of an advertising display device comprising a slotted sign holder, a sign in said slot, a removable retainer forming a top for the sign holder and being slotted to fit over the upper edge of the sign, a depending tongue on one end of the retainer, an extension on the opposite end, a tubular portion on one end of the holder into which said extension fits, a slotted portion on the opposite end of the holder into which the tongue fits, means for locking the tongue in the slotted portion, and means for securing the holder to the seat.

1,682,048. RECEPTACLE AND HANDLE THEREFOR. LOUIS LEVIEN, New York, N. Y. Filed Aug. 24, 1927. Serial No. 215,162. 2 Claims. (Cl. 215—100.)



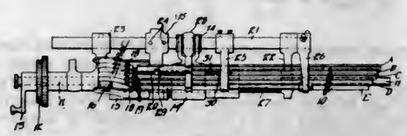
1. A glass receptacle having two pairs of tapered projections integral therewith, holding projections integral with said receptacle and located in the spaces between said tapered projections and substantially flush with the outer surface of said tapered projections, and a handle made of resilient material having perforated ends adapted to engage said recesses.

1,682,049. ALARM CIRCUIT. JOHN F. MEYERS, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 13, 1924. Serial No. 743,237. 5 Claims. (Cl. 177—311.)



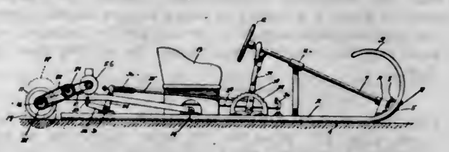
1. An alarm system for ringing interrupters comprising in combination, an alarm, an alarm circuit, means for maintaining the alarm circuit open during the normal operation of the interrupter comprising a train of quick-pick-up-slow-release relays, means whereby the first relay of the train is energized periodically by the interrupter, means whereby the energization of each of the remaining relays is controlled by its preceding relay independently of the interrupter and means whereby the deenergization of the last relay in the train closes the alarm circuit, the number of relays and their period of release being such that the last relay of the train will not be deenergized between successive closures of the circuit of the first relay by the interrupter.

1,682,050. FEEDING ATTACHMENT FOR KNITTING MACHINES. WILLIAM NEBEL, Charlotte, N. C. Filed May 27, 1926. Serial No. 112,140. 8 Claims. (Cl. 66—128.)



8. In a knitting machine, a main yarn carrier rod for the instep yarn, splicing yarn carriers for constant width sole splicing, a first set of stops for limiting the movement of the carrier rods in one direction, a second stop means spaced from but moving with said first set of stop for limiting the movement of the splicing carrier rod in the opposite direction, said first and second stops both movable simultaneously inward step-by-step for narrowing, means independent of said first and second stops normally out of operative relation to said splicing carrier rod for moving it inwardly simultaneously with said first and second stops in the same direction and for the same distance at each step in the narrowing operation, the inward movement of the first stops serving to limit the movement of the instep yarn carrier whereby the first and second stops for the splicing yarn carrier may be shifted at the end of each course.

1,682,051. MOTOR TOBOGGAN. HERMAN E. PEARSON, Wayzata, Minn. Filed Mar. 1, 1924. Serial No. 696,358. 2 Claims. (Cl. 180—6.)

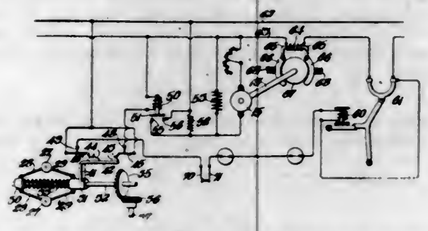


1. In combination with a toboggan having a driver's seat substantially intermediately thereof in a lengthwise direction, a frame pivoted at one end substantially beneath the seat and extending rearwardly, said frame having traction means engageable rearwardly of the toboggan, means mounted upon the frame for driving said traction means, means for raising and lowering the frame, including a lever, and rod, said rod extending to a point forwardly of the seat, and an operating lever pivotally engaged with the forward end of the rod, and arranged in front of the driver's seat.

1,682,052. ESCALATOR. ARTHUR RADCLIFFE, Boston, Mass. Filed Jan. 30, 1926. Serial No. 84,929. 4 Claims. (Cl. 198—232.)

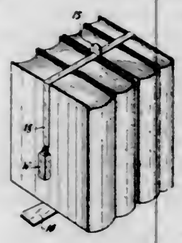
2. An escalator having in combination an endless conveyer member, an electric motor for driving said conveyer member, a circuit for said motor, a governor operatively connected with said conveyer member and responsive to the speed thereof, a plurality of independent circuits pro-

vided with circuit controllers, and a controlling member co-operating with said independent circuit controllers and operated by said governor to maintain both of said circuit controllers closed when the conveyer member is running at normal speed, to open the circuit governed by one of said circuit controllers when the speed of the conveyer



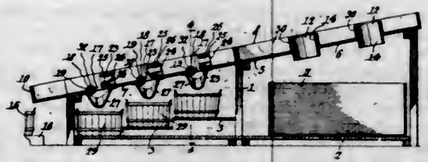
member exceeds the normal speed a predetermined amount, to maintain the circuit governed by the other circuit controller closed at said increased speed of the conveyer member, and to open the circuit of the second circuit controller when the speed of the conveyer member is increased a further predetermined amount.

1,682,053. BOOK SUPPORT. FELIX J. RUSH, New York, N. Y. Filed Dec. 20, 1927. Serial No. 241,430. 4 Claims. (Cl. 211—43.)



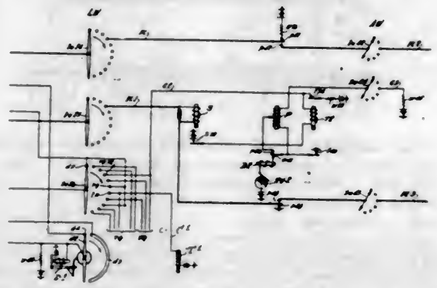
1. A book support comprising a base, a standard of thin construction extending upward therefrom and including a slide for additional elevation and against the opposite sides of which a plurality of books may be nested closely, and flexible means carried by the upright for engaging outward over the remote sides of books for holding them upright.

1,682,054. PEACH-SIZING MACHINE. WILLIAM H. TAYLOR, Anna, Ill. Filed Feb. 27, 1926. Serial No. 91,180. 1 Claim. (Cl. 209—103.)



In a fruit-sizing machine, an inclined sizing deck having an opening, a sizing roller journaled at the lower edge of the opening, means for rotating the roller, a gate on the deck at the upper edge of the opening, the gate being spaced from all portions of the roller and being inclined upwardly from the deck toward the upper portion of the surface of the roller, there being an unincumbered opening between the gate and the roller, the gate cooperating with the roller to vary the effective size of the opening, and means for holding all portions of the gate fixedly in adjusted positions and in spaced relation to the roller at all times.

1,682,055. TELEPHONE SYSTEM. ADOLF WASCHNACK, Neu Finkenkrug, Germany, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Filed Mar. 1, 1924, Serial No. 696,130, and in Germany Mar. 29, 1923. 8 Claims. (Cl. 179—18.)



1. In a telephone system, an automatic switch, subscribers' lines and trunk lines terminating in the banks of said switch, a set of wipers for said switch adapted to be moved in one direction only, means responsive to impulses sent to said switch for moving said wipers into engagement with the set of bank contacts corresponding to the number of impulses sent, said means including a side switch, and means for determining the extent of operation of said side switch depending on whether said wipers are positioned on the contacts terminating a subscriber's line or a trunk line.

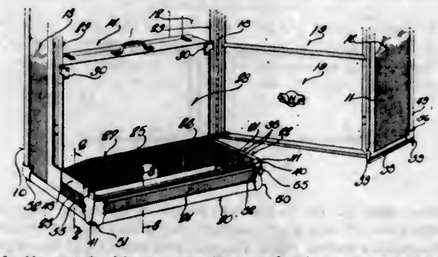
1,682,056. BAGGAGE CARRIER. GEORGE HENRY WHEARY, Racine, Wis., assignor to Wheary Trunk Co., Racine, Wis., a Corporation of Wisconsin. Filed Sept. 15, 1924. Serial No. 737,824. 10 Claims. (Cl. 190—13.)

3. A baggage carrier, comprising two hingedly connected sections, a member extended from one section and over which the other section is movable to closed position and providing a compartment to receive a portion of the garments hung in the section to which said member is connected, and means carried by the member for holding the ends of the garments disposed therein.

1,682,057. BAGGAGE CARRIER. GEORGE HENRY WHEARY, Racine, Wis., assignor to Wheary Trunk Company, Racine, Wis., a Corporation of Wisconsin. Filed Nov. 24, 1924, Serial No. 751,888. Renewed Mar. 28, 1927. 21 Claims. (Cl. 190—28.)

7. A baggage carrier, comprising a pair of hingedly connected sections each including front and side panels, a

member extended laterally from one section and over which the other section is movable to closed position, said member including front and side panels, a valance carried by the front panel of the movable section and the side panel there-

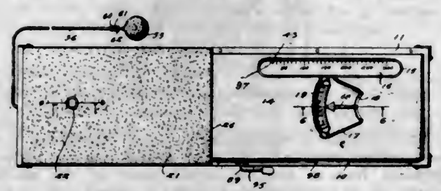


of adjacent the hinge connection, said valance overlying the adjacent side and front panels of said member when the sections are closed, and a valance carried by the other side panel of said member and overlying the adjacent side panel of the movable section when the sections are closed.

1,682,058. PROCESS FOR MAKING METALLIC TUNGSTEN. KOJI ANJOW, Tokyo Fu, Japan, assignor to Mitsubishi Kogyo Kabushiki Kaisha, Tokyo, Japan, a Corporation of Japan. Filed July 3, 1926, Serial No. 120,532, and in Japan May 18, 1926. 4 Claims. (Cl. 75—17.)

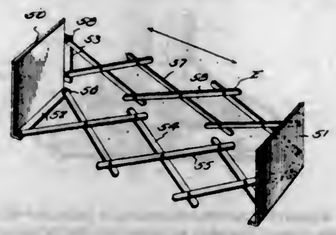
1. A process of treating crude metallic tungsten to obtain technically pure tungsten therefrom, which consists in heating the crude metallic tungsten with an aqueous solution of alkali in a closed vessel under pressure.

1,682,059. GOLF PRACTICING MACHINE. JOHN CLAYTON BACKUS, Smethport, Pa. Filed July 16, 1927. Serial No. 206,277. 14 Claims. (Cl. 265—22.)



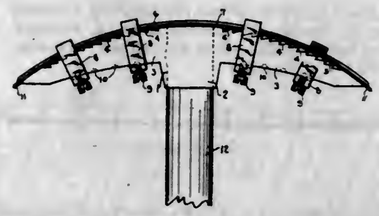
1. A golf practicing machine including a casing, distance-indicating means and direction-indicating means mounted upon the casing, and a captive golf ball operatively connected to said indicating means by a flexible element, a portion of the casing having thereon a mat simulating turf upon which the golf ball may be placed, said mat having therein a tee projecting above the mat upon which the ball may be placed.

1,682,060. ADJUSTABLE BOOKHOLDER. ROBERT W. BANKS, El Dorado, Ark. Filed Jan. 20, 1926. Serial No. 82,597. 1 Claim. (Cl. 211—43.)



A book holder comprising a pair of end plates, inwardly directed flanges formed on the lower edges of the end plates, book supporting lazy tong construction connecting the flanges together, inwardly directed flanges formed on the rear edges of the end plates, and a lazy tong construction connecting said last mentioned flanges together.

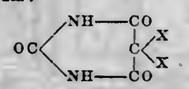
1,682,061. BRICKLAYER'S TOOL. ANDREW BELL, Youngstown, Ohio. Filed May 11, 1927. Serial No. 190,512. 1 Claim. (Cl. 125—42.)



1. In a device of the class described, a body member, a central eye in this body member for the reception of a handle, two downwardly curved arms projecting outwardly from said body member, a plurality of notches formed on the upper surface of said arms, a flexible point member having a downwardly turned end functioning in said notches and resting upon the upper surface of said notches, a flexible upper securing member positioned directly above said point members, a plurality of clamps holding securely said point members between an upper securing member and upper surface of said notches and including a clamp near the outer ends of said arms, means for adjusting and fastening said plurality of clamps, substsntially as described.

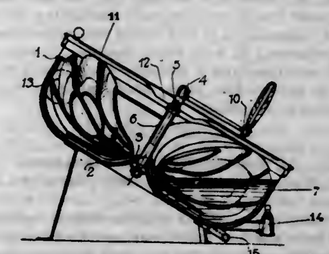
1,682,062. SOPORIFICS CONTAINING AT LEAST ONE ALKINYL GROUP. MAX BOCKMÜHL, RUDOLF SCHWABE, and GUSTAV EHRHART, Hochst-on-the-Main, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, New York, N. Y., a Corporation of New York. Filed Dec. 15, 1926, Serial No. 155,097, and in Germany June 11, 1925. 4 Claims. (Cl. 260—33.)

1. As new products, soporifics being derivatives of barbituric acid and containing at least one alkinyl group in the five position of the barbituric acid ring, corresponding to the general formula:



wherein X means an alkyl, alkenyl, alkinyl or phenyl group, but at least one X being an alkinyl group.

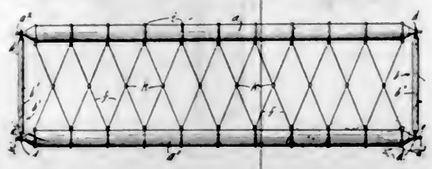
1,682,063. DISH WASHING AND DRYING MACHINE. JULES-LOUIS BRETON, Bellevue, France. Filed Mar. 24, 1925, Serial No. 17,983, and in France Dec. 31, 1924. 1 Claim. (Cl. 141—9.)



In a dish-washing machine, a tank having its axis inclined; and a dish support inside said tank mounted to rotate about an inclined axis coinciding with the tank axis,

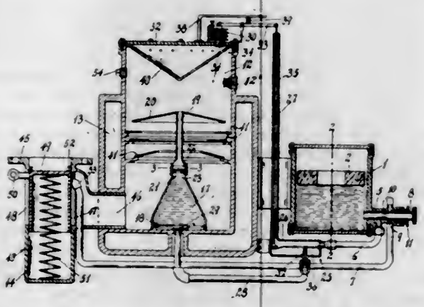
said dish support having means associated with it for holding dishes therein in a position such that each dish is inclined both to the axis of rotation and to the horizontal plane of the water level in the tank, whereby the successive dishes are caused to pick up and carry the water with them during their movement with the support and thereafter pour it upon the dishes below them.

1,682,064. RAFT FOR TRANSPORTING TIMBER. ALBERT H. BRYANT and EDWARD G. TUCK, Portland, Oreg. Filed July 6, 1927. Serial No. 203,800. 3 Claims. (Cl. 9—15.)



1. A raft of the character described comprising a substantially rectangular frame composed of rigid side-members extending the full length of the frame and rigid bands secured on the side-members, fastening elements secured to said bands, load carrying members comprising diverging cable-lengths secured to said fastening elements of the side-members and connected intermediate the latter, load securing cables also fastened to said fastening elements.

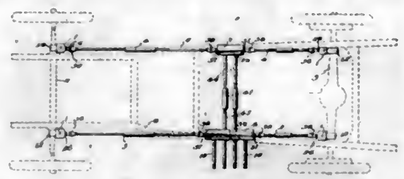
1,682,065. LIQUID-FUEL VAPORIZER. MURRICE T. BRYAN, Redondo Beach, Calif. Filed Nov. 14, 1925. Serial No. 68,976. 4 Claims. (Cl. 48—102.)



1. A liquid fuel vaporizer, comprising a float chamber, a liquid fuel vapor chamber, a liquid fuel receptacle on the bottom of said vapor chamber and having an opening therein, a jacket surrounding said vapor chamber in which hot exhaust gases are adapted to circulate, a liquid fuel pipe connecting said receptacle and said float chamber, and valve means in said liquid fuel receptacle controlling the opening from said receptacle into said liquid fuel vapor chamber, a syiphon connected to said vapor chamber, a second valve means in said pipe, and a control rod extending from said syiphon to said second valve means, whereby the second valve means is actuated.

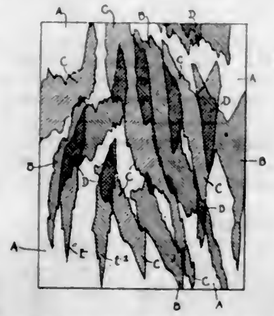
1,682,066. AUTOMOBILE JACK. FRANCIS C. CASEY, Claflin, Kans. Filed May 23, 1927. Serial No. 193,689. 4 Claims. (Cl. 254—86.)

1. In combination with a vehicle chassis including side bars and front and rear axles, bearings carried by said axles, posts movable vertically through said bearings, gear housings carried by the respective side bars intermediate the length of said chassis, driven shafts extending longitudinally of said chassis with their outer ends extending into said bearings and their inner ends into the gear housing on the respectively adjacent side bar, actuating shafts extending transversely of said chassis and having ends projecting from one side of said chassis whereby said shafts may be selectively rotated at a single operating point the



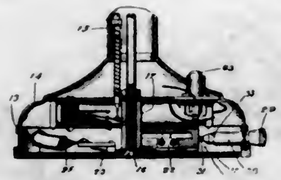
other ends of the actuating shafts being each disposed within one of said gear housings and having geared connection with a driven shaft therein, and means for transmitting vertical movement to said posts from companion driven shafts when the respective actuating shafts are rotated.

1,682,067. MARBLEIZING PROCESS. LLOYD V. CASTO, Detroit, Mich., assignor to Oxford Varnish Corporation, Detroit, Mich., a Corporation of Michigan. Filed Jan. 24, 1927. Serial No. 163,200. Renewed Mar. 16, 1928. 14 Claims. (Cl. 101—170.)



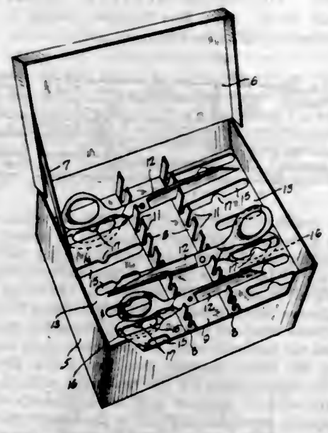
10. A process of reproducing a marble appearance on a hard surface comprising using an etched printing surface prepared from a positive carbon resist of the marble surface to be simulated by applying a ground coat to the surface to be finished, then using the etched plate or roll to make transfers of different colors, each successive transfer being made by using a pigment of a darker color than any of the preceding applied pigments.

1,682,068. SELECTIVE TELEPHONE SYSTEM. JOHN F. CAVANAGH, Providence, R. I., assignor to The Screw Machine Products Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Nov. 24, 1924. Serial No. 751,824. 17 Claims. (Cl. 179—27.)



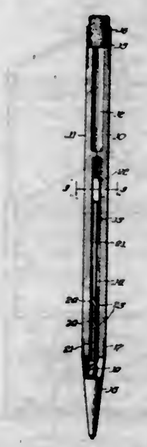
1. In a selective telephone system, a plurality of stations, means for connecting said stations in circuit, an automatic selecting switchboard for partially completing the connection between said stations, controlling means interposed in said connecting means at one of said stations for connecting that station to be called before the connection between any two other stations can be completed, and manually operable means for completing the connection between said two other stations.

1,682,069. SHIPPING AND DISPLAY BOX. JOHN J. CONWAY, Bridgeport, Conn., assignor to The Acme Shear Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Nov. 8, 1927. Serial No. 231,849. 5 Claims. (Cl. 206—44.)



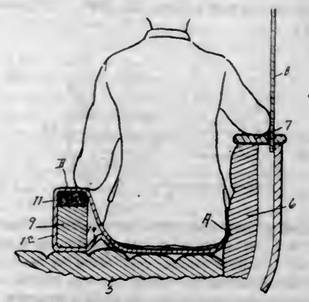
1. A shipping and display box comprising a body and a cover therefor, a transverse partition and support spaced above the bottom of the body, and having transversely extending slots to receive a bow of a pair of shears, and an upright longitudinally extending rack having vertical notches in its upper edge to receive the blades or shanks of the shears and hold them in the upright position.

1,682,070. PENCIL. FRANK C. DELI, Chicago, Ill., assignor to Autopoint Company, Chicago, Ill., a Corporation of Illinois. Original application filed Oct. 3, 1921, Serial No. 504,839. Divided and this application filed Dec. 30, 1924. Serial No. 758,831. 3 Claims. (Cl. 120—18.)



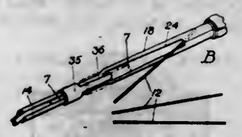
1. In a pencil, the combination of a body, and lead-advancing mechanism including a plunger, said plunger having side projections that act as threads, said projections being formed of metal that has been displaced laterally from the body of the plunger.

1,682,071. MOVABLE ARM REST. JOHN FINN, Mill Valley, Calif. Filed May 9, 1927. Serial No. 189,935. 2 Claims. (Cl. 155—198.)



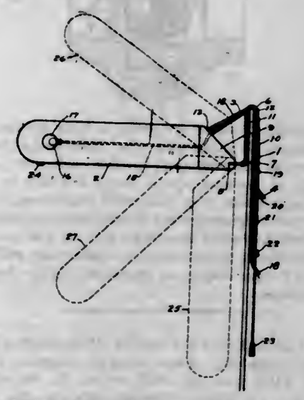
1. In a movable arm rest for use in combination with a seat, a block adapted to rest upon the seat, a fabric strip secured to said block adjacent the upper and lower extremities thereof and extending to one side of said block.

1,682,072. PENCIL. HOWARD L. FISCHER, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed May 25, 1925. Serial No. 32,788. 8 Claims. (Cl. 120—14.)



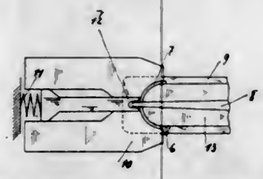
2. A closure for a pencil lead magazine, including a spring collar, and a closure tongue formed on said collar.

1,682,073. SIGNAL DEVICE. HERBERT E. FISHER, Seattle, Wash. Filed Oct. 22, 1927. Serial No. 227,918. 2 Claims. (Cl. 116—54.)



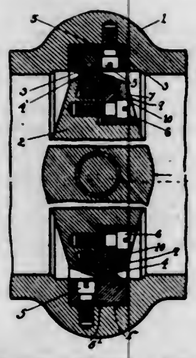
1. In a device of the class described, an arm comprising a comparatively thin flat piece of material with a hub at one end, a bracket for supporting the arm comprising a saddle and a wire, said wire bent in the form of an inverted U with means at the lower end of one leg for pivotally supporting the arm through the hub and a loop with converging sides at the lower end of the other leg, and a cord attached to the arm through the hub, passing over a saddle at the upper end of the bracket and through the loop at the lower end of the bracket the converging sides of the said loop being adaptable to hold the cord at different points to hold the arm in different positions.

1,682,074. METHOD FOR THE MANUFACTURING OF SNAPPERS FOR SNAP RINGS. BERNHARD FÖRSTER, Pforzheim, Germany. Filed Mar. 11, 1926, Serial No. 93,976, and in Germany Mar. 16, 1925. 2 Claims. (Cl. 29—160.6.)



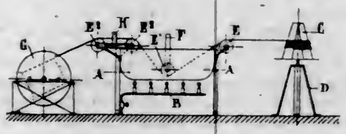
1. A method of manufacturing snappers for unslit snaprings from wire of circular cross section by means of a punch and of a hollow swage, consisting in securely holding during the bending a straight wire, which has been set-off near one end, in a punch in such a manner that the transverse central axis of the straight portion of said wire coincides with the axis of the punch so that when said punch is penetrating into the hollow swage the straight portion of the wire is uniformly bent to both sides to form a semi-circle.

1,682,075. WATER-TIGHT SEAT FOR BUTTERFLY VALVES. CHARLES V. FOULDS, Berkeley, Calif., assignor to The Pelton Water Wheel Co., San Francisco, Calif., a Corporation of California. Filed Dec. 9, 1925. Serial No. 74,255. 5 Claims. (Cl. 251—11.)



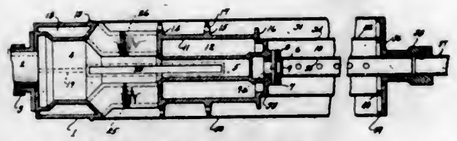
1. In a butterfly valve structure, a body member, a disk pivotally mounted therein, a ring detachably carried by the periphery of the disk and provided on its own periphery with a pair of circumferential seats bevelled in opposite directions, and a seat ring removably positioned within the body, said seat ring consisting of duplicate portions extending one on each side of the valve axis in end to end relation, said portions provided with a disk ring seating face, the faces of the respective portions being disposed in parallel relation.

1,682,076. PROCESS OF PROTECTING ELECTRIC AND OTHER CABLES. JEAN OCTAVE GOGRY, Vincennes, France. Filed Nov. 14, 1925, Serial No. 69,062, and in France Nov. 27, 1924. 7 Claims. (Cl. 91—70.)



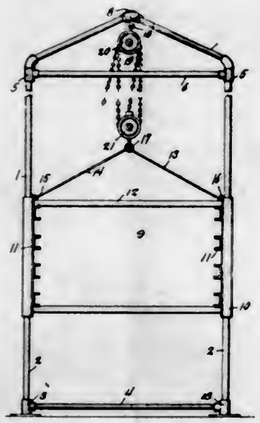
1. A process of treating insulated electric and other cables, comprising the steps of passing the cable through a hot drying-oil bath and then subjecting it to a drawing action, so as to leave merely a thin film of coating on the surface of the insulation; drying the coated cable; passing it through a hot gum bath and then subjecting it to a second drawing action; and then subjecting the cable, after having undergone the second drawing action, to a drawing action in the presence of heat to cause the constituent materials of the two baths to combine and to force them into the interstices of the insulation.

1,682,077. AIR-COOLED MUFFLER. EMMET P. GRAY, Detroit, Mich. Filed May 8, 1926. Serial No. 107,546. 12 Claims. (Cl. 257—16.)



1. A muffler comprising a substantially cylindrical head having a central cylindrical chamber, a cylindrical shell surrounding the central chamber and spaced therefrom providing a ring like outer chamber, passageways leading from the central chamber to the exterior of the outer shell, said passageways being formed by walls extending from the wall of the inner chamber to the wall of the outer chamber, ribs provided on opposite sides of the inner shell member separating the outer chamber into two parts, the said ribs being in continuation of the walls for said passageways from the central chamber and the said walls of the said passageways terminating short of the end of the said head and thus providing for communication between the two halves of the outer chamber, an inlet channel for one of the said halves at the forward end and a discharge channel for the other half and located at the said forward end, the said channels and outer chamber providing an air channel, a shell about the said head and into which the said passageways from the central chamber open, and a discharge conduit through which the gases flow from the interior of the said shell.

1,682,078. ELEVATING-TRANSFER-STORAGE RACK. CLIFFORD F. HANLEN, Phoenix, Ariz. Filed May 31, 1927. Serial No. 195,530. 2 Claims. (Cl. 187—11.)



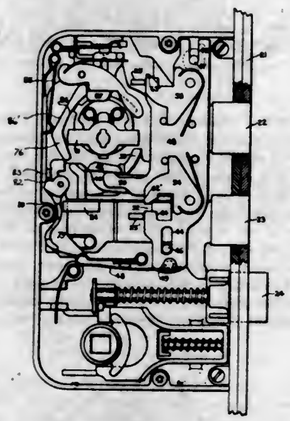
1. In combination, a frame structure including vertical corner bars, cross bars connecting the corner bars together and arch bars extending over the frame and connected together centrally of the frame, a carriage slidably supported by the corner bars and a lifting device secured to the carriage and to said arch bars at their central connections.

1,682,079. WINDOW-SHADE AND LACE-CURTAIN SUPPORT. JEFFERSON DIXON HANNAH, Fayetteville, Ark. Filed July 22, 1925. Serial No. 45,370. 5 Claims. (Cl. 156—23.)



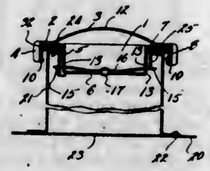
5. A device of the character described comprising a flat bar, a curtain rod holder comprising a small rod with an eye at one end, and means for clamping said rod to the face of the bar, said clamping means comprising a member adapted to bear against the rear face of the bar and having at one end a flange with an opening for receiving the holder, and means connecting the other end of said member to said eye for mutually drawing said member and said holder into clamping relation to said bar.

1,682,080. LOCK. FREDERIC K. HEYER, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Dec. 28, 1927. Serial No. 243,160. 38 Claims. (Cl. 70—93.)



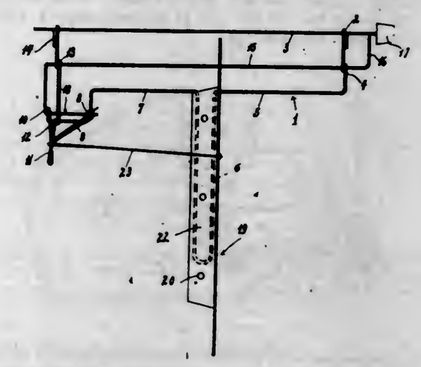
1. A lock comprising two bolts, a single selective mechanism for controlling the operation of said bolts, and a plurality of axially alined cams adapted to operate said selective mechanism.

1,682,081. CLOSURE. ALLEN A. HORTON, Plymouth, Mich., assignor, by mesne assignments, to The Eaton Axle & Spring Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 6, 1926. Serial No. 139,896. 1 Claim. (Cl. 220—40.)



A closure for devices having opposed cam portions, comprising a one piece outer wall and a one piece inner wall, said inner wall including a depending cup-shaped portion, an outwardly extending annular portion at the top thereof, and a depending cylindrical axially corrugated skirt portion at the outer edge of said annular portion, said outer wall including a central portion and a depending cylindrical axially corrugated skirt portion at the outer edge thereof, said central portion of the outer wall overlying the cup-shaped and annular portions of the inner wall and contacting with the latter portion, whereby an air chamber is provided between the cup-shaped portion of the inner wall and the central portion of the outer wall, said central portion being provided with an aperture venting said chamber to the atmosphere, the skirt portions of the inner and outer walls being arranged in interlocking relation with the lower end of the skirt portion of the outer wall bent inwardly beneath the skirt portion of the inner wall so as to firmly maintain the two walls in assembled relation, the interlocking corrugations of the skirt portions of the two walls preventing relative rotary movement thereof, the cup-shaped portion of the inner wall being provided in its side with two opposed openings which vent the air chamber to the inside of the device to be closed when the closure is applied to said device, and an elongaed inherently resilient locking member arranged in said air chamber, said locking member intermediate its ends being secured to the bottom part of the cup-shaped portion of the inner wall and having its two end portions projecting outwardly through the opposed openings of said cup-shaped portion, whereby said projecting end portions of the locking member are free for engagement with the cam portions of the device to be closed when the closure is applied thereto.

1,682,082. KITE-STRING TRAVELER. CORTES JOHNSON, Long Beach, Calif. Filed Oct. 18, 1926. Serial No. 142,492. 4 Claims. (Cl. 244—24.)

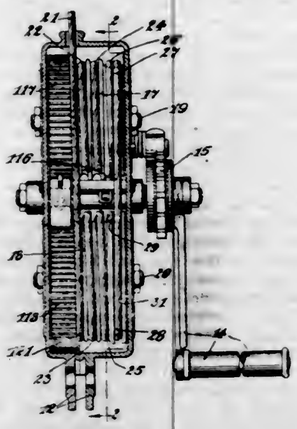


1. A kite string traveler comprising a frame formed of a single strip of wire, loops formed on either end of said strip through which the kite string is adapted to extend, a trigger slidably mounted in said frame, a vane secured to and depending from the said frame, hinged wings on said vane, strings secured to said wings adapted to be attached to the trigger, said trigger being adapted to engage an obstruction on the kite string, thereby releasing said strings and permitting the wings to fold and returning the traveler.

1,682,083. LIFTING APPARATUS. FRANK B. JOHNSTON, Roselle Park, N. J., assignor to American Safety Device Company, New York, N. Y., a Corporation of New York. Filed Jan. 6, 1927. Serial No. 159,273. 4 Claims. (Cl. 254—167.)

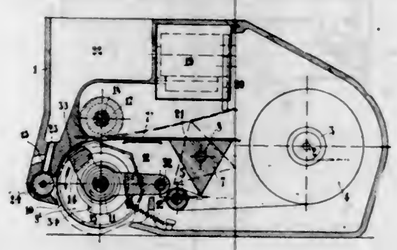
1. In a lifting apparatus as described, the combination of: a two shelled casing, two grooved pulleys mounted on parallel axes within the casing and each being provided with a gear, a manually operated pinion engaging with the gears of the pulleys, and a safety device consisting of a pair of levers pivotally supported by the casing in eccentric rela-

tion, and jaw members associated with the free ends of the levers, a cable encircling the pulleys and passing through said safety device, the jaw members being so disposed as to



permit of the passing of the cable between them in one direction, but to grip the said cable and prevent the opposite movement thereof.

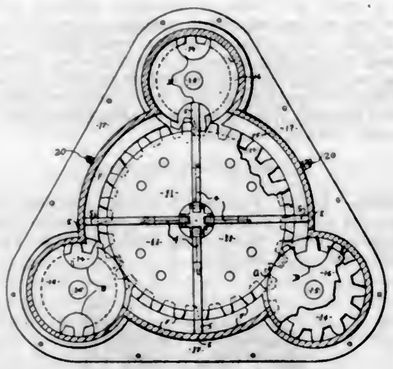
1,682,084. STAMP AND TICKET DELIVERING MACHINE. HENRI LEOPOLD, Paris, France. Filed Aug. 2, 1926, Serial No. 126,647, and in Belgium Aug. 14, 1925. 14 Claims. (Cl. 216—33.)



1. A stamp or ticket delivering machine utilizing a rolled-up strip of stamps or tickets, comprising a manually shiftable casing to contain the roll and having a delivery opening; a rotatable strip-feeding drum within the casing operated by the manual shifting movement thereof; perforating means operated automatically during the travel of the strip through the machine for forming tear lines therein; and means coacting with said drum for detaching the stamps one at a time from the strip during the said movement of the casing.

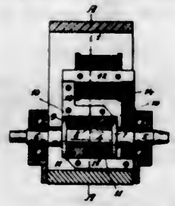
1,682,085. HYDRAULIC CLUTCH TRANSMISSION. EDWARD H. MCKINNEY, Salina, Kans., assignor to The Hydraulic Specialty Manufacturing Company, Topeka, Kans., a Corporation. Filed Mar. 23, 1925. Serial No. 17,768. 1 Claim. (Cl. 192—58.)

A hydraulic clutch mechanism comprising a drive shaft hollow towards the clutch end in its longitudinal axis; a second shaft co-axial with the drive shaft and operatively engaging for endwise sliding movements within the hollow end of the drive shaft and means for occasioning such endwise movements of the second shaft; a housing member in two sections as a fluid tight enclosure; a gear rigid with the drive shaft within the housing member and an end bearing for said second shaft also within the housing member; three spindles positioned at 120° apart with respect to each other around the second shaft element, and rotatably housed at their opposite ends within bearings in the side elements of the housing member, each spindle rotatably connected to and supporting a roller element with a gear element integral therewith in mesh with the first gear; a plurality of sectional cuts in each roller element; four quadrants rigidly affixed to said end bearing intermediate the first gear and the outer side element of the housing member and spaced apart to provide four slots radiating



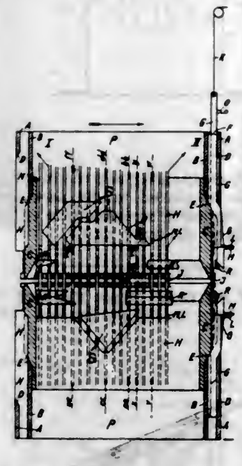
from the axis of the second shaft; a space F intermediate the quadrants and the housing member as a fluid container; the outer end of the second shaft having the cross-sectional character of a cross, a link pivotally attached to each rib element of said cross, a blade within each quadrant slot pivotally connected to its respective link element, endwise movements of the second shaft operating to transmit contracting or expanding movements to said blades and which under expansion thereof and under gear rotation cause said blades to register with the sectional cuts in the roller elements while serving to create a dam for fluid movements within the space F and correlated parts for clutch purposes.

1,682,086. MAGNETO-ELECTRIC MACHINE. GINO MODIGLIANI, Ivrea, Italy, assignor to the Firm Ing. C. Olivetti & C., Ivrea, Italy. Filed June 1, 1927, Serial No. 195,755, and in Italy Sept. 27, 1926. 2 Claims. (Cl. 171—209.)



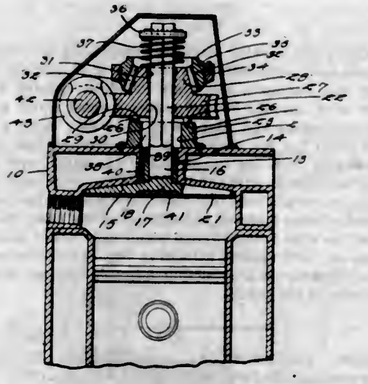
1. A magneto electric machine comprising a fixed armature, a fixed magnet, fixed core ends for the armature extending into two polar expansions provided so that one of them lies above the axis of rotation of the machine, the other below the same axis, and both expansions being formed in their inside so as to form a cylindrical cavity, a revolving part rotating in the cavities whose magnetic core consists of two circular segments connected mechanically together but insulated magnetically one from another, a nonmagnetic shaft for the revolving part, the parts forming the armature, that is the core expansion and its polar expansions, lie in the vertical axial plane of the machine, the expansion uniting the core of the armature to its lower end, and being provided with a large aperture allowing the shaft to go therethrough.

1,682,087. ROUND-KNITTING MACHINE. EMILIE ELSA MÜLLER, Chemnitz, Germany. Filed Feb. 7, 1925, Serial No. 7,596, and in Germany Feb. 14, 1924. 8 Claims. (Cl. 66—14.)



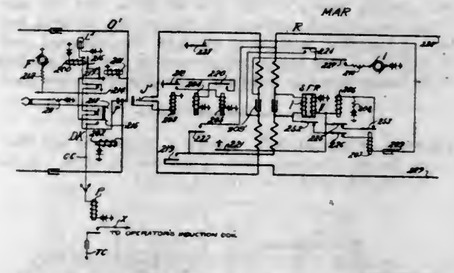
1. In a round knitting machine the combination with a needle bed of inclined guides on said bed and a plurality of angularly offset sinker jacks adapted to slide along said guides and a plurality of double-ended hooked needles in axial alignment with said jacks and engageable therewith.

1,682,088. ROTARY VALVE FOR INTERNAL-COMBUSTION ENGINES. EMIL T. NEUBAUER, Port Huron, Mich. Filed Mar. 19, 1927. Serial No. 176,722. 2 Claims. (Cl. 123—190.)



1. A rotary valve for internal combustion engines having a stem extending from one wall thereof, said wall being adapted to confront and bear against a wall of the engine cylinder, the opposite face of the valve having a plate applied thereto and means connecting the plate and valve permitting relative movement thereof due to differences in expansion.

1,682,089. TELEPHONE SYSTEM. JOHN E. OSTLINE, Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Apr. 2, 1925, Serial No. 20,035, and in Great Britain Apr. 24, 1924. 22 Claims. (Cl. 179—27.)



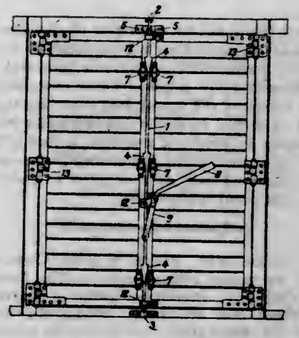
16. In a telephone system, a calling device, means including trunk lines for extending a connection in successive stages by operating said calling device, means for distinctively marking a trunk line at any stage, a signal, and means responsive to a trunk line being marked for operating said signal when said calling device is being operated.

1,682,090. MILK-BOTTLE COVER. CHARLES T. RASCHICK, St. Paul, Minn. Original application filed Feb. 25, 1925, Serial No. 11,453. Divided and this application filed Mar. 13, 1926. Serial No. 94,586. 2 Claims. (Cl. 215—38.)



1. A cover for a receptacle including, a body portion with a disk-like construction, spring fingers extending from said body portion, the free ends of which extend horizontally and approximately parallel to said body portion, and outwardly and downwardly extending lips formed on the free ends of said spring fingers.

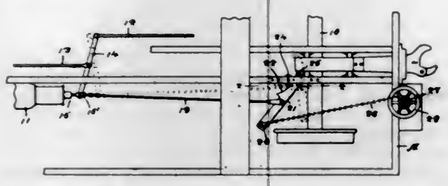
1,682,091. HEAT-TIGHT AND AIR-TIGHT CLOSING DEVICE FOR DOORS. ALFRED CARL FRIEDRICH RATHKE, Leipzig, Germany, assignor to Kühl-Transit-Verkehrs-Aktiengesellschaft, Leipzig, Germany. Filed July 12, 1926, Serial No. 121,995, and in Germany July 29, 1925. 2 Claims. (Cl. 292—161.)



1. A device for latching doors heat-tightly or air-tightly, comprising in combination a latching rod shiftable in longitudinal direction, pushing wedges on said latching rod,

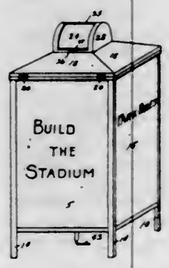
pushing means fixed on each door wing in the range of action of said pushing wedges, hinges of oval cross section on the door wings the oval of all hinges being inclined at the same acute angle towards the door plane, and a hand lever for lowering or raising said latching rod said pushing wedges acting at the lowering of the latching rod upon said pushing means on the door wings so that the door wings are pressed towards the hinges the packing surface of the door being thus enlarged, the sideward push of each door wing being transformed by the oval guiding in the hinges into a lateral push and into a transverse push.

1,682,092. CAR BRAKE. JULIUS H. REBSTOCK and WALTER MEYER, Centralia, Ill. Filed Oct. 9, 1926. Serial No. 140,498. 3 Claims. (Cl. 74—110.)



1. In a car brake mechanism, an arm connected with the brake rods, means for operating said arm including a rotatable shaft, a lever mounted on the frame of the car for both pivotal and sliding movement, a connection between the lever and said arm, a flexible element connected with one end of the lever and adapted to be wound about and unwound from said shaft, and means for rotating said shaft.

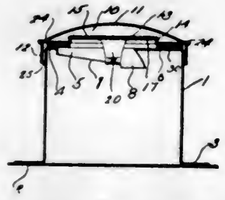
1,682,093. ADVERTISEMENT HOLDER. JACOB A. REDMAN, Portland, Oreg. Filed June 28, 1926. Serial No. 118,926. 1 Claim. (Cl. 220—36.)



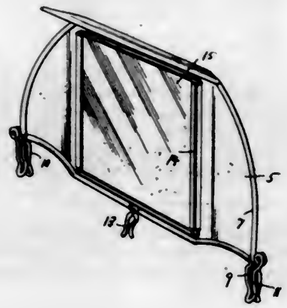
An advertisement holder consisting of an outer container having means for attaching advertisements to the outer sides thereof; a removable container within said outer container; a hinged cover for said outer container; a semi-cylindrical frame at the top of said cover having an opening therein; a curved rotatable door normally held in front of said opening by means of a spring; a foot pedal mounted on said outer container; and connecting means between said foot pedal and said door adapted to open said door when said foot pedal is depressed.

1,682,094. CLOSURE. JAMES S. REID, Cleveland, Ohio, assignor, by mesne assignments, to The Eaton Axle & Spring Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 13, 1926. Serial No. 141,342. 9 Claims. (Cl. 220—40.)

1. A closure for receptacle necks, comprising inner and outer walls having portions separated to provide an air chamber therebetween, securing means associated with the inner wall, vent means in said inner wall providing communication, when the closure is applied to the neck, between said air chamber and the outside atmosphere, and other vent means in said inner wall providing communication between said air chamber and the inside of the neck, when the closure is applied to the neck, said securing means being so arranged as to provide a baffle for one of the vent means of the inner wall.



1,682,095. PAN SHIELD. JOHN REYTHER, Ennis, Tex. Filed June 20, 1927. Serial No. 200,133. 1 Claim. (Cl. 53—7.)

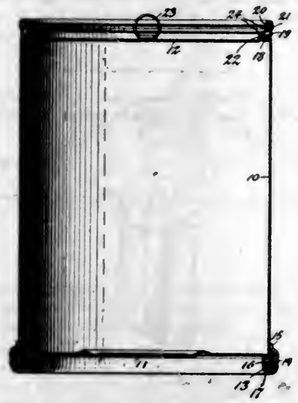


A shield for cooking utensils comprising a shield section arranged substantially vertically with respect to the utensil and having a relatively enlarged opening formed therein with channel shaped guides formed about its side and bottom edges and adapted to removably carry a transparent cover for the opening, a horizontal section extending inwardly from the upper end of the shield over a portion of the utensil, said shield having its lower edge turned inwardly to form a tube separated intermediate its ends and a strand of wire inserted in each end of the tube, the inner ends of the wire being twisted about each other combining to form an intermediate attaching clip and the outer ends thereof forming end attaching clips depending from the lower edge of the shield.

1,682,096. SHEET-METAL CONTAINER. WILLIAM F. SCHWEIGERT, Buffalo, N. Y. Filed Feb. 21, 1925. Serial No. 10,950. 1 Claim. (Cl. 220—61.)

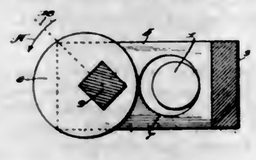
A sheet metal container comprising a tubular body which is provided near its upper end with a inwardly projecting pleat forming an internal outwardly facing annular shoulder, and at its upper end with an inwardly projecting flange forming an internal inwardly facing annular shoulder, a packing engaging its inner side with said outwardly facing shoulder, a cover having an annular flange at its

periphery which engages its inner side with the outer side of said packing and a split resilient fastening ring which is wedge shaped in cross section and provided with



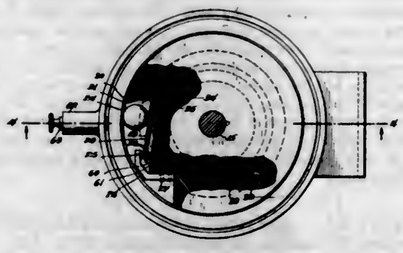
two annular flanges converging outwardly and engaging respectively with the outer side of said cover flange and the inwardly facing shoulder of the end flange on the body.

1,682,097. SEATING AND UNSEATING TOOL. RUDOLPH A. SHEFVELAND, Spokane, Wash., assignor of one-half to M. M. Kelliher, Spokane, Wash. Filed Aug. 28, 1926. Serial No. 132,246. 2 Claims. (Cl. 81—53.)



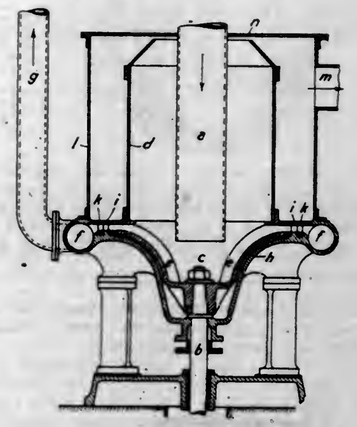
1. A frictionally acting tool for seating and unseating cylindrical members, comprising, a U-shaped frame having substantially alined openings in the limbs thereof adjacent the bight of said frame for receiving the member to be turned, an actuating shaft rotatively mounted in end portions of the limbs of said frame, and a cylindrical gripper disposed between said limbs and eccentrically and non-rotatively connected with said shaft for actuation thereby to impinge the member to be turned between a peripheral portion of said gripper and portions of the perimeters of said openings.

1,682,098. ELECTRIC CIRCUIT-CONTROLLING MEANS. PIERRE FRANK SONNEK, Woodhaven, N. Y. Filed Apr. 6, 1921. Serial No. 459,021. 9 Claims. (Cl. 200—52.)



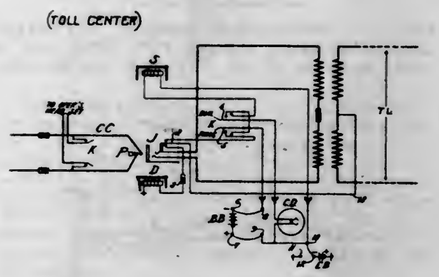
1. A means for opening and closing an electric circuit, including a constantly driven element, fixed and movable contacts connected in said circuit, a normally inactive element associated with said driven element and means capable of movement with relation to each of said elements for connecting them and simultaneously effecting the opening of said circuit, the disconnection of said elements effecting the closing of the circuit.

1,682,099. CENTRIFUGAL SORTING APPARATUS. FRIEDRICH SOÏEZ, Mannheim, Germany, assignor to Zellstoffabrik Waldhof, Mannheim-Waldhof, Germany, a Joint Stock Company. Filed Aug. 3, 1927, Serial No. 210,406, and in Germany Aug. 11, 1926. 11 Claims. (Cl. 92—35.)



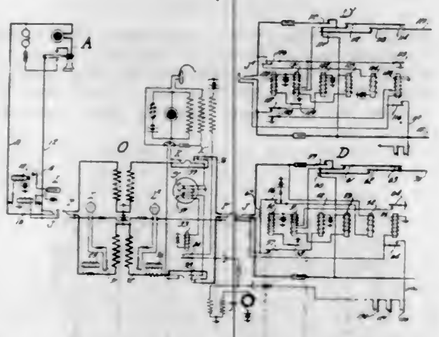
1. In combination with a vertical centrifugal screen, a centrifugal device by means of which knots and the like having greater specific gravity than pulp are substantially separated from the pulp before admitting the pulp into the screen.

1,682,100. TELEPHONE SYSTEM. JOHN WICKS, Oak Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Mar. 2, 1925. Serial No. 12,472. 36 Claims. (Cl. 179—27.)



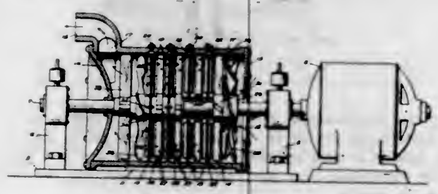
33. In a telephone system, a line, an operator's switchboard, means for extending a call from said switchboard to said line, a signal at said switchboard, means for operating said signal steadily when the call is answered, and means for operating said signal intermittently when the call is terminated.

1,682,101. TELEPHONE TRUNK CIRCUITS. BERNARD D. WILLIS, Oak Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed May 19, 1922. Serial No. 562,191. 17 Claims. (Cl. 179—27.)



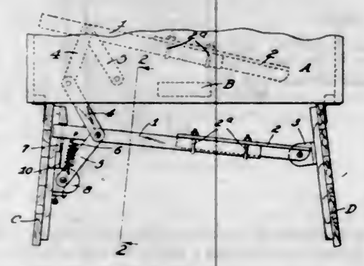
4. In a telephone system, a trunk line comprising two inductively connected sections, a line relay energized over the first section to close a bridge across the second section, and a relay included in the bridge and responsive to the initial closure thereof for closing said bridge at another point.

1,682,102. HOT-AIR GENERATOR. HENRY W. ALLEN, Seattle, Wash. Filed July 19, 1926. Serial No. 123,355. 3 Claims. (Cl. 126—247.)



1. A hot air generator comprising a casing having an air inlet and an air outlet therein, a driven shaft within said casing, a plurality of frictional means mounted within said casing, agitating means keyed to said shaft between said frictional means, and propeller fans keyed to said shaft at both ends of said casing for drawing air into and expelling it from said casing.

1,682,103. GARAGE-DOOR CONTROL APPARATUS. JOHN A. ANDERSON, Sherman, Calif. Filed June 24, 1926. Serial No. 118,187. 11 Claims. (Cl. 292—262.)



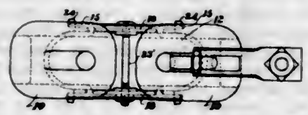
1. In a garage door control apparatus, a crossbar pivotally connected to one of the doors, a link pivotally connected near the free end of said crossbar and its other end pivotally connected to the garage, another link pivotally connected to said crossbar near its free end and its other end pivotally connected to the other door, a latch on the latter door adapted to receive the free end of said crossbar, a spring secured to said crossbar and to one of the doors, and means for releasing said crossbar from said latch.

1,682,104. PACKAGE. CHARLES H. ANDROS, Albany, N. Y. Filed June 25, 1923. Serial No. 647,597. 6 Claims. (Cl. 229—51.)



1. In a cigarette package, the combination with a wrapper having oppositely disposed portions thereof adjacent the ends of the cigarettes first infolded, and other oppositely disposed portions successively infolded over said first portions to form a closure for the end of said package, of a strip of flexible material, folded over the edge of one of said first mentioned portions and permanently associated therewith to form a tab extending to the exterior of the package where it may be grasped and pulled to remove the triangular part of said first mentioned portion which is visible when the package is sealed.

1,682,105. INSULATOR FITTING. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Mar. 1, 1923. Serial No. 621,975. 8 Claims. (Cl. 173—366.)

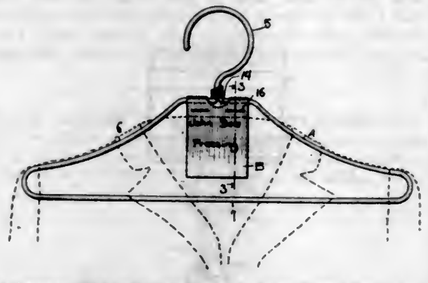


1. Connectors for insulators comprising a pair of yokes arranged to extend through openings in a pair of insulators to be connected, the ends of said yokes being bent to form hooks and plates overlapping said insulators and having openings therein for engaging said hooks to join said insulators to each other.

6. Connecting means for a pair of insulators having perforations therethrough, said connecting means comprising a yoke member threaded through each of said perforations, said yoke members having inner curved faces for engaging the insulators and having substantially flat outward faces, the ends of said yoke member being bent outwardly and backwardly to form hooks, channel shaped links for engaging said hooks to connect said insulators to each other and retainer bars extending from side to side of said channel shaped links to hold said hooks from straightening.

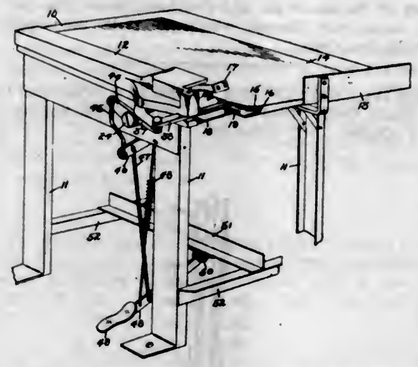
1,682,106. GARMENT-HANGER ATTACHMENT. ROBERT W. BANKS, El Dorado, Ark. Filed Aug. 23, 1926. Serial No. 131,062. 2 Claims. (Cl. 40—20.)

1. In comination, a coat hanger including a supporting body and a hook, of an advertising device including a rectangular blank of sheet material having a transverse line adjacent one end thereof defining an advertising portion and an attaching portion, the blank also having an opening at said transverse line for receiving the hook of



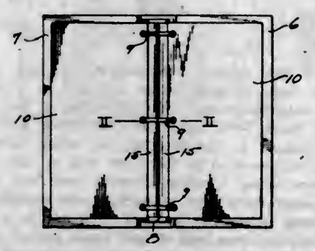
the hanger, the attaching and advertising portions embracing the opposite sides of the hanger, and fasteners for connecting the said portions together.

1,682,107. PROCESS AND APPARATUS FOR FOLDING VALVES IN BAGS. ADELMER M. BATES and GEORGE P. DORR, Chicago, Ill., assignors, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill., a Corporation of Delaware. Filed Aug. 17, 1925. Serial No. 50,586. 21 Claims. (Cl. 93—8.)



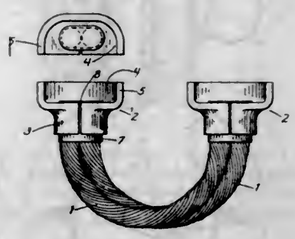
1. In valving apparatus, means to hold collapsed the side of a length of bag tubing adjacent the corner thereof, means to spread apart the sides of the tube between the gripping means and the corner of the tube, and means to tuck in the corner of the tube between the spread sides.

1,682,108. LOOSE-LEAF BINDER. FREDERICK G. BEVANS, Kansas City, Mo., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed Sept. 11, 1926. Serial No. 134,878 4 Claims. (Cl. 129—4.)



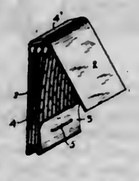
1. In a ring binder, of the character described, a pair of fly leaves carried by the rings of the binder, each having a curled back margin projecting within the rings, the edges of said fly leaves along the curled back margin abutting and engaging the binder metal when said binder is in the open position.

1,682,109. RAIL BONDING. WILLIAM P. BOYARD, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Oct. 31, 1923, Serial No. 671,898. Renewed June 3, 1926. 4 Claims. (Cl. 219—10.)



1. The method of attaching a rail bond to a rail, comprising the steps of applying to a lateral surface of a rail a copper conductor having a ferrous terminal member mechanically secured to one end thereof, the terminal member being provided with an upstanding flange projecting beyond the end of the copper conductor and forming with the surface of the rail a receptacle open at the top and surrounding on all sides, fusing a copper welding metal to the end face of said conductor, the inner surface of the upstanding portion of said terminal member and the face of said rail, and preventing escape of the molten welding metal at all sides of said receptacle by means of the ferrous walls of said receptacle to permit the filling of the receptacle with copper in a fused state and at a temperature within said receptacle sufficiently high to fuse the inner side walls of the receptacle and to unite the rail, terminal member and conductor each to the other without permitting escape of the welding metal.

1,682,110. MATCH PACKAGE. HOSEA T. BRADNER, Cleveland, Ohio. Filed Sept. 10, 1925. Serial No. 55,477. 3 Claims. (Cl. 206—29.)

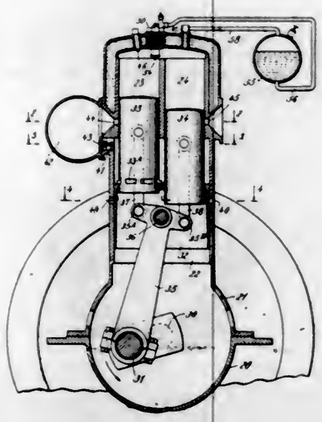


1. In a folding match package, a match enclosing wrapper composed in seriatim of a match retaining flap, an end, a back, a hinge end and a hinged cover, a plurality of severable matches having unseverable butt ends secured between the flap and back and rigidly permanently spacing them apart; and an externally concave fold formed in the end between the flap and the back, provided with abrasive match striking material and maintained substantially of presclected shape by the rigidly spaced flap and back.

1,682,111. INTERNAL-COMBUSTION ENGINE. WILHELM B. BRONANDER, Montclair, N. J. Filed July 13, 1921, Serial No. 484,371. Renewed Jan. 24, 1928. 25 Claims. (Cl. 123—53.)

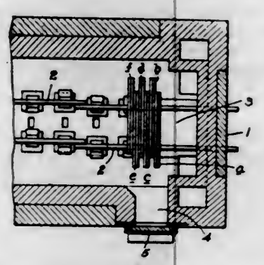
14. An internal combustion engine comprising a pair of intercommunicating cylinders, an inlet port in one

cylinder and an exhaust port in the other cylinder, a port controlling piston in each cylinder, a cylinder surrounding said pistons, a piston therein having openings in



the head thereof receiving the first mentioned pistons, a crank shaft and operative connections between said crank shaft and said pistons.

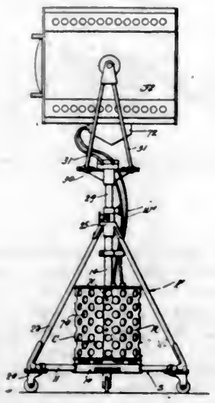
1,682,112. HEATING BAR. FRANK W. BROOKE, Pittsburgh, Pa. Filed May 8, 1926. Serial No. 107,646. 1 Claim. (Cl. 214—152.)



The method of charging and feeding bars in heating furnaces which consists in arranging the bars in contiguous succession transversely of their line of travel with the ends of adjacent bars in transverse stepped relation to one another, pushing the bars through the heating chamber in such stepped relation, and withdrawing the bars from the furnace.

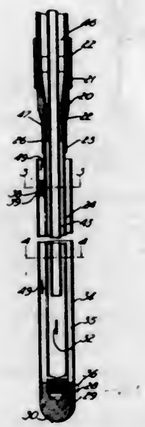
1,682,113. RHEOSTAT. HARRY D. BROWN, Los Angeles, Calif., assignor to Cinema Studios Supply Corporation, Los Angeles, Calif., a Corporation of California. Filed Apr. 8, 1926. Serial No. 100,502. 2 Claims. (Cl. 201—48.)

2. In combination with the supporting frame of a lamp which frame includes a base member having a substantially centrally arranged, vertical post; a rheostat embodying a pair of bus rings spaced apart longitudinally along and insulated from the post, and a plurality of angularly spaced resistance elements arranged about the post, each element embodying a wire-rack having non-conductive characteristics, terminal caps applied to opposite ends of the rack, said caps having conductive characteristics, and resistance wire wound about said rack between and terminally connected to said caps; and detachable means electrically connecting the caps, one to



each of the bus rings, said detachable means also serving as connections through which the racks are supported by the bus rings.

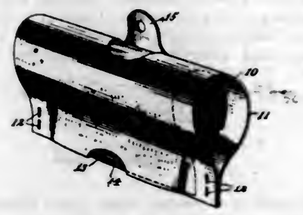
1,682,114. GAS ANCHOR. CHARLES A. CARLSON, Long Beach, Calif. Filed Apr. 28, 1926. Serial No. 105,073. 4 Claims. (Cl. 103—220.)



1. In a gas anchor, the combination of; a tubular connector body adapted to be attached to a supporting member, said connector body providing a gas collecting chamber, there being openings connecting said gas collecting chamber to the exterior; an inner barrel having its upper end secured to the lower end of said connector body, there being openings formed near the lower end of said inner barrel for connecting the exterior of said inner barrel with the interior thereof; a guide plug secured to the lower end of said inner barrel, said guide plug closing the lower end of said inner barrel; an outer barrel secured at its lower end to said guide plug, said outer barrel being concentrical around said inner barrel, there

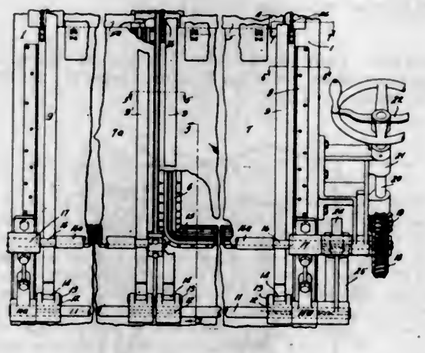
being an annular separating space formed between said inner and said outer barrels, the upper end of said outer barrel terminating below said connector; centralizing fins formed near the upper end of said inner barrel, said centralizing fins being arranged to engage an inner face of said outer barrel; and an eduction tube extended through said member, said connector, into said inner barrel.

1,682,115. TOILET AND TISSUE PAPER PACKAGE. MAX M. COHN, San Francisco, Calif., assignor to National Paper Products Company, San Francisco, Calif., a Corporation of California. Filed Sept. 10, 1925. Serial No. 55,443. 2 Claims. (Cl. 206—57.)



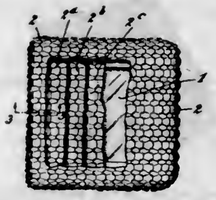
2. A toilet- or tissue-paper package comprising a stack of interleaved sheets folded longitudinally to form a compact bundle having a wedge-shaped conformation in cross-section, and a holder therefor conforming in shape to the bundle and arranged to exert yielding pressure inwardly on the sloping sides of the wedge-shaped bundle, said holder having a narrow slit at its apex through which the sheets may be withdrawn in successive order.

1,682,116. DOOR-CLAMPING MECHANISM. FORREST J. COUCH, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed Nov. 27, 1925. Serial No. 71,778. 10 Claims. (Cl. 220—55.)



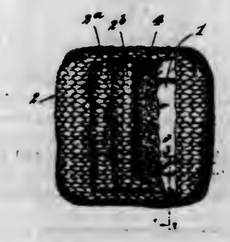
1. In a washing or like machine, a stationary cylindrical tub provided with an opening, a sliding door for said opening, and flexible clamping means engaging the side portions of said door, throughout the entire extent of the door sides for sealing the door against the tub at the sides of said opening.

1,682,117. SOAPING AND CLEANING DEVICE. CROSBY FIELD, Brooklyn, N. Y., assignor to Brillo Manufacturing Company, Inc., a Corporation of New York. Filed Oct. 8, 1925. Serial No. 61,186. 2 Claims. (Cl. 15—122.)



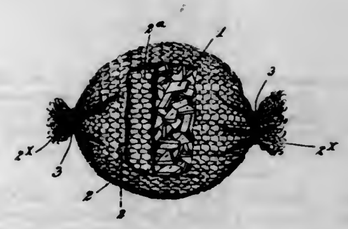
1. A cleaning device, comprising an open ended tube of metal fabric, a solid backing therein, the ends of said tube being folded over said backing toward each other, and means fastening the ends to each other to secure the solid backing therein.

1,682,118. CLEANING DEVICE. CROSBY FIELD, Brooklyn, N. Y., assignor to Brillo Manufacturing Company, Inc., a Corporation of New York. Filed Oct. 8, 1925. Serial No. 61,187. 6 Claims. (Cl. 15—122.)



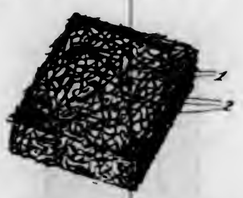
1. A cleaning pad, including a rectangular cake of soap having metal cushioning means on one face thereof the aforesaid parts being enclosed in a wrapper formed of knitted metallic ribbon.

1,682,119. CLEANING DEVICE. CROSBY FIELD, Brooklyn, N. Y., assignor to Brillo Manufacturing Company, Inc., a Corporation of New York. Filed Oct. 8, 1925. Serial No. 61,188. 2 Claims. (Cl. 15—208.)



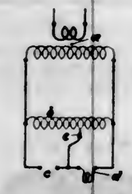
1. A cleaning device, comprising an open ended tube of abrasive metal fabric, a detergent therein, and means closing the open ends of said tube to secure the detergent within the tube, said means being spaced from said ends to provide tufts of abrasive metal fabric.

1,682,120. SCRUBBER SOAP. CROSBY FIELD, Brooklyn, N. Y., assignor to Brillo Manufacturing Company, Inc., a Corporation of New York. Filed Oct. 8, 1925. Serial No. 61,189. 3 Claims. (Cl. 87—23.)



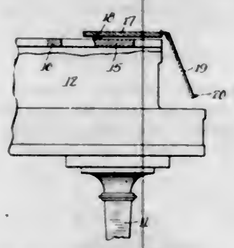
2. An article of manufacture, comprising a cake of soap having embedded therein a mass of thin, flexible ribbons of relatively soft tinsel-like metal.

1,682,121. HIGH-FREQUENCY OSCILLATION SYSTEM FOR MEDICAL APPARATUS. ARTHUR GEBBERT, Erlangen, Germany. Filed Nov. 9, 1926, Serial No. 147,365, and in Germany Dec. 16, 1925. 3 Claims. (Cl. 174—177.)



1. In an electrical system for the control of high frequency oscillations especially used in medical apparatus, the combination of a high frequency transformer, a variable self-induction connected thereto and including a regulating element, and a loading resistance and electrodes in circuit with said induction, said regulating element being connected to the circuit between said resistance and electrodes.

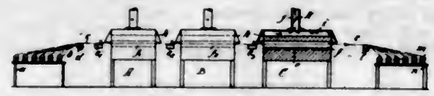
1,682,122. MUSIC RACK. IRVING W. GIESE, Chicago, Ill. Filed Aug. 16, 1926. Serial No. 129,381. 12 Claims. (Cl. 84—180.)



8. The combination with a music rack, of an auxiliary music rack, and a double hinge connecting said racks, said hinge comprising three members linked together, and means for limiting the movement of each end member of the hinge relative to the intermediate member of the hinge.

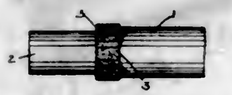
1,682,123. MEANS FOR PRODUCING VARNISHED WIRES. FERDINAND HANFF, Berlin-Charlottenburg, Germany, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Nov. 23, 1925, Serial No. 70,879, and in Germany Dec. 1, 1924. 3 Claims. (Cl. 91—55.)

3. Machine for varnishing wires, having a plurality of separate baking ovens containing baking ducts, and varnishing devices alternately arranged with said ducts in a straight line, the length of the individual ducts increasing in the direction of the wire travel, successive baking ducts



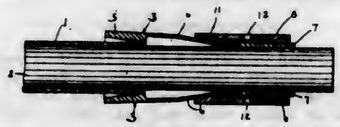
being disposed in separate baking ovens and means on said ovens for conducting the hot vapors issuing from said ducts around the outside thereof.

1,682,124. METHOD OF MANUFACTURING RUBBER TUBES. DANIEL E. HENNESSY, Akron, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Original application filed Apr. 28, 1922, Serial No. 557,206. Divided and this application filed June 1, 1926. Serial No. 112,848. 4 Claims. (Cl. 18—53.)



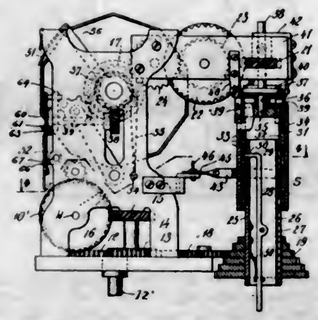
1. The method of curing rubber tubes upon a mandrel which comprises interposing a film of cement between the ends of the tube and the mandrel and vulcanizing the tube.

1,682,125. METHOD OF MAKING RUBBER TUBES. DANIEL E. HENNESSY, Akron, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Original application filed Apr. 28, 1922, Serial No. 557,206. Divided and this application filed June 1, 1926. Serial No. 112,849. 5 Claims. (Cl. 18—53.)



1. The method of treating rubber tubes upon a mandrel preparatory to vulcanization, which comprises heating the end portions of the tube to soften the rubber and clamping said portions to the mandrel.

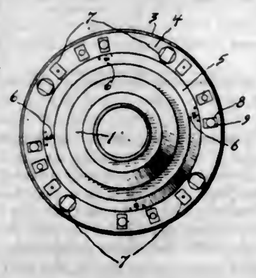
1,682,126. FARE REGISTER. WILLIAM M. HOFFMAN, Roxbury, Mass. Filed Jan. 31, 1919. Serial No. 274,164. 19 Claims. (Cl. 235—44.)



1. In a fare register, a passenger indicator and a money indicator actuated from a common source and means including a change speed mechanism that can be set for

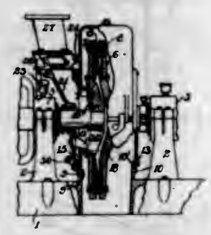
different speeds for actuating said indicators at different predetermined, relative speeds, said change speed mechanism having gear wheels of different sizes to mesh with a common gear wheel.

1,682,127. ADJUSTABLE PHOTOGRAPHIC VIGNETTER. ALBERT S. HOWELL, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a Corporation of Illinois. Filed July 6, 1927. Serial No. 203,788. 7 Claims. (Cl. 95—65.)



1. In an adjustable photographic vignetter the combination with two members one of which is movable with respect to the other in correspondence with adjustment of the vignetter, of index mark and scale means associated with said members and cooperating with said relative movement thereof to indicate predetermined adjustments of the vignetter and including graphic representations of the photographic field of a photographic lens, with which the vignetter is used, resulting from respective adjustments of the vignetter.

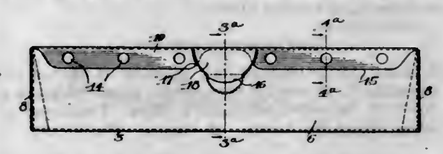
1,682,128. ATTRITION MILL. RICHARD S. IGLEHART, Springfield, Ohio, assignor to The Bauer Brothers Company, Springfield, Ohio, a Corporation of Ohio. Filed Mar. 23, 1927. Serial No. 177,755. 10 Claims. (Cl. 83—8.)



1. In an attrition mill, a rotatable grinding head, a drive shaft for said head, a rotatable ring secured to said head, a second stationary ring co-operating with said movable ring, a spout leading to the center of said head, said spout consisting in part of a removable portion divided vertically through which said shaft passes, the sections of said removable portion being extended to a point above the highest point of said rings so as to expose the entire rings when said sections are removed.

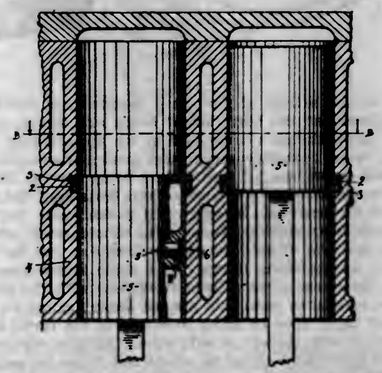
1,682,129. CONTAINER CONSTRUCTION. HARRY A. INMAN, Newark, N. Y. Filed May 16, 1925. Serial No. 30,851. 2 Claims. (Cl. 229—43.)

1. In an article of the class described, a box made from a folded blank comprising a bottom, side and end walls and a folding cover attached at one edge to one of said side walls and having at its other edge a downturned flap adapted to be inserted inside the other side wall, the upper portion of said flap and first mentioned side wall being



provided with ventilating openings and said other side wall being cut away at its upper portion opposite said flap openings.

1,682,130. PACKING RING. THEODORE JOHNSTON, Topeka, Kans. Filed Jan. 7, 1926. Serial No. 79,848. 1 Claim. (Cl. 74—108.)



In a packing ring, the combination of a cylinder being uniform in diameter longitudinally, and a piston having an uninterrupted periphery to slidably engage in said cylinder, a ring stationarily positioned and engaging in an annular groove in the cylinder so that the ends of the piston will enter the ring in its reciprocations so that the wear imposed on the piston will be uniformly distributed its entire length, the ring functioning as sealing means for the peripheral engagement of the piston and cylinder.

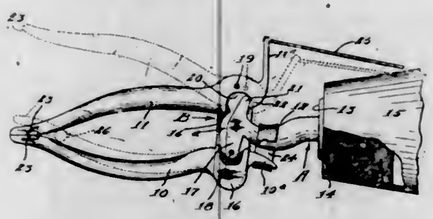
1,682,131. GRIDWORK FOR AIR HEATERS. HUGO KLEIN and PAUL KUHN, Niederscheiden-Sieg, Germany. Filed July 7, 1926, Serial No. 114,284, and in Germany Apr. 3, 1926. 3 Claims. (Cl. 263—19.)



1. In an air heater for blast furnaces, a body divided into zones all of which are in superposed relation, and a gridwork in each zone and including heat absorbing plates,

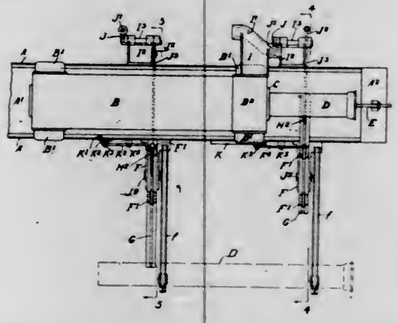
the plates of the gridwork in the zone of the highest temperature having large cross sections and small surfaces, and those in zones of lower temperatures having smaller cross sections and larger surfaces.

1,682,132. ARTIFICIAL LIMB. JOSEPH H. KOSEK and RAYMOND B. TRAUTMAN, Minneapolis, Minn., assignors to David W. Dorrance, Minneapolis, Minn. Filed Sept. 10, 1925. Serial No. 55,503. 12 Claims. (Cl. 3—12.)



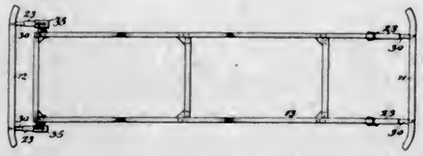
1. In an article of the class described, a shank for attachment at the butt thereof to an arm stump socket, said shank having a cross-head at its tip, a frame, oppositely bowed complementary fingers carried at opposite ends of said frame, one of said fingers being pivoted thereon and co-operating with one end of said cross-head, the other end of the cross-head being pivoted to the frame, the joint between cross-head and frame being substantially removed from the axis of said shank, tip members, one for each finger, said members meeting in a plane intersecting said axis, the co-operation of said cross-head with the pivoted finger serving to close said pivoted finger against its companion finger upon swinging movement of the frame in one direction with respect to said shank, yielding contracting means operating between the shank and frame for swinging the latter on the former in said finger closing direction, and a lever on said pivoted finger for imparting an opening swing thereto and for concurrently imparting a compensating finger freeing swing of the frame on said shank.

1,682,133. AUTOMATIC SKID. JAMES B. LADD, Ardmore, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed July 14, 1926. Serial No. 122,490. 5 Claims. (Cl. 22—65.)



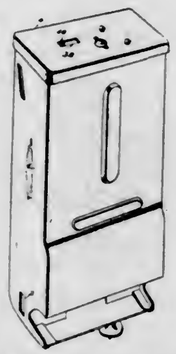
1. In combination with a centrifugal pipe casting machine having a longitudinally reciprocating mold carrying carrage, approximately horizontal pipe receiving skids longitudinally movable in a direction transverse to the line of movement of the carriage to and from a pipe receiving position and a retracted position in which they will be outside of the path of the carriage and means actuated by the carriage for shifting the skids to pipe receiving position as the carriage moves away from their path of movement and retracting them as the carriage moves in a reverse direction.

1,682,134. CIRCUIT CLOSER FOR COLLISION-INDICATING DEVICES. LOUIS LIFSCHUTZ, Buffalo, N. Y. Filed Apr. 21, 1923. Serial No. 633,711. 2 Claims. (Cl. 200—52.)



1. A collision indicating device for an automobile having a chassis, and a bumper movably mounted on said body, comprising a rear tubular fixed body adapted to be mounted on the chassis and provided with a rear head, a fixed electric contact mounted on said rear head, but insulated therefrom, a movable contact guided in said tubular body and adapted to move into and out of engagement with said fixed contact, a light spring arranged within said body and bearing at its opposite ends against the front side of said rear head and the rear side of said movable contact, a movable plunger guided lengthwise in the front part of said body and adapted to be moved rearwardly by said bumper, and a heavy spring arranged in said tubular body and interposed between said movable contact and said plunger.

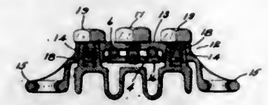
1,682,135. MOUNTABLE AND DEMOUNTABLE CASING FOR COIN-CONTROLLED DEVICES. JAMES H. MANN, Jr., Monteagle, Tenn., assignor to Southwestern Sales Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 27, 1924. Serial No. 695,483. 6 Claims. (Cl. 70—14.)



1. In combination with a casing having a locking lug thereon, a cover plate comprising a bolt plate movably arranged thereon adapted for engagement with said locking lug, and a lock on said cover having its locking bolt when in locked position in the path of the normal line of action of said movable bolt plate, to lock the latter in position, and when said locking bolt is withdrawn leaving said bolt plate free to move in its normal path.

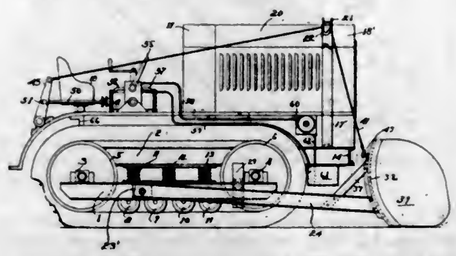
1,682,136. TROLLEY FROG. SAMUEL S. MATTHES, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Oct. 12, 1927. Serial No. 225,715. 12 Claims. (Cl. 191—38.)

1. A trolley frog comprising a body member having a plurality of channeled members each to receive a trolley wire, a support member secured to the body member against relative longitudinal and lateral movement, means on the support member to receive the trolley wires and hold them against movement relative to the support member and a rotatable wedge pivotally secured to each channeled mem-



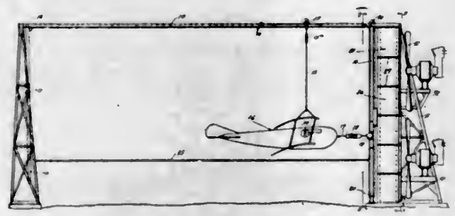
ber to engage and clamp the trolley wires in fixed relation to the channeled members but permitting the removal of the body and channeled members at will without disturbing the connection of the wires at the support member.

1,682,137. TRACTOR SCRAPER. WESLEY KENNETH MCMILLAN, San Francisco, Calif. Filed Feb. 9, 1927. Serial No. 166,824. 1 Claim. (Cl. 37—180.)



A scraper of the class described comprising an endless tread tractor having a supporting frame, a forwardly extending arm pivoted on each side of said frame, a scraper having a curved transverse back, plates on each side of said back, spaced connectors on said back, flexible supports extending from said connectors to pivoted arms, a hydraulic cylinder having a piston adapted to operate said arms, means to supply power to said cylinder, and means to admit said power to the cylinder to move said piston in either direction or to hold it in a certain position.

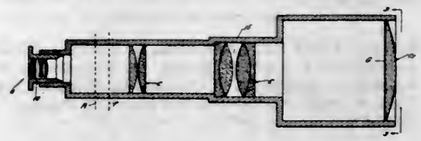
1,682,138. AIRPLANE LABORATORY. ALBERTA A. MERRILL, Pasadena, Calif. Filed Mar. 25, 1925. Serial No. 18,254. 10 Claims. (Cl. 73—51.)



1. In apparatus of the character described, the combination of an elongated overhead support, a carriage movable over the support longitudinally, a cable suspended from the carriage and adapted for attachment to an airplane, means for delivering an air blast, and means adapted to direct the air blast beneath said support towards the airplane.

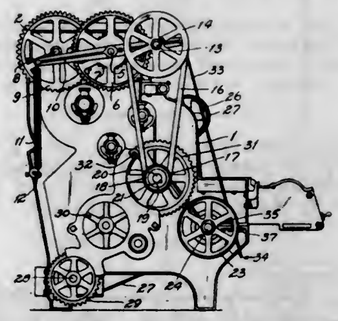
1,682,139. VIEW FINDER. GEORGE A. MITCHELL, Los Angeles, Calif., assignor to Mitchell Camera Corporation, a Corporation of California. Filed May 22, 1926. Serial No. 110,865. 4 Claims. (Cl. 88—1.5.)

1. In an optical instrument of the character described, an objective lens adapted to throw a real image in a given focal plane, a collective lens spaced behind said plane and at a distance less than its focal length from said plane, an eye lens arranged behind the collective lens adapted to view



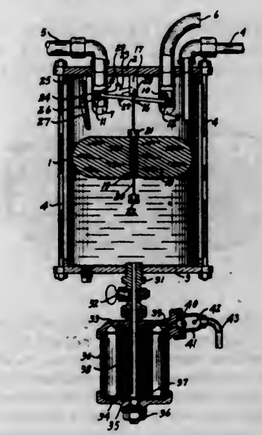
said image through said collective lens and to throw another real image to another fixed focal plane, and a ground glass at said last mentioned focal plane.

1,682,140. DRIVING MECHANISM. JOHN E. MITCHELL and ORVILLE MITCHELL, St. Louis, Mo. Filed Oct. 23, 1926. Serial No. 143,550. 9 Claims. (Cl. 192—125.)



3. In combination, a pair of rotary members mounted in geared relation, a driving gear secured on the shaft of one of said members, an arm pivotally mounted intermediate its ends in line with the axis of said driving gear, a pinion for driving said gear mounted toward one end of said arm, a pulley fast with said pinion for driving the same, a belt drive for said pulley, and means for exerting yielding pressure on the other end of said arm for holding the belt of said drive normally under tension.

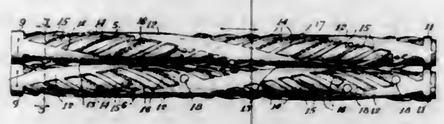
1,682,141. VACUUM TANK. CHARLES S. NELSON, Sandpoint, Idaho. Filed June 4, 1927. Serial No. 196,591. 2 Claims. (Cl. 103—236.)



1. The combination with a vacuum tank and means for automatically maintaining the liquid fuel level therein, of a filtering vessel and an outlet pipe from the tank to said

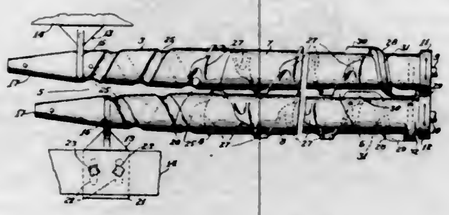
vessel, a control valve in the outlet pipe, a filtering medium within the vessel, connections from said vessel to a carbureter, and a check valve in the connection to the carbureter.

1,682,142. CORN-HUSKING ROLLS. LOUIS A. PARADISE and WILBUR J. COULTAS, Moline, Ill., assignors to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed June 8, 1927. Serial No. 197,309. 10 Claims. (Cl. 130—5.)



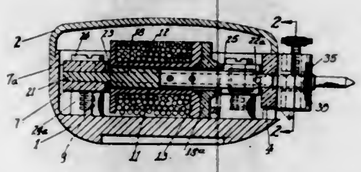
1. A pair of cooperating corn husking rolls, both of which are provided with relatively long ribs coacting between the rolls and spiraled about the surfaces of the rolls in directions tending to retard the travel of the ears along said rolls.

1,682,143. CORN-PICKING ROLLS. LOUIS A. PARADISE, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed June 8, 1927. Serial No. 197,310. 12 Claims. (Cl. 130—5.)



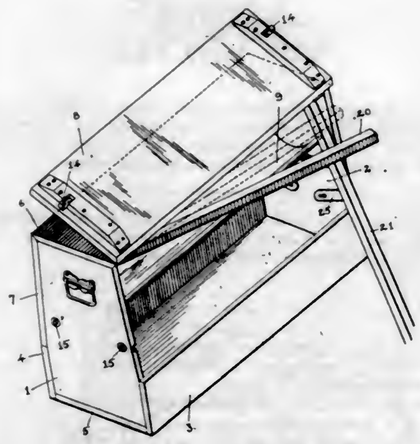
1. A pair of cooperating corn snapping rolls having their axes substantially parallel and characterized by a trash discharge opening between the rolls which is wider at the rear ends of the rolls than at the front ends thereof.

1,682,144. ELECTRICAL REPRODUCER. CHARLES W. PETERSON, Detroit, Mich. Filed May 24, 1927. Serial No. 193,935. 11 Claims. (Cl. 179—100.1.)



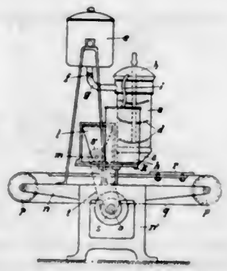
7. In an electrical reproducer, the combination of a pair of permanent magnets, pole shoes adjustably retained between them, an armature element passing between the pole shoes, and set between said two magnets at the neutral point thereof, a coil about the armature element, and stylus energized means for vibrating the armature, said armature element comprising a resilient paramagnetic strip, and a holder therefor, and said resilient strip having deadening means applied thereto, both above and below the point where the same passes between the pole shoes.

1,682,145. CONVERTIBLE AUTOMOBILE TABLE AND CABINET. NORMAN A. REINHARD, Rochester, N. Y. Filed June 16, 1926. Serial No. 116,445. 2 Claims. (Cl. 190—12.)



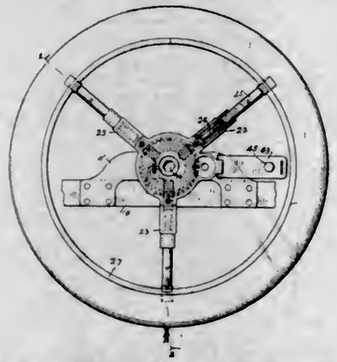
1. A combined cabinet and table having stationary ends and swinging sides, two pairs of hinges each comprising a pair of leaves of which one leaf is attached to the inside of said ends, legs pivoted to the other of said leaves of said hinges to enable said legs to swing up and down on said ends as well as swing in and out of said cabinet at right angles to the swinging motion of said hinges, and means for locking said legs in a parallel plane against the ends to which they are hinged.

1,682,146. DEVICE FOR PRODUCING CONFECTIONERY CONTAINING AN AROMATIC LIQUID. CARL RIEBE, Dresden-Neustadt, Germany. Filed Oct. 4, 1926, Serial No. 139,514, and in Germany Dec. 15, 1924. 1 Claim. (Cl. 107—4.)



A device for producing confectionery containing aromatic liquids comprising, in combination, a mixing vessel with superimposed boiler, a condenser arranged near the said mixing vessel and being connected with same, the said mixing vessel being provided at its lower end with a discharge orifice for the mixture, a powder container arranged near the mixing vessel, and a conveyor travelling below the mixing vessel and the powder container for receiving the molds.

1,682,147. SPARE-TIRE CARRIER AND RIM SPREADER. CHARLES P. RIEGLE, Milwaukee, Wis. Filed Sept. 28, 1923. Serial No. 665,283. 4 Claims. (Cl. 224—29.)



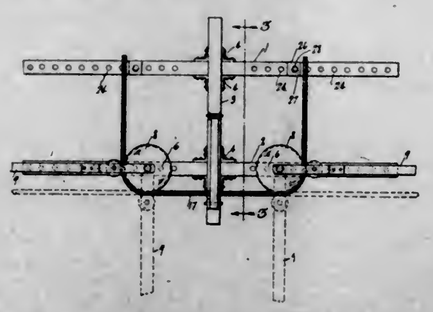
1. A spare tire carrier adapted to be mounted on the cross bar of an automobile frame, comprising a housing in which is journalled a gear having a worm on one face, radially movable connecting rods engaging the said worm gear at one end, and the tire rim at the other, the said gear being provided peripherally with gear teeth for rotating the worm at one speed, and at its axis with a wrench receiving socket for rotating at a different speed.

1,682,148. GAS BURNER. FRANK V. RISINGER, Lakewood, Ohio. Filed Mar. 17, 1924. Serial No. 699,896. 23 Claims. (Cl. 158—104.)



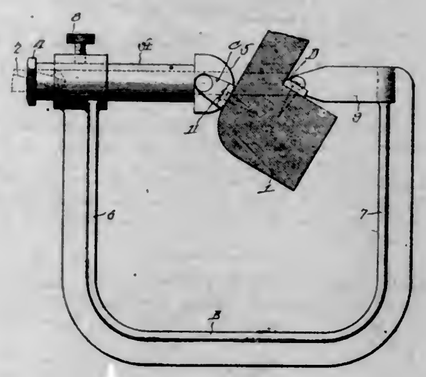
1. In a burner of the class described, a burner body having an elongated outlet forming a burner opening, and a grid comprising a length of metal bent and rebent to form the grid which is seated in said burner opening, the bent and rebent parts of the grid having contacting portions to brace the said parts.

1,682,149. PIPE-BENDING MACHINE. WILLIAM E. ROBERTSON, Berkeley, Calif. Filed July 24, 1926. Serial No. 124,699. 6 Claims. (Cl. 153—46.)



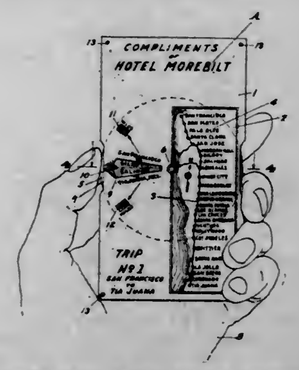
1. In a pipe bending device of the character described, two parallel bars, a cross-bar, means for clamping a pipe to the cross-bar so as to run parallel to the other bars, two pulleys adjustably pivoted on one of the parallel bars on opposite sides of the cross-bar so as to accommodate the pipe in grooves thereof, means for bending the pipe around the pulleys and stops adjustable in the second parallel bar for limiting the turning motion of the pipe.

1,682,150. DRILL-GUIDING JIG. CLIFFORD SKLAREK, Chicago, Ill., assignor to International Spotlight Corporation, a Corporation of Illinois. Filed Dec. 31, 1923. Serial No. 683,543. 8 Claims. (Cl. 77—62.)



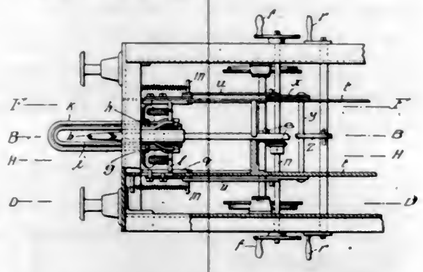
1. In a jig for guiding a drilling tool, the combination with a carrier yoke; of a drilling tool receiving and guiding member adjustably carried thereon and adapted to engage one face of the work; means swiveled on said yoke for detachable connection to the other face of the work; and means swiveled on the adjacent end of said guiding member for attachment to the first-mentioned face of the work.

1,682,151. MILEAGE ROUTE CHART. LLOYD A. T. SOLDANE, Grenada, Calif. Filed Oct. 6, 1925. Serial No. 60,845. 2 Claims. (Cl. 40—70.)



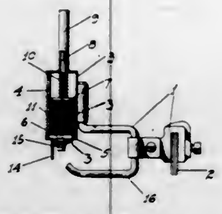
1. In a route chart a dial bearing consecutively the names of cities along the route, numerals indicating the miles between adjacent cities, and numerals indicating miles from the various cities to a terminal point of the route, means covering said dial adapted for successively exposing to view the names of two adjacent cities only and the indicated mileage separating them and the indicating mileage from one of the cities to the route terminal.

1,682,152. AUTOMATIC RAILWAY COUPLING. REINHOLD SZELINSKI, Rietberg, Germany. Filed June 20, 1927, Serial No. 200,255, and in Germany Dec. 7, 1926. 3 Claims. (Cl. 213—83.)



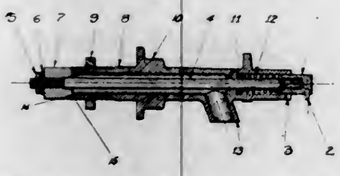
1. In an automatic railway coupling, the combination of a draw-bar, a heart-shaped double coupling hook, a slide on said draw-bar adapted to be adjusted thereon in longitudinal direction, pivotal coupling eyes on said slide having their ends extended beyond their pivots, and coil springs attached to said latter extensions and acting to keep said eyes in closed position.

1,682,153. MEANS FOR IDENTIFICATION. LESLIE J. TRACEY and HAROLD H. QUAIL, Stockton, Calif. Filed Nov. 12, 1927. Serial No. 232,882. 5 Claims. (Cl. 116—32.)



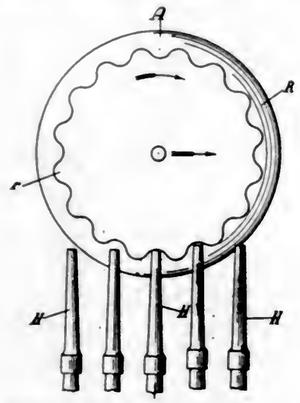
1. An attachment for a motor vehicle including a member arranged to be mounted on the vehicle in a position to be engaged by an obstruction in the path of movement of the vehicle, a plurality of identification means, a container for said means arranged to be mounted on the vehicle, and rearwardly movable means supporting said member and normally holding the identification means in the container.

1,682,154. PUSH-BUTTON FAUCET. ALANSON CLARK VAN HOUSE, Oakland, Calif. Filed Aug. 1, 1921. Serial No. 489,013. 1 Claim. (Cl. 251—137.)



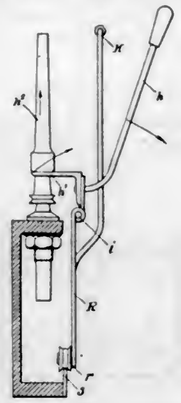
A device of the type described comprising a tubular-shaped casting, a partition disposed in the bore of said casting and having a guide opening therein, a valve guide disposed in said bore and being slidably received in said opening, a push button adapted to be slidably received in said bore, to be guided thereby, and being threaded onto said valve guide, a spring disposed between said partition and said button, said casting having a slot therein, a stop pin carried by said push button adapted to engage in said slot for limiting the movement of said valve guide and for preventing rotation of said guide with respect to said casting, said casting having an outlet pipe and having an inlet opening, and a concave seat surrounding said opening, a valve secured to said valve guide and having a convex portion adapted to be received in the concave seat of said casting, said valve being entirely exposed, and means for securing said valve to said valve guide.

1,682,155. WHEEL FOR PRESSING THE EMPTY TUBES UPON THE SPINDLES OF SPINNING AND DOUBLING FRAMES. ERNST TOENNIESSEN, Tubingen, Germany. Filed Jan. 8, 1927, Serial No. 159,978, and in Germany Jan. 11, 1926. 2 Claims. (Cl. 118—16.)



1. In a device for pressing empty tubes upon the spindles of spinning- and doubling frames, comprising in combination a wheel with a continuous circular running surface of rounded-off teeth, means fixed at the centre of the wheel for handling the same, the intervals of said teeth being so situated that they accurately fit the several tubes the one after the other when the wheel is rolled over the row of tubes.

1,682,156. PRESSING-OFF DEVICE FOR TUBES AND YARN BODIES OF SPINNING AND DOUBLING FRAMES. ERNST TOENNIESSEN, Tubingen, Germany. Filed Jan. 8, 1927, Serial No. 159,979, and in Germany Jan. 11, 1926. 2 Claims. (Cl. 118—16.)

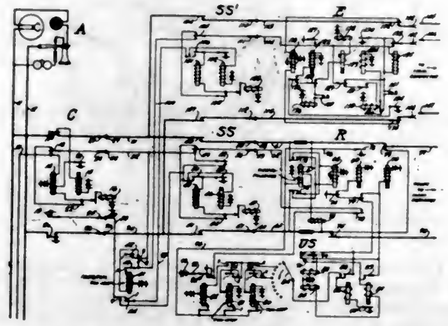


1. In a pressing-off device for spinning- and doubling frames, a spindle bearing plate, a guide rail fixed to said spindle bearing plate in combination with a rigid frame with means for rolling the frame on the guide rail, means for oscillating the frame on the guide rail, a pressing-off comb pivotally mounted on said frame and means for oscillating said pressing-off comb on the frame, substantially as described and shown and for the purpose set forth.

1,682,157. METHOD OF AND MEANS FOR POLISHING METAL SURFACES. WILLIAM L. WEBER, Chicago, Ill. Filed Feb. 23, 1927. Serial No. 170,411. 6 Claims. (Cl. 51—280.)

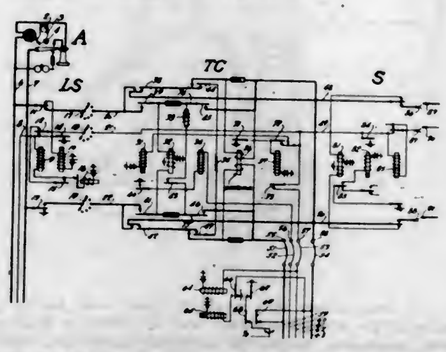
1. The method of polishing and hardening the contact surface of a commutator which consists in causing the surface to be treated to travel at a high speed, and applying against said traveling surface a composition of sulphur and an abrasive material under sufficient pressure and heat to polish said surface and cause the sulphur of said composition to unite with the metal of said surface whereby a hardened exterior is formed on said surface.

1,682,158. MULTIOFFICE TELEPHONE SYSTEM. BERNARD D. WILLIS, Oak Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Sept. 24, 1923, Serial No. 664,374. Renewed July 23, 1927. 13 Claims. (Cl. 179—18.)



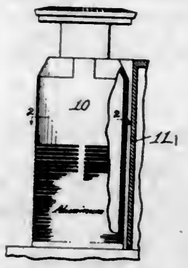
1. In a telephone system, a trunk, a first switch and a second switch individual to said trunk, two groups of trunks accessible to said switches, respectively, means responsive to a call over said trunk for operating said first switch to select a trunk in the associated group, and means for subsequently releasing said first switch and for causing said second switch to select an idle trunk in the associated group, the last named means being controlled from the trunk selected by said first switch, said control being exercised or not according to the called number.

1,682,159. MULTIOFFICE TELEPHONE SYSTEM. BERNARD D. WILLIS, Oak Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed July 24, 1925. Serial No. 45,731. 15 Claims. (Cl. 179—27.)



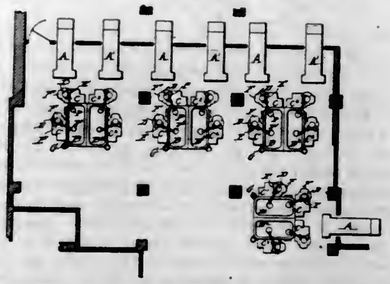
12. In an automatic telephone system, in combination, a pay station line, means operated responsive to the initiation of a call for extending the line to an automatic switch, means for extending a branch from the switch to an operator's switch-board, means whereby the operator may further extend the line either over the automatic switch or by way of the switchboard at will, and means for indicating to the operator that a coin has been deposited.

1,682,160. CORE FOR STEREOTYPE-PLATE-CASTING BOXES. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Dec. 26, 1922, Serial No. 609,046. Renewed Dec. 27, 1926. 4 Claims. (Cl. 22—4.)



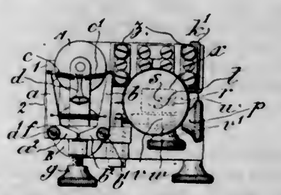
1. As an article of manufacture, an aluminum stereotype plate casting core for increasing the rapidity of cooling the casting.

1,682,161. STEREOTYPING PLANT. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Oct. 27, 1925, Serial No. 65,209. Renewed Jan. 5, 1928. 11 Claims. (Cl. 22—64.)



1. In a stereotype foundry plant, the combination with a melting furnace having two pumps therein for delivering metal, of a casting machine located at one end thereof, and a casting machine at one side thereof, said melting furnace being left free at the back so that another furnace and its casting machines can be placed back of it.

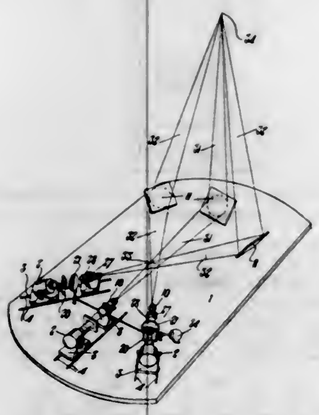
1,682,162. TELEGRAPHIC RECEIVING APPARATUS. JAMES ROLAND WORTHINGTON, East Croydon, England, assignor to said Worthington and Creed & Company Limited, Croydon, England. Filed Nov. 17, 1923, Serial No. 675,333, and in Great Britain Nov. 27, 1922. 12 Claims. (Cl. 178—91.)



1. In telegraphic receiving apparatus of the kind herein referred to, the combination with the polarized armature of such apparatus, of springs acting in opposition upon said

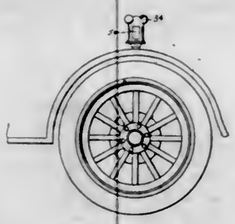
armature to hold it in a definite position, separate movable anchorage points for the extremities of said opposed springs remote from the armature and adjusting means, operable by interdependent simultaneous separation or approximation of said movable anchorage points to vary the action of said opposed springs on said armature.

1,682,163. OPTICAL SIGN PROJECTOR. WILLIAM ARTHUR ALDER, Kennington, London, England, assignor, by mesne assignments, to International Skywriters Limited, Toronto, Canada, a Company of Ontario. Filed Dec. 23, 1926. Serial No. 156,646. 10 Claims. (Cl. 88—24.)



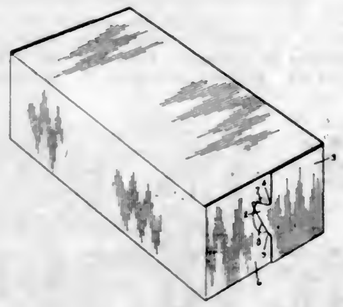
1. Sign projecting apparatus comprising an optical projector, a transparent sign and an objective lens located so that a beam of light will be projected through them and a reflector to direct the picture beam up toward the sky, a number of additional projectors, rotatable colour filters and objective lenses mounted in front of the projectors, means for driving the colour filters synchronously so that the varying colours of each beam will alternate with the colours of the other beams, each projector being arranged to project its beams of light at an angle to and across the picture beam, and a number of reflectors to deflect the additional beams upwardly so as to meet and register with the picture beam at a common position at which the picture will become visible.

1,682,164. COMBINATION LIGHT. WILLIAM G. BERRY, JOSEPH KLEIN, and CHARLES SCHMIDT, Cleveland, Ohio. Filed Apr. 2, 1926. Serial No. 99,269. 12 Claims. (Cl. 240—8.2.)



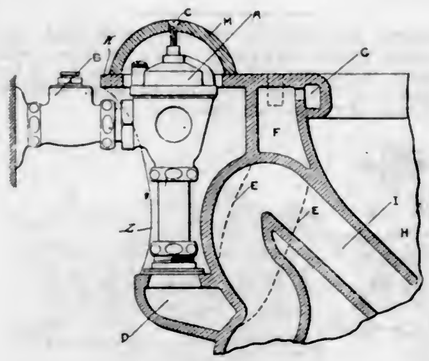
4. An article of the character described having in combination a base, a lamp supported on said base, an ornamental casing rotatably supported on said base, means for rotating said casing, and electro-magnetic means for stopping the rotation of said casing at a predetermined point.

1,682,165. LOCK FOR FOLDING BOXES. LOUIS BOEPPLER, Oakland, Calif., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware. Filed June 12, 1924. Serial No. 719,474. 4 Claims. (Cl. 229—35.)



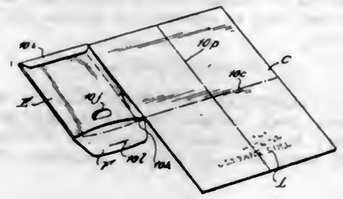
1. A lock for a paper box comprising a flap terminating in a tongue having a widened head portion, and a complementary flap having an angular slit, the distance from the apex of the angle to one end of the slit being greater than the width of the head and the ends of the slit being spaced apart a distance less than the width of the head.

1,682,166. WATER-CLOSET. RAYMOND E. CRANE and DAVID E. GULICK, Kittanning, Pa. Filed Apr. 28, 1927. Serial No. 187,303. 8 Claims. (Cl. 4—70.)



1. A combination with a water closet bowl having a recess in the rear of sufficient size to receive a flushing valve mechanism, means for supplying water to a valve mechanism located in said recess and an outlet leading upwardly from said recess to a flush rim for flushing said closet bowl and of a china shelf above said recess through which a portion of said valve projects, substantially as described.

1,682,167. ADVERTISEMENT CARRIER. ABRAHAM DEUTSCHMEISTER, Bronx, N. Y. Filed Apr. 5, 1927. Serial No. 181,069. 6 Claims. (Cl. 229—68.)



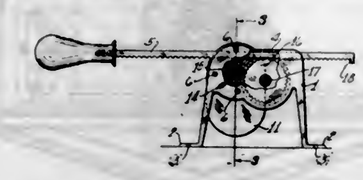
1. A device of the character described comprising an envelope having an opening to receive a filler, said envelope having a closure flap and a legend bearing extension of greater length than said envelope in the direction beyond said opening when unfolded, said extension being foldable to form a structure of multiple thickness overlying the envelope flap.

1,682,168. RECIPROCATING MOP. WALTER P. DORL, Detroit, Mich. Filed May 12, 1927. Serial No. 190,742. 8 Claims. (Cl. 15—98.)



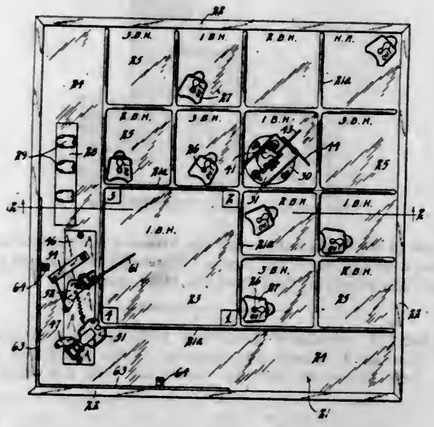
1. In a reciprocating mop, the combination of a carriage movable back and forth, stops at the limits of travel of said carriage, shafts revolvable on said carriage, arms on said shafts adapted to carry mops and rotatable with said shafts, and means cooperating with said stops for imparting rotary movement to said shafts as said carriage approaches either end of its travel.

1,682,169. PENCIL SHARPENER. BRUCE DOUGAN, St. Louis, Mo. Filed June 21, 1926. Serial No. 117,411. 5 Claims. (Cl. 120—94.)



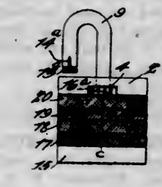
1. In a pencil sharpener, in combination, a supporting frame having a slide-way, a plurality of cooperating spiral cutters mounted for rotation on the frame, and means for effecting rotary movement in unison of the cutters, said means including a gear mounted for rotation on the frame and having driving connection with the cutters, and a rack-bar arranged for reciprocating movement in one direction in said slide-way and having meshing engagement with said gear to operate said cutters to sharpen a pencil inserted therebetween, and for reciprocation in the opposite direction to reverse the rotation of the spiral cutters to release or expel the pencil therefrom.

1,682,170. BALL GAME APPARATUS. JOHN A. EKELUND, Minneapolis, Minn. Filed June 10, 1927. Serial No. 197,859. 18 Claims. (Cl. 273—89.)



1. In a toy baseball game, a detachable batter comprising a pair of clamp arms pivoted together and a spring normally forcing said clamp arms towards each other to engage a fixed support, whereby said clamp arms can be detachably engaged from the support, and a bat carried by said clamp arms.

1,682,171. PERMUTATION LOCK. ALEXANDER ENOS, Seattle, Wash. Filed Dec. 23, 1926. Serial No. 156,681. 10 Claims. (Cl. 70—113.)

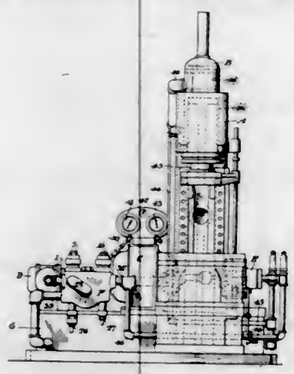


1. In a permutation lock, a shackle member, a main body in which the shackle member is slidably mounted, a plurality of disks for controlling movement of the shackle member, each of the disks being formed with recesses adapted, when the disks are aligned, to provide a passage for the movement of the shackle member, and guard rings carried by certain of the disks to determine which of the recesses of said disks shall be open to the passage of the shackle member.

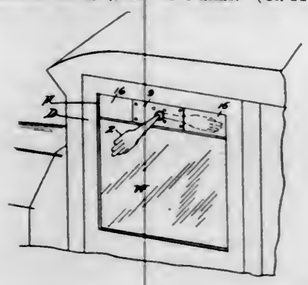
1,682,172. AUTOMATIC HYDRAULIC PRESS. WALTER ERNST, Mount Gilead, Ohio, assignor to Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Filed Sept. 8, 1927. Serial No. 218,189. 7 Claims. (Cl. 138—17.)

1. In an automatic hydraulic press mechanism having a main cylinder, means for supplying fluid under low pres-

sure thereto, and means for supplying fluid under high pressure thereto, a by-pass mechanism which compriaes a valve and means for opening the same at a predetermined pressure to allow the fluid under low pressure to circulate idly, and a second valve and means for opening the same to permit the return of fluid from the main cylinder.

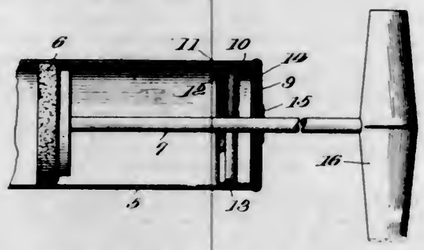


1,682,173. WINDOW-MOUNTED AUTOMOBILE SIGNAL. SAMUEL A. GAEDE, Los Angeles, Calif. Filed Feb. 29, 1928. Serial No. 257,961. 10 Claims. (Cl. 116—52.)



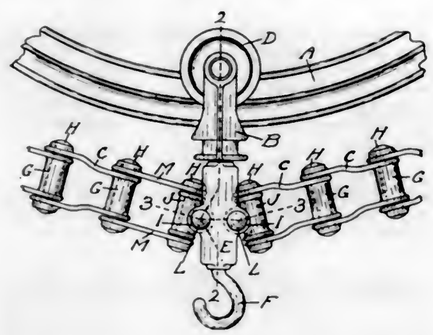
1. A manual automobile signal device including a ball and socket mechanism and a mount therefor, a signal hand secured to one side of the ball and an operating lever secured to the opposite side of the ball, and guideways for the lever whereby the said hand is guided to one of a series of selective effective signalling positions.

1,682,174. AIR PUMP FOR SPRAYING DEVICES. LAWRENCE V. HARE, Jersey City, N. J., assignor to Continental Can Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Oct. 13, 1926. Serial No. 141,361. 4 Claims. (Cl. 230—238.)



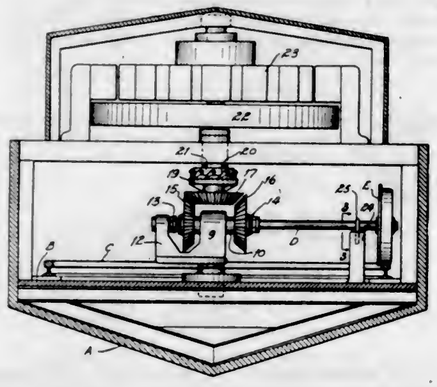
1. An air pump for a spraying device comprising a cylinder, a piston in said cylinder, a piston rod connected to said piston and a head for closing said cylinder, said cylinder being formed of sheet metal and said head being formed of sheet metal and including a body portion extending across the end of the cylinder and having an inwardly projecting flange adapted to fit within the cylinder, said flange having an annular groove therein into which the cylinder wall may be extended for holding the head in the cylinder.

1,682,175. ELEVATED CONVEYER. PAUL M. HASSLER, Fairfield, Iowa, assignor to The Louden Machinery Company, Fairfield, Iowa, a Corporation of Iowa. Filed Oct. 21, 1927. Serial No. 227,735. 4 Claims. (Cl. 105—154.)



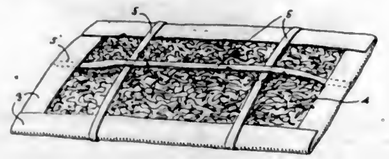
1. In elevated conveyers, a series of trolleys adapted to run on an elevated trackway, each trolley having a load supporting frame depending therefrom and laterally extended portions formed on the opposite edges of said frame below the trackway and in a substantially parallel line therewith, and conveying means horizontally pivoted to said extended portions of the trolley frame at substantially equal distances from the vertical center of the trolley frame.

1,682,176. WAVE MOTOR. FRANCIS HEGENBARTH, St. Louis, Mo. Filed Dec. 12, 1925. Serial No. 74,921. 3 Claims. (Cl. 185—30.)



1. A wave motor comprising a circular track; a rotor arranged to travel on said track; a driven shaft; and means interposed between said rotor and shaft to drive said shaft in the same direction regardless of change of direction of the motion of said rotor.

1,682,177. PACKING PAD. BENJAMIN M. HOBLICK, Fresno, Calif., assignor to Blake, Moffitt & Towne, San Francisco, Calif., a Corporation of California. Filed May 15, 1926. Serial No. 109,237. 2 Claims. (Cl. 154—54.)



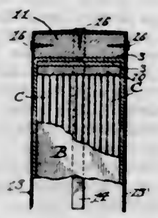
1. As an article of manufacture, a portable packing pad adapted to be placed in a fruit shipping box, said pad comprising a sheet of paper with its margins turned over to form a retaining lip extending entirely around the edge of the pad, a layer of rumpled tissue paper shreds in pad formation arranged on the sheet and retained at the edges of the pad by said lip, a relatively narrow tape passing over the paper shreds and secured at its ends to the sheet, and with said shreds freely exposed between the tape and said lip.

1,682,178. TEETH-CLEANING DEVICE. FREDERICK T. HOPE, Seattle, Wash., assignor to Dental Cleanser Company, Seattle, Wash., a Corporation of Washington. Filed Sept. 28, 1926. Serial No. 138,185. 7 Claims. (Cl. 132—92.)



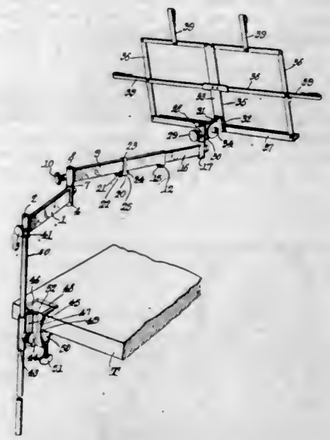
1. In a toilet article, the combination with a tubular casing having an open end and adapted to serve as a receptacle for dental-floss thread, said casing being provided in its periphery with a slot disposed helically of the casing, of a ferrule serving as a closure for the open end of said casing and having a stud engageable within the casing slot, said ferrule being provided with a slot extending from the central portion thereof into proximity of its periphery whereby the turning of the ferrule in one rotary direction will lead the thread into position to be clamped between the ferrule and the casing end through the action of said stud in the helical slot of the casing.

1,682,179. CONTAINER. OTTMAR M. KREMBS, Chicago, Ill. Filed May 20, 1927. Serial No. 192,934. 8 Claims. (Cl. 229—43.)



1. A package consisting of a container member of relatively light material, adapted to receive merchandise of relatively heavy weight to be closely fitted therein, movable protecting blocks at each end of the package, binding means extending longitudinally and across the ends, whereby the end blocks are drawn toward each other and against the ends of the merchandise to be packed, and a circumferentially arranged tie strip, whereby a solid, unitary structure of package and contents is produced.

1,682,180. RACK. EARL S. MERRILL, Kansas City, Mo. Filed May 7, 1927. Serial No. 189,686. 2 Claims. (Cl. 45—82.)

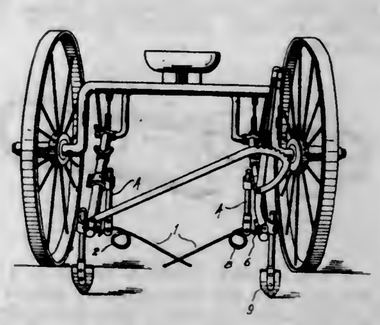


1. In a rack of the class described the combination with a head and a standard, of a jointed arm pivotally connected at its ends to the head and standard respectively, said arm including interfitting telescopically connected channeled members, a yoke connected to the inner end of the inner member and straddling and slidable on the outer member, anti-friction devices carried by the inner member and the yoke for rolling engagement with the edges of the outer member, and anti-friction means carried by the outer member for rolling engagement with the edges of the inner member.

1,682,181. DEPILATORY. CARL S. MINER and ELMER W. TROLANDER, Chicago, Ill., assignors, by mesne assignments, to The Delatone Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 2, 1924. Serial No. 735,500. 4 Claims. (Cl. 167—9.)

1. A depilatory paste comprising barium sulphide and barium sulphate.

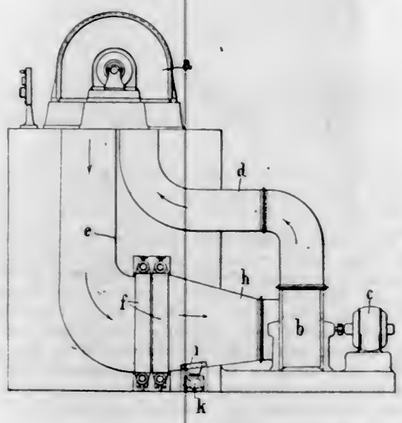
1,682,182. CULTIVATOR ATTACHMENT. LUCIAN MORRISON and JAMES O. SIMMONS, Sr., Troy, Tex. Filed Sept. 22, 1927. Serial No. 221,189. 1 Claim. (Cl. 97—193.)



An attachment for cultivators for destroying weeds and grass, comprising a pair of resilient rods adapted to

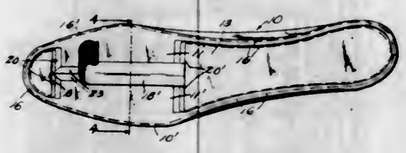
be secured respectively to opposite cultivator beams, each of said rods having one end thereof substantially straight, the opposite ends slightly curved, and an intermediate portion bent in the form of a loop, said curved end adapted to be detachably secured to said beam, the curve on said end being adjustably positioned to vary the angle between said rods, said straight end adapted to travel under the soil for destroying weeds and grass, said intermediate portion having the plane of its loop positioned at an angle oblique to the surface of the ground, said rods crossing each other adjacent the lower ends thereof.

1,682,183. AIR-COOLING APPARATUS. CHARLES ALGERNON PARSONS and JESSEL ROSEN, Newcastle-on-Tyne, England; said Rosen assignor to said Parsons. Filed Sept. 3, 1925, Serial No. 54,291, and in Great Britain Oct. 21, 1924. 2 Claims. (Cl. 257—244.)



1. Apparatus for treating a gaseous medium in which aqueous vapour is suspended, comprising in combination a substantially gas-tight endless duct, means for circulating through said duct said gaseous medium and disposed transversely of said duct and over substantially its full cross-sectional area, a main cooler for cooling said medium to a point not so low as the dew point of said vapour and also disposed transversely of said duct but over only a comparatively small part of its cross-sectional area, auxiliary means for drying said medium by condensing aqueous vapour therein suspended.

1,682,184. SHOE. LUIGI PIGNANELLI, Tacoma, Wash. Filed Aug. 17, 1926. Serial No. 129,703. 3 Claims. (Cl. 36—18.)



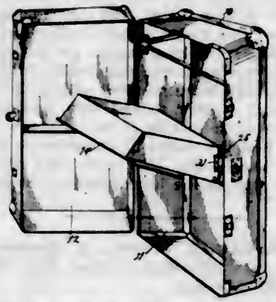
1. In a shoe, an upper shaped to provide in a single piece with the vamp side flaps which are adapted to be turned inwardly above the sole, the free ends of the flaps being secured together, said upper being sewed to the sole by means of stitches disposed in spaced apart relation to the respective flaps.

1,682,185. WINDSHIELD CONSTRUCTION. ALBERT T. POTTER, Detroit, Mich., assignor to Ainsworth Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed May 4, 1925. Serial No. 27,991. 10 Claims. (Cl. 296—84.)



8. In a windshield construction, a channel shaped header, a windshield hingedly mounted upon the lower edge of said header, an operating member arranged within said header, a bar arranged within said header, and a member establishing a connection between said windshield, bar and operating member.

1,682,186. TRUNK. JULIUS RITTER, Jr., Racine, Wis., assignor to Hartmann Trunk Company, Racine, Wis., a Corporation of Wisconsin. Filed Sept. 28, 1925. Serial No. 59,136. 1 Claim. (Cl. 190—13.)

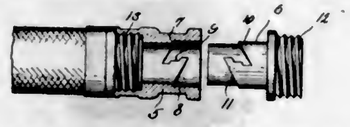


In a trunk, a trunk section; hinge elements secured to opposite walls of said section, comprising relatively short angle members having inwardly projecting flanges provided with apertures; a drawer; companion hinge elements secured to said drawer, comprising members having portions adapted to be readily removably received in said apertures; and stop members carried by said drawer adapted to engage the inwardly projecting flanges of said first named hinge elements to limit the outward swing of said drawer, said stop members being disengageable from said flanges through vertical movement of said drawer to permit the detachment of the latter from the trunk section.

1,682,187. FIRE-HYDRANT COUPLING. HENRY C. SAUNDERS, Ontario, Calif. Filed July 13, 1926. Serial No. 122,201. 1 Claim. (Cl. 285—175.)

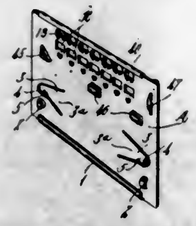
A hose coupling embodying cooperating tubular sections, one of the sections having its inner surface cut away defining inclined shoulders spaced from the outer end

thereof, step-like shoulders connecting the lower ends of the inclined shoulders and the upper edges of the inclined shoulders, the outer surface of the opposite section being cut away defining inclined shoulders, step-like shoulders



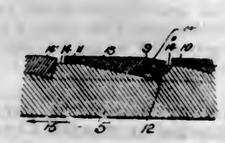
connecting the outer edge of one inclined shoulder with the inner edge of the opposite inclined shoulder, and the shoulders of the sections adapted to interlock to hold the sections together.

1,682,188. PRINTING AND INDEX DEVICE. GEORGE W. SCHAEFER, Quincy, Mass., assignor to Addressograph Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 1, 1925. Serial No. 59,825. 7 Claims. (Cl. 101—368.)



1. A frame of the class described for use in connection with printing plates of different widths, comprising lips struck out from the frame for retaining a plate against lateral or forward motion, a stop for preventing vertical motion of the plate in one direction, and yielding elements protruding from the face of the frame and adapted to be pushed rearwardly during the mounting of a plate and to snap through mating openings formed in the plate to prevent vertical motion of the plate in the other direction.

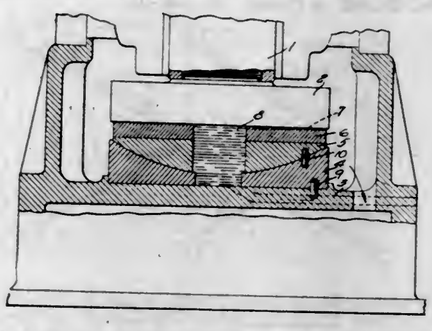
1,682,189. BABBITTED BEARING. ALEXANDER E. SCHEIN, New York, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 20, 1922. Serial No. 537,709. 7 Claims. (Cl. 308—160.)



5. A thrust bearing comprising a stationary member, a plurality of circumferentially grouped stationary bearing shoes directly supported on said member and adapted to support a rotatable member, said shoes being of a more easily compressible metal than the metal of said member, and each of said shoes being of graduated thickness so as to yield unequally under compression to present inclined surfaces.

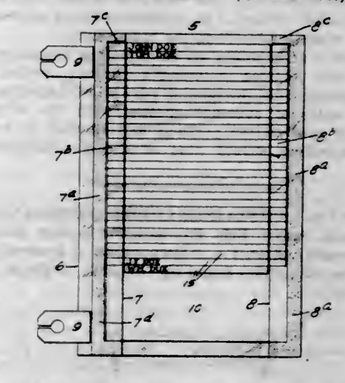
1,682,190. THRUST BEARING. ALEXANDER E. SCHEIN, Flushing, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 4, 1924, Serial No. 741,541. Renewed July 7, 1928. 4 Claims. (Cl. 308—168.)

1. In a thrust bearing of the type in which means are provided at intervals for drawing oil in between the bearing surfaces dividing the plate into sections and a given pressure is maintained upon the bearing, a member located to transmit the thrust pressure through it, said member having a relatively low modulus of elasticity and a substantially uniform relatively great thickness so that each section may be elastically deformed into a wedge shape from



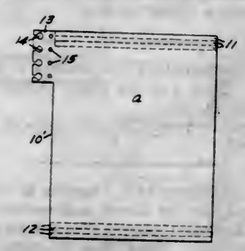
end to end by unequal distribution of pressure generated by the wedging action of the oil film as it enters the bearing between said sections.

1,682,191. VISIBLE CARD-INDEX RECORD. HENRY SCHOOLBERG, Pittsburgh, Pa. Filed Nov. 30, 1926. Serial No. 151,620. 9 Claims. (Cl. 129—34.)



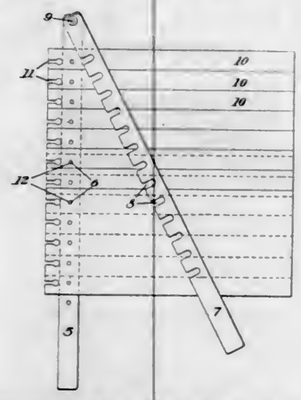
6. A card for use in a card index sheet, comprising a card member adapted at its ends to engage guideways of a sheet, and a thickened portion on the card of less length than the distance between said guideways, whereby the thickened portions of adjacent cards will contact to position the cards on the sheet.

1,682,192. VISIBLE LOOSE-LEAF INDEX AND RECORD. HENRY SCHOOLBERG, Pittsburgh, Pa. Filed Nov. 30, 1926. Serial No. 151,621. 10 Claims. (Cl. 129—1.)



7. A series of sheets for a binder each sheet having a detachable index strip parallel and adjacent to a non-binding edge of the sheet whereby when the index strip is detached the corresponding area of another alined sheet underneath becomes visible.

1,682,193. LOOSE-LEAF BINDER SHEETS AND DEVICE FOR MANIPULATING THE SAME. HENRY SCHOOLBERG, Pittsburgh, Pa. Filed Oct. 8, 1927. Serial No. 224,872. 5 Claims. (Cl. 129—1.)



1. A device for manipulating the sheets of a loose leaf binder comprising a base member and a top member means for pivotally connecting said members at one end of the device to permit vertical and horizontal swing movements of the top member relative to the base member.

5. A loose leaf having a series of slotted post-attaching portions, said portions including a circular opening and a slit extending from the binding edge to said opening and a second series of openings parallel with the series of openings of said slotted portions and adapted to receive the corresponding spaced pins on a sheet-manipulating device.

1,682,194. CONTAINER-COVER CONSTRUCTION. HOWARD A. SELAH, Erie, Pa., assignor to Erie Malleable Iron Company, Erie, Pa., a Corporation of Pennsylvania. Filed Dec. 12, 1924. Serial No. 755,383. 1 Claim. (Cl. 220—55.)



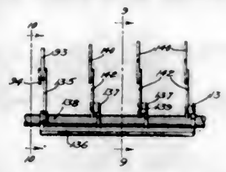
A container cover construction comprising a cover having an opening therethrough adapted to receive a securing screw and a transverse slot extending from the edge of the cover, said slot being of less width than the thickness of the cover providing a part of the cover wall above and below the slot; and a perforated plate in the slot with its perforation in line with the opening in the cover and adapted to retain a screw in the opening.

1,682,195. FUEL BRIQUETTE. GEORGE F. SHEEHAN, Seattle, Wash. Filed Aug. 24, 1927. Serial No. 215,258. 3 Claims. (Cl. 44—23.)

1. A fuel briquette formed of coal, crude oil, sulphur and a suitable binder.

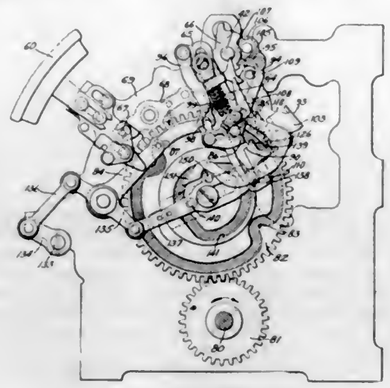
1,682,196. CASH REGISTER. BERNIS M. SHIPLEY, Dayton, Ohio, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed May 7, 1923. Serial No. 637,217. 16 Claims. (Cl. 235—27.)

4. In a machine of the class described, the combination of a plurality of banks of transaction keys, a plurality of arms, one for each bank, adapted to be rocked by the depression of a key in its appropriate bank, a bank of control keys, a detent adapted to be differentially moved by the depression of any of said keys, and a yoke member connected to said detent and adapted to cooperate with said



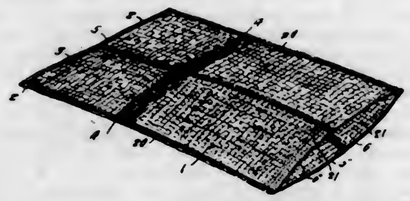
arms to permit a key to be depressed only in the bank of transaction keys appropriate to the key depressed in the control bank.

1,682,197. CASH REGISTER. BERNIS M. SHIPLEY, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Aug. 10, 1926. Serial No. 128,450. 15 Claims. (Cl. 235—130.)



1. In a machine of the class described, the combination of a release shaft, means for either returning said shaft to normal or past normal position, manipulative devices for determining the extent of movement of the release shaft, and means operated under control of said devices for preventing accidental movement past normal when said release shaft is to move only to its normal position.

1,682,198. LAUNDRY BAG WITH IMPROVED SELVAGE AND PROCESS OF MAKING SAME. EUGENE N. SITTON, Autun, S. C., assignor to Pendleton Manufacturing Co., Autun, S. C. Filed June 27, 1927. Serial No. 201,841. 4 Claims. (Cl. 139—389.)



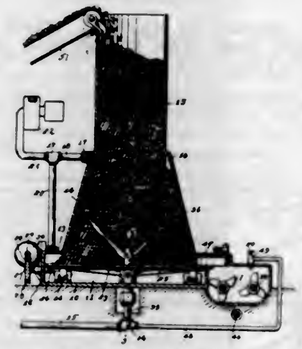
1. The combination, with an open mesh leno weave laundry bag, of a reinforced selvage edge having an extra warp thread and having the filling threads looped around this extra warp thread.

1,682,199. TENNIS RACKET. ROBERT H. SMILIE, Oakland, Calif. Filed Dec. 17, 1927. Serial No. 240,722. 5 Claims. (Cl. 273—73.)



1. A racket comprising a frame, a plurality of interlaced strings supported by said frame and a plurality of deformed double concave discs interposed between said strings.

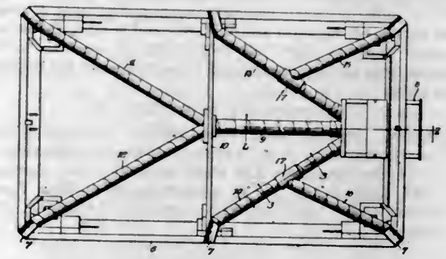
1,682,200. PROCESS FOR FORMING CERAMIC WARE. HALVER R. STRAIGHT, Adel, Iowa. Filed June 14, 1926. Serial No. 116,035. 3 Claims. (Cl. 83—73.)



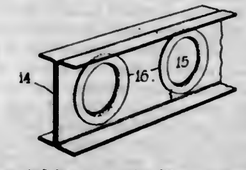
1. The process of reducing shale and the like to a plastic condition, which consists in first reducing the shale to a granulated condition, then piling the same in an upright stack having its bottom and side edges sealed, then stirring the shale in the central and bottom portion of the pile, and introducing steam to said central and bottom portion under pressure in quantities in excess of its condensation.

1,682,201. GULLEY FOR POCKET-BILLIARD TABLES. GEORGE L. THOMPSON, New York, N. Y., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 7, 1920. Serial No. 356,875. 1 Claim. (Cl. 273—11.)

The combination of a pocket billiard table frame having a plurality of throats disposed at its corners and at its sides for the usual pockets of the table, a receptacle at one end of the table, and a plurality of tubular gulley members connecting the throats with the receptacle, said members comprising a centrally disposed member extending back from the receptacle and terminating at a point substantially at the middle of the table, a pair of members diverging from the central member to the throats at the corners of the table remote from the receptacle, a pair of members directly connecting the side throats with the receptacle, and a pair of members each of which directly connects one of the throats at the end of the table adjacent said receptacle to one of the members connected to the side throats.

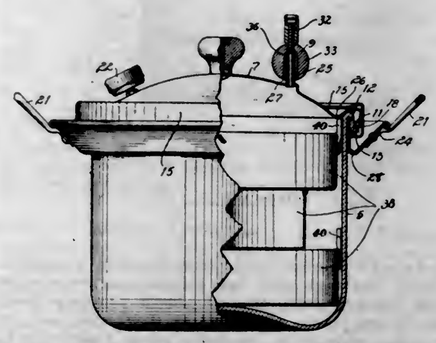


1,682,202. BEAM. STANLEY I. VAUGHN, Hempstead, N. Y., assignor to Curtiss Aeroplane & Motor Company, Inc., a Corporation of New York. Filed June 8, 1927. Serial No. 197,274. 2 Claims. (Cl. 189—37.)



2. A solid metal beam or the like of true I-section comprising two beam parts, each of channel section, and each including marginal flanges and a web portion, the web portions of the beam parts from one to the other of the marginal flanges thereof, bearing flatwise directly one against the other and having formed therein aligned lightening holes, and members engaging in and extending thru said aligned lightening holes and bearing respectively on the outside faces of the engaging flat webs, said means constituting the sole means of fastening and holding said beam parts and hence the I-beams together.

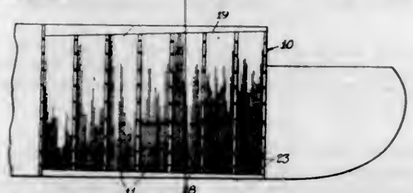
1,682,203. PRESSURE COOKER. ALFRED VISCHER, Jr., Floral Park, N. Y., assignor to Self Seal Pressure Cooker Co., Inc., New York, N. Y., a Corporation of New York. Filed Dec. 29, 1921. Serial No. 525,665. 3 Claims. (Cl. 53—1.)



1. A container combining a body and a closure, and means tending to retain the latter in position on the former, the body and closure having unequal thermal coefficients of expansion, the two parts being readily sepa-

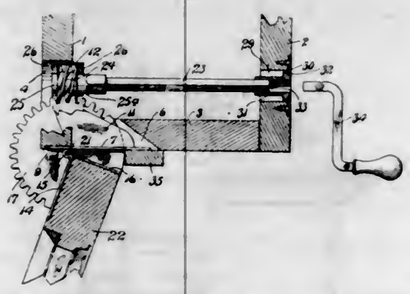
rable at normal or room temperatures, and the closure fitting snugly the mouth of the body and being adapted to form a sealing contact therewith by virtue of the unequal expansion coefficient of body and closure when the parts are at super-normal temperatures, a spring ring around the outside of the cover and the body and holding the cover against removal from the body; and an annular basin formed near said mouth adapted to receive water for cooling the body.

1,682,204. AEROPLANE RADIATOR. WILLIAM WAIT, Jr., Garden City, N. Y., assignor, by mesne assignments, to Curtiss Aeroplane and Motor Company, Inc., Garden City, Long Island, N. Y., a Corporation of New York. Filed Oct. 26, 1922. Serial No. 597,073. 5 Claims. (Cl. 244—31.)



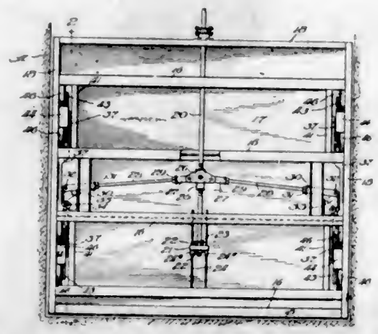
1. The combination with a structural element of an aeroplane, of a radiator fastened to said element and of a construction such that an outer skin-like covering therefor is provided, said radiator comprising a plurality of separately formed radiator sections placed edge to edge and fastened one to the other whereby one or more of said sections may be indepedently removed and replaced at will, each radiator section comprising juxtaposed corrugated metal plates in direct engagement one with the other along spaced lines of contact determined by the size of the corrugations of one of said plates, fastening means for uniting the two corrugated plates along said spaced lines of contact whereby each radiator section is subdivided into a plurality of separated water passages or cells, and headers common to a plural number of said radiator sections, said headers being likewise separately formed and substantially wedge-shaped in cross section and having their direction of greatest length at an angle to the direction of greatest length of said sections.

1,682,205. CASEMENT ADJUSTER. WILLIAM WASSENER, Grand Rapids, Mich. Filed Feb. 2, 1926. Serial No. 85,457. 8 Claims. (Cl. 268—83.)



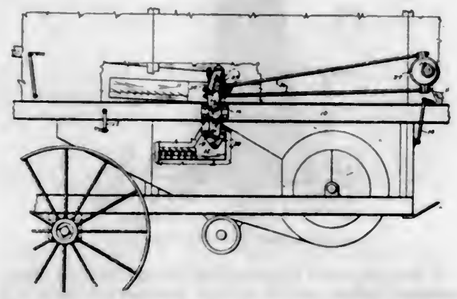
1. In a construction of the class described, a casement frame, a combined hinge and housing member attached to the casement frame including upper and lower hinge parts having lateral extensions at their lower and upper edges respectively, integrally joined together by a cylindrical housing, a window, a second hinge member attached to the window and pivotally connected to the first hinge member, a gear segment rigidly secured to the second hinge member and passing between the upper and lower parts of said combined hinge and housing member and said lateral extensions thereto and into said housing, a worm in engagement with said gear segment mounted in said housing, and a rod connected to the worm adapted to be turned to thereby swing the window with respect to the frame therefor.

1,682,206. HYDRAULIC GATE. LOUIS K. WHITCOMB, Jr., and NICHOLAS VANDERKIEFT, Chicago, Ill. Filed Jan. 20, 1926. Serial No. 82,475. 16 Claims. (Cl. 61—28.)



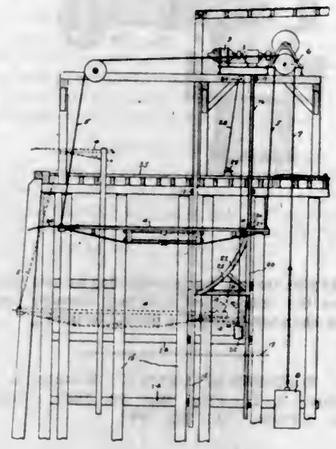
1. In combination with a seat, a sliding gate valve, a balanced mounting carried on the gate, means for shifting said mounting laterally of the gate, and anti-friction devices supported by said mounting adapted to bear against the seat, substantially as described.

1,682,207. THRASHING MACHINE. FRANZ J. WOOD, Des Moines, Iowa. Filed Dec. 26, 1923. Serial No. 682,739. 1 Claim. (Cl. 130—24.)



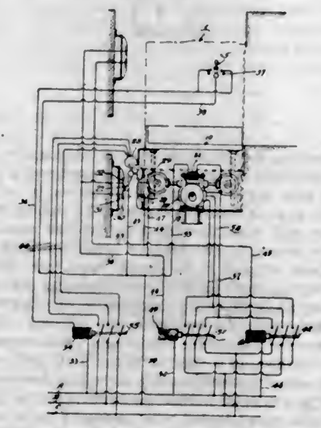
In a thrashing machine, the combination of a machine frame, a grain pan and a cleaner shoe, said pan and said shoe being mounted to reciprocate horizontally with their inner ends slightly spaced apart and overlapping, a lever fulcrumed between its ends to the frame at a point between the grain pan and the cleaner shoe, one end of the lever being extended downwardly and pivotally connected to the cleaner shoe, the other end of the lever being extended upwardly and laterally in a direction toward the receiving end of the grain pan, means for pivotally connecting the upper end of said lever to the inner end of said grain pan, eccentric rods for imparting oscillatory movement to said lever, means for pivotally connecting one end of said eccentric rods to said lever at a point between the pivotal center of said lever and its upper end, the pivotal points of said shoe and said eccentric rods being substantially in a line passing through the pivotal center of said lever, so that when the lever is in one position of its oscillatory movement, the weight of the pivotal end of the said eccentric rods will counterbalance the weight of said shoe, at which time the pivotal center of said grain pan will be substantially vertically above the pivotal center of said lever, and when said lever is in another position of its movement, the weight of said shoe will counterbalance the weight of said grain pan, at which time the pivotal connection of said eccentric rods will be substantially vertically above the pivot center of said lever.

1,682,208. MARINE ELEVATOR. HARRY BARLOW, Port Madison, Wash., assignor to Barlow Marine Elevator Co. Inc., Seattle, Wash., a Corporation of Washington. Filed Jan. 24, 1927. Serial No. 163,290. 5 Claims. (Cl. 14—72.)



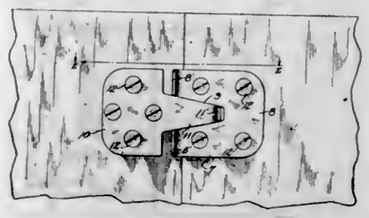
1. A marine elevator embodying an elevator platform suspended at its four corners having a roller means operatively mounted on each side thereof; and adjustable throwout guide members operatively mounted with respect to said rollers whereby said platform may be moved in a direction at right angles to the vertical at any desired point intermediate its flight.

1,682,209. ELEVATOR. MILO A. BAKER, Los Angeles, Calif. Filed Sept. 16, 1926. Serial No. 135,870. 8 Claims. (Cl. 187—29.)



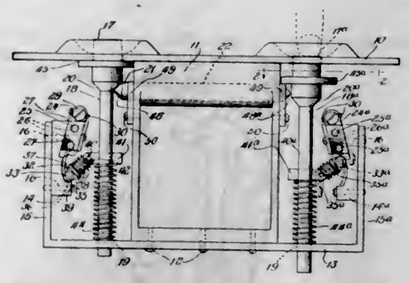
3. An elevator comprising an elevator car, a floor for the car, means for moving said floor relative to said car, a switch carried by the floor and movable into engagement with a member in the elevator hatchway and also movable into engagement with means rigid with the car, and circuits connected with said switch operative to level the floor with the landing when the car stops adjacent a landing and to return the floor to its normal position within the car when the car leaves a landing.

1,682,210. TABLE-LEAF-ALIGNING DEVICE. ALBERT J. BELROSE, Milwaukee, Wis., assignor to The Kiel Furniture Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 12, 1926. Serial No. 115,558. 3 Claims. (Cl. 45—9.)



3. A table leaf aligning device consisting of a pair of plates having means for attachment to table leaves, one of said plates having a tapered edge recess and downwardly beveled edges on each side of said recess, and the other plate having a tapered projecting edge tongue with a downwardly beveled end portion.

1,682,211. SWITCH. JOSEPH W. BISHOP, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 4, 1923. Serial No. 629,761. 2 Claims. (Cl. 200—50.)

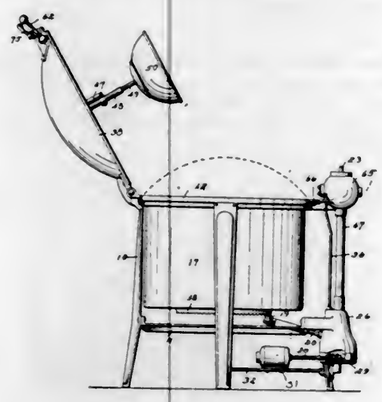


1. In a switch, the combination with a plurality of switch mechanisms each comprising a push button, a lever loosely pivoted to the push button, a roller carried by the lever, a track for the roller, yielding means for keeping the roller in engagement with the track, a terminal adapted to be engaged by the roller, and yielding means for holding the push button in a position wherein the roller is disengaged from the terminal, of means controlled by the push buttons for preventing simultaneous operation of the switch mechanisms.

1,682,212. WASHING MACHINE. HANS T. BORSHEIM, Charles City, Iowa, assignor to Hart-Parr Company, Charles City, Iowa, a Corporation of Iowa. Filed Sept. 21, 1925. Serial No. 57,697. 7 Claims. (Cl. 68—19.)

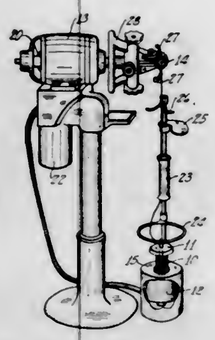
1. A washing machine comprising a supporting frame, a tub rotatively mounted for movement about a vertical axis, a cover member for said tub pivotally mounted to said frame, an agitator carried by said cover member, an actuating mechanism for said agitator also carried by said cover member, means carried by said frame for imparting

movement to said actuating means when the cover member is closed, means for imparting rotary movement to said



tub, and means for simultaneously throwing said tub actuating means and said agitator actuating means into or out of operation.

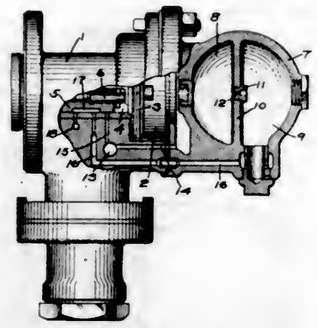
1,682,213. WINDING AND DEREELING DEVICE. PENROSE E. CHAPMAN, St. Louis, Mo. Filed Nov. 4, 1926. Serial No. 146,146. 2 Claims. (Cl. 242—13.)



1. In a winding device, the combination of an electrically driven winding lathe, a false head over which wire from a spool may pass a motor for driving said head and the connections of the armature of said head driving motor, in parallel with the armature of said winding lathe motor.

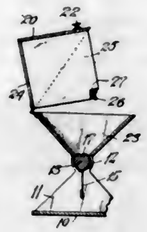
1,682,214. FLUID-PRESSURE BRAKE. ALFRED CHEVILLOT, Paris, France, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Mar. 19, 1927, Serial No. 176,686, and in France Sept. 20, 1926. 8 Claims. (Cl. 303—39.)

5. In a fluid pressure brake, the combination with a brake pipe and a triple valve device comprising a piston and slide valve operated upon a reduction in brake pipe pressure for applying the brakes, of a chamber adapted to be connected



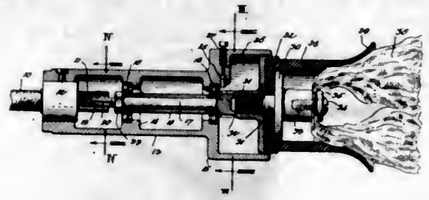
to the brake pipe through ports controlled by said slide valve in applying the brakes, and a second chamber connected to the first chamber through a restricted port.

1,682,215. DISPENSING DEVICE. WARREN L. COLBY, Providence, R. I. Filed May 16, 1927. Serial No. 191,792. 1 Claim. (Cl. 312—84.)



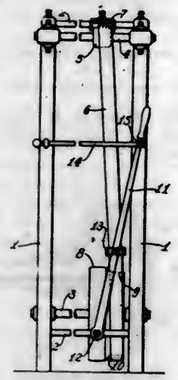
A dispensing device comprising a diagonally disposed hopper comprising a stationary lower part and a lid upper part with said parts of angular formation, a rectangular original package of straws adapted to be tightly fitted into the lid part and to be opened at its exposed corner for releasing the straws in the original container, said lid with the container adapted to be swung down into closed position for housing the container and disposing the open edge thereof lowermost, a roller mounted in the lower part of the enclosing body for engaging the released straws and having a groove therein for receiving a predetermined number of the straws at a time, a finger plate secured to the roller and extending downwardly therefrom for maintaining the roller in a definite normal position with the groove uppermost, said plate adapted to be swung by the hand to turn the roller when the hand is pushed into position beneath the roller, said roller in turning adapted to liberate said predetermined number of straws from the body portion and deposit the straws in the hand disposed beneath the roller.

1,682,216. WINDOW-CLEANING DEVICE. FRANK H. DELLAREE and JACOB BOMZE, Detroit, Mich. Filed Jan. 9, 1926. Serial No. 80,183. 2 Claims. (Cl. 15—97.)



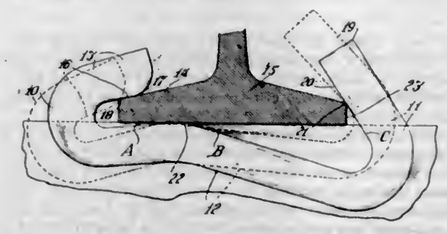
1. A cleaning device comprising a hollow holder, a housing at one end thereof, a driven shaft journaled in said holder, a head on said shaft within said housing, a support for a cleaning instrumentality in screwthreaded engagement with said head, and a cup shaped yieldable shield clamped on said head by and surrounding said support.

1,682,217. BELT-DRIVE MECHANISM. STEPHEN A. DOBYNE, St. Louis, Mo., assignor to Champion Shoe Machinery Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 20, 1922. Serial No. 530,551. 6 Claims. (Cl. 64—4.)



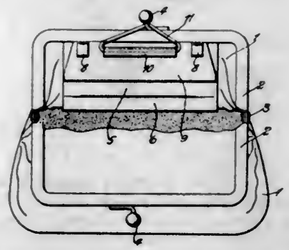
1. Belt drive mechanism, comprising, a driving pulley having integrally thereon a belt-driving face and a belt-receiving face adapted for non-driving engagement with the belt, a driven pulley, a belt-shifting guide at said driving pulley, and a stationary belt guide at said driven pulley.

1,682,218. RAIL ANCHOR. JOHN A. EVANS, Tyrone, Pa., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 26, 1927. Serial No. 171,247. 15 Claims. (Cl. 238—330.)



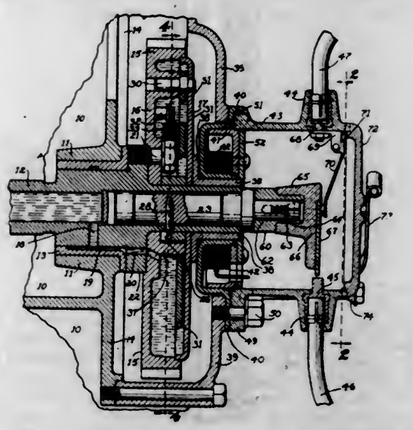
1. A rail anchor consisting of a rail base embracing member provided with a bearing for engagement with the bottom surface of the rail base and provided with gripping portions for engaging the rail base at opposite sides of the rail; the said gripping portions being differentially disposed with relation to said bearing against the bottom and at different angles relative to the bottom surface of the rail, whereby movement of the rail embracing member transversely of the rail to its applied position so stresses the said member as to exert spring force lengthwise of said member tending to move the anchor in a direction to increae its grip on the rail.

1,682,219. CIGARETTE-ROLLING DEVICE. BENJAMIN K. FISHER, St. Louis, Mo. Filed July 21, 1927. Serial No. 207,362. 7 Claims. (Cl. 131—5.)



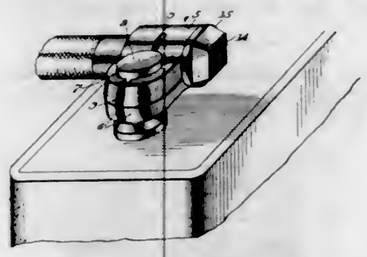
6. The combination with a tobacco pouch having a pivoted frame, of a device for rolling cigarettes including a plate extending inwardly into the pouch and supported in connection with the frame, a support in connection with said plate for holding the pouch, a second plate slidably operable across said first named plate, and a resilient connection between the frame and said second named plate whereby said second named plate is normally held in inclined position with respect to said first named plate, said resilient connection permitting forward sliding movement of said second named plate across the face of said first named plate.

1,682,220. IGNITION DEVICE. HENRY FORD, Dearborn, Mich. Filed Oct. 14, 1926. Serial No. 141,549. 2 Claims. (Cl. 200—22.)



1. A combination with an internal combustion engine having a housing and cam shaft, a hollow timing gear mounted on the cam shaft, and an ignition device comprising an operating shaft, automatic advancing means for said operating shaft being mounted within said time gear and designed to vary the position of said operating shaft, and a circuit making and breaking device mounted outside the said housing in position to be operated by said operating shaft.

1,682,221. TERMINAL-POST CONNECTER. WALTER E. GOSSLING, New York, N. Y., assignor, by mesne assignments, to Prest-O-Lite Storage Battery Corporation, a Corporation of Indiana. Filed July 30, 1920. Serial No. 400,009. 1 Claim. (Cl. 173—259.1.)



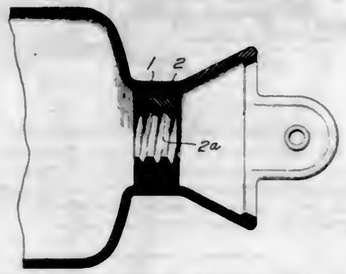
A clamp terminal for binding a conductor to a storage battery terminal post, such clamp terminal comprising a body having a bore provided with oppositely tapering sockets adapted to receive tapering conductors, said bore having a slot extending partially through its wall transversely of its axis, separate relatively adjustable members extending laterally from adjacent said slot and adapted to clamp a storage battery terminal post, and tapering binding means fitting one socket of said bore and adapted to secure a tapering conductor in the other socket of said bore and cooperating with such conductor and sockets to adjust said members to clamp a terminal post.

1,682,222. PACKING FOR PISTONS AND THE LIKE. SAMUEL M. GREENIDGE, Dallas, Tex. Filed May 6, 1926. Serial No. 107,293. 4 Claims. (Cl. 286—30.)



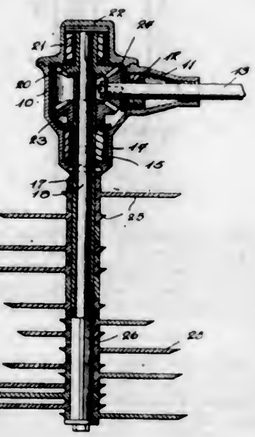
2. In a mechanism having relatively movable parts, a substantially cylindrical packing element, means for anchoring one end of said element to one of said parts, and means including oppositely disposed springs of unequal strength for feeding and guiding the other end of said element against the other of said parts.

1,682,223. MEANS RELATING TO THE MANUFACTURE OF RUBBER WATER BOTTLES. HOWARD A. HANDS, Watertown, Mass., assignor to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Original application filed Mar. 21, 1927, Serial No. 177,010. Divided and this application filed Aug. 22, 1927. Serial No. 214,676. 1 Claim. (Cl. 18—2.)



Means for effecting the vulcanization of the cement between the necks of water bottles and the hard rubber ferrules therein, having threaded bores, comprising a tip member of heat conducting material having an exteriorly threaded portion adapted to screw into the ferrule and having an interiorly threaded portion adapted to screw onto the end of the ordinary electric soldering iron.

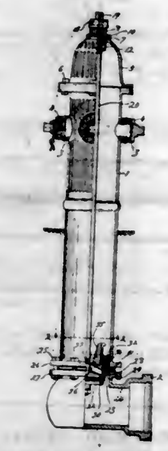
1,682,224. TILLER. THOMAS W. HICKS, Minneapolis, Minn. Filed Mar. 29, 1923. Serial No. 628,044. 6 Claims. (Cl. 97—43.)



1. In a tillage implement, a substantially vertical two-part tiller shaft, disintegrator blades mounted on each part of said tiller shaft, a driving shaft common to the two parts of the tiller shaft, and gear means connecting the driving shaft and the two parts of the tiller shaft.

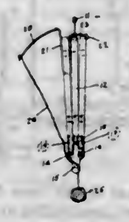
6. In a tillage implement, a tiller mounted to rotate on a substantially vertical axis comprising a shaft on which the lower portion of the tiller is mounted to rotate, a sleeve enclosing the upper portion of the shaft and rotatable with relation to the shaft, bevel gears carried on the upper ends of said shaft and said sleeve with the gear faces confronting but spaced apart from each other, a substantially horizontal driving shaft, and a bevel pinion carried by the driving shaft and meshing with both of said bevel gears to thereby drive the shaft and the sleeve.

1,682,225. HYDRANT. CHARLES HOLDER, Detroit, Mich., assignor to Michigan Valve & Foundry Company, Detroit, Mich., a Corporation of Michigan. Filed July 27, 1925. Serial No. 46,442. 5 Claims. (Cl. 137—13.)



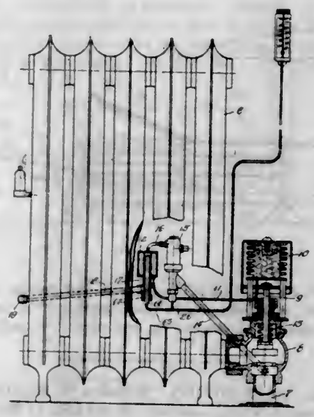
1. In a hydrant, the combination of an outer casing having a valve seat therein provided with a drain conduit, a hydrant valve movable longitudinally of said casing, a yoke pivotally mounted on said valve seat and adapted to seal said drain conduit, a shoulder on said valve engaging and unseating said yoke when said hydrant valve is closed, a rod extending longitudinally of said casing, a rotatable member engaging said rod and threadedly engaging said casing with a loose fit to provide an air vent for the latter, and a seat for receiving said rotatable member forming a seal therewith for closing said vent when said hydrant valve is opened.

1,682,226. TRAP. TOKUJIRO HORIKOSHI, Los Angeles, Calif. Filed June 1, 1926. Serial No. 112,837. 2 Claims. (Cl. 43—89.)



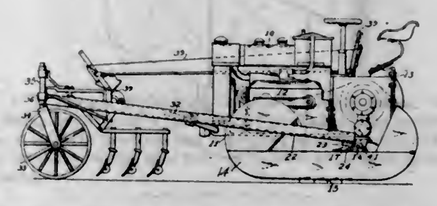
1. A snap trap having a loop-shaped vertically extending main frame, a pair of clamping frames substantially similar in shape and size to said main frame, pivots mounted at the lower end of the main frame on opposite sides thereof and on which the corresponding ends of the clamping frames are pivoted side by side so that when the clamping frames are folded up into setting position they will be on opposite sides of the main frame and substantially parallel therewith and extend to the top of said main frame, a releasable catch engaging the upper ends of said three frames for holding the clamping frames in setting position, means connected with said catch for supporting the bait in position under the lower end of the main frame, and a spring coil on each of said pivots and engaging the main frame and the clamping frames for forcibly turning the clamping frames away from the main frame when released to a downward position beside the bait so that the two frames will clamp together in their downward position.

1,682,227. TEMPERATURE-CONTROLLING APPARATUS. EMIL T. JOHNSSON, Chicago, Ill. Filed Mar. 19, 1926. Serial No. 95,910. 10 Claims. (Cl. 236—42.)



1. In an apparatus of the character set forth, the combination of a heat exchange member, a supply for said member, a supply valve, an expansion member for opening said valve, a chamber connected with said expansion member but remote therefrom, liquid in said chamber and expansion member, a passageway from the supply through the chamber to the heat exchange member for supplying heat to said chamber, a valve for controlling said heat supply to the chamber, and thermostatic means for actuating said valve.

1,682,228. TRACTOR-PROPELLED IMPLEMENT. GEORGE DOUGLAS JONES, Sacramento, Calif., assignor to The Cleveland Tractor Company, Cleveland, Ohio, a Corporation of Ohio. Continuation of application Serial No. 542,107, filed Mar. 8, 1922. This application filed Apr. 27, 1927. Serial No. 189,464. 6 Claims. (Cl. 280—33.13.)

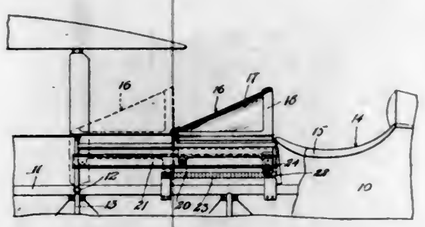


1. In combination, a tractor, an implement carrying frame positioned in advance of said tractor, said frame having rearwardly extending beams pivoted to the rear end of said tractor, each of said beams being provided with a stirrup pivotally secured thereto, and links pivotally connected to said tractor and connected with the stirrups pivoted to the rearwardly extending beams of said implement frame.

1,682,229. ADJUSTABLE WINDSHIELD. TEMPLE N. JOYCE, Arnold, Md., assignor to Curtiss Aeroplane & Motor Company, Inc., a Corporation of New York. Filed Dec. 10, 1926. Serial No. 153,845. 6 Claims. (Cl. 244—30.)

1. The combination, in an aeroplane, of a fuselage having formed therein a cockpit opening, an adjustable wind shield

slidable lengthwise the fuselage to cover and uncover a substantial portion of said opening, said wind shield, in its forward position of adjustment, being adapted to occupy

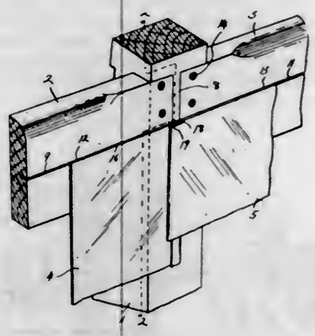


a position forward of said opening, and means operable to lock said wind shield, in any position of adjustment, against sliding movement in one direction only.

1,682,230. HAIR LOTION. MARLETA M. MCDANELD, Johnson County, Kans., assignor of one-half to Esie M. Hereford, Johnson County, Kans. Filed Jan. 18, 1928. Serial No. 247,749. 3 Claims. (Cl. 132—36.2.)

1. A liquid composition adapted to be used on the hair as a permanent wave lotion, comprising borax, bicarbonate of soda, starch and linseed oil, mixed with water.

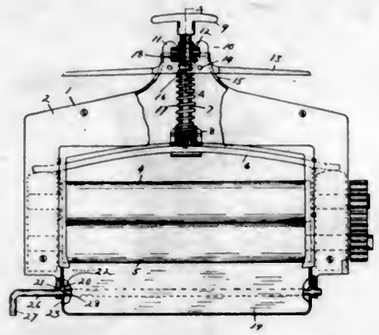
1,682,231. VEHICLE-BODY CONSTRUCTION. NUGENT MILNER, Evansville, Ind., assignor to Graham Brothers, Evansville, Ind., a Corporation of Indiana. Filed Dec. 7, 1925. Serial No. 73,740. 5 Claims. (Cl. 296—29.)



1. In combination, a frame member having recesses therein, and a web between said recesses, frame members secured in said recesses, said web and last mentioned members having aligned slots, and panels secured to the members aforesaid having flanges received in said slots.

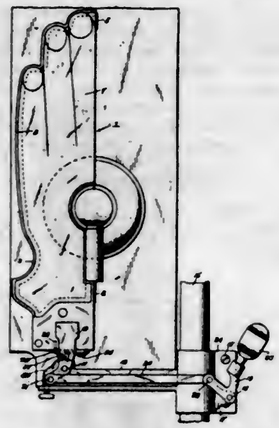
1,682,232. WRINGER. EDGAR D. MISNER, Detroit, Mich., assignor, by mesne assignments, to Lovell Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed Oct. 9, 1922. Serial No. 593,268. 3 Claims. (Cl. 68—32.)

1. In a wringer, the combination with a frame, of upper and lower rolls within said frame, a post extending transversely of said upper roll, said post being longitudinally movable inward to press said rolls into contact with each other, a coil spring surrounding said post, means conveying movement from said post to the upper roll and operatively connected to said spring and upper roll for resiliently moving the upper roll away from said lower roll, a nut threaded upon said post, a releasing lever pivoted upon said frame and



extending thereabove, and a catch actuated by said lever and engageable with said nut to hold said post in an inwardly adjusted position.

1,682,233. HAND-SYMBOL SIGNAL. ALBERT GEORGE MOLNIAR, Albion, Mich. Filed May 18, 1927. Serial No. 192,410. 13 Claims. (Cl. 116—41.)

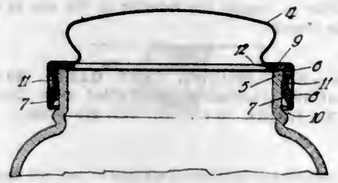


1. An automobile signal of the class described, including a signal element divided longitudinally to form two sections, said sections being hinged together at their inner longitudinal edges to permit one of the sections to swing transversely and fold against the other section, means for moving the signal bodily to and from a signalling position, and means for folding and unfolding the sections of the signal element during the movement of the same to and from the said signalling position.

1,682,234. CLOSURE. PAUL S. MOYER, Chicago, Ill., assignor to The Aridor Company, Chicago, Ill., a Corporation of Illinois. Filed July 3, 1924. Serial No. 723,930. 9 Claims. (Cl. 215—40.)

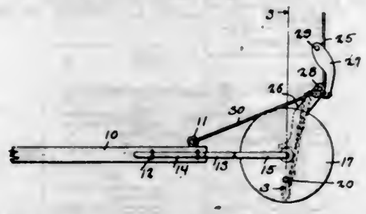
1. A device of the class described comprising a container and removable cap having walls surrounding one the other and spaced apart a substantial distance, and a gasket of resilient yieldable material such as rubber or the like fitted to and in retained engagement with the cap; said gasket comprising a resilient wall of concavo-convex

cross-section squeezed between said walls of the container and cap and bulging against and releasably clasping the container wall, and a flange extending laterally from the



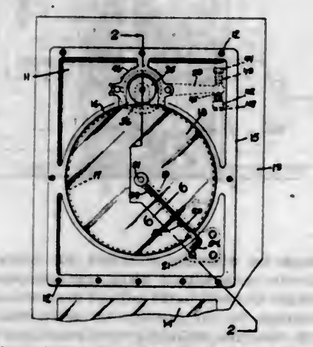
upper end of said concavo-convex wall of the gasket, said flange stiffening the gasket and adapted to seat on the mouth of the container.

1,682,235. FIGURE WHEEL TOY. RAYMOND R. NORDSTROM, Litchfield, Minn. Filed Dec. 2, 1926. Serial No. 152,196. 1 Claim. (Cl. 46—45.)



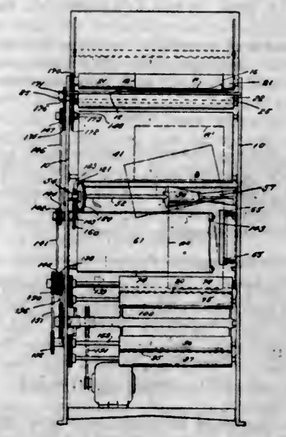
A toy of the character described, comprising a draw bar, a pair of spaced rearwardly directed members attached to said bar and extending beyond one end thereof, a pair of wheel members carried by and supporting said rearwardly extending bars, a shaft eccentrically connecting said wheels, a supporting brace bar having one end pivotally connected with the central portion of said shaft, said bar being designed to normally maintain a substantially upright position and having its upper end extending at an angle rearwardly, a figure carried upon said rearwardly extending portion of the brace bar, means to provide an elongated slot at the upper end of said brace bar, and a connecting link having one end freely and slidably engaging through said slot for movement longitudinally of the brace bar and having the other end freely connected with said draw bar, substantially as described.

1,682,236. ROTATABLE WINDOW. CARL W. OLSON, Minneapolis, Minn., assignor to American Safety Equipment Corporation, Minneapolis, Minn., a Corporation of Delaware. Filed Mar. 29, 1924. Serial No. 703,004. 7 Claims. (Cl. 20—40.5.)



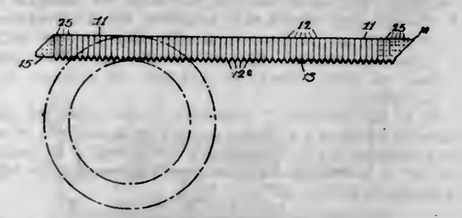
1. A device of the class described comprising a disk rotatably supported, a pivoted lever carrying on one arm a motor, the shaft of said motor havin a driving wheel in engagement with the periphery of the disk, and cushioning means engaging with the opposite arm of the lever.

1,682,237. FOLDING MACHINE. HENRY C. OSBORN, Cleveland, Ohio, assignor to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 14, 1923. Serial No. 680,759. 37 Claims. (Cl. 270—62.)



1. In a folding machine, the combination of mechanism for folding a sheet and propelling it in a plane along a guideway without binding it, and mechanism for then giving the sheet a quarter turn in the same plane.

1,682,238. PROCESS FOR FORMING PNEUMATIC TIRES. JOHN F. PALMER, Buffalo, N. Y. Filed May 23, 1924. Serial No. 715,362. 7 Claims. (Cl. 154—14.)



1. A process of forming pneumatic tire carcasses comprising building up a plurality of plies of carcass material on a straight mandrel, and thereafter bending said mandrel to properly modify said plies to conform to annular carcass shape.

1,682,239. GEL AND METHOD OF PREPARING THE SAME. WALTER A. PATRICK, Baltimore, Md., assignor to The Silica Gel Corporation, Baltimore, Md., a Corporation of Maryland. Filed Feb. 18, 1921. Serial No. 446,108. 22 Claims. (Cl. 23—140.)

1. In the process of preparing tungstic oxide gel, the step of adding a 3 to 7% solution of sodium tungstate to an acid with thorough stirring until the amount of sodium tungstate added results in a final concentration of hydrogen ions resulting from the acid in the mixture of from one-tenth to five tenths mols per litre.

12. The process of preparing a plural oxide gel including tungstic oxide consisting in the steps of adding a solution of a soluble tungstate salt and soluble salts of the acids of the other oxides, to an acid with thorough stirring, said acid solution being in excess of the quantity required to react with said salt solution, and said solutions being of such concentrations and amounts that the mixture will

set to a hydrogel without removal of any of the excess acid and salt, thereafter washing out the excess acid and salt and drying the resulting product.

1,682,240. METHOD OF PREPARING STANNIC-OXIDE GELS. WALTER A. PATRICK, Baltimore, Md., assignor to The Silica Gel Corporation, Baltimore, Md., a Corporation of Maryland. Original application filed Feb. 18, 1921, Serial No. 446,108. Divided and this application filed May 12, 1924. Serial No. 712,862. 12 Claims. (Cl. 23—144.)

5. The process of preparing stannic oxide gel consisting in adding with thorough stirring a soluble stannate solution to an acid solution, said solutions being of such amounts and concentrations that the final concentration of H ions resulting from acid in the mixture is from one-tenth to five-tenths mols per litre whereupon, after a time, the mixture sets to a hydrogel, washing said hydrogel to remove acid and salt, drying the hydrogel at a temperature of 75° to 120° C. to drive off a part of the moisture and then slowly increase the temperature to drive off the greater part of the remaining moisture.

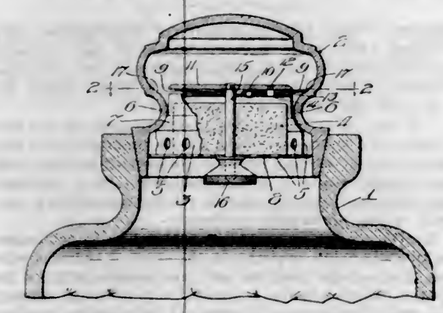
1,682,241. METHOD OF MAKING ALUMINUM-OXIDE GELS. WALTER A. PATRICK, Baltimore, Md., assignor to The Silica Gel Corporation, Baltimore, Md., a Corporation of Maryland. Original application filed Feb. 18, 1921, Serial No. 446,108. Divided and this application filed May 24, 1924. Serial No. 715,729. 12 Claims. (Cl. 23—141.)

1. In the process of preparing aluminum oxide gel, the step of adding with thorough stirring a 3% to 7% solution of a soluble aluminate to an acid solution, the amounts of the aluminate and acid solutions and the concentration of the acid solution being such that the final concentration of the H ions resulting from the acid in the mixture is from one-tenth to five-tenths mols per litre.

1,682,242. METHOD OF MAKING TITANIUM-OXIDE GELS. WALTER A. PATRICK, Baltimore, Md., assignor to The Silica Gel Corporation, Baltimore, Md., a Corporation of Maryland. Original application filed Feb. 18, 1921, Serial No. 446,108. Divided and this application filed May 24, 1924. Serial No. 715,730. 12 Claims. (Cl. 23—202.)

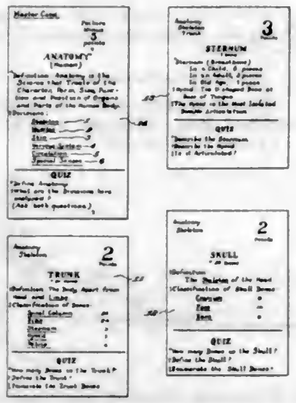
9. In the process of preparing titanic oxide gel, the steps of allowing a colloidal solution of titanic acid to set to a hydrogel, drying the hydrogel in a current of air heated to 75° C. to 120° C. and then slowly increasing the temperature to 300° to 400° C.

1,682,243. CANDY JAR. ROBERT G. PECK and ALBERT BROWN, Chicago, Ill., assignors to The Aridor Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 30, 1923. Serial No. 677,835. 8 Claims. (Cl. 215—48.)



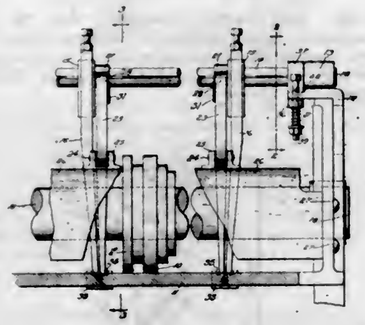
1. A candy jar cap having a hygroscopic pad holder removably mounted therein, said holder having on its upper side a plurality of devices arranged and operating in a horizontal plane and operable from the lower end of the holder, said devices adapted to be retracted to clear a constriction in the cap and to be projected from the upper end of the holder to engage the interior of the cap to support the holder therein.

1,682,244. EDUCATIONAL CARD GAME. ELIZABETH M. PHILLIPS, Clarendon, Va. Filed Sept. 29, 1926. Serial No. 138,378. 6 Claims. (Cl. 273—152.)



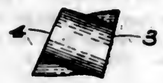
1. An educational game, comprising a series of cards having questions and answers on the same card, relating to different subjects, each of said cards indicating a certain value, and marks identifying the questions with the answers.

1,682,245. FINGER-GAUGE TRUING DEVICE. JAMES PICKERELL, Hoopeston, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed May 2, 1921. Serial No. 466,316. 21 Claims. (Cl. 164—59.)



9. Means for aligning or truing the edges of moving articles with respect to a given line, comprising aligned finger gauges disposed in the path of the articles and removable therefrom by the pressure of said articles and independently releasable locking devices associated with each of said gauges and requiring simultaneous release to permit further advance of said articles.

1,682,246. SLUG FOR CLEANING CASTINGS. CLYDE M. READ, Hollywood, Fla. Filed Mar. 3, 1926. Serial No. 92,018. 4 Claims. (Cl. 51—279.)



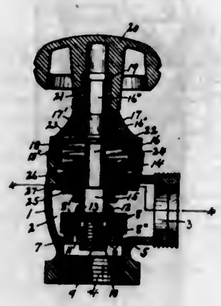
2. Slugs for use in cleaning castings consisting of pieces severed from a twisted bar having an angular cross-section, the severed faces of said slugs being disposed at an angle to each other and at an angle other than 90° to the longitudinal axis of the slug.

1,682,247. CONTAINER. GEORGE CLAYTON REID, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed July 14, 1924. Serial No. 725,811. 4 Claims. (Cl. 220/48.)



4. A sheet metal container a wall of which is formed with a deep continuous score line leaving a thin integral connection between the parts of the wall and adapted to be ruptured to release a part of the wall for opening the container, said score line being filled with a relatively soft metal and not having associated therewith any wire or ripping instrumentality, said wall being formed with a depression at said score line whereby an instrument is guided to the line to begin the rupture of the wall along said line.

1,682,248. VALVE COCK. JAMES REID and GEORGE R. WELCH, Syracuse, N. Y., assignors to Pierce, Butler & Pierce Manufacturing Corporation, Syracuse, N. Y., a Corporation of New York. Filed Nov. 3, 1925. Serial No. 66,548. 7 Claims. (Cl. 251—48.)



1. In a valve of the character described, a case having a valve seat and axially spaced shoulders, a nut having a limited axial movement in the case between said shoulders and toward and from the valve seat and spring pressed toward said seat, a valve movable into and out of engagement with said seat, and a screw engaged with the nut for closing the valve and for moving the nut against the action of its spring for yieldingly holding the valve in its closed position, and means for rotating the screw, said screw having an independent axial movement relatively to its rotating means.

1,682,249. REFRACTORY WARE. FRANK H. RIDDLE, Detroit, Mich., assignor, by mesne assignments, to Champion Porcelain Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 29, 1920. Serial No. 427,137. 20 Claims. (Cl. 106—10.)

1. A raw batch for refractory bodies, comprising a mixture of refractory granules, clay and a sufficient amount of alumina to combine with substantially all of the silica of the clay to form sillimanite of the clay and alumina.

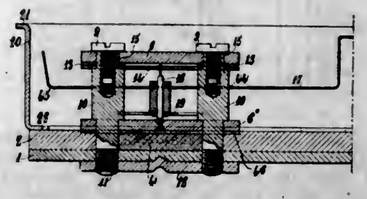
1,682,250. CERAMIC MATERIAL. FRANK H. RIDDLE, Detroit, Mich., assignor to Champion Porcelain Company, Detroit, Mich., a Corporation of Michigan. Original application filed June 1, 1920, Serial No. 385,512. Divided and this application filed Jan. 3, 1921. Serial No. 434,703. 19 Claims. (Cl. 106—11.)

1. A raw batch for ceramic bodies comprising uncombined alumina, clay and a flux, the alumina being in such condition and amount that it will combine with the other materials to form aluminum silicate, upon firing.

1,682,251. CERAMIC MATERIAL. FRANK H. RIDDLE, Detroit, Mich., assignor to Champion Porcelain Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 9, 1922. Serial No. 587,223. 17 Claims. (Cl. 106—11.)

1. A raw batch for ceramic bodies containing andalusite, zirconium silicate, clay and fluxing compounds.

1,682,252. ELECTRICAL MEASURING INSTRUMENT. CHARLES HILAIRE HENRI RODANET, Versailles, France, assignor to Societe Anonyme Etablissements Ed. Jaeger, Levallois, France, a French Company. Filed July 25, 1927, Serial No. 208,364, and in France Aug. 2, 1926. 4 Claims. (Cl. 171—95.)

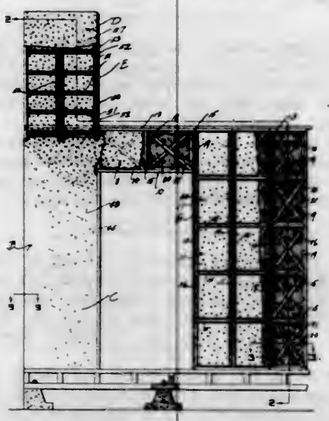


3. In an ammeter, a metallic stirrup piece conducting the current to be measured, a flat magnet parallel to the bridge portion of the said stirrup piece, a vane subject to the action of the magnetic fields, a vertical shaft for the said vane, an indicating needle mounted on the said shaft, vertical pillars fixed to the base of the apparatus to support the said stirrup piece and the said shaft, a lower cross bar connecting the said vertical pillars to form a frame and a magnetizable bar placed below the said cross bar positioned perpendicularly to the permanent magnet and maintained by the said vertical pillars.

1,682,253. FORM AND SECTION FOR BUILDING WALLS. IGENEO ROMERO and ANTONIO COSTINI, Calexico, Calif. Filed July 14, 1925. Serial No. 43,552. 16 Claims. (Cl. 72—16.)

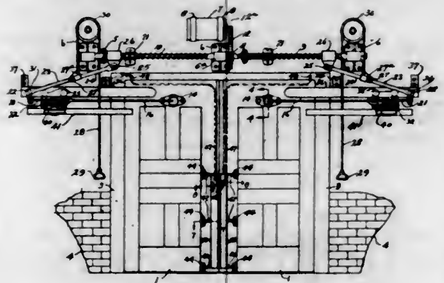
1. In a frame for building sections the combination of a framework providing a compartment therein, narrow

retaining ribs formed rigid with the framework extending into said compartment inwardly of the outer edges of said framework at opposite sides of the ribs, and a



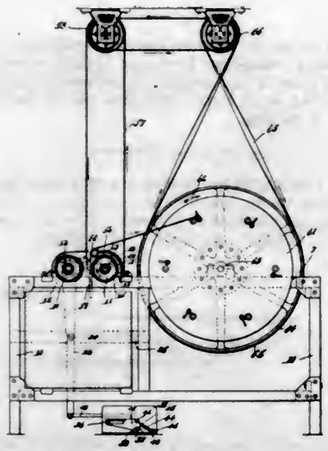
retaining brace extending across said compartment and disposed therein and affixed at its ends to said framework.

1,682,254. AUTOMATIC ELECTRICALLY-OPERATED DOOR. CLAUDE RORABACHER, Detroit, Mich. Filed July 15, 1925. Serial No. 43,840. 12 Claims. (Cl. 268—67.)



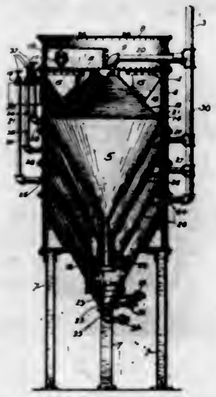
1. In a door operating mechanism, the combination of a door, an electric motor, a screw threaded shaft suitably mounted above the door, driving means connecting the said electric motor and the said screw threaded shaft, a threaded nut adapted to travel longitudinally on the said screw threaded shaft, a tubular guide suitably mounted adjacent the said door, the said tubular guide having a longitudinal slot, a plurality of balls adapted to roll within the said tubular guide, a ball retainer suitably mounted around each of the said balls, a depending stud suitably attached to the said ball retainer, the said depending stud extending through the longitudinal slot in the said tubular guide, a bracket suitably attached to the said depending studs, a stud suitably mounted in the said bracket, a roller suitably mounted on the said stud and adapted to rotate thereon, a guide bar suitably mounted adjacent the door, the said guide bar being adapted to contact with and form a track for the said roller, a bell crank suitably mounted on the said stud and adapted to oscillate thereon, ball studs suitably mounted on the said threaded nut and said bell crank, a drag link mounted on the said ball studs and adapted to swivel thereon, a bearing bracket suitably attached to the said door, a shaft slidably mounted in the said bearing bracket, oppositely disposed springs suitably mounted on the said shaft, a connecting arm suitably attached to the said bell crank and the said shaft, slidably mounted, and means for automatically controlling the opening and closing of the door operating mechanism.

1,682,255. STRIPPING MACHINE. IRVING WILLIAM ROSS, Chicago, Ill. Filed Dec. 7, 1925. Serial No. 73,607. 11 Claims. (Cl. 17—43.)



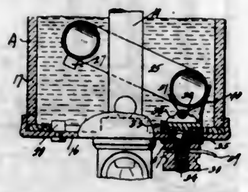
1. A machine of the kind set forth including a pair of stripping cylinders arranged to operate on a casing passing between them; means for moving one cylinder at an angle to the other during the stripping operation, and means for automatically returning said moving cylinder to position after being moved, said means being adjustably regulated by instrumentalities connected therewith substantially as described.

1,682,256. CLARIFIER AND THICKENER. HENRY G. SCHWARZ, Denver, Colo. Filed Mar. 23, 1926. Serial No. 96,713. 9 Claims. (Cl. 209—210.)



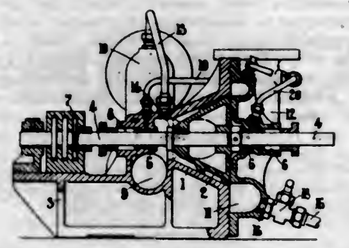
1. Apparatus of the character described comprising an upright shell, a funnel shaped settling chamber in the shell, having a bottom outlet for settling solids, a hood spaced from the wall of the chamber to provide a passage for rising liquid and having a central feed opening, a partition around the feed opening of the hood, dividing the shell into upper and lower compartments each having an outlet, and a weir in the upper compartment for the passage of floating matter to the outlet in the upper compartment.

1,682,257. SAFETY DEVICE FOR LUBRICATING SYSTEMS. EUGENE H. STRONG, Pearsall, Tex. Filed Feb. 18, 1927. Serial No. 169,365. 6 Claims. (Cl. 200—84.)



1. In a circuit maker and breaker for lubricators the combination of a lubricator having a housing with a metal bottom and a compartment therein, a float operable in the compartment with rise and fall of lubricant therein, and a pair of contacts directly carried by said bottom for engagement by the float to bridge the contact at a predetermined low level of lubricant in the compartment, one of said contacts being grounded on the metal bottom and the other contact being insulated upon said bottom, and the float being of metal.

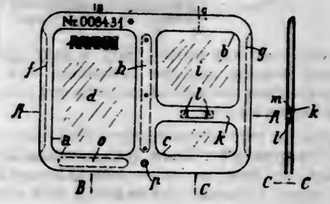
1,682,258. ROTARY PUMP. EDWARD BERRY TAIT, Colchester, England. Filed Nov. 26, 1926, Serial No. 150,961, and in Great Britain Dec. 15, 1925. 3 Claims. (Cl. 103—89.)



1. The combination in a rotary pump of the screw type, of a cone-shaped chamber provided at its smaller end with an inlet and at its larger end with an outlet, a cone-shaped screw mounted to rotate in said pump chamber, an inlet suction chamber at the smaller end of the pump chamber an inlet branch to said suction chamber which rises above the highest part of the pump chamber, a discharge chamber at the larger end of the pump chamber having a delivery outlet, a pipe connecting the highest part of the suction chamber with the highest point in the inlet branch, and a pipe connecting the discharge chamber below the level of the water in same when the pump is stopped and any convenient part of the inlet branch contiguous to the suction chamber.

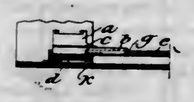
1,682,259. IDENTITY-CARD HOLDER. ALBERT WILDEN, Cologne, Germany. Filed May 18, 1925, Serial No. 31,206, and in Germany Nov. 6, 1924. 1 Claim. (Cl. 40—154.)

An identity card holder, comprising a one piece frame of sheet metal of a brittle character bent to a U-form, a flap at each end of one half of the frame, said flaps being adapted to fold over the other half of the frame, the halves of said frame having coinciding inspection apertures in them, two photo inspection apertures being arranged one above the other and side by side with a ticket inspection aperture in each half of the frame, an impressed groove in one of the strips of metal dividing the said apertures from one another, means for permanently securing in said frame a photograph to be displayed through the said photo inspection apertures consisting of tongues formed



integrally on one half of said frame and adapted to be passed through said photograph and the other half of the frame and bent over, the material of such tongues being of low pliability such as to insure fracture upon being bent a second time, identification matter, agreeing with corresponding matter on the period ticket, impressed in the metal of the frame, and means for detachably securing in the frame the ticket to be displayed comprising an impressed groove in that part of the frame adjacent to the aperture for the ticket.

1,682,260. PHOTOGRAPHIC CAMERA. GUSTAV ZIEGLER, Munich, Germany, assignor to A. Hch. Rietzschel G. m. b. H., Munich, Germany. Filed May 14, 1925, Serial No. 30,317, and in Germany June 26, 1924. 3 Claims. (Cl. 95—40.)

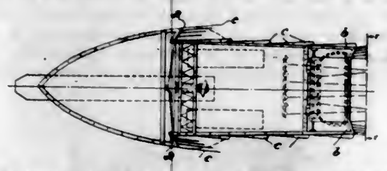


1. A camera of the type including a hinged side, providing a folding bed, a lens carrier, a fixed guide therefor permitting movement of the lens carrier at right angle to the hinge connection of the side, a guide on the hinged side and defining substantially a continuation of the fixed guide when the hinged side is entirely open and a member pivotally connected with the lens carrier, characterized by the fact that said member carries at its outer end laterally extending and transversely alined projection and the guide on said hinged side has the form of laterally disposed slideways for receiving said projections.

1,682,261. PRODUCTION OF IMITATION PAINTINGS. HUGO GABLER-ADLERSFELD, Vienna, Austria. Filed Mar. 19, 1924, Serial No. 700,437, and in Germany Mar. 29, 1923. 8 Claims. (Cl. 41—27.)

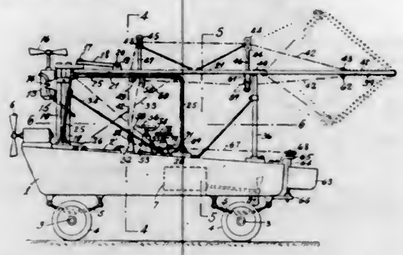
1. A process of producing imitation paintings consisting in coating a transparent support with a layer of a transparent substance supplying this coating with a layer of chromated gelatine that does not contain any solid particles of pigment, exposing the latter to the action of light under a photographic negative, developing the image, drying, applying paint to the diapositive obtained by the said developing, securing after drying of the paint a sheet of tough flexible material on the layer of paint and finally pulling off the picture from the transparent support.

1,682,262. BODY STRUCTURE FOR AERIAL AND LAND VEHICLES AND MARINE CRAFT. UGO ANTONI, Viareggio, Italy. Filed Feb. 8, 1927, Serial No. 166,755, and in Italy May 5, 1926. 4 Claims. (Cl. 244—30.)



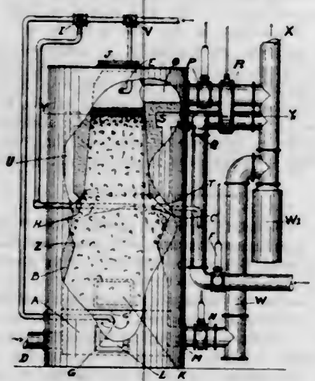
1. In aerial, land and marine craft, a body having external offsets defining step-like formations, and flexible plates arranged along the sides of the body, and also located at the step-like formations.

1,682,263. AIRCRAFT. JOSÉ BILBAO, Habana, Cuba. Filed Sept. 17, 1926, Serial No. 136,137, and in Cuba Aug. 28, 1926. 2 Claims. (Cl. 244—2.)



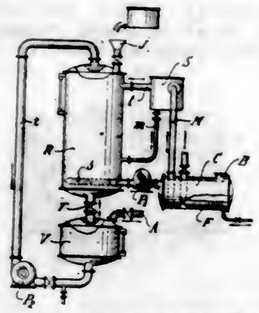
1. An aircraft having a wing rotatably mounted upon a transverse horizontal shaft, a yoke shaped support that holds said horizontal shaft in position and is in turn rotatable upon a vertical shaft located in the middle longitudinal line of the craft, a mounting arising in the forward end of the aircraft, and supporting said vertical shaft and lateral demountable holding means for said wing.

1,682,264. METHOD OF GENERATING GAS. CLAUDE W. BOTSFORD, Los Angeles, Calif., assignor to William W. Odell, Pittsburgh, Pa. Original application filed Dec. 26, 1919, Serial No. 347,566. Divided and this application filed Aug. 30, 1923. Serial No. 660,203. 16 Claims. (Cl. 48—208.)



9. A method of making water gas from solid fuel in a single generator, consisting in first air blasting an ignited fuel bed alternately up and down from substantially midway the ends of the fuel bed, then shutting off said air blast and making a straight up steam run, introducing the steam from beneath the fuel bed, and removing the finished gas from above the fuel bed.

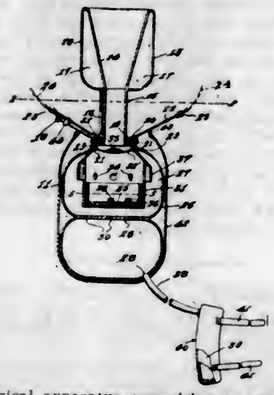
1,682,265. PROCESS AND DEVICE FOR CONCENTRATING INCRUSTING OR CORROSIVE SOLUTIONS. PLINIO BRINGHENTI, Milan, Italy. Filed Jan. 15, 1926, Serial No. 81,599, and in Italy Oct. 26, 1925. 2 Claims. (Cl. 159—2.)



1. In the process of concentrating solutions wherein the solution is directly treated with a liquid heat transmitting medium, heating the solution to be concentrated at a temperature lower than its boiling point by continuously introducing therein a stream of finely divided heat transmitting liquid lighter than the soluton and insoluble therein; floating off the said liquid, separating entrained solution therefrom, heating the separated liquid by direct contact with a hot gaseous medium so as to restore heat thereto lost to the solution; spraying the heated solution into a vessel whereby it is partly evaporated, carrying off the vapours evolved from the evaporation, returning the partly concentrated solution to the cycle for further concentration by treatment with the finely divided heated liquid repeating the cycle as often as desired and running off the concentrated solution.

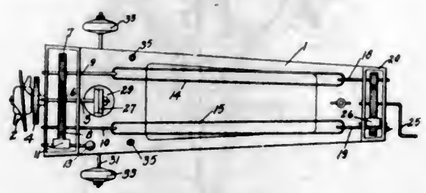
2. Apparatus for concentrating solutions comprising a vessel to contain the solution, a second vessel to contain the heat transmitting liquid, means for heating the said liquid, a pump adapted to transfer the said heated liquid to the first mentioned vessel, spraying means within said first vessel, an evaporating vessel in communication with said first vessel, spraying means within said evaporating vessel, a pump adapted to return partly concentrated solution from the evaporating vessel to the first vessel, an outlet for the heat transmitting liquid from said first vessel, a separator connected to said outlet adapted to separate entrained solution from the heat transmitting liquid, and return same to said first vessel, and adapted to return the heat transmitting liquid to the second vessel.

1,682,266. SURGICAL APPARATUS. BENJAMIN THOMAS DAGGY, Richmond, Ind. Filed July 13, 1927. Serial No. 205,462. 7 Claims. (Cl. 128—285.)



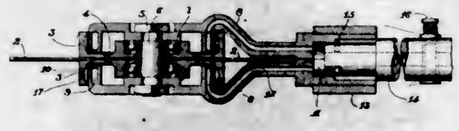
1. A surgical apparatus comprising an expansible head portion open at its end and adapted to be expanded to fill the inner vaginal cavity, a non-expansible passage extending through the head portion, a body, a hollow neck connecting the head portion and body, a container within the body, a transforming cup interposed between and communicating with the neck and container, transforming chemicals within the transforming cup and means to secure the apparatus in position for use.

1,682,267. TOY AEROPLANE. WILLIAM H. DANIEL, Spokane, Wash. Filed June 18, 1927. Serial No. 199,829. 2 Claims. (Cl. 46—48.)



1. The combination in a wheeled toy with a propeller shaft having a pinion thereon, a pair of spaced driving shafts and driving gears for the pinion, of a crank shaft having a gear thereon, a pair of power shafts having pinions meshing with the gear, and a pair of endless rubber bands suspended between the respective driving and power shafts.

1,682,268. WOOD-CUTTING APPARATUS. JAMES A. DAVEY, Sound Beach, Conn., and PAUL H. DAVEY and CHARLES L. GAUGLER, Kent, Ohio; said Gaugler assignor of his one-third to The Davey Tree Expert Company, Kent, Ohio, a Corporation of Ohio. Filed Aug. 2, 1923. Serial No. 655,264. 18 Claims. (Cl. 30—11.)



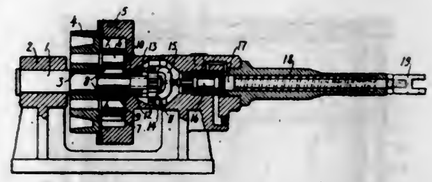
1. A wood cutting apparatus including a single rotary cutting tool having a bucketed turbine rotor on each side thereof, the turbine rotors having a bucket circle of at least as large diameter as the nozzle circles, and the tool describing a circle of larger diameter than the bucket circles, substantially as described.

1,682,269. PROCESS FOR THE PRODUCTION OF PRIMARY STIBINIC ACIDS. FITZGERALD DUNNING and EBENEZER EMMET REID, Baltimore, Md., assignors to Hynson, Westcott & Dunning, Baltimore, Md., a Firm. Filed Jan. 6, 1927. Serial No. 159,499. 6 Claims. (Cl. 260—11.)

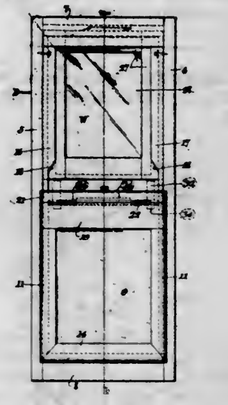
1. Process for the production of primary stibinic acids of the general formula $R—SbO_3H_2$ in which R stands for an aromatic residue, substituted or not, which comprises diazotizing a primary amine and combining the diazo compound with an antimony salt in an acid reaction medium, and decomposing the diazo antimony compound so formed by treating it with a hot caustic alkali solution.

1,682,270. APPARATUS FOR REGULATING SPEED VARIATIONS IN POWER ENGINES EXPOSED TO VARYING LOAD. JOHAN EMIL ERIKSEN, Oslo, Norway. Filed Oct. 29, 1926. Serial No. 145,081. 5 Claims. (Cl. 137—140.)

1. In an apparatus for regulating the speed in power engines exposed to varying load, a rotatable sleeve, a driving pulley connected to the same, a flywheel mounted loosely on the said sleeve, and having a recess taking up pins for supporting centrifugal bodies, a hub on the flywheel provided with notches coacting with the said centrifugal bodies, and means for transferring the relative adjustment of the said parts to a device controlling the admission of pressure fluid to the power engine.



1,682,271. DOOR WITH COMBINED SCREEN AND ADJUSTABLE WINDOW. GEORGE L. EVELETH, Arcadia, Calif. Filed Mar. 12, 1927. Serial No. 174,959. 4 Claims. (Cl. 20—36.)

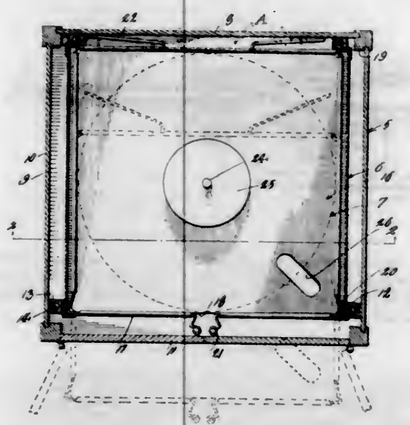


1. In a door with combined screen and adjustable window, the combination of a door, lower spaced panels mounted on the lower portion of the door, a window slidably mounted on the upper portion of the door and slidable to a concealed position between the aforesaid spaced panels, a screen mounted in the upper portion of the door, manually operated means carried by the screen sash to permit of quickly mounting the screen on the door and readily removing it therefrom without the use of tools, said means comprising a latch pivotally attached to a recessed portion of the screen sash and metal strips affixed to the lower portion of the screen sash and having projecting ends adapted to engage a retaining element carried by the door, and said retaining element.

1,682,272. RECORD HOLDER. WILLIAM B. FRANKENSTEIN, Rochester, N. Y. Filed Oct. 29, 1923. Serial No. 671,552. 3 Claims. (Cl. 312—15.)

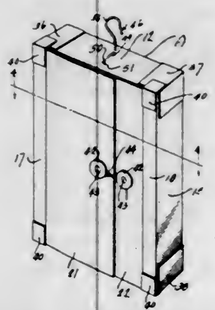
1. In a phonograph disk record cabinet, a sheet metal tray including a flat body, means formed on the body for supporting the record, rolled beads formed on the front, rear and side edges of the body, resilient wire rods mounted

in said beads, outwardly extending resilient corner latches formed in said rods arranged to extend beyond the front corners of the tray, handles formed on the forward ends of



the rods for operating said latches, and rearwardly extending resilient arms formed on the rear ends of said rods, as and for the purpose specified.

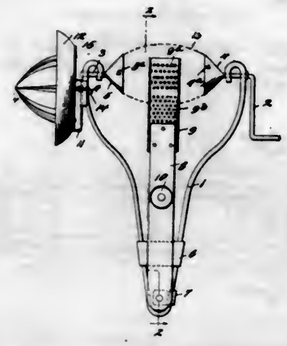
1,682,273. WARDROBE. WILLIAM A. FULLER, Toledo, Ohio. Filed Dec. 16, 1924. Serial No. 756,299. 3 Claims. (Cl. 206—7.)



1. A receptacle of the class described providing a top wall and defining a compartment therein having an opening therein, closure means for said opening, said top wall having a slot therein, and a wire member bent intermediate its ends and doubled upon itself to provide a pair of spring arms, said spring arms at the bight connection thereof extending through the slot of said top wall so that the spring arms engage the top wall at the outer and inner sides thereof to clamp said member on said top wall, said member including a handle formed on the arm at the outer side of said top wall and including a supporting hook at the inner side of said top wall, said last mentioned hook extending into said compartment.

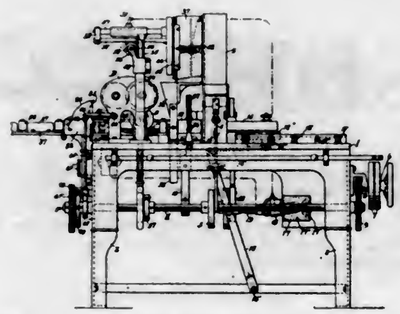
1,682,274. GRATER AND REAMER FOR CITRUS FRUITS. OTTO C. GUSSNER, Mandan, N. Dak. Filed Oct. 8, 1927. Serial No. 224,937. 2 Claims. (Cl. 146—3.)

1. A grater for citrus fruits comprising a metallic yoke, a pair of rotatable cone shaped devices journaled adjacent the upper ends of said yoke, means for imparting rotative movement to one of said cone shaped devices, means for shifting the ends of said yoke toward each other for clamping a citrus fruit between said cone shaped devices, and a grater comprising a strip having various sizes of grating



teeth thereon, and means for varying the position of said grater with respect to the citrus fruit clamped between said cone shaped devices for subjecting the rind of the citrus fruit to abrasive action for the removal of selected sizes of particles of the rind.

1,682,275. PACKING MACHINE. ROMAN NAVARRO Y GONZALEZ, Habana, Cuba. Filed Dec. 23, 1924, Serial No. 757,746, and in Cuba Nov. 7, 1924. 3 Claims. (Cl. 93—2.)

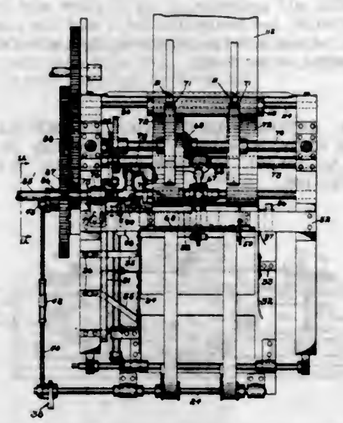


1. In cigarette packing machines, compressor elements for compressing a bunch of cigarettes prior to wrapping the same, comprising, an open ended casing to receive a bunch of cigarettes, a compressor operable within the casing, means for giving the casing a movement transverse to the direction of subsequent travel of the bunch and means to operate the compressor for effecting a light compression of the bunch of cigarettes while within the casing.

1,682,276. BAG-SEPARATING APPARATUS. CARL H. HARTMAN and LOUIS H. HARTMAN, Toledo, Ohio, assignors, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill., a Corporation of Delaware. Filed June 12, 1926. Serial No. 115,483. 11 Claims. (Cl. 271—29.)

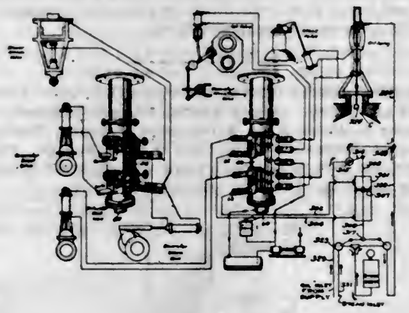
1. In apparatus of the character described, a conveyor belt having approximately horizontal run, guides adapted to support a bundle of bags standing on end on said belt, a

flat support over which the belt runs, means to separate one of the upper corners of each successive bag, one at a time, from the other bags of the bundle, a member movable



transversely from said corner across the path of the bags between the separated bag and the bundle, and means to feed forward at regular intervals the separated bags.

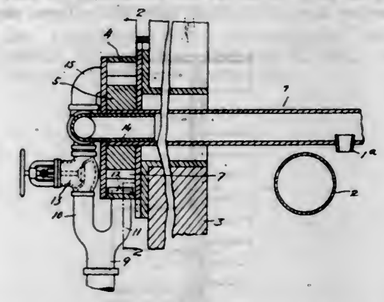
1,682,277. OIL-SPRAY PURGE MECHANISM FOR WATER-GAS APPARATUS. FRED B. HAYES, Fort Wayne, Ind., assignor to Western Gas Construction Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Aug. 11, 1924. Serial No. 731,426. 7 Claims. (Cl. 48—87.)



5. An automatic oil spray purge mechanism for gas making apparatus, comprising in combination: an oil spray, means for supplying oil to said spray, means for supplying steam to said spray, and automatic means for controlling the supply of oil to said spray, said means being further operative to control the supply of steam to said spray.

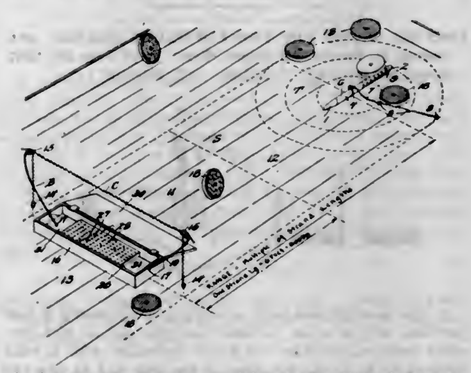
1,682,278. BOILER CLEANER. HERMAN C. HEATON, Chicago, Ill., assignor to Diamond Power Specialty Corporation, Detroit, Mich., a Corporation of Michigan. Filed June 30, 1924. Serial No. 723,220. 2 Claims. (Cl. 122—392.)

1. In a boiler cleaner, the combination with a blower element, of a casing into which said element extends, a pair of enmeshed gears within said casing, one of which has driving engagement with said element, said gears forming with said casing an inlet chamber for an energizing fluid at one side of the common center line of said gears and an outlet chamber for said fluid at the other side of said center



line, and means for delivering an energizing fluid to said inlet chamber and for exhausting said fluid from the outlet chamber.

1,682,279. GAME APPARATUS. MEIER GEORGE HILPERT, Bethlehem, Pa. Filed Nov. 28, 1923. Serial No. 677,540. 11 Claims. (Cl. 273—126.)



1. A game apparatus comprising a plurality of discs, a goal having a measuring device divided into sections and adapted to be swung around the goal to measure the distance of the discs therefrom, and a pair of standards connected by a strand attached to their upper ends, said standards adapted to be set vertically at a distance a multiple of the length of the strand from said goal, and with the strand parallel to and spaced from the ground.

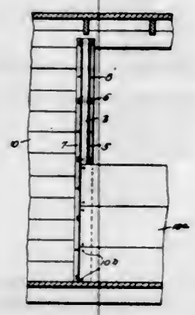
1,682,280. PROCESS OF PREPARING ALKYL ESTERS OF ABIETIC ACID. ALAN C. JOHNSTON, Mine Hill, N. J., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed July 29, 1926. Serial No. 125,833. 11 Claims. (Cl. 260—98.)

1. The process of preparing an alkyl ester of abietic acid which comprises the step of treating wood rosin with an alkyl sulfate in the presence of an alkali.

1,682,281. COMBINED GRAIN-DOOR STRIP AND SIDE-DOOR-POST PROTECTOR. SYLVESTER L. JOINER, McGregor, Tex. Filed Mar. 5, 1927. Serial No. 173,126. 2 Claims. (Cl. 20—27.)

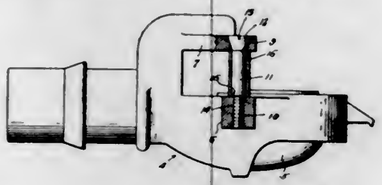
2. A combined grain door strip and side door post protector located interiorly of the car at the side of the door opening and comprising a sectional metallic housing composed of spaced relatively heavy angle bars having angularly related webs, a wood filler strip arranged between and

filling the space between the angle bars and adapted to receive the fastening devices for securing a grain door to the car, and means carried by the webs of the angle bars for securing the latter to the car and for holding the filler strip in position between the angle bars, the sectional metallic



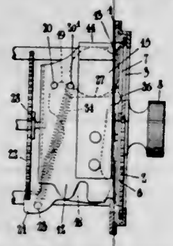
housing permitting the ready removal and replacement of the wood filler strip, said angle bars being rounded exteriorly at the outer edges to present rounded surfaces at the corners of the combined grain door strip and side door post protector.

1,682,282. STOP PIN FOR COUPLING HEADS. SYLVESTER L. JOINER, McGregor, Tex. Filed July 28, 1927. Serial No. 208,945. 2 Claims. (Cl. 285—62.)



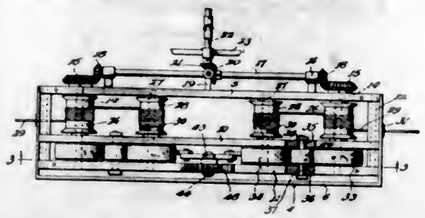
1. The combination with a coupling head having a boss provided with a screw threaded aperture and an arm provided with an aperture, of a bolt provided with a head adapted to fit in the aperture of the arm and at one end reduced to provide a shoulder to bear against one face of said boss, the reduced end of the bolt being screw threaded for threaded engagement in the screw threaded aperture of the boss, whereby to prevent contraction of said arm toward the coupling head or expansion therefrom incident to jars.

1,682,283. COIN-CONTROLLED ELECTRICITY METER. RICHARD WARD JOLLY, Wimbledon, England, assignor of one-half to Meters, Limited, Manchester, England. Filed Dec. 8, 1926, Serial No. 153,418, and in Great Britain Feb. 6, 1926. 2 Claims. (Cl. 194—72.)



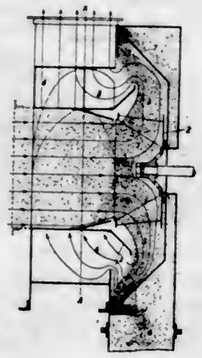
1. In a coin-controlled electric meter, the combination comprising a frame, a price-change plate rotatably mounted on said frame and having a coin insertion slot therein, means for securing said plate in varying angular positions with respect to said frame, a coin pocket rotatably mounted upon said price-change plate, a lever rotatably mounted within said coin pocket and having a projection thereon, two pin members mounted upon said coin pocket and coacting with said projection so as to allow said lever to slide and rotate, and means attached to said coin pocket for retaining the coin in the pocket during the required rotation of said pocket, as set forth.

1,682,284. AUTOMOBILE EXTRICATING MECHANISM. ROBERT JONES, Milwaukee, Wis. Filed July 29, 1926, Serial No. 125,801. Renewed July 3, 1928. 6 Claims. (Cl. 254—166.)



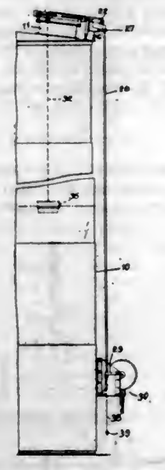
1. In mechanism of the class described, the combination with the propeller shaft of an automobile, of a countershaft mounted for rotation and longitudinal shifting movement, a gear upon the propeller shaft, a gear upon the countershaft, means yieldably holding the said last mentioned shaft shifted to position to disengage the last mentioned gear from the gear upon the propeller shaft, manually operable means for shifting the last mentioned shaft to bring the gear thereon into mesh with the gear upon the propeller shaft, a drum shaft driven from the said countershaft, a drum fixed upon the said shaft, a second drum shaft, a drum fixed to the last mentioned shaft, a cable wound about the first mentioned drum and connected to the second mentioned drum and having connecting means at its free end, a gear upon each of the drum shafts, and a gear movable into and out of mesh with the drum gears for transmitting motion to the second mentioned drum.

1,682,285. CENTRIFUGAL APPARATUS FOR DUST SEPARATION. GEORGE KEITH, London, England, assignor to James Keith & Blackman Company, Limited, London, England, a Corporation of Great Britain. Filed Mar. 26, 1926, Serial No. 97,524, and in Great Britain Mar. 27, 1925. 4 Claims. (Cl. 183—77.)



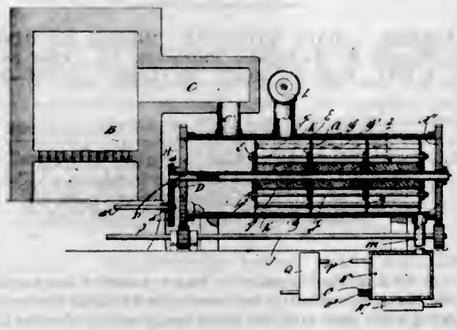
1. A centrifugal apparatus for dust separation comprising a fan impeller and a fan casing comprising an impeller chamber of non-volute form in which the heavily dust-laden fraction of fluid being treated is separated from the relatively dust-free fraction, and a spiral chamber coaxial with the impeller chamber, into which spiral chamber the impeller chamber opens axially to permit the passage of the relatively dust-free fraction to the spiral chamber.

1,682,286. TANK-GAUGING APPARATUS. ALFRED KINZBACH, Sour Lake, Tex. Filed Sept. 16, 1924. Serial No. 737,996. 4 Claims. (Cl. 73—82.)



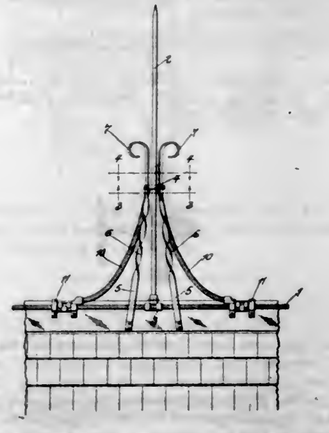
1. In combination with a tank having a hatch and a cover therefor, a packing member mounted on said cover, an adjustable bracket secured on said cover with one end thereof projecting beyond the edge of said tank, a gauge line mounted on said bracket, one end thereof extending through said packing member into said tank, a float on one end of said line, a reel secured outside said tank and to which the other end of said gauge line is secured, a second reel operatively connected to the first named reel, and an independent weighted line attached to said second reel and adapted to reel up any slack in the gauge line.

1,682,287. PROCESS OF AND APPARATUS FOR DISTILLATION OF OIL FROM OIL SHALE. HERMAN B. KIPPER, Muskegon, Mich. Filed Aug. 2, 1923. Serial No. 655,168. 5 Claims. (Cl. 202—16.)



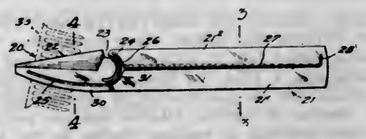
1. In a process of distillation of the oil constituents from oil shale in a closed chamber, the step of passing heated gases through the finely ground oil shale to produce distillation of the organic constituents of the shale, the step of simultaneous mixing and further subdividing of the shale and the step of removing the material from the walls of the distillation chamber.

1,682,288. LIGHTNING-ROD CONSTRUCTION. SIDNEY D. KRETZER, St. Louis, Mo. Filed Sept. 22, 1921. Serial No. 502,380. 2 Claims. (Cl. 173—31.)



1. In a lightning rod construction, the combination of a main cable, an approximately vertical rod having its lower end attached to said cable, a plate through which said rod extends above said cable and having openings spaced from said rod, a plurality of uprights having their upper ends attached to said plate and their lower ends attached to a roof, and a pair of cables having their upper ends attached in said openings in said plate and their lower ends attached to said main cable at opposite sides of and spaced from said rod.

1,682,289. HAIR-CUTTING DEVICE. PAUL KVIST, Seattle, Wash. Filed Oct. 7, 1926. Serial No. 139,994. 4 Claims. (Cl. 30—9.)



1. A hair cutting device comprising a contractile handle, a blade disposed in the plane of the handle, and spring elements connecting both ends of the blade with one end of the handle.

1,682,290. CONNECTION DEVICE SPECIALLY FOR JEWELRY. ADOLF KUHNLE, Neuenburg, Germany. Filed Sept. 6, 1927, Serial No. 217,844, and in Germany Sept. 13, 1926. 1 Claim. (Cl. 24—230.)



A connecting device specially for jewelry purposes, consisting of a capsule composed of two separate halves, a pivot axle in said capsule halves, two halves of a knob fixed

on the outer surface of said capsule halves one at each of two opposite points close to the edge of the capsule half, and a spiral spring in said capsule halves one end of said spring attached to one capsule half the other end attached to the other capsule half and making said capsule halves rotate around said pivot axle to move one half of each knob away from the corresponding other knob half so that said capsule halves have to be rotated in opposition to the action of said spring to bring the two halves of the knobs together to insert the whole knob into a corresponding hole of the element to be connected.

1,682,291. GLAZING SYSTEM. LOUIS LANE, Habana, Cuba. Filed Aug. 1, 1925. Serial No. 47,617. 4 Claims. (Cl. 108—16.)



1. An improved metal joint supporting bar for flat sheets of the class described, comprising a solid metal section having a web portion disposed at right angles to the plane of the supported sheets and between their edges, opposite basal flanges at the inner edge of the web of the bar for secondary sheet support and attachment, a pair of direct lateral sheet seating flanges extending at right angles either side from the web of the bar and integral therewith, said flanges being of a lesser width than the basal flanges, a groove formed in each side of the web adjacent to the said flanges and outwardly therefrom of sufficient depth to receive a strip of sealing material between the edge of the supported sheet and the bottom of the groove, said groove terminating outwardly a distance inward from the outer edge of the bar, the outer thicker edge portion of the bar being rectangular in cross section with its sides parallel to the plane of the web, of a minimum metal thickness between the sheet edges necessary to receive the attaching screws of the cover strip to the joint.

1,682,292. CELLULOSE DERIVATIVE AND PROCESS FOR PRODUCING SAME. LEON LILIENFELD, Vienna, Austria. Filed July 23, 1924, Serial No. 727,803, and in Austria Apr. 4, 1924. 13 Claims. (Cl. 260—152.)

1. Process for the manufacture of cellulose derivatives which dissolve in aqueous alkalies and are precipitated from their solutions in aqueous alkalies by the addition of an agent which neutralises the alkali even when the reaction is still alkaline and certainly when it is neutral and by treatment of their solutions in alkalies with alcohol, and freeing the precipitates so obtained from free alkali by washing with aqueous alcohol, yield products which are insoluble in water, which process comprises treating cellulose in the presence of an alkali with a monohalogen fatty acid in the absence of more than substantially 20 parts by weight of absolute alcohol to every 100 parts by weight of water present.

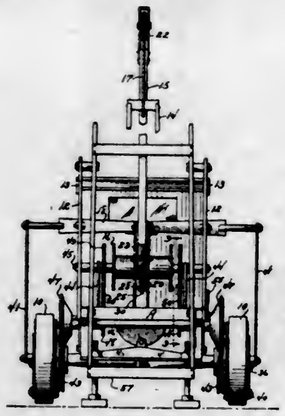
1,682,293. ARTIFICIAL MATERIAL AND PROCESS FOR MAKING SAME. LEON LILIENFELD, Vienna, Austria. Filed July 23, 1924, Serial No. 727,801, and in Austria Apr. 4, 1924. Renewed July 16, 1928. 13 Claims. (Cl. 18—54.)

1. A process for the manufacture of artificial materials, which comprises bringing a solution in an alkali of a cellulose-hydroxy-paraffin-monocarboxylic acid insoluble in water into the form of an artificial material and then treating it with a suitable precipitating agent.

1,682,294. CELLULOSE DERIVATIVE AND PROCESS FOR PRODUCING SAME. LEON LILIENFELD, Vienna, Austria. Filed July 23, 1924, Serial No. 727,804, and in Austria Apr. 4, 1924. 6 Claims. (Cl. 260—152.)

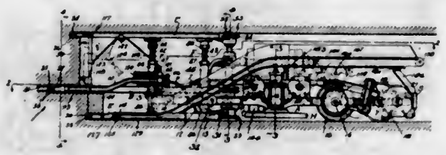
1. A process for the manufacture of cellulose derivatives, which dissolve in aqueous solutions of alkalies and are precipitated from such solutions by the addition of reagents which neutralize the alkali, even when the reaction is still alkaline but certainly when it is neutral, and which by mixing their alkali solutions with alcohol and freeing the precipitates so obtained from free alkali by washing with aqueous alcohol yield products which are insoluble in water, which process comprises treating cellulose with a compound containing the halogen containing radical of a monohalogen fatty acid in the presence of an alkali and of an alcohol, using not more than 0.5 molecular proportion of the monohalogen fatty acid radical for each molecular proportion of the caustic alkali.

1,682,295. WELL-DRILLING MACHINE. ADAM L. LITZNER, Allenville, Mich. Filed Oct. 1, 1926. Serial No. 138,916. 5 Claims. (Cl. 255—7.)



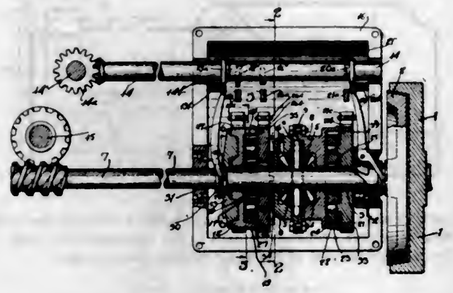
1. In a well drilling machine, a motor operated wheeled frame, a boom pivotally mounted thereon and adapted to be elevated for use, a reciprocating beam associated with said boom,, a pulley on said beam, a drum, a tool operating cable leading from the drum and trained over said pulley, means for operating said beam from the wheels of the frame, means for jacking said wheels above the ground, and means driven from said whels for rotating said drum for the purpose specified.

1,682,296. CHAIN HYDRAULIC MINING MACHINE. WALTER W. MACFARREN, Pittsburgh, Pa. Filed Nov. 3, 1915. Serial No. 59,377. 53 Claims. (Cl. 262—5.)



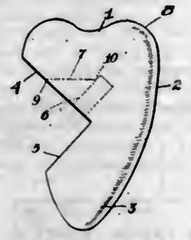
1. In a mining machine, a frame, a cutter bar carried thereby, a second cutter bar also carried by said frame and being wider than said first cutter bar, means for feeding the cutter bars into the coal, and dislodging means carried by said frame and operating in the kerf cut by the wider cutter bar for dislodging the coal between the kerfs cut by the two cutter bars.

1,682,297. VEHICLE SPEED CONTROL. JAMES V. MARTIN, Garden City, N. Y. Filed Mar. 1, 1926. Serial No. 91,409. 13 Claims. (Cl. 74—34.)



1. In a gearing of the kind described, a main shaft, a tubular drive shaft mounted on the forward end of the main shaft, a differential gear casing connected to the main shaft to revolve therewith, a second tubular shaft mounted on the main shaft to the rear of the first tubular shaft, differential gearing in said casing including bevel gears on the adjacent ends of the tubular shafts and idler bevels carried by the casing and meshing with the first bevels, a friction disc revoluble on the first tubular shaft, planetary gearing connecting said first tubular shaft and the casing and including idler gears on the friction disc, a brake band surrounding said disc, a lever to operate the brake band, and means to connect the second tubular shaft and the main shaft.

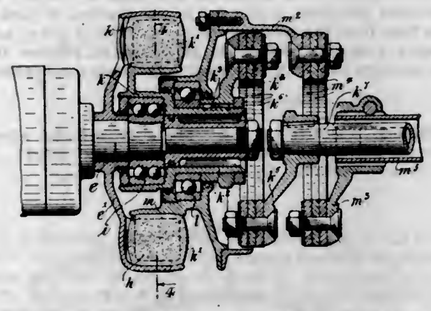
1,682,298. PORCELAIN-ROOT TEETH. HARRY A. MARX, Bywood, Pa., assignor to The Columbus Dental Manufacturing Company, Columbus, Ohio, a Corporation. Filed Aug. 3, 1922. Serial No. 579,379. 15 Claims. (Cl. 32—9.)



13. A tooth having an integral porcelain root and a porcelain masticating cusp and a recess in the lingual face of the tooth intersecting the body of the tooth and extending from the proximal side to the proximal side thereof, and toward the labial face of the tooth providing a wide flat bearing for a backing, the upper edge of which recess is disposed so as to be out of contact with the gum when the tooth is mounted in the mouth, and a post hole in one of the walls of said recess.

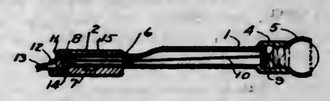
1,682,299. MULTIWHEEL DRIVE FOR VEHICLES. ALFRED F. MASURY and CHARLES FROESCH, New York, N. Y., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed July 29, 1925. Serial No. 46,695. 7 Claims. (Cl. 180—22.)

5. In a power apportioning means, a source of power including a shaft driven thereby, a plurality of driven members receiving divided power from the shaft, and yielding resilient means positioned between the source and



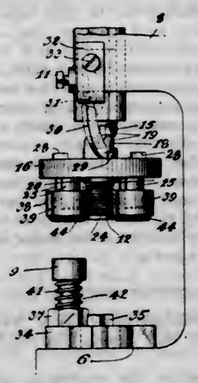
driven members for apportioning power from the source between the driven members differentially, said apportioning means comprising a single unit.

1,682,300. RAILWAY LAMP. FREDERICK E. MCLAUGHLIN, Everett, Wash. Filed Mar. 29, 1926. Serial No. 98,167. 2 Claims. (Cl. 240—59.)



1. In a railway lamp, a detachable lamp casing, a socket in which the lamp casing may readily be held, a spring latch in the said socket for readily holding the end of the said lamp casing, suitable contact points in the said socket adaptable to engage corresponding contact points on the end of the said lamp casing, suitable wires extending from the contact points at the end of the said lamp casing through the said casing and connecting to the lamp socket to light the lamp, and a suitable two wire cable extending from the contact points in the said socket, means for attaching the socket to a part of the body, a battery, suitable connections between the two wire cable and the battery, means for attaching the battery to a part of the body, and a suitable switch for lighting the said lamp as desired.

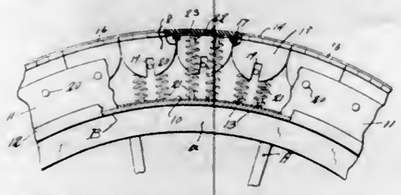
1,682,301. BUTTON-ASSEMBLING DEVICE. MAX MENKIN, New York, N. Y. Filed Apr. 10, 1926. Serial No. 101,035. 6 Claims. (Cl. 79—5.)



1. In a device of the character described, a pair of lower die members, an axially movable rod, a head loosely mounted on said rod, means yieldingly resisting movement

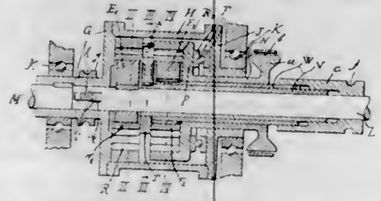
of the head relative to said rod, clutch means normally holding said head against rotative movement on the rod, spaced die members carried by said head, and means directly coacting with means on said head at the end of the axial movement of said rod in one direction to release the head from the holding action of the clutch means and impart a partial rotation to said head to position the die members thereon with respect to the lower die members.

1,682,302. CUSHION TIRE. IRWIN W. MILLER, Allentown, Pa. Filed Feb. 18, 1928. Serial No. 255,471. 3 Claims. (Cl. 152—S.)



1. A cushion tire of the character described comprising an annular base having side flanges, an annular rim formed of a plurality of interconnected hinged sections, each section having side members extending inward within the side flanges of the base portion and rockingly connected thereto, and compression springs disposed between the base and tread portion and urging the tread portion outward.

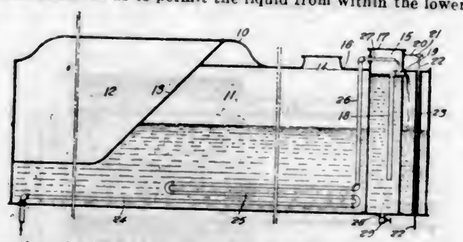
1,682,303. HYDRAULIC CHANGE-SPEED GEARING. STEFFEN MÖHL, Copenhagen, Denmark. Filed Mar. 31, 1922. Serial No. 548,553, and in Denmark Apr. 9, 1921. 3 Claims. (Cl. 60—53.)



2. Hydraulic gearing device, comprising a driving shaft, a gear case mounted for rotation with said driving shaft, a driven shaft, an eccentric disc carried by said driven shaft, a rotary pump of the gear wheel type having an outer member firmly connected to the gear case and an inner member journalled on said eccentric disc, a tubular shaft disposed in concentric relation with said driven shaft, an eccentric disc carried by said tubular shaft, a rotary motor of the gear wheel type having an outer member normally held stationary and an inner member journalled on said last eccentric disc, a second tubular shaft disposed in concentric relation to said driven shaft, a member secured to said last tubular shaft and disposed between said pump and motor and adapted to transfer pressure fluid from the pump to the motor, and means for altering the position of the inner member of the motor relatively to the transferring member and the position of the latter relatively to the inner member of the pump.

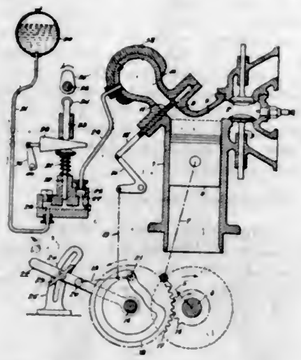
1,682,304. OIL SEPARATOR. OLAN H. NANCE, Baltimore, Md. Filed Oct. 8, 1927. Serial No. 224,984. 3 Claims. (Cl. 210—51.)

1. In an oil separator, the combination of a locomotive tender tank, having a main water compartment, a plurality of longitudinally extending coils located within the main water compartment for cooling the condensate, a pipe arranged to permit the liquid to flow into the condensate reservoir, and an overflow pipe arranged with respect to said reservoir as to permit the liquid from within the lower



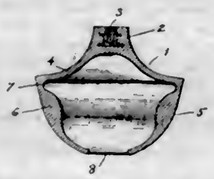
portion of said reservoir to pass upwardly through the overflow pipe and overflowing at a point substantially close to the uppermost end of the main water compartment.

1,682,305. INTERNAL-COMBUSTION ENGINE AND METHOD FOR OPERATING SAME. LARS G. NILSON, Hoboken, N. J. Filed Sept. 27, 1921. Serial No. 503,549. 5 Claims. (Cl. 123—1.)



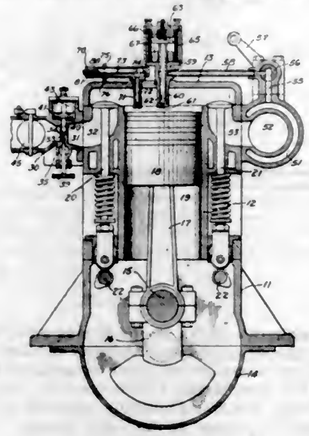
1. The combination with an internal combustion engine provided with a cylinder, piston, and means for supplying the fuel to and exhausting said cylinder, of a closed chamber connected with the engine cylinder adjacent the combustion space, a valve for closing said chamber from communication with said cylinder, and means for closing said valve just before the products of combustion are exhausted from said cylinder and for opening said valve just before ignition occurs.

1,682,306. TANK VALVE. ROBERT M. PIERSON, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Nov. 18, 1926. Serial No. 149,153. 2 Claims. (Cl. 4—56.)



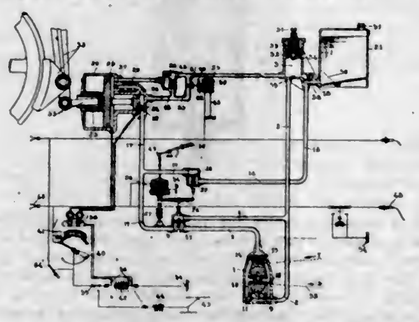
1. A hollow, buoyant tank valve comprising an upper portion, and a soft-rubber lower portion connected to the outer edge of said upper portion, said lower portion being highly flexible and elastic throughout and including a thickened reinforcing belt located in an intermediate zone of said lower portion and lying wholly below its region of greatest diameter at the junction with said upper portion.

1,682,307. INTERNAL-COMBUSTION ENGINE. LEWIS E. PORTER, Los Angeles, Calif.; Jessie Beryle Porter executrix of said Lewis E. Porter, deceased. Filed June 21, 1921. Serial No. 479,199. 8 Claims. (Cl. 60—16.)



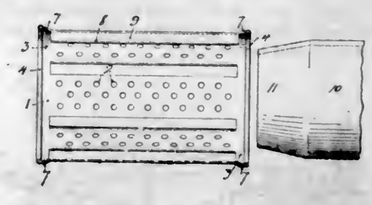
8. In an engine, the combination of: a cylinder; a piston fitting and moving in said cylinder; adjustable and thermostatically controlled means for introducing an explosive charge into said cylinder; means for firing said charge; adjustable and thermostatically controlled means for introducing water into said cylinder at a predetermined temperature limit; a thermostat actuated by the heat of said engine; and timing means actuated by said thermostat to render said explosive charge introducing means and said water introducing means respectively effective and ineffective in alternate cycles of said engine, after said predetermined temperature limit has been reached.

1,682,308. HYDRAULIC BRAKE. HENRI SCHAEDE, Liege, Belgium. Filed July 28, 1926, Serial No. 125,531, and in Belgium Aug. 4, 1925. 4 Claims. (Cl. 303—10.)



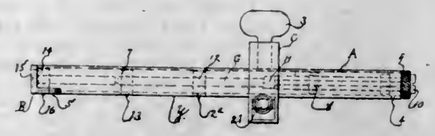
1. In a brake apparatus, the combination substantially as set forth of a pump to be operated continuously from a car-axle and to deliver liquid always in the same direction whatever may be the direction of rotation of the car, an exhaust pipe connecting said pump to a casing provided with a controlling valve, a supply and release pipe leading from said valve casing to two brake cylinders, pistons of different size fitted in said cylinders and associated together, a retracting spring bearing on said larger piston, connected to the rigging of the car, a reservoir at constant volume and a compensating reservoir supplying the brake liquid, a valve controlling the communication between said reservoirs, controlled means for connecting said brake cylinders and said pump to said reservoirs, means for driving electrically the controlling valve.

1,682,309. SPOOL. MORRIS SCHOENFELD, Zurich, Switzerland. Filed Jan. 22, 1926. Serial No. 83,166. 14 Claims. (Cl. 242—110.)



1. A spool on which thread or yarn may be wound and while on the spool subjected to dyeing or other treatment while in a slack condition on the spool, comprising a cylindrical body, a plurality of retractible members, adapted to be extended from said body to receive the thread or yarn thereon and to retract to permit the wound thread or yarn to slacken.

1,682,310. COMBINATION GAUGE FOR MECHANICS. FREDERICK W. SHAKESHAFT, Rochester, N. Y. Filed May 22, 1926. Serial No. 110,887. 4 Claims. (Cl. 33—44.)



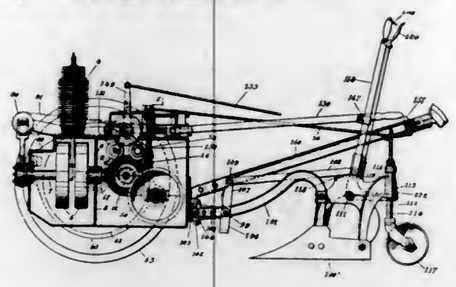
1. A combination gauge consisting of a slotted tubular stock having a marking point mounted thereon, a carrying frame longitudinally mounted within said stock, an adjustable point mounted on said carrying frame and projecting through the slot in the stock, an outer threaded spindle working within the tubular stock and having threaded connection with one end of the carrying frame, an inner spindle passing through and capable of rotation within the outer spindle, and having a threaded extension projecting beyond the outer spindle, the outer end of the inner spindle rotating within an end wall of the carrying frame, a cylindrical nut mounted on the inner spindle and having a marker thereon projecting through the slot in the stock, a marker upon the end wall of the tubular stock, and projecting through the slotted opening of the stock, a fence adjustably mounted on the stock, an arm slidably and adjustably mounted in the fence, transversely to the stock, and a marking disk pivotally mounted on the end of said arm.

1,682,311. TRACTOR FOR AGRICULTURAL IMPLEMENTS. WILLIAM F. SMITH, Brooklyn, N. Y., assignor of one-half to Herman A. Schatz, Poughkeepsie, N. Y. Filed Dec. 7, 1921. Serial No. 520,704. 12 Claims. (Cl. 97—50.)

1. In combination, a tractor having a motor shaft and two wheels, means for connecting said wheels with said shaft to cause their rotation in a forward or backward direction, a three armed lever, a screw, a block mounted thereon and engaging one arm of said lever, connections between the other two arms of said lever and said wheels, another screw, a block, said block mounted on said other screw, an agricultural implement attached to said tractor, a lever for raising and lowering said implement connected to the last mentioned block, and driving means including a common connection interposed between said shaft and screws.

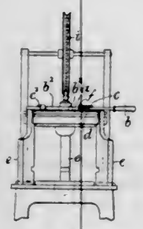
6. In a tractor having a casing, a motor shaft with one end mounted in the forward part of the casing, a bevelled gear carried by the other end of said shaft, two bevelled gears cooperating with said gear, a second shaft mounted

back of the centre line of said casing at right angles to said motor shaft and carrying said two bevelled gears, an agricultural implement, a pivoted connection between said implement and the rear end of said casing, a lever for manually raising and lowering said implement, and means including gears through which said lever is operatively connected with said second shaft.



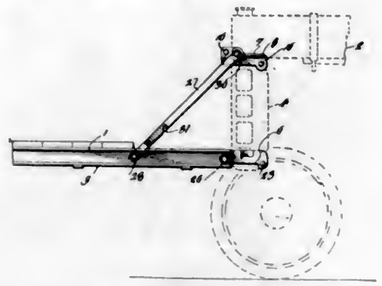
12. In combination, a motor driven tractor having oppositely revolving transmission gears and a pair of drive wheels, means for operatively interconnecting said drive wheels with either of said gears, an agricultural implement attached to said tractor, a shaft two friction wheels attached to said shaft, a collar freely rotatable on said shaft, two angularly displaced levers projecting from said collar, a freely rotating friction disc carried by each one of said levers, two screw threaded shafts having cooperating screw blocks, means actuated by said shaft for rotating said screw threaded shafts, means responsive to travelling of one of said screw blocks in one direction for raising one and lowering the other of said drive wheels and means responsive to travelling of the other of said screw blocks in one direction for raising said implement, said forementioned means being responsive to travelling of the said screw blocks in the opposite directions for reversing the above mentioned operation, means controllable at will for rocking said collar to interpose one or the other friction disc between a gear wheel and a friction wheel, movable stops for limiting the movement of one of said screw blocks and automatic means controlled by said stops for rocking said collar.

1,682,312. HYDRAULIC AND OTHER PRESSES. ERNEST SYDNEY, London, England, assignor to James Robinson & Sons (Romiley) Ltd., Stockport, England. Filed July 2, 1926. Serial No. 120,102, and in Great Britain Oct. 1, 1925. 3 Claims. (Cl. 223—31.)



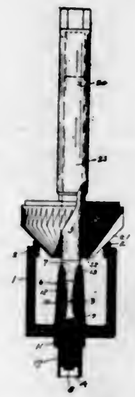
1. In hydraulic and other presses, the combination with the upper movable plate, guide pillars therefor and the operating lever, of brackets provided on the said plate for engaging the said lever and a spring carried by one of the said brackets, operatively related to the lever to admit of angular movement thereof and to automatically position the said lever on the upper end of said guide pillars upon the attendant releasing the same after effecting the opening of the press.

1,682,313. ATTACHMENT FOR TRACTORS. CHARLES H. TURNER, Statesville, N. C. Original application filed Dec. 6, 1924, Serial No. 754,373. Divided and this application filed Mar. 7, 1927. Serial No. 173,467. 9 Claims. (Cl. 280—150.)



1. In combination with a tractor having a forwardly arranged radiator structure including upper and lower flanges, clamps directly secured to the upper flange, clamps directly secured to the lower flange, a table pivotally connected to the lower clamp, and braces pivotally connected to the table and detachably connected to the upper clamps.

1,682,314. CLAMPING DEVICE FOR VALVE-SEAT-REAMER PILOTS. ROBERT E. WALTON, Tacoma, Wash. Filed Oct. 31, 1927. Serial No. 229,951. 4 Claims. (Cl. 90—12.5.)

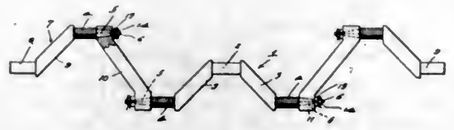


1. A clamping device for valve-seat reamer pilot comprising a pilot having a cylindrical upper portion and a reduced screw-threaded stem; with a tapered shoulder joining the said upper part to the said stem; an expanding bushing in contact with said shoulder and lying in the valve-stem-guide; a nut on the stem and engaging the valve-stem-guide to draw the said shoulder into the bushing to expand the bushing at the shoulder, whereby the top of the stem is centered in the valve-stem-guide and the pilot is clamped therein; and expanding means engaging the lower end of the valve-stem-guide whereby the lower end of said stem is centered therein.

1,682,315. ENGINE CRANK-SHAFT AND CONNECTING-ROD CONSTRUCTION. PHILIP H. WENZL, Valley Falls, Kans. Filed Mar. 12, 1927. Serial No. 174,944. 3 Claims. (Cl. 74—38.)

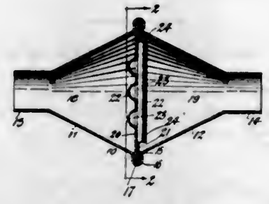
1. In a crank shaft structure of the class described, an end section comprising an intermediate portion, an angularly disposed journal at one end thereof, a screw-threaded

pin at the opposite end and also disposed at an angle to said intermediate portion, said pin having its outer end formed in a reduced and tapered extension of polygonal cross-section carrying a further reduced screw-threaded shank, and



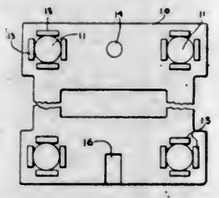
a connecting member having an offset end provided with a hole through which said extension extends, said hole being of a shape corresponding to said extension, said shank extending beyond one end of said hole, and a restraining nut carried by said shank.

1,682,316. MUFFLER. JOHN WARD WILLIAMS, Buffalo, N. Y. Filed Nov. 1, 1927. Serial No. 230,253. 3 Claims. (Cl. 137—160.)



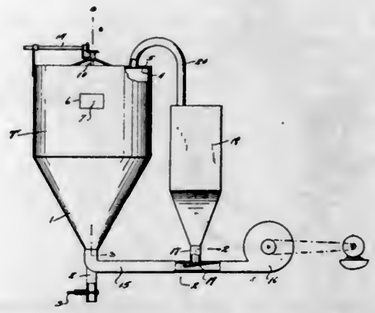
1. A muffler comprising a casing having an inlet and an outlet for the exhaust, and a baffle arranged within said casing between said inlet and outlet including two transverse plates having flat sides opposing each other and edges mounted on the wall of said casing and forming inlet and outlet chambers therein, and each of said plates being provided with a laterally projecting hollow bead, the bead of one plate being arranged at an angle relative to the bead of the other plate, and each bead opening at one end into one of said chambers and communicating between its ends with the other chamber.

1,682,317. TURBINE SUPPORT. ROBERT C. ALLEN, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 4, 1925. Serial No. 66,833. 13 Claims. (Cl. 253—39.)



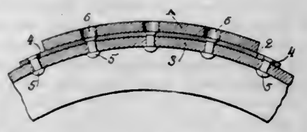
1. Means for supporting a turbine comprising spherically surfaced bearing members at each end of the turbine for supporting the weight thereof, a centrally located fixed retainer at one end of the turbine and a centrally located sliding connection between the turbine and the stationary member at the opposite end.

1,682,318. TREATMENT OF FOOD MATERIALS. FRANCIS C. BEARDSLEE, Los Angeles, Calif., assignor to said Beardslee, B. M. Huffine, and J. I. Huffine, Joint Trustees, Los Angeles, Calif. Original application filed Oct. 14, 1926, Serial No. 141,618. Divided and this application filed Dec. 15, 1927. Serial No. 240,296. 6 Claims. (Cl. 99—2.)



6. An apparatus for subjecting food material to irradiation by ultra violet rays comprising a tank to receive the material to be treated, a bin, a conduit leading from the upper portion of the tank and discharging within the bin, a conduit affording communication between the lower portion of the bin and the tank, means for forcing an air blast through the second conduit into the tank to draw the material within the bin into the tank and to maintain in suspension material in the tank, a window in a wall of the tank to permit discharge therethrough of ultra violet rays to within the tank, and a partition within the second conduit upon which the bin directly discharges, said partition extending on a downward and forward incline in the direction of travel of the air blast.

1,682,319. FACING MEMBER FOR BRAKES AND THE LIKE. ALEXANDRE BLUHM, Paris, France, assignor to Societe Anonyme Francaise du "Ferodo", Paris, France. Filed Dec. 31, 1926, Serial No. 158,375, and in France Jan. 13, 1926. 3 Claims. (Cl. 188—249.)

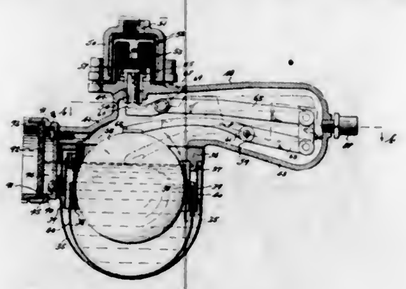


3. A friction member comprising a metallic support and a friction facing which is secured to said support and whose composition comprises an artificial resin called synthetic resin the securing of the said facing on the support being obtained by the cementing process by means of the same resin.

1,682,320. ELECTRIC STEAM GENERATOR. CHARLES A. BREWER, Noroton Heights, Conn., assignor to Cannon Engineering Co., Brooklyn, N. Y., a Corporation of New York. Filed Oct. 24, 1924. Serial No. 745,594. 3 Claims. (Cl. 137—101.)

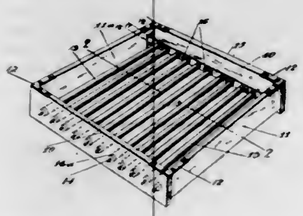
1. In a feed water reservoir for balanced communication with a steam boiler to be served thereby, a water admission valve at the upper end of said reservoir for delivering water into the latter from a source of supply, a free float member within said reservoir, and a lever

mechanism engageable by said free float member and actuated by upward thrust thereof to close said water admission valve, said lever mechanism comprising a primary lever having a fixed fulcrum, one end of said primary lever being located in the path of movement of said float mem-



ber, a secondary lever having an adjustable fulcrum, one end of said secondary lever operatively engaging said water admission valve, and the opposite ends of said primary and secondary levers being pivotally interconnected by a link.

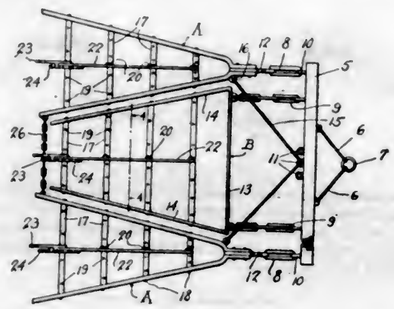
1,682,321. EGG-TURNING TRAY. MICHAEL CYRIL BYRNE, Revesby, via Bankstown, New South Wales, Australia. Filed Feb. 15, 1926. Serial No. 88,475. 1 Claim. (Cl. 119—44.)



An egg turning tray of the character described including, a rectangular frame composed of side and end members, the end members terminating short of the lower edge of the side members and the side members being provided with opposed longitudinal grooves, bearing plates secured to the side members over the grooves provided with a series of opposed openings, extensions integral with and projecting angularly from the ends of the bearing plates and anchored to the adjacent surface of the end members, a series of parallel rollers constituting the bottom of the tray and having trunnions engaged in the opposed openings in the bearing plates, the lower surfaces of the rollers being positioned in a plane above the lower edge of the side members and beneath the plane of the lower edge of the end members so that the under surfaces thereof may be readily engaged and rotated when it is desired to turn the eggs which are adapted to rest on the rollers.

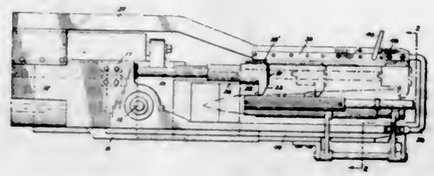
1,682,322. LISTER CORN HARROW. JOHN H. CAMPBELL, Frankfort, Kans. Filed June 2, 1927. Serial No. 196,026. 1 Claim. (Cl. 55—84.)

A harrow of the class described comprising a cross beam, a pair of V-shaped frames, a U-shaped frame disposed between the V-shaped frames, links engaged with the apices of the V-shaped frame and engaged with the cross beam at spaced points, rods pivotally engaged with the apices of the V-shaped frames and the center of the beam, said U-shaped frame having its sides converging rearwardly toward each other, chains connecting the bight portion of the U-shaped frame with the cross beam, said U-shaped frame being shorter than either of said V-



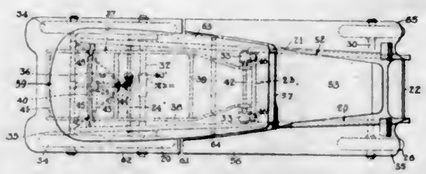
shaped frames, and a chain connecting the extremities of the inner legs of the V-shaped frames and extending across the rear of the U-shaped frame.

1,682,323. MECHANICAL LOADER FOR CANNON. THOMAS A. CONLON, Silver Spring, Md. Filed June 26, 1924. Serial No. 722,526. 16 Claims. (Cl. 89—47.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G. 757.)



14. A loading mechanism for cannon including projectile engaging members, one of said members actuated by the other member.

1,682,324. AUTOMOTIVE VEHICLE. GLENN H. CURTISS, Hialeah, Fla. Filed Aug. 8, 1925. Serial No. 48,922. 9 Claims. (Cl. 180—22.)



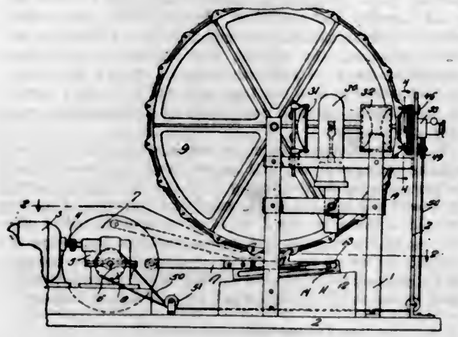
1. The combination, in a road vehicle, of a primary chassis, a secondary chassis including a chassis frame having three points of support, said points of support being substantially triangularly arranged, two forward and one behind, the two forward points of support being yieldable and disposed respectively at opposite sides of the longitudinal center line of said frame, and the single rear point of support being also yieldable and disposed in the longitudinal vertical plane of said center line.

1,682,325. TOOTHBRUSH. ANGELO D'AMICO and ABRAHAM L. GREENBERG, Stockton, Calif. Filed Apr. 29, 1927. Serial No. 187,551. 2 Claims. (Cl. 15—176.)



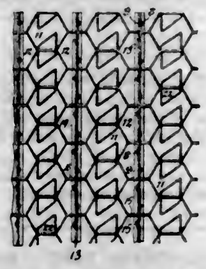
1. A tooth brush comprising a handle member, a tang on one end of the handle, a bristle holder, and a metal sleeve open on one end and extending longitudinally of the holder to removably receive the tang; the outer side edges of the sleeve being disposed at opposed slopes relative to each other and fitting into a similarly shaped groove cut in the back of the holder.

1,682,326. PROJECTION APPARATUS. SID H. ELIASON, Portland, Oreg. Filed Aug. 30, 1926. Serial No. 132,556. 9 Claims. (Cl. 88—27.)



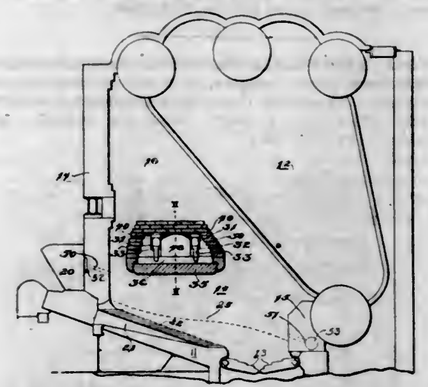
6. In a projecting apparatus, and in combination, a projecting lens, an element carrying a subject to be projected, said element having spaced apertures in a series about the subject bearing portion thereof, light means, means carrying said element, and light obscuring means movable between the projecting lens and said element and adapted to momentarily cut off the light from the ens and by cooperation with the apertures of said element produce a flickering or light-chasing border about the subject projected.

1,682,327. RADIATOR CORE. JOHN M. FEDDERS, Buffalo, N. Y., assignor to Fedders Manufacturing Company Inc., Buffalo, N. Y., a Corporation of New York. Filed Dec. 16, 1926. Serial No. 155,267. 6 Claims. (Cl. 257—130.)



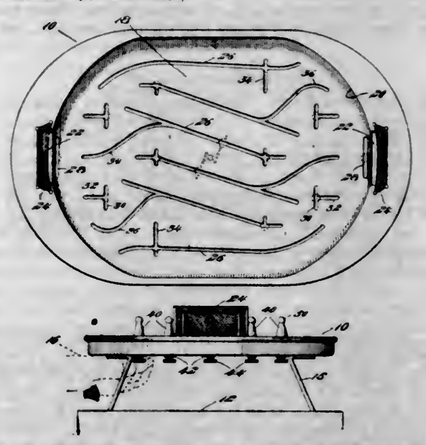
1. A radiator core having a plurality of water passages and a plurality of air tubes arranged between said water passages, each of said water passages having opposing walls formed between two strips of sheet metal which have their opposite longitudinal edges off-set to form flanges engaging one another and their intermediate walls spaced from each other, and each of said strips being provided at intervals with laterally projecting loops forming air tubes, and the air tubes of one of said strips being arranged in the space between similar air tubes of an adjacent strip, and the flanges of adjacent wall strips being provided with interlocking concavo-convex beads.

1,682,328. FURNACE STRUCTURE. ROBERT A. FORESMAN, Moore, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 12, 1923. Serial No. 631,665. 4 Claims. (Cl. 110—44.)



1. In a furnace having the usual front, side and bridge walls, the combination with an underfeed stoker of the multiple retort type having a generally inclined fuel bed from the front wall to the bridge wall, of a refractory baffle spaced from the fuel bed, the front wall and the bridge wall in such manner that the furnace gases are directed from the fuel bed in two distinct paths of travel, one path extending forwardly and upwardly between the front wall and the baffle, and the other path extending upwardly between the bridge wall and the baffle and means for injecting jets of oxygen-bearing fluid into the gases in the said other path.

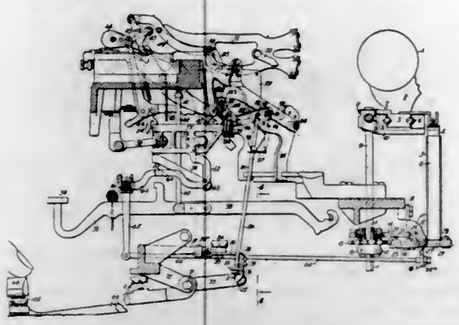
1,682,329. GAME DEVICE. JOHN D. GLAVIN, Providence, R. I. Filed June 20, 1927. Serial No. 200,142. 15 Claims. (Cl. 273—85.)



1. A game apparatus, comprising, in combination, a board arranged to simulate a hockey rink having a surrounding fence, a goal with a goal net at each end thereof

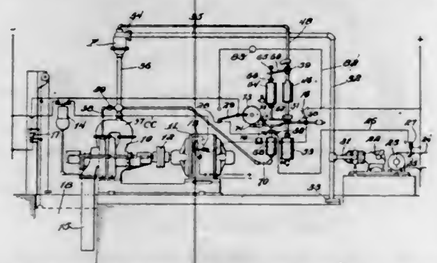
and irregular slots therein, one for each player, a plurality of pieces in simulation of players having the lower ends thereof projecting through said slots and loosely secured to each side of said board against vertical movement, capable of horizontal movement in said slots having means attached to the upper and the lower ends thereof to permit horizontal and rotary movement on manipulation thereof, a hockey stick projecting rigidly laterally from each player having the lower edge of the blade thereof abutting the rink, and a hockey puck adapted to be pushed by said pieces and shot on rotation thereof, the slots being so arranged as to substantially cover the normal course of each player's position during play and the slots, pieces and sticks being of a size, and so arranged as to permit at least one player to reach the puck on any portion of the rink.

1,682,330. TYPEWRITING MACHINE. GEORGE G. GOING, Middletown, Conn., assignor, by mesne assignments, to Remington Typewriter Company, a Corporation of New York. Filed Nov. 4, 1926. Serial No. 146,207. 16 Claims. (Cl. 197—82.)



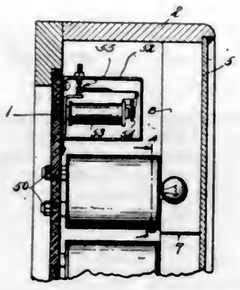
1. In a typewriting machine, the combination of a power impelled carriage, escapement mechanism therefor, a universal bar which alone controls said escapement mechanism, a printing key, a space key which controls the universal bar, and means that enable said universal bar to be actuated by said printing key to cause an advance of the carriage when the space key is maintained depressed.

1,682,331. PUMP SYSTEM. CHARLES H. GOYNE, JOHN G. GOYNE, ALBERT F. GOYNE, and JOHN H. DOUGHERTY, Ashland, Pa., assignors to Goyne Steam Pump Company, Ashland, Pa., a Corporation of Pennsylvania. Filed Dec. 24, 1925. Serial No. 77,490. 22 Claims. (Cl. 103—25.)



1. In a pumping system, a centrifugal pump, a suction priming pump therefor, means for starting the priming pump, suction operated means for starting the centrifugal pump, means for transferring the suction of the priming pump to said means when the centrifugal pump is primed, means for stopping the centrifugal pump after a predetermined period of operation and means operated by the generation of operating pressure in the centrifugal pump for rendering said stopping means inoperative.

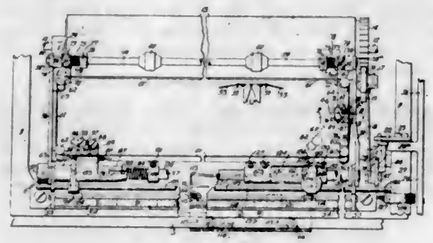
1,682,332. ANNUNCIATOR. OTTO HAMLIN, Quincy, Mass. Filed July 22, 1924. Serial No. 727,439. 2 Claims. (Cl. 177—326.)



1. An annunciator device having a removable lamp supporting casing comprising spaced heads, and a frame disposed between the heads, the frame having an elongate member supporting an electromagnet and a housing partially embracing the magnet, said housing having spaced aligned bearings, an armature mounted upon a pivot member journalled in said bearings, and a stop member carried by the housing to limit movement of the armature away from the magnet.

2. An annunciator device having a removable lamp supporting casing provided with spaced heads, a frame disposed between the heads comprising a U-shaped support having its closed end secured to one head and the ends of its legs secured to the other head, an electromagnet mounted upon one leg of the support, a housing partially embracing the magnet, an armature pivotally supported by the housing, and oppositely directed ears carried by the housing for limiting movement of the armature away from the magnet.

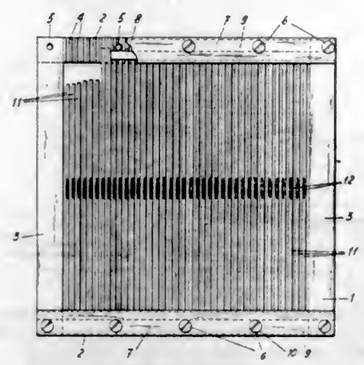
1,682,333. TYPEWRITING MACHINE. FREDERICK A. HART, New Britain, Conn., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Aug. 8, 1925. Serial No. 48,992. 49 Claims. (Cl. 197—153.)



1. In a typewriting machine, the combination of a carriage, a platen thereon, a paper bail controlling the paper through the length of the platen, said bail being movably mounted on said carriage and co-operative with the platen, a carriage carried inking ribbon wholly supported on said movable paper bail, and a feeding device engaging directly with said ribbon and mounted on said bail.

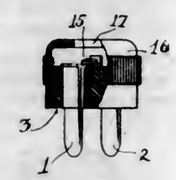
1,682,334. NEEDLE-LEASE REED. KONRAD HAUSER, Horgen, Switzerland. Filed Aug. 20, 1927, Serial No. 214,331, and in Switzerland Aug. 21, 1926. 1 Claim. (Cl. 28—40.)

A needle-lease reed, comprising in combination a rigid frame consisting of two horizontal bars having in their outer surface a number of vertical grooves of semicircular cross section, vertical stays rigidly connecting said horizontal bars, two clamping bars having each a longitudinal groove in the inner surface, a strip of rubber in said longitudinal groove of each clamping bar, needles having each an eye at the middle inserted with the ends each in one vertical



groove of said horizontal bars the needles at the left and right of the central needles being turned so that their eyes stand at a certain angle to the eyes of said central needles, and screws for removably fixing said clamping bars on said horizontal bars so that they securely hold said needles in the vertical grooves of said horizontal bars.

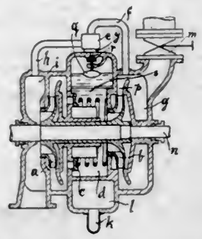
1,682,335. ATTACHMENT PLUG. WILLIAM F. HENDRY, Ossining, N. Y., assignor to Manhattan Electrical Supply Company, Incorporated, New York, N. Y., a Corporation of Massachusetts. Filed Apr. 6, 1925. Serial No. 21,049. 3 Claims. (Cl. 173—361.)



1. In an attachment plug, a block of insulating material having two holes, contact-making members of resilient material projecting through said holes, each of said members having a split tubular portion projecting beyond the lower surface of said block and having a rounded point with a continuous tip, a relatively large split tubular portion within said block, a shoulder separating said tubular portions forced against the block around the hole, a rim and a leg projecting from the last mentioned tubular portion and lying flat against the upper surface of said block, and a terminal screw passing through said leg and into said block.

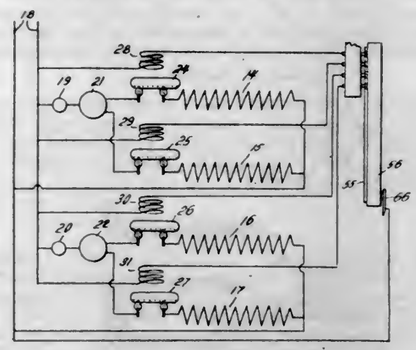
1,682,336. SUCTION DEVICE FOR MULTISTAGE CENTRIFUGAL PUMPS. ROBERT HENTSCHEL, Bremen, Germany. Filed Mar. 18, 1926, Serial No. 95,591, and in Germany Apr. 11, 1925. 7 Claims. (Cl. 103—108.)

1. A multistage centrifugal pump having a suction stage, a compression stage provided with a valved outlet, a flow passage between said stages, a hydraulically operated jet air pump operative under water pressure produced in said pressure stage, conducting connections between said jet air pump and said suction and compression stages, means for opening or closing said connections for opening or closing communication between said jet air pump and said suction



and pressure stages, and a valve normally closing said flow passage and adapted to open under a predetermined pressure in the suction stage.

1,682,337. AUTOMATIC COOKING. FRANK W. HEWITT, Arlington, Mass., assignor, by mesne assignments, to Buckwalter Stove Company, Royersford, Pa., a Corporation of Pennsylvania. Filed Nov. 8, 1927. Serial No. 231,822. 6 Claims. (Cl. 219—20.)

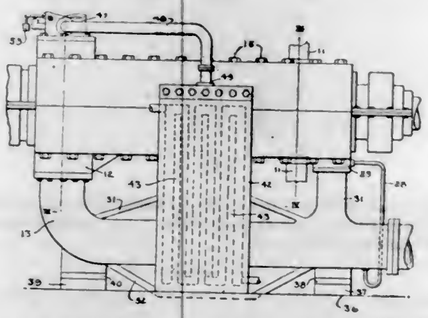


5. In combination in electric cooking apparatus, a plurality of electric heating elements, independent relays for closing and opening the circuit through each of said heating elements independently of the temperatures thereof, a motor mechanism, a replaceable record of a specific cooking operation receivable and driven by said motor mechanism, and means cooperating with said record for independently actuating said several relays.

1,682,338. STEAM TURBINE. FRANCIS HODGKINSON, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 22, 1925. Serial No. 32,150. 27 Claims. (Cl. 60—64.)

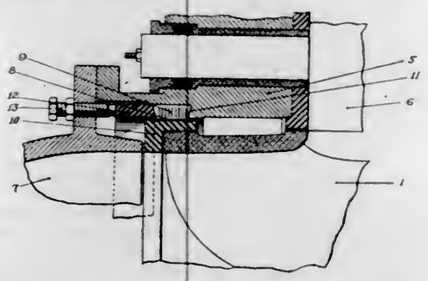
12. An elastic fluid turbine having a casing, an exhaust pipe secured to the casing near one end thereof, said exhaust pipe being disposed beneath the casing and extending longitudinally of said casing, a sliding connection near the opposite end of the casing engaging with a supporting member extending upwardly from the exhaust pipe, said sliding connection permitting relative longitudinal movement between the casing and the supporting member and preventing relative transverse movement therebetween, means for subjecting the supporting member to the temperature of the exhaust motive fluid whereby the expansion of the exhaust pipe and supporting member in a vertical direction due to temperature changes is transmitted equally to both ends of the casing, a foundation, a pedestal at each side of the turbine intermediate its ends and resting on the foundation, hollow links secured to the pedestals and

forming a cradle support for the exhaust pipe, said hollow links being rigid longitudinally and flexible transversely of the longitudinal axis of the turbine, means for passing motive fluid through the hollow links thereby compensating for the expansion of the exhaust pipe in a vertical direction and maintaining the longitudinal axis of the



turbine in substantially the same horizontal plane, shoes provided on the exhaust pipe opposite each end of the turbine, and guideways carried by the foundation and cooperating with the shoes for permitting relative longitudinal movement between the exhaust pipe and the foundation and preventing relative transverse movement therebetween.

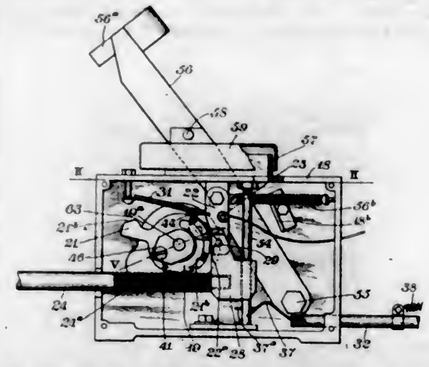
1,682,339. ADJUSTABLE SEAL RING. ELY C. HUTCHINSON, Oakland, Calif., assignor to The Pelton Water Wheel Co., San Francisco, Calif., a Corporation of California. Filed July 1, 1924. Serial No. 723,546. 2 Claims. (Cl. 286—7.)



1. A turbine or like machine having relatively moving and stationary parts and sealing elements with closely adjacent surfaces forming running joints between said moving and stationary parts, one of said sealing elements characterized by having a relatively smooth sealing face when not under compression and further characterized by having embedded inserts falling short of intersecting its sealing face to control its movement under compression, and means for acting on said sealing element at substantially right angles to its sealing face whereby its normally smooth running joint forming surface is distorted to provide a plurality of parallel spaced corrugations.

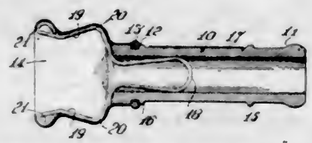
1,682,340. BATCH METER FOR CONCRETE MIXERS. GEBHARD JAEGER, Columbus, Ohio. Filed Sept. 20, 1926. Serial No. 136,498. 17 Claims. (Cl. 83—73.)

1. In combination with a rotary and tilting mixing drum, a charging means and a discharging means therefor, means for latching the discharging means including an arm with a pin thereon, a signal means, a metering means for the rotations of the drum including a worm gear and a worm separable with respect thereto actuated by the mixing drum, means carried with the worm gear for causing the actuation of the signal means upon a predetermined number of revolutions of the mixing drum, means carried with the worm gear consisting of a hollow cam having a recess in its



rim said cam adapted to engage said pin to hold the latching arm in drum latching position pending the operation of the signal means.

1,682,341. SIREN SQUAWKER. GEORGE B. KEPLINGER, Chicago, Ill. Filed Dec. 10, 1927. Serial No. 239,049. 12 Claims. (Cl. 46—46.)



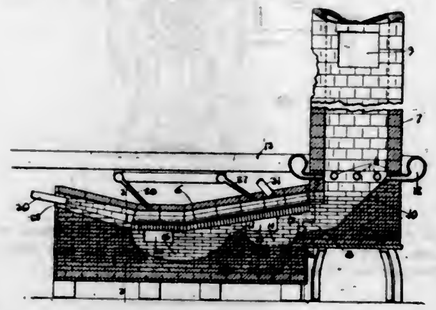
1. In a device of the class described, the combination with a tubular mouthpiece having a supporting member on the outer end thereof, of a piece of elastic flexible material stretched on said supporting member so as to produce a plane surface under tension extending in the direction of the air blown through the mouthpiece and beyond it.

1,682,342. LAMP. LUCAS KRAFT, Elizabeth, N. J. Filed Apr. 21, 1926. Serial No. 103,438. 1 Claim. (Cl. 240—4.)



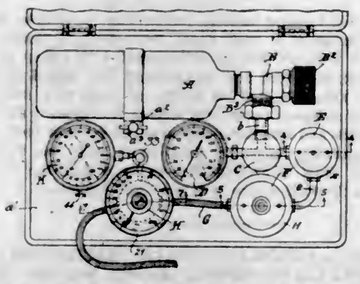
In combination with an adjustable lamp, including telescoping members and a table supported by one of said members, an adjustable shade support, associated with another of said members and comprising a hollow casing provided with a central slot, a rotary element lodged in the walls of said casing, a clamping member engaging said rotary element and passing through the slot of said casing, and adapted to engage the latter when said rotary element is at the desired position, shade supporting arms or frames extending from said rotary element and providing conduits, and lamp sockets provided at the ends of said arms.

1,682,343. SMELTING FURNACE. JAMES A. LANIGAN, Cincinnati, Ohio. Filed Aug. 15, 1927. Serial No. 212,891. 1 Claim. (Cl. 26—27.)



A smelting furnace comprising a structure of right angular shape consisting of a horizontal portion and a vertical portion, said horizontal portion containing hearths, said vertical portion containing the cupola, said cupola containing a fuel door above the bottom thereof and tuyères in its wall between the fuel door and the bottom, the bottom of the cupola sloping toward the horizontal hearth portion, a source of heat directed over the hearths from the end of the horizontal portion farthest from the cupola, and a source of heat directed over the region at the juncture of the horizontal and vertical portions, tuyères directed over the hearths and a strainer like wall affording communication between the cupola and the hearth portion.

1,682,344. APPARATUS FOR THE SUBCUTANEOUS INJECTION OF OXYGEN OR OTHER GASES. MAURICE LESIEUR, Paris, France. Filed Apr. 5, 1924, Serial No. 704,336, and in France Aug. 11, 1923. 3 Claims. (Cl. 128—184.)



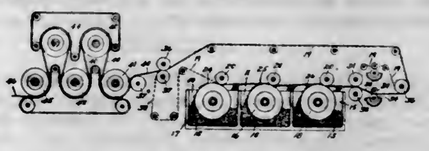
2. In an apparatus for subcutaneous injection of gas, a container adapted to contain a quantity of said gas under pressure, a hypodermic needle, connecting means leading from said container to said needle, said connecting means including a pressure reducer adapted to reduce the pressure of gas flowing to said needle to a predetermined low pressure, and a flexible tube interposed between said pressure reducer and said needle, the walls of said tube being of such strength that they will burst if the pressure of gas in the tube exceeds a predetermined amount.

1,682,345. HAIR-CURLING APPLIANCE. FRANCIS M. LITTLE, Youngstown, Ohio. Filed July 14, 1927. Serial No. 205,652. 22 Claims. (Cl. 132—32.)



1. A device of the class described comprising a pair of hair engaging members, one of said hair engaging members having a fluid conduit provided with an outlet, means for supplying a fluid heating means to said conduit, and a casing for enclosing said hair engaging members.

1,682,346. PAPER FABRIC. WILLIAM A. LORENZ, Hartford, Conn., assignor to The Otaka Fabric Company, Hartford, Conn., a Corporation of Connecticut. Substitute for application Serial No. 699,791, filed Mar 17, 1924. This application filed Jan. 5, 1926, Serial No. 79,504. Renewed Jan. 23, 1928. 2 Claims. (Cl. 92—39.)

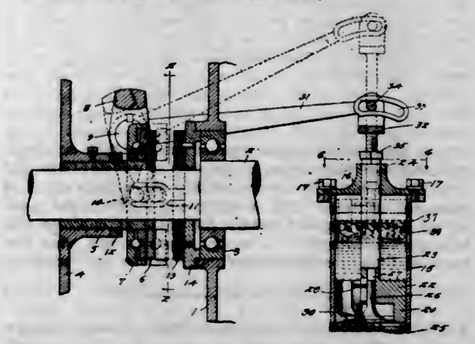


1. A paper fabric composed of a layer of sized pulp and one or more layers of unsized pulp, combined therewith, said combined web being roughened, by embossing or crinkling, thus forming a web of paper adapted for paper wash cloth purposes.

1,682,347. MANUFACTURE OF HYDROXY-ACID ESTERS. HOWARD W. MATHESON, Montreal, Quebec, and KENNETH G. BLAIKIE, Shawinigan Falls, Quebec, Canada, assignors to Canadian Electro Products Company, Limited, Montreal, Canada. Filed Jan. 11, 1926. Serial No. 80,625. 9 Claims. (Cl. 260—106.)

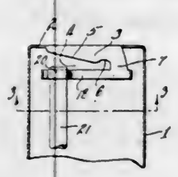
1. A process for the production of hydroxy acid esters with the exception of lactic acid esters in a single step, which comprises reacting together a cyanhydrin and an alcohol in presence of a mineral acid and water.

1,682,348. CLUTCH CONTROLLER. CLARENCE K. PORTER, Lansing, Kans., assignor of one-half to Catherine A. Porter, Tulsa, Okla. Filed Apr. 21, 1927. Serial No. 185,614. 3 Claims. (Cl. 192—109.)



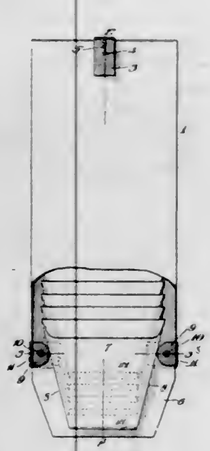
2. A clutch controller including a cylinder containing mercury and oil, a hollow piston within the cylinder, and a ported valve for the piston.

1,682,349. BRACING MEANS FOR TUBULAR FILLER MEMBERS. JAMES S. REID, Cleveland, Ohio, assignor, by mesne assignments, to The Eaton Axle & Spring Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 7, 1926, Serial No. 134,068. Renewed June 11, 1927. 6 Claims. (Cl. 220—40.)



1. In a tubular filler neck of the type having a flange portion provided with a cam surface and a stop projection and which is adapted to be closed by a closure having a locking projection for cooperation with said cam surface and limited in its movement by said stop projection, bracing means for said projection.

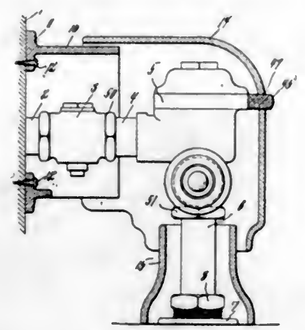
1,682,350. DISPENSING CARTON AND PAPER CUP THEREFOR. WILLIAM A. RINGLER, Philadelphia, Pa., assignor to Individual Drinking Cup Company, Inc., Easton, Pa., a Corporation of Pennsylvania. Filed Apr. 18, 1924. Serial No. 707,355. 4 Claims. (Cl. 206—56.)



4. A dispenser for paper cups of substantially flat form, said dispenser comprising a container of substantially flat formation adapted to receive within the same a stack of cups and provided with yielding cup holding and separating means disposed within the same at opposite side edge portions thereon to engage opposite side edge portions of cups of substantially flat form in the container.

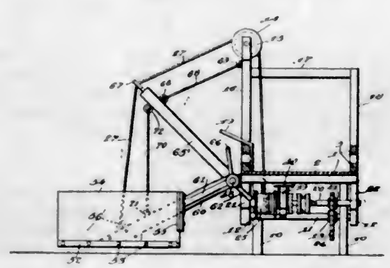
1,682,351. FLUSH-VALVE HOUSING. ALFRED ROGERS, Milton, Mass. Filed Apr. 13, 1925. Serial No. 22,886. 3 Claims. (Cl. 137—111.)

3. In combination with a wall, a pipe projecting from said wall and having a shut off therein, a flush valve carried by said pipe, a closet, and a connection from said valve to said closet, of a non-corrodible housing for said pipe and valve extending from said wall to said closet



and comprising a plurality of telescopically arranged sections, certain of said sections being open on one side to afford access to said shut off.

1,682,352. SELF-LOADING VEHICLE. JOHN N. SHANKS, Post Falls, Idaho, assignor to Empire Thresher Co., Post Falls, Idaho, a Corporation of Idaho. Filed May 5, 1926, Serial No. 106,952. Renewed Apr. 9, 1928. 1 Claim. (Cl. 214—80.)

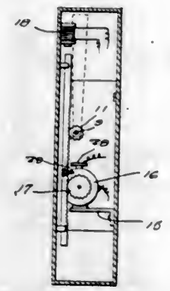


In a self loading vehicle mechanism, a vehicle having a running gear, a rock shaft journalled alongside said vehicle, a fork having an arm mounted to swing on said rock shaft, said fork having an inner load guard provided with an arm mounted to swing on said rock shaft, an angularly disposed reach arm having its forward end fixed to said fork and its rear end journalled on said rock shaft, and mechanism operated from said axle for elevating said fork from a ground pick-up to a position for discharging the load of the fork onto said vehicle.

1,682,353. AUTOMATIC GATE MECHANISM FOR RAILWAY CROSSINGS. JOSEPH WILLIAM SHEAN, Spearville, Kans. Filed Jan. 7, 1926. Serial No. 79,840. 1 Claim. (Cl. 39—7.)

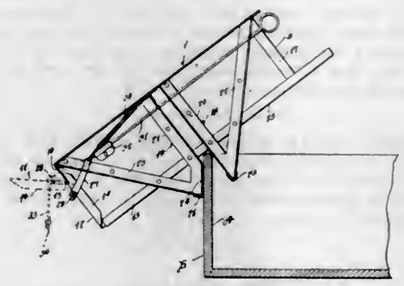
In an automatic gate mechanism for railroad crossings, hollow posts at the crossing, each including a horizontally pivoted gate arm mounted for swinging movement on the outside of the post, a vertically sliding weighted bar arranged within each post and operatively connected with the arm whereby movement of the same in opposite directions will cause the swinging of the arms in opposite directions, an electric motor operatively connected

to said bar for moving the same upwardly, said bar being adapted to move downwardly by gravity, an electric magnet in each hollow post supported above the slidable weighted bar and arranged in the same circuit with the motor, said electromagnet engaging the upper end of the bar for holding the same in a raised position for maintaining the swinging arm in a horizontal position, cooperating



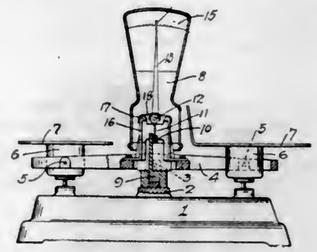
means between the electric motor and the slidable weighted bar for cutting off the electric motor automatically when the weighted bar is raised to a predetermined position, said last mentioned means comprising a switch associated with the electromotor, said switch including a pivoted plate and a trip carried by the weighted bar and adapted for engagement with the pivoted plate of the cut-out switch.

1,682,354. BATCH HOPPER FOR CONCRETE MATERIAL. JOHN L. SHUE, Shawnee, Okla. Filed Jan. 27, 1927. Serial No. 164,099. 6 Claims. (Cl. 214—38.)



1. A batch hopper for concrete material, comprising a container adapted to be mounted on the side of an open freight car, brackets secured to the container and extended below its bottom, said brackets being in pairs and adapted to be arranged on opposite sides of the freight car side, the brackets of each pair spaced from one another a greater distance than the thickness of the side of the freight car, and a bracket of each pair having a portion inclined from the other bracket, said inclined portion being adapted to engage the adjacent face of the side of the freight car to incline the container relatively to the car side.

1,682,355. SCALE. WALTER S. SMITH, Columbus, Ohio. Filed June 6, 1927. Serial No. 196,746. 9 Claims. (Cl. 265—54.)



1. The combination with the movable beam of a scale, of a spring strip supported at one end independently of the beam, and a connecting element extending between said beam and a flexibly movable portion of said strip, said strip carrying a bar with which said element has rolling engagement and positioned to normally maintain said beam in a neutral position.

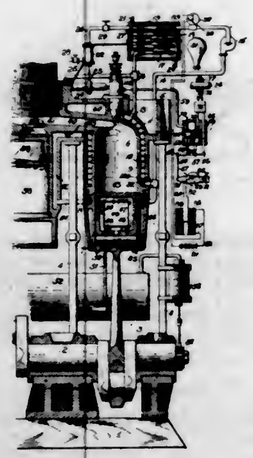
1,682,356. MECHANISM FOR STRETCHING SHEETS OF MATERIAL. CECIL J. SOLOMON, New York, N. Y. Filed June 4, 1926. Serial No. 113,597. 6 Claims. (Cl. 149—21.)

1. In a stretching machine, the combination of a pair of conveyers, each having a series of gripper fingers mounted thereon, means adapted to actuate said gripping fingers to the gripping position, means adapted to actuate the said conveyers, means adapted to simultaneously cause the actuation of the said gripper fingers in a direction perpendicular to the movement of the said conveyers, and means adapted to intermittently cause the said gripper fingers to be opened, whereby a sheet of material can be inserted between the gripper fingers respectively mounted upon the said conveyers while said gripper fingers are in the open position, and the said sheet of material thereafter be subjected to a stretching action.

1,682,357. INTERNAL-COMBUSTION-ENGINE CYLINDER. ELMER A. SPERRY, Brooklyn, N. Y., assignor to Sperry Development Company, Dover Green, Del., a Corporation of Delaware. Filed Aug. 10, 1920. Serial No. 402,657. 4 Claims. (Cl. 123—173.)

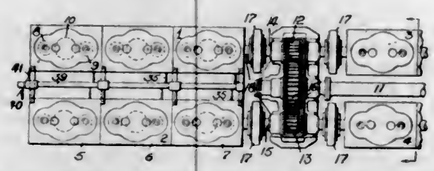
1. In an internal combustion engine, a combustion cylinder, not designed for bearing the whole pressure of

combustion, fuel feeding means therefor, means for impressing centrifugal force upon said cylinder of sufficient



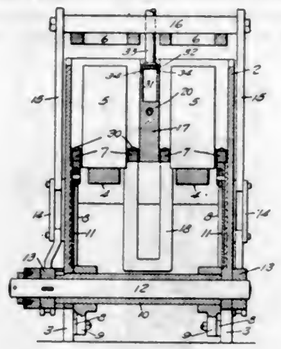
degree to enable said cylinder to bear the pressure of combustion, and electromagnetic means controlled by said force for controlling said fuel feeding means.

1,682,358. COMBUSTION-ENGINE DRIVE FOR SHIPS. ELMER A. SPERRY, Brooklyn, N. Y., assignor to Sperry Development Company, Dover Green, Del., a Corporation of Delaware. Filed Mar. 28, 1922, Serial No. 547,384. Renewed Jan. 18, 1928. 17 Claims. (Cl. 60—97.)



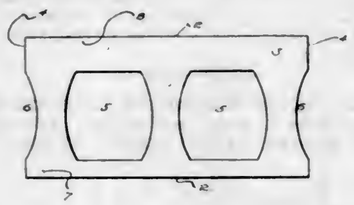
1. A combustion engine drive for ships comprising the combination with the propeller shaft, of a plurality of engine units for driving said shaft, a clutch between at least one of said units and said shaft, direction control means for said units whereby said units may be driven in the same or opposite directions, and means whereby said clutch is released when said units are operated so as to revolve said shaft in opposite directions.

1,682,359. METHOD OF MAKING CONCRETE BUILDING BLOCKS. FRANCIS J. STRAUB, New Kensington, Pa. Filed Nov. 16, 1926. Serial No. 148,677. 8 Claims. (Cl. 25—155.)



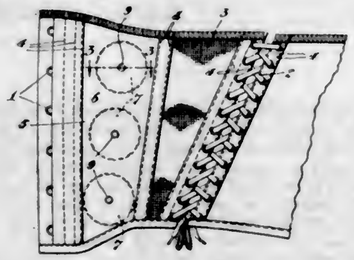
1. The method of making a concrete building block consisting in compressing the block in a mold and then impregnating one of its faces with an investing fluid while moist and under pressure.

1,682,360. BUILDING BLOCK. FRANCIS J. STRAUB, New Kensington, Pa. Filed Nov. 16, 1926. Serial No. 148,680. 2 Claims. (Cl. 72—36.)



2. A concrete building block composed of a continuously similar dried aggregate having transverse openings therethrough, a continuously dense thin side wall portion at one side, and a continuously relatively open and porous thick side wall portion at the other side.

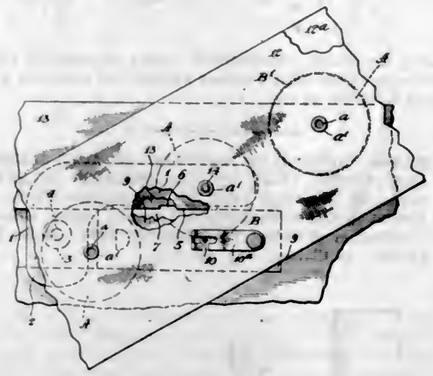
1,682,361. BONING FOR FLEXIBLE MATERIALS. MILLARD VON HALLE, Palisades Park, N. J., assignor to The Standard Corset Company, New York, N. Y., a Corporation of Massachusetts. Filed Nov. 16, 1926. Serial No. 148,625. 2 Claims. (Cl. 2—36.)



2. As a new article of manufacture: superposed layers of flexible material, a disk interposed between the layers of

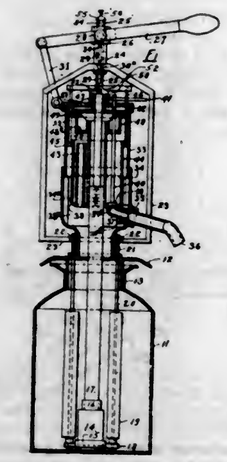
material, and means securing the disk and layers together comprising: an eyelet at the center of the disk clamping the flexible material to the disk and stitching passing through the layers of flexible material and circumferentially surrounding the disk.

1,682,362. ART OF SEWING. MILLARD VON HALLE, Palisades Park, N. J., assignor to The Standard Corset Company, New York, N. Y., a Corporation of Massachusetts. Filed Apr. 13, 1927. Serial No. 183,359. 1 Claim. (Cl. 2—255.)



The method of securing a disk, interposed between layers of flexible material, to said material which consists in: initially attaching the layers of material and disk together with an eyelet at the center of the disk, mounting the disk and layers on a pivot adjacent a sewing head, and then subjecting the layers of flexible material to the action of said sewing head to sew the layers together circumferentially around the disk.

1,682,363. MILK DISPENSING AND MEASURING DEVICE. ELIAS N. AUSTIN, New York, N. Y., assignor to S. P. U. Corporation, New York, N. Y. Filed Oct. 7, 1925. Serial No. 61,018. 4 Claims. (Cl. 221—100.)



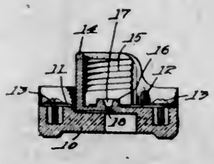
3. In a milk dispensing device a pump, having a piston rod connected thereto, a milk stirring mechanism, a means for actuating the same and said piston rod, a sleeve carried by said means, said sleeve to slide on said piston rod, a pin on said sleeve and a slot in said piston rod, in engagement with said pin, said pin to transmit motion from said means to said rod, and said slot to cause a lost motion to said rod at each end of the stroke of said sleeve, thereby causing said mechanism to be actuated before said rod and independently thereof at the beginning of each stroke of said sleeve.

1,682,364. MAGNETIC CORE MATERIAL. STUART BALLANTINE and RICHARD W. SEABURY, Boonton, N. J., assignors to Radio Frequency Laboratories, Inc., Boonton, N. J., a Corporation of New Jersey. Filed Jan. 9, 1923. Serial No. 611,671. 1 Claim. (Cl. 175—21.)



Process of molding a magnetic core material which comprises coating thin laminæ of magnetic material with a potentially reactive phenolic resinoid insulating binder to form a molding mixture of substantially normal molding characteristics, and subjecting said mixture to heat and pressure in a mold of arbitrary shape, said heat and pressure being so regulated as to produce an integral molded article having the characteristics of low electric conductivity, low eddy-current losses at radio frequencies, and a magnetic permeability at radio frequencies of the order of ten.

1,682,365. FUSE CUT-OUT. JOHN B. BOURGEOIS, Worcester, Mass. Filed May 6, 1926. Serial No. 107,254. 1 Claim. (Cl. 200—130.)

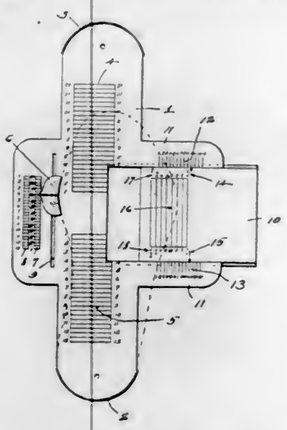


The combination with a fuse plug having a metallic projection extending beyond its end, with an insulating base having a conducting socket for receiving the plug and having an insulating wall extending across the bottom of the socket and provided with an integral projection extending into the socket and having a perforation therethrough for said projection, and a conductor supported in said base and having a metallic head thereon extending part way up into said perforation, for the purposes described.

1,682,366. FOOT-MEASURING INSTRUMENT. CHARLES F. BRANNOCK, Syracuse, N. Y. Filed Nov. 4, 1925. Serial No. 66,718. 4 Claims. (Cl. 33—3.)

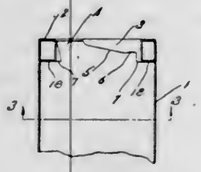
1. A foot measuring instrument comprising a base plate formed with a heel abutment and having a scale arranged to measure the length of the foot from heel to the toe when the heel is against the abutment, a second abutment arranged to engage the ball joint, a width finder carried by the plate and shiftable toward and from the second abutment, the base plate having a second scale thereon along the

path of the width finder and corresponding to the former scale and the width finder having an index movable along the second scale, the width finder also having width indi-



cating graduations thereon arranged to come in line with the outer edge of the foot, and correlated with the graduations of the second scale.

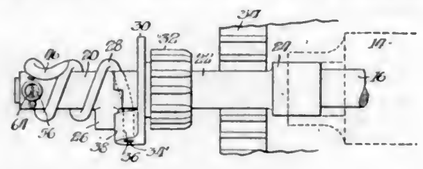
1,682,367. BRACING MEANS FOR TUBULAR FILLER MEMBERS. DENNIS F. BRAWN, Cleveland, Ohio, assignor, by mesne assignments, to The Eaton Axle & Spring Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 25, 1926. Serial No. 137,691. 1 Claim. (Cl. 220—40.)



A tubular filler neck adapted to be closed by a cap member having a locking finger, comprising a tubular body portion and a depending flange arranged therein and extending substantially parallel therewith, said flange having an inclined lower edge over which travels the locking finger of the cap member when applying said cap member to and removing it from the filler neck, said flange being provided at the rear end of its inclined edge with a depending projection forming a stop for the locking finger of the cap member as said finger travels up said inclined edge, said stop projection having its lower end portion bent at right angles outwardly into engagement with said tubular body portion, thereby bracing said stop projection and preventing its being bent outwardly when a filling nozzle is inserted into the tubular body portion of the filler neck.

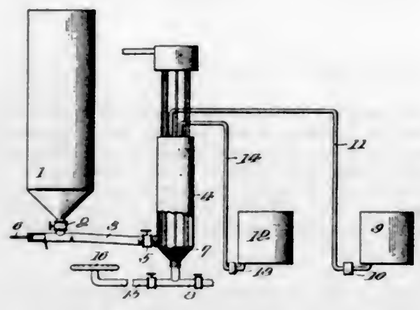
1,682,368. ENGINE STARTER. JAMES A. CHARTER, Chicago, Ill. Filed Feb. 10, 1926. Serial No. 87,266. 9 Claims. (Cl. 74—7.)

1. In an engine starter, a commercial unit comprising a shaft made in two abutting parts, a pinion rotatable and reciprocable on one part of said shaft, a rigid obstruction preventing removal of the pinion from the end of that part of the shaft which is away from the second part of the shaft, a projection on the second shaft part, movable between the convolutions of a spring, such a spring encircling said shaft parts between said projection and said pinion, means detachably affixing the spring to the pinion, an end loop or stop on the spring engaging said projection, and



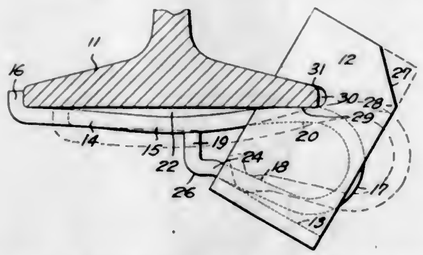
means detachably, nonrotatively, rigidly securing the adjacent ends of the shaft together whereby for operating purposes these are as one.

1,682,369. METHOD OF DISPOSING OF ACID SLUDGE AND SPENT CLAY IN OIL-REFINING PLANTS. JAMES M. CORY and FRED H. BUNKE, Lima, Ohio, assignors to The Solar Refining Company, Lima, Ohio, a Corporation of Ohio. Filed Jan. 27, 1926. Serial No. 84,163. 18 Claims. (Cl. 44—1.)



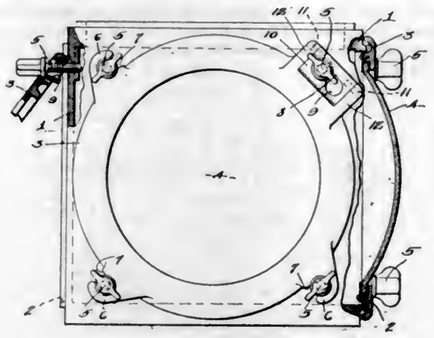
1. The method of preparing a liquid fuel consisting in mixing acid sludge, a filtering medium and a fluxing medium together in the presence of a heating medium.

1,682,370. RAIL ANCHOR. FRANCIS W. COOPER, Montreal, Quebec, Canada, assignor to Stead Rail Anchors, Incorporated, New York, N. Y., a Corporation of Delaware. Filed Feb. 1, 1926. Serial No. 85,356. 26 Claims. (Cl. 238—324.)



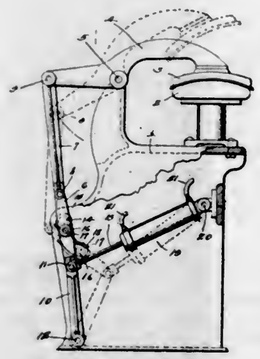
1. In a rail anchor, a resilient clip member including a substantially straight portion, a hook portion and reversely curved portion connecting the hook portion and the straight portion whereby the length of the hook portion projecting beyond the face plane of the straight portion is less than the actual length of the hook portion.

1,682,371. DOOR CONSTRUCTION FOR LAMPS AND THE LIKE. ROYAL E. CROSSLEY, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed July 13, 1926. Serial No. 122,235. 7 Claims. (Cl. 220—33.)



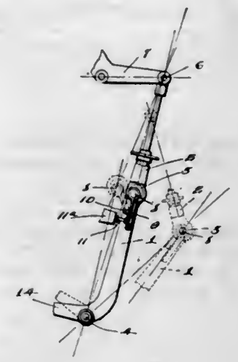
1. In a door construction, the combination of a body having a door opening, a plurality of studs spaced apart in a circle around the door opening, a door provided with outwardly projecting lugs formed with open ended slots for receiving all but one of the studs and an additional lug formed with a slot provided with an enlargement, said studs being screws threading in the body through the slots.

1,682,372. ACTUATING MECHANISM FOR PRESSING MACHINES. JOSEPH P. DALY, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Aug. 6, 1926. Serial No. 127,528. 7 Claims. (Cl. 68—9.)



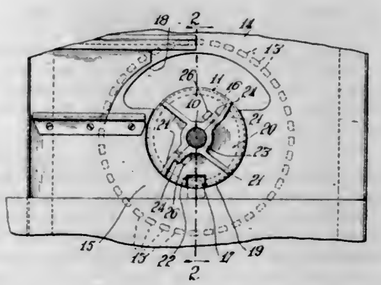
1. The combination with a supporting frame, of an actuating mechanism for a movable element supported by the frame, the actuating mechanism comprising a lever pivoted between its ends to the frame, connections between one arm of the lever and the movable pressing element, and connections between the other arm of the lever and the frame, the frame being formed with a guide for receiving a pivot of said lever whereby the lever may be moved bodily during its pivotal movement, and a reciprocating actuator connected to the lever.

1,682,373. TOGGLE MECHANISM. ERNEST DAVIS, Chicago, Ill., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Apr. 13, 1925. Serial No. 22,576. 5 Claims. (Cl. 74—5.)



5. A toggle mechanism comprising links, pivot means connecting the links including a shaft on which one of the links is mounted and an eccentric on the shaft on which the other link is mounted, the shaft having a radially extending arm and means arranged to engage said arm as the toggle straightens.

1,682,374. CORN SHELLER. ALBERT E. GILMAN, Ottawa, Ill., assignor to King and Hamilton Company, Ottawa, Ill., a Corporation of Illinois. Filed Dec. 1, 1927. Serial No. 236,918. 4 Claims. (Cl. 130—6.)



1. In a corn sheller, the combination with a casing having a shelling concave therein, of a shaft journaled in said casing having a shelling cylinder secured thereto and cooperating with the concave when the shaft is rotated, an outlet in said casing for the cobs and husks, and beater blades secured to the shaft outside of the concave casing, substantially as and for the purpose described.

1,682,375. WINDOW GUARD. MICHAEL HEIDT, Brooklyn, N. Y. Filed Feb. 2, 1927. Serial No. 165,273. 4 Claims. (Cl. 20—71.)

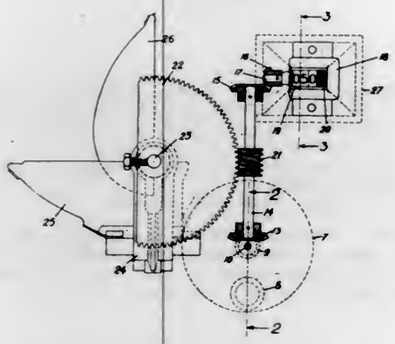
1. In combination with a window frame, a window guard for safeguarding persons sitting on the window sill while cleaning windows, said guard comprising a tubular central

member, a pair of side members telescoping at one end with and adjustable within said tubular member and having depending ends adapted to bear against the outer face of



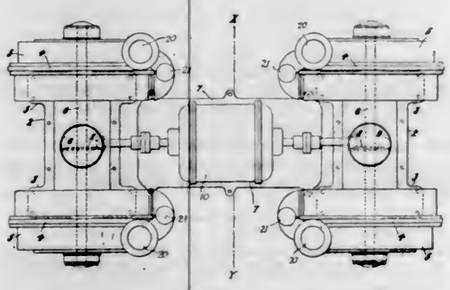
the window frame, and means, attachable to the latter, for receiving and firmly engaging said depending ends of the side members.

1,682,376. COMBINATION INDICATING AND ADJUSTING DEVICE FOR RADIOCIRCUITS. OTTO HENZE, Brooklyn, N. Y. Filed Apr. 26, 1927. Serial No. 186,643. 6 Claims. (Cl. 40—68.)



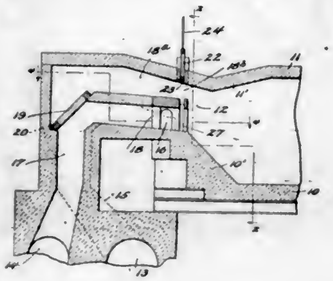
1. The combination with a tuning device for radio apparatus, of a segmental gear on the adjusting shaft of said tuning device, a drive shaft, means to rotate said drive shaft, a worm on said drive shaft meshing with said segmental gear, a gear on said drive shaft, and means actuated by said gear to indicate the adjusting wave-length of the tuning device.

1,682,377. COAL-PULVERIZING MACHINE. RALPH JACKSON, Coventry, England, assignor to Alfred Herbert Limited, Butts, Coventry, England, a British Company. Filed Apr. 13, 1926, Serial No. 101,817, and in Great Britain May 5, 1925. 3 Claims. (Cl. 83—11.)



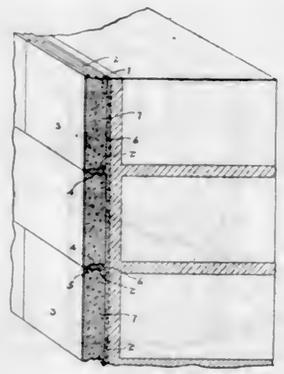
1. A pulverizing apparatus comprising a one piece casing having two spaced centrally located pulverizing chambers, means forming a fan chamber outside of each pulverizing chamber, a single shaft passing through the chambers centrally thereof, and driving connections to the central portion of said shaft between the pulverizing chambers.

1,682,378. OPEN-HEARTH FURNACE. ALBERT T. KELLER, Bethlehem, Pa., assignor to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Dec. 5, 1921. Serial No. 520,041. 11 Claims. (Cl. 263—15.)



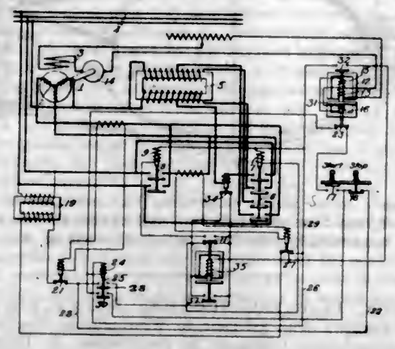
5. An end construction for open hearth furnaces having air gas channels including air and gas ports disposed substantially horizontally and terminating adjacent the end of the combustion chamber, a separate port for products of combustion leading from the combustion chamber, and means for blocking the terminal ends of the air and gas ports to protect the same against the action of hot products of combustion.

1,682,379. TILE. WILLIAM PLATTS KELLETT, Brantford, Ontario, Canada. Filed Oct. 16, 1926. Serial No. 142,099. 6 Claims. (Cl. 72—20.)



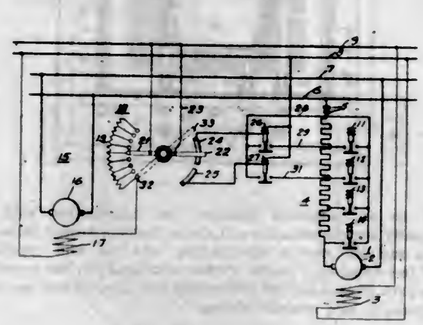
1. A tile, comprising a metal sheet having flanges extending the full length of the ends and sides and turned at right angles thereto to form an open casing for the reception of a plastic filler of cement materials and having the meeting edges rigidly joined, said flanges having recesses therein leading from each side thereof adapted to register on the outside with recesses in adjacent blocks and to receive and effect the interlock of the flanges with the filler on the sides thereof.

1,682,380. STARTING SYSTEM FOR ELECTRIC MOTORS. HARVEY KING, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 19, 1920. Serial No. 397,409. 12 Claims. (Cl. 171—118.)



1. The combination with a synchronous electric motor having a primary winding and a field-magnet winding, of means dependent upon the frequency of the alternating current and the value of the direct current traversing said field-magnet winding for controling the circuit of said primary winding.

1,682,381. MOTOR-CONTROL SYSTEM. REESE T. KINTZING, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 21, 1925. Serial No. 70,482. 6 Claims. (Cl. 172—239.)

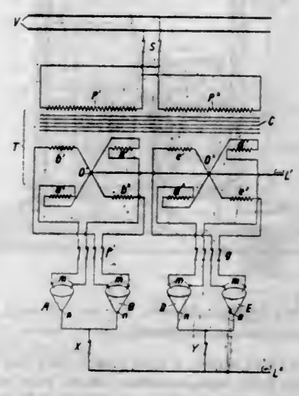


1. In a motor-control system, a variable-voltage supply circuit, a motor adapted to be connected to said supply circuit, a starting device connected in circuit with said motor, and means for varying the effective value of said device in accordance with the voltage of said supply circuit prior to the connection of the motor thereto.

1,682,382. SULPHONATED-CELLULOSE DERIVATIVES AND PROCESS OF PREPARING THEM. GEORG KÄNZLEIN, ARTHUR VOSS, and FRANZ BRUNNTRÄGER, Hochst-on-the-Main, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed July 25, 1927. Serial No. 208,406, and in Germany Sept. 10, 1926. 15 Claims. (Cl. 260—100.)

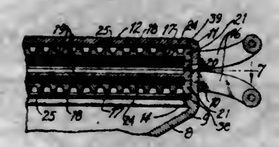
1. The process of preparing sulfonated cellulose derivatives by causing cellulose to react with an aralkylhalogensulfonic acid in the presence of an alkaline agent.

1,682,383. ELECTRICAL RECTIFYING APPARATUS. JOHANNES KÜBLER, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Mar. 20, 1926, Serial No. 96,342, and in Germany Apr. 6, 1925. 5 Claims. (Cl. 175—363.)



1. Rectifying apparatus comprising, in combination, a plurality of groups of rectifiers, a transformer common to and supplying said groups, said transformer including a plurality of parallel primary windings and secondary windings for the corresponding input electrodes of the respective rectifiers, each of said secondary windings being uniformly distributed over its associated primary winding.

1,682,384. COOKING DEVICE. JOSEPH G. LAMBERT, Chicago, Ill. Filed Feb. 1, 1928. Serial No. 251,181. 8 Claims. (Cl. 219—19.)

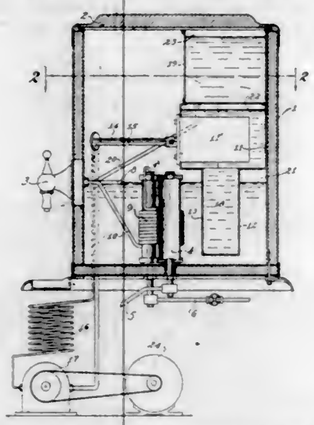


5. A pancake and waffle making device comprising upper and lower members hingedly connected together and electric-heating-element-equipped plate-like elements on said members each having one face in the form of a grid and its opposite face plain, said elements having electric terminals; and means for releasably engaging said elements with said members, said terminals being located adjacent said hinge and said elements being reversible and interchangeable whereby said terminals in the different positions of said elements extend at the same location on said members.

1,682,385. COOLING APPARATUS FOR BEVERAGE DISPENSERS. WILLIAM E. LIEBING, Oakland, Calif., assignor to Magnus Fruit Products Co., San Francisco, Calif., a Corporation of California. Filed Nov. 5, 1927. Serial No. 231,222. 1 Claim. (Cl. 62—141.)

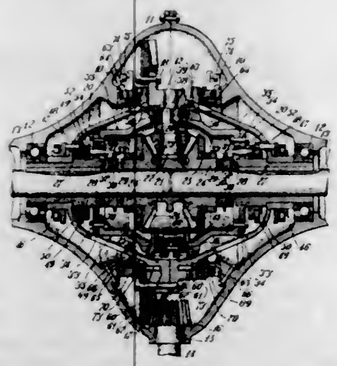
A cooling apparatus for liquid dispenser comprising a container provided with an open top, said container provided with a body of liquid therein, a tank supported within said container at one side and extending into said liquid body, said tank containing a body of brine, a refrigerating unit within the tank immersed in the brine solution therein, a unit positioned within said container in front of said tank, a second unit positioned within said container, said units being removable from the container independently of the tank and through each of which units a separate body

of liquid passes, said units lying adjacent to said tank whereby the temperature of the fluid passing therethrough is controlled by conduction from said brine solution through



said body of fresh water, a fluid receptacle lying above and supported by said tank, a mixing valve exteriorly of the container, and independent pipes extending from the units and receptacle to said mixing valve.

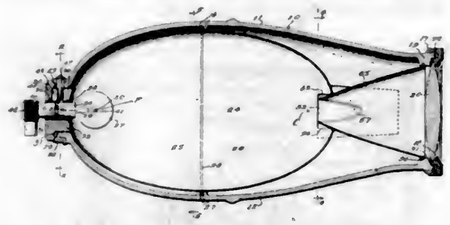
1,682,386. DIFFERENTIAL MECHANISM. FRANK M. LEWIS, Chicago, Ill. Filed Apr. 23, 1927. Serial No. 185,972. 10 Claims. (Cl. 74—99.)



1. In a power transmitting mechanism, the combination with alined shaft sections, of an equalizing differential gearing mounted on said shaft sections, means drivingly connecting said gearing to said shaft sections, a clutch mechanism mounted on and connected to said shaft sections, a driving means common to both said differential gearing and said clutch mechanism, means for rendering idle said connecting means, and means for rendering idle said clutch mechanism.

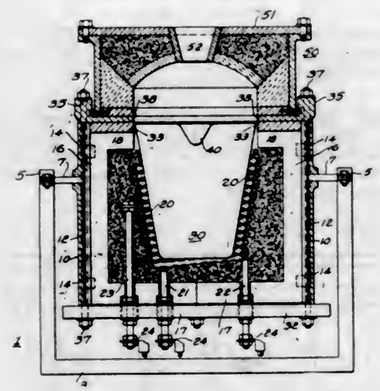
1,682,387. HEADLIGHT. JOHN MINOR BOTTS LEWIS, Lynchburg, Va. Filed Mar. 8, 1926. Serial No. 93,254. 5 Claims. (Cl. 240—41.)

3. A device of the character described comprising a light converging reflector having principal and conjugate foci, a light bulb arranged in said reflector provided with a pair of filaments approximating the principal focus of said reflector, said filaments being adapted to be selectively illuminated, a supplementary reflector formed as a surface of revolution arranged forwardly of the conjugate focus of said first named reflector and adapted to intercept light rays from the forward portion thereof and redirect them forwardly, said supplementary reflector being provided in its rear end with an opening adjacent the plane of the



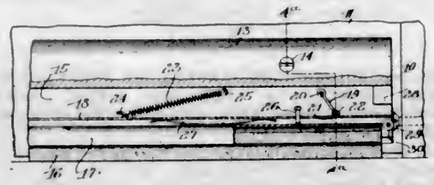
conjugate focus, and a condensing lens arranged in the path of rays from said reflectors and having its rearward focus substantially coincident with said opening.

1,682,388. INDUCTION FURNACE. ROLLO B. LINCOLN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 21, 1927. Serial No. 176,885. 6 Claims. (Cl. 266—1.5.)



1. In an induction furnace, the combination with a helically wound inductor coil and a crucible nested therein, of a metallic casing surrounding said coil and crucible, and ferro-magnetic means within said casing in the exterior flux path of said coil for preventing the induction of electric currents in said metallic casing.

1,682,389. WEATHER STRIP. WILLIAM A. LUDEKE, Rochester, N. Y. Filed Apr. 14, 1926. Serial No. 102,080. Renewed July 11, 1928. 13 Claims. (Cl. 20—68.)



1. A weather strip adapted for attachment to a door or closure comprising a holder, a channel swingingly mounted upon the holder and adapted when pressure is applied

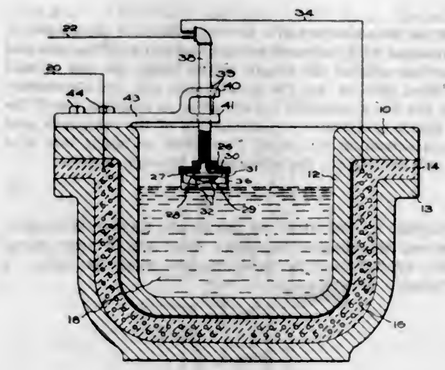
thereto in a predetermined direction to swing upon the holder, retracting means for the channel, a member yieldably supported within said channel and a flexible strip carried by said member.

1,682,390. TREATING FIBROUS MATERIAL. ALFRED LUTZ, Seehof, near Teltow, Germany, assignor, by mesne assignments, to Ronald C. Lee, Bedford, N. Y. Filed Mar. 29, 1921, Serial No. 456,759, and in Germany July 2, 1915. Renewed May 26, 1926. 8 Claims. (Cl. 91—70.)

1. The process of treating fibrous material which consists in immersing said material in web form in a bath of a gelatinous impregnating material, applying to said impregnated web a hardening agent consisting of methylolformamide, and then allowing the web to stand to get progressive hardening of the impregnating material by the hardening agent.

6. An improved method of sizing fibrous material which consists in treating the material with a gelatinous sizing composition to impregnate it, maintaining the composition and material at a temperature above normal during the impregnating, then applying a quantity of hardening medium to said material proportioned to the quantity of sizing material soaked up, winding the material into roll form immediately after application of the hardening medium and allowing it to stand in roll form while the hardening medium acts on the sizing composition.

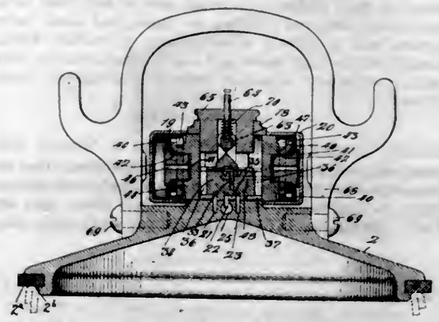
1,682,391. TEMPERATURE-CONTROL SYSTEM. HOWARD D. MATTHEWS, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 23, 1926. Serial No. 117,908. 4 Claims. (Cl. 236—52.)



1. The combination with a liquid container, of electric means for heating the liquid, a thermostatic switch electrically connected to said heating means for controlling the energization thereof, and means for maintaining said thermostatic switch in proximity to the surface of the liquid.

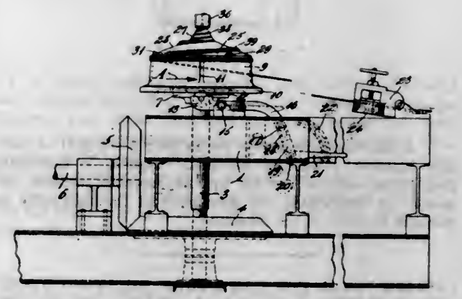
1,682,392. PULSATOR FOR MILKING MACHINES. HERBERT MCCORNACK, Glen Ridge, N. J. Filed Aug. 12, 1920. Serial No. 403,013. 19 Claims. (Cl. 31—62.)

1. In pulsator mechanism for milking apparatus, a cylinder, a piston mounted to reciprocate therein and having annular grooves formed in its outer surface adjacent its ends, washers carried by said piston adjacent the ends thereof and extending between said piston and the wall of said cylinder and in register with said grooves, and split rings of yielding material mounted within said grooves for holding said washers in engagement with said cylinder wall, said rings having their ends abutting and having internal



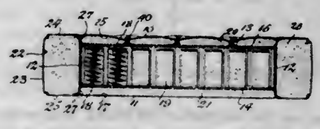
diameters greater than the internal diameters of the grooves whereby to permit bodily movement of said rings with respect to said grooves.

1,682,393. WIRE-DRAWING MECHANISM. CARL F. MEAD, Cleveland, Ohio. Filed Aug. 18, 1924. Serial No. 732,723. 6 Claims. (Cl. 205—20.)



1. Wire drawing apparatus, comprising a drawing drum, means for positively rotating the same at definite speed, and a rotatable wire starting member provided with a conical portion, parts of which are inclined at different pitches and around which the wire is led to the drum periphery.

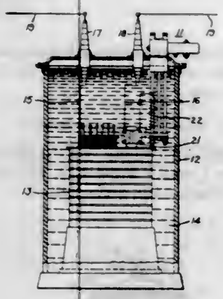
1,682,394. MATTRESS AND CUSHION. CHARLES C. MEUTSCH, Buffalo, N. Y. Filed Apr. 21, 1925. Serial No. 24,761. 1 Claim. (Cl. 5—351.)



A mattress and cushion comprising upper and lower fabric walls of an outline conforming to the shape of the cushion, an outer side wall forming the marginal wall of said cushion and secured at its upper and lower edges to the edges of said upper and lower walls, an inner wall arranged within said upper, lower and side walls and secured at its

upper and lower edges to the inner sides of the upper and lower walls a substantial distance from the edge of the cushion and forming a border compartment, a cushion filling arranged within said border compartment, upper and lower horizontal inner walls arranged within said cushion and secured at their edges to the inner side of said first mentioned inner wall and forming an upper and lower compartment and a central compartment, a cushion filling arranged within said upper and lower compartments, and a spring structure arranged within said central compartment.

1,682,395. CONTROL DEVICE. HARRY C. MILLER, Wilkinsburg, and AUGUST J. MOTTLAU, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 28, 1927. Serial No. 187,341. 18 Claims. (Cl. 297—11.)



1. A thermostatic device comprising a support, a movable member yieldingly mounted thereon, a thermally-responsive element carried by the movable member and means for restraining the movement of the thermally responsive element in one direction.

1,682,396. SEAL FOR CAR DOORS, SHIPPING RECEPTACLES, ETC. JOHN J. A. MILLER, Denver, Colo. Filed Feb. 23, 1927. Serial No. 170,143. 2 Claims. (Cl. 292—318.)

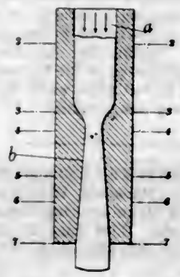


1. A seal of the character described, comprising a wire bent to a suitable form, having a conical head on one end and an annular shoulder on its opposite end, a tubular housing secured at one end upon the head end of the wire, its opposite end portion being reduced in diameter to form an annular shoulder, a divided resilient tubular lock in said housing, having introverted annular flanges at its ends, one end of said lock engaging the annular shoulder of said housing, its introverted flange engaging the annular shoulder on the opposite end of the wire, when the said wire is inserted in the housing, said tubular lock being tapered from each end toward the center thereof.

1,682,397. RUBBER AND RESIN COMPOUND. STUART P. MILLER, Philadelphia, Pa., assignor to The Barrett Company, a Corporation of New Jersey. Filed Nov. 25, 1924. Serial No. 752,190. 2 Claims. (Cl. 106—23.)

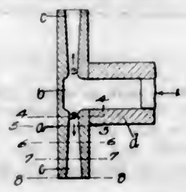
1. As a new article of manufacture, a waxy solution of about 10% of rubber dissolved in paracoumaron resin having a melting point of approximately 126° C.

1,682,398. MANUFACTURE OF PROPELLERS. ERNEST MITCHELL, Eccles, Manchester, England. Filed Aug. 8, 1927, Serial No. 211,546, and in Great Britain Oct. 14, 1926. 1 Claim. (Cl. 207—1.)



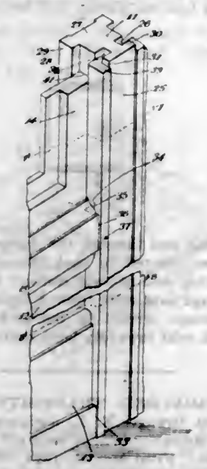
In the manufacture of a propeller blade, a die shaped to correspond with the cross section and twist of the root and a portion only of the length of the blade, the end of said die being open so that the metal issues into the atmosphere from the die, a container for the metal in alignment with the die which constitutes a continuation of the container, and means extruding the metal from said container into said die and partly into the atmosphere through the die.

1,682,399. EXTRUSION OF METALS. ERNEST MITCHELL, Eccles, Manchester, England. Filed Aug. 8, 1927, Serial No. 211,547, and in Great Britain Sept. 23, 1926. 3 Claims. (Cl. 207—1.)



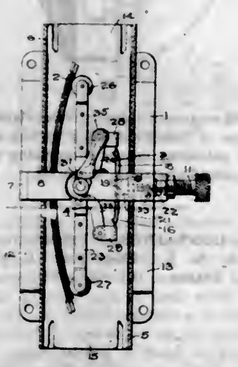
3. In the manufacture of a propeller, a die having a central matrix and a plurality of lateral matrices radiating therefrom and shaped to correspond with the root and a portion only of the length of each blade, the end of each lateral matrix being open so that the metal issues into the atmosphere from the die, a container for metal at right angles to the radiating matrices, and means extruding the metal from the container into the die and partly into the atmosphere through the die.

1,682,400. INTERIOR SECTIONAL PARTITION. FREDERIC P. MITCHELL, Los Angeles, Calif. Filed Apr. 13, 1927. Serial No. 183,412. 12 Claims. (Cl. 20—4.)



1. A partition having a post with a rabbet on one side and a shoulder adjacent the back, a panel or the like fitting in the rabbet and insertable from the face of the post, the panel bearing against the shoulder, a stop connected to the post forward of the panel, and means connected to the panel holding the stop in position.

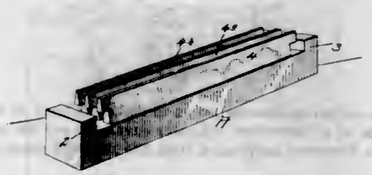
1,682,401. THERMAL RELAY. AUGUST J. MOTTLAU, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 8, 1925. Serial No. 74,026. 5 Claims. (Cl. 200—113.)



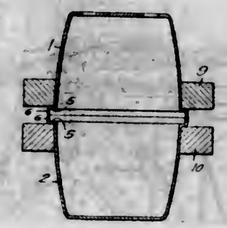
1. In a switch structure, a quick-break mechanism, an equalizer bar having a roller on each end thereof, and a bi-metal strip having its ends bearing against the rollers and adapted to actuate the quick-break mechanism by means of the equalizer bar.

1,682,402. HEATING-ELEMENT SUPPORT. HARRY A. MULVANY, Berkeley, Calif. Filed Dec. 22, 1926. Serial No. 156,325. 9 Claims. (Cl. 266—1.5.)

1. In a vehicle, a plurality of pairs of driving wheels, means mounted concentrically with respect to each other for driving individual pairs and means for equalizing the force applied through the respective driving means to the several pairs, the equalizing means including a spider with projecting flanges mounted on the propeller shaft, cooperating means including a member connected with another driving shaft and bearing flanges which project between the first named flanges and resilient means between the respective flanges to equalize the power transmission.



1,682,403. BARREL. THOMAS E. MURRAY, Brooklyn, N. Y. Filed Nov. 22, 1920. Serial No. 425,605. 2 Claims. (Cl. 219—4.)



1. A barrel formed of segments each including a head and a tubular portion of sheet metal of comparatively large diameter and slight thickness, which segments are butt-welded along transverse edges, said segments near their meeting edges being bent outward and forward so as to form bearing shoulders of extended area and transverse direction for the pressing of the edges together by means of electrodes and for stiffening such edges to maintain them in register during the welding operation.

1,682,404. HEAT-CONDUCTING TUBE. JOSEPH B. MURRAY and THOMAS E. MURRAY, Jr., Brooklyn, N. Y. Filed June 17, 1924. Serial No. 720,512. 1 Claim. (Cl. 257—262.)



A heat conducting unit comprising a tubular member made up of a plate and of hollow segments welded to opposite sides of said plate to provide a tube with lateral flanges extending beyond the tube and exposed to the surrounding medium, the part of the plate within the tube being apertured to permit circulation between opposite sides thereof.

1,682,405. NONRIGID AIRSHIP. HERMANN NAATZ, Berlin-Charlottenburg, Germany, assignor, by mesne assignments, to Firm Luft-Fahrzeug Gesellschaft m. b. H., Kleiststr., Berlin, Germany, a Corporation of Germany. Filed Mar. 30, 1923, Serial No. 628,851, and in Germany Apr. 13, 1922. 2 Claims. (Cl. 244—3.)

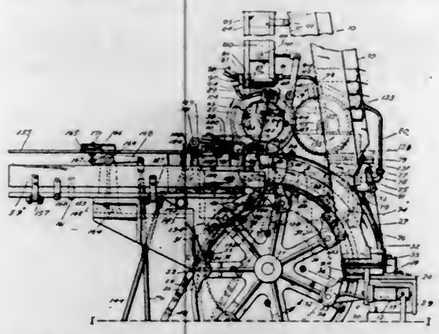
2. In an airship of the non-rigid type, a gas containing envelope, a network embracing said envelope for preventing

deformation of same and consisting of longitudinal, diagonal and transverse non-expansible flexible members whose sec-



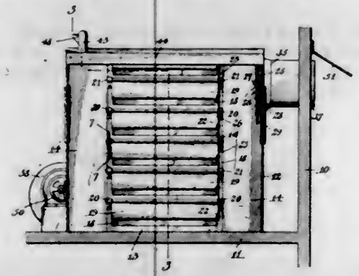
tions are interconnected so as to make the body of the ship pliable in all directions, an outer envelope over the network, and a structure suspended from the network covering.

1,682,406. PACKAGE STAMPER. PETER MARTIN NEJEDLY, Brooklyn, N. Y., assignor to American Machine & Foundry Company, a Corporation of New Jersey. Filed May 17, 1927. Serial No. 192,096. 20 Claims. (Cl. 216—55.)



1. The combination with continuously moving means for advancing and turning flat packages endwise, of package-controlled means for successively attaching stamps to the packages moving in said advancing means.

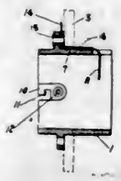
1,682,407. PAINT-SPRAY BOOTH. EDMUND H. NELSON and EGON F. TINGWALL, Jamestown, N. Y., assignors to Jamestown Blower Company, Jamestown, N. Y., a Corporation of New York. Filed Aug. 18, 1927. Serial No. 213,768. 7 Claims. (Cl. 91—60.)



1. A paint-spray booth, comprising a spraying compartment having side walls, a top wall and a rear wall provided with openings, a suction-inducing device in rear of said rear wall, an air chamber at the upper end of said spraying compartment provided with air openings directed toward said rear wall, and means for introducing air under pressure into said air chamber.

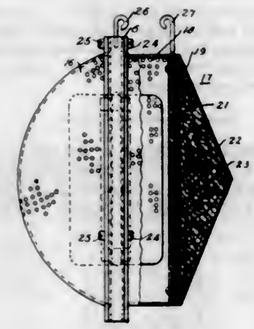
1,682,408. RADIO TUBE SOCKET. EDWARD B. NOWOSIELSKI, Bloomfield, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed June 5, 1924. Serial No. 718,056. 3 Claims. (Cl. 173—328.)

1. In a device of the class described, a socket of insulating material having a flange with mounting holes therein, said socket having spring mounting surfaces circumferentially spaced on its outer surface, said mounting surfaces terminating in slots through the wall of the socket, contact springs lying on said surfaces and each having one end bent outwardly and having an eyelet pass-



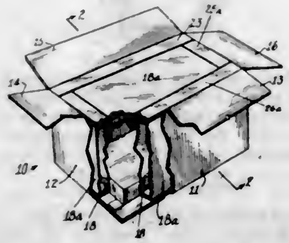
ing therethrough and through the flange and an auxiliary contact member riveted to each contact spring by said eyelets, the other end of said contact springs being bent inwardly through said slots toward the axial center of the socket, and means carried by the socket to hold a tube in contact with said inwardly bent contact ends.

1,682,409. SHIELDED TRANSMITTER. ALEXANDER NYMAN, East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 1, 1924. Serial No. 696,178. 6 Claims. (Cl. 179—122.)



1. A sound-responsive device comprising in combination a microphone, a sound-shielding means and a supporting means, said shielding means comprising a metal cone and a lining of sound-absorbing material.

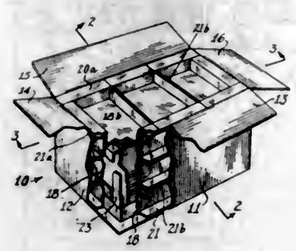
1,682,410. CONTAINER. FERDINAND S. OPPENHEIM, New York, N. Y. Filed Aug. 1, 1925. Serial No. 47,469. 7 Claims. (Cl. 229—14.)



1. A packing and shipping box comprising an outer casing having a pair of similarly constructed partition liners nested and arranged in the casing for each of the

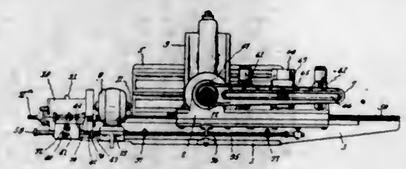
walls thereof, said liners forming a hollow supporting structure in the casing adapted to protect and cushion the enclosed contents against damage during transportation.

1,682,411. CONTAINER. FERDINAND S. OPPENHEIM, New York, N. Y. Filed Aug. 1, 1925. Serial No. 47,470. 7 Claims. (Cl. 229—14.)



1. A packing and shipping box having inner and outer walls, the inner wall forming a receptacle spaced from the outer wall, said receptacle adapted to receive articles of various cross-sectional shape, at least one side of the inner wall formed with abutting partition liner sections, one of said sections projecting into the receptacle adapted to engage an asymmetrical side of the article packed for preventing movement thereof during transportation.

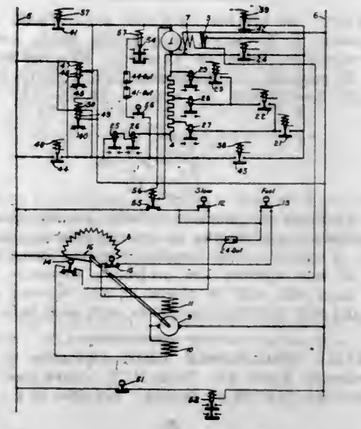
1,682,412. METHOD AND APPARATUS FOR RADIUS GRINDING. WILLIAM C. PALMER, Davenport, Iowa, assignor to Micro Machine Company, Bettendorf, Iowa, a Corporation of Iowa. Filed Feb. 6, 1926. Serial No. 86,412. 14 Claims. (Cl. 51—96.)



1. In radius grinding mechanism adapted to cooperate with a rotatable grinding wheel, in combination, a base, a carriage mounted for longitudinal movement on said base, a work support pivotally mounted on said carriage so that the pivotal axis of said work support will remain in fixed lateral position relative to said work support and will travel in a true plane which includes the axis of said grinding wheel, means to cause longitudinal travel of the carriage on said base, and means for moving said work support about the pivotal axis thereof during the longitudinal movement of the carriage.

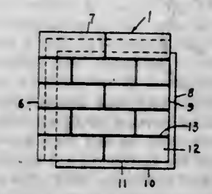
1,682,413. SYSTEM OF CONTROL. FRED M. PARKS, Murraysville, and GEORGE R. SHAW, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 26, 1925. Serial No. 58,807. 3 Claims. (Cl. 172—179.)

1. The combination with a motor and a resistor therefor, of a pair of independently operable switches for connecting said resistor in circuit for forward operation, a pair of independently operable switches for connecting said resistor in circuit for reverse operation, means for energizing one switch of each of said pairs to establish a



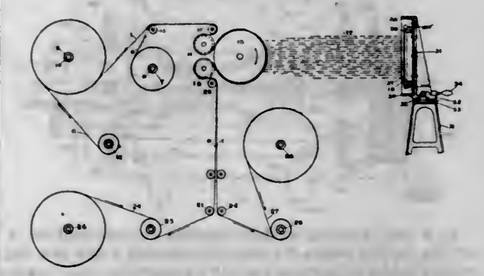
dynamic-braking circuit comprising said resistor, and load-responsive means for varying the effecting value of said resistor.

1,682,414. BUILDING BLOCK. MAX POLACOFF, Brooklyn, N. Y. Filed Aug. 16, 1927. Serial No. 213,343. 2 Claims. (Cl. 72—38.)



1. A building block comprising a substantially rectangularly shaped body portion having a T shaped groove providing a shoulder on the upper and on one of the end faces, and a square shaped tongue on the lower and opposite end face, adapted to engage with the shoulder of a contiguous block.

1,682,415. APPARATUS FOR PRODUCING SCREENS FOR COLOR PHOTOGRAPHY. JOHN H. POWRIE, New York, N. Y. Original application filed Mar. 16, 1920, Serial No. 366,198. Divided and this application filed Oct. 30, 1926. Serial No. 145,126. 10 Claims. (Cl. 95—81.5.)



1. In an apparatus for photographically printing a pattern on a continuous sensitized support, the combination

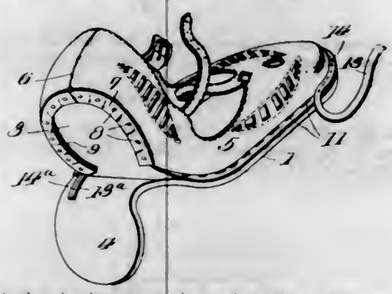
of a light source, means for continuously moving the support past the light source, and means for effecting a relative movement of the support and the light source.

1,682,416. MARKING CUTTER FOR TREE LAMPS. LAMBERT L. RAYMOND, Minneapolis, Minn., assignor to Broderick-Son-Raymond Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Nov. 22, 1926. Serial No. 150,123. 5 Claims. (Cl. 41—1.)



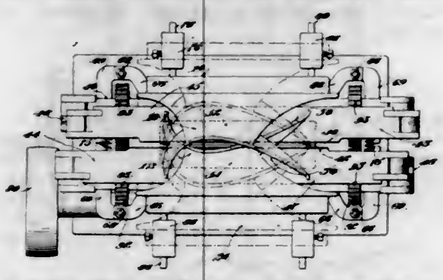
1. A device for marking colored electric lamp bulbs comprising a tool having an opening therein, and a plurality of spaced cutting members disposed about the inner edge of said opening and projecting thereinto, whereby said lamp bulb may be placed in said opening and said tool and bulb relatively moved to mark said bulb.

1,682,417. SINGLE-SOLE SHOE. WILLIAM C. RE and BERNARDO RASO, New York, N. Y. Filed Dec. 5, 1924. Serial No. 754,165. 2 Claims. (Cl. 36—16.)



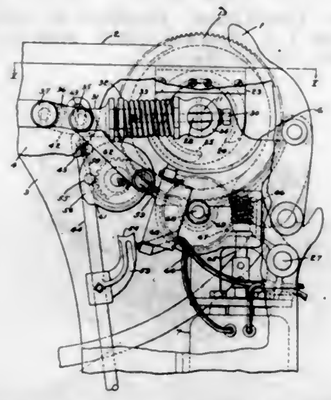
1. A shoe having a one-piece sole with a split heel portion and a channeled portion along the toe and instep periphery, a one-piece upper having its lower edge divided by gashes at each side, the instep and toe portion of said upper being outturned and seated on said channeled portion of said sole, the heel or counter portion of said upper being inturned between the parts of said split heel, a separate welting strip seated on said instep and toe portion of the upper and projecting therebeyond at the rear ends to overlie the lower part of said split heel, and a single stitching to unite said welting strip, said outturned portion of the upper, said channeled portion, and said lower heel portion.

1,682,418. CUTTING MACHINE. ROBERT REID and ANDREW S. REID, Beverly, Mass. Filed Aug. 31, 1927. Serial No. 216,712. 19 Claims. (Cl. 17—4.)



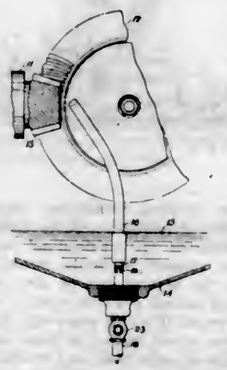
1. A fish filleting machine having, in combination, a cutting device, means for relatively moving a fish and the cutting device to perform the cutting operation, and means controlled by the thickness of the backbone of the fish for varying the location of the cut.

1,682,419. IRONING MACHINE. EARL M. RICHARDS, Pittsburgh, Pa., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 14, 1924. Serial No. 743,525. 8 Claims. (Cl. 68—9.)



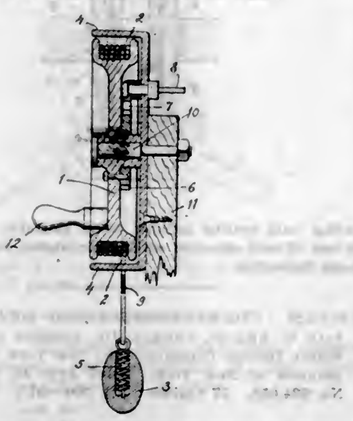
1. An ironing machine comprising a fixed ironing member, an ironing roll, means supporting said roll for movement toward, and away from, the fixed ironing member, a support, an arm pivoted on said support, a second arm pivoted to said first-mentioned arm, and secured for limited sliding movement with respect to said roll, a spring on said second arm for biasing said roll to the extreme limit of its connection with said second arm, and means for actuating said arms adjacent to their point of pivotal connection for moving said roll toward said fixed ironing member.

1,682,420. APPARATUS FOR FEEDING THE LAPPING COMPOUND TO GEARS. JOSEPH H. ROLF, Muncie, Ind., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Feb. 15, 1926. Serial No. 88,380. 2 Claims. (Cl. 51—263.)



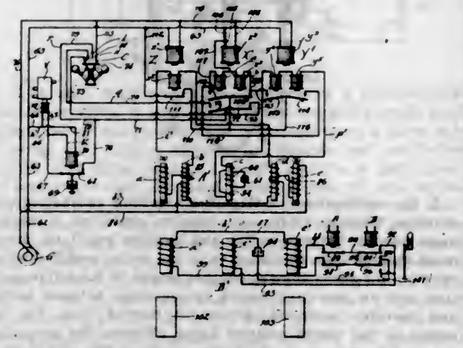
1. In a machine for lapping gears, a pair of spindles upon which the gears to be lapped are mounted, a reservoir located directly beneath said gears containing a lapping compound comprising a mixture of an abrasive and a liquid medium in predetermined proportions, a conduit extending to the vicinity of said gears, said conduit being provided with an aperture below the level of the lapping compound in the reservoir and an air discharging nozzle extending into the conduit adjacent said aperture, whereby said lapping compound is agitated and thereby mixed and conveyed from the reservoir to the gears purely by air pressure returning substantially unaltered to the reservoir.

1,682,421. AERIAL CONDUCTOR FOR WIRELESS TELEGRAPHY AND WINDING APPARATUS THEREFOR. BRUNO ROSENBAUM, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 29, 1921, Serial No. 496,626, and in Germany July 1, 1915. 2 Claims. (Cl. 250—33.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In combination with a winding reel for a radio antenna for aircraft, a conductor, a weighted body at the end of said conductor, a resilient member interposed between said conductor and said weighted body to absorb sudden tensional strains which might otherwise injure said conductor.

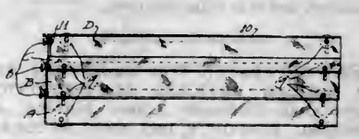
1,682,422. TRAIN-CONTROL SYSTEM. FRED M. ROSENZWEIG, Brooklyn, N. Y., assignor to The Regan Safety Devices Company, Inc., New York, N. Y., a Corporation of New York. Filed June 5, 1924, Serial No. 717,989. Renewed Jan. 31, 1928. 27 Claims. (Cl. 246—63.)



1. An induction train control system for vehicles comprising a vehicle carried energy transmitting inductor, a vehicle carried energy receiving inductor, roadside inductor means arranged to cooperate with the vehicle carried inductors for receiving energy from the energy transmitting inductor and for transmitting such energy to the receiving inductor, and means for compensating for magnetic leakage from the vehicle transmitting to the vehicle receiving inductor.

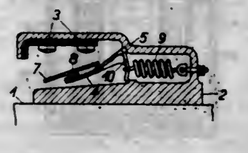
1,682,423. FILE OR RACK FOR PAPERS, DOCUMENTS, MERCHANDISE, AND THE LIKE. HERBERT O. ROSS, St. Louis, Mo. Filed June 8, 1925. Serial No. 35,673. 3 Claims. (Cl. 129—43.)

1. In a rack, a plurality of complementary compartment-forming separable units, each unit including a base wall and a single end wall and single side wall upstanding from the base wall and each unit being open upon its opposite end and side, said units being adapted to fit telescopically



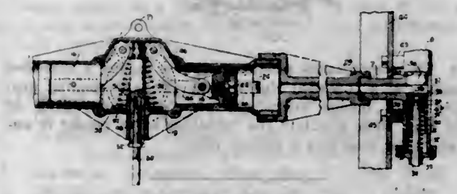
together with the end and side walls of one unit superposed over the respective end and side walls of the next adjacent unit, and means for separably securing said units together in compartment-forming relation.

1,682,424. CENTRIFUGAL STARTER FOR ELECTRIC MOTORS. MAX SCHIESSER, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri and Cie., Baden, Switzerland. Filed Jan. 18, 1925, Serial No. 2,189, and in Germany Jan. 26, 1924. 2 Claims. (Cl. 200—80.)



1. A centrifugal switch for mounting on a shaft of an electrical motor comprising a hub member adapted to be secured to the shaft, a bell-shaped cylindrical body supported on said hub member and enclosing a cylindrical space around said shaft, a double-armed lever pivotally mounted on said bell-shaped body at a point away from the closed end thereof, a spring supported at said closed end and acting on one arm of said lever, a contact member on the other arm of said lever arranged to move with said arm outwardly under the action of the centrifugal force in opposition to the action of said spring, the pivotal mounting of said arm causing said movement to be in a plane through the shaft, and contact members on said bell-shaped body adapted to be engaged by the contact member of said lever arm, the mass of the movable contact member and the associated lever arm being substantially counterweighted by the mass associated with the other arm of said lever.

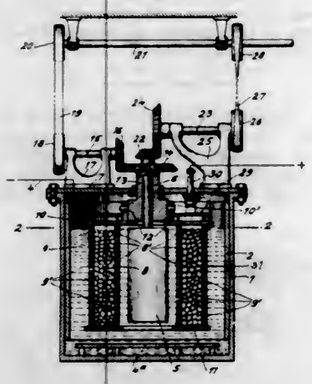
1,682,425. EQUALIZING MECHANISM FOR AUTOMOBILE BRAKES. JOHN E. SCHMIDT, Chicago, Ill. Filed Oct. 22, 1927. Serial No. 227,931. 13 Claims. (Cl. 188—204.)



1. An equalizing mechanism comprising a hollow body member having axially arranged pressure cylinders therein; pistons in said cylinders; a toggle mechanism between said pistons for operating the same; pressure chambers at the outer ends of said cylinders; brake cylinders having pistons

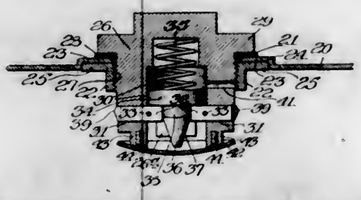
oppositely arranged and operable by fluid pressure from said pressure chambers; arms connecting said body member with said brake cylinders; said arms having channels providing communication through the arms between said pressure chambers and said brake cylinders.

1,682,426. APPARATUS FOR PRODUCING SHEETS AND SIMILAR ARTICLES ELECTROLYTICALLY. JOHANN CARL FRIEDRICH ALBERT SCHÜTTE, Altdorf, Switzerland. Filed Oct. 6, 1927, Serial No. 224,432, and in Germany Dec. 29, 1925. 5 Claims. (Cl. 204—11.)



1. In apparatus for producing sheets and similar articles electrolytically, the combination with a casing of any suitable form, serving as cathode, means for stirring the electrolyte and arranged in said casing, an anode-casing containing the ore or the other material to be treated electrolytically, said anode-casing surrounding the stirring means and having perforations through which the electrolyte acting on the ore or the like is forced by said agitating means, and means for actuating said agitating means.

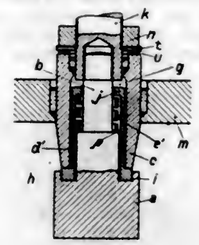
1,682,427. CONTAINER. SAUL SCHWARTZ, Chicago, Ill., assignor to Henry Schwartz, Chicago, Ill. Filed June 11, 1927. Serial No. 198,240. 9 Claims. (Cl. 220—39.)



1. The combination with a container having a threaded opening, of a threaded closure-plug for said opening provided with means operating, upon the unscrewing of said plug, to so mutilate the container as to render it unadapted for receiving a similar plug.

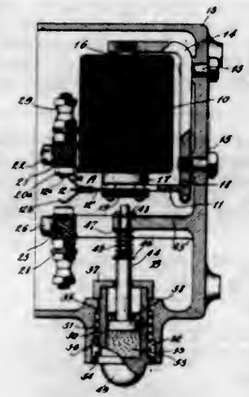
1,682,428. MERCURY-VAPOR RECTIFIER. OSKAR SEITZ, Baden, Switzerland, assignor to Brown, Boveri & Cie., Baden, Switzerland. Filed Sept. 10, 1925, Serial No. 55,458, and in Germany Oct. 29, 1924. 11 Claims. (Cl. 176—50.)

1. An electrode mounting for mercury vapor rectifiers comprising an insulating bushing extending through the rectifier casing, an electrode having a portion within the bushing, and a sealing member having sealing engagement with the bushing and the electrode within the rectifier



casing, said sealing member being shiftable with respect to one of said elements while maintaining sealing engagement therewith.

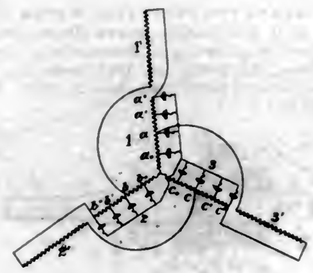
1,682,429. CIRCUIT-CONTROLLING MEANS. ARCHIBALD G. SHAVER, Chicago, Ill., assignor to The Regan Safety Devices Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 23, 1923. Serial No. 634,053. 17 Claims. (Cl. 200—97.)



2. In combination, a circuit controlling contact means movable between active and inactive positions, a mechanism movable between active and inactive positions, movement thereof from the inactive to the active position being effective for actuating the contact means to its active position, and an operating means also movable between active and inactive positions, movement thereof from the inactive to the active position being effective for operating the said mechanism to its active position, the said mechanism being associated with both the contact means and the operating means so that the mechanism is returnable from its active to its inactive position independently of the return of either the contact means or the operating means to their inactive positions.

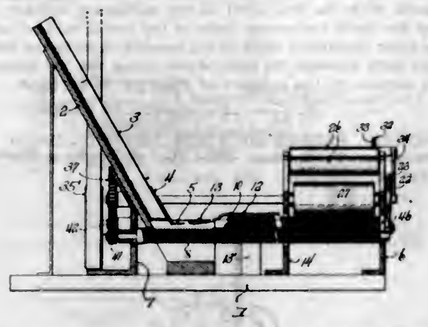
1,682,430. ROTOR WINDING FOR ASYNCHRONOUS MOTORS WITHOUT STARTERS. CLAUDIUS SHENFER, Moscow, Russia. Filed Jan. 2, 1923, Serial No. 610,122, and in Germany Mar. 20, 1922. 2 Claims. (Cl. 172—274.)

1. A polyphase rotor for an asynchronous motor in which each phase comprises two approximately equal windings arranged and connected in such a manner that the said two windings of each phase oppose and magnetically balance each other, a winding and a portion of the other winding of each phase being also connected in series with an adjacent phase whereby each phase com-



prises a high ohmic resistance and an electro-motive force generated in a part only of one of said windings is effective in each phase.

1,682,431. CHIP-FINISHING MACHINE. ANDREW SMITH, Milwaukee, Wis. Filed July 23, 1925. Serial No. 45,615. 11 Claims. (Cl. 91—48.)

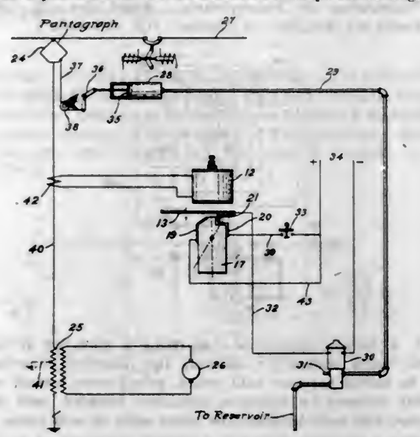


7. A chip finishing machine comprising a slanting hopper for receiving a stack of chips, an elongated screw positioned below the bottom edge of said hopper, a plate carried by said hopper adjacent its bottom end and below which said chips pass in a single manner, a guide positioned above said elongated screw, a pair of side screws adapted to engage the chips as they are fed by said elongated screw, a finger carried by said elongated screw for separating said chips and presenting them singly to said side screws, one of said side screws having an increase of pitch at one portion of its length to set said chips at an angle to their initial position, and an inking roller cooperating with said angularly set chips, said inking roller and said screws jointly rotating said chips whereby the peripheral edges of each of said chips are thoroughly inked by said inking roller.

8. A chip finishing machine comprising a hopper adapted to receive the chips, means for removing the chips from the hopper with the chips lying one upon the other while they are being removed, and means for thereafter turning said chips in a slanting position on edge, and an inking roller for inking the edge of the chips.

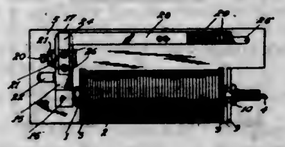
1,682,432. CONTROL APPARATUS. WALTER H. SMITH, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 16, 1926. Serial No. 135,980. 6 Claims. (Cl. 191—90.)

1. In control apparatus, in combination, a contact carrier disposed to be set in a plurality of positions, contact members mounted in spaced relation on the carrier, a movable armature associated with the carrier, a contact member provided on the armature and disposed to engage



the carrier contact members, means for actuating the armature and means operated by the armature for setting the carrier.

1,682,433. TELEPHONE APPARATUS. HENRY ROBERT SPENCER, Jamestown, N. Y., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 17, 1924. Serial No. 707,024. 13 Claims. (Cl. 200—91.)

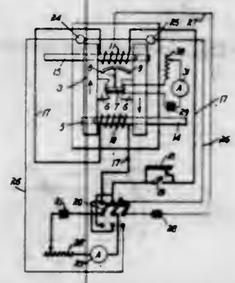


1. A device of the class described including a magnetizable core, a winding for said core, said core and winding forming a single mountable unit, a mounting bracket having an integrally formed ear, means for securing said unit to said ear, a pendulous armature having its one end reduced and its other end enlarged, means secured to said mounting bracket for pivotally supporting said armature at its reduced end and for positioning said enlarged end in a vertical plane parallel to the axis of said core and in operative position relative to one end of said magnetizabe core, said supporting means including an adjustable screw adapted to adjust the pivotal movement of the said armature and to be locked in its adjusted position, a contact spring secured to said armature, a contact spring secured to said bracket, and means for connecting operating current to the winding of said core to energize said core whereby said armature is pivotally moved in a plane parallel to the face of the core of said electromagnet, to effect contactual engagement of said contact springs.

1,682,434. MANUFACTURE OF CONDENSATION PRODUCTS CONTAINING SULPHUR. OSKAR SPENGLER and ALFRED THURM, Dessau in Anhalt, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed May 3, 1926, Serial No. 106,551, and in Germany May 28, 1925. 5 Claims. (Cl. 260—2.)

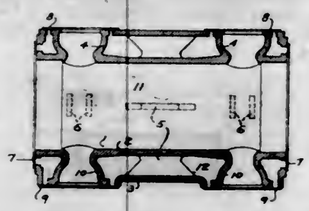
1. Manufacture of condensation products containing sulphur being tanning materials forming in the dry pulverized shape only slightly hygroscopic powders, dissolving in water, being obtained by reaction between an hydroxyaryl-carboxylic acid sulphochloride and an esterified hydroxyaryl compound.

1,682,435. MAGNETIC ANALYSIS OF DRILLS. THOMAS SPOONER, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 25, 1921. Serial No. 510,320. 3 Claims. (Cl. 175—183.)



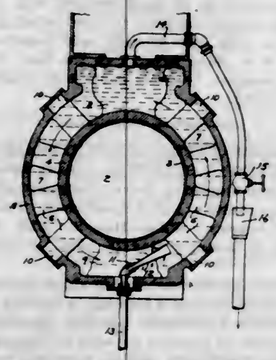
1. A testing apparatus comprising a plurality of magnetic yokes, means for allowing the insertion of articles to be tested between said yokes, pole pieces formed centrally thereon, a movable armature between said pole pieces, and coils between the outer ends of said yokes.

1,682,436. ENGINE CYLINDER. CARL G. SPRADO, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed July 19, 1926. Serial No. 123,585. 15 Claims. (Cl. 123—173.)



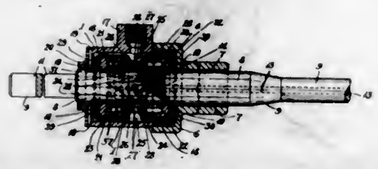
1. In an engine cylinder, inner and outer walls cooperating to form an intervening space, a valve pocket spanning said space, said pocket being rigidly attached to one of said walls and being free from direct connection with the other, and means rigidly connecting medial portions of said walls and formed to permit free relative longitudinal expansion of the end portions thereof.

1,682,437. CIRCULATING SYSTEM. CARL G. SPRADO, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed July 19, 1926. Serial No. 123,586. 6 Claims. (Cl. 123—173.)



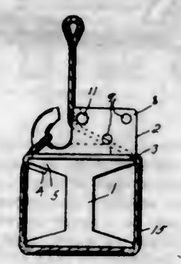
1. In combination, inner and outer walls spaced apart to provide a continuous annular jacket, means for admitting fluid to said jacket tangentially thereof and away from said inner wall, and means for controlling the quantity of fluid passing through said jacket.

1,682,438. MEANS FOR SUPPLYING WATER TO ROCK DRILLS AND THE LIKE. JAMES HENRY STUTHRIDGE and THOMAS MOXHAY HACK, Johannesburg, Transvaal, South Africa. Filed Mar. 24, 1927, Serial No. 177,966, and in the Union of South Africa May 25, 1926. 5 Claims. (Cl. 121—10.)



1. Means for supplying water to rock-drills, including an outer stationary member which provides a water space and through which member the drill steel passes, two oppositely disposed hydraulic packing rings arranged around the drill steel, and a casing which forms a housing for the packing rings, is loosely and completely housed in the stationary member, and is provided with passages through which the water can pass from the water space into the packing rings and to the drill steel, the packing rings and casing being rotatable with the drill steel in the stationary member, so that the outer transverse faces of the casing contact with the inner transverse faces of the housing to make the fluid-tight joint between the ends of the casing and the stationary member by the pressure of the fluid, as set forth.

1,682,439. SAFETY HOISTING DEVICE. DANIEL J. SULLIVAN, Tulsa, Okla. Filed Dec. 28, 1927. Serial No. 243,105. 1 Claim. (Cl. 294—74.)

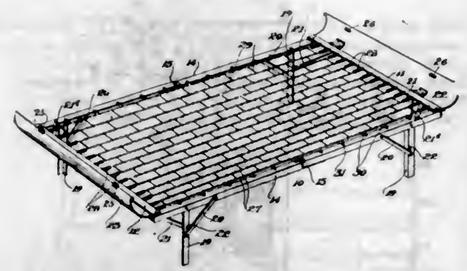


A safety hoisting device consisting of a girder attaching member adapted for lifting the girder in horizontal plane at its center lines of gravity, said member comprising a bearing plate having rearwardly a guiding recess and forwardly a girder hooking flange provided with a guiding recess in line with the guiding recess in the hooking flange, a hook integral with the upper side of said plate and in line with said guiding recesses, spaced apart vertical lugs integral with the upper side of said plate and aligned with the sides of said recesses and said hook and having a plurality of oppositely disposed registering bolt holes selectively arranged therein, a roller interchangeably arranged between said lugs with respect to the holes therein, and a flexible cable sling having loop engaged by said hook and adapted to extend therefrom through said guiding recesses and on the lower side of said roller and upwardly from the latter above the device.

1,682,440. AUTO CAMP BED. WILLIS A. SUTFIN, Marysville, Calif. Filed Feb. 14, 1925. Serial No. 9,124. 1 Claim. (Cl. 5—112.)

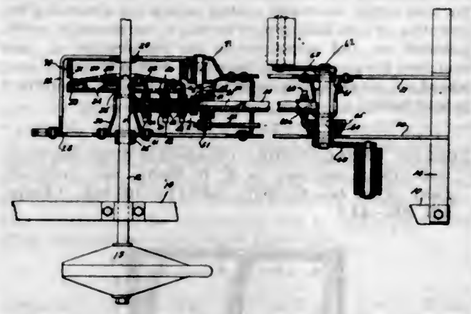
A bed frame including end rails, side rails pivoted at their ends to the end rails, legs pivoted to the side rails and foldably thereagainst, said side rails each being formed of two

sections of different lengths detachably connected at their adjacent ends whereby their sections may be folded parallel to the end rails and nested therein, a concave head board hinged to one end rail, a concave foot board detachably



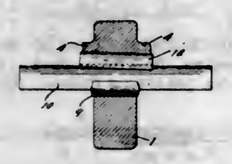
connected to the other end rail whereby the foot board may be removed and the frame collapsed within the head board, and latch means for connecting the foot board to the head board to form a case for the collapsed frame.

1,682,441. TRANSMISSION. ALEX TAUB, Detroit, Mich. Filed June 5, 1926. Serial No. 113,919. 4 Claims. (Cl. 208—154.)



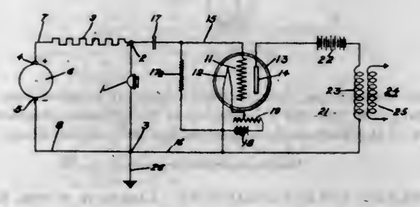
1. Driving mechanism for a toy vehicle consisting of a pedal driven lateral shaft, a longitudinal shaft, a face gear fixed on said lateral shaft meshing with a spur gear fixed to the longitudinal shaft, a plurality of other spur gears identical with the first mentioned one and loosely mounted on said longitudinal shaft, a driving axle for the vehicle, a compound face gear meshing with said plurality of spur gears and secured to said driving axle, and means for fixing at will to said longitudinal shaft a selected one of said plurality of spur gears.

1,682,442. PIVOT RETAINER. EDWARD G. THOMAS, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Sept. 2, 1925. Serial No. 53,968. 4 Claims. (Cl. 308—2.)



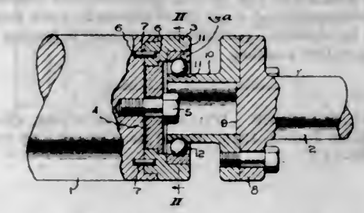
1. In a device of the character described, in combination, a lever having an opening, the walls of said opening being non-parallel, a pivot bar inserted in said opening, and means including a cylindrical member having a progressively deepened channel therein adapted to co-operate with the pivot bar and the walls of said opening for wedgingly retaining said pivot in place.

1,682,443. RESISTANCE MICROPHONE AND METHOD OF OPERATING THE SAME. PHILLIPS THOMAS, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 16, 1922. Serial No. 568,689. 5 Claims. (Cl. 179—1.)



1. In an electrical system, a circuit comprising a resistance microphone, a resistor and means for supplying said microphone with normal energizing currents, said resistor being of such value as to cause the current flow in said circuit to remain substantially constant, independent of variations in the resistance of said microphone incident to the presence of disturbing impulses, a thermionic device having grid, filament and plate elements, conductors connecting said grid and filament elements to opposite sides of said microphone, a condenser connected in one of said leads having a negligibly low reactance to currents of the lowest frequency to which said microphone is intended to respond, and a grid-leak circuit connected in shunt to said grid and filament elements.

1,682,444. FLEXIBLE COUPLING. WILLIAM E. TRUMPLER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 28, 1924. Serial No. 716,832. 7 Claims. (Cl. 64—91.)

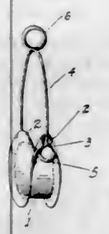


1. A flexible coupling comprising a pair of shaft members in coaxial alinement, a ring member secured to one of said shafts, a yieldable sleeve secured to the other of said shafts, and a plurality of balls interposed between said ring and sleeve to co-operatively engage the same.

1,682,445. TREE-SUPPORTING YOKE. JESSE D. TUCKER, Sacramento, and FRED C. OLDHAM, Yuba City, Calif.; said Jesse D. Tucker assignor to Tucker Brothers Manufacturing Company, a Copartnership of Sacramento, Calif. Filed Mar. 7, 1927. Serial No. 173,333. 1 Claim. (Cl. 47—42.)

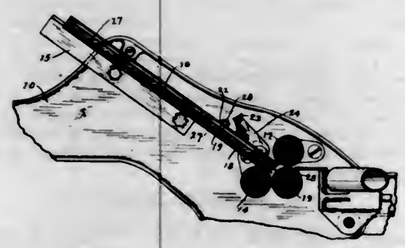
A tree supporting element including a two piece sling, one piece being a semi-circular channel shaped yoke, the sides of the channel being pinched together at their ends

to form eyes each having a slot in the side periphery thereof, the other piece of the sling comprising a substantially U-shaped resilient member having locking heads on its free



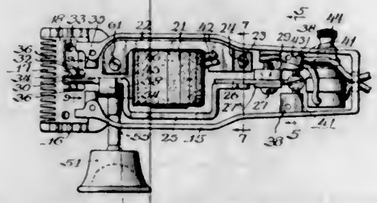
ends whereby the sides of the U-shaped member may be sprung into the eyes and the heads will prevent disassociation of the parts with a longitudinal pull on the sling.

1,682,446. FOLDING MACHINE. LESLEY R. TUFTS, East Cleveland, Ohio, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 23, 1926. Serial No. 137,252. 6 Claims. (Cl. 270—68.)



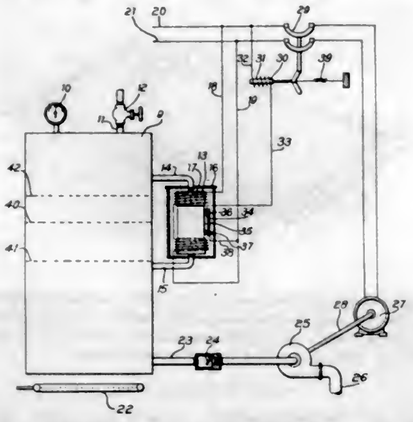
1. In folding machines, the combination of a frame, an adjustable fold plate, feeding and folding means operatively associated therewith, a deflecting member mounted on said fold plate and having operative and inoperative positions thereon, and stops for definitely locating said fold plate in its operative position or with said deflecting plate in its operative position.

1,682,447. CLIPPER. WILLIAM J. VAN OSDEL, Chicago, Ill. Filed June 3, 1926. Serial No. 113,412. 26 Claims. (Cl. 30—1.)



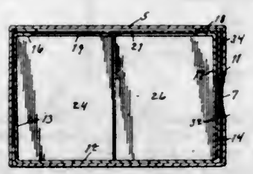
1. A device of the character described embodying a support, a reciprocable blade mounted on the support, means for reciprocating the blade comprising an electromagnet and an armature adapted to be actuated thereby, a resilient member connected with said blade, and a pin and slot connection between the armature and said resilient member.

1,682,448. CONTROL SYSTEM. VICTOR G. VAUGHAN, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 16, 1926. Serial No. 116,499. 4 Claims. (Cl. 219—38.)



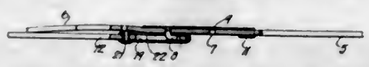
1. In a heating plant, a boiler, a container having communication at its top and bottom with said boiler, means for electrically heating said container, fluid supply means for said boiler, electrical control means for governing the operation of said fluid supply means, a thermostatic switch mounted on, and responsive to the temperature of, said container for governing the operation of said control means, whereby a substantially constant fluid level is maintained in said boiler.

1,682,449. DISPLAY BOX. CLARENCE D. VEST, San Francisco, Calif., assignor to A. B. Smith, San Francisco, Calif. Filed Jan. 31, 1927. Serial No. 164,905. 1 Claim. (Cl. 206—44.)



A display box of the character described, comprising a blank so folded as to form a bottom, sides and ends of a box, a top formed integral with said blank, said top having a window formed therein, an auxiliary side formed integral with said blank, said auxiliary side having openings and adapted to coincide with similar openings formed in one of said first mentioned sides, a transparent material interposed between said auxiliary side and in said butting side portion, said transparent material being folded over and upon said top portion, an auxiliary top portion formed integral with said blank and adapted to be folded upon said top portion in such a manner as to overlie said transparent material.

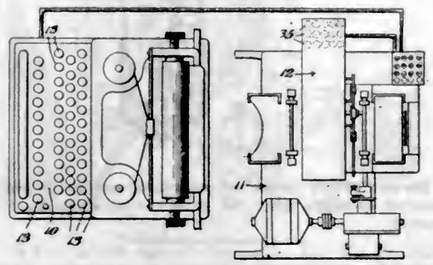
1,682,450. BELT BUCKLE. CURT K. WANNINGER and HERBERT HOFMANN, Bronxville, N. Y. Filed May 26, 1927. Serial No. 194,484. 7 Claims. (Cl. 24—77.)



1. The combination with one end of a belt having an elongated opening therein, of a doubled eye plate fitting over the end of the belt and secured thereto, the plate

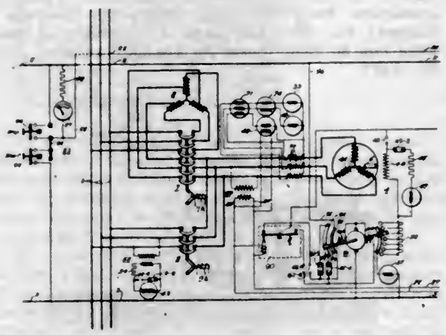
having elongated openings in one side thereof arranged to correspond with the belt end opening, a buckle on the opposite end of the belt and a hook on the buckle arranged to selectively engage the eye plate openings.

1,682,451. TYPEWRITER-KEY PUNCH. ALFRED WEILAND, Neshanic, N. J., HAROLD R. RUSSELL, Douglaston, N. Y., and CHARLES A. MEZGER, New Brunswick, N. J., assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Nov. 13, 1924. Serial No. 749,647. 8 Claims. (Cl. 164—113.)



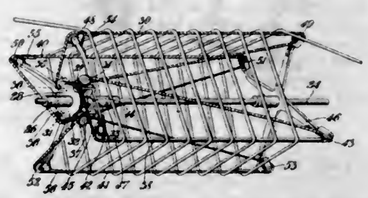
8. In a mechanism of the character stated, the combination of a typewriter and a perforating machine comprising a plurality of rows of punch set-up devices fixedly mounted against lateral movement on the machine, a punch selecting mechanism laterally shiftable over said set-up devices from row to row for operating said set-up devices, and means for operating said set-up devices singly for certain characters written on the typewriter and in combination for other characters written on the typewriter.

1,682,452. AUTOMATIC SUBSTATION. ROY J. WENSLEY, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 23, 1924. Serial No. 739,262. 27 Claims. (Cl. 171—118.)



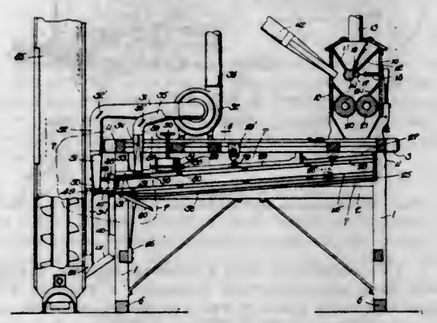
1. In an electrical system, the combination with two circuits, a rotating translating device, and automatic means for starting and operating the translating device from one of the circuits and for connecting the other circuit to the translating device to receive energy therefrom, of automatic means operative in response to predetermined conditions for starting and operating the translating device from the second-mentioned circuit and for connecting the first-mentioned circuit to the translating device to receive energy therefrom.

1,682,453. PROCESS AND APPARATUS FOR TREATING FABRICS. ARPAD WILLHEIM, Passaic, N. J. Filed May 18, 1927. Serial No. 192,233. 27 Claims. (Cl. 8—19.)



1. The process which comprises subjecting a fabric to treatment by a fluid while feeding the fabric in rope form spirally through the same while giving the fabric a movement laterally and at right angles to the axis of the spiral relative to the fluid.

1,682,454. COFFEE-CUTTING MACHINE. WILLIAM M. WILLIAMS, Chicago, Ill., assignor to B. F. Gump Co., Chicago, Ill., a Corporation of Illinois. Filed June 26, 1922. Serial No. 570,823. 15 Claims. (Cl. 83—12.)



1. In a coffee cutting machine, means for cutting the beans into granular pieces, aspirating means for removing the chaff, grading means, means including a conveyor for returning granular pieces of a predetermined size from the grading means to the cutting means, and means for sifting the granular pieces.

1,682,455. HAIR-WAVING DEVICE. MARY RUTH HARTIENS WILSON, Alexandria, La. Filed Nov. 16, 1927. Serial No. 233,703. 2 Claims. (Cl. 132—32.)

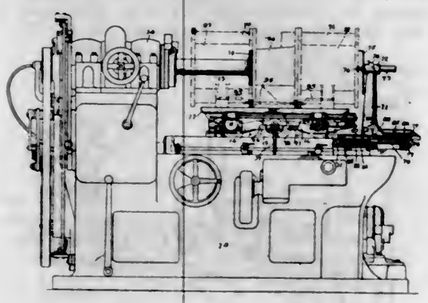
1. A device for imparting Marcel waves to the hair of a person, comprising a metal cap made up of loosely hinged sections shaped to correspond to the shape of the head of the user, corrugated longitudinally and apertured, said metal cap having its edges flanged and its rear flange provided with spaced apertures in a line with the outwardly

bulged portions of the corrugations, pins arranged in connected series and designed to be passed through the outwardly bulged portions of the corrugations and to have one



of their ends received through the apertures in the said flange and said pins, adjacent to their connected ends, being bent to engage with the outer flange of the cap.

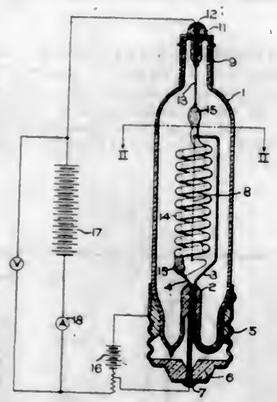
1,682,456. WORK SUPPORT. HENRY H. YERK and WILLIAM J. BAUMBERGER, Davenport, Iowa, assignors to Micro Machine Company, Bettendorf, Iowa, a Corporation of Iowa. Filed Mar. 12, 1925. Serial No. 15,050. 11 Claims. (Cl. 51—90.)



1. The combination with a grinding machine having a table fixed against vertical movement, a grinding wheel spindle rotatable about its own axis and in an orbital path about an axis eccentric to its own, and means for causing relative reciprocation between said table and spindle longitudinally of said spindle, of means for disposing a cylinder in cooperative relation to said grinding wheel spindle comprising a platform supported on said table and arranged to carry said cylinder, means for rotating said platform, and means for moving said platform vertically and maintain said platform in desired vertical position during a grinding operation, whereby to dispose said cylinder in desired relation to said spindle.

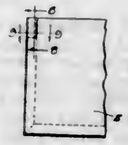
1,682,457. METHOD OF MAKING RESISTANCE DEVICES. VLADIMIR K. ZWORYKIN, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 2, 1926. Serial No. 133,140. 2 Claims. (Cl. 201—63.)

2. The method of making a high-resistance device which comprises the steps of providing an insulating carrier, causing the evaporation of conductive material from a source thereof, applying a negative potential to the carrier with reference to the source, causing the vaporized material to deposit on the carrier, passing a current through the material deposited on the carrier and stopping the vaporization



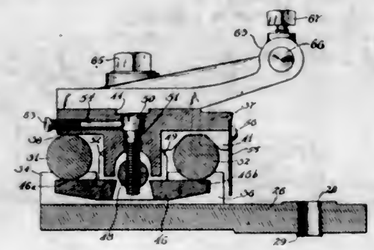
at the point where the current passing through the deposited material indicates that the proper resistance has been reached.

1,682,458. ENVELOPE. EUGENE F. AHLQUIST, Minneapolis, Minn. Filed Dec. 27, 1924. Serial No. 758,354. 6 Claims. (Cl. 229—68.)



1. An envelope comprising a front portion and a back portion, connecting pieces at the ends connecting the front and back portions together, said connecting pieces each having a portion which extends parallel with the back portion of the envelope and which is continuous, said back portion at the edge having two sections bent out of alignment, one section attached to the outer portion of the connecting piece, and the other section attached to the inner portion of the connecting piece.

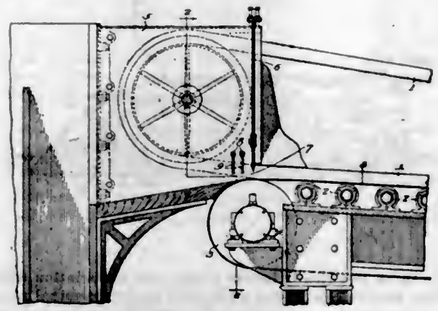
1,682,459. REAMER-GRINDING MACHINE. FRANS O. ALBERTSON, Sioux City, Iowa, assignor to Albertson & Company, Inc., Sioux City, Iowa, a Corporation of Iowa. Filed June 30, 1926. Serial No. 119,552. 3 Claims. (Cl. 51—240.)



1. In a machine of the class described, the combination of a mounting plate, a pair of parallel spaced cylindrical ways secured thereto, a carriage slidable over said ways, and means for securing said carriage to said ways comprising a clamp having a pair of upwardly extending lugs adapted to fit a downwardly projecting lug on said carriage, a shaft

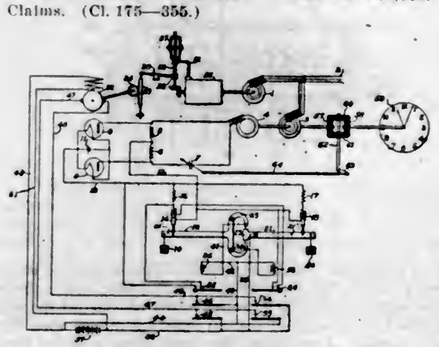
passing through said clamp lugs and rotatable therein, and a cap screw seated in said carriage and threaded diametrically through said shaft whereby said clamping member may be drawn toward said carriage, said shaft forming an equalizing means to distribute the clamping force between said ways.

1,682,460. MECHANISM FOR UNIFORMLY INTERWEAVING FIBERS. ALONZO ALDRICH, Beloit, Wis. Filed Nov. 11, 1922. Serial No. 600,209. 11 Claims. (Cl. 92—44.)



1. A Fourdrinier machine having its feed box provided with mechanism located within the feed box near the outlet thereof, for causing a lateral or transverse shifting agitation of the pulp to improve the paper formation, said mechanism comprising a plurality of agitating devices and means for actuating the same independently.

1,682,461. FREQUENCY REGULATOR. GEORGE Y. ALLEN, East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 5, 1923. Serial No. 672,709. 8 Claims. (Cl. 175—355.)

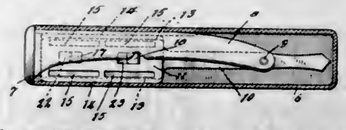


3. In a frequency-controlling system, a prime mover, a speed governor therefor, a spring controlling the normal position of said governor, a motor, means actuated by said motor for adjusting said spring, and frequency-controlled devices responsive to the speed of the prime mover and governing said motor.

5. In a frequency-controlling system, an alternating-current line, a high-frequency source actuated in accordance with the frequency in said line, a circuit, means acting in response to the difference between said high frequency and a standard high frequency for controlling the conductivity of said circuit, and means in said circuit for controlling the frequency in said alternating-current line.

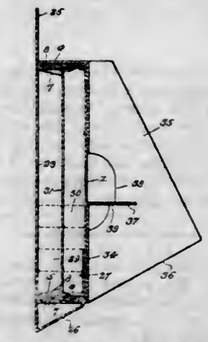
7. In combination, an alternating-current line, a frequency-regulating system therefor, including a tuned circuit, a clock, and means controlled jointly by the clock and the frequency in said line for regulating the tuning of said circuit.

1,682,462. SAFETY RAZOR. FERNANDO A. ALVARADO, New York, N. Y., assignor to Durham Duplex Razor Company, a Corporation of New York. Filed Feb. 5, 1927. Serial No. 166,088. 7 Claims. (Cl. 30—12.)



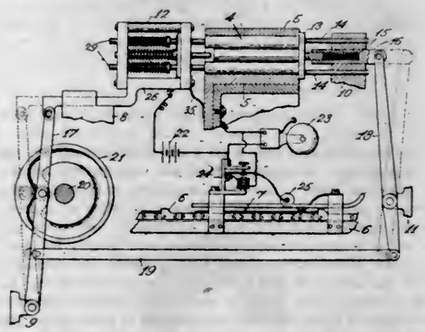
1. The combination with a razor blade having a cutting edge and two rectangular apertures spaced from said edge, of a rigid guard having a perforated zone behind said edge for escape of lather, said guard also having two rectangular apertures behind said zone one of which registers with one blade aperture and the other of which overlaps the other blade aperture, and a clamp having two flat offset lugs passing through said apertures and engaging said guard to clamp said blade thereto.

1,682,463. COMBINATION DISPLAY AND SHIPMENT BOX. CHARLES R. ANDERSON, Sidney, Ohio. Filed July 5, 1927. Serial No. 203,339. 8 Claims. (Cl. 206—44.)



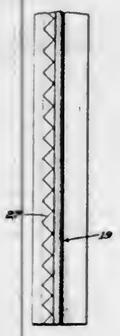
2. A combination display and shipment box including a back, side and end walls and a front wall having a bottom extension arranged in the plane of the front wall and provided with an inclined flap arranged at an angle to the lower end wall of the box and provided with a tongue extending interiorly of the box and secured to the same.

1,682,464. PACKAGE INSPECTION. CHARLES ARELT and JOHN JACKSON, Brooklyn, N. Y., assignors to American Machine & Foundry Company, a Corporation of New Jersey. Filed Apr. 29, 1927. Serial No. 187,685. 10 Claims. (Cl. 93—2.)



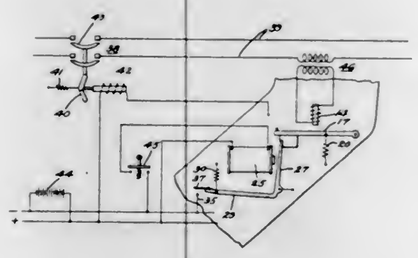
1. The combination with supporting means for assemblages of articles and for wrappers in which said assemblages are to be located, of detecting means for finding defects in any article in said assemblages, and marking means for defacing the wrapper for defective asssemblages.

1,682,465. WELTING. EDWARD W. ARNOLD, North Abington, Mass. Filed Dec. 17, 1927. Serial No. 240,717. 3 Claims. (Cl. 36—78.)



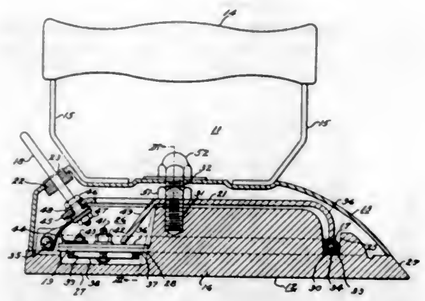
1. As an article of manufacture, welting for use in making welt shoes comprising a leather strip having flesh and grain faces and a slit incised through the grain face and extending toward the inner edge of the strip thereby forming a longitudinal feather, a filler having a portion of its width between the feather and the body of the strip, and a zig-zag line of stitching extending through the feather, filler and the body of the strip.

1,682,466. CONTROL APPARATUS. BASCUM O. AUSTIN, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 23, 1925. Serial No. 38,982. 4 Claims. (Cl. 175—294.)



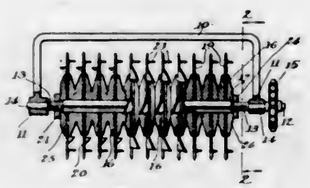
1. An overload trip device for an alternating-current circuit comprising, in combination, an alternating current relay provided with a movable armature, said relay being adapted to actuate the armature upon the flow of a predetermined current in said circuit, a direct-current relay provided with a spring-biased armature and means for energizing the direct-current relay to actuate its armature against the action of the spring, said armatures being disposed to engage one another, said spring-biased armature being disposed to dampen the movements of the alternating-current relay armature when the direct-current relay is deenergized, the alternating-current relay armature being provided with a notch to receive the spring-biased armature to effect the locking of one of the armatures in a predetermined position.

1,682,467. ELECTRIC IRON. CHRISTIAN B. BACKER, Brooklyn, N. Y. Filed June 16, 1926. Serial No. 116,268. 7 Claims. (Cl. 219—25.)



1. In an electrically heated device, the combination with a body portion comprising a heating element, terminal pins, and a thermally-actuable control switch, of a single member for supporting the terminal pins and for directly engaging the switch to hold it in proper operative position.

1,682,468. PULVERIZER-DISK CONSTRUCTION. THOMAS J. BARNES, Azusa, Calif. Filed Nov. 5, 1925. Serial No. 66,996. Renewed June 27, 1928. 2 Claims. (Cl. 97—220.)

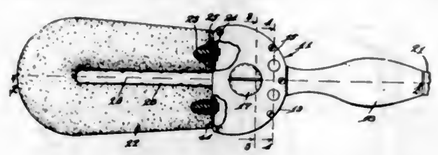


1. A pulverizer disc construction having a squared shaft between its end portions and screw threaded just outside of the square portion, a plurality of diabolo-shaped spacing members having squared central openings fitting upon the square portion of the shaft, the confronting faces of each spacing member being substantially flat, there being projecting pins upon the flat face of one part of each spacing member, discs constructed of sheet metal in segments fitting between the flat faces of the spacing members and having perforations therethrough to receive the pins, and jamb nuts upon the screw threaded portions of the shaft.

1,682,469. [WITHDRAWN.]

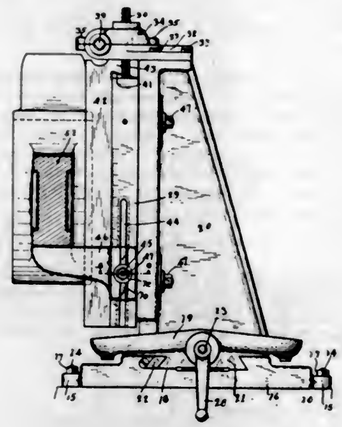
1,682,470. FOUNTAIN SOAP BRUSH. FRED H. BASSETT, Los Angeles, Calif. Filed June 29, 1927. Serial No. 202,234. 4 Claims. (Cl. 15—129.)

1. In the art described, the combination of a brush, a soap container having a water inlet from a source of supply and an outlet to the brush, a valve casing in the container having a pair of valves, said casing being connected to the water inlet, one of said valves controlling the flow of water



from the inlet into the container, and a by-pass from the valve casing in the container to the outlet, the other valve controlling the by-pass.

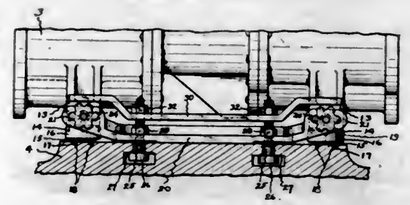
1,682,471. WORK SUPPORT. WILLIAM J. BAUMBERGER, Davenport, Iowa, assignor to Micro Machine Company, Bettendorf, Iowa, a Corporation of Iowa. Filed July 31, 1925. Serial No. 47,225. 7 Claims. (Cl. 51—217.)



1. In a grinding machine fixture, the combination of a supporting frame, a mounting plate carried by said frame, said plate extending in a vertical plane and having undercut slots in the ends thereof, a bracket extending transversely from the face of said plate for supporting one end of a piece of work, said bracket having a rib engaging within the slot in said plate, and means for securing said bracket rigidly with said plate in desired vertical position.

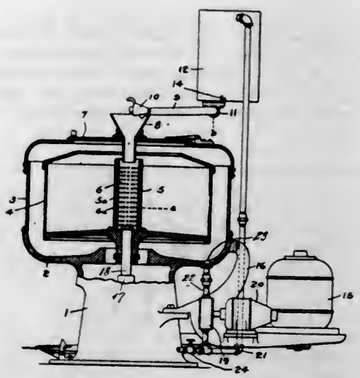
1,682,472. WORK-ADJUSTING MEANS. WILLIAM J. BAUMBERGER and HENRY H. YERK, Davenport, Iowa, assignors to Micro Machine Company, Bettendorf, Iowa, a Corporation of Iowa. Filed Apr. 26, 1926. Serial No. 104,559. 11 Claims. (Cl. 51—90.)

1. The combination with a grinding machine having a carrier bed, a grinding wheel spindle rotatable about its own axis and in an orbital path about an axis eccentric to its own, and means for causing relative reciprocation between said carrier bed and spindle longitudinally of said spindle, of means for disposing work having a cylinder to be ground in desired cooperative relation to said grinding wheel spindle, said means comprising a work supporting table mounted on said carrier bed and arranged to carry said work, pivotal supporting means for swinging said table in a horizontal plane to predetermined desired rotative positions, means for adjusting said table in a horizontal plane transversely of the grinding wheel spindle, independent means mounted on said work supporting table adjacent opposed sides of work to adjust the work laterally



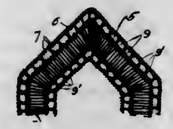
on said table, and independent adjustable means on said table to individually vertically adjust at least three spaced portions of said work with respect to said table.

1,682,473. CENTRIFUGAL MACHINE. JOHN W. BERCAW, Hamilton, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed Nov. 9, 1921. Serial No. 514,055. 3 Claims. (Cl. 210—67.)



1. A device of the character described comprising a container for the work to be treated, a smaller foraminous distributing container centrally mounted within said work container and of a height corresponding to the depth of the outer work container, means for rotating said inner container as the outer one rotates, and means for uniformly varying the foraminous characteristic of said distributing member thereby producing uniform radial discharge of the treating medium throughout the height of the batch.

1,682,474. DECORATIVE EMBROIDERY. ARTHUR BERGMAN, Brooklyn, N. Y., assignor to Trusogram Corporation, New York, N. Y., a Corporation of New York. Filed May 28, 1927. Serial No. 194,928. 6 Claims. (Cl. 2—278.)



1. As an article of manufacture, a decorative embroidery design having a central embroidered portion and a separately formed portion at the margin and closely following

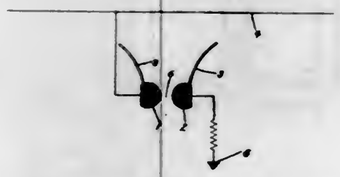
the contour of the central embroidered portion and providing means to be stitched to a piece to be decorated for attaching the embroidery design thereto.

1,682,475. MANICURING IMPLEMENT. AUGUST E. R. BLOMQUIST, Cleveland Heights, Ohio. Filed Sept. 20, 1926. Serial No. 136,474. 8 Claims. (Cl. 132—74.)



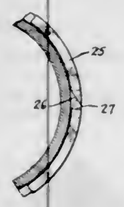
1. A power driven manicuring instrument comprising a stock having a longitudinal bore, a mandrel journaled within said bore, a grinding disk secured to one end of the mandrel, the stock having a crown portion which surrounds the disk, and a guard projecting from one edge of the crown portion beyond the nail engaging surface of the disk and designed to project between the underside of the nail and the adjacent portion of the finger.

1,682,476. LIGHTNING ARRESTER. EDGAR W. BREISCH, Edgewood, and FRANK B. FALKNOR, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 18, 1922. Serial No. 555,325. 4 Claims. (Cl. 175—30.)



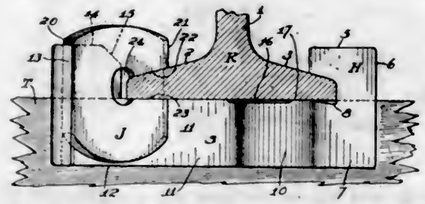
1. An outdoor lightning arrester adapted to be substantially unaffected by exposure to the weather and comprising a plurality of exposed spherical electrodes of porous porcelain compounded with carbonaceous material.

1,682,477. PISTON RING OR ASSEMBLY. CARL P. BROCKWAY, Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed July 27, 1922. Serial No. 577,842. 3 Claims. (Cl. 74—109.)



1. A piston ring for pistons of internal combustion engines, comprising a split ring adapted to be placed in a ring retaining groove of said piston, each of the ends of said ring having a bevelled surface and a non-bevelled surface, the bevelled surface of one terminating adjacent the non-bevelled surface of the other end and forming a cavity therewith.

1,682,478. RAIL ANCHOR. JOSHUA TWING BROOKS, Edgeworth, and EDMUND A. SKOWRON, Pittsburgh, Pa., said Skowron assignor to said Brooks. Filed Mar. 7, 1928. Serial No. 259,653. 19 Claims. (Cl. 238—329.)

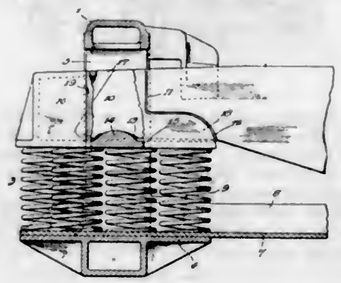


1. A two-piece rail anchor comprising a plate spring member having a vertical hook at one end adapted to engage one edge of the rail base and a lateral hook at the other end, a jaw member adapted to seat in said lateral hook to preliminarily engage the edge of the rail base and then to be driven into locked engagement with the rail by distorting the first member.

1,682,479. DOLOMITE CEMENT AND PROCESS OF PRODUCING THE SAME. FREDERICK W. BROWN, Columbus, Ohio, assignor of one-half to Gideon R. Austin, Bellefontaine, Ohio. Filed Nov. 10, 1924. Serial No. 749,060. 4 Claims. (Cl. 106—29.)

1. The herein described process which comprises heating dolomite substantially free from iron and silica by a rapid rise in temperature to substantially 1400° F., continuing to heat the dolomite to a temperature approximating 1600° F., for a period sufficient to calcine and hold the magnesium oxide content in combination with, yet insufficient to calcine the calcium content, and dyeing the resulting product in a water bath.

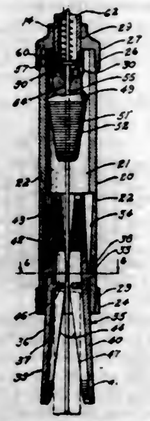
1,682,480. CAR TRUCK. SAMUEL PRESCOTT BUSH and JACOB CHRISTIAN LARSEN, Columbus, Ohio, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Filed Sept. 3, 1925. Serial No. 54,299. 5 Claims. (Cl. 105—197.)



1. In a car truck, the combination of a side frame having an opening therethrough, the floor of the opening being laterally expanded and constituting a spring seat, a spring plank having its end resting on the spring seat, side flanges on the spring plank terminating at and abutting the side side frame, spring resting on the spring plank, projections on the side frame bearing against the flanges on the spring plank, a bolster having its end extending into the side frame over the springs, and an equalizer between the bolster and the springs.

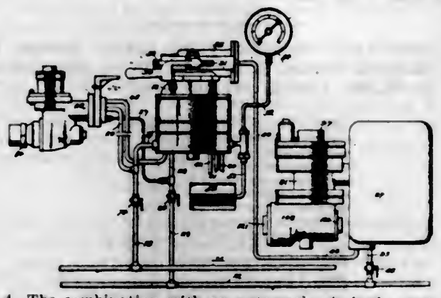
1,682,481. GRAB FOR USE IN WELLS. JOHN A. CADY, Los Angeles, Calif. Filed Aug. 3, 1926. Serial No. 126,820. 4 Claims. (Cl. 294—116.)

1. A grab comprising: a tubing; grab members; means carried at the lower end of said tubing for supporting said grab members; an engager attached directly to said tubing and being adapted to engage said grab members, thus causing them to grab a lost part, said lost part being lifted



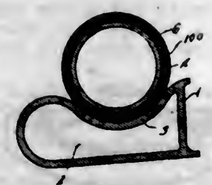
by means of said tubing, said engager, and said grab members; and a wash pipe extending from said tubing through said engager and inside said grab members.

1,682,482. AIR BRAKE. CHARLES ALBERT CAMPBELL, Watertown, N. Y., assignor to The New York Air Brake Company, a Corporation of New Jersey. Filed July 1, 1926. Serial No. 119,956. 13 Claims. (Cl. 303—66.)



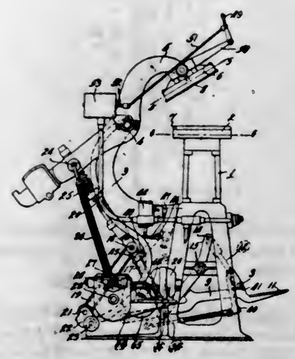
4. The combination with an automatic air brake system including a brake pipe and an engineer's brake valve having a brake pipe feeding function in one or more positions and an emergency application position in which said feeding function is suspended, of means operable by an emergency reduction of brake pipe pressure arranged when operated to shift said engineer's brake valve to emergency application position.

1,682,483. PADDING. EMIL J. CARROLL, Norwood, Ohio, assignor to The American Laundry Machinery Company, Norwood Station, Ohio, a Corporation of Ohio. Filed June 6, 1924. Serial No. 718,318. 2 Claims. (Cl. 68—9.)



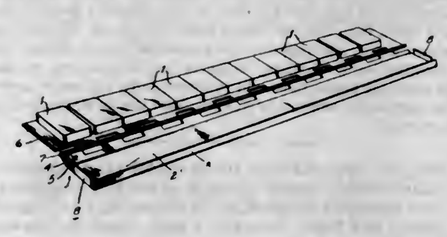
1. In an ironing machine, an ironing member provided with a padding formed of separate parts joined to each other and each made of a cork material, the joints between said parts being filled with cured material so as to seal the same.

1,682,484. ELECTRIC GARMENT PRESS. EMIL J. CARROLL, Norwood, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Original application filed July 31, 1922, Serial No. 578,702. Divided and this application filed Feb. 20, 1926. Serial No. 89,805. 2 Claims. (Cl. 68—9.)



1. A garment press, comprising relatively movable pressing members, electric motor means for operating said pressing members, circuits and controlling switch means for said motor means effective to cause the same to move the pressing members through two half cycles, one to bring them to rest in full pressure position, and the other to bring them to rest in release or open position, and additional control means for the circuits of said motor means effective to cause the same to move the pressing members continuously through a full cycle from release position to full pressure position and then back to release position, said additional control means being adapted to control said controlling switch means for said motor means so as to cause said pressing members to move according to either plan.

1,682,485. GAME-PIECE SUPPORT AND PROCESS OF USING THE SAME. WILLIAM L. M. CLARK, St. Louis, Mo. Filed Oct. 17, 1927. Serial No. 226,655. 1 Claim. (Cl. 273—150.)

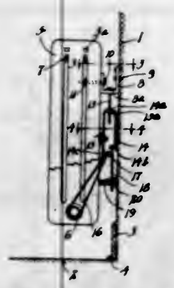


A game piece support comprising a plain strip adapted to receive game pieces and a strip having a flange along its edge and having an angularly disposed portion hinged to said plain strip whereby said flanged strip is foldable on said plain strip with its flange overhanging said game pieces to hold them in position on said plain strip and when said flanged strip is placed inclined on edge and said plain strip unfolded, the pieces are supported on said flanged strip with their opposite faces exposed.

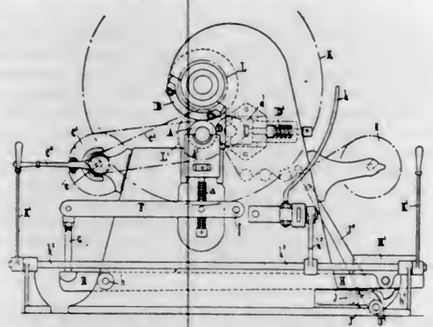
1,682,486. RADIATOR HANGER. JAMES J. CONROY, St. Paul, Minn. Filed May 29, 1924. Serial No. 716,673. 5 Claims. (Cl. 248—17.)

1. A device adapted to support a radiator having in combination, a bracket adapted to be secured to a wall, means adapted to secure said bracket to the upper portion of the

radiator, a member carried by said bracket, means for positioning and holding said member in different vertical and lateral positions, and a flexible means carried by said member adapted to extend outwardly and downwardly from said member and about the lower portion of the radiator for supporting the same.

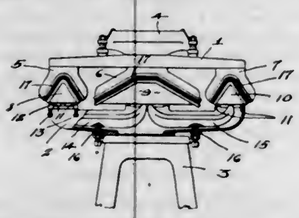


1,682,487. MACHINE FOR FINISHING TEXTILE FABRICS. ARTHUR CROMPTON, Manchester, England. Filed Feb. 24, 1927, Serial No. 170,725, and in Great Britain Mar. 11, 1926. 3 Claims. (Cl. 101—23.)



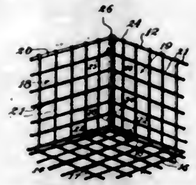
1. A machine for the production of ornamental finishes on textile fabrics comprising the combination with an embossing roller having a pattern thereon of a second heated roller having a polished surface and driven at a greater surface speed than the embossing roller, means for heating the second roller, bearings for the embossing roller, screws for adjusting said bearings, supports for the screws, means for applying pressure to said supports and a nip roller pressing against the embossing roller to hold the fabric in contact therewith.

1,682,488. EQUALIZING MECHANISM FOR PRESSING MACHINES. ERNEST DAVIS, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Jan. 3, 1927. Serial No. 158,492. 10 Claims. (Cl. 68—9.)



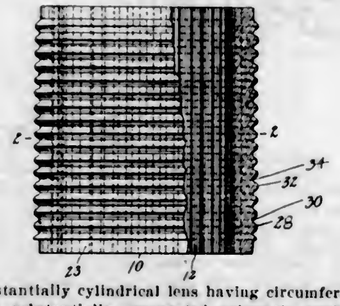
1. A pressing machine comprising coacting pressing elements, one movable toward and from the other, one of said elements comprising a plurality of members movable relatively to each other when unequal pressure is applied thereto by the other pressing element and equalizing mechanism to support said members and transfer the differential movement of either member to the other.

1,682,489. FOLDING CRATE. TITUS D. DERSHIMER, Clarks Summit, Pa. Filed Aug. 30, 1926. Serial No. 132,606. 1 Claim. (Cl. 220—7.)



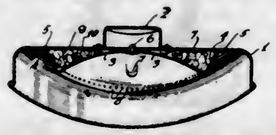
A receptacle comprising a bottom, side and end walls, each including an open bordering frame of rod metal and interwoven wires carried thereby, rings loosely connecting the bordering frames of said walls with the frame of said bottom and mounting the walls for swinging movement from an upright position to a folded position against the bottom, rings loosely carried by the frames of said walls at their ends and adapted to extend inwardly therefrom in vertical alinement when the walls are upright, and pins removably engaged in the last-mentioned rings to releasably retain the walls elevated, said pins each consisting of a rod straight throughout its length and at its upper end bent to form a head disposed above the walls whereby the pin may be gripped and slid longitudinally into and out of the rings at the ends of the walls.

1,682,490. FRESNEL-TYPE LENS. SIGMUND B. DRESSLER, Newark, N. J. Filed Oct. 3, 1925. Serial No. 60,236. 1 Claim. (Cl. 240—106.)



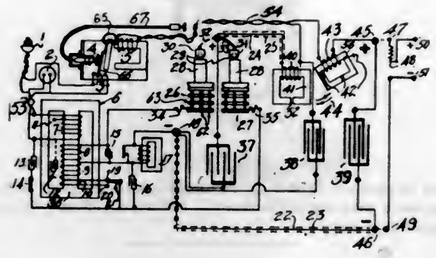
A substantially cylindrical lens having circumferentially arranged substantially corrugated prismatic surfaces on its outer face comprising ribs with rounded apices and grooves with rounded bases arranged between the ribs, and similar prismatic surfaces on its inner face arranged substantially parallel to the cylinder axis and at right angles to the prismatic surfaces on its outer face.

1,682,491. SANITARY COVER FOR GARBAGE CANS. WALTER J. EGAN, Brooklyn, N. Y. Filed Nov. 24, 1924. Serial No. 751,733. 1 Claim. (Cl. 220—87.)



An imperforate cover for garbage cans and other containers provided on its under side with a perforated casing, means for securing the center of the casing to the center of the cover with the center of the casing in face abutting relation to the center of the cover to form with the cover an annular chamber, said casing being under sufficient tension to maintain the periphery of the casing in engagement with the under side of the cover, and absorbent means positioned in such chamber for the purpose of retaining a disinfectant.

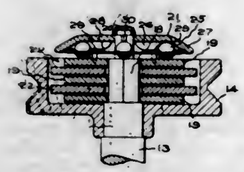
1,682,492. RADIO BATTERY ELIMINATOR. PHILIP E. EDELMAN, Chicago, Ill. Filed May 17, 1927. Serial No. 192,070. 8 Claims. (Cl. 175—363.)



1. In a radio battery eliminator, a filter circuit including a filter condenser having piezo-electric properties substantially dimensioned to draw energy from said circuit at low frequency for which same is proportioned.

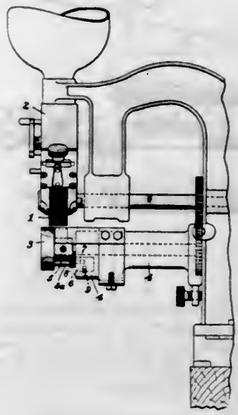
3. In a radio battery eliminator, a filter circuit including two choke coils having separate cores so placed that the mutual coupling between said coils causes ripple current flowing in one of said coils to be substantially opposed by electromagnetically induced ripple current supplied by the other of said two coils, and a by-pass condenser connected at the junction of said two coils.

1,682,493. CLUTCH. RALPH EHRENFELD, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 27, 1926. Serial No. 111,933. 4 Claims. (Cl. 192—105.)



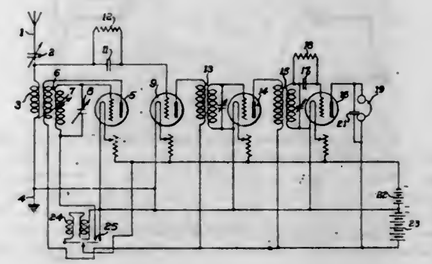
1. In a clutch, in combination, a plurality of interfitting clutch plates adapted to engage one another, ball members carried by one of the clutch plates and disposed to move outwardly under the action of centrifugal force, means cooperative with the ball members to effect engagement of the clutch plates as the balls move outwardly and a spring ring embodying alternate yielding and non-yielding portions and mounted on one of said clutch plates for preventing the outward movement of the ball members until the clutch plate rotates at a predetermined speed.

1,682,494. CEMENT-APPLYING MACHINE. HOWARD G. ELLIS, Waltham, and HERBERT A. MATHIS, Watertown, Mass., assignors to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed Apr. 12, 1927. Serial No. 183,124. 3 Claims. (Cl. 91—50.)



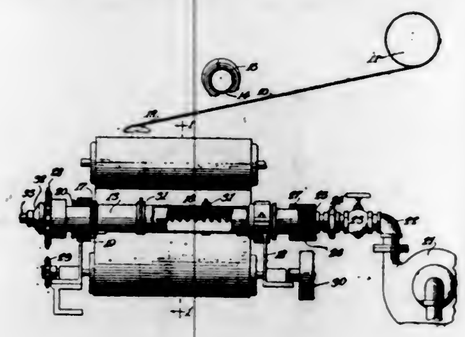
1. In a cementing machine having a cement applying roller and a juxtaposed work supporting roller and a fixed frame part adjacent said supporting roller, said frame part having a cylindric recess the axis of which is parallel to the axis of said supporting roller, a cylindric block seated in said recess and having an eccentrically located recess, a pin or shaft having one end seated in said eccentrically located recess, a take up roller carried by said pin or shaft and having its periphery located in close proximity to said supporting roller, and means for locking said cylindric block in its holding recess.

1,682,495. SUPERHETERODYNE RECEIVER. FRANK B. FALKNOR, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 29, 1923. Serial No. 683,356. 9 Claims. (Cl. 250—8.)



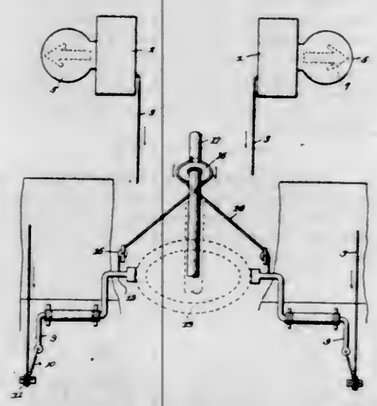
1. In a signalling system, means for producing signals of radio frequency, a receiving apparatus, including a heterodyne generator and producing from said signals corresponding signals of a frequency lower but above audibility, and means controlling the amplitude of the output of said heterodyne generator for producing audio-frequency modulations of said lower-frequency signals.

1,682,496. FELT WASHER. WILLIAM P. FEENEY, Cheboygan, Mich. Filed July 22, 1927. Serial No. 207,596. 12 Claims. (Cl. 92—50.)



1. A device of the class described comprising a stationary member having a longitudinal slot, a member adapted to be moved past said slot, said member having apertures extending therethrough, and means for forcing a fluid through the slot and apertures during the period of their registration.

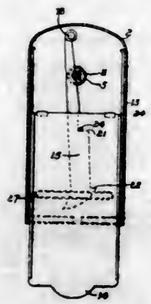
1,682,497. SIGNALING DEVICE FOR MOTOR CARS AND THE LIKE. GUILLERMO FRENKEL, Buenos Aires, Argentina. Filed Jan. 14, 1928. Serial No. 246,774. 6 Claims. (Cl. 116—36.)



1. A device for operating a signal for motor cars comprising a box adapted to be secured to the side of the car and having a signal associated therewith; a lever mounted adjacent the foot pedal of the car; a cable connecting the signal with the lever; and means connected to the steering post of the motor car and connected to the lever for operating the signal irrespective of the operation of the pedal.

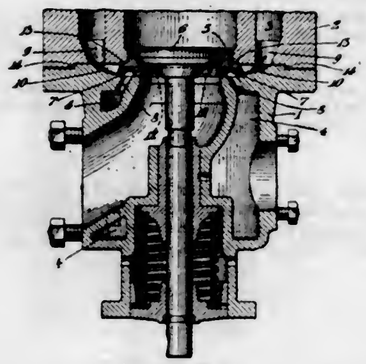
1,682,498. TRANSFORMER-LOAD INDICATOR. HARLAN S. GANO, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 21, 1923. Serial No. 633,803. 7 Claims. (Cl. 116—114.)

5. In an indicator, a frame, a lever provided with a plurality of shoulders mounted on said frame, a target slidably mounted in said frame, provided with means for selectively engaging said shoulders, a bimetallic member extending into said frame and engaging said lever whereby said target is successively released from the several shoulders



and permitted to fall to the next lower shoulder in accordance with the predetermined conditions of said thermo-responsive member.

1,682,499. VALVE CONSTRUCTION. HEWITT A. GEHRES, Mount Vernon, Ohio. Filed Nov. 18, 1926. Serial No. 149,065. 9 Claims. (Cl. 123—188.)

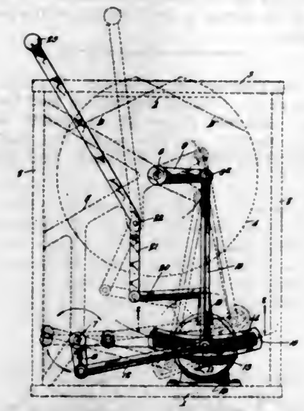


1. In combination, a wall having a chamber to receive circulating fluid, a valve housing connected to said wall, also having a circulating fluid chamber therein, a removable valve seat, and circulating fluid passageways associated with the above mentioned parts permitting the fluid to flow into direct contact with the valve seat in passing from one chamber to the other.

1,682,500. WASHING MACHINE. BENJAMIN E. GETZ, Morton, Ill., assignor, by direct and mesne assignments, of one-half to Getz Power Washer Co., Morton, Ill., a Corporation of Illinois, and one-half to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 14, 1923. Serial No. 631,967. 4 Claims. (Cl. 74—14.)

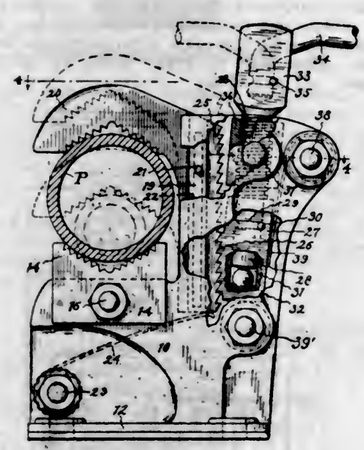
1. In a machine of the character described, in combination with a tub mounted for movement, of an operating means, a crank-like member connected with the tub, a guide

shoe, an adjustable support for said shoe, a lever for adjusting said support to change the position of said shoe, a member slidable in said shoe, an operating connection be-



tween said member and said crank-like member, and an operating connection between said member and said operating means.

1,682,501. VISE. LEE B. GREEN, Lakewood, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed Apr. 13, 1926. Serial No. 101,644. 6 Claims. (Cl. 81—28.)



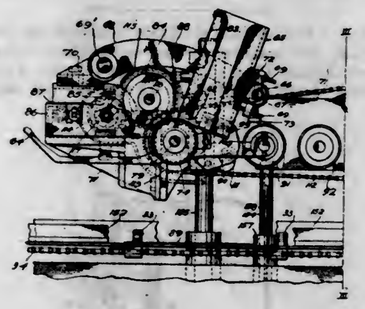
1. In vises, the combination of a stationary jaw, a sliding jaw, a member movable with said sliding jaw and independently thereof, said sliding jaw and said member having interlocking parts whereby the sliding jaw may be moved toward the stationary jaw by said member, a nut held in substantially fixed relation to said stationary jaw, and a screw in said nut and rotatably engaging said member to move the latter.

1,682,502. BASEMENT OR CELLAR PUMP. GEORGE T. GUSLER and OMAR H. SCHNELLE, Columbus, Ohio. Filed Feb. 7, 1927. Serial No. 166,336. 3 Claims. (Cl. 103—26.)



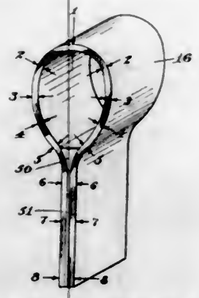
1. A cellar or basement pump including a board, an electric motor and a pump driven thereby on said board, said pump having a supporting connection with said board independently of the motor, said connection permitting a universal movement thereof in respect to the board, a slipping clutch between the motor shaft and pump impeller shaft, an electric switch for said motor and a float adapted to actuate the motor switch to cause the operation of the pump when the pump is primed.

1,682,503. CIGAR-BOX-STAMPING MACHINE. GEORGE W. GWINN, Hewlett, N. Y., assignor to International Cigar Machinery Company, a Corporation of New Jersey. Filed July 2, 1927. Serial No. 203,073. 19 Claims. (Cl. 216—2.)



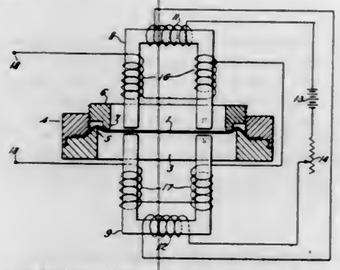
1. The combination with means for applying the leading ends of revenue stamps to corresponding surfaces of a succession of cigar boxes, of means for cancelling the applied stamps, means for attaching the trailing ends of the stamps to adjacent surfaces of the boxes, and means for successively presenting the boxes to said applying means, cancelling means, and attaching means.

1,682,504. RACKET AND ART OF MANUFACTURE THEREOF. HORACE W. HALL, Newton Center, Mass. Filed Nov. 21, 1925. Serial No. 70,530. 5 Claims. (Cl. 144—309.)



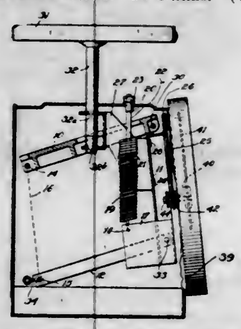
1. A laminated structure comprising a multiplicity of wood laminæ with glue absorbed into and set between them; some of said laminæ being of relatively strong and dense wood and other of said laminæ being arranged between the strong wood laminæ and being of less dense wood.

1,682,505. TELEPHONE INSTRUMENT. CLINTON R. HANNA, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 28, 1924. Serial No. 734,606. 2 Claims. (Cl. 179—180.)



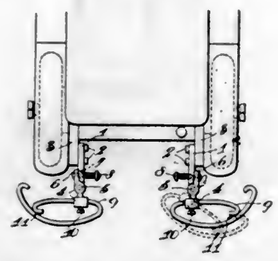
1. In a telephone instrument, a diaphragm, means for maintaining said diaphragm under tension, said tension being sufficient to bring a resonance frequency of the harmonics of said diaphragm above the range of audibility and magnetic means for counter-acting the effect of said tension upon the fundamental frequency of said diaphragm.

1,682,506. SCALE MECHANISM. MARIUS H. HANSEN, Chicago, Ill., assignor to Hanson Brothers Scale Company, Chicago, Ill., a Corporation of Illinois. Filed July 7, 1923. Serial No. 649,983. 13 Claims. (Cl. 285—68.)



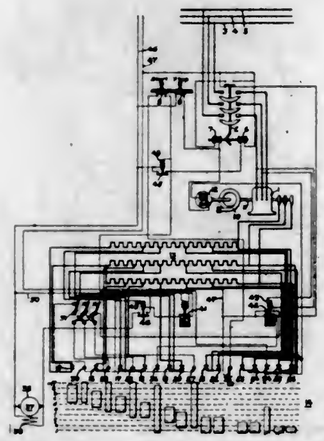
1. A scale mechanism having, in combination, a casing, four members arranged as a parallelogram, one of said members being fixed to the casing, the opposite being a rigid member and having a projection thereon, carrying a scale pan, the rigid member also having a spring extending to the casing, said spring being adapted to resist a weight on the scale pan, the position of the spring being such that the center of gravity of the weight when placed approximately centrally on the scale pan remains normally on the same side of the spring in the direction of the plane of the parallelogram.

1,682,507. AUTOMOBILE BUMPER. WILLIAM E. HART, San Jose, Calif. Original application filed Oct. 7, 1927, Serial No. 224,662, Patent No. 1,670,963, dated May 22, 1928. Divided and this application filed Mar. 24, 1928. Serial No. 264,381. 5 Claims. (Cl. 293—55.)



1. In bumpers, a bumper member, and a mounting bracket therefor, said mounting bracket comprising a main bracket member and an auxiliary bracket member hinged thereto and having an abutment portion to engage the main bracket member and prevent hinge action in one direction, and spring connections adapted to yieldably hold the said main bracket member and auxiliary bracket member in engagement for the purpose specified.

1,682,508. MOTOR-CONTROL SYSTEM. ALBERT L. HARVEY, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 12, 1922. Serial No. 587,655. 6 Claims. (Cl. 172—289.)



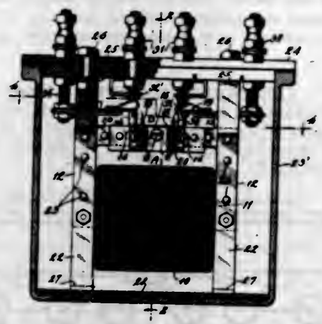
1. The combination with an alternating-current motor and a normally open circuited accelerating resistor therefor, of means for automatically connecting and excluding the resistor in successive steps, and a relay for delaying the initial operation of said means for any desired period.

1,682,509. PARACHUTE-OPENING DEVICE. CLARENCE R. HARWICK, Waterloo, Iowa. Filed July 19, 1927. Serial No. 206,921. 2 Claims. (Cl. 244—21.)



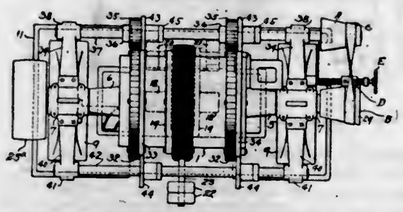
1. In combination, a parachute, a supporting body positioned centrally near it, a plurality of radial arms hinged to said body, terminally connected with the margin of the parachute and having apertured projections whose apertures register when the arms are collapsed, resilient means connecting said arms to said body placed under tension when the arms are collapsed upon said body, and a securing element removably seated in said projection apertures and releasably engaged with said body for releasably securing said arms to said body when so collapsed.

1,682,510. RELAY. CARL G. HARWIG, Chicago, Ill., assignor to The Regan Safety Devices Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 16, 1922. Serial No. 601,385. 4 Claims. (Cl. 200—104.)



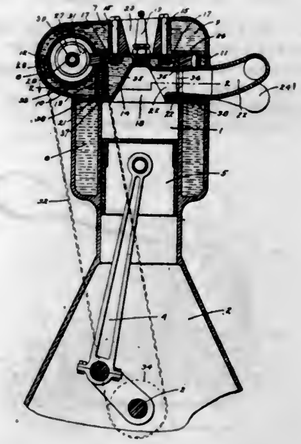
1. A relay comprising a stationary field magnet terminating in oppositely positioned poles, an armature coil arranged between said field poles and movable when selectively energized from a neutral position in opposite directions to either of two active positions, a stationary core within the coil forming part of the magnetic circuit of said field magnet, and independent contact means controlled by movement of said armature coil to either of its active positions, the said contact means including opposing elements active on the coil for biasing the same to its neutral position.

1,682,511. APPARATUS FOR CRUSHING MATERIAL. ANTON J. HAUG, Nashua, N. H. Filed Oct. 15, 1924. Serial No. 743,825. 26 Claims. (Cl. 92—26.)



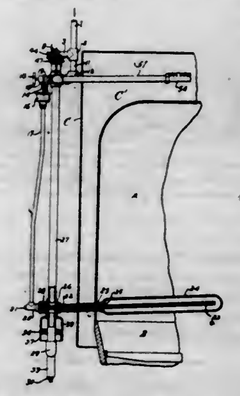
1. A materials working machine having means to rotate the materials and separate materials-advancing means arranged in a descending longitudinal direction toward the outlet of the machine.

1,682,512. INTERNAL-COMBUSTION ENGINE. HARRY S. HAYS, Moline, Ill. Filed Mar. 19, 1925. Serial No. 16,830. 1 Claim. (Cl. 123—80.)



A device of the class described, comprising a cylinder head formed of two parts having intercommunicating water-spaces, gas intake and exhaust passages extending through one of said parts into the center of said head, a hollow combustion head supported in said last-named part, and provided with an opening into said intake and exhaust passages, and having a central opening the walls of which converge upwardly to a spark-plug seat, means for adjustment of said combustion head with reference to the end of a cylinder with which the head is connected, a cylindrical valve rotatably mounted between said combustion head and cylinder head, provided with ports for successive register with said intake and exhaust passages, and a seal ring between said valve and combustion head, having an opening coinciding with the opening in said combustion head.

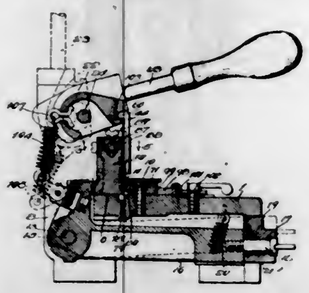
1,682,513. HUMIDIFIER. CHARLES E. HENDRIX, Jefferson City, Mo. Filed June 9, 1926. Serial No. 114,624. 9 Claims. (Cl. 126—113.)



1. In a device of the character described, a member adapted to be inserted in the combustion chamber of a furnace, means for supplying water to said member, a vapor-spraying device located at a point relatively remote from said member and in connection therewith, a valve for regulating the supply of water to said member, a regulating bar

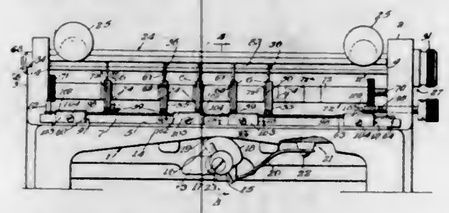
connected with said valve, and a thermostat associated with said regulating bar and adapted to be controlled by the heat of excess water supplied to said member whereby the amount of water supplied to said member is controlled.

1,682,514. MEANS AND METHOD FOR PRODUCING VERTICALLY-RULED PRINTING FORMS. WILLIAM C. HOLLISTER and LEO M. CHAPMAN, Chicago, Ill., assignors to Chicago Lino-Tabler Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 7, 1925. Serial No. 13,734. 29 Claims. (Cl. 164—91.)



3. In a machine of the kind described, a series of punch units spaced apart and clamped in upright position, each unit comprising a rigid holder and a punch movable up and down in the holder, the punch provided with a rearwardly extending projection at its upper end, a punch operator on the machine movable up and down and having a part adapted to be pressed down upon the upper end of the punch to force the punch down, and provided with a ledge below its top for engagement beneath the rearwardly extending projection on the punch for lifting same, said operator being bodily movable forward and back for engaging and disengaging the punch, said operator arranged to be swung up away from the punch when disengaged from same to permit the convenient adjustment of the punch unit in the machine.

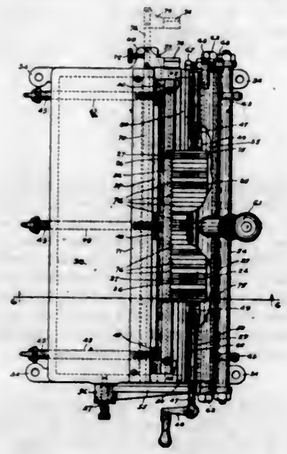
1,682,515. BROACH. WILLIAM C. HOLLISTER and LEO M. CHAPMAN, Chicago, Ill., assignors to Chicago Lino-Tabler Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 23, 1926. Serial No. 137,321. 14 Claims. (Cl. 164—91.)



1. In a machine of the kind described, a plurality of punch units, each comprising a punch housing and a punch movable therein, a carrier for said units, spacers for the punch units on said carrier, and means for clamping the units and spacers longitudinally of the carrier.

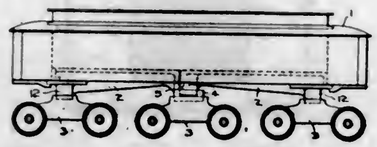
1,682,516. RULE-PUNCHING MECHANISM. GUSTAF E. WALLIN and EMIL G. MASENGARB, Omaha, Nebr., assignors to Chicago Lino-Tabler Company, Chicago, Ill., a Corporation of Illinois. Filed May 2, 1923. Serial No. 636,106. Renewed Apr. 4, 1927. 15 Claims. (Cl. 164—9.)

1. In a mechanism for punching column-rule notches in type-slugs and rules, a punch-unit comprising a longitudinally channeled housing, a punch-bar fitting slidably in the channel of said housing, and a perforating member adapted to traverse a recess extending into the housing



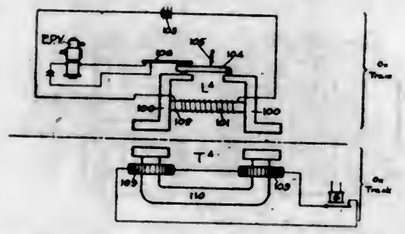
from one side thereof, said perforating member being integrally united throughout its length with one edge of the punch-bar whereby to be guided and supported thereby.

1,682,517. ELECTRIC LOCOMOTIVE. HAROLD A. HOUSTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 3, 1925. Serial No. 60,200. 8 Claims. (Cl. 105—175.)



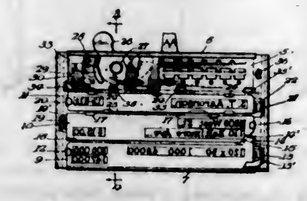
1. In a railway vehicle, a rigid cab portion, an articulated main frame therefor constituting the equipment deck of said vehicle, and a plurality of supporting trucks, each of said trucks being pivotally connected to said frame.

1,682,518. AUTOMATIC TRAIN-CONTROL SYSTEM. WINTHROP K. HOWE, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Original application filed May 24, 1919, Serial No. 299,488. Divided and this application filed Feb. 3, 1928. Serial No. 251,583. 2 Claims. (Cl. 246—63.)



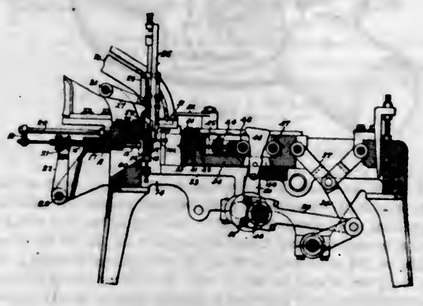
1. In an automatic train control system for railroads, a car-carried element having two magnetic side members connected by a core at an intermediate point, a biased movable armature cooperating with the upper ends of said side members and having contacts opened when said armature is retracted, an energized coil on said core producing flux for holding said armature in its attracted position, a trackway element having a core constituting a partial magnetic circuit for bridging the lower ends of said side members and thereby acting to shunt flux from said armature and cause retraction thereof, a winding on the core of the trackway element, and means for at times including said winding in a de-energized circuit of low resistance and at other times placing said winding on open circuit.

1,682,519. PRINTING DEVICE. HENRY E. HUBBARD, Chicago, Ill., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill., a Corporation of Delaware. Filed May 5, 1927. Serial No. 188,938. 4 Claims. (Cl. 101—369.)



1. A printing device of the character described comprising a frame, and three separate printing plate sections removably secured in place thereon one above the other, said frame having retaining means stamped therefrom to engage and hold the plate sections, and said means comprising a locking device for each plate section to engage an end thereof, said locking devices being disposed alternately at the ends of the frame to engage one end of the middle section and the opposite ends of the top and bottom sections.

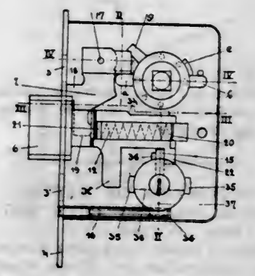
1,682,520. APPARATUS FOR PRODUCING CAP SCREWS AND THE LIKE. VINCENT HUSVAR, Waterbury, Conn., assignor to Scovill Manufacturing Co., Waterbury, Conn., a Corporation of Connecticut. Filed Jan. 5, 1922. Serial No. 527,116. 9 Claims. (Cl. 10—20.)



5. In a machine of the class described, and in combination, a hexagon cutting die, and non-cutting means for (a) forcing the head of a blank through said cutting die a sufficient distance to cause cutting of the facets up to a point adjacent the trailing end of the head, whereby a burr of waste metal is formed adjacent such end of the head, (b) clamping said waste burr against the face of the die, and (c) continuing the forcing of the head of the blank through the die in the same direction to sever the waste burr while the same is so clamped.

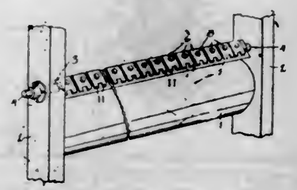
7. In combination, two metal-working dies arranged in tandem and having coaxial bores, the opposing faces of said dies having a channel formed therebetween leading to the bores of the dies and adapted for communication with a lubricating system.

1,682,521. DOOR LOCK. WILHELM HÜTTEMANN, Cologne, Germany. Filed Sept. 26, 1924. Serial No. 740,138. 6 Claims. (Cl. 292—170.)



1. A door lock of the type described comprising in combination an outer door handle, an inner door handle rotatable relative to the outer handle, a spindle for said inner handle a latch bolt, a follower connected to said outer door handle a rotatable ring coupled to the inner handle so as to move in unison therewith said ring being arranged at the side of the said follower rotatably about the spindle, means for causing the ring to engage with the follower and make the same turn directly when the inner handle is turned for operating said latch bolt, said ring being free to move independently in the reversed direction, and means for enabling the ring to arrest said outer handle independently of the latch bolt when the inner handle is turned in the direction opposite the normal one.

1,682,522. DOCTOR BAR. CLAUDE IVES, Otsego, Mich., assignor of one-half to Charley Pierce, Martin, Mich. Filed Jan. 16, 1928. Serial No. 247,130. 14 Claims. (Cl. 92—74.)

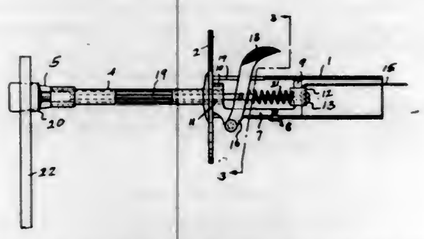


14. In a doctor bar, the combination of a resilient blade, and a plurality of blade supporting members provided with spring fingers engaging opposite sides of the blade.

1,682,523. ELECTRODE HOLDER. ANDREW C. JAMES, Houston, Tex. Filed May 21, 1927. Serial No. 193,150. 2 Claims. (Cl. 219—8.)

1. An implement of the character described including a tubular handle, a plate like guard fixed to said handle, a tubular shank attached to the handle at one end, a bracket fixed to the other end of said shank which terminates in an overturned fixed jaw, a U-shaped bracket in said handle whose ends are overturned into alignment one of said ends being formed with a bearing, a U-shaped clamp fitted over the other overturned end and having side arms which clamp said end, a lever, one end of which is pivoted to the bracket

in said handle and whose other end works through an elongated slot in said handle, a stem working through said bearing and handle and whose other end is provided with a

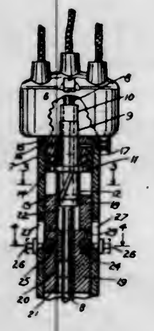


movable jaw and a coil spring operable against said lever and normally tending to hold movable jaw in cooperating relation with the fixed jaw.

1,682,524. COMPOSITION OF MATTER. ANDREW C. JAMES, Houston, Tex. Filed July 5, 1927. Serial No. 203,683. 1 Claim. (Cl. 148—23.)

A composition of matter comprising manganese, chromium, titanium, molybdenum and silicate of soda mixed together in approximately the proportions of 20% each of manganese, titanium, and chromium and 5% of molybdenum and 35% of silicate of soda.

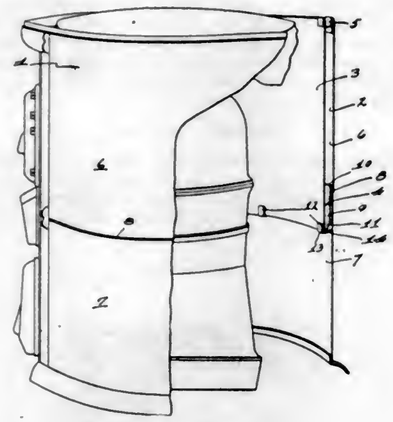
1,682,525. COMMUTATOR DISTRIBUTOR FOR INTERNAL-COMBUSTION ENGINES. ROMEO HANSON JOSEPHSON, Parramatta, near Sydney, New South Wales, Australia. Filed Dec. 15, 1925. Serial No. 75,543. 2 Claims. (Cl. 200—19.)



1. In a distributor for ignition systems of internal combustion engines, a vertically arranged tubular casing, a continuous drive-shaft extending axially through the casing and having thereon a contact arm, two sleeves mounted directly on said shaft, one above the other, said sleeves having helically engaged parts, said lower sleeve being keyed to said shaft and slidable longitudinally thereon and said upper sleeve being rotatable on the shaft and carrying a make and break operating cam, means for preventing movement of said upper sleeve longitudinally of the shaft, and means for moving the lower sleeve longitudinally of the shaft.

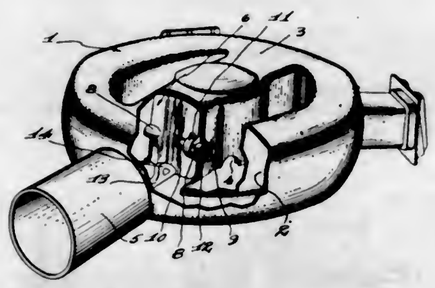
1,682,526. CASING HANGER. RICHARD M. JUDD, ERNEST C. TAYLOR, and JOSEPH WORTH, Dowagiac, Mich., assignors to Premier Warm Air Heater Company, Dowagiac, Mich., a Corporation of Michigan. Filed Feb. 13, 1928. Serial No. 254,110. 5 Claims. (Cl. 126—114.)

1. A hanger for the inner liner of a furnace casing comprising a body provided with an inwardly offset portion having a flange projecting upwardly therefrom and cooperating therewith to form an opening adapted to receive the lower edge of the inner liner, said upwardly projecting



flange being provided with a return bent portion having a laterally projecting flange adapted to engage the casing for spacing the inner liner from said casing.

1,682,527. DIRECT-DRAFT REGULATOR FOR WARM-AIR FURNACES. RICHARD M. JUDD, ERNEST C. TAYLOR, and RALPH S. MCNANEY, Dowagiac, Mich., assignors to Premier Warm Air Heater Company, Dowagiac, Mich., a Corporation of Michigan. Original application filed Jan. 24, 1927, Serial No. 163,219. Divided and this application filed Mar. 12, 1928. Serial No. 261,168. 7 Claims. (Cl. 126—285.)

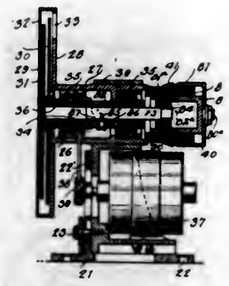


1. In a warm air furnace, the combination with a radiator, of a draft regulator therefor, and means for pivotally mounting said regulator within said radiator including recessed bosses forming integral portions of the walls of said radiator, the recessed portions thereof communicating with the interior of said radiator only, and pivot pins carried by said regulator and adapted for engagement in said bosses.

1,682,528. ROTATING-DISK PHOTOMETER. CARL W. KEUFFEL, Weehawken, N. J., assignor to Keuffel and Esser Company, Hoboken, N. J., a Corporation of New Jersey. Original application filed Feb. 15, 1923, Serial No. 619,168. Divided and this application filed Jan. 2, 1924. Serial No. 683,996. 15 Claims. (Cl. 88—23.)

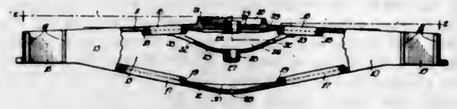
1. A photometer comprising two rotatable disks one located in front of the other and each provided with sectors

having fixed angular openings therebetween, means for adjusting and indicating the relative angular position of the sectors of the two disks while in motion, the sectors of one



disk extending radially beyond, and adapted to intercept rays of light not intercepted by, the sectors of the other disk, and means for shifting the axes of the disks.

1,682,529. TRUCK BOLSTER. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Mar. 23, 1927. Serial No. 177,488. 10 Claims. (Cl. 105—230.)

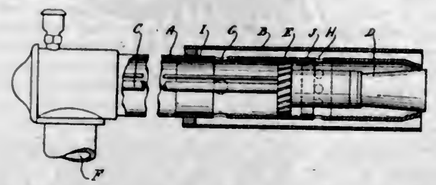


1. A railroad car truck bolster structure, comprising an upper web portion and side walls, and a reinforcing beam having side walls depending from said web portion and positioned below the center plate of said bolster.

1,682,530. FLOORING. CHAUNCEY C. LOOMIS, Yonkers, N. Y., assignor, by mesne assignments, to Latex Products, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 8, 1923. Serial No. 656,456. 9 Claims. (Cl. 94—19.)

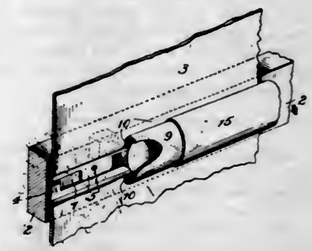
1. An improved flooring comprising dried non-vulcanized rubber latex and a filler and having a substantially large proportion of its rubber content in and adjacent to one surface thereof.

1,682,531. OIL BURNER. JAMES N. MACRAE, Jersey City, N. J., assignor to Petroleum Heat and Power Company, New York, N. Y., a Corporation of Delaware. Filed June 27, 1927. Serial No. 201,567. 6 Claims. (Cl. 158—76.)



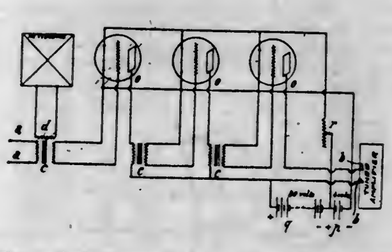
1. An oil burner comprising in combination, a rotary atomizer, an air driven turbine for rotating said atomizer, an air tube within which said turbine and atomizer are mounted, a secondary air tube surrounding said first mentioned tube, means for establishing communication between the tubes at each side of said turbine, and a common source of air for supplying the secondary tube and for driving said turbine.

1,682,532. VEHICLE BODY AND METHOD OF CONSTRUCTING THE SAME. HERMAN C. MAISE, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 7, 1923. Serial No. 679,177. 14 Claims. (Cl. 296—28.)



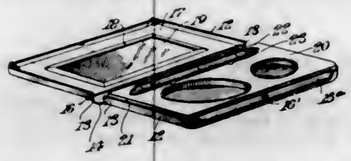
1. The method of constructing vehicle bodies, comprising the formation of a frame-work of wood or the like, prefashioning metal panels to form the exterior body, forming offset edge flanges on said panels, subsequently subjecting said pre-fashioned metal panels before application to the framework to an enameling process, securing the panels at said offset flanges only to the framework whereby to prevent marring of the enameled surfaces, and applying concealing strips to the joints between adjacent edges of the panels by means concealed by the concealing strips.

1,682,533. RECEIVING SYSTEM FOR ELECTRIC WAVES OR CURRENTS OF CONSTANT FREQUENCY. YVES MARREC, Suresnes, and RENÉ FULDA, Paris, France, assignors, by mesne assignments, to Marrec Limited, London, England, a Corporation of Great Britain. Filed June 1, 1922, Serial No. 565,070, and in France June 9, 1921. 2 Claims. (Cl. 179—171.)



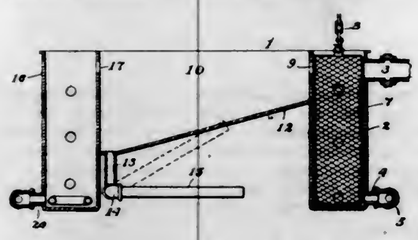
1. The method of operating upon electrical signal waves of constant audible frequency accompanied by parasitic waves of greater amplitude and different frequencies after detection, which comprises superposing thereon sustained local waves of a frequency bearing a simple ratio to that of the signal waves, passing the resultant waves through a non-resonant amplifier, and passing the waves from said amplifier through a second amplifier tuned to the frequency of the waves resulting from the superposition of the local waves on the signal waves, while reducing the ratio of amplification of waves above a given amplitude in proportion to the ratio of amplification of waves below said given amplitude to bring the amplitude of the amplified resultants of the parasitic wave down to substantially the level of the amplified resultant of the signal waves.

1,682,534. VANITY CASE. JEAN MARTINAT, New York, N. Y. Filed Dec. 9, 1927. Serial No. 238,739. 4 Claims. (Cl. 132—83.)



1. A vanity case comprising two similar case-like cover members meeting edge to edge at the end and front portions, a stiffening plate within one cover member carrying a mirror, a stiffening plate within the other cover member having receptacles for articles therein, and a link back connecting the two cover members.

1,682,535. SEPARATOR. CHRISTOPHER OFFENHAUSER, Philadelphia, Pa. Filed Dec. 8, 1926. Serial No. 153,297. 3 Claims. (Cl. 210—43.)



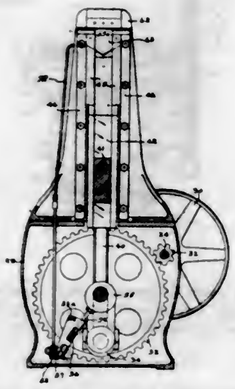
1. In a separator, a receiving tank, a discharge tank, an intermediate tank connecting said tanks and of greater length than width and having its sides converging downwardly and its bottom inclining downwardly in the direction of flow, said receiving tank having its upper end discharging into said intermediate tank, said intermediate tank having its upper portion discharging into said discharge tank, and means to withdraw liquid at different levels from said discharge tank.

1,682,536. BELT LOOP FOR CHAINS. LAWRENCE F. OTTEN, Newport, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky., a Corporation of Kentucky. Filed June 1, 1926. Serial No. 112,947. 3 Claims. (Cl. 24—3.)



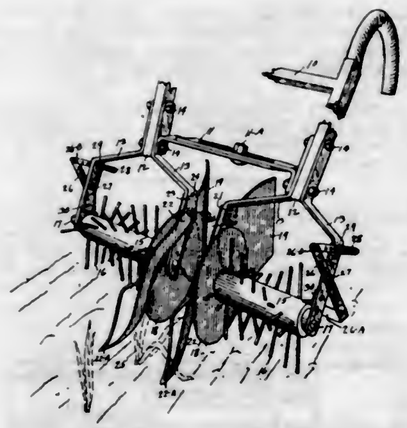
1. A belt-loop adapted to transversely and slidably embrace a belt and formed of resilient metal and comprising a rear plate having an upturned flange upon its free end and having a front plate integrally connected to said rear plate and spaced apart therefrom to form a belt receiving opening and provided with an inturned flange having a downwardly extending nib on its free end adapted to be sprung into detachable holding engagement with said upturned flange and to form a close fit therewith and with the inner adjacent wall of the rear plate.

1,682,537. POWER-PUMP WORKING HEAD. ALFRED RANDOLPH, Salem, Ohio, assignor to The Deming Company, Salem, Ohio, a Corporation of Ohio. Filed Aug. 24, 1925. Serial No. 52,162. 14 Claims. (Cl. 74—14.)



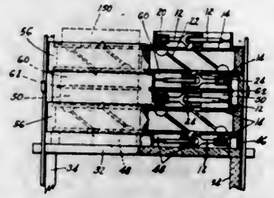
1. In a power head of the character described, the combination of a casing, a crank within the same, said casing having an upward extension, a slideway on the exterior of said extension, a slide mounted on the slideway, a wrist pin carried by the slide and extending inwardly through a slot in the casing, a pitman mounted at one end on the crank and at the other end on the wrist pin, said pitman and slide operating in parallel planes, means for connecting a pump rod to the slide, a gear on the crank shaft within the casing, and a driving shaft parallel with the crank shaft and having a pinion meshing with the gear.

1,682,538. CULTIVATOR AND WEEDER. ADOLPH L. RITTER, Sifton, Wash. Filed July 15, 1926. Serial No. 122,605. 4 Claims. (Cl. 97—58.)



1. A cultivator having, in combination, a pair of spiked cylinders; a frame for mounting said cylinders; a horizontal knife adapted to travel along the surface of the ground behind said cylinders; disks mounted between said cylinders; and means for adjusting the angularity and cutting depth of said knife.

1,682,539. SHIPPING APPARATUS. BERT J. SANFORD, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed June 30, 1926. Serial No. 119,732. 7 Claims. (Cl. 217—13.)



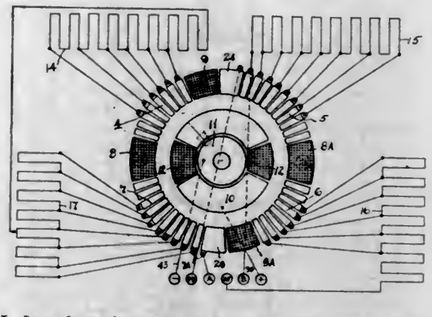
1. Apparatus for shipping brake assemblies, each of which assemblies includes a backing plate having an operating device projecting from one side and a set of shoes on its other side, the apparatus comprising, in combination with the brake assemblies, a base arranged to support the lowermost tier of brake assemblies shoe side down, a plurality of separators each arranged to support two tiers of brake assemblies the lower tier of which is shoe side up with the backing plates resting on the separator and the upper tier of which is shoe side down and rests on the lower tie, and means for detachably securing the base and the separators and the brake assemblies together.

1,682,540. CLOTHING TICKET. WILLIAM M. SCHLEGELMILCH, New York, N. Y., assignor to Keller Printing Company, New York, N. Y., a Corporation of New York. Filed Feb. 5, 1926. Serial No. 86,156. 3 Claims. (Cl. 283—18.)



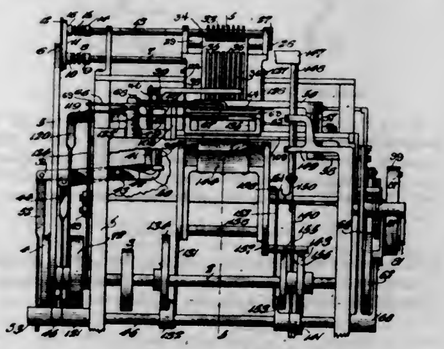
1. An improved clothing-ticket unit, comprising in initially integral and combined and separable association two distinct sets of individual tickets, one set constituting all the "shade" or "joker" tickets which are to be attached by the cutter for temporary identification of the cut pattern parts of a complete suit or garment, and the other set constituting all the garment tickets which are to be attached by the tailor for final identification of the respective finished parts of the made-up suit or garment when the temporary pattern tickets are removed, all of the tickets of both sets bearing corresponding identifying data and the temporary "shade" or "joker" pattern tickets being also identified and distinguished in differentiation from the final garment tickets, whereby there are initially assembled in a composite integral unit all the differential temporary pattern tickets and final garment tickets used in both the pattern cutting and complete make-up of a finished suit or garment.

1,682,541. ELECTRIC-CONTROLLER CONSTRUCTION. JAMES F. SCHNABEL, Cleveland, Ohio, assignor to The Clark Controller Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 7, 1927. Serial No. 181,677. 8 Claims. (Cl. 201—48.)



5. In a face plate type of controller, the combination of a face plate having contact plates and four groups of contacts, banks of resistors connected to said groups of contacts, and a crossed controller arm having contact brushes adapted to engage with said four groups of contacts and plates to simultaneously control all of said banks of resistors from said contact groups and plates during movement of said controller arm in both directions from the normal off position, two of said brushes being connected to line terminals to place two of said banks of resistors in the line circuit, and two of said brushes being electrically connected to each other to place the other two resistance banks in a closed circuit for control purposes.

1,682,542. TOBACCO BLENDING AND FEEDING MECHANISM. WALTER H. SCHUSSLER, Philadelphia, Pa., assignor to The Schussler Tobacco Machine Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 8, 1925. Serial No. 48,955. 7 Claims. (Cl. 131—39.)

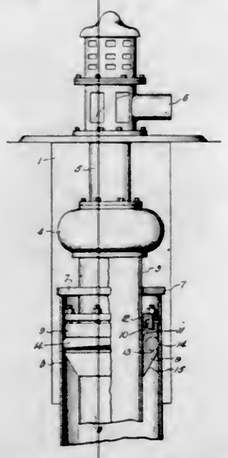


1. In a tobacco machine, means to feed different blends of tobacco into separate magazines, means to feed the blends from their magazines, mechanism to cut off the tobacco which has been fed, means to bring the blends together to form a sized charge, and delivery mechanism to remove the charges.

1,682,543. WELL SEAL. STARLEY WHITE, Stuttgart, Ark. Filed Mar. 21, 1927. Serial No. 177,167. 2 Claims. (Cl. 166—10.)

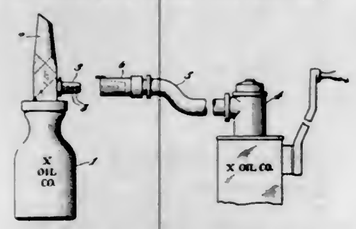
1. A well seal, comprising an annular member having an internal annular packing chamber, an independent external annular chamber and a frusto conical portion extending

from the outer edge of said external chamber inward to the bore of said member, packing in said external chamber, packing in said internal chamber, a gland for said internal



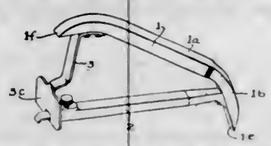
chamber, and means for tightening said gland to compress said internal packing independently of said external packing.

1,682,544. COMBINATION INFLOW-CONTROLLING AND FLUID-DISCHARGE MEANS. MARVIN S. YOUNG, Scarsdale, and ABRAHAM NOVICK, Flushing, N. Y.; said Novick assignor to said Young. Filed Feb. 28, 1927. Serial No. 171,579. 9 Claims. (Cl. 221—28.)



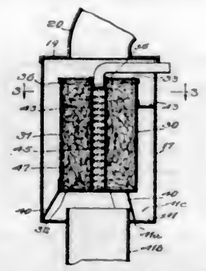
1. As a new article of manufacture, a bottle top for dispensing receptacles, said top being provided with a filling spout of irregular contour apertured to admit fluid therein, and a pouring snout provided with a valve to permit outward flow only and a series of baffles preventing access to the valve.

1,682,545. COMBINATION SCRAPER AND JOINER. REINHOLD ZINN, Cleveland, Ohio. Filed Mar. 7, 1927. Serial No. 173,274. 6 Claims. (Cl. 72—138.)



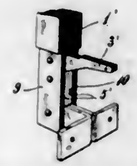
4. A tool of the character described, comprising a triangular open metal frame, one leg of the triangle extending beyond both adjacent legs with the outer surfaces thereof curving inwardly, there being a depth gauge and a relatively adjustable scraping tool projecting beyond the gauge for scraping the surplus mortar previous to smoothing the joints with said first mentioned leg, said depth gauge and scraping tool being positioned at the inter-section of said adjacent legs.

1,682,546. AIR-CONDITIONING APPARATUS. CHARLES A. BANGERT, Ocala, Fla. Filed Sept. 19, 1925. Serial No. 57,412. 6 Claims. (Cl. 261—97.)



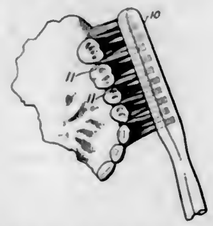
1. In apparatus of the kind described and in combination, a housing having an outlet opening in the lower end thereof and having an air intake opening, a tube disposed in the outlet opening and extending into the housing above the bottom wall thereof, a perforate cage within the housing and spaced from the walls thereof, porous material disposed within the cage, and means for supplying water to the porous material.

1,682,547. ELECTRICITY METER. WILLI BEUSCH, Zug, Switzerland, assignor to the Firm Landis & Gyr A.-G., Zug, Switzerland. Filed Aug. 6, 1923, Serial No. 656,042, and in Switzerland Aug. 18, 1922. 2 Claims. (Cl. 171—264.)



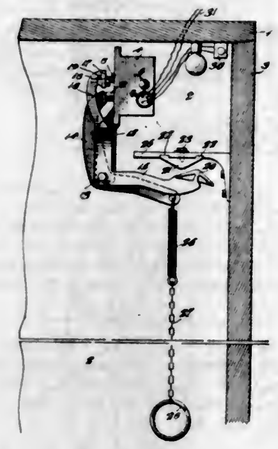
1. An induction meter comprising in combination a laminated pressure core, a laminated core for the main current magnet, two spaced apart groups of laminations of the pressure core being extended down as far as the lower edge of the main current magnet core, the center group of laminations of the pressure core between said two spaced apart groups being extended to form a counterpole at about the level of the top of the main current magnet, the center laminations terminating with the counterpole and leaving a space below them, and a bracket positioned in the space below the counterpole and having arms for supporting the main current magnet.

1,682,548. TOOTHBRUSH. THOMAS W. BIGONEY, Philadelphia, Pa. Filed Jan. 25, 1928. Serial No. 249,228. 4 Claims. (Cl. 15—167.)



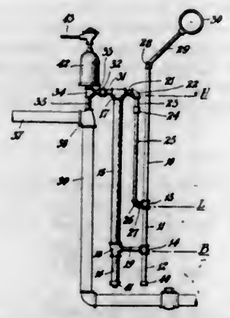
1. A toothbrush having a bristle support and a plurality of parallel transversely extending rows of tufts of bristles, there being the same number of tufts in each row, and the alternate rows being offset transversely of the bristle support, whereby each alternate row at one end, and each of the other rows at the opposite end, has an outstanding tuft relatively unsupported by the other tufts, and having relatively greater freedom of movement.

1,682,549. ELECTRIC-CIRCUIT CONTROLLER. HENRY E. BILLERBECK, Glenside, Pa. Filed July 15, 1927. Serial No. 205,864. 6 Claims. (Cl. 200—54.)



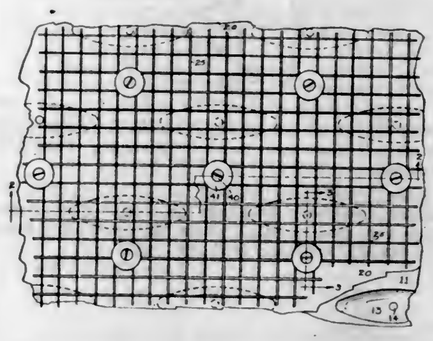
1. In an electrical control, the combination with a switch having a push button to close the circuit and a push button to open the circuit, of a door controlled lever to actuate one of said push buttons, and manually actuated means to actuate the other of said push buttons.

1,682,550. PRESSURE-CONTROLLING LIQUID SEAL. ALFRED L. BROWNE, East Orange, N. J. Filed Feb. 20, 1924. Serial No. 694,030. 2 Claims. (Cl. 137—53.)



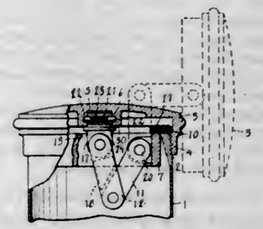
1. A pressure-controlling liquid seal comprising in combination, an upwardly extending leg, a second upwardly extending leg, said legs consisting of standard pipe and pipe fittings, means consisting of a laterally extending standard pipe and standard pipe fittings connecting said legs below the minimum liquid level, and means consisting of standard pipe and standard pipe fittings connecting said first leg substantially at the minimum liquid level to said second leg substantially at the maximum liquid level.

1,682,551. METAL FOUNDATION FOR COMPOSITE FLOORS. HAROLD B. CHAMBERLAIN, East Orange, N. J., assignor to The Tuco Products Company, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1927. Serial No. 165,673. 1 Claim. (Cl. 72—70.)



The combination of a hollow metal base having a top of sheet metal, a sheet of insulation on such top, wire mesh on top of the insulation, fastening devices applicable entirely from above and passing through the wire mesh and insulation into the top sheet, and a layer of cementitious material above the wire mesh.

1,682,552. RADIATOR CAP OR THE LIKE. GEORGE LEHMAN CHAPEL, Grand Rapids, Mich., assignor to W. B. Jarvis Company, Grand Rapids, Mich. Filed Nov. 3, 1927. Serial No. 230,805. 9 Claims. (Cl. 220—24.)

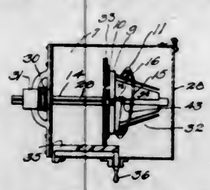


1. The combination of an externally threaded neck, a cap internally threaded to coact therewith and having a central inwardly facing swivel member socket provided with an annular groove, an anchoring member within said neck, a swivel member having a transverse bore therethrough arranged in said socket, retaining pins arranged in said bore in said swivel member to engage said groove of said socket, a spring disposed between said pins yieldingly supporting them in groove engaging position, and links pivotally connected to each other, one of said links being pivotally connected to said swivel member and the other to said anchoring member.

1,682,553. FILM-WINDING MECHANISM. RAYMOND B. CLARK, Freewater, Oreg. Filed Aug. 30, 1926. Serial No. 132,390. 8 Claims. (Cl. 88—18.7.)

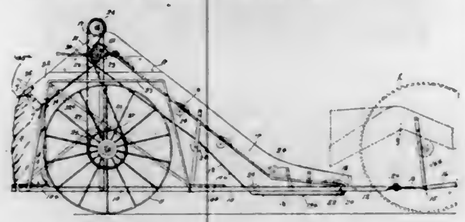
1. In a film winding mechanism, a shaft, a reel rotatable with and removably supported by said shaft, and comprising two separable major parts, a base part and a cap part, said parts being co-operable and adapted to assume diverging planes during operation, each of said parts hav-

ing its own respective hub, said hubs being arranged for slidable and lockable engagement, and means mounted on and rotatable with said shaft, and carrying said reel to form



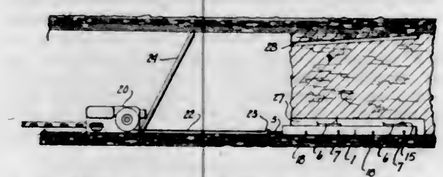
convolutions of the film of decreased diameter and to insert the last convolution under the preceding convolution of the film.

1,682,554. POTATO PICKER AND BAGGER. PETER DAHLMAN, Grandy, Minn. Filed Mar. 16, 1923. Serial No. 625,602. 3 Claims. (Cl. 209—59.)



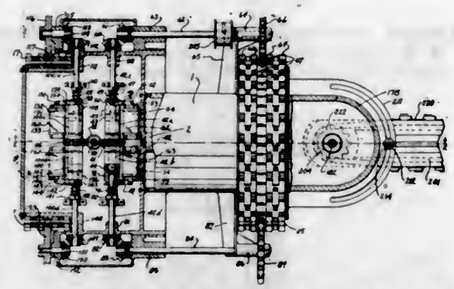
1. A potato picking and bagging device adapted to be connected to and drawn by a standard potato digger comprising a potato delivering means having in combination, a wheel-supported frame, an upwardly inclined open bottom through at one end of said frame extending at one side of and with its center line substantially at right angles to the axis of said wheels, an endless conveyor movable in said trough, said trough and conveyor having their lower ends disposed substantially in horizontal position and constructed and arranged to extend beneath the delivery end of said potato digger to receive potatoes therefrom, a chute longitudinally alined with said trough extending downwardly from the upper end of said trough and at the other side of said axis adapted to receive the potatoes from said conveyor, and means for supporting and holding bags at the lower end of said chute for receiving the potatoes discharged therefrom.

1,682,555. MECHANISM FOR DISINTEGRATING DISLODGED MATERIAL. KENNETH DAVIS, St. Benedict, Pa., assignor, by mesne assignments, to Rembrandt Peale, W. Sanders Davies, and William S. Wallace, trustees. Filed Sept. 20, 1921. Serial No. 502,036. 17 Claims. (Cl. 262—12.)



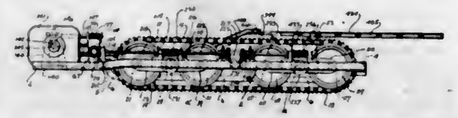
1. A device for breaking up dislodged material comprising in combination two relatively slidable elements, a projector pivoted to one of the elements to swing upwardly, a cam member, carried by the other element, engageable with the free end of the projector, the projector being pivoted so that when a pull is exerted on the said other element carrying the cam member, the projector swings about its pivot in a direction away from the direction of the pull.

1,682,556. MINING MACHINE. KENNETH DAVIS, St. Benedict, Pa., assignor to Rembrandt Peale, Richard Peale, and Rembrandt Peale, junior, trustees. Filed Apr. 21, 1923. Serial No. 633,605. 63 Claims. (Cl. 262—30.)



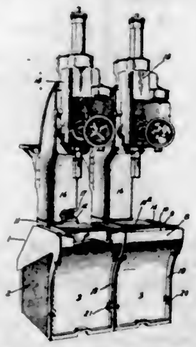
1. A mining machine including in combination a frame, traction devices for driving the machine, a kerf cutter carried by the frame at one side thereof and outside with respect to the adjacent traction device, and means including a motor positioned between the traction devices and on substantially the same level therewith for driving the kerf cutter.

1,682,557. MINING MACHINE. KENNETH DAVIS, St. Benedict, Pa., assignor, by mesne assignments, to Rembrandt Peale, W. Sanders Davies, and William S. Wallace, trustees. Filed Dec. 26, 1923. Serial No. 682,691. 47 Claims. (Cl. 262—28.)



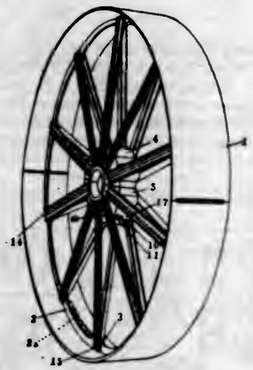
1. A mining machine including in combination traction means the ground engaging base of which is variable in length, a kerf cutter, a driving motor therefor, a support for the cutter and motor movable relatively to the traction means to positions determined by the variations in length of the ground engaging base of the traction means, to vary the vertical location of the kerf in the vein, and means for moving the kerf cutter relatively to the body of the machine to cut a kerf.

1,682,558. DRILLING MACHINE. THEODORE H. DOAN, Jr., Cleveland Heights, Ohio, assignor to Foote-Burt Company, a Corporation of Ohio. Filed Nov. 27, 1925. Serial No. 71,556. 3 Claims. (Cl. 77—22.)



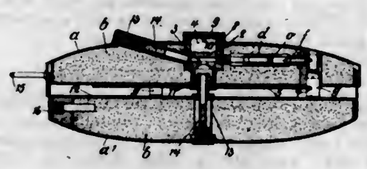
1. In a drilling machine, the combination of a base comprising side walls, a front wall, a rear wall and a downwardly and rearwardly sloping top wall, said side walls and front wall having extensions which project above the top surface of the top wall to provide a surrounding flange, a projection on the top wall which provides a table for the machine, an upright support on the top wall, said projection and upright support being spaced from said surrounding flange to provide grooves which slope toward the back of the machine for carrying away chips and cutting substance, and said side walls being flat whereby a plurality of machines may be arranged side by side and each deliver independently its chips and cutting substance to a common receptacle.

1,682,559. SPLIT PULLEY. HENRY J. GILBERT, Saginaw, Mich., assignor to Saginaw Manufacturing Co., Saginaw, Mich., a Corporation. Filed July 21, 1924. Serial No. 727,285. 2 Claims. (Cl. 64—18.)



1. A pulley comprising half-rims, each formed of a single piece of folded sheet metal rolled to semi-circular shape and having an internal rib of shallow radial depth and inwardly projecting ears integral with each rib, a pair of hub sections each comprising two shaft-gripping members spaced apart lengthwise, a housing consisting of a hollow annular shell of U-shaped section connecting said members, clamping bolts through said hub sections at places intermediate said spaced gripping members and located in longitudinally offset relation, spoke-receiving faces on the outer walls of said housing, each face disposed in a plane that includes one of said ears, and spokes, each secured at its outer end to one of said ears and at its inner end to one of said spoke-receiving faces.

1,682,560. EXPLOSIVE MINE. HANS GRÜBER, Muhldorf, Germany. Filed Nov. 14, 1927, Serial No. 233,025, and in Germany May 18, 1925. 12 Claims. (Cl. 102—2.)

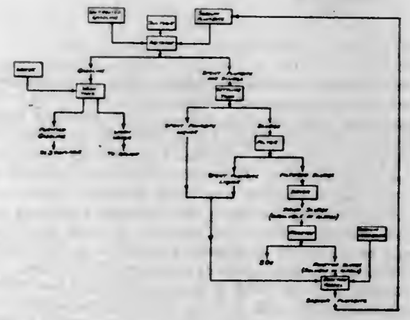


1. In an explosive mine, the combination of a disk-shaped casing, an explosive charge contained in said casing, an igniter tube arranged radially in said casing, a spring actuated striking bolt arranged in said igniter tube, a transversely arranged pressure operated member for retaining said striking bolt and a shearing pin for holding said pressure member below a predetermined pressure.

1,682,561. MOTOR FUEL. EARL C. HENNEN, Charleston, W. Va., assignor to The United States Nito Co., Inc., Columbus, Ohio, a Corporation of Delaware. Filed Mar. 7, 1928. Serial No. 259,926. 4 Claims. (Cl. 44—9.)

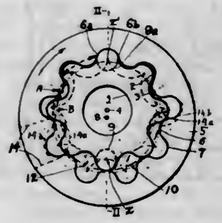
1. A fuel composition for internal combustion engines consisting of hydrocarbon motor fuel material, a lubricant comprising a high heat test lubricating oil and castor oil, and a coal tar product comprising benzol and paranitrochlorobenzene.

1,682,562. TREATMENT OF LEAD SLUDGE. JOSEPH B. HILL, Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 17, 1926. Serial No. 95,229. 2 Claims. (Cl. 23—51.)



1. The method of treating lead sludge which comprises drying the sludge, subjecting it to dry heat under oxidizing conditions to cause conversion of the major portion of the lead content to compounds soluble in an aqueous solution of a caustic alkali, and dissolving the resultant lead products in an aqueous solution of the character aforesaid.

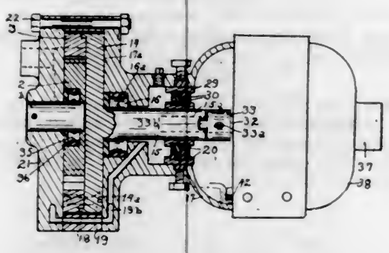
1,682,563. INTERNAL ROTOR. MYRON F. HILL, New York, N. Y. Original application filed Nov. 5, 1921, Serial No. 513,075. Divided and this application filed Jan. 14, 1928. Serial No. 246,894. 6 Claims. (Cl. 74—41.)



1. A rotary mechanical movement comprising two rotor members having internal and external teeth respectively, one within, eccentric to, and having one less tooth division than the other, each tooth having a radial height from the hollow of a tooth space to the top of a tooth substantially equal to twice said eccentricity and the faces and flanks of

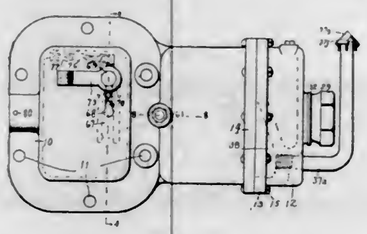
the teeth of each rotor having contours generated by the form of the other at steady angular velocity, to provide continuous sliding contacts between the teeth in the open mesh region and the full mesh region.

1,682,564. COMPRESSOR. MYRON F. HILL, New York, N. Y. Filed Feb. 15, 1923. Serial No. 619,292. 15 Claims. (Cl. 230—141.)



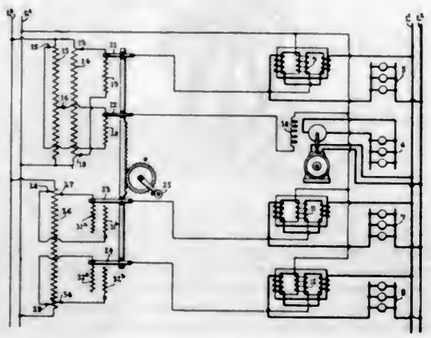
1. In a rotary mechanism dealing with fluid pressures and having intake and outlet passageways and driving connections, two rotor members having tooth divisions forming between them chambers which open and close by relative rotation to perform pressure functions in connection with said passageways, one rotor within and eccentric to the other and having one less tooth division, contours on said tooth divisions providing said pressure functions and relative angular motion, said contours of each rotor conforming to curves of envelopment outlined by the successive positions of a tooth form of the other rotor during relative angular motions which motions are those of two circles tangent internally, each in turn carrying the appropriate tooth form, and the two circles having diameters proportional to the numbers of tooth divisions of the said rotors that are to conform thereto, the angular velocity of the outer circle bearing to that of the inner circle the inverse ratio of the numbers of tooth divisions of said rotors, said rotors having a continuous travelling pressure holding engagement between both ends of the passageways.

1,682,565. ROTARY COMPRESSOR. MYRON F. HILL, New York, N. Y. Filed Nov. 5, 1921. Serial No. 513,075. 9 Claims. (Cl. 230—141.)



1. In a rotary mechanism dealing with gas pressures having intake and outlet passageways, two rotor members having tooth divisions forming between them chambers which open and close by relative rotation to perform pressure functions between said passageways, one rotor within and eccentric to the other and having one less tooth division, contours on said tooth divisions providing said pressure functions and relative angular motion, said contours of each rotor conforming to curves of envelopment outlined by the successive positions of a tooth form of the other rotor during relative angular motions which motions are those of two circles tangent internally, each in turn carrying the appropriate tooth form, and the two circles having diameters proportional to the numbers of tooth divisions of said rotors that are to conform thereto, the angular velocity of the outer circle bearing to that of the inner circle the inverse ratio of the numbers of tooth divisions of said rotors, said rotor contours having continuous travelling engagements in the full mesh region between said passageways, and having a plurality of continuous travelling engagements between said contours on the open mesh side between said passageways, means for providing a liquid seal, end walls on opposite ends of said rotors fixed to each other directly engaging the ends of said rotors and enclosing said rotor chambers at said ends, to balance said rotors and end walls with relation to each other with a floating relation free of endwise pressure, and a driving connection to the outer rotor.

1,682,566. METHOD OF AND APPARATUS FOR CONTROL OF ELECTRICAL CONDITIONS OF CIRCUITS. RICHARD B. HUNTER and CLARENCE T. EVANS, Milwaukee, Wis., assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 17, 1924. Serial No. 686,935. 24 Claims. (Cl. 175—312.)

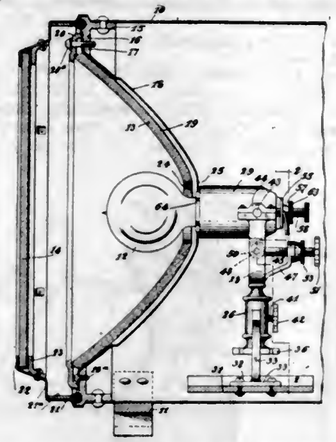


1. In apparatus for controlling an electrical condition of a circuit having a connection with a source of constant potential, the combination with an individual resistor for said circuit and means for subjecting the respective terminals of the former to selectable values of potential derived from said source, of associated means for subjecting said circuit to the effect of such potential values modified by a selectable ohmic value of the resistance of said resistor.

7. Combined control apparatus, comprising means for providing a circuit across supply lines of opposite polarity, means for impressing upon said circuit a selectable value of the line potential, means for preselecting a different value of such potential to be impressed upon said circuit and means for varying the circuit impressed potential from the former to the latter value in increments each substantially proportional to the difference of said values.

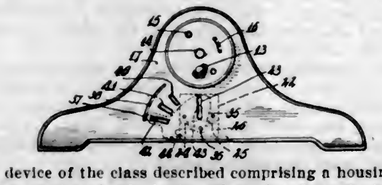
1,682,567. LIGHT-PROJECTING DEVICE. ALONZO D. HOBBIE, Newark, N. J., assignor to Dressel Railway Lamp & Signal Corporation, Arlington, N. J., a Corporation of New Jersey. Filed May 1, 1924. Serial No. 710,256. 3 Claims. (Cl. 240—44.)

1. A head light, including a casing, a concave reflector of the beam projecting type supported in the casing and having an opening therein at its rear end in combination a vertical, swiveled standard secured against vibration within the casing and disposed behind the reflector, an adjustable socket member on the standard, a lamp bulb within the reflector connected to said socket member through said opening,



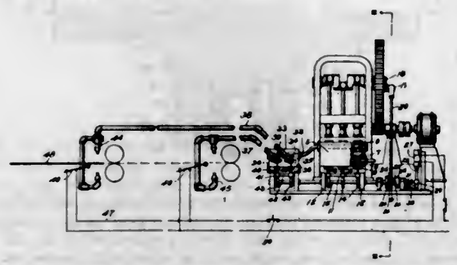
horizontal, symmetrically projecting trunnions on the socket member, and a yoke at the upper end of the standard in the arms of which the trunnions are cradled.

1,682,568. COMBINED CLOCK-SAVINGS-BANK DEVICE. RICHARD HOBS, Secaucus, N. J. Filed Mar. 10, 1927. Serial No. 174,199. 1 Claim. (Cl. 232—4.)



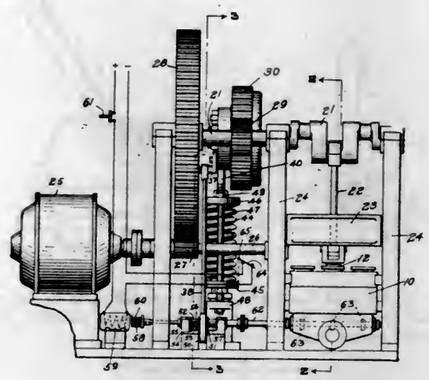
A device of the class described comprising a housing having an aperture in the bottom thereof, a door pivotally attached to the bottom of said housing adapted to close the aperture in the bottom thereof, locking mechanism mounted in said housing adapted to be actuated by insertion of a key through a key hole in the back of said housing, a lever pivotally attached to the back of said housing having an aperture therein adapted to register with the key hole of said back for permitting insertion of a key into said housing; and an extension on said lever adapted to engage the inner surface of said door and to press thereon when the slot in said lever is in registration with the key hole in said back for urging said door to open position after the same is released by operation of said locking mechanism.

1,682,569. HYDRAULIC SYSTEM. JOSEPH E. HOLVECK, Pittsburgh, Pa. Filed June 9, 1926. Serial No. 114,675. 20 Claims. (Cl. 103—40.)



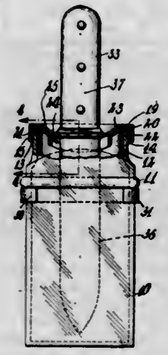
1. The combination in a hydraulic system of a pump, a distributor for directing the pump discharge to a selected delivery point and means operated by said pump for operating said distributor to vary the point of delivery.

1,682,570. PUMP. JOSEPH E. HOLVECK, Pittsburgh, Pa. Filed June 28, 1926. Serial No. 118,907. 16 Claims. (Cl. 103—12.)



1. A variable delivery pump having in combination parallel operating shafts rotatably mounted in fixed relation and means for varying the relative timing of said shafts.

1,682,571. SANITARY BUTTER-KNIFE CONTAINER. JEREMIAH HORAN, Flushing, N. Y. Filed Aug. 12, 1927. Serial No. 212,494. 2 Claims. (Cl. 65—12.)

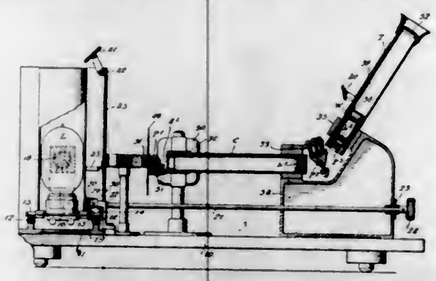


1. In a device of the character described, a casing adapted to be supported on a suitable bracket, an opening at the top of the said casing, a circular rim around the said opening, and a cap removably secured to the said rim, a concave central portion in the said cap, a transverse slot therein and a downward disposed marginal flange around the said slot adapted to engage the sides of a knife when inserted therein for holding the blade of the latter in spaced relation to the sides of the casing, and the whole adapted to receive the blade of a cutting utensil through the said slot, and to support the said utensil with its blade inserted within the aforesaid casing.

1,682,572. OPTICAL INSTRUMENT. CARL W. KEUFFEL, Weehawken, N. J., assignor to Keuffel and Esser Company, Hoboken, N. J., a Corporation of New Jersey. Filed Oct. 15, 1925. Serial No. 62,502. 16 Claims. (Cl. 88—14.)

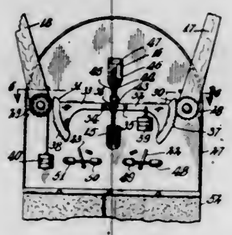
1. In an instrument of the character set forth, a pair of reflecting surfaces, arranged in spaced parallel relation-

ship, a source of light located between said surfaces, means to vary the distances between said source of light and said surfaces, and an optical prism arranged to col-



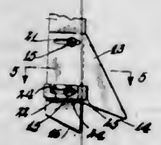
lect a portion of the light reflected by said surfaces and to direct said light in a pair of substantially parallel juxtaposed beams along a predetermined path.

1,682,573. AUTOMATIC GATE FOR RAILWAYS. MARY J. KOVACS, St. Clairsville, Ohio. Filed May 11, 1927. Serial No. 190,463. 2 Claims. (Cl. 39—7.)



1. In a device of the class described, the combination, with pivotally mounted gate elements, of gears secured to the said gate elements, coaxial with the pivot points, a means for normally holding the gates in raised position, levers pivotally mounted intermediate of their ends, segments formed on one of the ends of the levers, certain of these segments being provided with teeth along their upper arc portions, meshing with certain of the said gears for lowering the gates connected with the gears immediately upon motion of the levers, and the other segments being provided with teeth along their lower arc portions, meshable with the other gears after a certain amount of free motion for lowering the gates connected with these gears a short time after initial motion of the levers, and a means connected with the free ends of the said levers for moving the levers in unison.

1,682,574. CLUTCH-LOCKING DEVICE FOR TRACTORS. JOHN KOCSIS, New York, N. Y. Filed Apr. 21, 1927. Serial No. 185,416. 2 Claims. (Cl. 74—39.)



2. In a device of the class described, the combination with a lever for supporting a catch, of a catch formed with parallel elongated apertures, screws passing thru the apertures and threadedly engaged in the lever so as to hold the catch adjustably on the lever, and a weight having an elongated aperture, one of the said screws is passed thru the last mentioned elongated apertures to adjustably hold the weight against the catch, so that as the catch is reset, the lever may be rebalanced by adjusting the position of the weight.

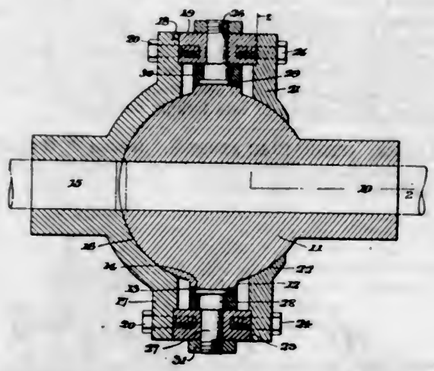
1,682,575. BEETLE TRAP. BENJAMIN LEON and MITCHELL FOW, Camden, N. J. Filed Feb. 6, 1928. Serial No. 252,079. 5 Claims. (Cl. 43—107.)



1. A device of the character stated comprising a funnel-like member having an opening in its side wall adjacent the upper rim thereof, an open-ended bait receptacle extended across said member with its open end in register with the opening in said member, a baffle plate projected from said receptacle, and a stopper for closing the open end of said member.

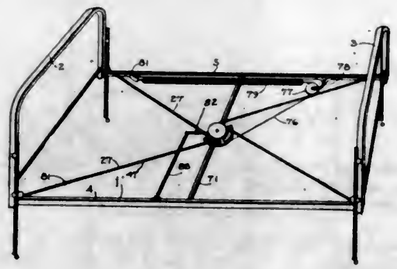
5. In combination a cup-like bait container having an annular, flanged, jar engaging opening in its bottom, a funnel-like member arranged within said container with its sloping side walls seated upon said flange, a bait receptacle extended across said member, and a baffle plate projected from said bait receptacle.

1,682,576. FLEXIBLE SHAFT COUPLING. WILLIAM E. LEWIS, West Mystic, Conn. Filed Mar. 15, 1927. Serial No. 175,579. 1 Claim. (Cl. 64—91.)



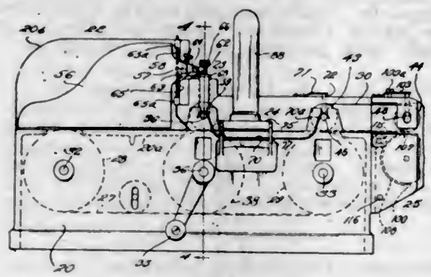
A ball-and-socket universal joint, including a ball provided with a circumferential rib transversely of the joint, said rib being provided with recesses which with the rib forms external drive teeth, a ring of greater diameter than the rib and of greater width than the rib surrounding the ball adjacent the rib, two detachable socket forming members attached one on each side of the ring and forming therewith the socket for encasing the ball, and a plurality of pins carried by the ring and projecting to fit within the respective recesses of the rib, whereby radial movement is transmitted from one member of the joint to the other.

1,682,577. COMPANION BED. HENRY B. LITTLEFIELD, Cleveland Heights, Ohio. Filed Apr. 16, 1923. Serial No. 632,551. 12 Claims. (Cl. 5—11.)



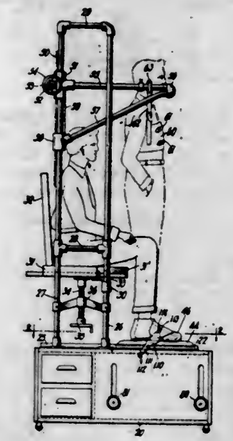
1. A construction of the character described having in combination a companion bed unit having corner posts, end members and side rails, means disposed at the bed corners and in the plane of the side rails for vertically adjusting said unit, and unitary counter-balancing means in the plane of said side rails.

1,682,578. ENVELOPE SEALING AND PRINTING DEVICE. JOSEPH A. NIPCHILD, Cleveland, Ohio. Filed Feb. 10, 1923. Serial No. 618,208. 7 Claims. (Cl. 271—35.)



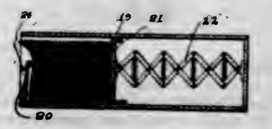
1. In a device of the character described, the combination of an envelope receptacle, an endless friction belt associated therewith and arranged to feed an envelope from the bottom of a stack of envelopes contained in the receptacle, said friction belt arranged whereby the top stretch of the belt may contact with the bottom envelope of the receptacle, a feed roll disposed above the belt and in contact therewith and a baffle disposed between the envelope stack and said feed roll, and actuated by vertical movement of the said roll.

1,682,579. ORTHOPEDIC LASTING-FITTING APPARATUS. CASTAGNOLA OLIVER, Brooklyn, N. Y. Filed Nov. 9, 1925. Serial No. 67,843. 8 Claims. (Cl. 33—3.)



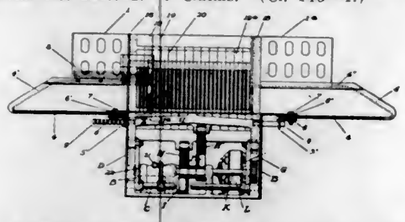
1. A foot molding apparatus comprising a platform, pairs of upright posts thereon, brackets slidable on the upper portion of said posts, said brackets having forwardly extending arms, means for positively raising or lowering said brackets, and a harness suspended from said arms, said harness being engageable with the body of a person.

1,682,580. METHOD AND APPARATUS FOR DISPENSING NAPKINS. EDWIN D. PRATT, New York, N. Y. Filed July 18, 1923. Serial No. 652,400. 2 Claims. (Cl. 312—61.)



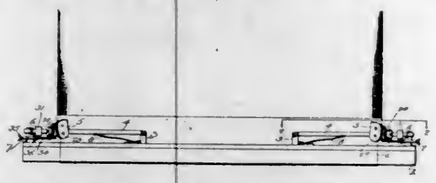
1. A device for dispensing paper napkins consisting of a casing, adapted to enclose a stack of folded napkins, means within the casing for applying a feeding pressure to the rear end of the stack, and end-plate shorter than the height of the casing mounted on the casing at the dispensing end thereof and normally inclined inwardly to engage and apply a counter-pressure on said stack between the upper and lower edges thereof to cause a folded edge of one of the napkins to lip-over said end-plate, and means cooperating with said end-plate to facilitate withdrawal of the napkin having such lipped-over edge.

1,682,581. BREAD-FASTENING MACHINE. OTTO F. ROHWEDDER, Davenport, Iowa. Filed July 10, 1926. Serial No. 121,712. 7 Claims. (Cl. 146—1.)



1. A bread fastening machine comprising a supporting platform, means for retaining the cut slices of a loaf of bread in their uncut position thereon, and means for inserting into the loaf from opposite ends thereof a plurality of retaining rods which overlap at the middle of the loaf.

1,682,582. LOOM TEMPLE. CHARLES F. SLOAN, Philadelphia, Pa. Filed Aug. 10, 1927. Serial No. 212,011. 2 Claims. (Cl. 139—301.)



1. In a loom temple, the combination with a support adapted to be mounted transversely of the loom, of a bracket member mounted on and adjustable longitudinally of the support, a pair of pivot members projecting upwardly from said bracket, wheels rotatable on said pivots, a chain operative on said wheels and having links provided with projecting fabric-retaining elements, and a cover plate for said wheels secured in position overlying the said wheels by means of screws threaded into the tops of said pivot members.

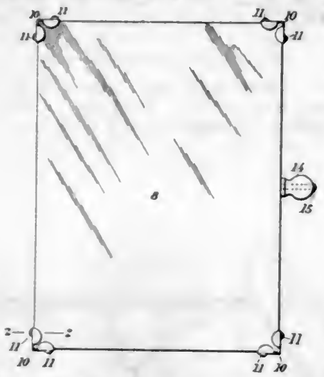
1,682,583. SAMPLE TAB. ALEXANDER SPITZER, Brooklyn, N. Y. Filed Mar. 26, 1926. Serial No. 97,815. 4 Claims. (Cl. 206—82.)



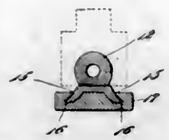
1. The combination, in a sample tab, of an integral body member, formed of a back portion, from which an integral side frame depends, said side frame being bent at the bottom to form a sub-back portion, which has a tongue struckout therefrom, and bent downwards to engage the bottom edge of inserted sample material, whose top edge is engaged by the upper edge of the sub-back portion, while a tongue struck-out from the back portion engages in a slot in the sub-back portion, and another tongue struck out from the back portion allows a grip to engage and disengage the latter mentioned tongue.

1,682,584. MEANS FOR MOUNTING MIRRORS AND THE LIKE. EDWIN DE HAVEN STEEL, Philadelphia, Pa., assignor to Steel & Wike Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 6, 1927. Serial No. 189,336. 2 Claims. (Cl. 45—18.)

1. Means for mounting mirrors, including a pan having a rim formed on its edges, a cushion in said pan, a mirror superposed on said cushion and slightly overlapping the same, the outside edges of the mirror forming a substantial continuation of the outside edges of the rim, and brackets engaging the edges of said mirror and fixed to said pan.

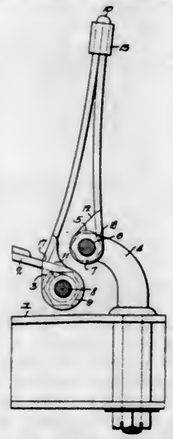


1,682,585. PIN-STEM JOINT. ANTHONY E. WALLER, Providence, R. I. Filed Jan. 18, 1928. Serial No. 247,544. 2 Claims. (Cl. 24—160.)



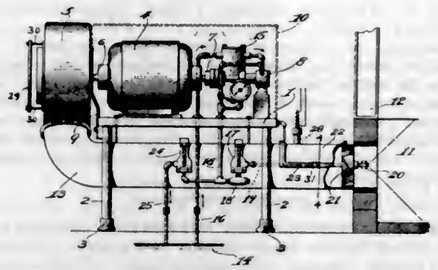
1. An article of manufacture comprising a pin stem joint member having a base formed of a disc of celluloid, the joint member being formed of sheet metal folded to provide a bridge portion with two spaced upstanding ears to pivotally support a pin stem, the opposite edges of the bridge between the ears having downwardly and outwardly turned pointed spurs imbedded in said celluloid disc permanently securing the disc to the joint.

1,682,586. SPRING SHACKLE. JOHN WARREN WATSON, Wayne, Pa. Original application filed July 3, 1919, Serial No. 308,556. Divided and this application filed Jan. 23, 1925. Serial No. 4,285. 16 Claims. (Cl. 267—54.)



1. For combination with a vehicle supporting spring and a relatively movable vehicle part, a member adapted for rigid attachment to the vehicle spring, a member adapted for rigid attachment to the other vehicle part, and a spring so supported by said members as to permit relative motion between said vehicle parts without necessitating movement between said members and the vehicle parts to which they are respectively rigidly attached, and means for automatically holding said members rigidly to said vehicle parts.

1,682,587. OIL BURNER. JOSEPH MALEY WENZ, Philadelphia, Pa., assignor to Home Comfort Heater Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 4, 1926. Serial No. 133,565. 2 Claims. (Cl. 158—28.)



1. In a device of the character stated, a base, a unit superimposed thereupon and comprising a blower, oil pump and a motor, the latter being arranged between said blower and oil pump, an air conduit leading from said blower below said base, an oil conduit leading from said oil pump, an atomizer into which oil is discharged, a relief valve in the line between said oil pump and atomizer and located at a point below said atomizer, and a second relief valve in communication with the oil supply pipe having an overflow leading to the source of oil supply both of said relief valves being located below the plane of said atomizer.

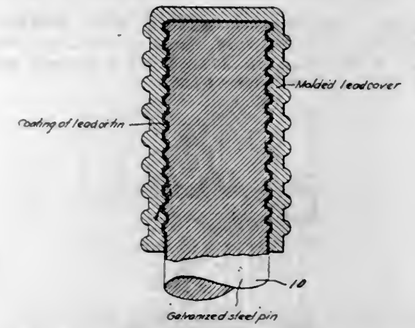
1,682,588. PRODUCTION OF DRY GASES. GUSTAV WIETZEL and FRITZ STOEWENER, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed June 29, 1925, Serial No. 40,440, and in Germany June 30, 1924. 2 Claims. (Cl. 183—4.)

2. The process of liquefying gases which consists in drying and compressing the gases, cooling them and adsorbing any residual water vapor by means of silica gel of high adsorbing power, and liquefying the gases and regenerating the adsorbent at intervals by means of gases which have undergone the liquefaction operation and are at a pressure not substantially exceeding atmospheric pressure.

1,682,589. SEMILIQUID BITUMINOUS COMPOSITION. JOSEPH HAY AMIES, Philadelphia, Pa. Filed Feb. 20, 1923. Serial No. 620,305. 1 Claim. (Cl. 134—51.)

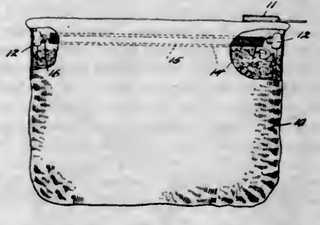
The herein described method of making a semi-liquid bituminous composition which consists in placing approximately sixty-five pounds of granulated bituminous material in a heating still, then placing therewith about thirty-five pounds of crude petroleum oil, or the like, and mixing the two together through the medium of heat, until thoroughly united, then adding thereto and therewith, substantially fifteen pounds of granulated oxide of calcium in an already slaking condition, then adding ten pounds of crude naphtha therewith after the employment of the slaking of the lime, and then causing the same to become thoroughly intergral with the body of the composition substantially as specified.

1,682,590. INSULATOR PIN AND PROCESS OF MANUFACTURING THE SAME. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Original application filed Mar. 1, 1923, Serial No. 621,966. Divided and this application filed Oct. 22, 1925. Serial No. 64,261. 19 Claims. (Cl 22—203.)



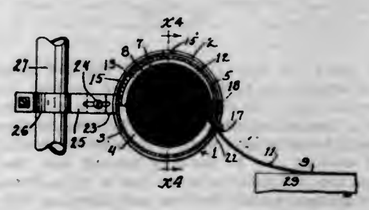
1. The process of manufacturing insulator pins wherein the portion of said pin to which the insulator is to be secured is subjected to a flux and coated with a relatively thin coat of metal, after which a thimble of relatively soft metal is formed upon said coated portion.

1,682,591. HUMIDIFIER FOR TOBACCO CONTAINERS. ISAAC N. BARRITT, Fairhaven, Mass. Filed Mar. 27, 1926. Serial No. 98,035. 4 Claims. (Cl. 206—41.6.)



1. The combination with a pouch having flexible walls and a mouth provided with closure means, of a humidifying device therefor comprising a coiled spring having its ends secured to the walls of the pouch within the same and adjacent the mouth thereof, said spring being flexible and the walls thereof having spaces for the passage of water vapor, and a quantity of absorbent material within the said member.

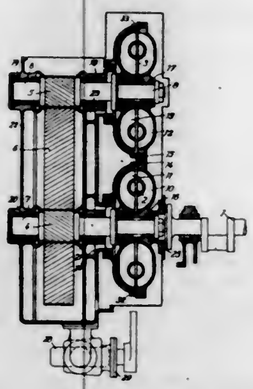
1,682,592. TOILET-SEAT ACCESSORY. JUSTIN NEALL BARKER and MARJORIE NUTTING BARKER, Santa Monica, Calif. Filed Feb. 28, 1927. Serial No. 171,550. 9 Claims. (Cl. 242—55.5.)



4. A toilet seat accessory comprising a semi-housing including end caps and a hollow semi-cylindrical body provided at one side with a notch; a hollow semi-cylindrical

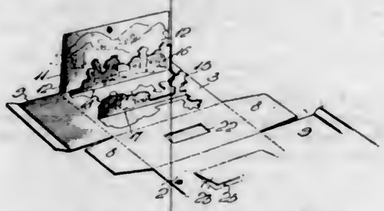
closure arranged between said caps and adapted to conform to said body when turned to open position, and adapted when closed, to form in connection with the notched edge of said housing, a slot through which a strip of paper may be drawn from a roll inside the housing when the closure is closed; said closure having a projecting lip that forms a handle and a strip cutter.

1,682,593. REVERSING DEVICE FOR WORKING SHAFTS. GUSTAV BAUER, Hamburg, Germany. Filed Mar. 4, 1927, Serial No. 172,806, and in Germany Mar. 23, 1926. 1 Claim. (Cl. 74—59.)



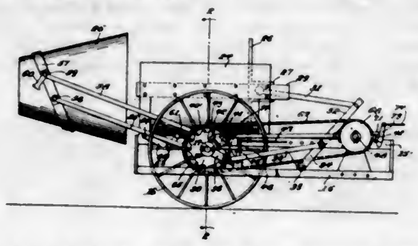
A device for reversing working shafts, such as propeller shafts of ships, driving shafts of motor vehicles, rolling mills, hoisting machines and the like to be driven by high-speed engines by means of non reversible liquid transmission gears as well as by cog-wheel transmission gears, comprising in combination, two liquid transmission gears, two shafts, one being coupled with one of said gears, cogged rims provided on the driving members of said gears and meshing with each other, one of said shafts being formed by an extension of the driving shafts of the engine or motor, the other by a separate counter-shaft, pinions connected with the driven parts of said gears, and a large cog-wheel meshing with said pinions substantially as set forth.

1,682,594. CARTON. FREDERICK J. BENJAMIN, Wilmette, Ill. Filed Jan. 2, 1925. Serial No. 127. 3 Claims. (Cl. 46—37.)



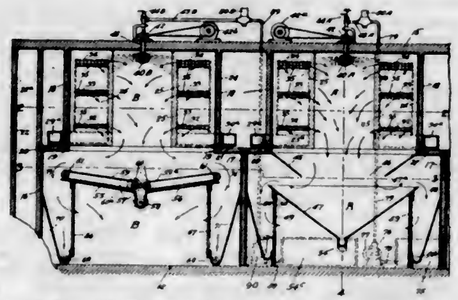
1. A blank for folding boxes and the like comprising sections adapted to form the walls of the box, pictorial delineations upon the side of the blank which forms the outside of the box, indicia associated with said delineations to indicate severing lines whereby delineation bearing parts of said sections may be partially severed from the blank and bent into the interior of the box to form elements of a relief picture within the box, and severing lines upon the sections of the blank forming the front wall and top of the box to delimit light and visual access orifices in the box.

1,682,595. SHOCKING MACHINE. EDWIN W. BROHOLM, Twodot, Mont. Filed Aug. 28, 1925. Serial No. 53,184. 11 Claims. (Cl. 56—419.)



1. In a shocking machine, a wheel supported hopper adapted to receive bundled grain, a shock former normally positioned to receive the bundles from the hopper, a bundle pusher operating within the hopper, means to operate the bundle pusher to transfer the bundles from the hopper to the shock former and means to move the shock former pivotally to deposit the shock in upright position subsequently swing the shock former upward above the shock and thereafter return the shock former to bundle receiving position.

1,682,596. DEHYDRATING APPARATUS. WILLIAM D. CALLAN, Duluth, Minn., assignor to Economic Powdered Products Company, Minneapolis, Minn., a Corporation of Delaware. Filed May 5, 1920, Serial No. 379,026. Renewed July 5, 1927. 5 Claims. (Cl. 159—4.)

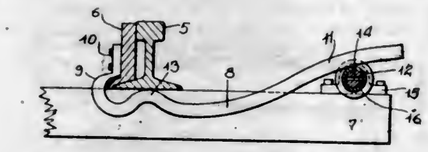


1. A dehydrating cell for fluids comprising an upper and lower compartment, means for directing currents of heated air into said upper compartment, a fluid sprayer in said upper compartment, said cell having a horizontally extending restricted air passage from the lower portion of said upper compartment to said lower compartment, collecting means below said passage and air ducts passing downwardly around said collecting means and connected with said restricted passage.

2. A dehydrating cell for milk or other fluids comprising an upper and a lower compartment, means for directing currents of heated air into said upper compartment, a fluid sprayer in said upper compartment, said cell having an air passage from the upper to the lower compartment, between the adjacent ends of the two compartments, collecting means below said air passage, air ducts around said collecting means, screens below said collecting means through which the air passes from said ducts, and means for collecting the material separated from the air by said screens.

4. In an apparatus for dehydrating fluids, a powdering cell, means for spraying material in the upper portion thereof, means in the upper portion of the cell for delivering currents of heated air into the spray of the material to be powdered, a table mounted in the lower portion of said cell and inwardly and downwardly inclined, a conveying means communicating with the inner portion of said table, gathering belts operating over said table for delivering the powdered material to said conveyor, the currents of air from the upper portion of said cell flowing downwardly and over the belts, and means positioned below the plane of the belts for screening said currents of air.

1,682,597. SWITCH-POINT DEPRESSOR AND HOLD-DOWN DEVICE. PHILIP CAMELI, Wilmington, Del. Filed Mar. 19, 1927. Serial No. 176,688. 12 Claims. (Cl. 246—435.)



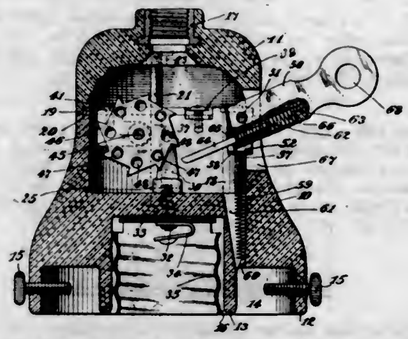
1. The combination with a horizontally movable railway switch point and an adjacent stock rail, of means to automatically positively depress the free end portion of said switch point when the latter is moved to operative position toward said stock rail, said point depressing means embodying a bar extending transversely beneath the stock rail and fixed at its inner end to the switch point.

1,682,598. APPARATUS FOR TESTING EGGS. DONALD JOHNSON COOK, Gunthorpe, near Melton Constable, England. Filed Oct. 25, 1926, Serial No. 143,988, and in Great Britain Oct. 28, 1925. 2 Claims. (Cl. 99—6.)



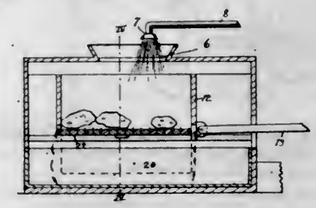
1. Apparatus for testing eggs comprising a glove for fitting on the hand on which are mounted electric lamp bulbs between the fingers set towards the palm, said lamps being fed by means of flexible connecting wires passing up the back of the glove.

1,682,599. SWITCH SOCKET. GEORGE M. CONDIT, Waterville, Conn., assignor of one-half to W. W. Bowers, Waterbury, Conn. Filed May 18, 1926. Serial No. 109,818. 5 Claims. (Cl. 173—354.)



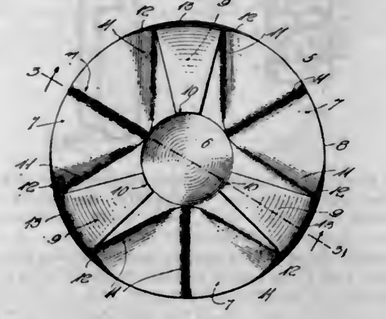
1. In a switch socket, a body of insulating material, spaced spring contacts therein, a revoluble member mounted between the said spaced spring contacts and adapted to make and break an electrical circuit between the same, a lever mounted in the body member, and a plunger yieldingly mounted in the said lever for operating the said revoluble member.

1,682,600. PEELING MACHINE. FRANK CUNICO, San Francisco, Calif., assignor of one-half to Italo Politi, San Francisco, Calif. Filed May 9, 1927. Serial No. 190,055. 3 Claims. (Cl. 146—49.)



1. In a peeling apparatus of the character described, a shaking element, a peeling element positioned in the bottom of said shaking element, said peeling element including a plurality of vertically disposed knives spaced from each other.

1,682,601. INDOOR-GOLF HOLE. JOHN A. CUNNINGHAM, Bethlehem, Pa., assignor of one-half to Mary Cunningham, Philadelphia, Pa. Filed June 18, 1928. Serial No. 286,184. 2 Claims. (Cl. 273—36.)

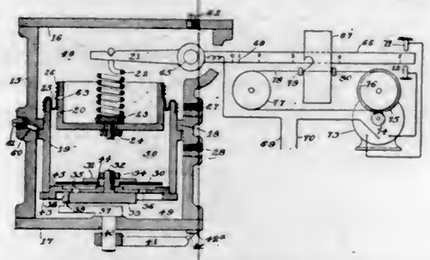


1. An indoor golf hole comprising a disk having a central pocket, a plurality of ball runways inclining to said pocket from the peripheral edge of the disk, and a plurality of radial ridges between said runways extending from said peripheral edge of the disk to said pocket, the inner ends of said ridges being diametrically opposed to the radial centers of said runways and constituting abrupt barriers to prevent rolling of the ball from the side of the pocket opposite that at which it enters, said runways being of considerably greater width than said ridges.

1,682,602. FLOW METER. CLARENCE A. DAWLEY, Plainfield, N. J. Filed Apr. 5, 1924. Serial No. 704,465. 8 Claims. (Cl. 73—167.)

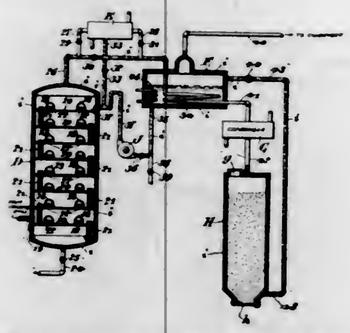
1. A differential gauge comprising a pressure body provided with an opening in one wall thereof, a piston in said body subject to pressures on its opposite faces, a torsion member extending loosely through said opening and connected, within said pressure body, to said piston, support-

ing means for said member, a torsionally flexible member surrounding a portion of said torsion member and connected at one end to said member and at its other end to the pres-



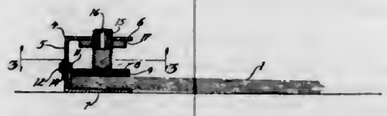
sure body adjacent said opening, means for applying a counterforce to the external portion of said torsion member, and means to measure the counterforce applied.

1,682,603. LIQUID PHASE PURIFICATION OF DISTILLATES. THOMAS G. DELBRIDGE and JOSEPH BENNETT HILL, Philadelphia, Pa., assignors to The Atlantic Refining Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 28, 1926. Serial No. 118,953. 5 Claims. (Cl. 196—147.)



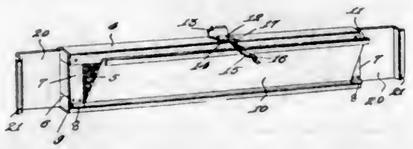
1. In the art of refining cracked petroleum distillates, the method which comprises fractionating the vapors of the distillate by contact with reflux liquid, condensing the vapors, bringing the condensate in liquid phase at a temperature substantially above its normal boiling point into contact with fuller's earth to effect polymerization of gum-forming and color-imparting bodies, maintaining thereon while in contact with the fuller's earth a super-atmospheric pressure of such magnitude as to maintain the oil in liquid phase, transporting polymers from the fuller's earth by the oil, thereafter distilling the treated oil to effect separation of lower boiling point vapors from higher boiling point oil containing the polymers in solution, and utilizing said higher boiling oil as reflux liquid in said fractionation.

1,682,604. CLAMP. HIRAM G. DISBROW, Brooklyn, N. Y. Filed Sept. 24, 1927. Serial No. 221,736. 2 Claims. (Cl. 24—263.)



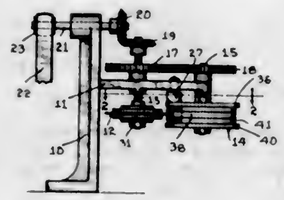
1. A clamp of the character described, comprising a flat upper plate and a flat lower plate, means for permanently connecting said plates along one edge, a clamping plate arranged intermediate said first mentioned plates, a guiding bar for guiding said clamping plate on the connecting means as it moves between the first two mentioned plates, means at the ends of said clamping plate for securing the guiding bar to the clamping plate, and a screw member for moving said clamping plate in one direction.

1,682,605. VENTILATOR. WILLIAM DICKS, Buffalo, N. Y. Filed July 20, 1927. Serial No. 207,232. 1 Claim. (Cl. 98—99.)



A window ventilator comprising a substantially rectangular frame whose upper and lower members are of metal and have their edges flanged, blocks arranged between the ends of said members and secured thereto, a metal plate fixed on the outer face of each of the blocks and having its lower edge rounded to form the same with a barrel, a shutter comprising a plate having its lower edges provided with projecting pintles which are received in and frictionally engage with the barrels, said shutter having its upper edge rounded to form the same with a bead, an angle plate fixed on the top of the frame and designed to have its upstanding flange contact with the inner face of the bottom rail of the lower sash, a strap hingedly secured to the angle plate having an offset portion and having corrugations designed for engagement with the bead of the shutter for holding the shutter against the frame or at angle positions with respect to said frame, plates slidable through the ends of the frame and guided between the flanges and the top and bottom of the frame and the blocks at the ends of the frame, said plates having offset ends to be received in the grooves for the sash in the window casing, and a reticulated facing for the frame.

1,682,606. PINKING MACHINE. ABRAHAM DVILNSKY, Brockton, Mass. Filed Jan. 11, 1927. Serial No. 160,443. 6 Claims. (Cl. 164—64.)



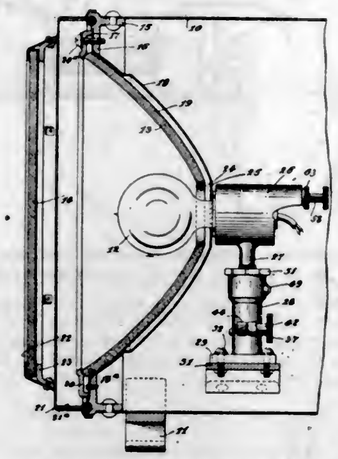
3. In a pinking machine, a pinking cutter, and a companion roller having a ring in juxta-position with the periphery of said cutter for co-acting therewith, said ring being of softer material than that of the cutter.

1,682,607. EXPANDING BRACELET AND LIKE ARTICLES OF JEWELRY. ANDREW DOWNES, London, England, assignor to Cartier Limited, London, England, a British Company. Filed Aug. 23, 1926, Serial No. 131,066, and in Great Britain Sept. 8, 1925. 3 Claims. (Cl. 59—79.)



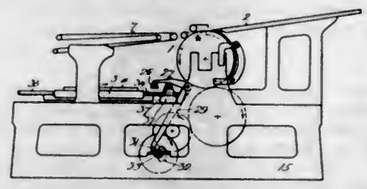
1. An expanding article of jewelry consisting of a plurality of elements each comprising a front plate, a pair of parallel tubular members, and a plurality of studs each having one end connected to one face of the front plate and its other end connected to one of said tubular members, a pair of continuous elastic members each passing through the aligned tubular members of said front plates, and links each engaging and slidable relatively to the adjacent pairs of studs of adjacent front plates between said front plates and said tubular members.

1,682,608. LIGHT-PROJECTING DEVICE. FREDERICK W. DRESSEL, New York, N. Y., assignor to Dressel Railway Lamp & Signal Corporation, Arlington, N. J., a Corporation of New Jersey. Filed May 1, 1924. Serial No. 710,217. 2 Claims. (Cl. 240—44.)



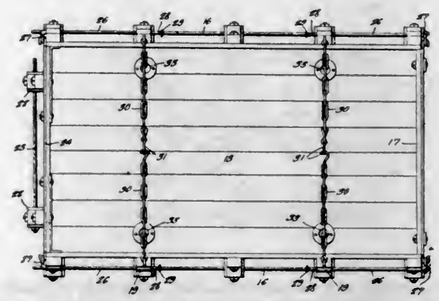
1. A head light, including a casing having a reflector of the beam projecting type with a hole in the rear end thereof, secured to said casing by its rim and a rigid base support secured to and extending vertically upward from the bottom portion of said casing and free from contact or connection with said reflector except by way of the casing and rim securing means, in combination with a lamp bulb and means for supporting it from said base and through said hole independently of said reflector, with its luminous element located in focal regions within the reflector and its socket support outside of said reflector; said support being formed with means affording universal adjustment of said luminous element within said focal regions and means for rigidly locking the parts in the adjusted positions; said support means including a vertical standard and guide column therefor and an intermediate sleeve swiveled in the column and screw threaded about the standard for rotary and screw support thereof.

1,682,609. CUTTING AND CREASING PRESS. FRED S. ENGLISH, New London, Conn. Filed Sept. 2, 1926. Serial No. 133,211. 11 Claims. (Cl. 93—58.)



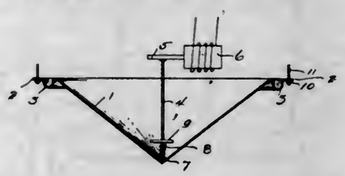
1. The combination of a press for cutting and creasing stock including a cutting die, and impression cylinder, and means adjacent the path of said die for brushing the surface thereof.

1,682,610. VEHICLE TRUCK BED. JAMES R. FELL, Haleyville, Ala., assignor to William F. Dillard, Haleyville, Ala. Filed Oct. 5, 1927. Serial No. 224,258. 3 Claims. (Cl. 296—14.)



1. A truck bed construction comprising a supporting frame, plate members carried upon the sides of the supporting frame and extended appreciable distances beyond the extremities thereof, bolster stakes arranged between the plates, rod members extended through the plates and bolsters to swingably mount the latter thereon, siding carried by the stakes, plate members carried upon the ends of the bolsters and having hooks upon the extremities thereof, plate members carried upon the outer sides of the stakes being provided with sleeve portions, locking rods mounted within the sleeve portions having hooks adapted for engagement with the aforementioned hooks, and crank portions carried upon the opposed ends of the locking rods.

1,682,611. RING CONE-SHAPED DIAPHRAGM DEVICE. EARL H. FOLEY and PAUL J. GUNN, Tacoma, Wash., assignors to International Acoustigraph Company, Tacoma, Wash. Filed Oct. 8, 1925. Serial No. 61,250. 2 Claims. (Cl. 181—32.)



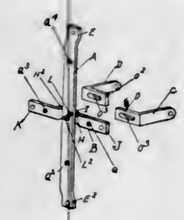
2. In a diaphragm device, a conical primary vibrating area having a period of vibration within the scale of audio-frequency, a laterally extending flange about the periphery of said area for attaching the diaphragm in a frame, and a U-shaped rib integral with the flange and the primary vibrating area, and between the two and opening toward the base of the cone, the material of which is under tension at all times to have a period of vibration above the scale of audio-frequency vibrations.

1,682,612. ANIMAL TRAP. WALTER A. GIBBS, Holly Oak, Del. Filed Apr. 5, 1924. Serial No. 704,429. 7 Claims. (Cl. 43—88.)



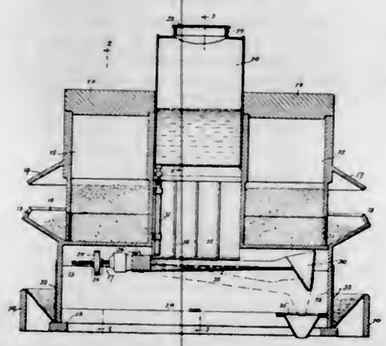
1. An animal trap comprising a pair of U-shaped cooperating pivoted jaws, springs for bringing said jaws together, and a container arranged between the jaws adjacent the pivots and adapted to be engaged on opposite sides by the side arms of the U-shaped jaws when the latter are brought together.

1,682,613. SUPPORT FOR FIRE-ALARM AND POLICE SIGNAL BOXES. WILLIAM H. GREENLAW, Beverly, Mass. Filed Mar. 31, 1927. Serial No. 179,959. 2 Claims. (Cl. 248—20.)



1. A device of the kind described, comprising an upright member, having its terminals off-set so as to bring its extreme ends out of, but parallel with, the line of its intermediate portion, a cross member having its center off-set so as to bring said center out of but parallel with the line of its adjoining ends, means for joining the two at substantially 90°, and means for securing thereon a signal box or other equipment, said upright and cross members adaptable at their ends to be secured against a support.

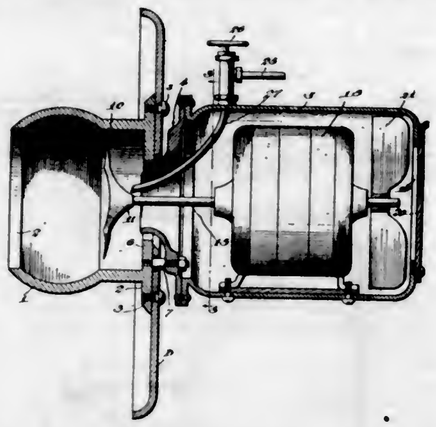
1,682,614. POULTRY FEEDING AND WATERING DEVICE. HENRY V. GUERTIN, Patchogue, N. Y. Filed Mar. 29, 1927. Serial No. 179,269. 3 Claims. (Cl. 119—52.)



1. A poultry feeding device, including a base and a superstructure, removable trough elements carried by the base, longitudinally spaced feed bins on the superstructure having troughs communicating with and gravitationally fed by the bins, and a canopy carried by the superstructure and extending outwardly from the bins over the bin troughs, for conveying off and preventing drain water from entering the bin troughs, the said bin troughs having downwardly and outwardly inclined outer walls for conveying off drain water from the removable base trough elements.

1,682,615. OIL BURNER. HAROLD H. HOLMES and ARTHUR F. ESPERSEN, La Crosse, Wis. Filed Sept. 29, 1926. Serial No. 138,477. 2 Claims. (Cl. 158—77.)

1. An oil burner comprising a combustion chamber, a housing having a neck discharging into the combustion chamber, an electric motor in the housing having shafts projecting from its opposite ends, a rotating spreader mounted on the shaft of the motor that extends into the combustion chamber, a fan located on the other shaft, the housing having an opening adjacent said fan, said rotating spreader having its forward face exposed to the fire of the combustion chamber and having a curving rear



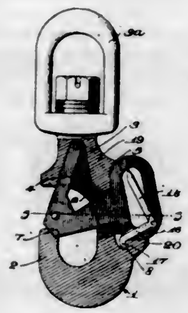
face of unbroken continuous structure, and means for supplying oil to the rear face of the spreader at the hub thereof.

1,682,616. TRIANGLE PAD. FITCH C. IRVING, Brooklyn, N. Y. Filed May 25, 1927. Serial No. 194,103. 2 Claims. (Cl. 273—22.)



1. A triangle pad comprising a body of comparatively strong flexible material, a cover for said body, a series of lines of stitching extending across said cover and body for connecting the parts together and presenting bending lines, and means for connecting said body at one end to one of the sides of the triangle said end being parallel to said bending lines.

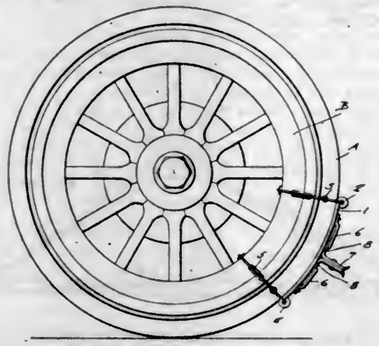
1,682,617. SAFETY HOOK. WILLIAM G. JENSEN and KRESTEN R. JENSEN, Nowata, Okla. Filed Oct. 17, 1927. Serial No. 226,796. 4 Claims. (Cl. 24—241.)



1. A safety hook having a body member and a shank with a recess therein opening through the inner face of the shank and also having an opening in the outer edge of

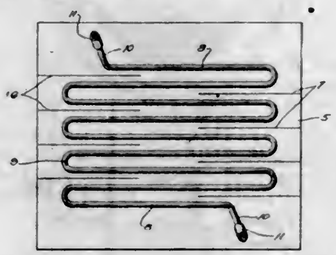
the body, an L-shaped tongue pivotally connected at one end in said recess and adapted to swing by gravity across the hook and close the space between the bill and the body thereof, and cooperating means carried by the tongue and the hook body for locking the tongue in closed position.

1,682,618. WHEEL ATTACHMENT. LOUIS S. KLINE, Youngstown, Ohio. Filed Aug. 12, 1925, Serial No. 49,806. Renewed Mar. 30, 1928. 1 Claim. (Cl. 152—2.)



A device of the character described including a shoe member adapted to conform to the exterior of a pneumatic tire and spaced guides on the outer surface of the shoe, a ground engaging element including a pair of right-angular plates having one side thereof arranged in contacting relation and secured together, the other sides being extended in opposite direction and formed to conform to the curvature of a shoe and adapted to be disposed within said guides, the outer edge of the parallel portions of said plates being notched to form teeth, said teeth curving outwardly with the teeth on one plate curving in a direction opposite that of the teeth on the other plate.

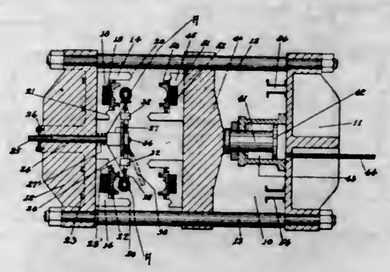
1,682,619. FLEXIBLE STEAM SPOTTER. ERBEN E. LA TURNER, Jerome, Idaho. Filed Aug. 17, 1927. Serial No. 213,603. 3 Claims. (Cl. 18—18.)



1. A vulcanizing device including a plate having slits extending from the side edges thereof to permit the plate to be bent over a tire casing, a pipe formed into loops, secured to the plate, and said loops adapted to be supplied with steam to heat the plate to vulcanize rubber contacting with the plate.

1,682,620. APPARATUS FOR ELECTRICAL VULCANIZING. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 10, 1922. Serial No. 528,141. 26 Claims. (Cl. 18—17.)

1. An apparatus for vulcanizing rubber tires comprising a fixed, annular, mold section, a movable, annular, mold section, means for supporting the tire to be vulcanized between said sections, means for moving the movable section towards the fixed section to place the tire under pressure, a primary coil, and a transformer core including a fixed core section and a movable core section moving with the movable mold section, said transformer core sections being so arranged as to engage each other to constitute a closed



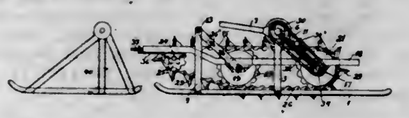
magnetic path when the mold sections are brought together upon the tire, whereby said mold sections become the secondary of the transformer and vulcanizing heat is generated therein.

1,682,621. FORCEPS. FRED LENESCHMIDT, Tripp, S. Dak. Filed Mar. 25, 1927. Serial No. 178,361. 8 Claims. (Cl. 128—328.)



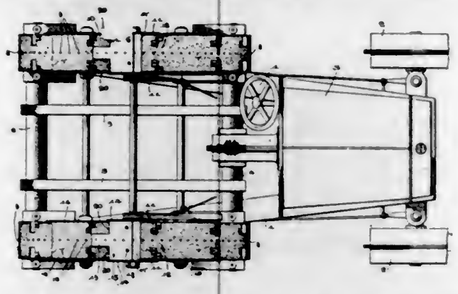
1. A veterinary instrument comprising a shank, a head at one end thereof, notched gripping fingers pivotally carried by the head, a rod movable longitudinally of the shank and having one end within the head, a disk secured to the referred to end of the rod for engagement within the notches of the fingers to move the latter pivotally when the rod is moved longitudinally, spring means to move the rod in a direction to open the fingers, a handle at the other end of the shank, an arm pivotally mounted within the handle and having an operative connection with the end of the rod, a trigger pivotally mounted within the handle, and engaging the arm, whereby the latter may be actuated to operate the rod and move the fingers to a closed position and means engaging the trigger to prevent opening movement of the fingers.

1,682,622. MOTOR SLEIGH. JOHANNES LÖFSTRÖM and OLOF LÖFSTRÖM, Ostersund, Sweden, assignors of one-half to Anders Eriksson, Boda, Lit, Sweden. Filed Aug. 20, 1924. Serial No. 738,221, and in Sweden May 19, 1924. 2 Claims. (Cl. 180—5.)



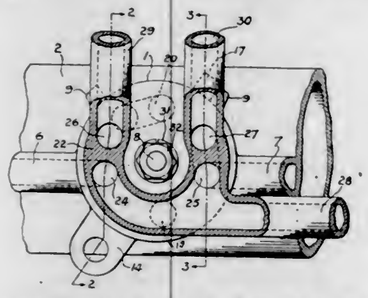
1. Driving aggregate for motor sleighs comprising in combination a sled, a frame, driving and guiding wheels rotatably journaled in the front and rear ends respectively of the frame, an endless traction element running on said wheels, front and rear supports provided on the sled, parallel links of equal length and pivotally connected at one end to the said frame and at the other end to the said supports at equal veritcal distances from the runners, and means for pivotally connecting the sled with a horizontal shaft of an automobile, said links permitting the frame together with the traction element, when acted upon by unevennesses of the snow, to ascend and descend automatically and independently of the sled while maintaining the parallel position of the driving part of the traction element relatively to the runners of the sled.

1,682,623. BELT SCRAPER FOR TRACTORS. JOSEPH MOSCA, Rouse, Colo. Filed Oct. 15, 1926. Serial No. 141,808. 2 Claims. (Cl. 280—158.)



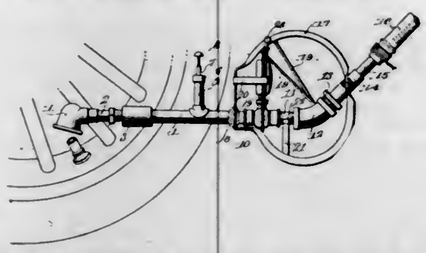
1. A scraper attachment for tractive belts comprising belt embracing supports, a rock shaft journaled therein to overlie and traverse an embraced belt and having a portion of its peripheral surface flattened, a resilient scraper blade secured adjacent one end to the flattened surface of said rock shaft in tangential relation thereto, an adjusting handle secured to one end of said shaft, and means for releasably holding said handle in different adjusted positions of the rock shaft and its tangential scraper blade.

1,682,624. VALVE. JOHN HILL NORTH, Seattle, Wash. Filed Aug. 15, 1927. Serial No. 213,074. 4 Claims. (Cl. 251—90.)



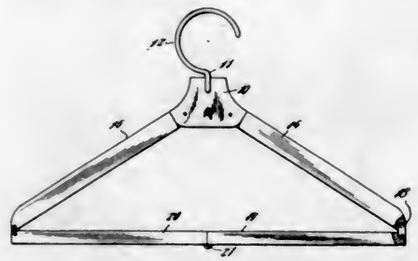
4. A valve comprising a ported body and a ported cover block between which a ported disc is adapted to be rocked to establish communication between ports of the body and ports of the block, and means for exerting a yielding pressure tending to force the block to the disc and the disc to the valve body.

1,682,625. INFLATION DEVICE. EMIL J. OLSEN, North St. Paul, Minn., assignor of twenty-five per cent to Waldo Olsen, twenty-five per cent to Emelia Olsen, twenty-five per cent to Corrine Olsen, and twenty-five per cent to Vernon Olsen, North St. Paul, Minn. Filed Oct. 14, 1927. Serial No. 226,181. 6 Claims. (Cl. 152—11.5.)



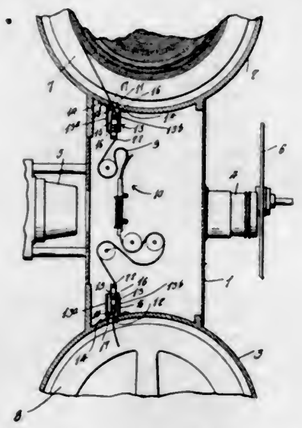
1. An inflating head for air line terminals comprising a length of tubing having an air chuck at one end and an air line connection at the other, an inflation pressure gauge, an air control valve interposed in said tubing mounting and having valved communication with said pressure gauge, said valve having an operating handle and a guard protecting said gauge mounted on said tubing and having portions positioned for engagement by said valve handle in different positions of adjustment of the valve.

1,682,626. GARMENT HANGER. ARTHUR H. PECKHAM, Chiloquin, Oreg. Filed Dec. 6, 1926. Serial No. 152,970. 2 Claims. (Cl. 223—65.)



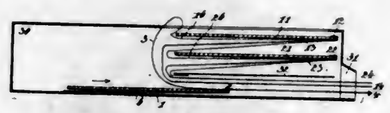
1. A garment hanger of the character described comprising a bridge piece, pivoted sections thereon adapted to extend obliquely therefrom, a bracing bar pivotally connected with the ends of said sections, said bar including pivotally connected sections, whereby the latter and the first mentioned sections of the hanger can be folded in parallelism directly beneath said bridge piece, a hook formed from a single length of material and including opposed companion portions having their corresponding extremities pivoted on the opposite side of the bridge piece for the purpose specified.

1,682,627. FIRE STOP OR TRAP FOR MOTION-PICTURE MACHINES. DON A. RAYMOND, Monticello, Ind. Filed Oct. 13, 1927. Serial No. 225,939. 2 Claims. (Cl. 88—17.)



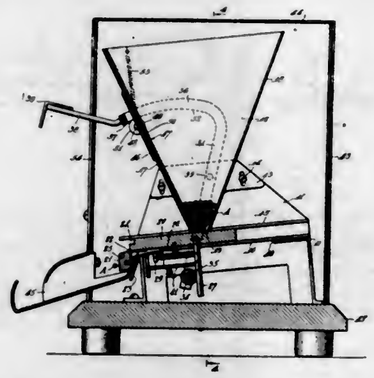
1. A fire stop or trap for motion picture machines, comprising a casing, a plate extending longitudinally of the casing and projecting beyond one end thereof, a flange on the end of the plate within the casing for contact with one wall of the casing, means pivoting the plate to such wall of the casing, a spring interposed between such wall of the casing and the plate, rollers journaled on the plate for contact with the opposite side of the casing, and a roller journaled on the plate beyond the casing.

1,682,628. PHOTOGRAPHIC FILM OR PLATE PACK. MARIAN ROMANOWICZ and JOHANN ROMANOWICZ, Vienna, Austria. Filed May 19, 1927, Serial No. 192,614, and in Austria May 25, 1926. 4 Claims. (Cl. 95—22.)



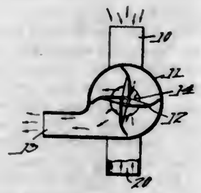
1. In a pack of superposed photographic carriers of sensitized coatings the combination of a plurality of such carriers, a backing sheet and a protecting sheet attached to the front edge of each of such carriers, the backing sheet of each carrier being arranged between such carrier and the protecting sheet of the same and on the same side thereof, the rear end of the protecting sheet of each carrier being connected to the rear end of the backing sheet of the next lower carrier.

1,682,629. DISPENSING DEVICE. LOUIS ROSSI, New York, N. Y., assignor of one-half to Frank A. Sanford, New York, N. Y. Filed May 17, 1927. Serial No. 192,059. 8 Claims. (Cl. 312—79.)



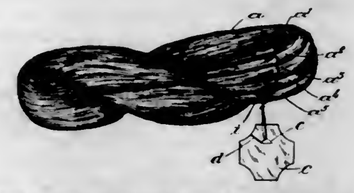
1. A dispensing device including a hopper, a valve element having a receiving pocket registrable with the discharge end of the hopper upon movement of the valve element in one direction for receiving from the hopper through the discharge end, an article to be vended, and means co-operating with the valve element upon movement in an opposite direction for effecting a wide opening of the pocket to cause a discharge of the contents.

1,682,630. MEANS FOR INCREASING BUOYANCY. FREDERICK G. SARGENT, Westford, Mass. Filed Jan. 30, 1928. Serial No. 250,379. 3 Claims. (Cl. 244—18.)



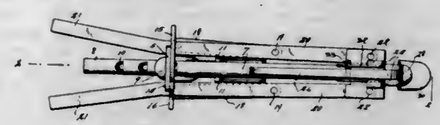
1. In a device for the purpose described, the combination with a tall vertical casing open at the top and closed at the bottom, of a blower rotatable on a horizontal axis and connected with the casing at a point substantially midway between the top and the bottom by an air inlet passage and having an outlet passage extending to the front or rear, whereby the operation of the blower will produce a reduction of air pressure in the bottom of the casing and thus a difference in air pressure on the outside and inside of the bottom wall of the casing to tend to lift it.

1,682,631. HANK OF YARN AND THE LIKE. GOTTHOLD SAYLER, Zittau, Germany. Filed July 2, 1927, Serial No. 203,133, and in Germany May 7, 1926. 4 Claims. (Cl. 242—159.)



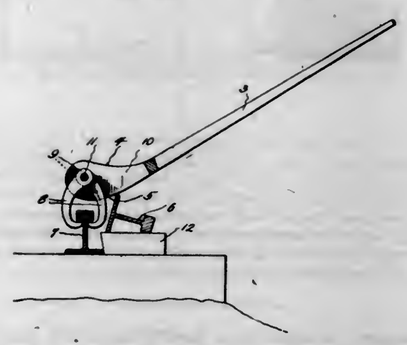
1. A new article of manufacture and sale comprising in combination a hank of yarn and a member on which the yarn can be wound connected to the beginning thread of the hank of yarn.

1,682,632. TIRE SPREADER. ELMER H. SCHAEFFER, Reading, Pa. Filed Nov. 5, 1927. Serial No. 231,333. 6 Claims. (Cl. 152—27.)



1. A tire spreader comprising a plate having a tire engaging lug, links at opposite sides of the plate and pivoted thereto, levers pivoted upon the links, a casting pivoted to the levers, a bar slidably received by the casting, said plate being also slidably engaged with the bar, a head carried by the bar provided with a tire engaging lip, a lever pivoted to the head, and a rigid member pivoted to the casting and having a part engageable with the last named lever.

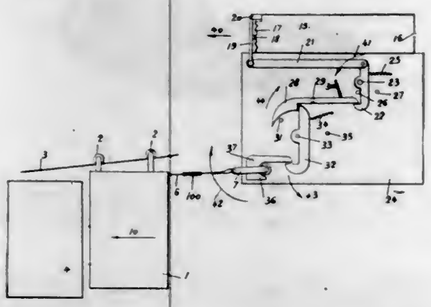
1,682,633. RAIL BREAKER. HERMAN J. SCHRADER, Atkinson, Nebr. Filed Sept. 2, 1927. Serial No. 217,240. 2 Claims. (Cl. 29—66.)



1. A rail breaker comprising an elongated lever having a longitudinal slot in its front portion which opens through its front end and its upper and lower edges, said front

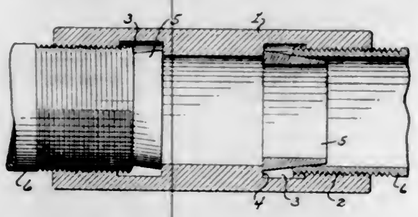
portion of said lever having longitudinally curved cam portions at opposite sides of said slot for contact with a rail to be broken, a pair of grapple hooks whose lower ends are shaped to grip a fixed rail of a track, the upper ends of said hooks being received in said slot and having alined eyes, and a pivot passing through the front portion of the lever and through said eyes.

1,682,634. AUTOMATIC FIRE-PROTECTION DOOR OR SCREEN. JULES SCHWAB, Paris, France, assignor to Societe Thermosonus, Paris, France. Filed June 26, 1926, Serial No. 118,868, and in France June 29, 1925. 6 Claims. (Cl. 189—47.)



1. Arrangement for the automatic control of fire protection closure devices, comprising in combination, a fluid containing expansible chamber, a lever mechanism directly actuated by the expansion of said chamber, a self setting detent mechanism normally operative for retaining the closure device in its open position and normally locked by said lever mechanism, said lever mechanism arranged to move the detent mechanism and to free the closure device for self-closure when the expansible chamber is deformed by a sudden expansion due to a sharp rise of temperature.

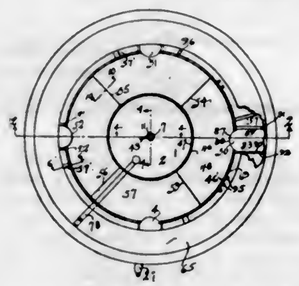
1,682,635. PIPE COUPLING. CHARLES E. SMITH, Three Rivers, Tex. Filed Mar. 25, 1927. Serial No. 178,385. 3 Claims. (Cl. 285—157.)



1. A pipe coupler having its bore threaded from the ends thereof and having annular pockets at the terminals of the threads, and hollow frusto conical expanders formed independent of the coupling and designed to be arranged therein and have their widened ends contact with the inner walls of the pockets and to project into the threaded portion of the bore of the coupler and engage with pipes which are screwed in the coupler.

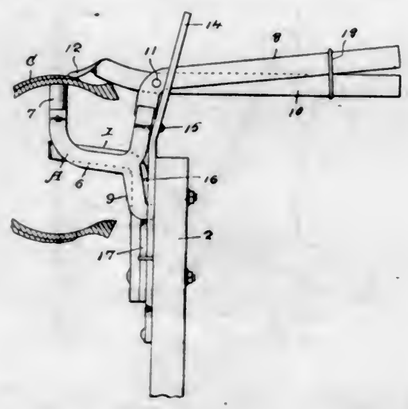
1,682,636. MECHANICAL BASEBALL GAME. GOLDWIN SMITH, Tampa, Fla. Filed Aug. 20, 1927. Serial No. 214,317. 18 Claims. (Cl. 273—117.)

1. In a device of the class described, the combination with a ball, of rotatable means, a stationary field surrounding said means and having a plurality of pockets therein, manually operative means to rotate said first



mentioned means, and movable means adapted to strike and drive said ball from said first mentioned means toward said field, substantially as and for the purposes specified.

1,682,637. TOOL. HOSEA C. SMITH, Pine Bluff, Ark. Filed July 7, 1927. Serial No. 204,030. 2 Claims. (Cl. 78—48.)

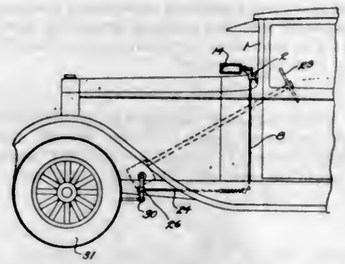


1. A riveting tool comprising a stationary support, a pin thereon, a member slidably mounted on the support, a tube carried by said member and fitting over the pin, a hand operated latch for normally holding the slidable member in raised position, a handle connected with the slidable member and a second handle pivoted to the first handle and having a part for holding an object on the upper end of the tube.

1,682,638. LEFT-HAND-TURN LIGHT. JUDGE SWAN, Detroit, Mich. Filed May 31, 1927. Serial No. 195,353. 2 Claims. (Cl. 116—47.)

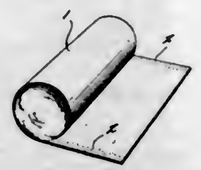
1. In a device of the class described, a substantially vertical shaft, means for operating the shaft, means for supporting the shaft for rotation on a vehicle, an arm on the shaft, a signal journaled on the arm and comprising an illuminating pane and a signal pane disposed at an angle to each other, a pinion secured to the signal, a fixed rack wherewith the pinion meshes, the rack having inner and outer stops, the pinion engaging the inner stop to dispose the signal parallel to the line of advance of the vehicle with the illuminating pane in a substantially vertical position and exposed at the outer side of the signal, the pinion engaging the outer stop to dispose the signal at an angle to the line of advance of the vehicle with the signal pane in a substantially vertical position and exposed to view,

means for connecting the arm releasably to the shaft whereby the arm may be disconnected from the shaft and swung inwardly on the shaft across the vehicle with the



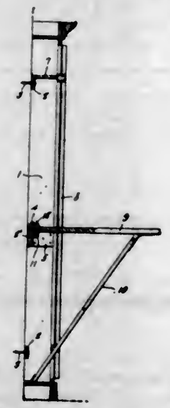
illuminating pane at the front of the signal and transverse to the line of advance of the vehicle, thereby to light the road ahead.

1,682,639. BLASTING PAPER. G. FARRIS TEMPLEMAN, Lexington, Ky. Filed July 10, 1926. Serial No. 121,681. 1 Claim. (Cl. 102—6.)



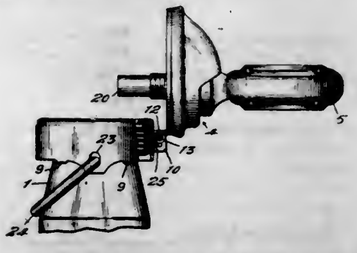
In a blasting charge container, a roll of blasting paper having adhesive material on its longitudinal edges, said roll being adapted so that a sheet of paper can be taken therefrom with adhesive material on two edges thereof for forming a tube by rolling the sheet from either of its said two edges whereby one of the edges may be used for sealing the sheet in tube formation.

1,682,640. IRONING-BOARD CABINET. ROBERT J. THOMPSON, Baton Rouge, La. Filed Apr. 25, 1927. Serial No. 186,411. 1 Claim. (Cl. 68—10.)



A device of the class described comprising a vertically arranged cabinet having its rear open and provided with side and end walls and a front having a door opening therein, a hinged door for closing the opening, upper and lower cross pieces at the rear of the cabinet for fastening the cabinet to a wall, a central cross piece at the rear of the cabinet, a side piece connected with the central part of each side wall and having its rear end abutting the central cross piece, each side piece having a notch in its upper rear edge, a brace having its lower end hinged to the bottom wall of the cabinet, a board hingedly connected with the upper end of the brace, a cross strip on the inner end of the board having its ends projecting beyond the side edges of the board and adapted to engage the notches in the side pieces when the board is in horizontal position, a latch on the inner end of the board and a keeper on the upper edge of the central cross piece for receiving the latch for locking the board in horizontal position.

1,682,641. RADIATOR CAP. GEORGE H. TOWNSEND, Greenwich, Conn., and HERMAN SCHLAICH, Long Island City, N. Y. Filed Mar. 18, 1925. Serial No. 16,315. 8 Claims. (Cl. 220—24.)



1. In combination, a radiator neck, a collar encircling and resting on said neck, a compressible gasket interposed between the collar and the top of the neck, a cap resting on the collar, a compressible gasket interposed between the cap and the collar, and means bearing against the neck and the cap for pressing them toward one another and thereby compressing both of said gaskets to seal the joints between the collar and the neck, and between the collar and the cap.

1,682,642. INCANDESCENT CATHODE. BALTHAZAR VAN DER POL, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampen Fabrieken, Eindhoven, Netherlands. Filed May 11, 1925, Serial No. 29,526, and in the Netherlands May 21, 1924. 7 Claims. (Cl. 250—27.5.)

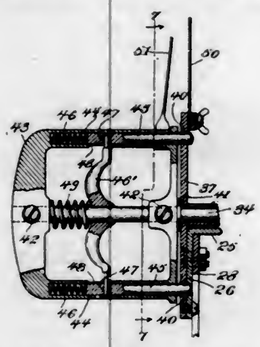


1. A cathode for a discharge tube comprising a pair of parallel lead-in wires, a pair of parallel filament wires parallel to the said lead-in wires and connections so that the current in each pair of wires is in the same direction.

1,682,643. SIGNAL-OPERATING MEANS. GEORGE J. VAROUTSOS, Lowell, Mass. Filed Nov. 24, 1926. Serial No. 150,506. 4 Claims. (Cl. 74—39.)

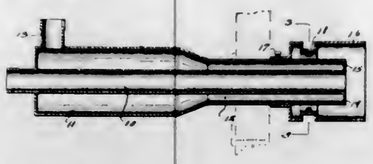
3. Signal operating means comprising in combination with a rotatably mounted shaft, a rigidly mounted plate

through which the shaft extends, a substantially stirrup-shaped handle rigid with the shaft to rotate the latter, spring actuated means to lock the handle to the plate and



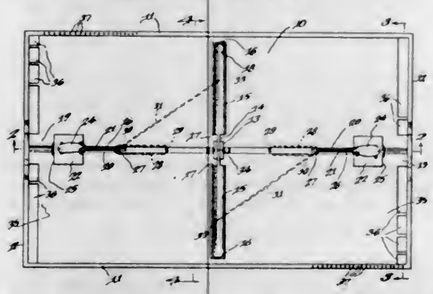
hold the shaft against rotation, and means slidable longitudinally of the shaft within the handle and connected with the handle locking means to release the latter.

1,682,644. OIL BURNER. MELBOURNE E. VEZIE, Cushing, Okla. Filed Sept. 20, 1927. Serial No. 220,735. 1 Claim. (Cl. 158—74.)



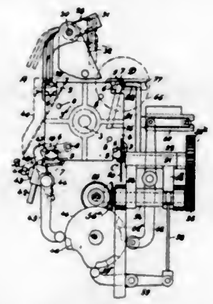
In a furnace having a fire box, an oil burner comprising a centrally disposed oil pipe, a concentrically disposed steam pipe terminating at one end with the discharge end of the oil pipe and being connected thereto at this end by an apertured wall, the apertures being arranged concentrically to the opening in the steam pipe, an air sleeve surrounding the forward end of the steam pipe and being longitudinally adjustable thereon and spaced from the steam pipe and extending beyond the same, the rear portion of the sleeve having an inwardly extending hollow rib concentric to the steam pipe and disposed closely adjacent thereto, this rib being formed with a plurality of perforations, the air inlet openings of this air sleeve being disposed within the fire box.

1,682,645. GAME APPARATUS. MILTON D. VOLLMER, Willow City, N. Dak. Filed Aug. 10, 1927. Serial No. 212,076. 5 Claims. (Cl. 273—119.)



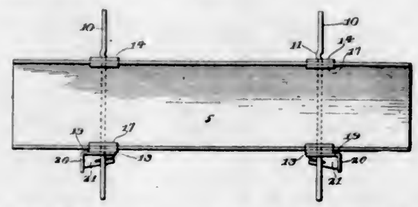
1. In a game apparatus, a teeter structure providing two opposite aligned guide ways having adjacent end portions opened to provide a transverse pasage, a ball movable in the guide ways toward said opening, means yieldably urged in a direction substantially at right angles with respect to said teeter structure toward said opening for striking engagement with said ball to throw said ball from movement in said guide ways when said ball reaches said opening, and means operable by said ball striking means for imparting see-saw action to said teeter structure to cause said ball to gravitate toward said opening.

1,682,646. MACHINE FOR PRODUCING WOOD SCREWS FROM PRESSED BLANKS. GUSTAV WEBER, Cologne-on-the-Rhine, Germany. Filed Nov. 30, 1925, Serial No. 72,253, and in Germany Oct. 28, 1924. 12 Claims. (Cl. 10—2.)



1. A machine for the production of wood screws from pressed blanks, comprising in combination a feeding device and a delivering device at the first working point of a circle, a thread cutting tool at the second working point of the circle, and rotating tongs at this second working point for gripping and rotating the corresponding work during the thread cutting, a circular saw for cutting the slit in the bolt head at a third working point of the circle, a tool head with cutting tools for turning off the head of the bolt at a fourth working point of the circle, means for rotating said tool head, a work holder in said circle, said work holder having four axial grooves, means for securely holding a work in each groove, means for intermittently rotating said work holder to bring each groove successively from one working point to the other and for stopping said work holder after each part rotation in front of the grooves, and means for advancing said work holder after every part rotation to push the head of one work into said rotating tongs to bring the head of another work into the range of the circular saw and to bring the head of another work into the range of said turning tools and for moving said work holder back prior to every part rotation.

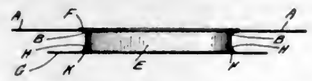
1,682,647. BRAKE-BEAM SUPPORT. ROBERT D. J. BURNS WEBBER, Allentown, Pa. Filed May 19, 1927. Serial No. 192,641. 6 Claims. (Cl. 188—210.)



1. In a brake beam support of that type including a connecting element between the side frames of a truck, the combination of supporting beams disposed transversely of and below said element, and each formed with a transversely extending lateral offset and a slot spaced from the lateral offset, said offset forming the beam with an integral abutment, combined coupling and supporting members

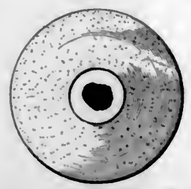
mounted on said beams and detachably engaging with said element for connecting it with said beams, and means extending through said slots for maintaining certain of said coupling members in abutting engagement with said offsets and all of said members from shifting on said beams and in coupling position with respect to said element.

1,682,648. TOILET-SEAT COVER. JOSEPHINE M. WEED, New York, N. Y. Filed Mar. 5, 1928. Serial No. 259,027. 2 Claims. (Cl. 4—243.)



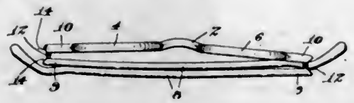
1. A toilet seat cover comprising a sheet of tissue paper, having an opening conforming to the opening in the seat and adapted to cover the top of the seat, a sheet of tissue paper having a similar opening and adapted to extend laterally from the opening in the seat to cover the underside of the seat, and a strip of tissue paper adapted to cover the wall of the opening extending circumferentially of the openings in the two sheets of paper and uniting them, the arrangement being such that both the upper and lower sides of the seat and the wall of the opening therein are protected with a continuous covering of tissue paper.

1,682,649. GRINDSTONE AND METHOD OF MAKING SAME. JOHN L. WELLER, Hamilton, Ontario, Canada. Filed Dec. 11, 1926. Serial No. 154,277. 3 Claims. (Cl. 51—278.)



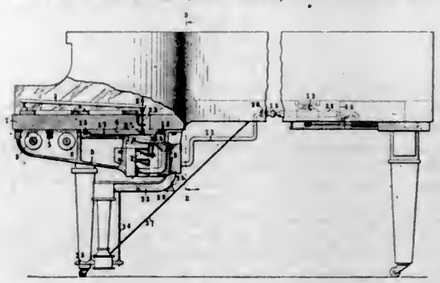
2. A method of producing abrasive stones which consists in taking a material having substantially the desired grinding qualities of the finished stone, crushing it to form a coarse aggregate; forming a plastic, self-setting, cementitious mixture, adapted when set to possess substantially the same grinding qualities as the material employed for the aggregate; mixing the aggregate with sufficient of the plastic mixture to fill all voids; and effecting the setting of the mixed mass, whereby a stone is formed substantially uniform throughout in its abrasive qualities and free from internal stresses.

1,682,650. OPHTHALMIC MOUNTING. JAMES WILSON WELSH, Providence, R. I., assignor to Bausch and Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 24, 1925. Serial No. 52,001. 3 Claims. (Cl. 88—47.)



2. An ophthalmic mounting comprising a resilient lens-holding front and two temples, the lens-holding front having two lens-holding rims connected by a bridge, each lens-holding rim lying in substantially a plane, and the planes diverging from the bridge in directions towards the respective temples, each temple having a forward portion and a rear portion, the rear portions being adapted to engage opposite sides of a wearer's skull, the temples being pivoted to the lens-holding front at their forward portions, and the pivotal movement of the temples being limited, whereby the lens-holding front will be flexed into substantially a plane by the engagement of the rear portions of the temples with the opposite sides of the skull.

1,682,651. PLAYER PIANO. FRANK C. WHITE, Meriden, Conn., assignor, by mesne assignments, to Simplex Player Action Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 24, 1921. Serial No. 455,346. 15 Claims. (Cl. 84—26.)

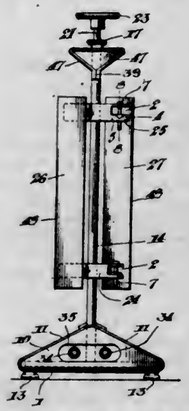


1. In a grand player piano, in combination, a manual piano action, and a pneumatic player system co-operating therewith and including a drawer supported by the piano case and horizontally movable beneath the key bed and carrying in relatively fixed relationship therewith a tracker bar and striker pneumatics, with means of connection between said pneumatics and said piano action effective for playing in different positions of said drawer.

1,682,652. IMPREGNATED MATERIAL AND METHOD OF TREATING THE SAME. LYMAN F. WHITNEY, Boston, and WILLIAM E. WHITNEY, Newton, Mass., assignors, by mesne assignments, to Rajet Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 15, 1924. Serial No. 686,464. 11 Claims. (Cl. 91—68.)

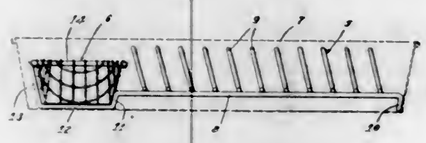
1. A new article of manufacture comprising chrome leather impregnated with nitrocellulose and glycerine.

1,682,653. ELECTRIC TOASTER. FREDERICK JACKSON ALDERSON, Kingston, Ontario, Canada. Filed Dec. 7, 1925. Serial No. 73,853. 6 Claims. (Cl. 53—5.)



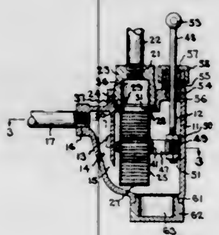
2. In an electric toaster the combination, with a heating element, of a base formed with inwardly and upwardly sloping sides, a head in spaced relationship to the base and formed with inwardly and downwardly sloping sides and reflector surfaces for said sides.

1,682,654. DISH DRIER. ARTHUR G. ANDREWS, Rockford, Ill., assignor to The Washburn Company, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 9, 1926. Serial No. 134,374. 3 Claims. (Cl. 141—11.)



1. A device of the character described, comprising a dish tray having a wire frame composed of longitudinal wires and cross wires thereon, said longitudinal wires being bent downwardly at one end of said frame to provide means for supporting said tray in elevated relation to its support, said longitudinal wires being bent downwardly similarly at the other end of said frame for a similar purpose and being bent outwardly to provide an end support beyond said cross wires in the form of an extension of said frame, the free ends of said longitudinal wires being bent upwardly, said wires outwardly of the cross wires being adapted to support a silverware basket.

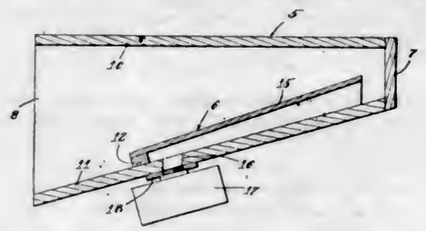
1,682,655. OIL STRAINER. JOHN S. ARMOUR, Harrison, Ohio, assignor to The Campbell Hausfeld Company, Harrison, Ohio, a Corporation of Ohio. Filed Sept. 26, 1925. Serial No. 58,941. 1 Claim. (Cl. 210—167.)



A strainer comprising a casing having an inlet opening at its lower portion, an outlet opening at its upper portion, a removable plug in the latter, a perforated tube received in said casing through said outlet opening and extending in said cavity above said inlet opening, a wiping ring received about said tube and the perforations in said tube, a fork with which said ring has pivotal connections at opposite sides of said tube, a rod connecting with said fork and extending outside said casing, a packing between said casing and said rod in which said rod has axial movement for moving said wiping ring lengthwise of said tube across said perforations, said casing provided with an opening below said tube and ring, and a removable plug to close said opening and form a trap in said casing below said inlet opening.

1,682,656. LOUD-SPEAKER HORN. JOHAN O. BERGMAN, Rockford, Ill., assignor to Rockford Novelty Furniture Company, Rockford, Ill., a Corporation of Illinois. Filed Apr. 9, 1926. Serial No. 100,782. 5 Claims. (Cl. 181—27.)

4. An amplifier horn comprising a main horn of a truncated bell form having a back wall and diverging side walls extending outwardly therefrom, and a secondary horn built onto one of the side walls of said main horn using said side wall as one of the side walls of said secondary horn, said secondary horn being reversed in relation to said main horn and directed toward the back wall thereof, the small



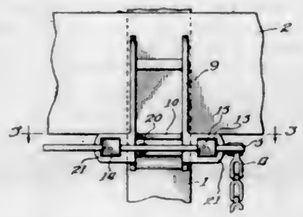
end of said secondary horn being arranged to have communication with a source of sound, and the large end thereof communicating with the small end of said main horn.

1,682,657. BRUSHLIKE IMPLEMENT FOR PAINTING WITH LIQUID SUBSTANCES. ERNST BLANK, Eitorf-on-the-Sieg, Germany. Filed Aug. 24, 1925, Serial No. 52,119, and in Germany Dec. 15, 1924. 1 Claim. (Cl. 128—269.)



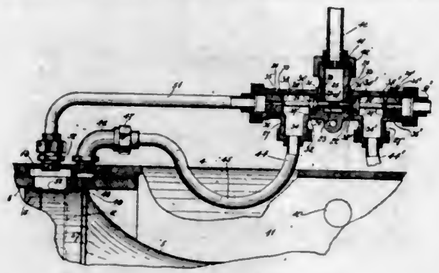
A dabbing-instrument comprising in combination a bundle of cotton-wool wicks, a tubular cover of extensible fabric enclosing said bundle of wicks so that these wicks project at both ends of said cover, and a rod having a point and incisions behind said point adapted to be inserted into the bundle of wicks to spread the same and to expand said cover of fabric.

1,682,658. TIMBER CLAMP. GEORGE B. BOSCO, Chicago, Ill. Filed Nov. 6, 1926. Serial No. 146,653. 3 Claims. (Cl. 304—41.)



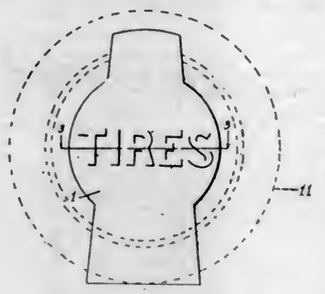
1. A clamp for securing together two crossed members comprising a bracket adapted to engage one of the members, a sling adapted to embrace the other of said members and having its ends spaced apart and adjustably secured to said bracket, and a wedge secured to the ends of said sling and spanning the gap therebetween.

1,682,659. LUBRICATING DEVICE. ARTHUR L. BAIDEHAM, Boston, Mass. Filed Aug. 29, 1925. Serial No. 53,415. 11 Claims. (Cl. 184—55.)



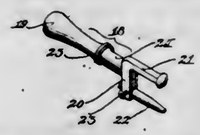
1. In combination, a reciprocating member, a bearing therefor, and means for lubricating the joint between said member and bearing when the reciprocating member is occupying a determinate position with relation to the bearing to form said joint, said means comprising a chamber which contains fluid under pressure, an oil supply, communications, one with an outlet into said joint and the other controlled by the reciprocating member to have intermittent open communication with said pressure chamber and closure therefrom as said member is reciprocated, and means whereby oil from the oil supply will be supplied to and pocketed within said other of the communications when it is closed from the pressure chamber during one phase of the reciprocation of said member and whereby also oil thus pocketed within said other of the communications will be ejected therefrom by the fluid pressure within the pressure chamber through said one of the communications first mentioned into said joint for lubricating the joint when said member is occupying its determinate position as aforesaid to form said joint and is permitting also open communication between said other of the communications and the pressure chamber.

1,682,660. DISPLAY STAND. MILTON C. BURKE, Kalamazoo, Mich., assignor to Merchants Publishing Company, Kalamazoo, Mich. Filed Sept. 14, 1925. Serial No. 56,370. 3 Claims. (Cl. 211—24.)



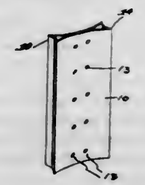
1. A display stand comprising a front member and a pair of strut members formed of a single piece of material scored for folding, one of the strut members being wider than the other, the narrower strut member having projecting tongues on its edge, the wider strut member having horizontally disposed U-shaped slits positioned to receive the said tongues, the partially severed portions formed by the slits constituting clutch members engaging the tongues when they are disposed through the slits, the upper ends of the struts being recessed to receive the article to be supported and the front member projecting above the struts, the struts having segmental slits terminating in their front edges providing wing-like extensions for the front member.

1,682,661. LIGHTER. JOSEPH T. BURNS, Philadelphia, Pa., assignor of one-half to Clarence Y. Hibbs, Philadelphia, Pa. Filed Aug. 23, 1927. Serial No. 214,810. 2 Claims. (Cl. 219—32.)



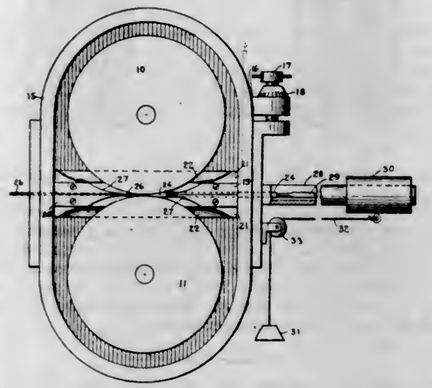
1. A lighter including a handle of non-conducting material, a contact of low resistance material secured to the handle, and a contact of high resistance material having one end connected to the other contact.

1,682,662. NAILING BLOCK. SAMUEL D. BUTTERWORTH, Miami Beach, Fla. Filed Aug. 20, 1926. Serial No. 130,382. 5 Claims. (Cl. 72—101.)



1. A nailing block comprising a pair of oppositely disposed metal members, these members being spaced apart near their edges and having their edges turned over toward each other and into substantially abutting relation to form directly opposed nail gripping members.

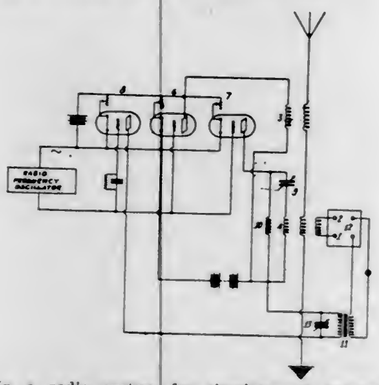
1,682,663. MACHINE FOR REDUCING OR TRIMMING MATERIAL IN STRIP FORM. HERMAN E. S. CHAYES, New York, N. Y., assignor, by mesne assignments, to Chayes Dental Instrument Corporation, New York, N. Y., a Corporation of Delaware. Filed July 23, 1921. Serial No. 487,133. 2 Claims. (Cl. 51—82.)



1. In combination, reducing wheels for operating on opposite faces of a strip of material, relatively spaced entrance and exit guides for the strip material, a plate con-

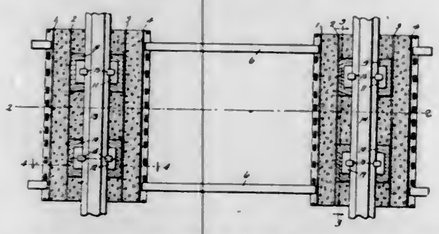
necting said guides, said plate having its center portion cut away and said guides having tapered portions extending into the cut away portion of the plate and entered between the reducing wheels.

1,682,664. RADIO TRANSMISSION RECEIVING SYSTEM. HENRI CHIREIX, Paris, France. Filed Aug. 29, 1921, Serial No. 496,666, and in France Jan. 16, 1920. 3 Claims. (Cl. 250—9.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a radio system for simultaneous transmission and reception at the same frequency, the combination of a common unifilar transmitting and receiving antenna, a receiver tuned to the common transmitting and receiving frequency and coupled to a portion of said antenna, transmitting apparatus coupled to a second portion of said antenna in series with the first portion, means for detecting a portion of the transmitter current, and means for introducing said detected portion of current into said receiver circuit in a manner to neutralize therein effects due to transmitting current.

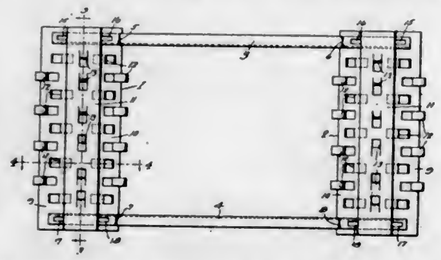
1,682,665. RAIL SUPPORT. WILLIAM P. DAY, Cleveland Heights, Ohio. Filed July 13, 1927. Serial No. 205,340. 13 Claims. (Cl. 238—25.)



1. A rail support of the character described comprising a plurality of spaced parallel plates extending parallel with the track, parallel cross beams extending transversely of the track and connecting said plates and holding the same in spaced relation, concrete filling the spaces between said plates, bearing blocks disposed between two of said plates and resting loosely therebetween, a tie plate carried by each of said bearing blocks and means for fastening a rail to said bearing blocks.

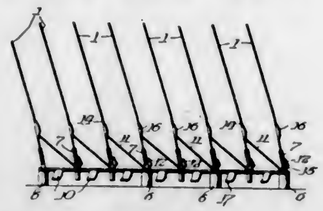
1,682,666. RAIL SUPPORT. WILLIAM P. DAY, Cleveland Heights, Ohio. Filed Aug. 1, 1927. Serial No. 209,779. 8 Claims. (Cl. 238—25.)

1. A rail support of the class described embodying a pair of hollow, parallel metallic beams, each of said beams having slots therein adjacent the ends thereof, cross bars extending through said slots and holding said beams in spaced relation, clamping members secured to said beams



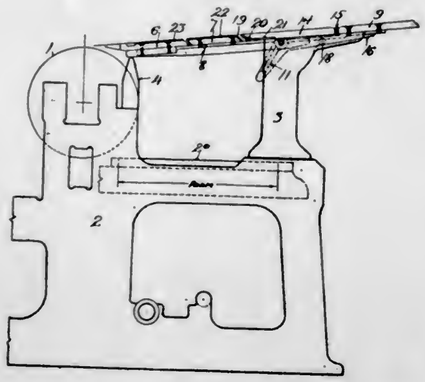
and cross bars and serving also to clamp a rail to each of said beams and concrete filling said beams and the space between said rails.

1,682,667. EXPANSIBLE LOOSE-SHEET HOLDER. JOSEPH EIFEL, Chicago, Ill. Filed Sept. 1, 1921. Serial No. 497,609. 13 Claims. (Cl. 45—2.)



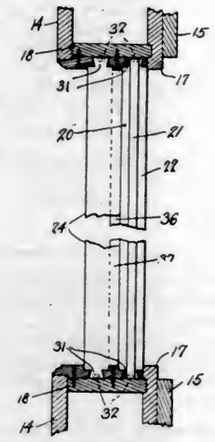
1. A filing appliance comprising in combination a series of file leaves, members movable relatively to said leaves, each having an upwardly turned end adapted to pass under the edge of one file leaf and an opposite end adapted to rest against the adjacent file leaf and thereby hold the contents of the file in place.

1,682,668. FOLDING FEED TABLE FOR PRESSES. FRED S. ENGLISH, New London, Conn. Filed Sept. 2, 1926. Serial No. 133,216. 8 Claims. (Cl. 271—61.)



1. In a press, a feed table for the stock, comprising front and rear sections mounted on supports to permit said section to be swung into and out of active position, at least one of said sections including table leaves arranged to fold in relation to each other, for the purpose set forth.

1,682,669. WINDOW. CLAUD H. FREELAND, Lansing, Mich. Filed Aug. 17, 1925. Serial No. 50,772. 1 Claim. (Cl. 20—52.)



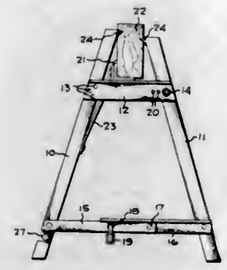
A window structure comprising a frame having spaced parallel vertically disposed strips adapted to provide dovetail grooves therebetween and within the sash runs, sashes for the frame, the side rails of the sashes being provided with dove-tail portions slidably mounted within said grooves, and fillet strips carrier within the dove-tail adapted for frictional engagement with the frame within the grooves.

1,682,670. WINDOW CONSTRUCTION. BERTRAM J. GOLDSMITH and EMIL KOEB, New York, N. Y., assignors to Perfect Window Regulator Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed Oct. 23, 1925. Serial No. 64,304. 6 Claims. (Cl. 296—44.)



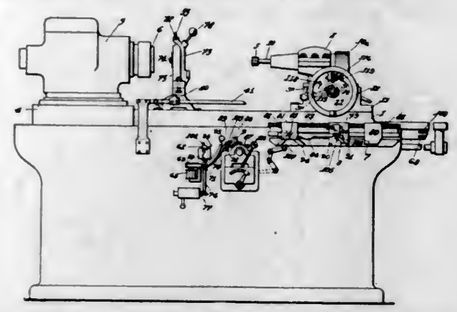
1. A window frame provided with side members a combined metallic guideway and garnish strip fastened to said side members and provided with a free unsupported edge having channel members bent out of the metal thereof, a window sash having its side edges frictionally held and slidably mounted in said channel members and means whereby said guideways and garnish strips may be detachably secured to or detached from said frame while said sash in mounted therein.

1,682,671. COLLAPSIBLE BENCH LEG. GEORGE F. GOODING, Seattle, Wash. Filed Dec. 8, 1925. Serial No. 74,084. 3 Claims. (Cl. 304—5.)



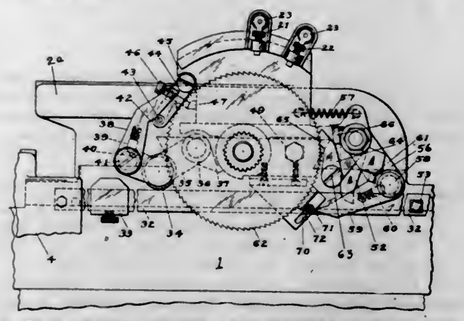
1. A collapsible bench leg of the class described embodying two leg members, toggle links connecting the lower ends of said leg members and a cross bar extending between the upper ends of said leg members said cross bar being rigidly secured to one of said leg members and pivotally secured to the other leg member.

1,682,672. GRINDING MACHINE. WALDO J. GUILD, Worcester, Mass., assignor to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 7, 1925. Serial No. 48,734. 21 Claims. (Cl. 51—165.)



1. The combination with a grinding machine comprising means for supporting the work, means for supporting a grinding wheel, means for producing a reciprocating motion of one of said before-mentioned means with relation to the other, means to so control said motion as to cause a relative traversing motion between the wheel and the work, one past the other in contact, or to cause withdrawal of one from contact with the other and subsequent restoration to contact, a tool for dressing the grinding wheel so mounted that it is engaged my the said wheel when the contact between the work and grinding wheel has been so interrupted, and feeding mechanism that causes the grinding wheel and work to move one relative to the other transverse to said traversing motion to maintain grinding contact; of devices operated directly by said feeding mechanism and operable on said motion-controlling means to cause the withdrawal motion and then to restore the contacting traversing relation of work and grinding wheel, whereby the grinding may proceed by a succession of uninterrupted traversing motion confined to the surface to be ground, and at a stage determined directly by the movement of the feeding mechanism, the contact of grinding wheel and work is automatically interrupted, the grinding wheel is dressed and traversing contact with the work is resumed.

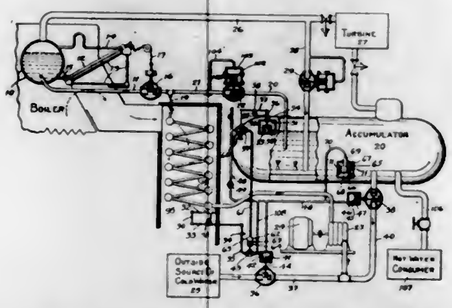
1,682,673. GRINDING MACHINE. EDWARD M. TAYLOR, Worcester, Mass., assignor to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 25, 1926. Serial No. 83,592. 13 Claims. (Cl. 51—165.)



1. In mechanism of the class described, a transverse feeding element, a driving member therefor, gearing con-

necting said feeding element to said driving member, automatic means for progressively advancing said driving member, a table mounted for movement on a machine frame providing for a traverse between the work and tool and an extended movement, and means responsive to extended movement of said table for changing the setting of the gearing connecting said feeding element to said driving member.

1,682,674. STEAM PLANT. WILLIAM THEODORE HEDLUND, New York, N. Y. Filed Sept. 2, 1925. Serial No. 54,096. 38 Claims. (Cl. 122—35.)



1. A feed water heater adapted to be heated by a heating agency with valve mechanism to control flow through the same responsive to temperature of the heating agency and a boiler supplied with water from said feed water heater.

10. In a steam plant, in combination, a boiler, a feed water heater therefor, means to supply cold water to said heater, an accumulator, means to supply hot water to said heater from said accumulator and automatic means responsive to variations of plant load to control the relative amounts of hot and cold water supplied.

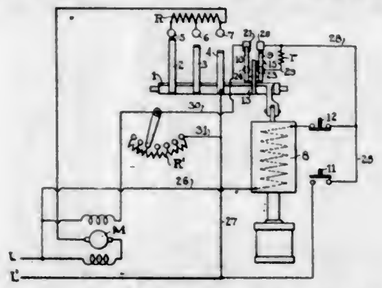
1,682,675. REFRACTORY HEAT-INSULATING MATERIAL AND METHOD OF MAKING THE SAME. BASIL T. HORSFIELD, Badin, N. C., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 7, 1925. Serial No. 73,893. 24 Claims. (Cl. 106—9.)



1. The method of making a refractory material, comprising melting a refractory oxide, changing the molten oxide into the form of strong hollow substantially spherical globules, and bonding the same with a refractory binder.

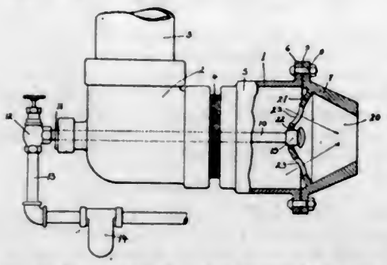
1,682,676. ELECTROMAGNETICALLY-OPERATED DEVICE. ALBERT J. HORTON, White Plains, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 22, 1918. Serial No. 241,364. 17 Claims. (Cl. 175—375.)

1. In combination, an electromagnetically operated device, an energizing switch therefor requiring manual retention in closed position, a resistance for inclusion in circuit with the winding of said device upon operation thereof to a given degree, and an auxiliary switch having a contact element attached to and movable with said



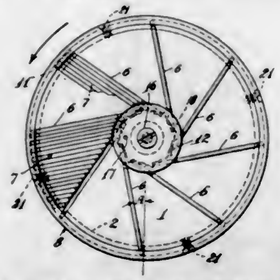
device to first establish an energizing circuit therfor independent of said first-mentioned switch and to subsequently include said resistance.

1,682,677. OIL BURNER. WALTER KAUFFMAN, Columbus, Ohio. Filed Jan. 25, 1927. Serial No. 163,522. 1 Claim. (Cl. 158—76.)



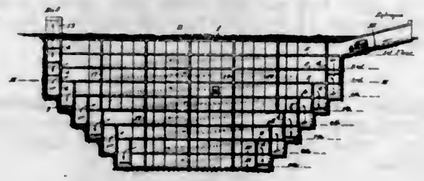
An oil burner embodying a low pressure air blast conduit, a distributing head removably carried by the outer end of said conduit and formed to include a forwardly converging mixing chamber, a wall formed integral with the inner end of said head of substantially conical form, said wall being provided with openings establishing communication between said chamber and said air blast conduit, the axes of said openings intersecting the axis of said chamber, and oil supply pipe passing longitudinally through said conduit, a spray nozzle carried by the outer end of said pipe and communicating with the inner end of said chamber, said nozzle being formed to include a discharge orifice, and a spring pressed valve serving normally to close said orifice but responsive to fluid pressures within said pipe to admit of the passage of oil through said orifice to inject the oil in spray form into said chamber.

1,682,678. FINISHING DEVICE. JOHN J. W. KENAN, Crafton, Pa. Filed Feb. 9, 1927. Serial No. 166,858. 7 Claims. (Cl. 29—79.)



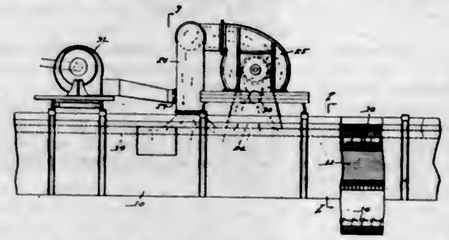
1. In a finishing device of the character described, a plane rotatable disc-member; a plurality of straight removable cutting-blades positioned on said disc-member and arranged in groups, each group comprising a straight major blade and a plurality of straight minor blades disposed in parallel relation to said major blade, each of said major and minor blades having at its outer end a lug; a clamping ring of substantially L-shaped cross-section fitting about said disc member and adapted to engage simultaneously said lugs, and a cap positioned centrally on said disc-member adapted to engage the inner ends of said major blades and of some of said minor blades.

1,682,679. SUBTERRANEAN BUILDING. CHARLES B. LAWTON, Detroit, Mich. Filed Mar. 3, 1927. Serial No. 172,307. 11 Claims. (Cl. 20—1.13.)



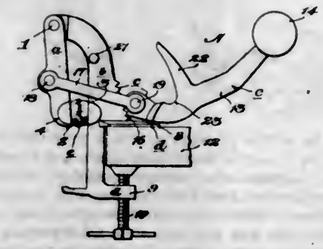
1. A subterranean building having floors gradually decreasing in area, and ramps at the marginal edges of said floors with said ramps continuous from the lowermost floor to the uppermost floor.

1,682,680. METHOD OF PREPARING A FUEL PRODUCT. HENRY F. MAUBEL, Providence, R. I. Filed Apr. 28, 1926. Serial No. 105,284. 7 Claims. (Cl. 44—28.)



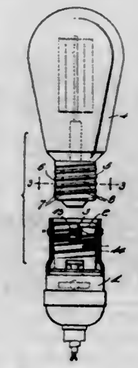
1. The method of preparing fuel containing moisture and hydro-carbons, which consists in driving the oil vapors and steam coming from the fuel, together with the air or oxygen required in the treatment around back under the fuel and through the body thereof and over the heating means to heat the said vapors and introduce them into the fuel to raise the fuel to the required temperature.

1,682,681. NUTCRACKER. FRANK E. MODLIN, Glendale, Calif. Filed June 26, 1926. Serial No. 118,788. 4 Claims. (Cl. 146—16.)



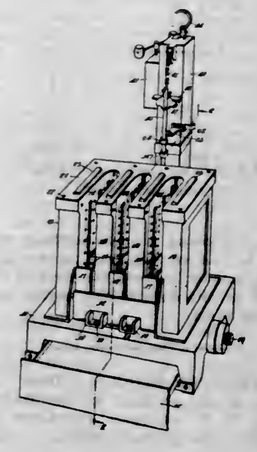
1. In a device of the character disclosed, a pair of jaws hinged together, a handle member, a link between one of said jaws and said handle, the other of said jaws being formed with an inclined wall, said handle being adapted to wedge against said inclined wall to move the link and in turn cause relative movement of the jaws.

1,682,682. SPRING LOCK FOR INCANDESCENT LAMPS. FREEMAN H. OWENS, New York, N. Y. Filed Mar. 17, 1926. Serial No. 95,304. 6 Claims. (Cl. 176—31.)



1. A spring locking device for incandescent lamps having a threaded base adapted to engage a screw threaded socket, said locking device including a plurality of rows of indentations formed in the screw threaded base of said lamp and a spring wire member having portions bent upon themselves forming a pair of parallel extending portions encircling said screw threaded socket and passing through an aperture therein for engaging the indentations formed in said screw threaded base for preventing said base from turning in said socket under conditions of shock vibration.

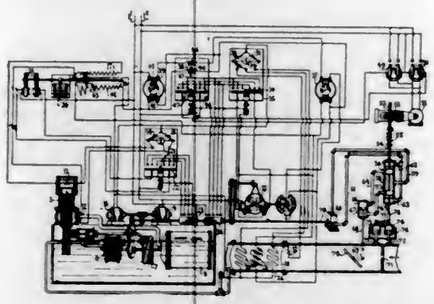
1,682,683. TOASTER AND BROILER. ANGELO C. PARODI, Jersey City Heights, N. J. Filed June 27, 1925. Serial No. 40,028. 3 Claims. (Cl. 219—19.)



2. A device of the class described including holders adapted to receive material to be subjected to heat, a vertically reciprocating operating rod operatively connected

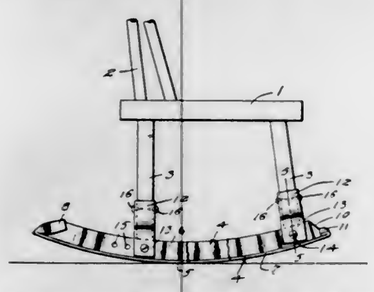
with said holders, and a weight having guided vertical movement and having a connection with said rod to actuate the same, together with means to raise said weight, said weight being adapted to descend gravitationally.

1,682,684. FUEL-FLOW REGULATOR FOR CONSTANT HEAT. CLARENCE S. PINKERTON, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 13, 1926. Serial No. 148,235. 16 Claims. (Cl. 236—1.)



1. In apparatus for maintaining of substantially constant value the total available heat of a flow of fluid, the combination with a conduit, of an adjustable valve for controlling the rate of flow of fluid therethrough, and means for effecting automatic adjustment of said valve, said means including a calorimeter and an electric fluid meter and being adapted to operate as a function of both the total heat per unit quantity of the fluid and the quantitative rate of flow thereof, and said means being also adapted to compensate for variations in temperature, pressure and saturation conditions of said fluid.

1,682,685. CHAIR ROCKER. CONOE C. RODERY, Hornersville, Mo. Filed Apr. 16, 1925. Serial No. 23,635. 2 Claims. (Cl. 155—74.)



1. A rocker comprising a base, portions returned over said base, ribs in contact with each other and rising from said portions at a point between the sides of the base, and integral guards at the ends of the rocker engaging said ribs to reinforce them.

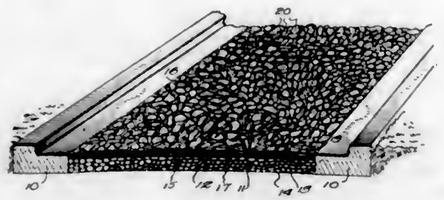
1,682,686. SPELLING BLOCKS. JOHN RUTHERFORD, Slingerlands, N. Y., assignor to The Embossing Company, Albany, N. Y., a Corporation of New York. Filed May 11, 1927. Serial No. 190,410. 4 Claims. (Cl. 35—9.)

3. A spelling-block outfit of the kind described for use by children as a toy, comprising a plurality of rectangular base blocks of uniform size and a plurality of smaller letter blocks of uniform size whereby a plurality of letter blocks may be placed on a single base block, each base block having a plurality of aligned shallow recesses



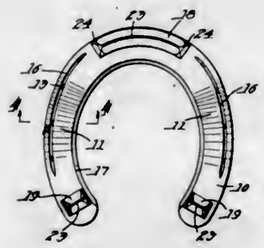
in its upper face and each letter block having a short flat projection on its lower face adapted to fit into the base block recesses.

1,682,687. CONCRETE BLOCK OR SLAB AND METHOD OF MAKING THE SAME. FRANK W. SAMPSON, Atlanta, Ga. Filed July 28, 1926. Serial No. 125,567. 3 Claims. (Cl. 94—24.)



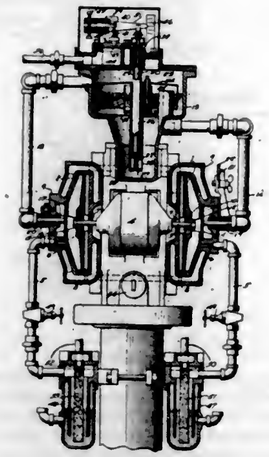
1. The method of making concrete structures which consists in placing a base containing aggregates and an insufficient quantity of mortar to fill the normal voids of the aggregates, vibrating the aggregates of the base whereby the mortar content thereof will be sufficient to fill the voids, placing a surface course containing mortar and aggregates on the base before the latter has set, and vibrating the aggregates of the surface course.

1,682,688. HORSESHOE AND CALK. WILLIAM T. SHEPERDSON, Paxton, Mass.; John William Sheperdson executor of said William T. Sheperdson, deceased. Filed Oct. 28, 1926. Serial No. 144,840. 3 Claims. (Cl. 168—41.)



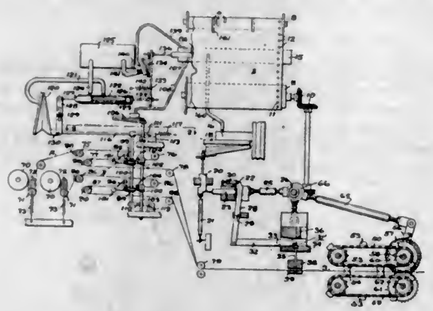
1. As an article of manufacture, a replaceable horseshoe calk having a central longitudinal plain web of substantially uniform thickness, and having transverse triangular end walls connecting the ends of the web to the base for strengthening the web, the surfaces connecting the interior surfaces of the web and end walls all diverging from each other from the center outwardly, whereby the centers of the end walls at their bases are thicker than their edges, and said calk having positive means for preventing it from turning.

1,682,689. APPARATUS FOR REGULATING THE COMPOSITION OF MIXED GASES. CHARLES H. SMOOT, Maplewood, N. J. Filed Feb. 2, 1927. Serial No. 165,397. 14 Claims. (Cl. 236—15.)



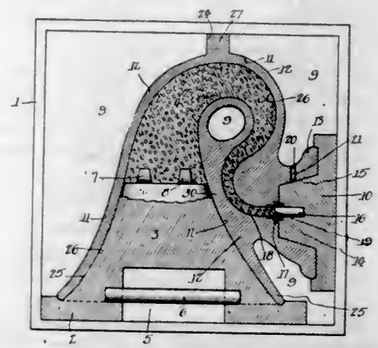
1. In a regulator for controlling the composition of mixed gases, means for producing under like conditions two varying pressures, one affected by the density of the gas whose composition is to be regulated, and one unaffected by such density, and means responsive to both of such pressures for regulating the composition of the gas to maintain a definite relation between said pressures.

1,682,690. METHOD OF MANUFACTURING NOTE SHEETS. CHARLES F. STODDARD, New York, N. Y., assignor to American Piano Company, New York, N. Y., a Corporation of New Jersey. Original application filed Dec. 8, 1914, Serial No. 876,147, Patent No. 1,432,424, dated Oct. 17, 1922. Divided and this application filed July 29, 1921. Serial No. 488,495. 8 Claims. (Cl. 33—18.)



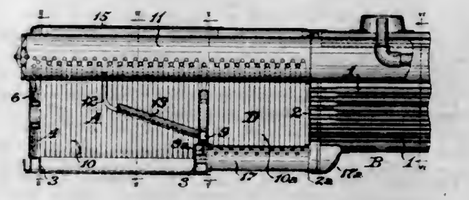
1. The method of making note sheets for musical instruments by marking informative indicia on and making note perforations related thereto in said note sheets which includes moving said note sheet, subjecting said moving note sheet to a marking operation and then, after a predetermined increment of marking has been effected, beginning the making of note perforations at a point properly related to the informative indicia previously marked on said sheet.

1,682,691. CORE FOR CASTING AMPLIFYING HORNS. FRED W. TEMPLE, Cicero, Ill., assignor of one-half to William P. Crockett, Chicago, Ill., and one-fourth to Alfred Marchev, Cicero, Ill. Filed June 1, 1925. Serial No. 33,937. 8 Claims. (Cl. 18—45.)



1. A core for use in casting an amplifying horn for a loud speaker reproducer, which is flexible and composed of sponge rubber.

1,682,692. LOCOMOTIVE BOILER. ALFRED W. BRUCE, New York, N. Y. Filed Feb. 7, 1927. Serial No. 166,391. 8 Claims. (Cl. 122—94.)

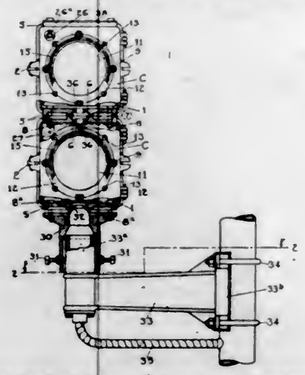


1. In a locomotive boiler, the combination of a barrel; a fire box, comprising a combustion chamber and a fire chamber; a back head, having a rigid outer sheet and closing the rear of the fire chamber; a drum, supported, and fitting freely, in the back head, and extending forwardly therefrom into the barrel; water tubes forming the sides of the fire and combustion chamber; a hollow mud ring, communicating with the water tubes of the fire chamber; a tube sheet secured to the barrel and closing the rear of the steam space thereof; a feed water communication, leading from the barrel to the mud ring and communicating with the combustion chamber water tubes; and a wrapper sheet secured to the barrel and to the fire box, and performing the functions of rigidly connecting said members together, and forming a housing covering the roof of the fire box.

1,682,693. SUPPORT FOR LIGHT SIGNALS. SALISBURY M. DAY, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Original application filed Oct. 17, 1921, Serial No. 508,194. Divided and this application filed Dec. 29, 1924. Serial No. 758,666. 3 Claims. (Cl. 240—52.)

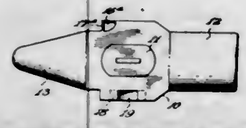
1. An adjustable mounting for light signal casings, comprising, a socket member having an upwardly tapering conical internal surface, a substantially cylindrical perforated support of smaller diameter than the largest internal diameter of said socket member universally adjustable therein,

bolts threaded into the walls of said socket member for clamping said member to said support, a central perforated ball member on the upper surface of said socket member, a



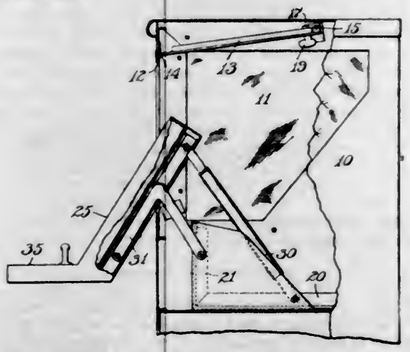
signal casing having a matching perforated socket member, and adjusting and fixing means for, and spaced from, said ball and socket members.

1,682,694. COMBINATION TOOL. THORNTON W. LOSEY, Silver Grove, Ky. Filed May 13, 1927. Serial No. 191,171. 2 Claims. (Cl. 7—9.)



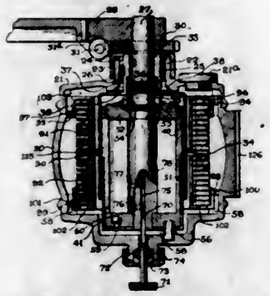
1. A tool comprising an elongated head having a handle projecting therefrom intermediate its ends, and having a side portion bulged and formed at an end of the bulge with an opening which is closed at its outer adjacent sides by thin walls which are angularly disposed.

1,682,695. OPTICIAN'S CABINET. JOSEPH A. MINER, Indianapolis, Ind., assignor to American Metal Furniture Co., Indianapolis, Ind., a Corporation of Indiana. Filed July 5, 1927. Serial No. 203,467. 4 Claims. (Cl. 312—153.)



1. The combination with a cabinet forming a storage chamber having an inwardly and upwardly swinging closure door, of an inclined storage tray mounted in said compartment, and a pair of links pivotally connected to said tray near the upper and lower edges respectively thereof, said links being pivotally connected to a support within the compartment and the forward lower link being V shaped, substantially as described, whereby the tray will be supported, in its retracted position, beyond the arc of movement of the swinging closure and be projectable outwardly and downwardly through the compartment opening.

1,682,696. CLOSING AND RETARDING DEVICE. PORTER S. MORGAN, New York, N. Y., assignor to Morgan, Blodgett, Morgan, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 28, 1924. Serial No. 688,943. 39 Claims. (Cl. 16—58.)



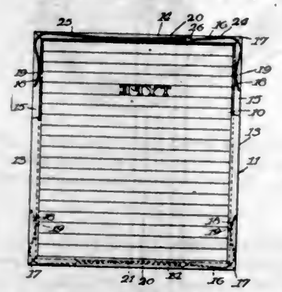
1. A hydraulic door check and closer comprising in combination a casing, a helical door-closing spring; cylindrical spring carriers covering and connected to the ends of the spring and provided with exterior and interior cam lugs; lugs set in the casing to engage the exterior lugs of the spring carriers whereby one of the spring carriers, upon being rotated from a given point in one direction, is moved out of frictional contact with other parts and secured against further such rotation relatively to the casing, and whereby the other spring carrier, upon being rotated from a given point in the opposite direction, is similarly moved out of frictional contact and secured against further rotation; a cylindrical spring driver positioned within the spring and spring carriers and provided with cam lugs to engage the interior cam lugs of the spring carriers whereby upon rotation of the spring driver from a given point in one direction one of the spring carriers is picked up, removed from frictional contact with other parts, and rotated by ann with the spring driver, and whereby upon rotation of the spring driver from a given point in the opposite direction the other spring carrier is so picked up, removed from contact and rotated; hydraulic checking means positioned within the spring driver and comprising a cylinder, a wing piston mounted to oscillate therein and adapted to move freely in one direction but against hydraulic resistance in the opposite direction; and means for operatively interconnecting the spring driver, the checking means, and the door.

1,682,697. CONCRETE WELL STRAINER. THOMAS W. THORPE and GEORGE E. THORPE, Des Moines, Iowa, assignors to Thorpe Brothers Well Company, a Copartnership composed of George E. Thorpe, Walter T. Thorpe, and Thomas W. Thorpe, Des Moines, Iowa. Filed Aug. 18, 1927. Serial No. 213,830. 5 Claims. (Cl. 166—5.)



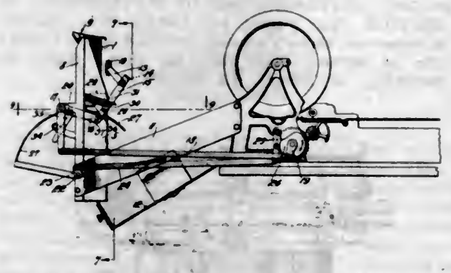
1. A well strainer comprising a tubular concrete wall for forming a support, vertical ribs on the outside of said support, a marginal flange on said support connecting the lower ends of the ribs together, the wall of the support between said ribs having openings therein and strainer sections placed between said ribs and spaced from said wall.

1,682,698. TEMPORARY TYPE-PAGE LOCK. EARLE WILLIAMSON, Chicago, Ill. Filed Mar. 5, 1927. Serial No. 173,019. 9 Claims. (Cl. 101—404.)



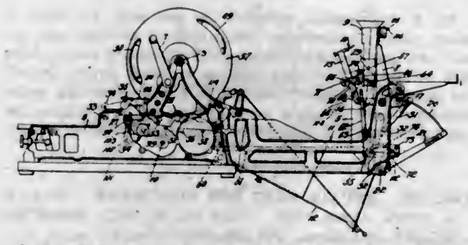
7. A frame for temporarily holding a type page, comprising rigid frame sections at opposite sides of said type page, U-shaped spring clips extending across opposite sides of said type page, and interlocking means for connecting the ends of said clips with said frame sections for holding said type page in assembled relation.

1,682,699. INTERLEAVING DEVICE. ERNEST JOSEPH BRASSEUR, Chicago, Ill., assignor to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 15, 1927. Serial No. 213,163. 16 Claims. (Cl. 34—1.)



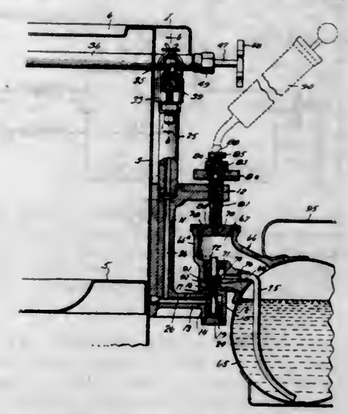
1. A device for inserting separators between successively delivered sheets, comprising means for holding a collection of separators above a table receiving the sheets, means for releasing a separator from the collection to descend on its end to a sheet on the receiving table, and means for exerting force against the descended separator to assist it to a position parallel to the table.

1,682,700. CONTROL MECHANISM FOR INTERLEAVING DUPLICATING MACHINES. ERNEST JOSEPH BRASSEUR, Chicago, Ill., assignor to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 3, 1927. Serial No. 217,312. 16 Claims. (Cl. 34—1.)



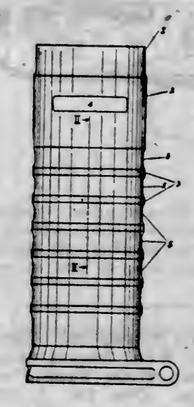
1. A control mechanism for duplicating machines provided with means for delivering sheets successively, means for determining whether a sheet is in position to be fed to the sheet delivery means, means for holding a collection of separators, and means for placing a separator on each delivered sheet, comprising, means operative upon the exhaustion of separators for preventing the operation of the sheet delivery means, and means for preventing the operation of the separator placing means when no sheet is in position to be fed to the sheet delivery means.

1,682,701. LIQUID-FUEL STOVE. LEE S. CHADWICK, Shaker Heights, and MARC RESEK, Cleveland Heights, Ohio, assignors to Perfection Stove Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 19, 1926. Serial No. 149,353. 25 Claims. (Cl. 126—44.)



1. In a liquid fuel stove of the class described, the combination of a fuel conduit leading to the burner, said conduit terminating at its receiving end in a seat that surrounds said end, a fuel reservoir normally requiring detachment from the stove for filling, and having an outlet for application to said seat, means urging the reservoir toward the conduit thereby to effect a fluid tight joint between the outlet of the reservoir and the seat, and means for introducing air under pressure into the reservoir.

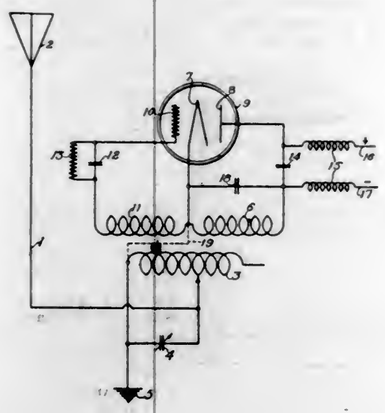
1,682,702. METAL-COATED VALVE SLEEVE AND METHOD OF COATING THE SAME. HENRY J. EDWARDS, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 21, 1925. Serial No. 76,688. 7 Claims. (Cl. 123—75.)



1. In a sleeve for an internal combustion engine, the combination of a metallic body portion, and a metallic

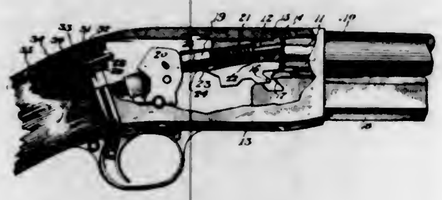
coating thereon composed of a material different from the material of said body portion, said coating being in the form of deposited metal lands.

1,682,703. RADIO APPARATUS. DONALD G. LITTLE, Edgewood, Pa., assignor to Radio Corporation of America, a Corporation of New York. Filed Oct. 8, 1920. Serial No. 415,523. 14 Claims. (Cl. 250—36.)



10. In a radio system, a tunable oscillation circuit, a circuit coupled thereto, said coupled circuit having a tuning device in addition to the coupling, the natural period of said coupled circuit being outside the range of frequencies to which said oscillation circuit is tunable.

1,682,704. FIREARM. CRAWFORD C. LOOMIS, Ilion, N. Y., assignor to Remington Arms Company, Inc., a Corporation of Delaware. Filed Dec. 12, 1925. Serial No. 74,946. 7 Claims. (Cl. 42—25.)



1. In a firearm, in combination a longitudinally movable shell ejector, a movable actuator for said ejector, a fixed stop limiting the movement of said ejector actuator, and a spring interposed between said ejector actuator and said fixed stop.

1,682,705. LIQUID DISPENSER. THOMAS M. MANSON and CHARLES H. WARD, Toronto, Ontario, Canada, assignors to Clear Vision Pump Company, Limited, Toronto, Canada. Filed Feb. 3, 1927. Serial No. 165,598. 13 Claims. (Cl. 221—99.)

9. In a liquid dispenser, the combination with a measuring chamber and an overflow, of means for temporarily closing the overflow entrance, and means connecting the chamber with said overflow and adapted to form therewith



a siphon to withdraw the liquid from the chamber when the overflow entrance is closed.

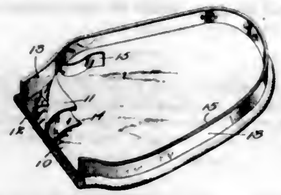
1,682,706. DETERMINATION OF WAVE-ENERGY DIRECTION. MAX MASON, New London, Conn., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed June 25, 1919. Serial No. 306,681½. 40 Claims. (Cl. 181—26.)

37. A compensator adapted for use with receivers of wave energy, comprising two auditory devices, one for each ear, and means for transmitting the wave energy from each receiver to the corresponding auditory device, including separate manually adjustable fluid conducting paths connected with the said auditory devices for bringing the oscillations therein into phase, substantially as described.

1,682,707. REPAIR PART FOR FOOTWEAR. WILLIAM A. OWEN, Akron, Ohio. Filed Jan. 6, 1922. Serial No. 527,337. 5 Claims. (Cl. 36—30.)

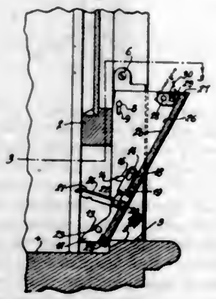
1. A molded article of manufacture comprising a layer of completely vulcanized rubber composition, a layer of

relatively unvulcanized rubber composition having an attaching surface, an intermediate layer of fabric vulcanized



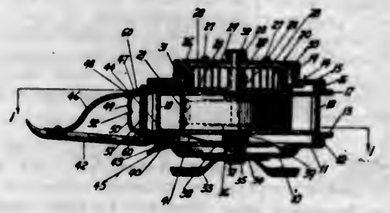
to said layers of rubber composition, and a removable protective covering adhesively secured to the attaching surface of said unvulcanized layer of rubber composition.

1,682,708. AUTOMATIC WINDOW VENTILATOR. VINCENT PETILLI, Bronx, N. Y., assignor to Butler Mfg. Corporation, Brooklyn, N. Y., a Corporation of New York. Filed June 26, 1928. Serial No. 288,439. 5 Claims. (Cl. 98—99.)



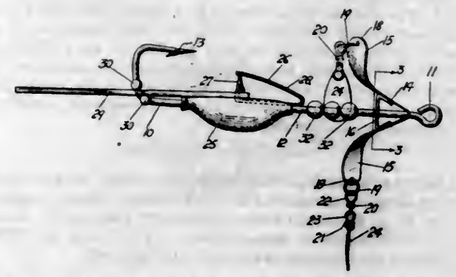
1. A ventilator for windows embodying a pair of vertically movable and swingable end plates, each of which is provided in its upper portion with a substantially upright slot and in its intermediate portion with another slot, studs adapted to be rigidly mounted with respect to a window frame and extends through said slots, an air deflecting element supported at its opposite ends by said end plates and adapted to extend transversely of the window frame, a trigger pivoted to each end plate and adapted to extend into the path of a window sash of said frame when the sash is elevated, and a link pivoted to each trigger and also pivoted to the stud which extends through the intermediate slot of the corresponding end plate.

1,682,709. FISHING REEL. CHARLES T. PFLUEGER, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed June 19, 1924. Serial No. 720,900. 9 Claims. (Cl. 242—84.5.)



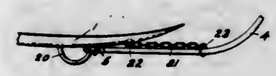
2. In an automatic fishing reek a reel structure, a rotary spool therein, a brake, a brake operating lever attached to the reel structure and extending outwardly therefrom, a latch secured to the lever near the outer extremity thereof and extending toward the reel structure whereby pressure may be applied to the latch to depress the lever, and a keeper on the reel structure with which the free end of the latch is engageable.

1,682,710. SPINNER. CHARLES T. PFLUEGER, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed June 19, 1924. Serial No. 720,902. 6 Claims. (Cl. 43—45.)



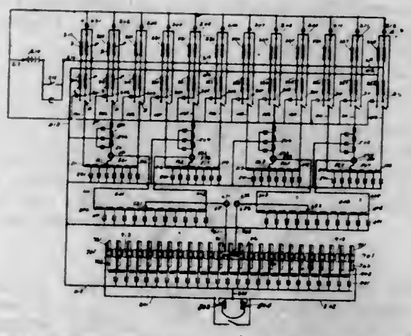
1. A spinner comprising a shank, a main spinner journaled on said shank, said spinner having spaced blades, a brace between the blades having an elongated slot therein through which the shank passes, and secondary spinners swiveled on links connected to said blades.

1,682,711. STRIKER SPOON. CHARLES T. PFLUEGER, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 23, 1926. Serial No. 90,012. 1 Claim. (Cl. 43—45.)



A fish lure comprising a spoon, a spring catch attached to the spoon, a flexible element also attached to the spoon, a ring on the end of the flexible element, and a fish hook, the shank of which is movable through the ring, the hook being provided with an eye adapted to be engaged by the catch when the hook is adjacent the spoon, and adapted to act as a stop to prevent withdrawal of the hook from the ring.

1,682,712. ELECTRIC COMPENSATOR. GEORGE W. PIERCE, Cambridge, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed June 25, 1919. Serial No. 306,689½. 7 Claims. (Cl. 177—386.)



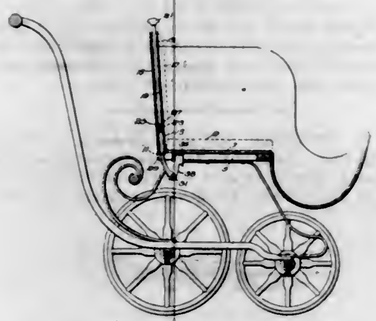
2. An electric compensator comprising a series of retardation branch lines and a retardation line common to all of said branch lines and connected thereto, each of said

lines comprising inductances in series and capacities in shunt and arranged in sections, the ratio of the inductance to the capacity per section of each of the branch lines being n^2 times the corresponding ratio for the sections of the retardation line common to said branch lines as described.

1,682,713. NORMAL-PRESSURE ACID-SLUDGE HYDROLYSIS. ERNEST W. ROTH, Los Angeles, Calif. Filed Apr. 13, 1927. Serial No. 183,594. 5 Claims. (Cl. 23—173.)

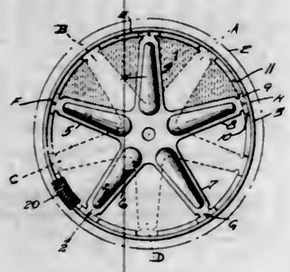
1. The method of separating acid sludge into useful constituents which comprises; heating a supernatant layer of acid sludge by means of heat applied to an underlying layer of dilute acid having a density greater than that of said sludge, said acid being maintained at its simmering temperature during said heating and without material agitation of said sludge layer.

1,682,714. SEAT CONSTRUCTION FOR BABY CARRIAGES. HAROLD F. SHAW, Leominster, Mass., assignor to F. A. Whitney Carriage Company, Leominster, Mass., a Corporation of Massachusetts. Filed July 30, 1926. Serial No. 125,915. 3 Claims. (Cl. 280—47.)



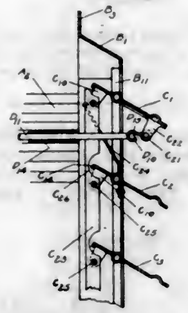
2. In combination with a seat having at the rear edge thereof a back hinged thereto, a spring-controlled rod mounted in and passing vertically through said back and having its upper end projecting therefrom at the top edge for manual reciprocation against said spring substantially in the plane of said back, the lower end also projecting, and a rack-like structure on the bottom of the seat forwardly of the rear edge thereof to cooperate with said lower end whereby said back may be secured in adjusted angular position relative to said seat.

1,682,715. TOY WHEEL. CLIFFORD M. WATROUS, East Hampton, Conn., assignor to Gong Bell Manufacturing Company, East Hampton, Conn., a Corporation of Connecticut. Filed May 8, 1924. Serial No. 711,825. 2 Claims. (Cl. 301—63.)



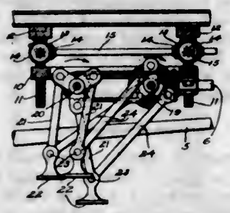
1. A wheel for toys formed from a disk of metal consisting of felloe section having a deformed peripheral edge providing a smooth running section or tread and having interiorly thereof, a comparatively long flange of uniform shape throughout, and a spider like spoke section blanked out of the disc and reunited to the flange the ends of the spokes overlapping the flange at points other than those from which they were blanked out.

1,682,716. CONTROL SHUTTER FOR ENGINE RADIATORS. DANIEL M. WINANS, Binghamton, N. Y., assignor to The Brewer-Titchener Corporation, Cortland, N. Y., a Corporation of New York. Filed Oct. 15, 1925. Serial No. 62,616. 2 Claims. (Cl. 189—62.)



1. A shutter apparatus arranged to control air flow through an engine radiator core, comprising a frame serving to house a plurality of shutter slats adapted to swing between open and closed positions, tie-bar means interconnecting the several slats, slat actuating means including an elongated link pin operatively connected to rock in unison with the slat movements, said actuating means further comprising a reciprocative push rod having one end provided with an intermediary link adapted to pivotally engage and slide lengthwise of said pin, and guide means associated with said radiator core serving to constrain lateral movement on part of the link end of said rod.

1,682,717. TRACTOR ATTACHMENT. ARTHUR CORONA, Brooklyn, N. Y., assignor of one-half to Nathan Hirsch, New York, N. Y. Filed Dec. 4, 1926. Serial No. 152,639. 1 Claim. (Cl. 180—8.)

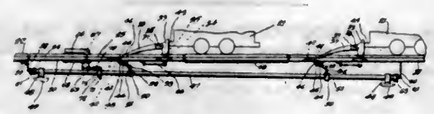


A tractor attachment, including a support, a pair of crank shafts adapted to turn in the same direction, links pivotally connected to the crank arms of one of said shafts, feet pivotally connected to the lower ends of said links, having extended ground-engaging portions, and other links connecting the crank arms of the other shaft, with their feet at the point of pivotal connection with the first-mentioned links.

1,682,718. COMBINATION AUTOMATIC CAR FEEDING AND STOPPING MECHANISM. GLENN W. MERRITT, Bowerston, Ohio. Filed Oct. 18, 1926. Serial No. 142,476. 22 Claims. (Cl. 214—126.)

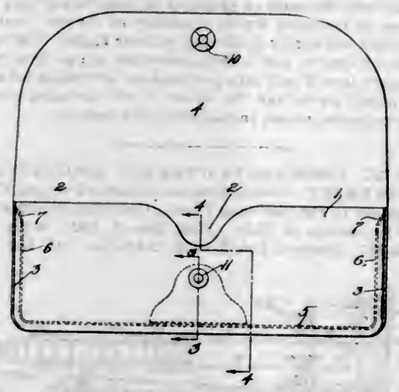
1. In a device of the class described, the combination with a trackway, and cars adapted for movement along said trackway, of a bumper structure disposed between

the rails of the trackway, said bumper structure including a pivotally supported bumper, means for releasably holding said bumper in the path of movement of the cars, means for disengaging said holding means to permit said



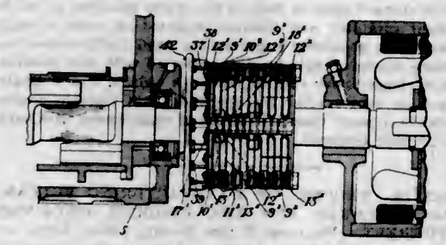
bumper to pivot by movement of the cars from bumping position, and means operable on said bumper structure for resetting the bumper in the path of movement of the cars.

1,682,719. EYEGLASS CASE. CARL G. ALDRICH, Somerville, Mass., assignor to Continental Optical Corporation, New York, N. Y., a Corporation of Delaware. Original application filed May 5, 1926. Serial No. 106,918. Divided and this application filed May 26, 1927. Serial No. 194,474. 5 Claims. (Cl. 206—5.)



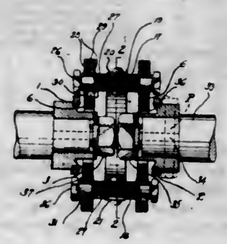
1. A case comprising a leather pouch and a reinforcing bow frame consisting of a strip of sheet metal fitted within said pouch and provided at its side edges with barbs embedded in the walls of the latter whereby said frame holds itself in place within the pouch and supports the walls thereof that are opposite its edges in spaced-apart relationship.

1,682,720. COUPLING. JOSEPH BIJUR, New York, N. Y. Filed Apr. 30, 1919. Serial No. 293,655. 12 Claims. (Cl. 64—96.)



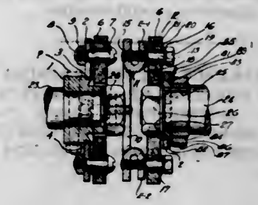
1. In a coupling, in combination, a plurality of coaxial circular spring plates, each said plate having deflections at diametrically opposite parts of its periphery for contact intermediate the said deflections of the succeeding plate, said plates being otherwise spaced from each other, and fasteners one for securing each said deflection to the part of the contiguous plate in contact therewith.

1,682,721. COUPLING AND THE LIKE. JOSEPH BIJUR, New York, N. Y. Filed Oct. 5, 1921. Serial No. 505,593. 20 Claims. (Cl. 64—96.)



1. In a coupling, in combination, a pair of hub members, flexible driving members corresponding one to each hub member and secured thereto near opposite ends of a diameter, a transmission band member between said flexible members and of width materially smaller than the distance between the two flexible members, and inner diameter sufficiently large for convenient access of a wrench to tighten a fastening nut, and lugs extending outwardly from said band and projecting from opposite edges thereof and in line with each other, and securing means fastening said lugs to said flexible members at points midway between the points of connection of the latter to the hub members, said securing means being accessible for application and removal thereof from the end of the coupling.

1,682,722. COUPLING AND THE LIKE. JOSEPH BIJUR, New York, N. Y. Filed Jan. 23, 1922. Serial No. 531,009. 33 Claims. (Cl. 64—96.)

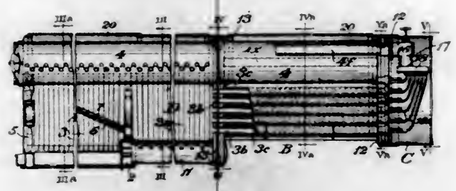


1. In a coupling, in combination, a pair of hub members, flexible driving members connected to said hub members at spaced points substantially equidistant from the axis of the coupling and transmission means connected to said flexible members at spaced points on radii of the coupling intermediate said first connections, the transmission means presenting a central opening for convenient access through said transmission means of a wrench for the purpose of tightening a nut for securing one of the hubs upon a shaft while the transmission means remains in place upon said hub.

1,682,723. LOCOMOTIVE BOILER. ALFRED W. BRUCE, New York, N. Y. Filed Jan. 27, 1927. Serial No. 164,030. 8 Claims. (Cl. 122—94.)

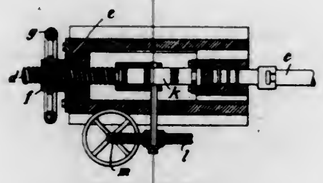
1. In a boiler of the locomotive type, the combination of a fire box, the sides of which are formed of water tubes; a barrel, extending forwardly from the forward

end of the firebox; forward and rear barrel section headers; a drum, extending forwardly from the rear end of the fire box and communicating with the side water tubes thereof and with the forward header; water tubes, con-



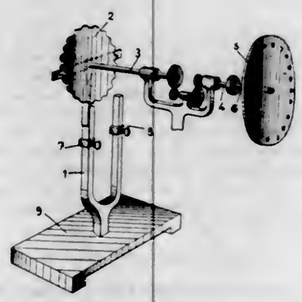
necting the water spaces of the headers; fire tubes, extending through said water tubes and through the headers, and providing water spaces between themselves and said water tubes; and means for supplying water from the barrel to the side water tubes of the fire-box.

1,682,724. TUBE EXPANDER. RUDOLF BUNGEROTH, Dusseldorf, Germany. Filed July 23, 1927, Serial No. 208,013, and in Germany Dec. 29, 1925. 3 Claims. (Cl. 80—13.)



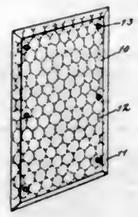
1. In apparatus for expanding metal tubes, a mandrel shaft located at the inlet side of the apparatus, and a mandrel carried by said shaft, in combination with means for giving rough adjustment to said mandrel and other means for giving fine adjustment to said mandrel.

1,682,725. APPARATUS FOR DETERMINING THE FREQUENCY OF ROTATION OR OSCILLATION OF MOVING PARTS. AMÉDÉE VICTOR JOSEPH GUILLET and ALEXANDRE BERTRAND, Paris, France. Filed Dec. 4, 1925, Serial No. 73,286, and in France Dec. 10, 1924. 6 Claims. (Cl. 88—14.)



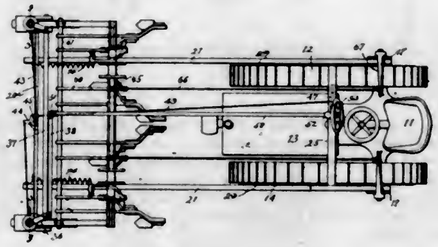
1. An apparatus for determining the frequency of rotation or oscillation of a moving part, comprising in combination, an electrically sustained tuning fork, an escapement anchor device carried thereby, rotary means adapted to revolve around an axis perpendicular to the plane of the tuning fork and actuated by said escapement anchor device, and a stroboscopic member actuated by said rotary means.

1,682,726. REENFORCED-CONCRETE SLAB. BERNARD C. HARLOFF, Richmond Hill, N. Y. Filed Oct. 15, 1927. Serial No. 226,392. 1 Claim. (Cl. 72—68.)



A reenforced concrete slab of the class described comprising a body, beveled outer edges formed with said body, a reenforcing screen between the sides of said body embedded into the same, a plurality of sockets allowing the passage of fastening screws embedded in the slab near its side edges, outwardly projecting annular flanges formed on the upper edge of said sockets embedded in and flush with the upper face of said slab and washers interposed between said mouth pieces and the heads of the fastening screws the reenforcing screen surrounding said sockets.

1,682,727. COMBINED TRACTOR AND AGRICULTURAL IMPLEMENT. GEORGE DOUGLAS JONES, Cleveland, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed Mar. 5, 1921, Serial No. 449,787. Renewed Feb. 2, 1926. 5 Claims. (Cl. 180—1.)



1. The combination of a tractor; an implement carrying frame operatively connected to said tractor and having a pair of supporting casters rotatably connected by spindles therewith; and mechanism for controlling the movement of said casters for steering, said mechanism comprising a clutch element fixed to each of the caster spindles, a clutch element rotatably and slidably mounted on each of said spindles for positively engaging the fixed clutch elements, a single means on said tractor connected with said slidable clutch elements for rotating them in unison, and a single means on said tractor for operating said slidable clutch elements to move them into or out of engagement with said fixed clutch elements.

1,682,728. PROCESS OF MANUFACTURING VULCANIZED RUBBER AND THE PRODUCT OBTAINED THEREBY. WILLIAM P. TER HORST, Akron, Ohio, assignor to The Rubber Service Laboratories Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 4, 1927. Serial No. 210,712. 30 Claims. (Cl. 18—53.)

1. The process of manufacturing vulcanized rubber which comprises combining with rubber a vulcanizing agent in the

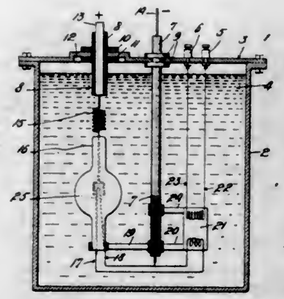
presence of a small proportion of an accelerating compound formed by combining the carbon disulphide derivative of an amine with the reaction product of a mercapto-thiazole compound upon a chlorine derivative of carbon disulphide.

1,682,729. VULCANIZED RUBBER PRODUCT AND METHOD OF PRODUCING SAME. WILLIAM P. TER HORST, Akron, Ohio, assignor to The Rubber Service Laboratories Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 4, 1927. Serial No. 210,713. 21 Claims. (Cl. 18—53.)

1. The process of manufacturing vulcanized rubber which comprises combining with rubber a vulcanizing agent in the presence of a small proportion of an accelerating compound formed by combining an organic derivative of ammonia with a product obtained by reacting a mercaptothiazole compound with a chlorine derivative of carbon disulphide.

1,682,730. HIGH-TENSION ELECTRIC VALVE. HARRY F. WAITE, New York, N. Y. Filed June 4, 1927. Serial No. 196,459. 1 Claim. (Cl. 250—27.5.)

In a high tension system, a tank containing insulating oil, a cover to which is attached suitable high tension insulators, a hot cathode valve connected to both of said insulators and supported by one of them, a step down filament transformer supported by one of said insulators and connected to the hot cathode valve and connections through the cover for supplying said transformer with power, whereby the said



elements, except the oil tank and cover, are connected to the cover and supported thereby and may be inserted or removed as a unit by positioning or removing the cover.

Aug 7, 1928

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Acoma Textile Mills, Brooklyn, N. Y. Neckties. 245,294; Aug. 7; Serial No. 242,807; published Apr. 24, 1928. Class 39.

Adams, Jane W. (See Carlova, Inc.)

Agnew, Petrille K., doing business as Agnew Company, Not Inc., Chicago, Ill. French dressing. 245,337; Aug. 7. Class 46.

Ajax Rubber Company, Inc., Racine, Wis. Automobile tires. 245,027; Aug. 7; Serial No. 264,219; published May 29, 1928. Class 35.

Alan Specialty Company. (See Rosborough, Allan A.)

Albright, Andrew, jr., Newark, N. J. Golf balls. 245,332; Aug. 7. Class 22.

Amalgamated Paint Company, New York, N. Y. Flat wall paints, varnishes, and paint enamels. 245,325; Aug. 7. Class 16.

Amalgamated Paint Company, New York, N. Y. Paints, varnishes, etc. 245,329; Aug. 7. Class 16.

American Foundry & Furnace Company, Bloomington, Ill. Coal, oil, etc., warm-air heating furnaces. 245,339; Aug. 7. Class 34.

American Sales Book Company, Limited, Toronto, Ontario, Canada, and Niagara Falls, N. Y. Paper sheets, strips, rolls, pads, etc. 245,256; Aug. 7; Serial No. 214,454; published May 29, 1928. Class 37.

Anderson, T. E., Lindsay, Calif. Fresh grapes and fresh citrus fruits. 245,266; Aug. 7; Serial No. 264,939; published May 29, 1928. Class 46.

Arcey Company Inc., New York, N. Y. Hosiery. 245,107; Aug. 7; Serial No. 261,783; published Apr. 10, 1928. Class 39.

Arnold Bros., Chicago, Ill. Mincemeat. 245,312; Aug. 7. Class 46.

Artcraft Silk Hosiery Mills, Inc., Philadelphia, Pa. Hosiery. 245,043; Aug. 7; Serial No. 258,395; published Apr. 10, 1928. Class 39.

Bachrodt & Company, San Jose, Calif. Pulverized animal manure. 245,182; Aug. 7; Serial No. 261,162; published May 29, 1928. Class 10.

Baker, Charles H., San Francisco, Calif. Boots and shoes. 245,343; Aug. 7. Class 39.

Bear Brand Hosiery Co., Chicago, Ill. Ladies' woolen hosiery. 245,145; Aug. 7; Serial No. 255,219; published May 1, 1928. Class 39.

Belth, R., Co. Inc., New York, N. Y. Ladies' hats and hat linings. 245,252; Aug. 7; Serial No. 252,185; published Apr. 24, 1928. Class 39.

Benjamin, E. V., Company, Inc., The, doing business as Maginnis Cotton Mills, New Orleans, La. Shirts, overalls, jackets, pants, etc. 245,052; Aug. 7; Serial No. 260,549; published Apr. 17, 1928. Class 39.

Beta Pi Theta Fraternity, Hartsville, S. C. Quarterly publication. 245,098; Aug. 7; Serial No. 263,635; published May 15, 1928. Class 38.

Bijou Dress Co., The, New York, N. Y. Ladies' dresses. 245,240; Aug. 7; Serial No. 261,417; published Apr. 24, 1928. Class 39.

Binghamton Shoe & Rubber Co., Binghamton, N. Y. Rubber and leather boots and shoes. 245,250; Aug. 7; Serial No. 254,069; published May 1, 1928. Class 39.

Birmingham Paper Co., Birmingham, Ala. Tablets and writing paper. 245,303; Aug. 7; Serial No. 264,554; published May 29, 1928. Class 37.

Black Duck Products, Inc., Whittier, Calif. Auto top dressing containing varnish. 245,253; Aug. 7; Serial No. 251,296; published May 29, 1928. Class 4.

Boehland, Paul, doing business as Paul Boehland & Co., Milwaukee, Wis. Christmas-tree ornaments. 245,195; Aug. 7; Serial No. 262,505; published May 29, 1928. Class 22.

Boos, Henry P., Minneapolis, Minn. Bridge teeth, hygienic bridges, gold crowns, etc. 245,324; Aug. 7. Class 44.

Borden Company, The, New York, N. Y. Condensed milk. 245,223; Aug. 7; Serial No. 260,079; published May 28, 1928. Class 46.

Borgfeldt, Geo., & Co., New York, N. Y. Phonographs. 245,126; Aug. 7; Serial No. 263,637; published May 29, 1928. Class 36.

Breslin Brothers Carpet Company, Gloucester City, N. J. Textile rugs. 245,299; Aug. 7; Serial No. 265,089; published May 29, 1928. Class 42.

Bretty & Beckher, Inc., New York, N. Y. Electric hair driers, vibrators, and massage apparatus, etc. 245,259; Aug. 7. Class 44.

Brooks, Burleigh, New York, N. Y. Camera tripods. 245,030; Aug. 7; Serial No. 264,072; published May 29, 1928. Class 26.

Brookside Fruit Co., Stockton, Calif. Fresh grapes, pears, cherries, peaches. 245,317; Aug. 7. Class 46.

Brown Beverages Corporation, Wilmington, Del. Ginger ale. 245,260; Aug. 7; Serial No. 265,091; published May 29, 1928. Class 45.

Bullock's Inc., Los Angeles, Calif. Boys' and girls' coats, hats, dresses, suits, creepers, etc. 245,168; Aug. 7; Serial No. 259,617; published May 1, 1928. Class 39.

Bussa Company, The, Minneapolis, Minn. Printed books. 245,338; Aug. 7. Class 38.

California Vegetable Products Co., Los Angeles, Calif. Dehydrated vegetables. 245,222; Aug. 7; Serial No. 260,162; published May 29, 1928. Class 46.

Cameron, William J., doing business as Cameron's Surgical Specialty Co. (Not Inc.), Chicago, Ill. Electric lamps. 245,059; Aug. 7; Serial No. 259,393; published May 29, 1928. Class 44.

Carlova, Inc., doing business as Jane Wilson Adams, New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 245,029; Aug. 7; Serial No. 264,080; published May 29, 1928. Class 6.

Carroll, John C., London, England. Oil paints, metal paints, etc. 45,057; Aug. 7; Serial No. 260,318; published May 29, 1928. Class 16.

Case, A. H., and Co., Inc., Buffalo, N. Y. Fertilizers. 245,273; Aug. 7; Serial No. 262,553; published May 29, 1928. Class 10.

Cedar Grove Shoe Mfg. Co., Cedar Grove, Wis. Shoes. 245,058; Aug. 7; Serial No. 260,083; published Apr. 17, 1928. Class 39.

Central California Producers, Oakland, Calif. Oranges, lemons, and grapefruit. 245,246; Aug. 7; Serial No. 230,525; published May 29, 1928. Class 46.

Ceskoslovenska Zbrojovka Akciova Spolecnost v. Brne, Brunn, Czechoslovakia. Rifles, machine guns, and pistols. 245,178; Aug. 7; Serial No. 261,420; published May 29, 1928. Class 9.

Chic Manufacturing Co., Peoria, Ill. Ladies' aprons and house frocks. 245,153; Aug. 7; Serial No. 260,490; published Apr. 24, 1928. Class 39.

Clark Manufacturing Company, The, Philadelphia, Pa. Hose nozzles and lawn sprinklers. 245,302; Aug. 7; Serial No. 264,563; published May 29, 1928. Class 13.

Clayton & Young, Fort Wayne, Ind. Deodorant and foot preparations. 245,189; Aug. 7; Serial No. 262,700; published May 29, 1928. Class 6.

Cleveland Metal Bed Co., The, Cleveland, Ohio. Bed Springs. 245,022–5; Aug. 7; Serial No. 264,352–5; published May 29, 1928. Class 32.

Coffee Blenders' Shoppe. (See Lamme, Edgar H.)

Cohn-Hall-Marx Co., New York, N. Y. Textile fabrics. 245,109; Aug. 7; Serial No. 263,690; published May 29, 1928. Class 42.

Collapso Camp Bed Co., Inc., doing business as The Normalizer Co., Wilmington, Calif. Electrically-operated flesh-vibrating machine. 245,133; Aug. 7; Serial No. 262,898; published May 29, 1928. Class 44.

Colonial Grape Products Co. of California, San Francisco, Calif. Sherry-wine seasoning sauce, etc. 245,148; Aug. 7; Serial No. 260,802; published May 29, 1928. Class 46.

Columbia Phonograph Company, Inc., Bridgeport, Conn. Radio receiving, detecting, and transmitting sets and parts thereof, crystal receiving sets, etc. 245,345; Aug. 7; Class 21.

Columbian Enameling & Stamping Co., Terre Haute, Ind. Bedpans. 245,125; Aug. 7; Serial No. 263,692; published May 29, 1928. Class 44.

Cook, Edwin D., Chateaugay, N. Y. Preparation for destroying lice. 245,114; Aug. 7; Serial No. 264,017; published May 29, 1928. Class 6.

Cooper Corporation, The, Cincinnati, Ohio. Automobile tires and tubes. 245,018; Aug. 7; Serial No. 264,811; published May 29, 1928. Class 35.

Cowan, William W., Manchester, N. H. Periodical magazine. 245,310; Aug. 7; Serial No. 263,927; published May 15, 1928. Class 38.

Cowle & Company, Limited, New York, N. Y. Cigarettes. 245,207; Aug. 7; Serial No. 261,355; published May 29, 1928. Class 17.

Cowles Detergent Co., The, Cleveland, Ohio. Soluble chemical compounds. 245,154; Aug. 7; Serial No. 260,376; published May 29, 1928. Class 4.

Cowles Detergent Company, The, Cleveland, Ohio. Soluble chemical compounds. 245,244; Aug. 7; Serial No. 261,045; published May 29, 1928. Class 4.

Crofut & Knapp Co., The, South Norwalk, Conn. Caps and hats. 245,170; Aug. 7; Serial No. 261,702; published Apr. 10, 1928. Class 39.

Cunningham Drug Stores, Inc., Detroit, Mich. Golf balls. 245,331; Aug. 7. Class 22.

Davis & Lowe Company, Newark, N. J. Watches and watchcases. 245,120; Aug. 7; Serial No. 263,813; published May 29, 1928. Class 27.

Delbon, Frank G., Brooklyn, N. Y. Leather shanks and combined leather shanks of leather and metal for use in shoes. 245,042; Aug. 7; Serial No. 258,624; published Apr. 17, 1928. Class 39.

Delicatessen Publishing Company. (See Pennamacoor, Agnes.)

De Luxe Reproducing Roll Corporation, New York, N. Y. Publication. 245,217; Aug. 7; Serial No. 235,123; published May 22, 1928. Class 38.

Dessauer & Engel Company, Chicago, Ill. Sweaters and sweater coats. 245,147; Aug. 7; Serial No. 260,813; published Apr. 24, 1928. Class 39.

Detroit Oak Belting Company, Detroit, Mich. Leather belting. 245,269; Aug. 7; Serial No. 264,873; published May 29, 1928. Class 35.

Dexdale Hosiery Mills, Lansdale, Pa. Hosiery. 245,169; Aug. 7; Serial No. 261,705; published Apr. 10, 1928. Class 39.

Douglas, Dorothy, Denver, Colo. Ladies' fur scarfs, dresses, etc. 245,152; Aug. 7; Serial No. 260,494; published May 1, 1928. Class 39.

Drew & Zabriskie, Ridgewood, N. J. Liquid polish. 245,051; Aug. 7; Serial No. 260,559; published May 29, 1928. Class 16.

East Coast Preserving Company, Jacksonville, Fla. Canned fruit and jellies. 245,124; Aug. 7; Serial No. 263,698; published May 29, 1928. Class 46.

Edson Keith-Chicago Mercantile Company, Chicago, Ill. Ladies' hats. 245,079; Aug. 7; Serial No. 256,720; published Apr. 17, 1928. Class 39.

Elbaum, Herbert, doing business as The Jewish Humorist Company, New York, N. Y. Periodical. 245,093; Aug. 7; Serial No. 263,380; published May 22, 1928. Class 38.

Ellison Furniture & Carpet Co., Fort Worth, Tex. Mattresses, springs, cushions, etc. 245,071; Aug. 7; Serial No. 255,499; published May 29, 1928. Class 32.

Ely & Walker Dry Goods Company, St. Louis, Mo. Sweaters and bathing suits. 245,258; Aug. 7; Serial No. 170,811; published Apr. 17, 1928. Class 39.

Empire Silk Company, New York, N. Y. Silk piece goods. 245,300; Aug. 7; Serial No. 264,814; published May 29, 1928. Class 42.

Endicott Johnson Corporation, Endicott, N. Y. Tennis and athletic shoes. 245,177; Aug. 7; Serial No. 261,427; published Apr. 10, 1928. Class 39.

Engel, Jos., Co., New York, N. Y. Ladies' coats, suits, and dresses. 245,180; Aug. 7; Serial No. 261,308; published Apr. 10, 1928. Class 39.

Enid Poultry & Egg Company, Inc., Enid, Okla. Dressed poultry. 245,028; Aug. 7; Serial No. 264,158; published May 29, 1928. Class 46.

Essex Rubber Company Inc., Trenton, N. J. Insoles, composition soles, rubber soles, and heels. 245,140; Aug. 7; Serial No. 257,154; published May 1, 1928. Class 39.

Etchison Hat Co., Inc., Richmond, Va. Hats and caps. 245,135; Aug. 7; Serial No. 258,859; published May 1, 1928. Class 39.

Eugene, Ltd., New York, N. Y. Permanent-waving machines and parts and accessories. 245,123; Aug. 7; Serial No. 263,757; published May 29, 1928. Class 44.

Everitt & Graf, Inc., Milwaukee, Wis. Ladies' hats. 245,316; Aug. 7. Class 39.

Falcone & Dewing, Inc., Hartford, Conn. Arch supporters. 245,066; Aug. 7; Serial No. 256,865; published May 29, 1928. Class 44.

Fashion Park Incorporated, Rochester, N. Y. Men's coats, vests, pants, and overcoats. 245,056; Aug. 7; Serial No. 260,439; published Apr. 10, 1928. Class 39.

Feibleman, L., & Co., Inc., New Orleans, La. Men's and boys' pajamas, nightshirts, and nightgowns. 245,138; Aug. 7; Serial No. 258,172; published May 1, 1928. Class 39.

Feigel, M., & Bro., Inc., New York, N. Y. Sizing. 245,313; Aug. 7. Class 6.

Feigelman, Herman A., doing business as Multi Products Company, Paterson, N. J. Desk stand. 245,049; Aug. 7; Serial No. 260,884; published May 15, 1928. Class 37.

Field Glove Company, Bloomington, Ind. Gloves. 245,083; Aug. 7; Serial No. 255,650; published Apr. 17, 1928. Class 39.

Fifth Avenue Modes Inc., New York, N. Y. Dresses. 245,094; Aug. 7; Serial No. 261,707; published Apr. 10, 1928. Class 39.

Fisher, Irving, doing business as Index Number Institute, New Haven, Conn. Charts for weekly publication. 245,309; Aug. 7; Serial No. 263,939; published May 15, 1928. Class 38.

Fitler, Edwin H., Company, The, Philadelphia, Pa. Manila rope and cable. 245,091; Aug. 7; Serial No. 263,544; published May 22, 1928. Class 7.

Flash Laboratories, Inc., doing business as The Semaphore Company, Chicago, Ill. Waterproof brake liquid and belt-gripper liquid. 245,141; Aug. 7; Serial No. 256,815; published May 15, 1928. Class 4.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 245,298; Aug. 7; Serial No. 265,151; published May 29, 1928. Class 42.

Fort Howard Paper Company, Green Bay, Wis. Toilet paper, crepe paper, paper napkins, and paper tablecloths. 245,101; Aug. 7; Serial No. 263,208; published May 15, 1928. Class 37.

Frank & Cohen Silk Corp., New York, N. Y. Printed and unprinted natural and artificial silks, flat crepes, etc. 245,184; Aug. 7; Serial No. 261,103; published May 29, 1928. Class 42.

Frank Tea & Spice Co., The, Cincinnati, Ohio. Prepared mustard. 245,248; Aug. 7; Serial No. 254,906; published May 29, 1928. Class 46.

Fraternal Order of Orioles, Buffalo, N. Y. Monthly publication. 245,100; Aug. 7; Serial No. 263,598; published May 15, 1928. Class 38.

Fraternity of Phi Gamma Delta, Washington, D. C. Periodical publications. 245,111; Aug. 7; Serial No. 263,818; published May 22, 1928. Class 38.

Freedman, Jack & Jules, New York, N. Y. Coats and suits for women. 245,221; Aug. 7; Serial No. 260,327; published May 1, 1928. Class 39.

French Shoppe, The. (See Steele, James O.)

Freuch, Shriner & Urner, Boston, Mass. Boots and shoes. 245,174; Aug. 7; Serial No. 261,562; published Apr. 10, 1928. Class 39.

Friedman, Robert P., doing business as The Hoosier Grocery, Indianapolis, Ind. Malt syrup. 245,160; Aug. 7; Serial No. 264,161; published May 29, 1928. Class 46.

Fuller, W. P., & Co., San Francisco, Calif. Mirrors. 245,261; Aug. 7; Serial No. 265,041; published May 29, 1928. Class 32.

Garey, Dorothy A., doing business as Lighting Specialties Co., Brooklyn, N. Y. Electric flood and spot lights. 245,282; Aug. 7; Serial No. 244,228; published Aug. 2, 1927. Class 21.

Garvan, Francis P., New York, N. Y. Periodicals. 245,097; Aug. 7; Serial No. 263,650; published May 29, 1928. Class 38.

General Motors Corporation, Detroit, Mich. Automobiles and motor-driven trucks and constructive parts thereof. 245,099; Aug. 7; Serial No. 263,601; published May 29, 1928. Class 19.

Ger Company, The, New York, N. Y. Men's clothing. 245,175; Aug. 7; Serial No. 261,504; published Apr. 17, 1928. Class 39.

Gillman, Cora M., Youngstown, Ohio. Shaving cream. 245,230; Aug. 7; Serial No. 262,604; published May 15, 1928. Class 4.

Gladys Cloak & Suit Co., Inc., New York, N. Y. Coats, cloaks, suits, etc. 245,181; Aug. 7; Serial No. 261,253; published Apr. 10, 1928. Class 39.

Glaze, Balaam & Moye, Exeter, Calif. Fresh grapes, peaches, and plums. 245,344; Aug. 7. Class 46.

Glickman, Abraham E., Brooklyn, N. Y. Perfumes, toilet waters, facial creams, and skin lotions. 245,089; Aug. 7; Serial No. 250,122; published Aug. 9, 1927. Class 6.

Gold Plate Sauce Company. (See Kapesizis, Zafiris D.)

Golden Rod Hat Co., New York, N. Y. Men's hats. 245,139; Aug. 7; Serial No. 257,231; published Apr. 24, 1928. Class 39.

Goldman, Sigmund L., doing business as Triumph Manufacturing Company, Chicago, Ill. Radium-treated container. 245,132; Aug. 7; Serial No. 262,999; published May 29, 1928. Class 44.

Gordon Vaughan Corporation, Dallas, Tex. Athletic clothing. 245,243; Aug. 7; Serial No. 261,084; published May 1, 1928. Class 39.

Gorse, Frank W., Co., Needham, Mass. Knitted elastic webbing. 245,296; Aug. 7; Serial No. 265,378; published May 29, 1928. Class 42.

Graff Company, Inc., The, New York, N. Y. Men's suits. 245,048; Aug. 7; Serial No. 260,942; published Apr. 17, 1928. Class 39.

Gross, Ilona K., doing business as Ilona Mfg. Co., San Francisco, Calif. Hats, coats, suits, etc. 245,046; Aug. 7; Serial No. 257,408; published Apr. 17, 1928. Class 39.

Gunther's, C. G., Sons, New York, N. Y. Garments and wearing apparel manufactured in whole or in part from furs. 245,142–3; Aug. 7; Serial Nos. 256,461–2; published Apr. 24, 1928. Class 39.

Gunther's, C. G., Sons, New York, N. Y. Garments and wearing apparel manufactured in whole or in part from furs. 245,144; Aug. 7; Serial No. 255,658; published Apr. 24, 1928. Class 39.

Gutman, Julius, & Co., Inc., Baltimore, Md. Shoes. 245,320; Aug. 7. Class 39.

Haan, R. M., Candy Co., Inc., New York, N. Y. Chocolates and bonbons. 245,127; Aug. 7; Serial No. 263,549; published May 29, 1928. Class 46.

Hanes Hosiery Mills Company, Winston-Salem, N. C. Hosiery. 245,095; Aug. 7; Serial No. 261,710; published Apr. 10, 1928. Class 39.

Hanover Knitting Mills of America. (See Peterzell, Harry L.)

Harris, Mark, New Rochelle, N. Y. Artificial Christmas trees. 245,198; Aug. 7; Serial No. 262,358; published May 22, 1928. Class 22.

Hartman Furniture and Carpet Co., Chicago, Ill. Upholstered and bedroom, etc., furniture. 245,020; Aug. 7; Serial No. 264,579; published May 29, 1928. Class 32.

Healy, Daniel J., doing business as D. J. Healy Shops, Detroit, Mich. Ladies' dresses. 245,323; Aug. 7. Class 39.

Helsingborgs Gummifabriks Aktiebolag, Helsingborg, Sweden. Galoshes, snow boots, bootees, etc. 245,291; Aug. 7; Serial No. 245,011; published May 1, 1928. Class 39.

Hercules Powder Company, Wilmington, Del. Dynamite. 245,305; Aug. 7; Serial No. 264,305; published May 29, 1928. Class 9.

Hickey-Freeman Co., Rochester, N. Y. Men's topcoats and suits. 245,235; Aug. 7; Serial No. 262,027; published Apr. 24, 1928. Class 39.

Hickey-Freeman Co., Rochester, N. Y. Men's overcoats. 245,236; Aug. 7; Serial No. 262,026; published Apr. 24, 1928. Class 39.

Hillside Packing Association, Lindsay, Calif. Fresh oranges. 245,265; Aug. 7; Serial No. 264,985; published May 29, 1928. Class 46.

Hixble & Co, Inc., New York, N. Y. Hats, caps, suits, coats, neckties, etc. 245,038; Aug. 7; Serial No. 295,556; published Apr. 17, 1928. Class 39.

Hollander Bros. Drug Co., Rankin, Pa. Deodorant. 245,088; Aug. 7; Serial No. 251,138; published Aug. 16, 1927. Class 6.

Holmes & Holmes, Dilworth, Okla. Preparation for use in treatment of coughs, colds, regulating bowels, etc. 245,016; Aug. 7; Serial No. 264,986; published May 29, 1928. Class 6.

Hood Rubber Company, Watertown, Mass. Rubber heels. 245,173; Aug. 7; Serial No. 261,572; published Apr. 10, 1928. Class 39.

Hoosier Grocery, The. (See Friedman, Robert P.)

House, Edwin H., doing business as House's Cherry Fruit Farm, Saugatuck, Mich. Beverages. 245,319; Aug. 7. Class 45.

Hubbard & McClary, Windsor, Vt. Machines for setting glaziers' points. 245,035; Aug. 7; Serial No. 264,030; published May 29, 1928. Class 23.

Hubley Manufacturing Company, The, Lancaster, Pa. Toys. 245,341; Aug. 7. Class 22.

Hugo, Morris, doing business as Portland Copper Works, Portland, Me. Copper range boilers. 245,179; Aug. 7; Serial No. 261,318; published May 29, 1928. Class 34.

Hunter, H. B., Company, Inc., Norfolk, Va. Compounds of cocoa, sugar, and flavorings. 245,078; Aug. 7; Serial No. 254,549; published May 22, 1928. Class 46.

Iceless Cooler Corporation, Chicago, Ill. Ice-cream cabinets. 245,228; Aug. 7; Serial No. 262,962; published May 29, 1928. Class 31.

Ideal Shoe Mfg. Co., Milwaukee, Wis. Shoes. 245,212; Aug. 7; Serial No. 236,039; published Apr. 17, 1928. Class 39.

Ilona Mfg. Co. (See Gross, Ilona K.)

Ilson, Edward L., Brooklyn, N. Y. Hats, coats, suits, dresses. 245,082; Aug. 7; Serial No. 256,190; published Apr. 10, 1928. Class 39.

Independent Paper Mills, Inc., Plattsburg and New York, N. Y. Paper napkins. 245,176; Aug. 7; Serial No. 261,440; published May 29, 1928. Class 37.

International Projector Corporation, New York, N. Y. Motion-picture-projection machines. 245,322; Aug. 7. Class 21.

Interwoven Stocking Company, New Brunswick, N. J. Hosiery. 245,085; Aug. 7; Serial No. 253,025; published Oct. 25, 1927. Class 39.

Investment Advertising Company, Chicago, Ill. Publication. 245,036; Aug. 7; Serial No. 259,805; published May 29, 1928. Class 38.

Ipswich Mills, Boston, Mass. Women's knitted and woven underwear. 245,293; Aug. 7; Serial No. 244,500; published Apr. 24, 1928. Class 39.

Iris Knitting Corporation, Pottstown, Pa. Women's knitted underwear. 245,251; Aug. 7; Serial No. 253,806; published May 1, 1928. Class 39.

Italian Cigar and Tobacco Co. Incorporated, The, Brooklyn, N. Y. Cigars. 245,197; Aug. 7; Serial No. 262,362; published May 29, 1928. Class 17.

Izod, A. J., Limited, London, England. Outer vests and shirts. 245,045; Aug. 7; Serial No. 257,582; published Apr. 17, 1928. Class 39.

Jacobi, Frank E., doing business as St. Louis Veterinary Laboratories, St. Louis, Mo. Insecticides. 245,194; Aug. 7; Serial No. 262,578; published May 29, 1928. Class 6.

Jain-Sol Clothing Co., assignor to Jain Sol Clothing Co., Inc., New York, N. Y. Clothing. 245,257; Aug. 7; Serial No. 211,935; published June 16, 1925. Class 39.

James Manufacturing Company, Fort Atkinson, Wis. Heat-tempering attachment for poultry-house stoves. 245,067; Aug. 7; Serial No. 256,194; published May 29, 1928. Class 34.

Jewish Humorist Company, The. (See Elbaum, Herbert.)

Johnston Dry Goods Co., Birmingham, Ala. Overalls, coveralls, work shirts, and pants. 245,276; Aug. 7; Serial No. 262,403; published Apr. 17, 1928. Class 39.

Jordan Tobacco Company, The, Washington, D. C. Cigars and cigarettes. 245,026; Aug. 7; Serial No. 264,236; published May 29, 1928. Class 17.

Juliet Products Co. (See Silbar, Allen.)

Kahler Shoe Co. Inc., The, New York, N. Y. Hosiery. 245,211; Aug. 7; Serial No. 239,036; published Apr. 17, 1928. Class 39.

Kalry, Abraham, doing business as A. Kalry, New York, N. Y. Astringents, astringent cerates, etc. 245,264; Aug. 7; Serial No. 264,991; published May 29, 1928. Class 6.

Kallish, Louis, New York, N. Y. Dresses. 245,054; Aug. 7; Serial No. 260,504; published Apr. 10, 1928. Class 39.

Kamerzink, Charles B., Hollywood, Tenn. Table game played with pieces. 245,063; Aug. 7; Serial No. 258,816; published May 22, 1928. Class 22.

Kansas City Paper House, Kansas City, Mo. Book paper. 245,270; Aug. 7; Serial No. 262,965; published May 15, 1928. Class 37.

Kapesizis, Zafiris D., doing business as Gold Plate Sauce Company, Los Angeles, Calif. Cooked vegetable sauce. 245,225; Aug. 7; Serial No. 263,550; published May 29, 1928. Class 46.

Katzinger, Edward, Company, Chicago, Ill. Domestic measuring cups. 245,021; Aug. 7; Serial No. 264,570; published May 29, 1928. Class 26.

Katzinger, Edward, Company, Chicago, Ill. Base-metal pie pans and cake pans. 245,277; Aug. 7; Serial No. 262,310; published May 29, 1928. Class 13.

Kelly, Geo. J., Inc., Lynn, Mass. Shoe polishes, dressings, and cleaners. 245,158; Aug. 7; Serial No. 264,288; published May 29, 1928. Class 4.

Kimball, A., Company, New York, N. Y. Blank marking tickets, tags, and blank labels. 245,346; Aug. 7. Class 37.

Kingsboro Silk Mills, Inc., Gloversville, N. Y. Knitted cotton, rayon, silk, etc., underwear for women and children. 245,330; Aug. 7. Class 39.

Kops Bros. Inc., New York, N. Y. Corsets, brassières, and girdles. 245,278; Aug. 7; Serial No. 261,010; published Apr. 10, 1928. Class 39.

Kornhandler & Kane, Inc., New York, N. Y. Misses', women's, and children's dresses. 245,186; Aug. 7; Serial No. 261,066; published Apr. 17, 1928. Class 39.

Kurtz Bros., Philadelphia, Pa. Macaroni. 245,157; Aug. 7; Serial No. 264,431; published May 29, 1928. Class 46.

Kurtz Bros., Clearfield, Pa. Typewriter tablets, composition books, drawing paper, etc. 245,327; Aug. 7. Class 37.

Labensky, Morris, doing business as M. Labensky, New York, N. Y. Coats and suits. 245,238; Aug. 7; Serial No. 261,577; published Apr. 24, 1928. Class 39.

Lake, Norman H., Boston, Mass. Hose protectors. 245,050; Aug. 7; Serial No. 260,638; published Apr. 10, 1928. Class 39.

La Maroquinerie Nationale, Soc. Ame., Brussels, Belgium. Gloves of leather. 245,039; Aug. 7; Serial No. 259,497; published Apr. 17, 1928. Class 39.

Lamme, Edgar H., doing business as Coffee Blenders' Shoppe, Santa Ana, Calif. Poultry seasoning, cloves, mustard, etc. 245,237; Aug. 7; Serial No. 261,819; published May 29, 1928. Class 46.

Lance Packing Company, Charlotte, N. C. Sandwiches. 245,233–4; Aug. 7; Serial Nos. 262,095–6; published May 29, 1928. Class 46.

Laraque, Roland, Paris, France. Steam engines and their parts, motors, vacuum pumps, etc. 245,208; Aug. 7; Serial No. 261,266; published May 29, 1928. Class 23.

Lee and Cady, Detroit, Mich. Package cocoa. 245,318; Aug. 7. Class 46.

Lee and Cady, Detroit, Mich. Toilet paper. 245,333; Aug. 7. Class 37.

Lee and Cady, Detroit, Mich. Toothpicks. 245,335; Aug. 7. Class 44.

Levi-Simson & Company, New York, N. Y. Silk and cotton goods. 245,342; Aug. 7. Class 42.

Levine, Maurice, New York, N. Y. Cleaning pads of steel wool. 245,164; Aug. 7; Serial No. 263,875; published May 29, 1928. Class 4.

Levy Bros. & Adler Rochester, Inc., Rochester, N. Y. Men's suits, overcoats, topcoats, and knickers. 245,288; Aug. 7; Serial No. 246,296; published Apr. 24, 1928. Class 39.

Lighting Specialties Co. (See Garey, Dorothy A.)

Literary Guild of America, Inc., The, New York, N. Y. Printed books. 245,092; Aug. 7; Serial No. 263,485; published May 29, 1928. Class 38.

Lobel, Benjamin, doing business as Lo-Bel Middy Company, New York, N. Y. Suits and blouses, etc. 245,105; Aug. 7; Serial No. 261,887; published Apr. 10, 1928. Class 39.

Lo-Bel Middy Company. (See Lobel, Benjamin.)

Loya Laboratories, Los Angeles, Calif. Cleansing and astringent lotions. 245,130; Aug. 7; Serial No. 263,325; published May 29, 1928. Class 6.

Lubow Brothers, Inc., New York, N. Y. Topcoats, overcoats, suits, etc. 245,242; Aug. 7; Serial No. 261,323; published Apr. 24, 1928. Class 39.

MacFadden Publications, Inc., New York, N. Y. Magazine published periodically. 245,307; Aug. 7; Serial No. 264,175; published May 15, 1928. Class 38.

Macy, R. H., & Co., Inc., New York, N. Y. Men's leather shoes. 245,290; Aug. 7; Serial No. 245,066; published Apr. 24, 1928. Class 39.

Magic Maid Laboratories. (See Wilkes, Frederic.)

Maginnis Cotton Mills. (See Benjamin, E. V., Company, Inc., The.)

Magnet Polish Co., The, Ozone Park, N. Y. Furniture polish. 245,192; Aug. 7; Serial No. 262,666; published May 29, 1928. Class 16.

Mahmarian, Levon, doing business as S. B. Mahmarian, New York, N. Y. Oriental rugs. 245,104; Aug. 7; Serial No. 261,891; published May 29, 1928. Class 42.

Management Magazines, Inc., Chicago, Ill. Section or department of a magazine. 245,047; Aug. 7; Serial No. 260,951; published May 29, 1928. Class 38.

Marine City Motor Casting Company, Marine City, Mich. Pancake griddles. 245,113; Aug. 7; Serial No. 263,771; published May 29, 1928. Class 13.
Marvellum Company, The, Holyoke, Mass. Cover paper. 245,110; Aug. 7; Serial No. 263,712; published May 15, 1928. Class 37.
Master Service Inc., New York, N. Y. Books, leaflets, and instruction sheets. 245,086; Aug. 7; Serial No. 252,270; published May 22, 1928. Class 38.
Mavreline Company, The. (See Mavrelis, Peter L.)
Mavrelis, Peter L., doing business as The Mavreline Company, Waterloo, Iowa. Liniment. 245,034; Aug. 7; Serial No. 264,034; published May 29, 1928. Class 6.
McClellan Shoe Specialty Co., The, Kennett Square, Pa. Box toes. 245,241; Aug. 7; Serial No. 261,324; published Apr. 24, 1928. Class 39.
McCullough, Edwin C., New York, N. Y. Powders for chocolate milk drinks. 245,156; Aug. 7; Serial No. 264,594; published May 29, 1928. Class 46.
McEwen, Irving, Omaha, Nebr. Fertilizer. 245,308; Aug. 7; Serial No. 264,115; published May 29, 1928. Class 10.
Mechanical Handling Systems, Incorporated, Detroit, Mich. Apparatus for mechanical handling of bulk and packaged materials and constructive parts of such apparatus. 245,122; Aug. 7; Serial No. 263,773; published May 29, 1928. Class 23.
Metalweld, Incorporated, Philadelphia, Pa. Air compressors, pumps, clay spades, rock drills, etc. 245,117; Aug. 7; Serial No. 263,880; published May 29, 1928. Class 23.
Metalweld, Incorporated, Philadelphia, Pa. Air compressors, pumps, special tools, etc. 245,118; Aug. 7; Serial No. 263,879; published May 29, 1928. Class 23.
Midland Chemical Laboratories, Inc., Dubuque, Iowa. Shampoo. 245,206; Aug. 7; Serial No. 261,375; published May 29, 1928. Class 6.
Miller, I., and Sons, Incorporated, Long Island City, N. Y. Women's and girls' hosiery. 245,254; Aug. 7; Serial No. 248,781; published Apr. 10, 1928. Class 39.
Miller, Juanita, Oakland, Calif. Tea. 245,070; Aug. 7; Serial No. 255,922; published May 29, 1928. Class 46.
Miller Rubber Company, The, Akron, Ohio. Stomach tubes, breast pumps, etc. 245,190; Aug. 7; Serial No. 262,672; published May 29, 1928. Class 44.
Miller Rubber Company, The, Akron, Ohio. Hollow rubber balls, rubber inflated toys, and rubber dolls. 245,191; Aug. 7; Serial No. 262,673; published May 22, 1928. Class 22.
Milson Company, The, Cincinnati, Ohio. Toilet water, perfumes, powder, creams, and lotions. 245,201; Aug. 7; Serial No. 262,111; published Apr. 24, 1928. Class 6.
Mirenburg, H., & Co. Inc., New York, N. Y. Piece goods made of silk. 245,137; Aug. 7; Serial No. 258,343; published Apr. 3, 1928. Class 42.
Modern Magic Co. Inc., New York, N. Y. Cigarette, egg, dice, card, etc., tricks and apparatus for producing illusions and escapes. 245,281; Aug. 7; Serial No. 249,284; published May 29, 1928. Class 22.
Mt. Madison Spring Co., Gorham, N. H. Maltless beverages and sirups, extracts, and concentrates for making the same. 245,196; Aug. 7; Serial No. 262,373; published May 29, 1928. Class 45.
Mountain City Knitting Mills, Chattanooga, Tenn. Hosiery. 245,275; Aug. 7; Serial No. 262,476; published Apr. 17, 1928. Class 39.
Multi-Products Company. (See Feigelman, Herman A.)
Mutual Stores, Inc., Oakland, Calif. Toilet paper and paper napkins. 245,304; Aug. 7; Serial No. 264,497; published May 29, 1928. Class 37.
Myer Bottling Co., Inc., New York, N. Y. Maltless beverages, sirups, extracts, and concentrates for making the same. 245,032; Aug. 7; Serial No. 264,042; published May 29, 1928. Class 45.
Myers, Lewis E., & Company, Valparaiso, Ind., assignors to The Northern Trust Company and Harold H. Rockwell, trustees. Wheeled goods. 245,072–4; Aug. 7; Serial Nos. 255,190–2; published May 29, 1928. Class 22.
Myers, Lewis E., & Company, Valparaiso, Ind., assignors to The Northern Trust Company and Harold H. Rockwell, trustees. Wheeled goods. 245,075; Aug. 7; Serial No. 255,187; published May 29, 1928. Class 22.
National Spiritual Assembly of The Baha'is of The United States and Canada, New York, N. Y. Magazines and printed books. 245,271; Aug. 7; Serial No. 262,923; published May 22, 1928. Class 38.
National Utilities Corporation, Milwaukee, Wis. Freshwater systems. 245,203; Aug. 7; Serial No. 261,979; published May 29, 1928. Class 23.
New Haven Clock Co., The, New Haven, Conn. Clocks and watches. 245,340; Aug. 7. Class 27.
Newport Hat Body Co., Inc., New York, N. Y. Hats and hat bodies. 245,136; Aug. 7; Serial No. 258,696; published May 1, 1928. Class 39.
Niles, Frederick W., West Bend, Wis. Shoe-sole preservatives. 245,163; Aug. 7; Serial No. 263,884; published May 29, 1928. Class 4.
Normalizer Co., The. (See Collapso Camp Bed Co., Inc.)
North & Judd Manufacturing Company, New Britain, Conn. Slider-controlled fasteners. 245,274; Aug. 7; Serial No. 262,525; published May 29, 1928. Class 13.
Northern Trust Company et al., trustees. (See Myers, Lewis E., & Company, assignor.)
Nourse Oil Company, Kansas City, Mo. Nonfreezing fluid for automobile radiators. 245,081; Aug. 7; Serial No. 265,061; published May 29, 1928. Class 6.
Nusilver Products Co., Tulsa, Okla. Plating solution. 245,336; Aug. 7. Class 6.
Onyx Knitting Mills. (See Peterzell, Harry L.)
Outlet Company, The, Providence, R. I. Men's clothing. 245,188; Aug. 7; Serial No. 261,016; published Apr. 17, 1928. Class 39.
Oxnard Citrus Association, Hueneme and Camarillo, Calif. Fresh citrus fruits. 245,193; Aug. 7; Serial No. 262,625; published May 29, 1928. Class 46.
Pacific Radiator, Oakland, Calif. Automotive repair-price leaflets. 245,210; Aug. 7; Serial No. 240,730; published May 29, 1928. Class 38.
Paramount Specialty Company, Springfield, Mass. Paper napkins and towels and toilet paper. 245,044; Aug. 7; Serial No. 258,275; published May 15, 1928. Class 37.
Parker Brothers, Inc., Salem, Mass. Games. 245,200; Aug. 7; Serial No. 262,116; published May 22, 1928. Class 22.
Parkley Shirt Co., Inc., New York, N. Y., and Branford, Conn. Men's shirts. 245,081; Aug. 7; Serial No. 256,371; published Apr. 10, 1928. Class 39.
Parlette, Snowdon, Oklahoma City, Okla. Inks. 245,334; Aug. 7. Class 11.
Paymer Brothers, Baltimore, Md. Men's suits and overcoats. 245,286–7; Aug. 7; Serial Nos. 246,358–9; published Apr. 24, 1928. Class 39.
Pearson Brothers, London, England. Waterproof coats and capes. 245,149–50; Aug. 7; Serial Nos. 260,783–4; published Apr. 24, 1928. Class 39.
Pell, Rodman C., jr., doing business as Sanitary Undergarment Co., San Francisco, Calif. Sleeveless union suits. 245,249; Aug. 7; Serial No. 254,422; published Apr. 24, 1928. Class 39.
Pennamacoor, Agnes, doing business as Delicatessen Publishing Company, New York, N. Y. Monthly publication. 245,096; Aug. 7; Serial No. 261,720; published May 22, 1928. Class 38.
Peterson Nut Company, Cleveland, Ohio. Candied and salted nuts and nuts in their natural state. 245,062; Aug. 7; Serial No. 258,957; published May 29, 1928. Class 46.
Peterzell, Harry L., doing business as Onyx Knitting Mills, also doing business as Hanover Knitting Mills of America, Philadelphia, Pa. Sweaters, bathing suits, knitted dresses, and knitted coats, caps, and sport hosiery. 245,146; Aug. 7; Serial No. 255,073; published May 1, 1928. Class 39.
Phillips, William A., Milwaukee, Wis. Balance sheets, journal sheets, etc. 245,280; Aug. 7; Serial No. 249,375; published May 29, 1928. Class 37.
Pinomo Sanitary Products. (See Stahl, Ottilie C.)
Pokress, Louis N., Los Angeles, Calif. Ladies' hats. 245,183; Aug. 7; Serial No. 261,142; published Apr. 10, 1928. Class 39.
Pond's Extract Company, New York, N. Y. Tissue paper. 245,041; Aug. 7; Serial No. 259,420; published May 29, 1928. Class 37.
Portland Copper Works. (See Hugo, Morris.)
Prager, L. W., & Son, New York, N. Y. Overcoats and topcoats. 245,283; Aug. 7; Serial No. 243,883; published Apr. 17, 1928. Class 39.
Preferred Baking Co., Boston, Mass. Ice-cream cones. 245,159; Aug. 7; Serial No. 264,198; published May 29, 1928. Class 46.
Quaker Lace Company, Philadelphia, Pa. Lace curtains and curtain lace. 245,295; Aug. 7; Serial No. 265,403; published May 29, 1928. Class 42.
R. B. Chemical Company, The, Southington, Conn. Liquid dry-cleansing compound. 245,231; Aug. 7; Serial No. 262,576; published May 22, 1928. Class 4.
Radiant Steel Products Co., Williamsport, Pa. Radiator covers. 245,204; Aug. 7; Serial No. 261,907; published May 29, 1928. Class 32.
Radio Dial, The, New York, N. Y. Magazine. 245,087; Aug. 7; Serial No. 251,628; published May 29, 1928. Class 38.
Ransom & Randolph Co., The, Toledo, Ohio. Instruments for dental purposes such as scalers. 245,328; Aug. 7. Class 44.
Realty Periodical Corporation, New York, N. Y. Monthly printed periodical or trade paper. 245,103; Aug. 7; Serial No. 263,103; published May 22, 1928. Class 38.
Reliable Knitting Works, Milwaukee, Wis. Children's caps. 245,284; Aug. 7; Serial No. 247,869; published May 1, 1928. Class 39.
Rich-Maid Manufacturing Company, Incorporated, Richmond, Va. Roasted coffee. 245,019; Aug. 7; Serial No. 264,778; published May 29, 1928. Class 46.
Robinson, Lee I., Philadelphia, Pa. Hosiery. 245,134; Aug. 7; Serial No. 259,592; published May 1, 1928. Class 39.
Rochester Paper Co., Rochester, Mich. Blotting paper. 245,108; Aug. 7; Serial No. 261,770; published May 15, 1928. Class 37.
Rockwell, Harold H., et al., trustees. (See Myers, Lewis E., & Company, assignor.)
Rosborough, Allan A., doing business as Alan Specialty Company, Chicago, Ill. Letter card game. 245,068; Aug. 7; Serial No. 256,089; published May 22, 1928. Class 22.

Rosland Corporation, New York, N. Y. Yarn. 245,297; Aug. 7; Serial No. 265,168; published May 29, 1928. Class 43.
Rubin, Henry, Brooklyn, N. Y. Malt extract. 245,155; Aug. 7; Serial No. 264,610; published May 29, 1928. Class 46.
Runde, Edward A., St. Louis, Mo. Antiseptic, germicide, deodorant, and astringent. 245,061; Aug. 7; Serial No. 259,082; published May 29, 1928. Class 6.
Safety Glass and Xetal Products, Limited, Stapleford, England. Bandages, strips, bands, etc. 245,090; Aug. 7; Serial No. 249,925; published May 29, 1928. Class 44.
St. Louis Veterinary Laboratories. (See Jacobi, Frank E.)
Sampson & Burnham Co. Inc., Lynn, Mass. Canned asparagus tips, stringless beans, tuna fish, etc. 245,255; Aug. 7; Serial No. 248,257; published May 29, 1928. Class 46.
Sanitary Undergarment Co. (See Pell, Rodman C., jr.)
Schaer, Louis, New York, N. Y. Olive oil. 245,219; Aug. 7; Serial No. 237,985; published May 29, 1928. Class 46.
Schrafft, W. F., & Sons Corporation, Boston, Mass. Candy. 245,033; Aug. 7; Serial No. 264,052; published May 29, 1928. Class 46.
Scott, Rufus W., Company, New York, N. Y. Hosiery. 245,151; Aug. 7; Serial No. 260,759; published May 1, 1928. Class 39.
Selby Shoe Company, The, Portsmouth, Ohio. Shoes. 245,247; Aug. 7; Serial No. 226,690; published Apr. 10, 1928. Class 39.
Semaphore Company, The. (See Flash Laboratories, Inc.)
Sexton Manufacturing Company, Fairfield, Ill. Underwear and nightwear. 245,314–15; Aug. 7.
Shaub, Benjamin W., Lancaster, Pa. Boots and shoes. 245,167; Aug. 7; Serial No. 259,927; published Apr. 24, 1928. Class 39.
Shaw Crane-Putnam Machine Co. Inc., New York, N. Y. Electric cranes, machine tools, engine lathes, boring mills, etc. 245,131; Aug. 7; Serial No. 263,016; published May 29, 1928. Class 23.
Sheridan-Clayton Paper Co., St. Joseph, Mo. Wrapping paper. 245,326; Aug. 7. Class 37.
Shirek & Hirsch, New York, N. Y. Coats, vests, trousers, etc. 245,053; Aug. 7; Serial No. 260,535; published Apr. 10, 1928. Class 39.
Shulsinger Publishing Company, New York, N. Y. Monthly magazine. 245,112; Aug. 7; Serial No. 263,791; published May 15, 1928. Class 38.
Siebel, Peter, doing business as Siebel Company, New York, N. Y. Masonic or lodge aprons. 245,226; Aug. 7; Serial No. 260,358; published Apr. 24, 1928. Class 39.
Siegel, Irvine, New York, N. Y. Photographic prints. 245,272; Aug. 7; Serial No. 262,774; published May 29, 1928. Class 36.
Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Current meters, voltmeters, fluegas testers, etc. 245,065; Aug. 7; Serial No. 258,556; published May 29, 1928. Class 26.
Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Current meters, voltmeters, fluegas testers, etc. 245,069; Aug. 7; Serial No. 255,936; published May 29, 1928. Class 26.
Silbar, Allen, doing business as Juliet Producta Co., Chicago, Ill. Dry-cleaning preparation. 245,226; Aug. 7; Serial No. 263,438; published May 15, 1928. Class 4.
Sinion Bros. Co., Madison, Wis. Canned fruits and vegetables, coffee, etc. 245,285; Aug. 27; Serial No. 247,221; published May 29, 1928. Class 46.
Soc.ta Prod.ti Chim.co Farmac.ci A. Bertelli & C., Milan, Italy. Perfumes. 69,269; renewed June 2, 1928.
Soc.ta Prod.ti Chim.co Farmac.ci A. Bertelli & C., Milan, Italy. Medicated plasters. 69,497; renewed June 16, 1928.
Soc.ta Prod.ti Chim.co Farmac.ci A. Bertelli & C., Milan, Italy. Medical preparations. 69,739; renewed June 30, 1928.
Soward, A. L., San Francisco, Calif. Cloths. 245,227; Aug. 7; Serial No. 263,181; published May 29, 1928. Class 4.
Spalding, A. G., & Bros., New York, N. Y. Skates. 245,115; Aug. 7; Serial No. 263,980; published May 29, 1928. Class 22.
Sparks-Withington Company, The, Jackson, Mich. Radio receiving sets, parts thereof, and loud speakers. 245,218; Aug. 7; Serial No. 231,016; published Oct. 11, 1927. Class 21.
Stahl, Ottilie C., doing business as Pinomo Sanitary Products, New York, N. Y. Sanitary belts and napkins. 245,129; Aug. 7; Serial No. 263,336; published May 29, 1928. Class 44.
Steel Drum Accessories Corporation, Buffalo, N. Y. Cast iron or steel valves for use on barrels and the like. 245,080; Aug. 7; Serial No. 256,585; published May 29, 1928. Class 13.
Steele, James O., doing business as The French Shoppe, Atlanta, Ga. Shoes. 245,292; Aug. 7; Serial No. 244,962; published May 1, 1928. Class 39.
Stern Brothers, New York, N. Y. Gloves. 245,037; Aug. 7; Serial No. 259,655; published Apr. 10, 1928. Class 39.
Stewart Products Corporation, The, San Francisco, Calif. Canned sauerkraut and sauerkraut juice. 245,202; Aug. 7; Serial No. 261,994; published May 29, 1928. Class 46.
Stocker, K. A., New York, N. Y. Loom pickers, dobby cords or harness straps, check straps, etc. 245,064; Aug. 7; Serial No. 258,704; published May 29, 1928. Class 23.
Stoecker, Walter H., doing business as Adolph Stoecker & Son, New York, N. Y. Tea. 245,119; Aug. 7; Serial No. 263,837; published May 29, 1928. Class 46.
Stoneback, Samuel A., Philadelphia, Pa. Health bread. 245,321; Aug. 7. Class 46.
Studna, Carl, Kansas City, Mo. Gasoline. 245,279; Aug. 7; Serial No. 249,491; published Oct. 4, 1927. Class 15.
Sudan American Produce Co. Inc., New York, N. Y. Senna leaves, henna leaves, etc. 245,060; Aug. 7; Serial No. 259,145; published May 29, 1928. Class 6.
Sultzbach, Maurice E., Inc., Newark, N. J. Coats, vests, trousers, and overcoats. 245,311; Aug. 7. Class 39.
Sunland Packing House Company, Porterville, Calif. Fresh oranges. 245,263; Aug. 7; Serial No. 265,023; published May 29, 1928. Class 46.
Sun Shine Laboratories, Colony, Kans. Preparations. 245,190; Aug. 7; Serial No. 262,336; published May 29, 1928. Class 6.
Supreme Council (Mother Council of the World) of the Inspectors General Knights Commanders of the House of the Temple of Solomon of the Thirty-third Degree of the Ancient and Accepted Scottish Rite of Free Masonry of the Southern Jurisdiction of the United States of America, The, Washington, D. C. Periodical. 245,245; Aug. 7; Serial No. 256,752; published Dec. 13, 1927. Class 38.
Tablet & Ticket Co., The, Chicago, Ill. Printed and embossed paper labels. 245,185; Aug. 7; Serial No. 261,082; published May 29, 1928. Class 38.
Tarbox, Peirce N., doing business as P. N. Tarbox, New York, N. Y. Compound for metholating cigarettes. 245,268; Aug. 7; Serial No. 264,925; published May 29, 1928. Class 6.
Tennessee Furniture Corporation, Chattanooga, Tenn. Refrigerators. 245,162; Aug. 7; Serial No. 264,058; published May 29, 1928. Class 31.
Terry, George A., New Orleans, La. Game. 245,116; Aug. 7; Serial No. 263,900; published May 29, 1928. Class 22.
Thermogen Products Corporation, New York, N. Y. Heating pads. 245,128; Aug. 7; Serial No. 263,359; published May 29, 1928. Class 44.
Thomas, Field & Co., Charleston, W. Va. Hosiery. 245,224; Aug. 7; Serial No. 259,929; published Apr. 24, 1928. Class 39.
Thompson, T. Barney, Rockford, Ill. Title for editorial and news contributions. 245,306; Aug. 7; Serial No. 264,210; published May 22, 1928. Class 38.
Tip Top Bottling Co., St. Louis, Mo. Beverages sold as soft drinks. 245,209; Aug. 7; Serial No. 241,454; published June 21, 1927. Class 45.
Toledo Rex Spray Company, The, Toledo, Ohio. Dry-cleaning preparations. 245,161; Aug. 7; Serial No. 264,060; published May 29, 1928. Class 4.
Torrington Specialty Co., Torrington, Conn. Neckwear-display fixtures, etc. 245,055; Aug. 7; Serial No. 260,475; published May 29, 1928. Class 32.
Tridex Equipment Company Inc., Dallas, Tex. Machines for removing grease, etc. from the surface of any article or structure. 245,017; Aug. 7; Serial No. 264,926; published May 29, 1928. Class 23.
Triumph Manufacturing Company. (See Goldman, Sigmund L.)
Union Malt Products Company, The. (See Zahringer, George M.)
U. S. Paper Company, Los Angeles, Calif. Toilet paper. 245,040; Aug. 7; Serial No. 259,378; published May 15, 1928. Class 37.
United States Rubber Company, New York, N. Y. Rubber tires for vehicles 245,262; Aug. 7; Serial No. 265,026; published May 29, 1928. Class 35.
Upland Lemon Growers Association, Upland, Calif. Oranges, lemons, and grapefruit. 245,267; Aug. 7; Serial No. 264,929; published May 29, 1928. Class 46.
Vanity Fair Silk Mills, Reading, Pa., and New York, N. Y. Women's and children's underwear. 245,232; Aug. 7; Serial No. 262,496; published Apr. 24, 1928. Class 39.
Vestal Chemical Co., St. Louis, Mo. Liquid soap. 245,239; Aug. 7; Serial No. 261,469; published Apr. 3, 1928. Class 4.
Vet Products Laboratory Inc., Westbury, N. Y. Corn sugar. 245,165; Aug. 7; Serial No. 263,796; published May 29, 1928. Class 46.
Visking Corporation, The, Chicago, Ill. Sausages and frankfurters. 245,076–7; Aug. 7; Serial Nos. 254,788–9; published May 29, 1928. Class 46.
Vrabek, Rudolph, New York, N. Y. Waterproof hosiery. 245,187; Aug. 7; Serial No. 261,025; published Apr. 17, 1928. Class 39.
Warm Air Furnace Fan Company, Cleveland, Ohio. Publication. 245,172; Aug. 7; Serial No. 261,061; published May 15, 1928. Class 38.

Wheeling Steel Corporation, Wheeling, W. Va. Metal pipe. 245,301; Aug. 7; Serial No. 264,622; published May 29, 1928. Class 13.
Whitin Machine Works, Whitinsville, Mass. Textile machines. 245,205; Aug. 7; Serial No. 261,852; published May 29, 1928. Class 23.
Wieland, A. Robert, Auerbach, near Chemnitz, Germany. Hosiery, corsets, necktles, etc. 245,084; Aug. 7; Serial No. 255,149; published Apr. 10, 1928. Class 39.
Wilkes, Frederic, doing business as Magic Maid Laboratories, Wilkinsburg, Pa. Washing and cleaning compounds. 245,229; Aug. 7; Serial No. 262,833; published May 22, 1928. Class 4.
Wimbar, Inc., New York, N. Y. Golf irons and clubs. 245,121; Aug. 7; Serial No. 263,806; published May 29, 1928. Class 22.
Winsted Hardware Manufacturing Co., The, Winsted, Conn. Hardware. 245,171; Aug. 7; Serial No. 261,688; published May 29, 1928. Class 13.
Wright, Stanford, Boston, Mass. Office bulletins and house organ. 245,102; Aug. 7; Serial No. 263,113; published May 15, 1928. Class 38.
Wrisley, Allen B., Company, Chicago, Ill. Soap and soap chips. 245,289; Aug. 7; Serial No. 246,190; published May 15, 1928. Class 4.
Yellin, J. & M., New York, N. Y. Dresses. 245,106; Aug. 7; Serial No. 261,854; published Apr. 10, 1928. Class 39.
Young-Quinlan Company, The, Minneapolis, Minn. Coats, wraps, capes, etc. 245,213; Aug. 7; Serial No. 235,708; published Apr. 10, 1928. Class 39.
Young-Quinlan Company, The, Minneapolis, Minn. Coats, wraps, capes, etc. 245,214; Aug. 7; Serial No. 235,443; published Apr. 10, 1928. Class 39.
Young-Quinlan Company, The, Minneapolis, Minn. Coats, wraps, capes, etc. 245,215; Aug. 7; Serial No. 235,366; published Apr. 10, 1928. Class 39.
Young-Quinlan Company, The, Minneapolis, Minn. Coats, wraps, capes, etc. 245,216; Aug. 7; Serial No. 235,364; published Apr. 10, 1928. Class 39.
Zahringer, George M., doing business as The Union Malt Products Company, Milwaukee, Wis. Malt syrup. 245,166; Aug. 7; Serial No. 263,574; published May 29, 1928. Class 46.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Abelman, Max, doing business as Maco Paint & Varnish Co., Boston, Mass. Namelite Mill White. For Paints. 34,391; Aug. 7.
Bradford Bros., Inc., Placentia, Calif. Miracle. For Fresh Oranges. 34,392; Aug. 7.
Clark Brothers Chewing Gum Co., Pittsburgh, Pa. Long Chew Gum (Case #1). For Chewing Gum. 34,393; Aug. 7.
Clark Brothers Chewing Gum Co., Pittsburgh, Pa. Long Chew Gum (Case #3). For Chewing Gum. 34,394; Aug. 7.
Colca Cookie Corp., Brooklyn, N. Y. Colca. For Cookies. 34,395; Aug. 7.
Coney Island Soda Water Co., Inc., doing business as Teitler's Beverages, Brooklyn, N. Y. Teitler's. For Bottler Carbonated Beverages. 34,396; Aug. 7.
D & D Laboratories. (See Dean, Charles M.)
Dean, Charles M., doing business as D & D Laboratories, Los Angeles, Calif. Sole Joy. For Massage for the Feet. 34,397; Aug. 7.
Fyfe, R. H., & Co., Detroit, Mich. Fyfes. For Shoes. 34,398; Aug. 7.
Gerrish, Dorothy K., doing business as Treasure Island Delicacies, Minneapolis, Minn. Treasure Island Delicacies. For Cakes and Confections. 34,399; Aug. 7.
Grand River Fruit Association, Spring Lake, Mich. Concord Grapes. For Concord Grapes. 34,400; Aug. 7.
Guntrath-Lorenzen Co., Chicago, Ill. Sher-Bo. For Dessert and Pudding Powder. 34,401; Aug. 7.
Halfety, G. P., & Co., Seattle, Wash. Pioneer. For Canned Minced Clams. 34,402; Aug. 7.
Hickman, R. H., Company, Stowe Township and Pittsburgh, Pa. Hickman's Silver Birch Chewing Gum. For Chewing Gum. 34,403; Aug. 7.
Kassim, Ravanna E. M., doing business as R. E. Mohamed Kassim & Co., Klang, Selanger, Federated Malay States. Kassim. For Canned Fish. 34,404; Aug. 7.
Kimball, Leroy W., Chicago, Ill. Variety. For Candy Bars. 34,405; Aug. 7.
Leonardo, Samuel, doing business as Temple-Hill Syrup Co., Newburgh, N. Y. A-Mond Soda. For a Nonalcoholic Beverage—Namely, Soda. 34,406; Aug. 7.
Leonardo, Samuel, doing business as Temple-Hill Syrup Co., Newburgh, N. Y. Soda. For Nonalcoholic Beverages. 34,407; Aug. 7.
Leone, Albert C., Burbank, Calif. Morning Glory. For Substitute for Coffee. 34,408; Aug. 7.
Mackenzie, Robt. F., Co., The, Cleveland, Ohio. Amandola. For Candy. 34,409; Aug. 7.
Maco Paint & Varnish Co. (See Abelman, Max.)
Michelucci, Foresto, Pittsburgh, Pa. Foresto Michelucci's Medicated Bathing Medicine. For a Medicinal Preparation. 34,410; Aug. 7.
Mid-Pacific Candy Company, Limited, Honolulu, Hawaii. Golden Hawaiian. For Glacé Pineapple. 34,411; Aug. 7.
National Carbon Company, Inc., New York, N. Y. Hercules Dry Cell. For Electric Batteries. 34,412; Aug. 7.
Rose'mond Cosmetic Co., Los Angeles, Calif. Rose'mond. For Cleansing Cream. 34,413; Aug. 7.
Stoll & Edwards Co. Inc., New York, N. Y. The Boxing Game, Manly Art of Self Defense. For Game. 34,414; Aug. 7.
Studio Hosiery Company, St. Louis, Mo. H. R. H. Her Royal Highness. For Hosiery. 34,415; Aug. 7.
Teitler's Beverages. (See Coney Island Soda Water Co., Inc.)
Temple-Hill Syrup Co. (See Leonardo, Samuel.)
Thunderbolt Co., The, Philadelphia, Pa. Thunderbolt. For Insecticide. 34,416; Aug. 7.
Treasure Island Delicacies. (See Gerrish, Dorothy K.)
Welch Grape Juice Company, The, Westfield, N. Y. Welch-Ade. For Welch-Ade. 34,417; Aug. 7.
Wyman, Sol W., Cleveland, Ohio. Cinderella Slipper Shoppe. For Shoes, Slippers, Rubbers, and Hosiery. 34,418; Aug. 7.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Black, Starr & Frost, New York, N. Y. Handbags . . . In a Selection of Individual Creations that are very Unusual. For Hand Bags. 11,135; Aug. 7.
C. G. Spring & Bumper Company, The, Detroit, Mich. Individuality. For Vehicle Bumpers. 11,136; Aug. 7.
C. G. Spring & Bumper Company, The, Detroit, Mich. The Phalanx of Protection. For Vehicle Bumpers. 11,137; Aug. 7.
Clamp Nail Company, Chicago, Ill. Miter Nails. For Clamp Nails. 11,138; Aug. 7.
Clamp Nail Company, Chicago, Ill. Prices of Clamp Nails. For Clamp Nails. 11,139; Aug. 7.
Clamp Nail Company, Chicago, Ill. Miter Nails. For Clamp Nails. 11,140; Aug. 7.
Clamp Nail Company, Chicago, Ill. Steelgrip. For Clamp Nails. 11,141; Aug. 7.
Clamp Nail Company, Chicago, Ill. Siegler. For Clamp Nails. 11,142; Aug. 7.
Clark Brothers Chewing Gum Co., Pittsburgh, Pa. Long Chew Gum (Case #2). For Chewing Gum. 11,143; Aug. 7.
Continental Steel Corporation, Kokomo, Ind. Pioneer Fence. For Wire Fencing. 11,144; Aug. 7.
Frasik, A. M., & Son Co., Detroit, Mich. Frasik's Red Seal Aspirin. For Aspirin. 11,145; Aug. 7.
Heinz, H. J., Company, Pittsburgh, Pa. We Discovered a Better Way. For Peanut Butter. 11,146; Aug. 7.
McMillan, Walter C., Inc., New York, N. Y. National Shelter Group. For Colored Inserts for Magazines. 11,147; Aug. 7.
Rogers, Wm. A., Ltd., Niagara Falls, N. Y. Give her a Silverware Shower. For Heirloom Plate Silverware. 11,148; Aug. 7.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Aarons, A., Co., Inc., New Orleans, La. Liniment, medical preparations for animals and poultry, etc. 265,309; Aug. 7. Class 6.
Abrasive Company, Philadelphia, Pa. Abrasive grinding and polishing wheels. 265,875; Aug. 7. Class 4.
Akron Tyrwelder Company, The, Akron, Ohio. Tire-vulcanizing machine. 267,221; Aug. 7. Class 23.
Alpina A.-G., Gumligen, near Bern, Switzerland. Leathers. 267,685; Aug. 7. Class 1.
Amateur Cinema League, Inc., New York, N. Y. Monthly magazine. 267,686; Aug. 7. Class 38.
American Association of Medical Milk Commissions, Inc., also doing business as Certified Milk Producers' Association of America, Inc., Brooklyn, N. Y. Milk and cream. 267,289; Aug. 7. Class 46.
American-National Company, The, Toledo, Ohio. Juvenile amusement devices. 264,502; Aug. 7. Class 22.
American Pigeon Journal Co. (See Hollmann, Frank H.)
American Solvents & Chemical Corporation, New York, N. Y. Ethyl alcoholic liquors. 263,739; Aug. 7. Class 49.
American Waterproofing Company, The, Cincinnati, Ohio. Waterproofing paint. 266,572; Aug. 7. Class 16.
Andersen Flume Gate Company, Redlands, Calif. Flume gates. 267,332; Aug. 7. Class 13.
Anderson Drug Company, Fort Valley, Ga. Alternative tonic. 265,355; Aug. 7. Class 6.
Anderson, Edwin H., New York, N. Y. Fertilizers. 266,778; Aug. 7. Class 10.
Architectural Cast Stone Co. (See Lachin, Victor.)
Arnesto Paint Company, Inc., New York, N. Y. Paint. 267,480; Aug. 7. Class 16.
Associated Publishing Co., Inc., Los Angeles, Calif., Chicago, Ill., and New York, N. Y. Magazine. 267,826; Aug. 7. Class 38.
Atlantic Packing Company. (See Consolidated Rendering Company.)
Aubry, Justin E., doing business as Aubry's Bakery, Pittsfield, Mass. Bread, cake, and pastry. 265,939; Aug. 7. Class 46.
Automatic Equipment Co. (See Burnoyl Heating Corporation.)
Automatic Sprinkler Corporation of America, Cleveland, Ohio. Automatic sprinkler apparatus and parts thereof. 265,878; Aug. 7. Class 13.
Automotive Standards, Inc., Newark, N. J. Electric automobiles. 268,338; Aug. 7. Class 19.
Babcock, A. P., Company, New York, N. Y. Astringents, bleach creams, dry rouges, etc. 264,489; Aug. 7. Class 6.
Baker, James S. S., London, England. Inks. 266,185; Aug. 7. Class 11.
Balfour, Williamson & Co., New York, N. Y. Green coffee. 256,276–7; Aug. 7. Class 46.
Baxley, William H., doing business as Florida Chemical Corp., Jacksonville, Fla. Insecticide. 257,657; Aug. 7. Class 6.
Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 268,134; Aug. 7. Class 39.
Beaver Produce Company. (See Shekter, Jacob J.)
Bedner, Harry L., doing business as Quaker Fresh Fish Fillet Co., Philadelphia, Pa. Fresh fish fillets. 262,948; Aug. 7. Class 46.
Benedict Company. (See Kovach, Benedict.)
Bens' Chemical Company, The, Jackson, Mich. Preparation used for cleaning and rejuvenating varnished or painted surfaces. 267,924; Aug. 7. Class 16.
Bercy's Laboratories. (See Fleron, M. M., & Son, Inc.)
Berkowitz, Sam, doing business as Royal Blue Hosiery Co., New York, N. Y. Hosiery. 266 235; Aug. 7. Class 39.
Bert's Laboratory. (See Montagna, Humbert F.)
Bienstock, Anna E., Newark, N. J. Cleaning, dusting, and polishing mops. 267,403; Aug. 7. Class 29.
Bio-Labro Products, Inc., New York, N. Y. Preparation to allay irritation of the throat. 264,749; Aug. 7. Class 6.
Bio-Labro Products, Inc., New York, N. Y. Preparation for neutralizing the odor of nicotine and overcoming tobacco breath odors and aftertaste of smoking. 264,750; Aug. 7. Class 6.
Blue Bird Chemical Company, Los Angeles, Calif. Gasoline. 266,784; Aug. 7. Class 15.
Blunt, Miles, doing business as Dresvelope Company of America, assignor to Dresvelope Corporation, San Francisco, Calif. Paper garment protector and container. 261,482; Aug. 7. Class 2.
Bon Soir Bug Company. (See Garland, Augustus H.)
Boott Mills, Lowell, Mass. Cotton cloth. 263,636; Aug. 7. Class 42.
Brooks, E. J., and Company, New York, N. Y. Truck-car and shipping-case seals. 266,578; Aug. 7. Class 25.
Brooks, Leone W., Flint, Mich. Medicine for the treatment of hay fever, medicinal snuff, etc. 263,068; Aug. 7. Class 6.
Brown, Little B., doing business as The Chic-Tone Company, Angola, Ind. Poultry tonic. 266,239; Aug. 7. Class 6.
Brown, Martha, Omaha, Nebr. Aprons. 247,774; Aug. 7. Class 39.
Brown & Williamson Tobacco Corporation, Winston-Salem, N. C. Cigarettes. 262,287; Aug. 7. Class 17.
Browning Brothers Company, Ogden, Utah. Automatic shotguns. 264,867; Aug. 7. Class 9.
Burnoyl Heating Corporation, also doing business as Automatic Equipment Co., Providence, R. I. Portable hand fire extinguishers and automatic fire extinguishers. 265,884; Aug. 7. Class 23.
Buxbaum, Nathan, Brooklyn, N. Y. Frosted, sliced, etc., fruits. 267,483; Aug. 7. Class 46.
Calajoe, Anthony J., doing business as Walcal Laboratories, Inc., New York, N. Y. Blood purifier. 263,070; Aug. 7. Class 6.
Cannon, Lill, Bowersville, Ga. Bread. 268,675; Aug. 7. Class 46.
Capitol Silk Corporation, New York, N. Y. Silks in the piece. 268,846; Aug. 7. Class 42.
Captain & Goldman, New York, N. Y. Men's hats. 250,438; Aug. 7. Class 39.
Carson Pirie Scott & Co., Chicago, Ill. Boys' outer suits and overcoats. 267,538; Aug. 7. Class 39.
Carson Pirie Scott & Co., Chicago, Ill. Men's collars. 267,698; Aug. 7. Class 39.
Carson Pirie Scott & Co., Chicago, Ill. Hosiery. 268,026; Aug. 7. Class 39.
Cavendish Chemical Corp., New York, N. Y. Tooth pastes. 268,771; Aug. 7. Class 6.
Cemroc, Inc., Cincinnati, Ohio. Building units. 265,257; Aug. 7. Class 12.
Cenol Company, Chicago, Ill. Preparation for destroying moth and moth larvæ. 268,028; Aug. 7. Class 6.
Certified Milk Producers' Association of America, Inc. (See American Association of Medical Milk Commissions, Inc.)
Chalfont Products Incorporated, New York, N. Y. Lotions and creams. 252,241; Aug. 7. Class 6.
Chesterman-Leeland Company, Philadelphia, Pa. Elastic webbing. 261,239; Aug. 7. Class 40.
Chicago Daily News, Inc., The, Chicago, Ill. Newspapers. 266,581; Aug. 7. Class 38.
Chic-Tone Company, The. (See Brown, Little B.)
Clark, A. C., Company, Inc., Brattleboro, Vt., and Keene, N. H. Salve. 267,934; Aug. 7. Class 6.
Cokal Stoker Corporation, Chicago, Ill. Stokers, grates, and automatic coal burners. 268,485; Aug. 7. Class 34.
Colbert, James A., Fort Wayne, Ind. Medicinal preparation. 268,354; Aug. 7. Class 6.
Cole Chemical Company, Wilmington, Del., and St. Louis, Mo. Preparation for the treatment of anemia, etc. 268,587; Aug. 7. Class 6.
Collings, William A., Los Angeles, Calif. Waterproofing material. 249,512; Aug. 7. Class 12.
Colorado Refining & Research Corp., Denver, Colo. Chemical reagents. 268,271; Aug. 7. Class 6.
Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Tobacco containers and combination containers for tobacco, cigars, etc. 268,774; Aug. 7. Class 8.
Columbia Hat Manufacturing Co. Inc., New York, N. Y. Men's and boys' straw hats. 250,297; Aug. 7. Class 39.
Commercial Petroleum Company, St. Joseph, Mo. Insecticides. 268,335; Aug. 7. Class 6.
Consolidated Rendering Company, also doing business as Atlantic Packing Company, Boston, Mass. Heavy chemicals. 268,082; Aug. 7. Class 6.
Continental Products Corporation, Los Angeles, Calif. Deodorant, sterilizer, and disinfectant. 268,679; Aug. 7. Class 6.
Craig, Jay W., Minneapolis, Minn. Asphaltic surfacing material. 248,090; Aug. 7. Class 12.
Crawford, McGregor and Canby Company, The, Dayton, Ohio. Golf clubs. 267,700; Aug. 7. Class 22.
Croff, A. C., Philadelphia, Pa. Depilatory powder, deodorant cream, etc. 266,977; Aug. 7. Class 6.
Daly, Webster J., Los Angeles, Calif. Liquid preparation for hair restoring. 268,144; Aug. 7. Class 6.
Davey Tree Expert Company, The, Kent, Ohio. Tree-wound dressing. 264,023; Aug. 7. Class 12.
Day, W. Jule, New York, N. Y. Paints and lacquers. 267,486; Aug. 7. Class 16.
Delbon, Frank G., Brooklyn, N. Y. Metal shanks for shoes. 254,836; Aug. 7. Class 13.
Delbon, Frank G., Brooklyn, N. Y. Metal shanks for shoes. 262,703; Aug. 7. Class 13.

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Delbon, Frank G., Brooklyn, N. Y. Metal shanks for shoes. 264,084; Aug. 7. Class 13.
Delbon, Frank G., Brooklyn, N. Y. Metal shanks for shoes. 268,357; Aug. 7. Class 13.
Dell Publishing Company, New York, N. Y. Magazine. 266,649; Aug. 7. Class 38.
Denver Fire Clay Company, The, Denver, Colo. Diatomaceous or infusorial earth. 262,156; Aug. 7. Class 1.
Diatomite Products Company, Los Angeles, Calif. Diatomite. 248,815–6; Aug. 7. Class 1.
Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)
Dow Drug Company, The, Cincinnati, Ohio. Photographs and photographic prints. 258,117; Aug. 7. Class 38.
Dresvelope Company of America. (See Blunt, Miles.)
Drive-O-Meter Company. (See Winsten, Jules N.)
Dromore Kennels Reg. (See Sharland, Ernest W.)
Du Pont Rayon Company, Buffalo, N. Y. Cellulose-acetate yarns, threads, and filaments. 268,276–7; Aug. 7. Class 43.
Eastern Rolling Mill Company, The, Baltimore, Md. Sheet steel and steel alloys. 266,587; Aug. 7. Class 14.
Ely & Walker Dry Goods Company, St. Louis, Mo. Blankets. 254,900; Aug. 7. Class 42.
Eaton, Charles A., Company, Brockton, Mass. Shoes. 259,484; Aug. 7. Class 39.
Etablissements Textiles de Pfetterhouse, Pfetterhouse, France. Elastic supporters, bandages, belts, etc. 267,300; Aug. 7. Class 44.
Evansville Paint & Varnish Co. (See Red Spot Paint & Varnish Co.)
Excellent-Goody Shop, doing business as The Goody Shop, New York, N. Y. Candy. 247,176; Aug. 7. Class 46.
Face-A-Lite Manufacturing Company, Incorporated, Mitchell, S. Dak. Glare shields for automobile windshields. 266,420; Aug. 7. Class 19.
Fanny Farmer Candy Shops, Inc., Rochester, N. Y. Candy. 251,223; Aug. 7. Class 46.
Farwell & Rhines Co., Inc., The, Watertown, N. Y. Self-rising wheat flour. 263,207; Aug. 7. Class 46.
Federal Tea Company, Inc., Baltimore, Md. Coffee. 265,722; Aug. 7. Class 46.
Feingold, Alexander S., doing business as A. S. Feingold & Co., Philadelphia, Pa. Men's shirts, pajamas, and lounging robes. 261,706; Aug. 7. Class 39.
Fernandez, Jose, doing business as Jose Fernandez Cigar Co., Tampa, Fla. Cigars. 267,889; Aug. 7. Class 17.
Finlayson, Bousfield & Co., Ltd., Johnstone, Scotland. Fishing lines. 267,248; Aug. 7. Class 22.
Fleer, Frank H., Corporation, Philadelphia, Pa. Candy-covered chewing gum. 256,619; Aug. 7. Class 46.
Fleron, M. M., & Son, Inc., doing business as Bercy's Laboratories, Trenton, N. J. Astringents, bleach creams, cold creams, etc. 268,278; Aug. 7. Class 6.
Flint, Frank C., doing business as Knit Goods Specialty Company, Chicopee Falls, Mass. Fabric bags. 267,562; Aug. 7. Class 2.
Florida Chemical Corp. (See Baxley, William H.)
Florida Fruit Canners, Inc., Frostproof, Fla. Canned grapefruit. 266,654; Aug. 7. Class 46.
Foldaheme Manufacturing Company of California, San Francisco, Calif. Sectional camp cabins. 265,783; Aug. 7. Class 12.
Frankart Inc., New York, N. Y. Aquariums. 266,522; Aug. 7. Class 2.
Fuge Laboratories. (See Poulin, William J.)
Fun Method. (See Kohler & Chase.)
Garcia, Justo & Cia., Buenos Aires, Argentina. Lubricating oils and greases. 264,720; Aug. 7. Class 15.
Gardner, Leonard T., doing business as Lindico Oil Co., Baltimore, Md. Liquid fuel oils and lubricating oils. 265,376; Aug. 7. Class 15.
Garland, Augustus H., doing business as Bon Soir Bug Company, Opelousas, La. Insecticides. 265,268; Aug. 7. Class 6.
General Direktion der Österr, Tabakregie, Vienna, Austria. Chewing, smoking, snuffing tobaccos, etc. 265,632; Aug. 7. Class 17.
General-Direktion der Österr. Tabakregie, Vienna, Austria. Chewing, smoking, snuffing tobaccos, etc. 265,638; Aug. 7. Class 17.
Giles-Cummings Company, Inc., Boston, Mass. Butter. 265,789; Aug. 7. Class 46.
Girson, Phillip, doing business as Phillip Girson & Co., Chicago, Ill. Leather gloves. 258,708; Aug. 7. Class 39.
Glass, Henry, & Co., New York, N. Y. Cotton piece goods, etc. 268,692; Aug. 7. Class 42.
Goodman, Ike, New York, N. Y. Suits and overcoats. 267,119; Aug. 7. Class 39.
Goodrich Bakeries, Incorporated, Mount Vernon, N. Y. Pies. 264,880; Aug. 7. Class 46.
Goody Shop, The. (See Excellent-Goody Shop.)
Gordhamer, Harry A., doing business as Minnetonka Creamery Co., Minneapolis, Minn. Creamery butter. 267,951; Aug. 7. Class 46.
Gossard, H. W., Co., The, Chicago, Ill. Women's combination undergarments. 267,252; Aug. 7. Class 39.
Graham, Dr. N., & Co., Indian Head, Saskatchewan, and Chatham, Ontario, Canada. Medicinal compound. 263,464; Aug. 7. Class 6.
Grant, W. T., Company, Lynn, Mass., and New York, N. Y. Spark plugs. 267,414; Aug. 7. Class 21.
Griffis, Wm. F., doing business as X-It Laboratories, Cleveland, Ohio. Auto cleaner, wax paste auto polish, etc. 266,927; Aug. 7. Class 16.
Groves Shoe Company, Chicago, Ill. Women's novelty footwear. 266,245; Aug. 7. Class 39.
Grueby Faience and Tile Company, Boston, Mass., and Philadelphia, Pa. Pottery and faience. 268,094; Aug. 7. Class 33.
Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods. 268,691; Aug. 7. Class 42.
Hamburg Canning Company. (See Otoe Food Products Co.)
Hardy, John G., Limited, London, England. Cloths and stuffs of wool, worsted, etc. 264,756; Aug. 7. Class 42.
Hardy, Steven, New York, N. Y. Wood cleaning and polishing fluid. 266,930; Aug. 7. Class 16.
Henderson Lithographing Company, The, Norwood, Ohio. Tally cards. 267,416; Aug. 7. Class 37.
Hinds, A. S., Co., Bloomfield, N. J. Lotion for the skin and complexion. 262,849; Aug. 7. Class 6.
Hollander, Joseph, Inc., Newark, N. J. Dressed and dyed furs. 258,910; Aug. 7. Class 1.
Hollmann, Frank H., doing business as American Pigeon Journal Co., Warrenton, Mo. Periodical. 268,158; Aug. 7. Class 38.
Hopkins, J. L., & Co., New York, N. Y. Henna. 266,936; Aug. 7. Class 6.
Hornstein-Newman Company, Galion, Ohio. Overcoats and topcoats, coats, etc. 268,039; Aug. 7. Class 39.
Horton & Hubbard Mfg. Co., The, East Somerville, Mass. Suitcases. 268,284; Aug. 7. Class 3.
Houghton, E. F., & Co., Philadelphia, Pa. Lubricating oils. 265,382; Aug. 7. Class 15.
Housh Company, Inc., The, Boston, Mass. Albums. 266,427; Aug. 7. Class 37.
Houston Printing Company, Houston, Tex. Section of daily publication. 267,117; Aug. 7. Class 38.
Houston Printing Company, Houston, Tex. Heading for an annual section of a newspaper. 268,544; Aug. 7. Class 38.
Houston Printing Company, Houston, Tex. Heading for a newspaper column. 268,545; Aug. 7. Class 38.
Hoyle, Joshua, & Sons, Ltd. Inc., New York, N. Y. Wearing apparel. 259,909; Aug. 7. Class 39.
Hoyle, Joshua, & Sons, Ltd. Inc., New York, N. Y. Wearing apparel. 259,912–13; Aug. 7. Class 39.
Hubbuck, Thomas, & Son Limited, London, England. Linseed oil. 262,851; Aug. 7. Class 16.
Hudson Manufacturing Co., Minneapolis, Minn. Sprayers and spraying attachments. 267,122; Aug. 7. Class 23.
Hudson Manufacturing Co., Minneapolis, Minn. Sprayers and spraying attachments. 267,123; Aug. 7. Class 23.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main and Berlin, Germany. Writing and drawing inks. 266,196–7; Aug. 7. Class 11.
Independent Macaroni Co. Inc., doing business as Independent Macaroni M'f'g. Co., Mount Vernon, N. Y. Macaroni. 266,468; Aug. 7. Class 46.
Insulating Board Co. (See Millington, Arthur E.)
International Takamine Ferment Company, New York, N. Y. Koji, moyashi, diastase, etc. 254,673; Aug. 7. Class 6.
Jacobsen, Forbes Corporation, New York, N. Y. Magazine. 268,228; Aug. 7. Class 38.
James Manufacturing Company, Fort Atkinson, Wis. Metal gutter and manger grains, metal gates, etc. 256,193; Aug. 7. Class 13.
James Manufacturing Company, Fort Atkinson, Wis. Name plates and poultry equipment. 267,053; Aug. 7. Class 50.
James Manufacturing Company, Fort Atkinson, Wis. Steel supporting columns, metal window, etc. 267,054; Aug. 7. Class 12.
Janov-Abeles, I., Shirt Co., New York, N. Y. Men's dress and negligee shirts. 267,057; Aug. 7. Class 39.
Jewel Tea Co., Inc., Chicago, Ill. Coffee. 268,614; Aug. 7. Class 46.
Jones, Marion R., Framingham, Mass. Dresses. 268,099; Aug. 7. Class 39.
Jordeau, Jean, Inc., South Orange, N. J., and New York, N. Y. Razors. 261,229; Aug. 7. Class 23.
Juniormode Shoe Corporation, New York, N. Y. Shoes, slippers, etc. 255,308–9; Aug. 7. Class 39.
Kalon, Incorporated, Troy, N. Y. Dress, negligee, and work shirts. 267,260; Aug. 7. Class 39.
Kay Laboratories, Inc., West Nyack, N. Y. Chemical product for denaturing alcohol. 267,060–1; Aug. 7. Class 6.
Keenan, M. A., & Sons, New London, Conn. Malt extract for medicinal use. 267,362; Aug. 7. Class 6.
Kelley-Clarke Co., Seattle, Wash. Canned fish. 268,615; Aug. 7. Class 46.

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Kelley-Clarke Co., Seattle, Wash. Canned fish. 268,789–91; Aug. 7. Class 46.
Kemitex Products Company, The, Akron, Ohio. Trunks, traveling bags, etc. 240,861; Aug. 7. Class 3.
Kentucky Nip Corporation, New York, N. Y. Beverage. 266,430–1; Aug. 7. Class 45.
Kentucky Vegetable Growers Association, Inc., Louisville, Ky. Fresh vegetables. 263,767; Aug. 7. Class 46.
Knit Goods Specialty Company. (See Flint, Frank C.)
Knox Varnish Company, Boston, Mass. Paint enamels and varnishes. 267,968; Aug. 7. Class 16.
Kohler & Chase, doing business as Fun Method, San Francisco, Calif. Music charts and music books. 265,277; Aug. 7. Class 38.
Korite, Inc., Boston, Mass. Leather preservative. 264,725; Aug. 7. Class 4.
Kovach, Benedict, doing business as Benedict Company, Los Angeles, Calif. Ointments. 267,262; Aug. 7. Class 6.
Kraft-Phenix Cheese Company, Chicago, Ill. Powdered whey solid. 268,616; Aug. 7. Class 46.
Kreider, A. S., Shoe Manufacturing Co., Elizabethtown, Pa. Leather shoes. 262,093; Aug. 7. Class 39.
Kroger Grocery and Baking Co., The, Cincinnati, Ohio. Spiced boneless pig's feet and pickled spiced tongue. 266,033; Aug. 7. Class 46.
Lachin, Victor, doing business as Architectural Cast Stone Co., New Orleans, La. Artificial building stone. 267,428; Aug. 7. Class 12.
Lallafleur, Inc., New York, N. Y. Hand lotion. 267,711; Aug. 7. Class 6.
Lake Charles Rice Milling Company of Louisiana, Inc., Lake Charles, La. Rice. 268,502; Aug. 7. Class 46.
Lane, Ruby, Inc., New York, N. Y. Curtains, table linens, etc. 267,669; Aug. 7. Class 42.
Leggo, Arthur Victor, and Ernest Barton Hack, Melbourne, Victoria, Australia. Bituminous materials. 256,527; Aug. 7. Class 12.
Leonard, Victor, St. Petersburg, Fla. Cartoons. 268,164; Aug. 7. Class 38.
Libby, McNeill & Libby, Chicago, Ill. Bouillon cubes, beef extract, canned beef, etc. 254,854; Aug. 7. Class 46.
Lillybrook Coal Company, Sullivan and Beckley, W. Va. Bituminous coal. 262,664; Aug. 7. Class 1.
Lindico Oil Co. (See Gardner, Leonard T.)
Livermore, Miles F., Brazil, Ind. Peanut butter. 268,454; Aug. 7. Class 46.
Lucier, Celia A., Chicago, Ill. Cleaning compound. 268,046; Aug. 7. Class 4.
Lupton's, David, Sons Company, Philadelphia, Pa. Rivets. 267,432–3; Aug. 7. Class 13.
Lyon Metallic Manufacturing Company, Aurora, Ill. Metal tables, filing cabinets, desks, etc. 254,083; Aug. 7. Class 32.
Macfadden Publications Incorporated, New York, N. Y. Magazine. 267,980; Aug. 7. Class 38.
Manning, Bowman & Co., Meriden, Conn. Knife handles, forks, and spoons. 268,231; Aug. 7. Class 23.
Manufacture Francaise de Tapis et Couvertures, Beauvais, France. Coverlets, tapestries, bed rugs, etc. 263,327; Aug. 7. Class 42.
Marne Hat Manufacturing Company, The, Newark, N. J. Men's hats. 262,236; Aug. 7. Class 39.
Marshall Field & Company, Chicago, Ill. Toys, toy blocks, bows and arrows, etc. 264,676; Aug. 7. Class 22.
Marshall Field & Company, Chicago, Ill. Silk hosiery. 267,943; Aug. 7. Class 39.
Marshall & Stearns Co., San Francisco, Calif. Beds, couches, and davenports. 268,740; Aug. 7. Class 32.
Martin Brothers Company, Minneapolis, Minn. One-piece outer garments. 266,385; Aug. 7. Class 39.
Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Candy. 267,308; Aug. 7. Class 46.
Massachusetts Knitting Mills, Boston, Mass. Hosiery. 267,983; Aug. 7. Class 39.
Mayers, Mollie, Inc., New York, N. Y. Corsets, brassières, and corsetlike undergarments. 268,108; Aug. 7. Class 39.
McCarty, Mrs. Esther L., doing business as McCarty Medicine Company, New Orleans, La. Tonic for constipation, etc. 260,742; Aug. 7. Class 6.
Meeker Sugar Refining Company, Chicago, Ill., and Meeker, La. Sugar-cane food syrup. 265,489; Aug. 7. Class 46.
Mehmken Oil Co., Burlington, Iowa. Gasoline. 254,467; Aug. 7. Class 15.
Merchandising Publishing Corporation, St. Louis, Mo.; Chicago, Ill.; and New York, N. Y. Periodical. 267,661; Aug. 7. Class 38.
Midway Chemical Company, Chicago, Ill. Household disinfectant. 254,411; Aug. 7. Class 6.
Midway Chemical Company, Chicago, Ill. Furniture polish, liquid wax, etc. 254,412; Aug. 7. Class 16.
Miller, Albert, & Company, Chicago, Ill. Fresh potatoes. 266,010; Aug. 7. Class 46.
Millington, Arthur E., doing business as Insulating Board Co., Portland, Oreg. Composition wood-fibre board. 267,372; Aug. 7. Class 12.
Minnetonka Creamery Co. (See Gordhamer, Harry A.)
Mohawk-Merrill Tire Company, Inc., St. Louis, Mo. Portable automobile tire and tube repair kits. 261,202; Aug. 7. Class 35.
Montagna, Humbert F., doing business as Bert's Laboratory, Los Angeles, Calif. Foot balsam. 261,640; Aug. 7. Class 6.
Montague Rod and Reel Company, Montague City, Mass. Fishing rods. 260,832; Aug. 7. Class 22.
Moore, Edward J., Sons, Inc., doing business as Sanger & Co., Long Island City, N. Y. Antiseptic douche. 266,872; Aug. 7. Class 6.
Morrill & Sturgeon Lumber Company, Portland, Oreg. Doors, lumber, and plywood, etc. 265,282; Aug. 7. Class 12.
Morris, Preston, Escalon, Calif. Fresh grapes. 255,818; Aug. 7. Class 46.
Motor Boat Publishing Company, The, New York, N. Y. Semimonthly periodical. 264,732; Aug. 7. Class 38.
Mountain View Fruit Association, Upland, Calif. Fresh citrous fruits. 255,665; Aug. 7. Class 46.
Mülhens, Paul P., doing business as Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Soaps. 242,107; Aug. 7. Class 4.
Neale, Inc., Los Angeles, Calif. Signs. 263,223; Aug. 7. Class 21.
Neva-Clog Products, Inc., Bridgeport, Conn. Stapling machines and attachments. 268,054; Aug. 7. Class 23.
Noma Electric Corporation, New York, N. Y. Lighting outfits, decorative devices. 266,394; Aug. 7. Class 21.
Norris Grain Company, Chicago, Ill. Oats. 255,860; Aug. 7. Class 46.
North Western Expanded Metal Company, Chicago, Ill. Metal lath. 263,663; Aug. 7. Class 12.
Occy-Crystine Corporation, New York, N. Y. Proprietary medicine and a saline cathartic. 265,287; Aug. 7. Class 6.
Oster Manufacturing Company, The, Cleveland, Ohio. Thread-cutting tools, machines, etc. 268,111; Aug. 7. Class 23.
Otoe Food Products Co., also doing business as Hamburg Canning Company, Nebraska City, Nebr. Canned vegetables. 267,787; Aug. 7. Class 46.
Out West Manufacturing Co., Denver, Colo. Nonmetallic compound for stopping leaks in automobile radiators. 247,630; Aug. 7. Class 6.
Pale Moon Company of America, Philadelphia, Pa. Beverages and syrup for making the same. 266,265; Aug. 7. Class 45.
Pandora Products Co. (See Porter, Hannah A.)
Paris Comet, Inc., New York, N. Y. Magazines. 268,462; Aug. 7. Class 38.
Patent Button Company, The, Waterbury, Conn. Buttons of nonprecious metal. 267,507; Aug. 7. Class 40.
Pendleton Woolen Mills, Portland, Oreg. Woolen blankets. 267,794; Aug. 7. Class 42.
Penn Leather Co., Philadelphia, Pa. Leather soles, taps, tap or half soles. 258,284; Aug. 7. Class 39.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Sweaters, sweater coats, and hosiery. 267,272; Aug. 7. Class 39.
Pennzoil Company, The, Los Angeles, Calif. Motor fuel oils and lubricant oils and greases. 265,065; Aug. 7. Class 15.
Petchelis, Stephen M., doing business as Splendid Chemical Products Manufacturing Co., New York, N. Y. Silver polish, shoe polish, shoe cream, etc. 263,970; Aug. 7. Class 4.
Peterson, Mrs. L. M., & Co., Inc., New York and Brooklyn, N. Y. Biscuits, crackers, or wafers. 231,563–4; Aug. 7. Class 46.
Pettifer, James A., Seattle, Wash. Tooth powder. 256,301; Aug. 7. Class 6.
Pie Bakeries of America, Inc., Newark, N. J. Pies. 229,982; Aug. 7. Class 46.
Pittsburgh Coal Company, Pittsburgh, Pa. Coal. 267,207; Aug. 7. Class 1.
Plex Dry Stencil Corporation, The, New York, N. Y. Dry stencils. 267,509; Aug. 7. Class 37.
Porcelain Products, Inc., Findlay, Ohio. Porcelain articles used for insulating purposes. 258,286; Aug. 7. Class 21.
Porcelain Products, Inc., Findlay, Ohio. Porcelain ware, crockery. 258,287; Aug. 7. Class 30.
Porter, Hannah A., doing business as Pandora Products Co., East Fitchburg, Mass. Cleaner for bathtubs, lavatories, etc. 267,314; Aug. 7. Class 4.
Porto Rican Undergarment Co. (See Radinsky, Abraham.)
Poulin, William J., doing business as Fuge Laboratories, Union City, N. J. Powder for use as a prophylactic, antiseptic, and deodorant. 266,880; Aug. 7. Class 6.

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Power Plant Economy Co., St. Louis, Mo. Baffle mix. 267,454; Aug. 7. Class 12.
Pratt-Mallory Company, Sioux City, Iowa. Brooms. 267,458; Aug. 7. Class 29.
Pratt-Mallory Company, Sioux City, Iowa. Toothpicks. 267,459; Aug. 7. Class 44.
Primrose House, Inc., Dover, Del., and New York, N. Y. Face creams, lotions, astringents, etc. 264,845; Aug. 7. Class 6.
Procter & Gamble Company, The, Cincinnati, Ohio. Soap. 265,929; Aug. 7. Class 4.
Q R S Company, The, Chicago, Ill. Phonographs. 266,618; Aug. 7. Class 36.
Quaker Fresh Fish Fillet Co. (See Bedner, Harry I.)
Quaker Oil Company, Inc., Plainfield, Ind. Motor-lubricating oil. 267,996; Aug. 7. Class 15.
Radinsky, Abraham, doing business as Porto Rican Undergarment Co., New York, N. Y. Underwear. 267,315; Aug. 7. Class 39.
Re-Bo Company, Inc., The, Syracuse, N. Y. Demountable bodies for hand trucks. 266,752; Aug. 7. Class 19.
Red Spot Paint & Varnish Co., also doing business as Evansville Paint & Varnish Co., Evansville, Ind. Plastic roof cement, furnace cement. 267,801; Aug. 7. Class 12.
Reichardt Cocoa & Chocolate Co., Inc., New York, N. Y., and New Brunswick, N. J. Concentrated cocoa food. 267,390; Aug. 7. Class 46.
Reliable Products Co., Chicago, Ill. Shampoo oil. 265,564; Aug. 7. Class 6.
Revere Electric Co., Chicago, Ill. Electrical supplies. 266,148; Aug. 7. Class 21.
Rice-Stix Dry Goods Co., St. Louis, Mo. Men's, youths' and boys' wearing apparel. 264,384; Aug. 7. Class 39.
Richter F. Ad., & Co., of New York, Brooklyn, N. Y. Hair tonic. 268,309; Aug. 7. Class 6.
Richter, F. Ad., & Co., of New York, Brooklyn, N. Y. Balsam. 268,311; Aug. 7. Class 6.
Ridenour-Baker Grocery Company, Kansas City, Mo. Canned fruits, vinegar, canned vegetables, etc. 262,971; Aug. 7. Class 46.
Roland, Bernard S., New York, N. Y. Pajamas. 249,023; Aug. 7. Class 39.
Rosen-Brandt, Inc., New York, N. Y. Ladies' hats. 267,512; Aug. 7. Class 39.
Roubaix Mills, Inc., New York, N. Y. Piece goods made of wool. 267,319; Aug. 7. Class 42.
Royal Blue Hosiery Co. (See Berkowitz, Sam.)
Sanger & Co. (See Moore, Edward J., Sons, Inc.)
Säureschutz-Gesellschaft m. b. H., Berlin-Alt-Glienicke, Germany. Centrifuges, extractors, aspirators, etc. 266,889; Aug. 7. Class 23.
Scherrer, Marcel, Courbevoie, France. Tools. 258,138; Aug. 7. Class 23.
Schoeneman, J., Inc., Baltimore, Md. Coats, vests, trousers, etc. 265,455; Aug. 7. Class 39.
Scull, E. H., Company, Chicago, Ill., and New York, N. Y. Periodical publication. 268,174; Aug. 7. Class 38.
Scully Bros. Inc., Los Angeles, Calif. Aviator's helmets. 266,760; Aug. 7. Class 39.
Sharland, Ernest W., doing business as Dromore Kennels Reg., Baltimore, Md. Dog medicines. 266,560; Aug. 7. Class 6.
Shekter, Jacob J., doing business as Beaver Produce Company, Portland, Oreg. Butter and eggs. 265,578; Aug. 7. Class 46.
Sherrod Shirt Company, High Point, N. C. Work shirts. 267,393; Aug. 7. Class 39.
Shoecraft Shop, Inc., New York, N. Y. Arch supports. 265,992; Aug. 7. Class 44.
Shulman, Nathan, Baltimore, Md. Caps for men and boys. 261,395; Aug. 7. Class 39.
Sigmund, Franz, Stuttgart, Germany. Hair tonic and preparation for treating the hair and scalp. 263,972–3; Aug. 7. Class 6.
Silbernagel & Company, Pine Bluff, Ark. Hen feed, mincemeat, rolled oats, etc. 257,817; Aug. 7. Class 46.
Sipes, Jasper, Co., Oklahoma City, Okla. Notebooks, tablets, loose-leaf binders, etc. 252,263; Aug. 7. Class 37.
Slater, C. B., Company, South Braintree, Mass. Boots and shoes. 266,893; Aug. 7. Class 39.
Slater's Globe Carpet & Linoleum Co., Inc., Paterson, N. J. Linoleum and oiled cloth. 266,442; Aug. 7. Class 20.
Smith, Albert D., & Co., New York, N. Y. Cotton piece goods and shade cloth. 268,974; Aug. 7. Class 42.
Smith, B. W., Drug & Product Laboratories, Inc., New Augusta, Miss. Aloes, oxalic acid, aspirin tablets, etc. 257,708; Aug. 7. Class 6.
Speedaumat Addressing Machinery, Incorporated, Chicago, Ill. List filing cabinets, cabinet sections, and stands. 266,053; Aug. 7. Class 32.
Spinharney, Charles, Scotia, Wash. Hog-conditioner germicide. 265,346; Aug. 7. Class 6.
Splendid Chemical Products Manufacturing Co. (See Petchells, Stephen M.)
Stadium Underwear Company, Inc., Baltimore, Md. Athletic underwear, nightshirts, and pajamas. 266,338; Aug. 7. Class 39.
Standard Card Clothing Company, The, Stafford Springs, Conn. Card clothing and hand cards. 267,614; Aug. 7. Class 23.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Lubricating oils. 255,079; Aug. 7. Class 15.
Stege, G. H., Jr. Co. Inc., New York, N. Y. Cotton goods in the piece. 237,990; Aug. 7. Class 42.
Sterli Manufacturing Company, Omaha, Nebr. Embalming fluid. 267,673; Aug. 7. Class 6.
Sterling Products (Incorporated), Wheeling, W. Va. Laxative compound. 266,407; Aug. 7. Class 6.
Stone, Samuel H., doing business as Stone Malt Company, Columbus, Ohio. Malt syrups. 267,324; Aug. 7. Class 46.
Stoody Company, Whittier, Calif. Monthly publication. 266,154; Aug. 7. Class 38.
Stranger, Reginald J., doing business as Strangers Ltd., Southampton, England. Beverages. 262,975; Aug. 7. Class 45.
Super Novelty Company, assignor to Super Novelty Company, Inc., New York, N. Y. Portable vacuum-cup brackets for hangers, mirrors, and shelves. 260,054; Aug. 7. Class 13.
Superior Hat Co., St. Louis, Mo. Hats. 268,004; Aug. 7. Class 39.
Swanson, George O., Cleveland, Ohio. Daily comic strip in newspapers and periodicals. 268,403; Aug. 7. Class 38.
Sweeney, James A., Providence, R. I. Eyeglasses and spectacles and the constituent parts of eyeglasses and spectacles. 266,226; Aug. 7. Class 26.
Tesman, Jacob, Philadelphia, Pa. Liniment. 265,589; Aug. 7. Class 6.
Thomas Agency, The, Chicago, Ill. Golf balls. 267,811; Aug. 7. Class 22.
Thoroughbred Record Company, The, Lexington, Ky. Weekly journal. 268,471; Aug. 7. Class 38.
Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Lubricating oils and greases, gasoline, etc. 266,842; Aug. 7. Class 15.
Tucker Duck and Rubber Company, Fort Smith, Ark. Folding chairs. 260,600; Aug. 7. Class 32.
Tyson Shirt Co., Norristown, Pa. Shirts, pajamas, nightshirts, etc. 266,333; Aug. 7. Class 39.
Union Tank & Pipe Co., Los Angeles, Calif. Storage tanks, metal drums, and water towers. 247,504; Aug. 7. Class 2.
United Grape Products, Inc., Buffalo, N. Y. Grape juice. 263,995; Aug. 7. Class 45.
United States Foil Co., Louisville, Ky. Metallic sheet material. 268,067; Aug. 7. Class 14.
Upjohn Company, The, Kalamazoo, Mich. Ointment. 268,258; Aug. 7. Class 6.
Utilities Corporation of Maryland, Washington, D. C. Dishwashing appliance. 268,068; Aug. 7. Class 23.
Valentine Laboratories, Incorporated. (See Walgreen Co.)
Viking Tool and Machine Co., Inc., The, Brooklyn, N. Y. Dies, jigs, wire-bundling machines, etc. 253,968; Aug. 7. Class 23.
Vinick, Nell, New York, N. Y. Magazine articles. 263,241; Aug. 7. Class 38.
Virginia Dare Extract Company, Inc., Brooklyn, N. Y. Educational advertisements. 262,537; Aug. 7. Class 38.
Voneiff-Drayer Co., Baltimore, Md. Candy. 268,656; Aug. 7. Class 46.
Vulcan Match Co., Inc., New York, N. Y. Safety matches. 268,757; Aug. 7. Class 9.
Wadsworth, Howland & Co. Incorporated, Boston, Mass. Varnishes and paint enamels. 268,069; Aug. 7. Class 16.
Walcal Laboratories, Inc. (See Calajoe, Anthony J.)
Walgreen Co., also doing business as Valentine Laboratories, Incorporated, Chicago, Ill. Fluid for cigarette lighters. 267,019; Aug. 7. Class 6.
Wampole, Henry K., and Company, Incorporated, Philadelphia, Pa. Cough mixture. 267,021; Aug. 7. Class 6.
Wampole, Henry K., and Company, Incorporated, Philadelphia, Pa. Nontoxic antiseptic solution. 268,404; Aug. 7. Class 6.
Waterman, L. E., Company, New York, N. Y. Writing inks. 267,909–13; Aug. 7. Class 11.
Western Door Manufacturers Association, Tacoma, Wash. Wooden doors. 263,449; Aug. 7. Class 12.
Wheeling Steel Corporation, Wheeling, W. Va. Black and galvanized steel sheets. 264,741; Aug. 7. Class 14.
Widenmann, Hans A., New York, N. Y. Cigarette and cigar holders and pipes. 268,763; Aug. 7. Class 8.
Wieland, A. Robert, Auerbach, near Chemnitz, Germany. Woven and knitted fabrics. 261,543; Aug. 7. Class 42.
Willard, Colbert & Giles, New York, N. Y. Silk piece goods. 268,724; Aug. 7. Class 42.

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Wilson, Boston, doing business as Wilson's Stomach Powder Manufacturing Co., Oklahoma City, Okla. Stomach powder. 257,496; Aug. 7. Class 6.
Wilson-Western Sporting Goods Company, Chicago, Ill. Golf clubs. 269,011–12; Aug. 7. Class 22.
Windram Manufacturing Co., South Boston, Mass. Piece goods of cotton, silk, wool, etc. 266,503; Aug. 7. Class 42.
Winsten, Jules N., doing business as Drive-O-Meter Company, New York, N. Y. Game device for the game of golf. 267,623; Aug. 7. Class 22.
Woolnough, F. W., Co., Inc., Brooklyn, N. Y. Toy dogs. 268,128; Aug. 7. Class 22.
X-It Laboratories. (See Griffis, W. F.)
Zulu Toy Manufacturing Company, Inc., Battle Creek, Mich. Board game. 266,634; Aug. 7. Class 22.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 4.

Cleaning preparations, Dry. Toledo Rex Spray Company. 245,161; Aug. 7; Serial No. 264,060; published May 29, 1928.
Cloths, A. L. Soward. 245,227; Aug. 7; Serial No. 263,181; published May 29, 1928.
Compound, Liquid dry-cleansing. R. B. Chemical Company. 245,231; Aug. 7; Serial No. 262,576; published May 22, 1928.
Compounds, Soluble chemical. Cowles Detergent Com- 245,154; Aug. 7; Serial No. 260,376; published May 29, 1928.
Compounds, Soluble chemical. Cowles Detergent Company. 245,244; Aug. 7; Serial No. 261,045; published May 29, 1928.
Cream, Shaving. C. M. Gillman. 245,230; Aug. 7; Serial No. 262,604; published May 15, 1928.
Dressing, Auto top. Black Duck Products, Inc. 245,253; Aug. 7; Serial No. 251,296; published May 29, 1928.
Liquid and belt-gripper liquid, Waterproof brake. Flash Laboratories, Inc. 245,141; Aug. 7; Serial No. 256,815; published May 15, 1928.
Pads of steel wool, Cleaning. M. Levine. 245,164; Aug. 7; Serial No. 263,875; published May 29, 1928.
Polishes, dressings, and cleaners, Shoe. Geo. J. Kelly, Inc. 245,158; Aug. 7; Serial No. 264,238; published May 29, 1928.
Preparation, Dry-cleaning. Allen Silbar. 245,226; Aug. 7; Serial No. 263,438; published May 15, 1928.
Preservatives, Shoe-sole. F. W. Niles. 245,163; Aug. 7; Serial No. 263,884; published May 29, 1928.
Soap and soap chips. Allen B. Wrisley Company. 245,289; Aug. 7; Serial No. 246,190; published May 15, 1928.
Soap, Liquid. Vestal Chemical Co. 245,239; Aug. 7; Serial No. 261,469; published Apr. 3, 1928.
Washing and cleaning compounds. F. Wilkes. 245,229; Aug. 7; Serial No. 262,833; published May 22, 1928.

CLASS 6.

Antiseptic, germicide, deodorant, and astringent. E. A. Runde. 245,061; Aug. 7; Serial No. 259,082; published May 29, 1928.
Astringents, astringent cerates, bleach creams, etc. Carlova, Inc. 245,029; Aug. 7; Serial No. 264,080; published May 29, 1928.
Astringents, bleach creams, etc. A. Kairy. 245,264; Aug. 7; Serial No. 264,991; published May 29, 1928.
Cleansing and astringent lotions. Loya Laboratories. 245,130; Aug. 7; Serial No. 263,325; published May 29, 1928.
Compound for mentholating cigarettes. P. N. Tarbox. 245,268; Aug. 7; Serial No. 264,925; published May 29, 1928.
Deodorant. Hollander Bros. Drug Co. 245,088; Aug. 7; Serial No. 251,138; published Aug. 16, 1927.
Deodorant and foot preparation. Clayton & Young. 245,189; Aug. 7; Serial No. 262,700; published May 29, 1928.
Insecticides. F. E. Jacobi. 245,194; Aug. 7; Serial No. 262,578; published May 29, 1928.
Liniment. P. L. Mavrelis. 245,034; Aug. 7; Serial No. 264,034; published May 29, 1928.
Medical preparations. Soc.ta Prod.ti Chim.co Farmac.ci A. Bertelli & Co. 69,739; renewed June 30, 1928.
Medicated plasters. Soc.ta Prod.ti Chim.co Farmac.ci A. Bertelli & C. 69,497; renewed June 16, 1928.
Nonfreezing fluid for automobile radiators. Nourse Oil Company. 245,031; Aug. 7; Serial No. 265,061; published May 29, 1928.
Perfumes. Soc.ta Prod.ti Chim.co Farmac.ci A. Bertelli & C. 69,269; renewed June 2, 1928.
Perfumes, toilet waters, facial creams, and skin lotions. A. E. Glickman. 245,089; Aug. 7; Serial No. 250,122; published Aug. 9, 1927.
Plating solution. Nusilver Products Co. 245,336; Aug. 7.
Preparation for destroying lice. E. D. Cook. 245,114; Aug. 7; Serial No. 264,017; published May 29, 1928.
Preparation for use in the treatment of coughs, colds, etc. Holmes & Holmes. 245,016; Aug. 7; Serial No. 264,986; published May 29, 1928.
Preparations. Sun Shine Laboratories. 245,199; Aug. 7; Serial No. 262,336; published May 29, 1928.
Senna leaves, henna leaves, etc. Sudan American Produce Co. Inc. 245,060; Aug. 7; Serial No. 259,145; published May 29, 1928.
Shampoo. Midland Chemical Laboratories, Inc. 245,206; Aug. 7; Serial No. 261,375; published May 29, 1928.
Sizing. M. Feigel & Bro., Inc. 245,313; Aug. 7.
Toilet water, perfumes, powder, creams, and lotions. Milson Company. 245,201; Aug. 7; Serial No. 262,111; published Apr. 24, 1928.

CLASS 7.

Rope and cable, Manila. Edwin H. Fitler Company. 245,091; Aug. 7; Serial No. 263,544; published May 22, 1928.

CLASS 9.

Dynamite. Hercules Powder Company. 245,305; Aug. 7; Serial No. 264,305; published May 29, 1928.
Rifles, machine guns, and pistols. Ceskoslovenska Zbrojovka Akciova Spolecnost v. Brne. 245,178; Aug. 7; Serial No. 261,420; published May 29, 1928.

CLASS 10.

Fertilizer. I. McEwen. 245,308; Aug. 7; Serial No. 264,115; published May 29, 1928.
Fertilizers. A. H. Case and Co. 245,273; Aug. 7; Serial No. 262,553; published May 29, 1928.
Manure, Pulverized animal. Bachrodt & Company. 245,182; Aug. 7; Serial No. 261,162; published May 29, 1928.

CLASS 11.

Inks. S. Parlette. 245,334; Aug. 7.

CLASS 13.

Fasteners, Slider-controlled. North & Judd Manufacturing Company. 245,274; Aug. 7; Serial No. 262,525; published May 29, 1928.
Griddles, Pancake. Marine City Motor Casting Company. 245,113; Aug. 7; Serial No. 263,771; published May 29, 1928.
Hardware. Winsted Hardware Manufacturing Co. 245,171; Aug. 7; Serial No. 261,688; published May 29, 1928.
Metal pipe. Wheeling Steel Corporation. 245,301; Aug. 7; Serial No. 264,622; published May 29, 1928.
Nozzles and lawn sprinklers, Hose. Clark Manufacturing Company. 245,302; Aug. 7; Serial No. 264,563; published May 29, 1928.
Pans, Base-metal pie and cake. Edward Katzinger Company. 245,277; Aug. 7; Serial No. 262,310; published May 29, 1928.
Valves for use on barrels and the like, Cast-iron. Steel Drum Accessories Corporation. 245,080; Aug. 7; Serial No. 256,585; published May 29, 1928.

CLASS 15.

Oils, Lubricating. C. Studna. 245,279; Aug. 7; Serial No. 249,491; published Oct. 4, 1927.

CLASS 16.

Paints, metal paints, etc., Oil. J. C. Carroll. 245,057; Aug. 7; Serial No. 260,318; published May 29, 1928.
Paints, varnishes, and paint enamels, Flat wall. Amalgamated Paint Company. 245,325; Aug. 7.
Paints, varnishes, etc. Amalgamated Paint Company. 245,329; Aug. 7.
Polish, Furniture. Magnet Polish Co. 245,192; Aug. 7; Serial No. 262,666; published May 29, 1928.
Polish, Liquid. Drew & Zabriskie. 245,051; Aug. 7; Serial No. 260,559; published May 29, 1928.

CLASS 17.

Cigarettes. Cowle & Company. 245,207; Aug. 7; Serial No. 261,355; published May 29, 1928.
Cigars. Italian Cigar and Tobacco Co. Incorporated. 245,197; Aug. 7; Serial No. 262,362; published May 29, 1928.
Cigars and cigarettes. Joran Tobacco Company. 245,026; Aug. 7; Serial No. 264,236; published May 29, 1928.

CLASS 19.

Automobiles and motor-driven trucks, and constructive parts thereof. General Motors Corporation. 245,099; Aug. 7; Serial No. 263,001; published May 29, 1928.

CLASS 21.

Electric flood and spot lights. D. A. Garey. 245,282; Aug. 7; Serial No. 244,228; published Aug. 2, 1927.
Projection machines. Motion-picture-. International Projector Corporation. 245,322; Aug. 7.
Radio receiving, detecting, and transmitting sets and parts thereof, crystal receiving sets, etc. Columbia Phonograph Company. 245,345; Aug. 7.
Radio receiving sets, parts thereof, and loud speakers. Sparks-Withington Company. 245,218; Aug. 7; Serial No. 231,016; published Oct. 11, 1927.

CLASS 22.

Balls, rubber inflated toys, and rubber dolls, Hollow rubber. Miller Rubber Company. 245,191; Aug. 7; Serial No. 262,673; published May 22, 1928.
Card game, Letter. A. A. Rosborough. 245,068; Aug. 7; Serial No. 256,089; published May 22, 1928.
Christmas-tree ornaments. P. Boehland. 245,195; Aug. 7; Serial No. 262,505; published May 29, 1928.
Game. G. A. Terry. 245,116; Aug. 7; Serial No. 263,900; published May 29, 1928.
Games. Parker Brothers, Inc. 245,200; Aug. 7; Serial No. 262,116; published May 22, 1928.
Golf balls. Cunningham Drug Stores, Inc. 245,331; Aug. 7.
Golf balls. A. Albright, jr. 245,332; Aug. 7.
Golf irons and clubs. Wimbar, Inc. 245,121; Aug. 7; Serial No. 263,806; published May 29, 1928.
Skates. A. G. Spalding & Bro. 245,115; Aug. 7; Serial No. 263,980; published May 29, 1928.
Table game played with pieces. C. B. Kamerzink. 245,063; Aug. 7; Serial No. 258,816; published May 22, 1928.
Toys. Hubley Manufacturing Company. 245,341; Aug. 7.
Trees, Artificial Christmas. M. Harris. 245,198; Aug. 7; Serial No. 262,358; published May 22, 1928.
Tricks and apparatus for producing illusions and escapes, Cigarette, egg, dice, etc. Modern Magic Co. Inc. 245,281; Aug. 7; Serial No. 249,284; published May 29, 1928.
Wheeled goods. Lewis E. Myers & Company. 245,072–4; Aug. 7; Serial Nos. 255,190–2; published May 29, 1928.
Wheeled goods. Lewis E. Myers & Company. 245,075; Aug. 7; Serial No. 255,187; published May 29, 1928.

CLASS 23.

Apparatus for mechanical handling of bulk and packaged materials and constructive parts. Mechanical Handling Systems, Incorporated. 245,122; Aug. 7; Serial No. 263,773; published May 29, 1928.
Compressors, pumps, clay spades, rock drills, etc., Air. Metalweld, Incorporated. 245,117; Aug. 7; Serial No. 263,880; published May 29, 1928.
Compressors, pumps, special tools, etc., Air. Metalweld, Incorporated. 245,118; Aug. 7; Serial No. 263,879; published May 29, 1928.
Cranes, machine tools, engine lathes, boring mills, etc., Electric. Shaw Crane-Putnam Machine Co. Inc. 245,131; Aug. 7; Serial No. 263,016; published May 29, 1928.
Engines and their parts, motors, vacuum pumps, etc., Steam. R. Laraque. 245,208; Aug. 7; Serial No. 261,266; published May 29, 1928.
Loom pickers, dobby cords or harness straps, check straps, etc. K. A. Stocker. 245,064; Aug. 7; Serial No. 258,704; published May 29, 1928.
Machines for removing grease, dirt, paint, etc., from any article or structure. Tridex Equipment Company Inc. 245,017; Aug. 7; Serial No. 264,926; published May 29, 1928.
Machines for setting glaziers' points. Hubbard & McClary. 245,035; Aug. 7; Serial No. 264,030; published May 29, 1928.
Textile machines. Whitin Machine Works. 245,205; Aug. 7; Serial No. 261,852; published May 29, 1928.
Water systems, Fresh-. National Utilities Corporation. 245,203; Aug. 7; Serial No. 261,979; published May 29, 1928.

CLASS 26.

Camera tripods. B. Brooks. 245,030; Aug. 7; Serial No. 264,072; published May 29, 1928.
Measuring cups, Domestic. Edward Katzinger Company. 245,021; Aug. 7; Serial No. 264,570; published May 29, 1928.
Meters, voltmeters, flue-gas testers, etc., Current. Siemens-Schuckertwerke Aktiengesellschaft. 245,065; Aug. 7; Serial No. 258,556; published May 29, 1928.
Meters, voltmeters, flue-gas testers, etc., Current. Siemens-Schuckertwerke Aktiengesellschaft. 245,069; Aug. 7; Serial No. 255,936; published May 29, 1928.

CLASS 27.

Clocks and watches. New Haven Clock Co. 245,340; Aug. 7.
Watches and watchcases. Davis & Lowe Company. 245,120; Aug. 7; Serial No. 263,813; published May 29, 1928.

CLASS 31.

Ice-cream cabinets. Iceless Cooler Corporation. 245,228; Aug. 7; Serial No. 262,962; published May 29, 1928.
Refrigerators. Tennessee Furniture Corporation. 245,162; Aug. 7; Serial No. 264,058; published May 29, 1928.

CLASS 32.

Bed springs. Cleveland Metal Bed Co. 245,022–5; Aug. 7; Serial Nos. 264,352–5; published May 29, 1928.
Display fixtures, etc., Neckwear-. Torrington Specialty Co. 245,055; Aug. 7; Serial No. 260,475; published May 29, 1928.
Furniture. Hartman Furniture and Carpet Co. 245,020; Aug. 7; Serial No. 264,579; published May 29, 1928.
Mattresses, springs, etc. Ellison Furniture & Carpet Co. 245,071; Aug. 7; Serial No. 255,499; published May 29, 1928.
Mirrors. W. P. Fuller & Co. 245,261; Aug. 7; Serial No. 265,041; published May 29, 1928.
Radiator covers. Radiant Steel Products Co. 245,204; Aug. 7; Serial No. 261,907; published May 29, 1928.

CLASS 34.

Boilers, Copper range. M. Hugo. 245,179; Aug. 7; Serial No. 261,318; published May 29, 1928.
Furnaces, Warm-air heating. American Foundry & Furnace Company. 245,339; Aug. 7.
Heat-tempering attachment for poultry-house stoves. James Manufacturing Company. 245,067; Aug. 7; Serial No. 256,194; published May 29, 1928.

CLASS 35.

Belting, Leather. Detroit Oak Belting Company. 245,269; Aug. 7; Serial No. 264,873; published May 29, 1928.
Tires and tubes, Automobile. Cooper Corporation. 245,018; Aug. 7; Serial No. 264,811; published May 29, 1928.
Tires, Automobile. Ajax Rubber Company. 245,027; Aug. 7; Serial No. 264,219; published May 29, 1928.
Tires for vehicles. United States Rubber Company. 245,262; Aug. 7; Serial No. 265,026; published May 29, 1928.

CLASS 36.

Phonographs. Geo. Borgfeldt & Co. 245,126; Aug. 7; Serial No. 263,637; published May 29, 1928.

CLASS 37.

Desk stand. H. A. Feigelman. 245,049; Aug. 7; Serial No. 260,884; published May 15, 1928.
Paper and paper napkins, Toilet. Mutual Stores, Inc. 245,304; Aug. 7; Serial No. 264,497; published May 29, 1928.
Paper, Blotting. Rochester Paper Co. 245,108; Aug. 7; Serial No. 261,770; published May 15, 1928.
Paper, Bolk. Kansas City Paper House. 245,270; Aug. 7; Serial No. 262,965; published May 15, 1928.
Paper, Cover. Marvellum Company. 245,110; Aug. 7; Serial No. 263,712; published May 15, 1928.
Paper, crepe paper, paper napkins, and paper tablecloths, Toilet. Fort Howard Paper Company. 245,101; Aug. 7; Serial No. 263,208; published May 15, 1928.
Paper napkins. Independent Paper Mills, Inc. 245,176; Aug. 7; Serial No. 261,440; published May 29, 1928.
Paper napkins and towels and toilet paper. Paramount Specialty Company. 245,044; Aug. 7; Serial No. 258,275; published May 15, 1928.
Paper, Tissue. Pond's Extract Company. 245,041; Aug. 7; Serial No. 259,420; published May 29, 1928.
Paper, Toilet. Lee and Cady. 245,333; Aug. 7.
Paper, Toilet. U. S. Paper Company. 245,040; Aug. 7; Serial No. 259,378; published May 15, 1928.
Paper, Wrapping. Sheridan-Clayton Paper Co. 245,326; Aug. 7.
Sheets, journal sheets, etc., Balance. W. A. Phillips. 245,280; Aug. 7; Serial No. 249,375; published May 29, 1928.
Sheets, strips, rolls, pads, etc., Paper. American Sales Book Company. 245,256; Aug. 7; Serial No. 214,454; published May 29, 1928.
Tablets and writing paper. Birmingham Paper Co. 245,303; Aug. 7; Serial No. 264,554; published May 29, 1928.
Tablets, composition books, papers, etc., Typewriter. Kurtz Bros. 245,327; Aug. 7.
Tickets, tags, and blank labels, Blank marking. A. Kimball Company. 245,346; Aug. 7.

CLASS 38.

Books, leaflets, and instruction sheets. Master Service Inc. 245,086; Aug. 7; Serial No. 252,270; published May 22, 1928.
Books, Printed. Buzza Company. 245,338; Aug. 7.
Books, Printed. Literary Guild of America, Inc. 245,092; Aug. 7; Serial No. 263,485; published May 29, 1928.
Bulletins and house organ, Office. S. Wright. 245,102; Aug. 7; Serial No. 263,113; published May 15, 1928.
Labels, Printed and embossed paper. Tablet & Ticket Co. 245,185; Aug. 7; Serial No. 261,082; published May 29, 1928.

Leaflets, Automotive repair-price. Pacific Radiator. 245,210; Aug. 7; Serial No. 240,730; published May 29, 1928.
Magazine. Radio Dial. 245,087; Aug. 7; Serial No. 251,628; published May 29, 1928.
Magazine. Shulsinger Publishing Company. 245,112; Aug. 7; Serial No. 263,791; published May 15, 1928.
Magazine, Periodical. W. W. Cowan. 245,310; Aug. 7; Serial No. 263,927; published May 15, 1928.
Magazine published periodically. MacFadden Publications, Inc. 245,307; Aug. 7; Serial No. 264,175; published May 15, 1928.
Magazine, Section or department of a. Management Magazines, Inc. 245,047; Aug. 7; Serial No. 260,951; published May 29, 1928.
Magazines and printed books. National Spiritual Assembly of The Baha'is of The United States and Canada. 245,271; Aug. 7; Serial No. 262,923; published May 22, 1928.
Periodical. H. Elbaum. 245,093; Aug. 7; Serial No. 263,380; published May 22, 1928.
Periodical. Supreme Council (Mother Council of the World) of the Inspectors General Knights Commanders of the House of the Temple of Solomon of the Thirty-third Degree of the Ancient and Accepted Scottish Rite of Free Masonry of the Southern Jurisdiction of the United States of America. 245,245; Aug. 7; Serial No. 256,752; published Dec. 13, 1927.
Periodical or trade paper, Monthly printed. Realty Periodical Corporation. 245,103; Aug. 7; Serial No. 263,103; published May 22, 1928.
Periodicals. F. P. Garvan. 245,097; Aug. 7; Serial No. 263,650; published May 29, 1928.
Photographic prints. I. Siegel. 245,272; Aug. 7; Serial No. 262,774; published May 29, 1928.
Publication. Beta Pi Theta Fraternity. 245,098; Aug. 7; Serial No. 263,635; published May 15, 1928.
Publication. De Luxe Reproducing Roll Corporation. 245,217; Aug. 7; Serial No. 235,123; published May 22, 1928.
Publication. Fraternal Order of Orioles. 245,100; Aug. 7; Serial No. 263,598; published May 15, 1928.
Publication. Investment Advertising Company. 245,036; Aug. 7; Serial No. 259,805; published May 29, 1928.
Publication. Warm Air Furnace Fan Company. 245,172; Aug. 7; Serial No. 261,661; published May 15, 1928.
Publication, Monthly. A. Pennamacoor. 245,096; Aug. 7; Serial No. 261,720; published May 22, 1928.
Publications, Charts for weekly. I. Fisher. 245,309; Aug. 7; Serial No. 263,939; published May 15, 1928.
Publications, Periodical. Fraternity of Phi Gamma Delta. 245,111; Aug. 7; Serial No. 263,818; published May 22, 1928.
Title for editorial and news contributions. T. B. Thompson. 245,306; Aug. 7; Serial No. 264,210; published May 22, 1928.

CLASS 39.

Aprons and house frocks, Ladies'. Chic Manufacturing Co. 245,153; Aug. 7; Serial No. 260,190; published Apr. 24, 1928.
Aprons, Masonic or lodge. P. Siebel. 245,220; Aug. 7; Serial No. 260,358; published Apr. 24, 1928.
Boots and shoes. C. H. Baker. 245,343; Aug. 7.
Boots and shoes. Binghamton Shoe & Rubber Co. 245,250; Aug. 7; Serial No. 254,069; published May 1, 1928.
Boots and shoes. French, Shriner & Urner. 245,174; Aug. 7; Serial No. 261,562; published Apr. 10, 1928.
Boots and shoes. B. W. Shaub. 245,167; Aug. 7; Serial No. 259,927; published Apr. 24, 1928.
Box toes. McClellan Shoe Specialty Co. 245,241; Aug. 7; Serial No. 261,324; published Apr. 24, 1928.
Caps and hats. Crofut & Knapp Co. 245,170; Aug. 7; Serial No. 261,702; published Apr. 10, 1928.
Caps, Children's. Reliable Knitting Works. 245,284; Aug. 7; Serial No. 247,869; published May 1, 1928.
Clothing. Jain-Sol Clothing Co. 245,257; Aug. 7; Serial No. 211,935; published June 10, 1925.
Clothing, Athletic. Gordon Vaughan Corporation. 245,243; Aug. 7; Serial No. 261,084; published May 1, 1928.
Clothing, Men's. Ger Company. 245,175; Aug. 7; Serial No. 261,504; published Apr. 17, 1928.
Clothing, Men's. Outlet Company. 245,188; Aug. 7; Serial No. 261,016; published Apr. 17, 1928.
Coats and capes, Waterproof. Pearson Brothers. 245,149–50; Aug. 7; Serial Nos. 260,783–4; published Apr. 24, 1928.
Coats and suits. M. Labensky. 245,238; Aug. 7; Serial No. 261,577; published Apr. 24, 1928.
Coats and suits for women. Jack & Jules Freedman. 245,221; Aug. 7; Serial No. 260,327; published May 1, 1928.
Coats, cloaks, suits, etc. Gladys Cloak & Suit Co. 245,181; Aug. 7; Serial No. 261,253; published Apr. 10, 1928.
Coats, hats, dresses, suits, creepers, etc. Bullock's Inc. 245,168; Aug. 7; Serial No. 259,617; published May 1, 1928.
Coats, hats, suits, etc. I. K. Gross. 245,046; Aug. 7; Serial No. 257,408; published Apr. 17, 1928.
Coats, suits, and dresses, Ladies'. Jos. Engel Co. 245,180; Aug. 7; Serial No. 261,308; published Apr. 10, 1928.
Coats, vests, pants, and overcoats, Men's. Fashion Park Incorporated. 245,056; Aug. 7; Serial No. 260,439; published Apr. 10, 1928.
Coats, vests, trousers, and overcoats. Maurice E. Sultzbach, Inc. 245,311; Aug. 7.
Coats, vests, trousers, etc. Shirek & Hirsch. 245,053; Aug. 7; Serial No. 260,535; upblished Apr. 10, 1928.
Coats, wraps, capes, etc. Young-Quinlan Company. 245,213; Aug. 7; Serial No. 235,708; published Apr. 10, 1928.
Coats, wraps, capes, etc. Young-Quinlan Company. 245,214; Aug. 7; Serial No. 235,443; published Apr. 10, 1928.
Coats, wraps, capes, etc. Young-Quinlan Company. 245,215; Aug. 7; Serial No. 235,366; published Apr. 10, 1928.
Coats, wraps, capes, etc. Young-Quinlan Company. 245,216; Aug. 7; Serial No. 235,364; published Apr. 10, 1928.
Corsets, brassières, and girdles. Kops Bros. Inc. 245,278; Aug. 7; Serial No. 261,010; published Apr. 10, 1928.
Dresses. Fifth Avenue Modes Inc. 245,094; Aug. 7; Serial No. 261,707; published Apr. 10, 1928.
Dresses. L. Kallish. 245,054; Aug. 7; Serial No. 260,504; published Apr. 10, 1928.
Dresses. J. & M. Yellin. 245,106; Aug. 7; Serial No. 261,854; published Apr. 10, 1928.
Dresses, Ladies'. Bijou Dress Co. 245,240; Aug. 7; Serial No. 261,417; published Apr. 24, 1928.
Dresses, Ladies'. D. J. Henly. 245,323; Aug. 7.
Dresses, Misses', women's, and children's. Kornhandler & Kane, Inc. 245,186; Aug. 7; Serial No. 261,066; published Apr. 17, 1928.
Galoshes, snow boots, bootees, etc. Helsingborgs Gummifabriks Aktiebolag. 245,291; Aug. 7; Serial No. 245,011; published May 1, 1928.
Garments and wearing apparel manufactured in whole or in part from furs. C. G. Gunther's Sons. 245,142–3; Aug. 7; Serial Nos. 256,461–2; published Apr. 24, 1928.
Garments and wearing apparel manufactured in whole or in part from furs. C. G. Gunther's Sons. 245,144; Aug. 7; Serial No. 255,658; published Apr. 24, 1928.
Gloves. Field Glove Company. 245,083; Aug. 7; Serial No. 255,650; published Apr. 17, 1928.
Gloves. Stern Brothers. 245,037; Aug. 7; Serial No. 259,655; published Apr. 10, 1928.
Gloves of leather. La Maroquinerie Nationale, Soc. Ame. 245,039; Aug. 7; Serial No. 259,497; published Apr. 17, 1928.
Hats and caps. Etchison Hat Co. 245,135; Aug. 7; Serial No. 258,859; published May 1, 1928.
Hats and hat bodies. Newport Hat Body Co. 245,136; Aug. 7; Serial No. 258,696; published May 1, 1928.
Hats and hat linings, Ladies'. R. Beith Co. Inc. 245,252; Aug. 7; Serial No. 252,185; published Apr. 24, 1928.
Hats, caps, suits, coats, neckties, etc. Hixbie & Co. Inc. 245,038; Aug. 7; Serial No. 259,556; published Apr. 17, 1928.
Hats, coats, suits, dresses. E. L. Ilson. 245,082; Aug. 7; Serial No. 256,190; published Apr. 10, 1928.
Hats, Ladies'. Edson Keith-Chicago Mercantile Company. 245,079; Aug. 7; Serial No. 256,720; published Apr. 17, 1928.
Hats, Ladies'. Everitt & Graf, Inc. 245,316; Aug. 7.
Hats, Ladies'. L. N. Pokress. 245,183; Aug. 7; Serial No. 261,142; published Apr. 10, 1928.
Hats, Men's. Golden Rod Hat Co. 245,139; Aug. 7; Serial No. 257,231; published Apr. 24, 1928.
Heels, Rubber. Hood Rubber Company. 245,173; Aug. 7; Serial No. 261,572; published Apr. 10, 1928.
Hose protectors. N. H. Lake. 245,050; Aug. 7; Serial No. 260,638; published Apr. 10, 1928.
Hosiery. Arcey Company Inc. 245,107; Aug. 7; Serial No. 261,783; published Apr. 10, 1928.
Hosiery. Arteraft Silk Hosiery Mills, Inc. 245,043; Aug. 7; Serial No. 258,395; published Apr. 10, 1928.
Hosiery. Dexdale Hosiery Mills. 245,169; Aug. 7; Serial No. 261,705; published Apr. 10, 1928.
Hosiery. Hanes Hosiery Mills Company. 245,095; Aug. 7; Serial No. 261,710; published Apr. 10, 1928.
Hosiery. Interwoven Stocking Company. 245,085; Aug. 7; Serial No. 253,025; published Oct. 25, 1927.
Hosiery. Kahler Shoe Co. Inc. 245,211; Aug. 7; Serial No. 239,036; published Apr. 17, 1928.
Hosiery. Mountain City Knitting Mills. 245,275; Aug. 7; Serial No. 262,476; published Apr. 17, 1928.
Hosiery. L. I. Robinson. 245,134; Aug. 7; Serial No. 259,592; published May 1, 1928.
Hosiery. Rufus W. Scott Compapny. 245,151; Aug. 7; Serial No. 260,759; published May 1, 1928.
Hosiery. Thomas, Field & Co. 245,224; Aug. 7; Serial No. 259,929; published Apr. 24, 1928.
Hosiery, corsets, neckties, etc. A. R. Wieland. 245,084; Aug. 7; Serial No. 255,149; published Apr. 10, 1928.
Hosiery, Ladies' woolen. Bear Brand Hosiery Co. 245,145; Aug. 7; Serial No. 255,219; published May 1, 1928.

Hosiery, Waterproof. R. Vrabek. 245,187; Aug. 7; Serial No. 261,025; published Apr. 17, 1928.
Hosiery, Women's and girls'. I. Miller and Sons, Incorporated. 245,254; Aug. 7; Serial No. 248,781; published Apr. 10, 1928.
Insoles and heels. Essex Rubber Company Inc. 245,140; Aug. 7; Serial No. 257,154; published May 1, 1928.
Neckties. Acoma Textile Mills. 245,294; Aug. 7; Serial No. 242,807; published Apr. 24, 1928.
Overalls, coveralls, work shirts, and pants. Johnston Dry Goods Co. 245,276; Aug. 7; Serial No. 262,403; published Apr. 17, 1928.
Overcoats and topcoats. L. W. Prager & Son. 245,283; Aug. 7; Serial No. 243,883; published Apr. 17, 1928.
Overcoats, Men's. Hickey-Freeman Co. 245,236; Aug. 7; Serial No. 262,026; published Apr. 24, 1928.
Pajamas, nightshirts, and nightgowns. L. Feibleman & Co. 245,138; Aug. 7; Serial No. 258,172; published May 1, 1928.
Scarfs, dresses, etc., Ladies' fur. D. Douglas. 245,152; Aug. 7; Serial No. 260,494; published May 1, 1928.
Shanks and combined leather shanks of leather and metal for use in shoes, Leather. F. G. Delbon. 245,042; Aug. 7; Serial No. 258,624; published Apr. 17, 1928.
Shirts, Men's. Parkley Shirt Co. 245,081; Aug. 7; Serial No. 256,371; published Apr. 10, 1928.
Shirts, overalls, jackets, pants, etc. E. V. Benjamin Company. 245,052; Aug. 7; Serial No. 260,549; published Apr. 17, 1928.
Shoes. Cedar Grove Shoe Mfg. Co. 245,058; Aug. 7; Serial No. 260,083; published Apr. 17, 1928.
Shoes. Ideal Shoe Mfg. Co. 245,212; Aug. 7; Serial No. 236,039; published Apr. 17, 1928.
Shoes. Julius Gutman & Co. 245,320; Aug. 7.
Shoes. Selby Shoe Company. 245,247; Aug. 7; Serial No. 226,690; published Apr. 10, 1928.
Shoes. J. O. Steele. 245,292; Aug. 7; Serial No. 244,962; published May 1, 1928.
Shoes, Men's leather. R. H. Macy & Co. 245,290; Aug. 7; Serial No. 245,066; published Apr. 24, 1928.
Shoes, Tennis and athletic. Endicott Johnson Corporation. 245,177; Aug. 7; Serial No. 261,427; published Apr. 10, 1928.
Suits and overcoats, Men's. Paymer Brothers. 245,286–7; Aug. 7; Serial Nos. 246,358–9; published Apr. 24, 1928.
Suits, blouses, etc. B. Lobel. 245,105; Aug. 7; Serial No. 261,887; published Apr. 10, 1928.
Suits, Men's. Graff Company. 245,048; Aug. 7; Serial No. 260,942; published Apr. 17, 1928.
Suits, overcoats, topcoats, and knickers, Men's. Levy Bros. & Adler Rochester, Inc. 245,288; Aug. 7; Serial No. 246,296; published Apr. 24, 1928.
Sweaters and bathing suits. Ely & Walker Dry Goods Company. 245,258; Aug. 7; Serial No. 170,811; published Apr. 17, 1928.
Sweaters and sweater coats. Dessauer & Engel Company. 245,147; Aug. 7; Serial No. 260,813; published Apr. 24, 1928.
Sweaters, bathing suits, knitted dresses, coats, caps, and sport hosiery. H. L. Peterzell. 245,146; Aug. 7; Serial No. 255,073; published May 1, 1928.
Topcoats and suits, Men's. Hickey-Freeman Co. 245,235; Aug. 7; Serial No. 262,027; published Apr. 24, 1928.
Topcoats, overcoats, suits, etc. Lubow Brothers, Inc. 245,242; Aug. 7; Serial No. 261,323; published Apr. 24, 1928.
Underwear and nightwear. Sexton Manufacturing Company. 245,314–5; Aug. 7.
Underwear for women and children. Kingsboro Silk Mills, Inc. 245,330; Aug. 7.
Underwear, Women's and children's. Vanity Fair Silk Mills. 245,232; Aug. 7; Serial No. 262,496; published Apr. 24, 1928.
Underwear, Women's knitted. Iris Knitting Corporation. 245,251; Aug. 7; Serial No. 253,806; published May 1, 1928.
Underwear, Women's knitted and woven. Ipswich Mills. 245,293; Aug. 7; Serial No. 244,500; published Apr. 24, 1928.
Union suits, Sleeveless. R. C. Pell, jr. 245,249; Aug. 7; Serial No. 254,422; published Apr. 24, 1928.
Vests and shirts for sport wear. A. J. Izod, Limited. 245,045; Aug. 7; Serial No. 257,582; published Apr. 17, 1928.

CLASS 42.

Fabrics, Textile. Cohn-Hall-Marx Co. 245,109; Aug. 7; Serial No. 263,690; published May 29, 1928.
Lace curtains and curtain lace. Quaker Lace Company. 245,295; Aug. 7; Serial No. 265,403; published May 29, 1928.
Rugs, Oriental. L. Mahmarian. 245,104; Aug. 7; Serial No. 261,891; published May 22, 1928.
Rugs, Textile. Breslin Brothers Carpet Company. 245,299; Aug. 7; Serial No. 265,089; published May 29, 1928.
Silk and cotton piece goods. Levi-Simson & Company. 245,342; Aug. 7.
Silk piece goods. Empire Silk Company. 245,300; Aug. 7; Serial No. 264,814; published May 29, 1928.
Silk piece goods. H. Mirenburg & Co. Inc. 245,137; Aug. 7; Serial No. 258,343; published Apr. 3, 1928.
Silks, flat crepes, chiffons, etc. Frank & Cohen Silk Corp. 245,184; Aug. 7; Serial No. 261,103; published May 29, 1928.
Webbing, Knitted elastic. Frank W. Gorse Co. 245,296; Aug. 7; Serial No. 265,378; published May 29, 1928.
Woolen piece goods. Forstmann & Huffmann Company. 245,298; Aug. 7; Serial No. 265,151; published May 29, 1928.

CLASS 43.

Yarn. Rosland Corporation. 245,297; Aug. 7; Serial No. 265,168; published May 29, 1928.

CLASS 44.

Bandages, strips, bands, belts, etc. Safety Glass and Metal Products, Limited. 245,090; Aug. 7; Serial No. 249,925; published May 29, 1928.
Bedpans. Columbian Enameling & Stamping Co. 245,125; Aug. 7; Serial No. 263,692; published May 29, 1928.
Container, Radium-treated. S. L. Goldman. 245,132; Aug. 7; Serial No. 262,999; published May 29, 1928.
Driers, vibrators, and massage apparatus, etc. Electric hair. Bretty & Beckher, Inc. 245,259; Aug. 7.
Heating pads. Thermogen Products Corporation. 245,128; Aug 7; Serial No. 263,359; published May 29, 1928.
Hygienic bridges, gold crowns, etc. H. P. Boos. 245,324; Aug. 7.
Lamps, Electric. W. J. Cameron. 245,059; Aug. 7; Serial No. 259,393; published May 29, 1928.
Machine, Electrically-operated flesh-vibrating. Collapso Camp Bed Co. 245,133; Aug. 7; Serial No. 262,898; published May 29, 1928.
Permanent-waving machines and parts and accessories of permanent-waving equipment. Eugene, Ltd. 245,123; Aug. 7; Serial No. 263,757; published May 29, 1928.
Sanitary belts and napkins. O. C. Stahl. 245,129; Aug. 7; Serial No. 263,356; published May 29, 1928.
Scalers, Dental. Ransom & Randolph Co. 245,328; Aug. 7.
Supporters, Arch. Falcone & Dewing, Inc. 245,066; Aug. 7; Serial No. 256,865; published May 29, 1928.
Toothpicks. Lee and Cady. 245,335; Aug. 7.
Tubes, breast pumps, etc., Stomach. Miller Rubber Company. 245,190; Aug. 7; Serial No. 262,672; published May 29, 1928.

CLASS 45.

Beverages. E. H. House. 245,319; Aug. 7.
Beverages and sirups, extracts, and concentrates for making the same, Maltless. Mt. Madison Spring Co. 245,196; Aug. 7; Serial No. 262,373; published May 29, 1928.
Beverages, sirups, extracts, and concentrates for making the same, Maltless. Myer Bottling Co. 245,032; Aug. 7; Serial No. 264,042; published May 29, 1928.
Beverages sold as soft drinks. Tip Top Bottling Co. 245,209; Aug. 7; Serial No. 241,454; published June 21, 1927.
Ginger ale. Brown Beverages Corporation. 245,260; Aug. 7; Serial No. 265,091; published May 29, 1928.

CLASS 46.

Bread, Health. S. A. Stoneback. 245,321; Aug. 7.
Candy. W. F. Schrafft & Sons Corporation. 245,033; Aug. 7; Serial No. 264,052; published May 29, 1928.
Canned asparagus tips, cranberries, beets, etc. Sampson & Burnham Co. Inc. 245,255; Aug. 7; Serial No. 248,257; published May 29, 1928.
Canned fruit and jellies. East Coast Preserving Company. 245,124; Aug. 7; Serial No. 263,698; published May 29, 1928.
Canned fruits and vegetables, coffee, tea, etc. Simon Bros. Co. 245,285; Aug. 7; Serial No. 247,221; published May 29, 1928.
Canned sauerkraut and sauerkraut juice. Stewart Products Corporation. 245,202; Aug. 7; Serial No. 261,994; published May 29, 1928.
Chocolates and bonbons. R. M. Haan Candy Co. 245,127; Aug. 7; Serial No. 263,549; published May 29, 1928.
Cocoa, Package. Lee and Cady. 245,318; Aug. 7.
Coffee, Roasted. Rich-Maid Manufacturing Company. 245,019; Aug. 7; Serial No. 264,778; published May 29, 1928.
Compounds of cocoa, sugar, and flavorings. H. B. Hunter Company. 245,078; Aug. 7; Serial No. 254,549; published May 22, 1928.
Dressing, French. P. K. Agnew. 245,337; Aug. 7.
Extract, Malt. H. Rubin. 245,155; Aug. 7; Serial No. 264,610; published May 29, 1928.
Fruits, Fresh citrus. Oxnard Citrus Association. 245,193; Aug. 7; Serial No. 262,625; published May 29, 1928.
Grapes and citrus fruits, Fresh. T. E. Anderson. 245,266; Aug. 7; Serial No. 264,939; published May 29, 1928.
Grapes, peaches, and plums, Fresh. Glaze, Balaam & Moye. 245,344; Aug. 7.
Grapes, pears, cherries, peaches, Fresh. Brookside Fruit Co. 245,317; Aug. 7.

Ice-cream cones. Preferred Baking Co. 245,159; Aug. 7; Serial No. 264,198; published May 29, 1928.
Macaroni. Kurtz Bros. 245,157; Aug. 7; Serial No. 264,431; published May 29, 1928.
Milk, Condensed. Borden Company. 245,223; Aug. 7; Serial No. 260,079; published May 29, 1928.
Mincemeat. Arnold Bros. 245,312; Aug. 7.
Mustard, Prepared. Frank Tea & Spice Co. 245,248; Aug. 7; Serial No. 254,906; published May 29, 1928.
Nuts and nuts in their natural state, Candied and salted. Peterson Nut Company. 245,062; Aug. 7; Serial No. 258,957; published May 29, 1928.
Oranges, Fresh. Hillside Packing Association. 245,265; Aug. 7; Serial No. 264,985; published May 29, 1928.
Oranges, Fresh. Sunland Packing House Company. 245,263; Aug. 7; Serial No. 265,023; published May 29, 1928.
Oranges, lemons, and grapefruit. Central California Producers. 245,246; Aug. 7; Serial No. 230,525; published May 29, 1928.
Oranges, lemons, and grapefruit. Upland Lemon Growers Association. 245,267; Aug. 7; Serial No. 264,929; published May 29, 1928.
Olive oil. L. Schaer. 245,219; Aug. 7; Serial No. 237,985; published May 29, 1928.
Poultry, Dressed. Enid Poultry & Egg Company. 245,028; Aug. 7; Serial No. 264,158; published May 29, 1928.
Powders for chocolate milk drinks. E. C. McCullough. 245,156; Aug. 7; Serial No. 264,594; published May 29, 1928.
Sandwiches. Lance Packing Company. 245,233–4; Aug. 7; Serial Nos. 262,095–6; published May 29, 1928.
Sauce, Cooked vegetable. Z. D. Kapesizis. 245,225; Aug. 7; Serial No. 263,550; published May 29, 1928.
Sauce, etc., Sherry-wine seasoning. Colonial Grape Products Co. of California. 245,148; Aug. 7; Serial No. 260,802; published May 29, 1928.
Sausages and frankfurters. Visking Corporation. 245,076–7; Aug. 7; Serial Nos. 254,788–9; published May 29, 1928.
Seasoning, cloves, mustard, etc., Poultry. E. H. Lamme. 245,237; Aug. 7; Serial No. 261,819; published May 29, 1928.
Sugar, Corn. Vet Products Laboratory Inc. 245,165; Aug. 7; Serial No. 263,796; published May 29, 1928.
Syrup, Malt. R. P. Friedman. 245,160; Aug. 7; Serial No. 264,161; published May 29, 1928.
Syrup, Malt. G. M. Zahringer. 245,166; Aug. 7; Serial No. 263,574; published May 29, 1928.
Tea. J. Miller. 245,070; Aug. 7; Serial No. 255,922; published May 29, 1928.
Tea. W. H. Stoecker. 245,119; Aug. 7; Serial No. 263,837; published May 29, 1928.
Vegetables, Dehydrated. California Vegetable Products Co. 245,222; Aug. 7; Serial No. 260,162; published May 29, 1928.

ALPHABETICAL LIST OF LABELS.

Amandola. For Candy. Robt. F. Mackenzie Co. 34,409; Aug. 7.
A-Mond Soda. For a Nonalcoholic Beverage—Namely, Soda. S. Leonardo. 34,406; Aug. 7.
Cinderella Slipper Shoppe. For Shoes, Slippers, Rubbers, and Hosiery. S. W. Wyman. 34,418; Aug. 7.
Colca. For Cookies. Colca Cookie Corp. 34,395; Aug. 7.
Concord Grapes. For Concord Grapes. Grand River Fruit Association. 34,400; Aug. 7.
Foresto Michelucci's Medicated Bathing Medicine. For a Medicinal Preparation. F. Michelucci. 34,410; Aug. 7.
Fyfes. For Shoes. R. H. Fyfe & Co. 34,398; Aug. 7.
Golden Hawaiian. For Glacé Pineapple. Mid-Pacific Candy Company. 34,411; Aug. 7.
H. R. H. Her Royal Highness. For Hosiery. Studio Hosiery Company. 34,415; Aug. 7.
Hercules Dry Cell. For Electric Batteries. National Carbon Company. 34,412; Aug. 7.
Hickman's Silver Birch Chewing Gum. For Chewing Gum. R. H. Hickman Company. 34,403; Aug. 7.
Kassim. For Canned Fish. R. E. M. Kassim. 34,404; Aug. 7.
Long Chew Gum (Case #1). For Chewing Gum. Clark Brothers Chewing Gum Co. 34,393; Aug. 7.
Long Chew Gum (Case #3). For Chewing Gum. Clark Brothers Chewing Gum Co. 34,394; Aug. 7.
Miracle. For Fresh Oranges. Bradford Bros., Inc. 34,392; Aug. 7.
Morning Glory. For Substitute for Coffee. A. C. Leone. 34,408; Aug. 7.
Namelite Mill White. For Paints. M. Abelman. 34,391; Aug. 7.
Pioneer. For Canned Minced Clams. G. P. Halferty & Co. 34,402; Aug. 7.
Rose'mond. For Cleansing Cream. Rose'mond Cosmetic Co. 34,413; Aug. 7.
Sher-Bo. For Dessert and Pudding Powder. Guntrath-Lorenzen Co. 34,401; Aug. 7.
Soda. For Nonalcoholic Beverages. S. Leonardo. 34,407; Aug. 7.
Sole Joy. For Massage for the Feet. C. M. Dean. 34,397; Aug. 7.
Teitler's. For Bottled Carbonated Beverages. Coney Island Soda Water Co. 34,396; Aug. 7.
The Boxing Game, Manly Art of Self Defense. For Game. Stoll & Edwards Co. Inc. 34,414; Aug. 7.
Thunderbolt. For Insecticide. The Thunderbolt Co. 34,416; Aug. 7.
Treasure Island Delicacies. For Cakes and Confections. D. K. Gerrish. 34,399; Aug. 7.
Variety. For Candy Bars. L. W. Kimball. 34,405; Aug. 7.
Welch-Ade. For Welch-Ade. Welch Grape Juice Company. 34,417; Aug. 7.

ALPHABETICAL LIST OF PRINTS.

Clamp Nails. For Clamp Nails. Clamp Nail Company. 11,138; Aug. 7.
Frasik's Red Seal Aspirin. For Aspirin. A. M. Frasik & Son Co. 11,145; Aug. 7.
Give her a Silverware Shower. For Heirloom Plate Silverware. Wm. A. Rogers, Ltd. 11,148; Aug. 7.
Handbags . . . In a Selection of Individual Creations that are very Unusual. For Hand bags. Black, Starr & Frost. 11,135; Aug. 7.
Individuality. For Vehicle Bumpers. C. G. Spring & Bumper Company. 11,136; Aug. 7.
Long Chew Gum (Case #2). For Chewing Gum. Clark Brothers Chewing Gum Co. 11,143; Aug. 7.
Miter Nails. For Clamp Nails. Clamp Nails Company. 11,140; Aug. 7.
National Shelter Group. For Colored Inserts for Magazines. Walter C. McMillan Inc. 11,147; Aug. 7.
Pioneer Fence. For Wire Fencing. Continental Steel Corporation. 11,144; Aug. 7.
Prices of Clamp Nails. For Clamp Nails. Clamp Nail Company. 11,139; Aug. 7.
Siegler. For Clamp Nails. Clamp Nail Company. 11,142; Aug. 7.
Steel grip. For Clamp Nails. Clamp Nail Company. 11,141; Aug. 7.
The Phalanx of Protection. For Vehicle Bumpers. C. G. Spring & Bumper Company. 11,137; Aug. 7.
We Discovered a Better Way. For Peanut Butter. H. J. Heinz Company. 11,146; Aug. 7.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 7TH DAY OF AUGUST, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A C Spark Plug Company. (See Champion, Albert, assignor.)
A C Spark Plug Company. (See Rabezzana, Hector, assignor.)
A C Spark Plug Company. (See Zubaty, Joseph, assignor.)
Aas, Nils, Skarnes, Norway. Instrument for administering medicines to animals. 1,679,391; Aug. 7.
Acro Aktiengesellschaft. (See Lang, Franz, assignor.)
Addressograph Company. (See Duncan, J. S., and Hubbard, assignors.)
Adjusto Hat Corporation. (See Fischer, Philip A., assignor.)
Aeromarine Starter Company. (See Chilton, Roland, assignor.)
Aeschbach, Friedrich, Aarau, Switzerland, assignor to The Artofex Corporation, New York, N. Y. Machine for stirring and beating dough and like materials. 1,679,342; Aug. 7.
Agfa Ansco Corporation. (See Lessler, Lew W., assignor.)
Agfa Ansco Corporation. (See Bornmann, Carl A., assignor.)
Aiello, Vito, White Plains, N. Y. Oil burner. 1,680,193; Aug. 7.
Akashi, Kazue, Tokyo, Japan. Drawing compass having a lengthening device of legs. 1,680,194; Aug. 7.
Aktiebolaget Bästa. (See Heijkenskjöld, Gustaf O. W., assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Frey, Karl, assignor.)
Alamo Iron Works. (See Holmgreen, Julius H. and R. J., assignors.)
Aldrich, Alonzo, assignor to Beloit Iron Works, Beloit, Wis. Mechanism for reeling paper and the like. 1,679,343; Aug. 7.
Alexander, Carl Z. (See Alexander, Earl S. and C. Z.)
Alexander, Daniel E. (See Poston, Edwin L., assignor.)
Alexander, Earl S. and C. Z., Newark, assignors, by mesne assignments, to E. C. Seward, Jersey City, N. J. Steam boiler. 1,679,344; Aug. 7.
Allegheny Steel Company. (See Otte, Otho M., assignor.)
Allen, Charles H., Claremont, N. H., assignor to Sullivan Machinery Company. Rock-drilling motor. 1,680,247; Aug. 7.
Allen, Charles H., Claremont, N. H., assignor to Sullivan Machinery Company. Motor. 1,680,250; Aug. 7.
Allen, Edward B., Dunnellon, Fla. Logging boat. 1,680,195; Aug. 7.
Allen, Raymond E., Providence, R. I. Stand for heating electric sadirons. 1,679,756; Aug. 7.
Allender, Fred E., Davenport, Iowa. Toy catapult. 1,680,077; Aug. 7.
Allerheiligen, Albert H., L. F. Crain, and C. Erichsen, Missouri Valley, Iowa. Frostproof guard. 1,679,802; Aug. 7.
Almen, John O., Seattle, Wash. Internal-combustion engine. 1,679,824; Aug. 7.
Aluminum Company of America. (See Guyot, Marius, assignor.)
Aluminum Company of America. (See Kohl, George, assignor.)
Aluminum Company of America. (See Norton, A. B., and Guyot, assignors.)
Aluminum Company of America. (See Stay, T. D., and Tessier, assignors.)
Allworth, Arthur B., assignor to The Miller Company, Meriden, Conn. Lighting fixture. 1,680,078; Aug. 7.
American Brass Company, The. (See Kinnear, Delamar C., assignor.)
American Flyer Manufacturing Company. (See Cuff, James E., assignor.)
American Laundry Machinery Company, The. (See McCarthy, John E., assignor.)
American Laundry Machinery Company, The. (See Pauly, Robert C., assignor.)
American Radiator Company. (See Courtot, Louis, assignor.)
American Re-Enforced Paper Company. (See Howard, Charles H., assignor.)
American Sheet and Tin Plate Company. (See McFetridge, Joseph, assignor.)
American Sheet and Tin Plate Company. (See McIlvried, Howard G., assignor.)
American Smelting and Refining Company. (See Hershey, Carl G., assignor.)
American Telephone and Telegraph Company. (See Bascom, Henry M., assignor.)
American Telephone and Telegraph Company. (See De Potter, Edward F., assignor.)
American Telephone and Telegraph Company. (See Jewell, Howard W., assignor.)
American Telephone and Telegraph Company. (See McCurdy, Ralph G., assignor.)
Amity Leather Products Co. (See Rolfs, Baltus, assignor.)
Anaconda Sales Company. (See Drake, Ralph E., assignor.)
Anchor Cap and Closure Corporation. (See Jaeger, Max, assignor.)
Anderson, Chester O. (See Anderson, Frank M. and C. O.)
Anderson, Emmerick, Dayton, Ky. Shoe. 1,679,889; Aug. 7.
Anderson, Frank M. and C. O., St. Joseph, Mo. Sand-grading device. 1,679,757; Aug. 7.
Anderson, Harry F., Marion, Ind., assignor of one-half to J. Boyce, Laketon, Mich. Sign. 1,679,462; Aug. 7.
Anderson, Harry T., Butler, Pa., assignor to T-Z Railway Equipment Co., Chicago, Ill. Metal step. 1,680,032; Aug. 7.
Andrews, Arthur G., Rockford, Ill., assignor to The Washburn Company, Worcester, Mass. Dish drier. 1,679,594; Aug. 7.
Appleby, Edmund G. (See Bentley, G. H., and Appleby.)
Appleby, Geoffrey E., et al., executors. (See Bentley, G. H., and Appleby.)
Appler, Abraham B. (See Brown, G., and Appler.)
Applin, Samuel, Philadelphia, Pa. Scouring device. 1,679,392; Aug. 7.
Architectural Metal Products, Incorporated, The. (See Lee, Josiah E., assignor.)
Armstrong, Edward P., Portland, Oreg. Gang saw. 1,679,595; Aug. 7.
Arndt, Franklin E., assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio. Scraper. 1,679,393; Aug. 7.
Arndt, Franklin E., assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio. Bottom lifting and equalizing mechanism for road graders. 1,679,394; Aug. 7.
Arndt, Franklin E., assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio. Leaning-wheel grader. 1,679,803; Aug. 7.
Arnold, Hubert, Calgary, Alberta, Canada. Knife. 1,680,001; Aug. 7.
Arnold, Samuel, 3d, Ben Avon, Pa. Electric furnace and operating mechanism therefor. 1,680,237; Aug. 7.
Arrow Electric Company, The. (See Nero, Arvid H., assignor.)
Artofex Corporation, The. (See Aeschbach, Friedrich, assignor.)
Asquith, William, Limited. (See Feather, George, assignor.)
Atkins, E. C., & Company. (See Pribnow, John F., assignor.)
Atmospheric Nitrogen Corporation. (See Slade, R. E., and Gordon, assignors.)
Aurynger, John J., Brooklyn, N. Y. Detector condenser. 1,679,341; Aug. 7.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Method and apparatus for casting ceramic pieces. 1,679,345; Aug. 7.
Austin, Earl C., Bluefield, W. Va. Toilet case. 1,680,196; Aug. 7.
Automatic Electric Inc. (See Grabe, Georg, assignor.) Aug. 7.
Automatic Electric Inc. (See Gardner, John E., assignor.)
Automobiles Cottin & Desgouttes, Societe Anonyme. (See Cottin, Cyrille E., assignor.)
Automotive Valves Corporation, The. (See Burtnett, Everett R., assignor.)
Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)
Babecki, Konstantyn, Woodside, N. Y. Wash hanger. 1,679,596; Aug. 7.
Bailey, Ervin G., Cleveland Heights, Ohio, assignor, by mesne assignments, to Fuller Lehigh Company. Apparatus for feeding and metering pulverulent or granular material. 1,679,557; Aug. 7.
Bailey, George G., Washington, D. C. Steering control for boats. 1,679,395; Aug. 7.
Baker Manufacturing Company, The. (See Baker, Rollyn H., assignor.)
Baker, Rollyn H., assignor to The Baker Manufacturing Company, Dayton, Ohio. Vending machine. 1,680,238; Aug. 7.

Baldwin, Robert A., Ashton-on-Mersey, England. Mode of supporting and journaling motors and high-speed shafts driven thereby. 1,679,890; Aug. 7.

Bankers Savings & Credit System Company, The. (See Baughman, O. F., and Habart, assignors.)

Barclay, William R., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Support. 1,679,346; Aug. 7.

Barden, George L. (See Watson, A. L., and Barden.)

Barker, William T., jr., assignor to Hartford-Empire Company, Hartford, Conn. Glass press. 1,679,848; Aug. 7.

Barnes Drill Company. (See Johnson, Albert M., assignor.)

Barrett, John C., Chicago, Ill. Variable electrical condenser. 1,680,239; Aug. 7.

Barron, Clarence G., Los Angeles, Calif. Glare shield. 1,679,704; Aug. 7.

Barrows, Alford C. (See Langford, G. W., Barrows, and Good.)

Barrows, Donald S., Rochester, assignor to The Symington Company, New York, N. Y. Truck side frame. 1,679,925; Aug. 7.

Bartenfeld, Wilford G., Lorain, Ohio. Channel construction for the sides and tops of tanks of vessels. 1,679,926; Aug. 7.

Bartholomew, Bert E., Pasadena, Calif., assignor to Sands Production Company, Cleveland, Ohio. French window and door casement fastener. 1,679,955; Aug. 7.

Bascom, Henry M., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Measuring system. 1,679,396; Aug. 7.

Bassick Manufacturing Company, The. (See Bell, William D., assignor.)

Bassick Manufacturing Company, The. (See Davis, Ernest W., assignor.)

Bassick Manufacturing Company, The. (See Herb, Otto J., assignor.)

Bassick Manufacturing Company, The. (See Murphy, Howard J., assignor.)

Bassick Manufacturing Company, The. (See Otis, Joseph E., jr., assignor.)

Bassick Manufacturing Co., The. (See Pierce, Earl F., assignor.)

Bassick Manufacturing Company, The. (See Sweet, Donald H., assignor.)

Bassick Manufacturing Company, The. (See Zerk, Oscar, assignor.)

Bassick Manufacturing Company, The. (See Zerk, Oscar U., assignor.)

Bateman, Raymond F., King City, Mo. Barn broom. 1,680,197; Aug. 7.

Battelle, Gordon, and H. M. Runkle, Columbus, Ohio, and W. B. Tobin, Los Angeles, Calif., assignors to The International Derrick & Equipment Company, Columbus, Ohio. Derrick structure for oil, gas, and artesian wells. 1,680,198; Aug. 7.

Baudry, George. (See Bisel, Wilber S. and O. J., assignors.)

Bauersfeld, Walther, and O. Schmidt, assignors to the firm of Carl Zeiss, Jena, Germany. Junction-point construction for iron network. 1,679,758; Aug. 7.

Baughman, Orland F., and J. Habart, Lakewood, assignors to The Bankers Savings & Credit System Company, Cleveland, Ohio. Money bank. 1,679,644; Aug. 7.

Baumann, Alois L., Kellogg, Idaho. Parlor bowling device. 1,679,643; Aug. 7.

Baumgärtel, Max, Rodewisch, Germany. Conveying away exhaust gases from motor cars in garages. 1,679,705; Aug. 7.

Beasley, Starley F., assignor of one-half to F. E. Wellman, Kansas City, Kans. Draft-gear carrier iron and tank-band anchor. 1,680,003; Aug. 7.

Beardsley, Charles E., and A. T. Smith, assignors, by mesne assignments, to The Beardsley and Wolcott Manufacturing Company, Waterbury, Conn. Combination lamp and smoker's stand. 1,680,002; Aug. 7.

Beardsley and Wolcott Manufacturing Company, The. (See Beardsley, C. E., and Smith, assignors.)

Beaumont, R. H., Co. (See Beaumont, Robert H., assignor.)

Beaumont, Robert H., Radnor, assignor to R. H. Beaumont Co., Philadelphia, Pa. Material storage and handling system. 1,680,242; Aug. 7.

Beck, Ernest T., assignor to International Silver Company, Meriden, Conn. Fork or similar article. Des. 75,950; Aug. 7.

Beck-Frost Corporation, The. (See Lober, George H., assignor.)

Becker, Frank J., North Tonawanda, assignor of one-half to F. J. Moore, Buffalo, N. Y. Screening device. 1,680,243; Aug. 7.

Bees, Paul M., Chicago, Ill., assignor to Cornell Wood Products Company. Bathtub shipping crate and cover. 1,679,891; Aug. 7.

Bell, Kenneth D., South Bend, Ind., and E. Meinzinger, Dearborn, Mich. Measuring device. 1,679,927; Aug. 7.

Bell, Robert, Hanover, Ontario, Canada. Radiocircuits. 1,679,347; Aug. 7.

Bell, William D., Columbus, Ohio, assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Method and apparatus for ejecting lubricants. 1,679,849; Aug. 7.

Beloit Iron Works. (See Aldrich, Alonzo, assignor.)

Beloit Iron Works. (See Berry, Earl E., assignor.)

Bendix Brake Company. (See Dodge, Adiel Y., assignor.)

Bénit, Henri, Paris, France. Aluminum alloy of high resistance. 1,680,004; Aug. 7.

Benjamin Electric Manufacturing Company. (See Warner, Chester E., assignor.)

Bentley, Albert G. (See Friend, E. H., and Bentley.)

Bentley, George H., and E. G. Appleby, deceased, Westminster, London, England; G. E. Appleby and W. W. Hargrove, executors, assignors to said Bentley. Gas producer. 1,679,645. Aug. 7.

Bentley, William H., Burnley, assignor of two-thirds to John Riley & Sons Limited, Hapton, England. Manufacture of pure sulphur. 1,680,079; Aug. 7.

Benzion, Joseph, New York, N. Y. Pipe coupling. 1,680,080; Aug. 7.

Berg, Hans, Grand Rapids, Mich., assignor to The Brunswick-Balke-Collender Co., Chicago, Ill. Game table. Des. 75,951; Aug. 7.

Berg, Hans, Grand Rapids, Mich., assignor to The Brunswick-Balke-Collender Co., Chicago, Ill. Game table. Des. 75,952; Aug. 7.

Bergmann, Christian N., assignor to Bergmann Packaging Machine Company, Pittsburgh, Pa. Capping mechanism. 1,680,199; Aug. 7.

Bergmann, Conrad, assignor to Columbia Steel Equipment Company, Philadelphia, Pa. Cabinet. 1,680,081; Aug. 7.

Bergmann Packaging Machine Company. (See Bergmann, Christian N., assignor.)

Bergstan Patents Corporation. (See Stanley, Robert W., assignor.)

Berkland, Thomas H., Chicago, Ill. Radio receiving circuit. 1,679,597; Aug. 7.

Berl, Ernst, Darmstadt, Germany. Manufacture of threads, films, and the like from cellulose derivatives. 1,679,850; Aug. 7.

Berry, Earl E., assignor to Beloit Iron Works, Beloit, Wis. Suction roll. 1,679,598; Aug. 7.

Berry, Thomas D., Markdale, Ontario, Canada. Device for locating defective insulators in electric power lines. 1,679,397; Aug. 7.

Best, Frank E., assignor to Frank E. Best, Inc., Seattle, Wash. Key. 1,679,558; Aug. 7.

Best, Frank E., assignor to Frank E. Best, Inc., Seattle, Wash. Lock-filling machine. 1,679,759; Aug. 7.

Best, Frank E., assignor to Frank E. Best, Inc., Seattle, Wash. Lock combinator. 1,679,760; Aug. 7.

Best, Frank E., Inc. (See Best, Frank E., assignor.)

Bettison, David C., Omaha, Nebr. Relay. 1,679,761; Aug. 7.

Bevier, Hutchinson L., deceased, Duluth, Minn.; The First National Bank of Duluth, executor. Heater. 1,680,005; Aug. 7.

Bevier, Philip H., Brooklyn, N. Y. Building construction. 1,679,599; Aug. 7.

Biggert, Florence C., jr., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Sheet-opening mechanism. 1,680,082; Aug. 7.

Bihl, Henry J. (See Bihl, John P. and H. J.)

Bihl, John P. and H. J., Newport, Ky. Battery-lead connection or clamp. 1,680,201; Aug. 7.

Bilty, Charles H., Milwaukee, and A. E. Tellefsen, West Allis, Wis. Drainpipe guide. 1,679,559; Aug. 7.

Birch, Thomas H., Milwaukee, Wis. Brake-cylinder release valve. 1,679,600; Aug. 7.

Birdsall, Wilfred T., Montclair, N. J., assignor to Trans-Lux Daylight Picture Screen Corporation, New York, N. Y. Slide holder. 1,679,928; Aug. 7.

Bisel, Othello J. (See Bisel, Wilber S. and O. J.)

Bisel, Wilber S. and O. J., assignors of one-half to G. Baudry, Atchison, Kans. Wire-winding machine. 1,679,804; Aug. 7.

Blackmore, Lloyd, Highland Park, assignor to General Motors Corporation, Detroit, Mich. Windshield weatherstrip. 1,680,006; Aug. 7.

Blackshere, Lewis D., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass drawing apparatus. 1,680,240; Aug. 7.

Blades, Arthur, and F. D. Van Valkenburg, Detroit, Mich., assignors, by mesne assignments, to Dodge Brothers, Inc. Gear-chamfering machine and chamfering gear teeth. 1,680,083; Aug. 7.

Blair, James C., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass apparatus. 1,680,241; Aug. 7.

Blair, Rolandis A., Fort Wayne, Ind., assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,679,646; Aug. 7.

Blancafort, Antonio, La Garriga, Barcelona, Spain. Road map. 1,680,200; Aug. 7.

Blank, George W., Philadelphia, Pa. Flexible button. 1,680,033; Aug. 7.

Blumer, Heinrich, Zurich, Switzerland. Three-axled motor vehicle. 1,679,805; Aug. 7.

Bodinny, J. A. (See Pagenhart, Benjamin F., assignor.)

Bockstadter, John H., Hastings, Nebr. Garden implement. 1,79,806; Aug. 7.

Boegehold, Alfred L., assignor to General Motors Research Corporation, Detroit, Mich. Heat-resisting alloy. 1,680,007; Aug. 7.

Bohl, Alexander L., Medford, Oreg. Combined check-book holder and bill fold. 1,679,807; Aug. 7.

Böhling, Rudolf H., assignor to the firm Rohrbogenwerk Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Apparatus for straightening the ends of bent pipes. 1,680,008; Aug. 7.

Bolgiano, Charles W., Washington, D. C. Package-sealing machine. 1,680,009; Aug. 7.

Bolsinger, Samuel S., Roseburg, Oreg. Electric heating element. 1,680,084; Aug. 7.

Bonner-Charter Motor Company. (See Bonner, Clarence E., assignor.)

Bonner, Clarence E., New York, N. Y., assignor to Bonner-Charter Motor Company, Dover, Del. Engine construction. 1,679,463; Aug. 7.

Bonnot Company, The. (See Bonnot, Louis C., assignor.)

Bonnot, Louis C., Louisville, assignor to The Bonnot Company, Canton, Ohio. Disk feeder. 1,679,398; Aug. 7.

Bornmann, Carl A., assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Photographic-film cartridge. 1,679,956; Aug. 7.

Bowers, Frank, assignor, by mesne assignments, to Diamond Power Specialty Corporation, Detroit, Mich. Automatically-operated soot blower. 1,680,125; Aug. 7.

Bowers, Frank, assignor, by mesne assignments, to Diamond Power Specialty Corporation, Detroit, Mich. Boiler-tube cleaner. 1,680,202; Aug. 7.

Boyce, James. (See Anderson, Harry F., assignor.)

Bošić, Dobrivoje, Belgrade, Serbia. Distributor for fluid-pressure brakes. 1,679,348; Aug. 7.

Brady, Charles T., Detroit, Mich. Examination lamp. 1,680,126; Aug. 7.

Bradshaw, Charles T., assignor to E. Carraine, Philadelphia, Pa. Electric motor. 1,679,957; Aug. 7.

Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliesrath, Port Washington, assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y. Poppet-valve mechanism for power actuators and the like. 1,679,762; Aug. 7.

Bragg-Kliesrath Corporation. (See Bragg, C. S., and Kliesrath, assignors.)

Branchen, Leonard E. (See Prachel, C. U., and Branchen.)

Brand, Edward D., assignor to The McClary Manufacturing Co., London, Ontario, Canada. Electric element. 1,680,010; Aug. 7.

Brandes Laboratories Inc. (See Celenza, Nicholas J., assignor.)

Brandon, Arthur H., Los Angeles, Calif. Automatic vibrating power shut-off. 1,679,929; Aug. 7.

Brandt, Carl A. W., Great Neck, assignor to The Superheater Company, New York, N. Y. Boiler. 1,680,127; Aug. 7.

Brandt, Carl A. W., Great Neck, assignor to The Superheater Company, New York, N. Y. High-pressure water-tube boiler. 1,680,128; Aug. 7.

Braun, Philip N. (See Christ, S. R., and Braun.)

Brecht, Emil, and R. Fugmann, Guben, Germany. Blowing machine for the manufacture of hats. 1,679,851; Aug. 7.

Breese, James L., jr., Lake Forest, assignor to Oil Devices Corporation, Chicago, Ill. Burning liquid fuels. 1,680,085; Aug. 7.

Brenek, Hans. (See Rothe, F., and Brenek.)

Bretaud, Joseph V., Detroit, Mich., assignor to Swedish Crucible Steel Company. Wheel and rim mounting. 1,679,892; Aug. 7.

Brewer-Titchener Corporation, The. (See Wenn, F. D., and Stannard, assignors.)

Brewster, Percy D., East Orange, N. J., assignor to Wyko Projector Corporation. Film-feeding device for projectors. 1,679,890; Aug. 7.

Brigg, Walter J., Epping, Sydney, New South Wales, Australia. Shoe. 1,679,400; Aug. 7.

Broady, Harry. (See Flodin, H. G., and Gustafsson, assignors.)

Broderick, Arthur F., Jersey City, N. J. Clothesline-cleaning device. 1,679,401; Aug. 7.

Brogden, Ernest M., assignor to Brogdex Company, Winter Haven, Fla. Fruit-treating apparatus. 1,680,260; Aug. 7.

Brogdex Company. (See Brogden, Ernest M., assignor.)

Brooks, John C., Paterson, N. J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom shuttle. 1,679,647; Aug. 7.

Brown, Anthony W., Gainesville, Fla. Bottle mixing, inspecting, and crating apparatus. 1,679,402; Aug. 7.

Brown, George, Oneonta, and A. B. Appler, Albany, N. Y. Forming projections in recesses. 1,679,349; Aug. 7.

Brown, Harold W., Schenectady, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,680,129; Aug. 7.

Brown-Lipe Gear Company. (See Carhart, George C., assignor.)

Brown, Lloyd J., Evanston, assignor to E. Payson Smith, Chicago, Ill. Quick take-up and release hand brake for railroad cars. 1,679,403; Aug. 7.

Brown, Newton N., assignor to Gold Medal Camp Furniture Manufacturing Company, Racine, Wis. Collapsible pole. 1,679,518; Aug. 7.

Brown, Newton N., assignor to Gold Medal Camp Furniture Manufacturing Company, Racine, Wis. Folding furniture. 1,679,514; Aug. 7.

Brown, Thomas A., Lake Charles, La. Fixture hanger. 1,679,706; Aug. 7.

Brown, Thomas N., Fort Wayne, Ind. Ironing machine. 1,679,808; Aug. 7.

Brown, Walter L., Gravette, Ark. Pitman. 1,679,707; Aug. 7.

Bruce, Alfred W., New York, N. Y. Truck for railroad vehicles. 1,679,601; Aug. 7.

Brune, Friederich, Milwaukee, Wis. Machine for making sheet-metal pipe elbows. 1,679,893; Aug. 7.

Brunow, Gunther H., Port Arthur, Tex. Relief valve. 1,679,763; Aug. 7.

Brunswick-Balke-Collender Co., The. (See Berg, Hans, assignor.)

Buckeye Steel Castings Company, The. (See Bush, Samuel P., assignor.)

Buckeye Steel Castings Company, The. (See Wolfe, Harry H., assignor.)

Buckingham, Benjamin J., assignor to M. M. Mayer, Chicago, Ill. Display apparatus. 1,680,034; Aug. 7.

Buckingham, Benjamin J., assignor to M. M. Mayer, Chicago, Ill. Display apparatus. 1,680,035; Aug. 7.

Bucky, Gustav, New York, N. Y. X-ray tube. 1,679,894; Aug. 7.

Buda Company, The. (See Morrill, Lewis H., assignor.)

Bullis, Henry C., Wilmington, Del. Motion-picture strip. 1,679,708; Aug. 7.

Bullock, Edward W., and A. P. Slade, assignors to Gleason Works, Rochester, N. Y. Gear-grinding machine. 1,679,809; Aug. 7.

Burdette, Richard S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Method of and apparatus for treating solid-tire material. 1,679,560; Aug. 7.

Burner, William L. (See Schmohl, A. C., and Burner.)

Burson Knitting Company. (See Parker, William S., assignor.)

Burt, William J., Holland, Mich. Signaling device for automobiles. 1,679,810; Aug. 7.

Burtnett, Everett R., Los Angeles, Calif., assignor to The Automotive Valves Corporation, Reno, Nev. Internal-combustion engine. 1,679,958; Aug. 7.

Burtnett, Everett R., Los Angeles, Calif., assignor to The Automotive Valves Corporation, Reno, Nev. Internal-combustion engine. 1,679,959; Aug. 7.

Burton, Warren D. (See Page, C. B., and Burton.)

Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car-truck construction. 1,679,811; Aug. 7.

Bushwick National Bank. (See Furedy, F., Schroth, and Favini, assignors.)

Buswell, Leslie, and J. H. Hammond, jr., Gloucester, Mass., said Buswell assignor to said Hammond. Pipe organ. 1,680,036; Aug. 7.

Campbell, A. S., Company. (See Campbell, Alphonso S., assignor.)

Campbell, Alphonse S., West Medford, assignor to A. S. Campbell Company, East Boston, Mass. Curtain window. 1,680,011; Aug. 7.

Cannard, William H., Green Bay, Wis. Crepe and method of and apparatus for making the same. 1,680,203; Aug. 7.

Cannstatter Misch- und Knetmaschinen-Fabrik, Cannstatter Dampf-Backofen-Fabrik, Werner & Pfleiderer. (See Mack, Martin, assignor.)

Cantrell, Frank J., San Francisco, Calif. Plumbing fixture. 1,679,561; Aug. 7.

Carhart, George C., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Transmission gearing. 1,679,812; Aug. 7.

Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Constant-alarm device for alarm valves. 1,679,404; Aug. 7.

Carlson, Signe, Chicago, Ill. Comb for long bobs. 1,679,895; Aug. 7.

Carlson, Wendell L., Schenectady, N. Y. High-frequency apparatus. 1,680,086; Aug. 7.

Carpenter, Charles A., London, England. Detachable lock. 1,679,648; Aug. 7.

Carr Fastener Company. (See Carr, Moses F., assignor.)

Carr, Moses F., Lexington, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,680,244; Aug. 7.

Carraine, Eugene. (See Bradshaw, Charles T., assignor.)

Cartlidge, Frank, Cincinnati, Ohio, assignor to Sullivan Machinery Company. Mining machine. 1,680,246; Aug. 7.

Carver, Fred S., East Orange, N. J. Press pot and making same. 1,679,464; Aug. 7.

Celanese Corporation of America. (See Ellis, G. H., Olpin, and Miller, assignors.)

Celenza, Nicholas J., Brooklyn, N. Y., assignor, by mesne assignments, to Brandes Laboratories Inc., Newark, N. J. Electrical connection. 1,679,960; Aug. 7.

Centrifix Corporation. (See Hawley, Charles G., assignor.)

Certain-teed Products Corporation. (See Speer, Alexander S., assignor.)

Champion, Albert, assignor to A C Spark Plug Company, Flint, Mich. Instrument panel. 1,680,012; Aug. 7.

Chandler, Daniel L., Boston, assignor, by mesne assignments, to W. H. Whitcomb, Newton, Mass. Coin-controlled and change-making turnstile apparatus. 1,679,930; Aug. 7.

Charles, Maurice, Courbevoie, France. Hydraulic braking apparatus. 1,680,204; Aug. 7.

Charpentier, Henri, Lynbrook, N. Y. Jar or similar container. Des. 75,953; Aug. 7.

Charpentier, Henri, Lynbrook, N. Y. Jar or similar container. Des. 75,954; Aug. 7.

Chase Appliance Corporation. (See Holinger, Emil F., assignor.)

Chemische Fabrik auf Actien vorm. E. Schering. (See Jordan, Hans, assignor.)

Chicago-Cleveland Car Roofing Company. (See Williams, Theron H., assignor.)

Chicago Metallic Manufacturing Co. (See Langel, Adrien L., assignor.)
Chicago Pneumatic Tool Company. (See Meunier, Leon F., assignor.)
Childs, William L. (See Humason, G. A., and Childs.)
Chilton, Roland, Keyport, N. J., assignor, by mesne assignments, to Aeromarine Starter Company, Inc. Starter mechanism. 1,679,602; Aug. 7.
Christ, Servatius R., and P. N. Braun, assignors to The Prosperity Company Inc., Syracuse, N. Y. Pressing-machine plaiting attachment. 1,679,813; Aug. 7.
Chryst, William A., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,679,405; Aug. 7.
Church, Charles F., et al. (See Reich, Otto F., assignor.)
Church, William T., et al. (See Reich, Otto F., assignor.)
Cicero, William A., Birchdale, Minn. Combined cant hook and ax. 1,679,814; Aug. 7.
Cincinnati Milling Machine Company, The. (See Einstein, S., Nenninger, and Isler, assignors.)
Clarke, Alex A., Chicago, Ill. Portable electric jointer. 1,679,648; Aug. 7.
Clemenger, Francis J., New York, N. Y. Combined receptacle and buffer. 1,679,603; Aug. 7.
Cleveland Folding Machine Company, The. (See Hitchcock, Reuben, assignor.)
Cleveland Graphite Bronze Company, The. (See Johnson, Carl W., assignor.)
Clifford Manufacturing Co. (See Woods, John E., assignor.)
Cline, John J., Alix, Ark. Tongs. 1,680,205; Aug. 7.
Cobb, J. Forrest, Portland, Oreg., assignor to Moore Dry Kiln Company, Jacksonville, Fla. Dry kiln and the art of kiln drying. 1,680,013; Aug. 7.
Cold Spring Granite Company. (See Mondloch, John B., assignor.)
Colt's Patent Arms Manufacturing Company. (See Conner, Benjamin F., assignor.)
Columbia Steel Company, The (See Townsend, Arthur J., assignor.)
Columbia Steel Equipment Company. (See Bergmann, Conrad, assignor.)
Colvin, Charles H., assignor to Pioneer Instrument Company, Brooklyn, N. Y. Magnetic compass. 1,679,764; Aug. 7.
Combustion Engineering Corporation. (See Jackson, G. P., and Savage, assignors.)
Combustion Engineering Corporation. (See Lundgren, Edwin, assignor.)
Commercial Cable Company. (See Connery, Alder F., assignor.)
Commercial Shearing & Stamping Company, The. (See Proctor, Robert V., assignor.)
Cone, Frank L., Windsor, Vt. Stock pusher. 1,679,515; Aug. 7.
Conner, Benjamin F., assignor to Colt's Patent Arms Manufacturing Company, Hartford, Conn. Medical-tablet container. 1,680,130; Aug. 7.
Connery, Alder F., Jamaica, assignor to Commercial Cable Company, New York, N. Y. Synchronizing system. 1,679,852; Aug. 7.
Conover Company, The. (See Conover, George W., assignor.)
Conover, George W., assignor to The Conover Company, Chicago, Ill. Dishwashing machine. 1,679,465; Aug. 7.
Conroy, James T., A. Lamble, and J. J. Latham, assignors to The United Alkali Company Limited, Liverpool, England. Drying bleaching powder. 1,680,087; Aug. 7.
Continental Gin Company. (See Elliott, Thomas, assignor.)
Continental Roofing & Manufacturing Company, The. (See Dohm, Charles W., assignor.)
Cook, Harry, Sag Harbor, assignor to Joseph Fahys & Company, New York, N. Y. Forming watchcases. 1,679,466. Aug. 7.
Cook, Joel R., Cleveland, Ohio, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Thermostatic control for electric switches. 1,679,649; Aug. 7.
Cooke, George W., Forest Hills, assignor, by mesne assignments, to Standard Faucet Works, Inc., New York, N. Y. Combination bung and faucet. 1,679,604; Aug. 7.
Cooper, Charles G., Yuma, Ariz. Hose coupler. 1,679,709; Aug. 7.
Copper Plate Sheet and Tube Company. (See Watkins, William E., assignor.)
Cordes, Walter, Gotha, Germany. Dental engine. 1,680,206; Aug. 7.
Corl, Jacob, Mount Ida, Va. Railway-tie plate. 1,680,131; Aug. 7.
Cornell, John B., et al. (See de Tartas, Augustus R., assignor.)
Cornell Wood Products Company. (See Bees, Paul M., assignor.)
Cottin, Cyrille E., assignor to Automobiles Cottin & Desgouttes, Societe Anonyme, Lyon, France. Springing of motor vehicles. 1,679,853; Aug. 7.
Coune, Felix, Chicago, Ill. Hair-waving apparatus. 1,679,563; Aug. 7.
Courtot, Louis, Paris, France, assignor to American Radiator Company, New York, N. Y. Combined boiler and heating device. 1,679,406; Aug. 7.
Covell, Arleigh G., Corunna, Mich. Degree compass. 1,679,931; Aug. 7.
Cox, Cary S., assignor of one-half to J. M. Cox and one-half to F. C. Whitt, Fresno, Calif. Cotton gin. 1,680,132; Aug. 7.
Cox, Jesse M., et al. (See Cox, Cary S., assignor.)
Cox, Joseph L. and P. F., Battle Creek, Mich. Printing press and folder. 1,679,650; Aug. 7.
Cox, Paul F. (See Cox, Joseph L. and P. F.)
Coyte, William A., assignor to J. Lyons and Company, Limited, London England. Lining carboard boxes. 1,679,407; Aug. 7.
Cozzens Trading Company. (See Goss, Harry T., assignor.)
Craig, James A., East Cleveland, assignor to The Warner & Swasey Company, Cleveland, Ohio. Auxiliary slide support for machine tools. 1,680,088; Aug. 7.
Crain, Lewis F. (See Allerheiligen, A. H., Crain, and Erichsen.)
Cramer, Harry I., assignor to The Sterling Jewelry Company, Dayton, Ohio. Wrist watch. Des. 75,955; Aug. 7.
Crans, Lester M., Venice, Calif. Blow-out preventer. 1,679,962; Aug. 7.
Crawford, Ward S., Ottawa, Kans. Door-mounting means. 1,680,133; Aug. 7.
Creasey, Benjamin J., assignor to E. S. and A. Robinson Limited, Bristol, England. Cardboard and like box or container. 1,679,710; Aug. 7.
Crofton, Wilfred B., Johannesburg, Transvaal, South Africa. Diaphragm pump. 1,680,089; Aug. 7.
Crompton & Knowles Loom Works. (See Brooks, John C., assignor.)
Crompton & Knowles Loom Works. (See Findlay, George P., assignor.)
Crompton & Knowles Loom Works. (See Jennings, V. H., and Watson, assignors.)
Crompton & Knowles Loom Works. (See Lundrgren, William E., assignor.)
Crompton & Knowles Loom Works. (See May, Clarence L., assignor.)
Crompton & Knowles Loom Works. (See McGuiness, Benjamin F., assignor.)
Crompton & Knowles Loom Works. (See Nelson, Samuel A., assignor.)
Crompton & Knowles Loom Works. (See Steere, Clarence A., assignor.)
Crompton & Knowles Loom Works. (See Unwin, Kenneth J., assignor.)
Crompton & Knowles Loom Works. (See Wakefield, Walter H., assignor.)
Crowell, John H., Tisbury, Mass. Toothpick. 1,679,651; Aug. 7.
Cuff, James E., assignor to American Flyer Manufacturing Company, Chicago, Ill. Highway signal for toy railways. Des. 75,956; Aug. 7.
Cuff, James E., assignor to American Flyer Manufacturing Company, Chicago, Ill. Danger signal for toy railways. Des. 75,957; Aug. 7.
Cullmann, Ernst, Munich-Gladbach, assignor to the firm Speck & Bonsmann Aktiengesellschaft, Haan, Germany. Self-closing umbrella. 1,680,090; Aug 7.
Cutler-Hammer Mfg. Co., The. (See Wiegand, H. J., and Packard, assignors.)
Dale, Ferris F., and I. W. Grace, Martinborough, New Zealand. Water-heating system. 1,680,014; Aug. 7.
Dalrymple, James M., Tulsa, Okla. Checker-game board. 1,679,652; Aug. 7.
Darby, James K., Dayton, assignor to F. C. Trowbridge, Hamilton, Ohio. Paper-making machine. 1,679,854; Aug. 7.
Davis, Alfred U., Baltimore, Md., assignor to Davis Instrument Manufacturing Company, Incorporated. Blast magneto. 1,680,261; Aug. 7.
Davis, Ernest W., Oak Park, assignor to The Bassick Manu-Syracuse, N. Y. Actuating mechanism for pressing machines. 1,679,815; Aug. 7.
Davis, Ernest W., Oak Park, assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricant compressor. 1,679,855; Aug. 7.
Davis, Frank O. (See Ditsch, W., and Davis.)
Davis, George C., Lansing, assignor to General Motors Corporation, Detroit, Mich. Runningboard bolt. 1,680,015; Aug. 7.
Davis Instrument Manufacturing Company. (See Davis, Alfred U., assignor.)
Davis, James H., and A. H. Valentine, assignors to Moraine Products Company, Dayton, Ohio. Briquetting apparatus. 1,679,408; Aug. 7.
Dawe, Arthur L., Montreal, Quebec, Canada. Paper-calendering device. 1,679,711; Aug. 7.
Dawley, James S., New York, N. Y. Display device. 1,680,016; Aug. 7.
Dayton Pump & Manufacturing Company, The. (See Eickmeyer, E. E., and Jones, assignors.)
Deere & Company. (See White, Charls H., assignor.)
De Ferranti, Sebastian Z., assignor to Ferranti, Limited, Hollinwood, England. Direct-current electricity meter. 1,679,712; Aug. 7.
De Forest, Lee, and C. V. Logwood, assignors, to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Radio signaling system. 1,680,207; Aug. 7.
De Forest Radio Telephone and Telegraph Company. (See de Forest, L., and Logwood, assignors.)
De Forest Radio Telephone and Telegraph Company. (See Keator, Randall M., assignor.)

Delaney, Andrew E., Ashland, Wis. Snow plow. 1,679,409; Aug. 7.
Delco-Remy Corporation. (See Chryst, William A., assignor.)
Delco-Remy Corporation. (See Elsey, George W., assignor.)
Del Marmol, Charles J., Philadelphia, Pa. Adjustable combined sound box and radiophone. 1,679,932; Aug. 7.
Delory, Michael P., Concord, Mass. Spring. 1,679,410; Aug. 7.
Dennison Manufacturing Company. (See Garniss, Arthur L., assignor.)
Dennison, Robert L., New York, N. Y. Differential gear. 1,680,134; Aug. 7.
De Potter, Edward F., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Loading device for conveying systems. 1,679,411; Aug. 7.
De Potter, Edward F., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Unloading device for conveying systems. 1,679,412; Aug. 7.
Desautels, Charles H., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Bead-covering machine. 1,680,091; Aug. 7.
De Tartas, Augustus R., Long Island City, assignor to E. C. Weller and E. W. Duke, New York, N. Y., and J. B. Cornell, Orange, N. J. Antiglare attachment for headlights. 1,680,037; Aug. 7.
Detwiler, Daniel W., Rosebud, Alberta, assignor to Western Steel Products Limited, Winnipeg, Canada. Combined grain cleaner and elevator. 1,679,516; Aug. 7.
Diamond Power Specialty Corporation. (See Bowers, Frank, assignor.)
Dickey, Charles T., Elizabeth, assignor to Rodic Rubber Company, Garwood, N. J. Machine for extruding tubular articles. 1,679,350; Aug. 7.
Di Gaudio, John, Brooklyn, N. Y., assignor to Modern Lighting Fixture Co., Inc. Lighting-fixture wall bracket or article of analogous nature. Des. 75,958; Aug. 7.
Di Gaudio, John, Brooklyn, N. Y., assignor to Modern Lighting Fixture Co., Inc. Chandelier. Des. 75,959; Aug. 7.
Dinsmoor, John L., New York, N. Y. Seal. 1,679,467; Aug. 7.
Ditsch, Walter, and Frank O. Davis, Mishawaka, Ind. Dustless ash container. 1,679,856; Aug. 7.
Dixson, Harry, Des Moines, Iowa, assignor to Rolscreen Company. Rolling-window-screen construction. 1,680,092; Aug. 7.
Diouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 75,960; Aug. 7.
Diouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 75,961; Aug. 7.
Diouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 75,962; Aug. 7.
Diouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 75,963; Aug. 7.
Diouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 75,964; Aug. 7.
Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Lighting fixture. 1,680,093; Aug. 7.
Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Lighting fixture. 1,680,094; Aug. 7.
Dobson, William A., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,680,135; Aug. 7.
Dodds, Lee L. (See Griffith, T. E., and Dodds.)
Dodge, Adlel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,679,896; Aug. 7.
Dodge Brothers. (See Blades, A., and Van Valkenburg, assignor.)
Dodge Brothers, Inc. (See Moore, Benjamin R., assignor.)
Dodge, H. C., Incorporated. (See Wiard, John B., assignor.)
Dodge, Harry, Danvers, Mass. Composition of matter for treating hides and skins. 1,680,136; Aug. 7.
Doerr, Wilhelm E., New York, N. Y., and E. A. Lehmann, Akron, Ohio, assignors to Luftschiffbau Zeppelin Gesellschaft mit Beschränkter Haftung, Friedrichshafen, Bodensee, Germany. Gas container for airships. 1,679,564; Aug. 7.
Dohm, Charles W., assignor to The Continental Roofing & Manufacturing Company, Baltimore, Md. Cutting roll. 1,679,351; Aug. 7.
Domizi, David F., Cleveland, Ohio. Universal joint. 1,680,095; Aug. 7.
Dorment, Frank C., Wellington, Ohio, assignor of one-half to A. T. Fletcher, Washington, D. C. Vaporizing inhaler. 1,679,816; Aug. 7.
Dorsaneo, William V., Devon, Pa. Combination saw and square. 1,679,933; Aug. 7.
Dow Chemical Company, The. (See Gann, John A., assignor.)
Drake, Ralph E., Jamaica, assignor, by mesne assignments, to Anaconda Sales Company, New York, N. Y. Metal-surfaced material. 1,680,096; Aug. 7.
Draper, James, San Juan, P. R. Washing apparatus. Re17,063; Aug. 7.
Duby, John F., Dorchester, Mass. Geometric instrument. 1,679,934; Aug. 7.
Duckworth, Harry, Overland, Mo., assignor to United Shoe Machinery Corporation, Paterson, N. J. Trimming machine. 1,679,352; Aug. 7.
Duke, E. Woodward, et al. (See de Tartas, Augustus R., assignor.)
Dulany, George W., jr. (See Page, C. B., and Burton, assignors.)
Dulaney, Robert N., Blountville, Tenn. Selective-gear-shifting mechanism. 1,679,353; Aug. 7.
Dunbar, Frank H. (See Striegel, Leslie E., assignor.)
Dunbar, Sarah, Lawton, W. Va. Stocking protector. 1,680,137; Aug. 7.
Duncan, Arthur L., Piedmont, Calif. Method and apparatus for trimming fruit. 1,679,817; Aug. 7.
Duncan, Joseph S., and H. E. Hubbard, assignors, by mesne assignments, to Addressograph Company, Chicago, Ill. Ribbon spool. 1,679,713; Aug. 7.
Dunzweiler, Carl J., assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage battery. 1,680,038; Aug. 7.
Du Pont, E. I., de Nemours & Company. (See Tanberg, A. P., and Kramer, assignors.)
Durand & Huguenin S. A. (See Voitz, Théodore, assignor.)
Eason, Andrew J., San Bernardino, Calif. Car seal. 1,679,963; Aug. 7.
Eastman Kodak Company. (See Farrow, Edward S., jr., assignor.)
Eastman Kodak Company. (See Newton, Alfred J., assignor.)
Eastman Kodak Company. (See Prachel, C. U., and Branchen, assignors.)
Eaton, William S., Sag Harbor, N. Y. Printing plate. 1,680,097; Aug. 7.
Eaves, Ruel H., Needles, Calif. Valve-reseating tool and gauge. 1,679,605; Aug. 7.
Eberhart, Monnie L., New Lisbon, Wis. Hair-waving device. 1,679,653; Aug. 7.
Economy Baler Company. (See Langford, G. W., Barrows, and Good, assignors.)
Edelmann, E., & Co. (See Edelmann, Leo, assignor.)
Edelmann, Leo, assignor to E. Edelmann & Co., Chicago, Ill. High-pressure grease-gun connection. 1,680,138; Aug. 7.
Edelmann, Leo, assignor to E. Edelmann & Co., Chicago, Ill. Road light. 1,680,139; Aug. 7.
Edge, Selwyn F. (See Smith, Sydney, assignor.)
Edwards, Clarence G., Los Angeles, Calif. Counterthrust pressure piston. 1,679,964; Aug. 7.
Efcolite Corporation. (See Von Nessen, Walter, assignor.)
Ehrhart, Raymond N., assignor to Elliott Company, Pittsburgh, Pa. Centrifugal pump. 1,680,208; Aug. 7.
Eiane, Halvor O., Detroit Harbor, Wis. Parachute. 1,679,714; Aug. 7.
Eickmeyer, Earl E., and H. L. Jones, assignors to The Dayton Pump & Manufacturing Company, Dayton, Ohio. Gasoline pumping apparatus. Des. 75,965; Aug. 7.
Einstein, Sol, L. F. Nenninger, Cincinnati, and H. R. Isler, Norwood, assignors to The Cincinnati Milling Machine Company, Oakley, Cincinnati, Ohio. Cutter grinder. 1,679,413; Aug. 7.
Eisenberg, Robert, and M. Rajewsky, Chicago, Ill. Vanity case and pocketbook for animal heads. 1,679,965; Aug. 7.
Electrolock Manufacturing Company, The. (See Hemingway, Wilson, jr., assignor.)
Electrolux Servel Corporation. (See Munters, Carl G., assignor.)
Elliott Company. (See Ehrhart, Raymond N., assignor.)
Elliott-Fisher Company. (See Jensen, Alfred, assignor.)
Elliott-Fisher Company. (See Lentz, Laurence E., assignor.)
Elliott, Thomas, Birmingham, Ala., assignor to Continental Gin Company. Gin-breast lift. 1,680,140; Aug. 7.
Ellis, George H., H. C. Olpin, and W. B. Miller, Spondon, near Derby, England, assignors to Celanese Corporation of America. Treatment of cellulose derivatives. 1,679,935; Aug. 7.
Elmore, Charles F., assignor to Gaw-O'Hara Envelope Company, Chicago, Ill. Mailing container for pencils and other articles. 1,679,897; Aug. 7.
Elsey, George W., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Connecting the operating members of vehicle rebound checks with vehicle parts. 1,679,414; Aug. 7.
Embrey, Edwin L., Springfield, Mo. Adjustable window jack. 1,679,961; Aug. 7.
Emmes, William T., Cincinnati, Ohio. Reversing and braking mechanism for machine tools. 1,680,141; Aug. 7.
Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Ship propulsion system. 1,680,209; Aug. 7.
Endert, Dirk C., jr. (See Mulder, J., and Endert.)
Engineer Company, The. (See McLean, Embury, assignor.)
Engle, Edgar W., Lake Forest, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Rectifier electrolyte. 1,680,210; Aug. 7.
Enright, John W., New Orleans, La. Fuel injector for internal-combustion engines. 1,679,818; Aug. 7.

Enterprise Aluminum Company, The. (See Krause, Richard F., assignor.)
Erichsen, Chris. (See Allerheiligen, A. H., Crain, and Erichsen.)
Evans, John E., New York, and F. H. Griffiths Yonkers, assignors to The Reliable Automatic Sprinkler Co. Inc., New York, N. Y. Retarding chamber for automatic sprinkler systems. 1,680,142; Aug. 7.
Faber, August, New York, N. Y. Dirigible airship. 1,679,565; Aug. 7.
Fageol, Rollie B., Los Angeles, Calif. Toy vehicle. 1,679,819; Aug. 7.
Fahys, Joseph, & Company. (See Cook, Harry, assignor.)
Fairchild, Sherman M., and E. R. Morton, New York, N. Y.; said Morton assignor to said Fairchild. Gyroscopic control of cameras and other optical devices. 1,679,354; Aug. 7.
Falck, Joseph E., assignor to National Casket Company, Pittsburgh, Pa. Burial casket. Des. 75,966; Aug. 7.
Falck, Joseph E., assignor to National Casket Company, Pittsburgh, Pa. Burial casket. Des. 75,967; Aug. 7.
Falck, Joseph E., assignor to National Casket Company, Pittsburgh, Pa. Burial casket. Des. 75,968; Aug. 7.
Falck, Joseph E., assignor to National Casket Company, Pittsburgh, Pa. Burial casket. Des. 75,969; Aug. 7.
Falck, Joseph E., assignor to National Casket Company, Pittsburgh, Pa. Burial casket. Des. 75,970; Aug. 7.
Fansteel Products Company. (See Engle, Edgar W., assignor.)
Farmer, John F., Indianapolis, Ind. Antiglare motor-vehicle lamp. 1,680,211; Aug. 7.
Farnsworth, Marshall, Southbridge, Mass. Machine for drilling and pinning knife handles and the like. 1,679,415; Aug. 7.
Farrand, Clair L., Forest Hills, N. Y., and E. Ross, East Orange, N. J.; said Ross assignors to Farrand Mfg. Co. Inc., Long Island City, N. Y. Electromagnetic device. 1,679,765; Aug. 7.
Farrand Mfg. Co. Inc. (See Farrand, C. L., and Ross, assignors.)
Farrow, Edward S., jr., assignor to Eastman Kodak Company, Rochester, N. Y. Making cellulose acetate. 1,679,966; Aug. 7.
Faubert, Harry W., and E. E. Wheelock, Woonsocket, R. I. Denture brush. Des. 75,971; Aug. 7.
Favini, William. (See Furedy, F., Schroth, and Favini.)
Feather, George, assignor to William Asquith Limited, Halifax, England. Electrically-driven drilling machine and like machine tool. 1,680,212; Aug. 7.
Feather, George, assignor to William Asquith Limited, Halifax, England. Radial-drilling machine. 1,680,213; Aug. 7.
Feather, George, assignor to William Asquith Limited, Halifax, England. Electrically-driven radial drill. 1,680,214; Aug. 7.
Fedders, John M., Buffalo, N. Y., assignor to Fedders Manufacturing Company, Inc. Core for radiators. 1,679,517; Aug. 7.
Fedders Manufacturing Company. (See Fedders, John M., assignor.)
Fedders Manufacturing Company. (See Siegel, Franklin G., assignor.)
Federal Glass Company, The. (See Middendorf, David L., assignor.)
Felger, Bob, Ashtabular, Ohio. Quick-change link. 1,679,416; Aug. 7.
Ferranti, Limited. (See De Ferranti, Sebastian Z., assignor.)
Ferro, Rocco, Utica, N. Y. Stock and dies with oiling device. 1,679,820; Aug. 7.
Ficklen, Carter B., Fortress Monroe, Va. Indicator. 1,679,821; Aug. 7.
Fiebke, Carl F. W., Athens, assignor of one-tenth to O. Rademacher, Westboro, Wis. Wheel bridging for bad roads. 1,680,143; Aug. 7.
Fields, Alvin G. (See McHugh, J. E., and Fields.)
Files, Adino F., Maumee, Ohio. Dispensing machine. 1,679,967; Aug. 7.
Findlay, George P., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Tube-frame bracket. 1,679,654; Aug. 7.
Fine, Bernard M., assignor to Sanitary Products Corporation of America, Philadelphia, Pa. Web-cutting mechanism. 1,679,655; Aug. 7.
First National Bank of Duluth, The, executor. (See Bevier, Hutchinson L., assignor.)
Fischer, Albert C., Chicago, Ill. Preparing expansion-joint composition. 1,680,144; Aug. 7.
Fischer, Philip A., New York, N. Y., assignor to Adjusto Hat Corporation. Adjustable hat. Re17,064; Aug. 7.
Fish, Spencer C., La Crosse, Wis. Receptacle-holding automobile accessory. 1,679,715; Aug. 7.
Fisk Rubber Company, The. (See Desautels, Charles H., assignor.)
Fisk Rubber Company, The. (See Lehman, Paul W., assignor.)
Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
Fisk Rubber Company, The. (See Wikle, George F., assignor.)
Flash Radio Corporation. (See Harding, Albert M., assignor.)
Flath, Otto S. (See Lollis, Benjamin F., assignor.)
Fletcher, Albert T. (See Dorment, Frank C., assignor.)
Flodin, Henning G., Roslags-Nasby, and E. G. T. Gustafson, Stockholm; said Flodin assignor to H. Brondy, Stockholm, Sweden. Producing volatile metals from their sulphides. 1,680,098; Aug. 7.
Ford, Hannibal C., Jamaica, assignor to Ford Instrument Company, Inc., New York, N. Y. Range converter. 1,679,936; Aug. 7.
Ford Instrument Company. (See Ford, Hannibal C., assignor.)
Fornaca, Guido, Turin, Italy. Two stroke engine of the opposed-piston type. 1,680,017; Aug. 7.
Forssblad, Nils R., Vasteras, Sweden. Heat exchanger. 1,680,145; Aug. 7.
Fostoria Glass Co. (See Magee, William H., assignor.)
Fowle, Frank F., Chicago, Ill. Composite-metal product. 1,679,518; Aug. 7.
France, Talbott H., Brooklyn, N. Y. Recovery of precious minerals. 1,679,857; Aug. 7.
Frankart, Inc. (See Von Frankenberg, Arthur, assignor.)
Franklin Railway Supply Company. (See Haskell, Broderick, jr., assignor.)
Frasier, Harry E., assignor of one-third to O. C. Marsh, Devon, Conn. Battery connection. 1,679,716; Aug. 7.
Friedel, Paul, Bohlen, Germany. Device for stopping rail road vehicles independently of the driver. 1,680,215; Aug. 7.
Friend Bentley Elements Company, Limited, The. (See Friend, E. H., and Bentley, assignors.)
Friend, Edward H., and A. G. Bentley, Holborn, London, England, assignors to The Friend Bentley Elements Company Limited, Melbourne, Australia. Internal-combustion engine. 1,679,766; Aug. 7.
French, Herbert F. (See Hill, Dwight B., assignor.)
Frey, Karl, Ennetbaden, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Draining the low-pressure blading of steam turbines. 1,679,519; Aug. 7.
Fugmann, Rudolf. (See Brecht, E., and Fugmann.)
Fuller Lehigh Company. (See Bailey, Ervin G., assignor.)
Fulweiler, Walter H., Wallingford, assignor to The U. G. I. Contracting Company, Philadelphia, Pa. Purifying gases. 1,679,858; Aug. 7.
Furedy, Frank, Montclair, C. Schroth, and W. Favini, Bloomfield, N. J., assignors, by mesne assignments, to Bushwick National Bank. Writing implement. 1,679,566; Aug. 7.
Gaffney, John. (See Ryan, J. J., and Gaffney.)
Galat, John, Waterbury, Conn. Automatic fastener. 1,680,266; Aug. 7.
Gallon Iron Works & Mfg. Co., The. (See Arndt, Franklin E., assignor.)
Gann, John A., assignor to The Dow Chemical Company, Midland, Mich. Light metal alloy. 1,680,262; Aug. 7.
Garnier, Edward J., Gary, Ind. Gas pumping system. 1,679,417; Aug. 7.
Garay, Eugene, New York, N. Y. Clock case. Des. 75,972. Aug. 7.
Gardner, John E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,679,567; Aug. 7.
Garniss, Arthur L., Springfield, assignor to Dennison Manufacturing Company, Framingham, Mass. Display case. 1,679,468; Aug. 7.
Garrison, Lloyd, Salt Lake City, Utah. Automatic stoker control. 1,679,418; Aug. 7.
Gatchell, Frederick D., New York, N. Y. Oil package. 1,679,968; Aug. 7.
Gauger, Frank A., and R. W. Johnson, assignors, by mesne assignments, to Time-O-Stat Corporation, Milwaukee, Wis. Heater appliance. 1,680,049; Aug. 7.
Gauger, Frank A., R. W. Johnson, and A. J. Neuser, Milwaukee, Wis. Pilot and burner control apparatus. 1,680,263; Aug. 7.
Gaw-O'Hara Envelope Company. (See Elmore, Charles F., assignor.)
Gaw-O'Hara Envelope Co. (See Olgay, Albert, assignor.)
Gearhart, Ralph W., assignor to Gearhart Sales Cabinet Co. Inc., Clearfield, Pa. Combination freezer and refrigerator cabinet. 1,679,656; Aug. 7.
Gearhart Sales Cabinet Co. Inc. (See Gearhart, Ralph W., assignor.)
Geiger, Josef, assignor to Maschinenfabrik Augsburg-Nuernberg, Aktiengesellschaft, Augsburg, Germany. Rail vehicle. 1,679,469; Aug. 7.
General Alloys Company. (See Van Stone, Edward P., assignor.)
General Cable Corporation. (See Simons, Donald M., assignor.)
General Chemical Company. (See Melkiejohn, Roy M., assignor.)
General Electric Company. (See Brown, Harold W., assignor.)
General Electric Company. (See Emmet, William L. R., assignor.)
General Electric Company. (See Herzog, Wilhelm, assignor.)
General Electric Company. (See Jorgensen, Hans G., assignor.)
General Motors Corporation. (See Blackmore, Lloyd, assignor.)
General Motors Corporation. (See Davis, George C., assignor.)
General Motors Corporation. (See Hunt, Ormond E., assignor.)

General Motors Corporation. (See Knudsen, William S., assignor.)
General Motors Corporation. (See Lenz, Arnold, assignor.)
General Motors Corporation. (See Schjolin, Eric.)
General Motors Corporation. (See Schwager, Henry A., assignor.)
General Motors Corporation. (See Williams, Charles E., assignor.)
General Motors Research Corporation. (See Boegehold, Alfred L., assignor.)
General Motors Research Corporation. (See Jacobs, James M. H., assignor.)
General Motors Research Corporation. (See Short, Charles R., assignor.)
General Motors Research Corporation. (See Summers, Caleb E., assignor.)
Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Heat-insulating lid. 1,679,419; Aug. 7.
Gilbert, Israel B., Cincinnati, Ohio. Check valve. 1,679,898; Aug. 7.
Gillespie, Jayson E., Normal, Nebr. Oil-tube strainer. 1,680,146; Aug. 7.
Gillette-Vibber Co., The. (See Vibber, Wheeler H., assignor.)
Gilowitz, Benjamin, New York, N. Y. Tap sole. 1,680,147; Aug. 7.
Giroux, Charles A., Montreal, Quebec, Canada. Changeable sign. 1,679,520; Aug. 7.
Glancy, Warren E., Waltham, Mass. Battery box. 1,679,657; Aug. 7.
Gleason Works. (See Bullock, E. W., and Slade, assignors.)
Gleason Works. (See Stonebraker, Harold E., assignor.)
Gminder, Emil, Reutlingen, Germany. Cotton fabric and manufacturing the same. 1,679,767; Aug. 7.
Gobin, André F., Brooklyn, N. Y. Auxiliary water heater. 1,679,768; Aug. 7.
Goeltz, Louis H., Milwaukee, Wis. Pipe cutter. 1,679,470; Aug. 7.
Goetschius, Dalton M., Canonsburg, assignor to Radium Dial Company, Pittsburgh, Pa. Method and apparatus for stenciling. 1,679,770; Aug. 7.
Gold Medal Camp Furniture Manufacturing Company. (See Brown, Newton N., assignor.)
Goldstein, William. (See Gray, William C., assignor.)
Gonard, John L., Englewood Cliffs, N. J., assignor, by mesne assignments, to Kant-Back Corporation. Device for preventing retrograde movement. 1,680,148; Aug. 7.
Good, Charles W. (See Langford, G. W., Barrows, and Good.)
Good Inventions Co. (See Good, John, assignor.)
Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Engine-heating apparatus. 1,679,521; Aug. 7.
Goodyear Tire & Rubber Company, The. (See Burdette, Richard S., assignor.)
Goodyear Tire & Rubber Company, The. (See Haase, Jorgen I., assignor.)
Goodyear Tire & Rubber Company, The. (See Hall, Lindsay, S., assignor.)
Goodyear Tire & Rubber Company, The. (See Kimball, Norris E., assignor.)
Goodyear Tire & Rubber Company, The. (See Roth, Charles H., assignor.)
Goodyear Tire & Rubber Company, The. (See Sebrell, Lorin B., assignor.)
Goodyear Tire & Rubber Company, The. (See Washburn, Leon S., assignor.)
Gordon, Kenneth. (See Slade, R. E., and Gordon.)
Gorse, Frank W., Co. (See Hall, Ray C., assignor.)
Goss, Harry T., Rutherford, N. J., assignor to Cozzens Trading Company, Inc., New York, N. Y. Fabric-measuring machine. 1,679,899; Aug. 7.
Gould, Allen A. (See Wellman, S. K., and Gould.)
Gould Storage Battery Company. (See Gould, William S., assignor.)
Gould, William S., assignor, by mesne assignments, to Gould Storage Battery Company, Inc., New York, N. Y. System of distribution. 1,680,149; Aug. 7.
Graaff, Wilhelm, Berlin, Germany, assignor to Pyrene-Minimax Corporation. Foam fire-extinguishing apparatus. 1,679,859; Aug. 7.
Grabe, Georg, Nikolassee, near Berlin, Germany, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,679,522; Aug. 7.
Grace, Ian W. (See Dale, F. F., and Grace.)
Grady, Franklin, New York, N. Y. Heater. 1,679,937; Aug. 7.
Grand Rapids Brass Company. (See Osbeck, Elmer C., assignor.)
Granger, Wallace H., San Francisco, Calif. Printing-press unit. 1,680,018; Aug. 7.
Graves, William J., Fort Worth, Tex. Safety pocketbook. 1,679,606; Aug. 7.
Gray, William C., assignor of one-half to W. Goldstein, Philadelphia, Pa. Valve for internal-combustion engines. 1,680,099; Aug. 7.
Greer, Jesse W., Cambridge, Mass. Conveyer. 1,679,717; Aug. 7.
Griffith, Lavigne & Hamel Company. (See Lavigne, Joseph P., assignor.)
Griffith, Thomas E., and L. L. Dodds, assignors to The W. S. Tyler Company, Cleveland, Ohio. Switch mechanism. 1,679,355; Aug. 7.
Griffiths, Francis H. (See Evans, J. E., and Griffiths.)
Grimshaw, William, Glen Ellyn, Ill. Strut for automatic sprinklers. 1,679,568; Aug. 7.
Gross, Henry J., Chicago, Ill. Andiron. Des. 75,973; Aug. 7.
Grunewald, Heinrich, Dissen, Germany. Aeroplane. 1,679,356; Aug. 7.
Guadagni, Giuseppe, Turin, Italy. Apparatus for the formation of nitric acid or hydrochloric acid. 1,680,019; Aug. 7.
Guett, Monroe, assignor to Hart & Hegeman Manufacturing Company, Hartford, Conn. Switch. 1,680,100; Aug. 7.
Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Lever-operated electric switch. 1,680,101; Aug. 7.
Gustafson, Walter S., and E. D. Smith, Manor, Texas. Egg candler. 1,679,769; Aug. 7.
Gustafsson, Emil G. T. (See Flodin, H. G., and Gustafsson.)
Guyot, Marius. (See Norton, A. B., and Guyot.)
Guyot, Marius, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Mold for casting metals. 1,679,860; Aug. 7.
Guyot, Marius, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Mold for casting metals. 1,679,861; Aug. 7.
Haase, Jorgen I., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Skiving machine. 1,679,569; Aug. 7.
Habart, Joseph. (See Baughman, O. F., and Habart.)
Hagedorn, Louis, Luverne, Minn. Windshield heater. 1,680,102; Aug. 7.
Hall, Akos J., Cleveland, Ohio. Stair structure. 1,679,570; Aug. 7.
Hall, Douglas, Chicago, Ill. Toy bank. 1,679,658; Aug. 7.
Hall Draft Gear Corporation. (See Sherman, C. W., and Hall, assignors.)
Hall, Joseph M. (See Sherman, C. W., and Hall.)
Hall, Lindsay S., New Bedford, Mass., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Compressor roll. 1,679,571; Aug. 7.
Hall, Ray C., Needham, assignor to Frank W. Gorse Co., Needham Heights, Mass. Short-stretch covered elastic thread. 1,679,822; Aug. 7.
Hall, Theodore, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Projector lamp. 1,679,718; Aug. 7.
Halvorsen, Halbert B., Michigan City, Ind., assignor to Sullivan Machinery Company. Forging machine. 1,680,251; Aug. 7.
Halvorsen, Halbert B., Michigan City, Ind., assignor to Sullivan Machinery Company. Forging machine. 1,680,253; Aug. 7.
Hammond, John H., jr. (See Buswell, L., and Hammond.)
Hammond, John H., jr., Gloucester, Mass. Pipe organ. 1,680,039; Aug. 7.
Hammond, John H., jr., Gloucester, Mass. Boat-race indicator. 1,680,040; Aug. 7.
Hammond, John H., jr., Gloucester, Mass. Automatic control of organ music. 1,680,041; Aug. 7.
Hanse, Matthew A., Barnesville, Ohio. Plate or similar article. Des. 75,974; Aug. 7.
Hanson, Nathan E., assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 1,679,357; Aug. 7.
Harbert, Victor H., assignor to E. Payson Smith, Springfield, Ill. Safety device for railroad-car brake beams. 1,679,420; Aug. 7.
Harding, Albert M., assignor to Flash Radio Corporation, Boston, Mass. Radio receiving apparatus. 1,680,042; Aug. 7.
Hardsocg Wonder Drill Company. (See Smith, George W., assignor.)
Hardy, Charles R., Mount Vernon, assignor to The Superheater Company, New York, N. Y. Liquid-measuring device. 1,680,103; Aug. 7.
Hargrove, William W., et al., executors. (See Bentley, G. H., and Appleby.)
Harris, Kenneth L., New Brighton, Pa. Automobile bumper. 1,679,823; Aug. 7.
Harrison, William, Manchester, England. Production of carbohydrate compounds. 1,680,020; Aug. 7.
Harrison, William, Manchester, England. Manufacture of woollike cellulosic material. 1,680,021; Aug. 7.
Hart & Hegeman Manufacturing Company. (See Guett, Monroe, assignor.)
Hartford-Empire Company. (See Barker, William T., jr., assignor.)
Hartford-Empire Company. (See Sears, Sydney L., assignor.)
Haskell, Broderick, jr., assignor to Franklin Railway Supply Company, New York, N. Y. Entrainment-controlling mechanism for auxiliary motors. 1,679,719; Aug. 7.
Haskell, Charles R., Youngstown, N. Y., assignor to Haskell Corporation, Niagara Falls, N. Y. Making tubular farinaceous rolls. 1,679,660; Aug. 7.
Haskell Corporation. (See Haskell, Charles R., assignor.)
Hasskarl Novelty Co. (See Hasskarl, W. S., and Marder, assignors.)

Hasskarl, William S., and M. Marder, assignors to Hasskarl Novelty Co., Philadelphia, Pa. Lawn pool game. 1,679,659; Aug. 7.
Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Locomotive steam purifier. Re17,058; Aug. 7.
Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Steam purifier for locomotive boilers. 1,679,358; Aug. 7.
Hayden, Arthur C., Brockton, Mass. Punch for cutting notches in film reels. 1,679,572; Aug. 7.
Head, Cecil A., Royal Oak, Mich. Steam-heating attachment for radiators. 1,680,104; Aug. 7.
Heese, Henry, Jersey City, N. J. Detachable connection for the cables of lightning-arrester systems. 1,679,969; Aug. 7.
Heijkenskjöld, Gustaf O. W., assignor to Aktiebolaget Bästa, Stockholm, Sweden. Preparation of yeast. 1,680,043; Aug. 7.
Hein, George N., assignor to Neutype Instrument Company, San Francisco, Calif. Adjustable packing for hypodermic syringes. Re17,059; Aug. 7.
Heisel, Ralph E., Chillicothe, assignor, by mesne assignments, to Paper Machinery Corporation, Dayton, Ohio. Paper-making machinery. 1,679,523; Aug. 7.
Helfenstein, Frederick, jr., and J., assignors of one-third to J. Nathan, Bismarck, N. Dak. Bottle-delivery device. 1,679,824; Aug. 7.
Helfenstein, John. (See Helfenstein, Frederick, jr., and J.)
Helmond, William F., Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,679,901; Aug. 7.
Helwig, William F., Milton, Wis. Tire-chain lock. 1,679,902; Aug. 7.
Hemingway, Wilson, jr., Philadelphia, Pa., assignor to The Electrolock Manufacturing Company, Vicksburg, Miss. Ignition system. 1,679,771; Aug. 7.
Henderson, N. E., & Son, Incorporated. (See Winkel, George R., assignor.)
Henritzy, George S., Hazleton, Pa. Awning. 1,679,862; Aug. 7.
Herb, Otto J., assignor to The Bassick Manufacturing Company, Chicago, Ill. Coupling member. 1,679,863; Aug. 7.
Herbert, Alfred, Limited. (See Vernon, P. V., and Jackson, assignors.)
Hershey, Carl G., El Paso, Tex., assignor to American Smelting and Refining Company, New York, N. Y. Measuring instrument. 1,679,524; Aug. 7.
Herzog, Wilhelm, Charlottenburg, Germany, assignor to General Electric Company, Electromagnetic instrument. 1,680,216; Aug. 7.
Heyn, Gertrude H. (See Jahn, Berthold, assignor.)
Higby, Earl D., Santa Rosa, Calif. Fruit drier. 1,679,720; Aug. 7.
Higgins, Frank, and A. E. Nordstrom, Princeton, Ill. Oil-burning system. 1,679,900; Aug. 7.
Hightstown Rug Company. (See Thompson, Arthur T., assignor.)
Hill, Dwight B., Winchester, assignor of one-half to H. F. French, Randolph, Mass. Electric coil. 1,679,471; Aug. 7.
Hillbom, Henrik, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon or similar article. Des. 75,975; Aug. 7.
Himler, Joseph G., Latrobe, Pa. Hedge trimmer. 1,679,421; Aug. 7.
Hind, William M., Buffalo, N. Y. Knockdown reel. 1,679,573; Aug. 7.
Hirst, Charles E., Ames, Iowa. Valvespring lifter and remover. 1,679,970; Aug. 7.
Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Car-coupling apparatus. 1,679,472; Aug. 7.
Hitchcock, Reuben, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Paper-handling machine. 1,680,044; Aug. 7.
Hodgson, Harriette E., New York, N. Y. Plastic artificial hand. 1,680,022; Aug. 7.
Hoerr, Louis A., assignor to Western Railway Equipment Company, St. Louis, Mo. Draft gear. 1,679,607; Aug. 7.
Holden, Charles D. (See Strickler, Thomas J., assignor.)
Hollinger, Emil F., assignor to Chase Appliance Corporation, New York, N. Y. Anticreeping device for railway rails. 1,679,903; Aug. 7.
Hollenbeck, Oscar D., Racine, Wis. Apparatus for use in rubber factories. 1,680,171; Aug. 7.
Holmgreen, Julius H. and R. J., assignors to Alamo Iron Works, San Antonio, Tex. Rotary well-drilling machine. 1,679,825; Aug. 7.
Holmgreen, Richard J. (See Holmgreen, Julius H. and R. J.)
Holzverkohlungs-Industrie Aktien-Gesellschaft. (See Krause, E., and Róka, assignors.)
Home, Clayton R., Enid, Okla. Desk pad. 1,679,423; Aug. 7.
Homerberg, Victor O., Belmont, Mass., and D. N. Shaw, Philadelphia, Pa. Treating copper alloys and improved product. 1,680,045; Aug. 7.
Homerberg, Victor O., Cambridge, Mass., and D. N. Shaw, Akron, Ohio. Treating copper alloys and improved product. 1,680,046; Aug. 7.
Hood Rubber Company. (See Perrault, Joseph E., assignor.)
Hood Rubber Company. (See Schroeder, Louis J., assignor.)
Hooker, Arthur L., Wellington, Kans. Spare-tire carrier. 1,679,422; Aug. 7.
Hooker Electrochemical Company. (See Lyon, Charles E., assignor.)
Hope, Vernon, Macclesfield, England. Electric fuse or cut-out. 1,679,971; Aug. 7.
Hopp, Ernest O., Portland, Oreg. Electric heater. 1,679,424; Aug. 7.
Houston, William F., Washington, D. C. Eccenter. 1,679,425; Aug. 7
Howard, Charles H., Saugus, assignor, by mesne assignments, to American Re-Enforced Paper Company, Attleboro, Mass. Reenforced-paper fabrics. 1,679,721; Aug. 7.
Howe, Folding Furniture, Inc. (See Howe, Harold, assignor.)
Howe, Harold, Orange, N. J., assignor to Howe Folding Furniture, Inc., New York, N. Y. Folding table. 1,679,426; Aug. 7.
Hoye, Stephen M., Brooklyn, N. Y. Treating holly and like plants and products derived therefrom. 1,679,525; Aug. 7.
Hubbard, Henry E. (See Duncan, J. S., and Hubbard.)
Hubbell, Harvey, deceased, Bridgeport, Conn.; L. E. Hubbell, executrix. Switch plug. 1,679,722; Aug. 7.
Hubbell, Harvey, deceased, Bridgeport, Conn.; L. E. Hubbell, executrix. Cord clamp. 1,679,723; Aug. 7.
Hubbell, Louie E., executrix. (See Hubbell, Harvey.)
Huber, John Y., jr., Ardmore, Pa. Stabilization of oils, fats, and waxes. 1,680,047; Aug. 7.
Hudnut, Richard. (See Pfeiffer, Charles L., assignor.)
Huebner, Irwin, Allentown, Pa. Automobile radiator cap. Des. 75,976; Aug. 7.
Hugershoff, Reinhard, Dresden, Germany. Stereoscopic measuring instrument. 1,679,661; Aug. 7.
Humason, Granville A., and W. L. Childs; said Childs assignor to Reed Roller Bit Company, Houston, and said Humason assignor to J. A. Logan, Harris County, Tex. Attachment for pumps. 1,679,608; Aug. 7.
Humphrey, Clen S., Brooklyn, N. Y. Powder box. 1,680,150; Aug. 7.
Hunt, John O., Brooklyn, N. Y., and G. H. North, Cranston, R. I., assignors to Independent Paper Mills, Inc., Brooklyn, N. Y. Dispenser for paper napkins and like articles. 1,679,904; Aug. 7.
Hunt, Ormond E., assignor to General Motors Corporation, Detroit, Mich. Tire carrier. 1,679,972; Aug. 7.
Hupp Motor Car Corporation. (See Punke, John J., assignor.)
Hyatt, Samuel W., assignor to Indiana Lamp Corporation, Connersville, Ind. Lamp-focusing mechanism. 1,679,574; Aug. 7.
Hydraulic Brake Company. (See Longbead, Malcolm, assignor.)
Independent Paper Mills, Inc. (See Hunt, J. O., and North, assignors.)
Indiana Lamp Corporation. (See Hyatt, Samuel W., assignor.)
Ingersoll-Rand Company. (See McIntyre, James K., assignor.)
Inland Manufacturing Company, The. (See Geyer, Harvey D., assignor.)
International Cellucotton Products Co. (See Weiss, George, assignor.)
International Derrick & Equipment Company, The. (See Battelle, G., Runkle, and Tobin, assignors.)
International Nickel Company, The. (See Lellep, Otto, assignor.)
International Nickel Company, The. (See Merica, P. D., and Wickenden, assignors.)
International Oxygen Company. (See Quelch, George C., assignor.)
International Silver Company. (See Beck, Ernest T., assignor.)
Isherwood, Joseph W. and W., Raggles Wood, Chislehurst, England. Hatch cover. 1,679,526; Aug. 7.
Isherwood, William. (See Isherwood, Joseph W. and W.)
Isler, Herman R. (See Einstein, S., Nenninger, and Isler.)
Iversen, Lorenz, assignor to Mesta Machine Company, Pittsburgh, Pa. Apparatus and method of shearing. 1,680,048; Aug. 7.
Jackson, George P., Flushing, and H. D. Savage, Scarsdale, assignors to Combustion Engineering Corporation, New York, N. Y. Furnace. 1,679,724; Aug. 7.
Jackson, Ralph. (See Vernon, P. V., and Jackson.)
Jacobs, James M. H., assignor to General Motors Research Corporation, Dayton, Ohio. Engine cylinder. 1,679,973; Aug. 7.
Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Furnace wall. 1,679,725; Aug. 7.
Jaeger, Max, assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Vessel-handling device. 1,679,527; Aug. 7.
Jahn, Berthold, New Britain, assignor to G. H. Heyn, Westport, Conn. Stapling machine. 1,679,662; Aug. 7.
Jeffrey Manufacturing Company, The. (See Liggett, William K., assignor.)
Jenkins, Alexander F., Baltimore, Md. Fluid-pressure regulator. 1,679,826; Aug. 7.

Jennings, Victor H., and H. H. Watson, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Dobby multiplier. 1,679,663; Aug. 7.
Jensen, Alfred, New York, N. Y., assignor to Elliott-Fisher Company. Carbon guard for manifolding machines. 1,679,827; Aug. 7.
Jessen, Bernard O., Los Angeles, Calif. Orchard heater. 1,679,359; Aug. 7.
Jewell, Danford, assignor of one-half to H. H. Phipps, Spokane, Wash. Transmission mechanism. 1,679,974; Aug. 7.
Jewell, Howard W., Los Angeles, Calif., assignor to American Telephone and Telegraph Company. Underground conduit. 1,679,427; Aug. 7.
Johanson, Emil, Chicago, Ill. Rail brace with tie plate. 1,679,528; Aug. 7.
Johnson, Albert M., assignor to Barnes Drill Co., Rockford, Ill. Automatic machine tool. 1,679,529; Aug. 7.
Johnson, Albert M., assignor to Barnes Drill Co., Rockford, Ill. Automatic drilling or tapping machine. 1,679,530; Aug. 7.
Johnson, Albert M., assignor to Barnes Drill Company, Rockford, Ill. Gang machine tool. 1,679,531; Aug. 7.
Johnson, Carl W., Shaker Heights, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Making bearings. 1,679,772; Aug. 7.
Johnson, Lane, Ingram, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Repeater for rolling mills. 1,680,105; Aug. 7.
Johnson, Otis, San Francisco, Calif., assignor to I. F. Laucks, Inc., Seattle, Wash. Treating soya beans. 1,680,264; Aug. 7.
Johnson, Roy W. (See Gauger, F. A., and Johnson.)
Johnson, Roy W. (See Gauger, F. A., Johnson, and Neuser.)
Johnson, Samuel J., assignor to The Seinsheimer Paper Company, Cincinnati, Ohio. Garment bag. 1,679,828; Aug. 7.
Johnston, Cecil G., assignor of one-half to E. B. Johnston, Meadville, Pa. Ice-cream-container filler. 1,679,609; Aug. 7.
Johnston, Edna B. (See Johnston, Cecil G., assignor.)
Jones, Howard L. (See Eickmeyer, E. E., and Jones.)
Jordan, Hans, Berlin-Steglitz, assignor to the firm: Chemische Fabrik auf Actien vorm. E. Schering, Berlin, Germany. Alkyl cumaranes and making same. 1,679,664; Aug. 7.
Jorgensen, Hans G., Erie, Pa., assignor, by mesne assignments, to General Electric Company. Joint strip. Re17,061; Aug. 7.
Jorgensen, Hans G., Erie, Pa., assignor, by mesne assignments, to General Electric Company. Joint strip. Re17,062; Aug. 7.
Judd, H. L., Company. (See Dlouhy, August, assignor.)
Juliano, John, Niagara Falls, N. Y. Sled. 1,679,975; Aug. 7.
Jung, Jacob, Hamburg, Germany. Die-throwing device. 1,679,360; Aug. 7.
Junkers, Hugo, Dessau, Germany. Internal-combustion engine. 1,679,976; Aug. 7.
Junkunc, John, Chicago, Ill. Spare-tire lock. 1,679,665; Aug. 7.
Kabisius, Walter, assignor to the firm of Carl Zeiss, Jena, Germany. Depth gauge. 1,679,473; Aug. 7.
Kant-Back Corporation. (See Gonard, John L., assignor.)
Kaproth, Paul R. (See Plante, Charles A., assignor.)
Kass, Samuel M., Philadelphia, Pa. Ice pick and guard. 1,679,666; Aug. 7.
Kassner, Ernst, Berlin, Germany. Resetting mechanism. 1,679,905; Aug. 7.
Kauffman, Jacob, New York, N. Y. Pocket sputum cup. 1,680,151; Aug. 7.
Keas, Charles E., Los Angeles, Calif. Double-acting engine. 1,679,668. Aug. 7.
Keator, Randall M., assignor to De Forest Radio Telephone & Telegraph Company, New York, N. Y. Radio alarm signal system. 1,680,2[illegible]; Aug. 7.
Keenan, William H., Chicago, Ill. Uniform-loaf-making machine. 1,679,667; Aug. 7.
Kennedy, Albert H., Rockport, Ind. Sanitary water-closet. 1,679,669; Aug. 7.
Kenton, Gussie V., Overland, Mo. Nut lock. 1,679,474; Aug. 7.
Keppens, Albert, Berwyn, Ill. Folding tree holder. 1,680,050; Aug. 7.
Keune, William H., Carlinville, Ill. Stalk breaker. 1,680,218; Aug. 7.
Keystone Mfg. Co. (See Marks, Isidore, assignor.)
Kimball, James L., Beverly, assignor to Ruggles-Klingemann Manufacturing Company, Salem, Mass. Fluid-pressure relief valve. 1,679,938; Aug. 7.
Kimball, Norris E., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Cord belt. 1,679,575; Aug. 7.
King, John L., New York, N. Y., assignor to Recalaxion Razor Company, Incorporated. Safety razor. 1,679,670; Aug. 7.
Kinnear, Delamar C., Waterbury, assignor to The American Brass Company, Waterbury, Conn. Metal-drawing apparatus. 1,679,906; Aug. 7.
Kirschbraun, Lester, Leonia, N. J. Making emulsions and product thereof. 1,679,475; Aug. 7.
Klamer, John, Stevens Point, Wis. Illuminated city name and license double-number plate and direction-signal attachment therefor. 1,679,671; Aug. 7.
Klein, Samuel, Chicago, Ill. Building construction. 1,679,672; Aug. 7.
Kliegl Bros. Universal Electric Stage Lighting Co. (See Kliegl, John H., assignor.)
Kliegl, John H., assignor to Kliegl Bros. Universal Electric Stage Lighting Co., Inc., New York, N. Y. Spotlight. 1,679,361; Aug. 7.
Kliesrath, Victor W. (See Bragg, C. S., and Kliesrath.)
Knight, Herschel S., Indianapolis, Ind. Combined fuel vaporizer and auxiliary air-inlet device. 1,680,152; Aug. 7.
Knowles, Arthur F., Upper Montclair, N. J. Ventilating device. 1,679,773. Aug. 7.
Knowlton, Cutler D., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Controlling mechanism. 1,679,362; Aug. 7.
Knox, Harry A., Davenport, Iowa. Double-radius-controlled differential. 1,679,610; Aug. 7.
Knudsen, William S., assignor to General Motors Corporation, Detroit, Mich. Apparatus for cutting valve stems. 1,679,977; Aug. 7.
Knutson, George W., Arlington, S. Dak. Automobile windshield cleaner. 1,679,576; Aug. 7.
Kochring Company. (See Lichtenberg, Erich H., assignor.)
Koerner, Ewald, Dresden, Germany, assignor to United Cigarette Machine Co. Inc., Lynchburg, Va. Throw-out mechanism for cigarette-packing machines. 1,680,023; Aug. 7.
Koerner, Ewald, Dresden, Germany, assignor to United Cigarette Machine Co., Inc., Lynchburg, Va. Machine for packing cigarettes and like articles. 1,680,024; Aug. 7.
Kohl, George, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Mold for casting metals. 1,679,864; Aug. 7.
Köhler, Max, Limbach, Germany. Work guide for overseaming machines. 1,679,363; Aug. 7.
Köhler, Max, Limbach, Germany. Circular looper. 1,679,428; Aug. 7.
Konigsberg, Joseph H., assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Tube finishing and capping machine. 1,679,865; Aug. 7.
Konwiser, Abram L., Newark, and D. Loeser, East Orange, N. J.; said Konwiser assignor to said Loeser. Pneumatic tourniquet. 1,679,978; Aug. 7.
Kopke, Ernst, Honolulu, Hawaii. Centrifugal separator. 1,679,829; Aug. 7.
Koppel Industrial Car and Equipment Company. (See Schmohl, A. C., and Burner, assignors.)
Kops Bros., Inc. (See Kops, Waldemar, assignor.)
Kops, Waldemar, assignor to Kops Bros., Inc., New York, N. Y. Apparel garment. 1,680,051; Aug. 7.
Kraft, Gustave F. (See Williams, F. L., and Kraft.)
Kramer, Richard L. (See Tanberg, A. P., and Kramer.)
Kranz, Frederick W., Geneva, Ill. Apparatus for aiding hearing. 1,679,532; Aug. 7.
Krause, Erich, and K. Róka, assignors to the firm Holzverkohlungs-Industrie Aktien-Gesellschaft, Constance, Baden, Germany. Making formaldehyde from methylene chloride. 1,679,673; Aug. 7.
Krause, Richard F., assignor to The Enterprise Aluminum Company, Massilon, Ohio. Handle for waterless cookers. 1,679,429; Aug. 7.
Kuhn, Wilfred H., assignor to Wright-Austin Company, Detroit, Mich. Steam gauge. 1,679,476; Aug. 7.
Kupelweiser, Hans, St. Polten, Austria. Wall construction. 1,679,611; Aug. 7.
Kupsche, Alexander B., Chicago, Ill. Radio receiving apparatus. 1,679,533; Aug. 7.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,679,726; Aug. 7.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,679,727; Aug. 7.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,680,153; Aug. 7.
La Bour, Harry E., Homewood, Ill. Valve. 1,679,907; Aug. 7.
Lamble, Alfred. (See Conroy, J. T., Lamble, and Latham.)
Landon, Archer A., Buffalo, assignor to Landon Radiator Company, Incorporated, North Tonawanda, N. Y. Radiator. 1,680,219; Aug. 7.
Landon Radiator Company. (See Landon, Archer A., assignor.)
Lane, Alfred M., assignor to Monarch Metal Products Company, St. Louis, Mo. Metal weatherstrip. 1,679,612; Aug. 7.
Lang, Adolf, The Hague, Netherlands. Liquid-fuel burner. 1,679,830; Aug. 7.
Lang, Franz, Stuttgart, Germany, assignor to Aero Aktiengesellschaft, Kussnacht-on-the-Rigi, Switzerland. Combustion-power engine with self-ignition. 1,679,831; Aug. 7.
Lang, Franz, Stuttgart, Germany, assignor to Acro Aktiengesellschaft, Kussnacht-on-the-Rigi, Switzerland. Combustion-power engine. 1,679,832; Aug. 7.
Langel, Adrien L., assignor to Chicago Metallic Manufacturing Co., Chicago, Ill. Mounting for baking pans. 1,680,220; Aug. 7.
Langford, George W., A. C. Barrows, and C. W. Good, assignors to Economy Baler Company, Ann Arbor, Mich. High-density attachment for compresses for cotton bales. 1,679,979; Aug. 7.
Lanka, Artur, Gera, Germany. Accordion. 1,680,052; Aug. 7.
Larner, Chester W., Philadelphia, Pa. Valve. 1,679,774; Aug. 7.

Latham, John J. (See Conroy, J. T., Lamble, and Latham.)
Laucks, I. F., Inc. (See Johnson, Otis, assignor.)
Laugeson, Earl V., Portland, Oreg. Circuit closer for direction signals. 1,679,833; Aug. 7.
Lavigne, Joseph P., assignor to Griffith, Lavigne & Hamel Company, Detroit, Mich. Wheel. 1,680,265; Aug. 7.
Lawlor, S. C., Company. (See Lawlor, Simeon C., assignor.)
Lawlor, Simeon C., assignor to S. C. Lawlor Company, Chicago, Ill. Mop wringer. 1,679,980; Aug. 7.
Lawrence, John D., San Diego, Calif. Portable building-material conveyer. 1,679,981; Aug. 7.
Lawson, Joel S., St. James, assignor to Memco Engineering & Manufacturing Company, Inc., Long Island City, N. Y. Clamp for electrical conductors. 1,680,053; Aug. 7.
Lebeis, Martin, Berlin-Friedenau, Germany, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Punching machine for statistical cards. 1,680,054; Aug. 7.
Lee, Frank M., Chicago, Ill., assignor to Sullivan Machinery Company. Drill-sharpening mechanism. 1,680,248; Aug. 7.
Lee, Frank M., Chicago, Ill., assignor to Sullivan Machinery Company. Drill-sharpening mechanism. 1,680,249; Aug. 7.
Lee, Josiah E., Erlanger, assignor to The Architectural Metal Products, Incorporated, Covington, Ky. Fireproof metal door. 1,680,221; Aug. 7.
Leemann, Hans, Bottmingermuhle-Binningen, near Basel, and G. Tagliani, Basel, Switzerland, assignors, by mesne assignments, to Munitex Corporation, Lodi, N. J. Reserve dyeing on vegetable fibers. 1,679,477; Aug. 7.
Leemann, Hans, Bottmingermuhle-Binningen, near Basel, and G. Tagliani, Basel, Switzerland, assignors, by mesne assignments, to Munitex Corporation, Lodi, N. J. Reserve dyeing on vegetable fibers. 1,679,478; Aug. 7.
Leemann, Hans, Bottmingermuhle-Binningen, near Basel, and G. Tagliani, Basel, Switzerland, assignors, by mesne assignments, to Munitex Corporation, Lodi, N. J. Reserve dyeing on vegetable fibers. 1,679,479; Aug. 7.
Leemann, Hans, Bottmingermuhle-Binningen, near Basel, and G. Tagliani, Basel, Switzerland, assignors, by mesne assignments, to Munitex Corporation, Lodi, N. J. Reserve dyeing on vegetable fibers. 1,679,480; Aug. 7.
Leemann, Hans, Bottmingermuhle-Binningen, near Basel, and G. Tagliani, Basel, Switzerland, assignors, by mesne assignments, to Munitex Corporation, Lodi, N. J. Reserve dyeing on vegetable fibers. 1,679,481; Aug. 7.
Legat, Robert C., assignor to G. E. Prentice Manufacturing Company, New Britain, Conn. Slider for fasteners. 1,679,866; Aug. 7.
Legeriots, Helmut, Berlin, Germany. Monooxy-ω-aminoacetophenone derivatives. 1,680,055; Aug. 7.
Lehman, Paul W., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Bale splitter. 1,680,222; Aug. 7.
Lehmann, Ernst A. (See Doerr, W. E., and Lehmann.)
Lellep, Otto, Egypt, Pa., assignor to The International Nickel Company, New York, N. Y. Fuel-heated furnace and converter using preheated air. 1,680,155; Aug. 7.
Lentz, Herman M., Renville, Minn. Stringed musical instrument. 1,679,834; Aug. 7.
Lentz, Laurence E., Harrisburg, Pa., assignor to Elliott-Fisher Company. Double-platen manifolding machine. 1,679,835; Aug. 7.
Lenz, Arnold, Saginaw, assignor to General Motors Corporation, Detroit, Mich. Booking core machine. 1,679,982; Aug. 7.
Leonard, George I., Chicago, Ill. Condenser for ice machines. 1,679,430; Aug. 7.
Lerden, Bernard, Vienna, Austria. Spectacles with lighting device. 1,679,482; Aug. 7.
Lessler, Lew W., Johnson City, N. Y., assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Platform support for cameras. 1,679,613; Aug. 7.
Lewis, Anson F., deceased, by B. Lewis, administratrix, assignor to Mortarless Tile Machine Company, Santa Barbara, Calif. Block-molding machine. 1,679,483; Aug. 7.
Lewis, Elizabeth, administratrix. (See Lewis, Anson F.)
Libbey-Owens Sheet Glass Company, The. (See Blackshere, Lewis D., assignor.)
Libbey-Owens Sheet Glass Company, The. (See Blair, James C., assignor.)
Libbey-Owens Sheet Glass Company, The. (See Mambourg, Leopold, assignor.)
Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Multiple-tank water-supply mechanism. 1,679,614; Aug. 7.
Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Stacking machine. 1,680,223; Aug. 7.
Lilienfeld, Leon, Vienna, Austria. Manufacture of new cellulose derivatives. 1,680,224; Aug. 7.
Lindburg, Joseph, Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,679,867; Aug. 7.
Linder, John L., Palo Alto, Calif. Swimming glove. 1,679,836; Aug. 7.
Lipschutz, John E. (See Peyton, J. W., and Lipschuts.)
Lober, George H., Toledo, Ohio, assignor to The Beck-Frost Corporation, Detroit, Mich. Windshield-wiper-operating mechanism. 1,679,674; Aug. 7.
Lochok, Andrew, Los Angeles, Calif. Cover. 1,679,775; Aug. 7.
Loeser, David. (See Konwiser, A. L., and Loeser.)
Logan, J. A. (See Humason, G. A., and Childs, assignors.)
Logwood, Charles V. (See de Forest, L., and Logwood.)
Lollis, Benjamin F., Berwyn, assignor of one-half to O. S. Flath, Chicago, Ill. Focusing device. 1,679,577; Aug. 7.
Long, Albert E., assignor to Stromberg Electric Company, Chicago, Ill. Corrective device for secondary clock mechanism. 1,679,534; Aug. 7.
Longino, Hugh A., Ringling, Okla. Corn popper. 1,679,431; Aug. 7.
Loranger, Hubert R., Highland Park, Mich. Detachable cover for ice-tray compartments in refrigerating apparatus. 1,679,615; Aug. 7.
Lorber, Charles, Louisville, Ky. Inclosed transparent window. 1,679,578; Aug. 7.
Lösel, Franz, Brunn, Czechoslovakia. Turbine locomotive. 1,680,025; Aug. 7.
Loughead, Malcolm, Detroit, Mich., assignor to Hydraulic Brake Company, Los Angeles, Calif. Brake shoe and mounting therefor. 1,679,484; Aug. 7.
Luckiesh, Matthew, Cleveland, Ohio. Lighting fixture. 1,680,225; Aug. 7.
Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Doerr, W. E., and Lehmann, assignors.)
Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Siller, Karl, assignor.)
Lujan, Manuel L., Los Angeles, Calif. Antenna support. 1,679,675; Aug. 7.
Lundgren, Edwin, Frederick, Md., assignor to Combustion Engineering Corporation, New York, N. Y. Furnace. 1,679,364; Aug. 7.
Lundgren, William E., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Box motion for looms. 1,679,616; Aug. 7.
Lundy, Robert R., South Bend, Ind. Golf-ball tee. 1,679,579; Aug. 7.
Lykken, Henry G., Minneapolis, Minn. Constructing concrete surfaces. 1,679,535; Aug. 7.
Lynn, Frederick E., Springdale, Pa. Grease extractor. 1,679,728; Aug. 7.
Lynn, Frederick E., Springdale, Pa. Refrigerating system. 1,679,729; Aug. 7.
Lyon, Charles E., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y. Heat-producing composition. 1,679,432; Aug. 7.
Lyons, J., and Company. (See Coyte, William A., assignor.)
Macdonald, Angus S., Great Neck, N. Y., and C. C. Waite, Roselle Park, assignors to Snead & Company, Jersey City, N. J. Electrical heating apparatus and method. 1,679,730; Aug. 7.
Machlett, Raymond R., New York, N. Y., assignor to Rainbow Light, Inc. Argon-mercury discharge tube. 1,680,271; Aug. 7.
Machlett Raymond R., New York, assignor to Rainbow Light, Inc., Long Island City, N. Y. Luminous tube and manufacturing the same. 1,680,272; Aug. 7.
Mack, Martin, assignor to Cannstatter Misch- und Knetmaschinen-Fabrik, Cannstatter Dampf-Backofen-Fabrik, Werner & Pfleiderer, Cannstatt-Stuttgart, Germany. Safety appliance for hydraulic accumulators. 1,679,433; Aug. 7.
Madson, Nels, Coeur d'Alene, Idaho. Scraper. 1,680,156; Aug. 7.
Madvig, Gunnar, Oakland, Calif. End for drapery poles or rods. Des. 75,977; Aug. 7.
Magee, William H., assignor to Fostoria Glass Co., Moundsville, W. Va. Display stand. 1,680,226; Aug. 7.
Majestic Lamp Works. (See Silberhartz, Philip, assignor.)
Mambourg, Leopold, Lancaster, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-protecting means and method. 1,680,227; Aug. 7.
Mancini, Donato, Saxonville, Mass. Valve grinder. 1,679,983; Aug. 7.
Manning Manufacturing Company. (See Manning, Roy A., assignor.)
Manning, Roy A., assignor to Manning Manufacturing Company, Rutland, Vt. Bottle-washing machine. 1,680,106; Aug. 7.
Marder, Morris. (See Hasskarl, W. S., and Marder.)
Marine Equipment & Supply Company. (See Troth, Clement A., assignor.)
Marion Steam Shovel Company, The. (See Russell, Louis R., assignor.)
Marks, Isidore, Dorchester, assignor to Keystone Mfg. Co., Boston, Mass. Pump. 1,680,157; Aug. 7.
Marquard, Frank F., Cairton, Pa. Preparing flue dust for smelting in blast furnaces. 1,680,107; Aug. 7.
Marsh, Odessa G. (See Frasier, Harry E., assignor.)
Marshall, Clyde E., Peach Creek, W. Va. Air-brake bleeder valve. 1,679,837; Aug. 7.
Marty, Amos R., Ada, Ohio. Lifting jack. 1,680,228; Aug. 7.
Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft. (See Geiger, Josef, assignor.)
Maschinenfabrik-Augsburg-Nuernberg Aktiengesellschaft. (See Pielstick, Gustav, assignor.)
Maschinenfabrik Augsburg-Nürnberg A.-G. (See Plochmann, Maximilian, assignor.)
Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft. (See Riehm, Wilhem, assignor.)

Masel, Simon, New York, N. Y. Engine transmission mechanism. 1,679,580; Aug. 7.
Mathews, Fred. (See Strid, Sven J., assignor.)
Mathins, Margaret E., Montclair, N. J. Easel. 1,680,056; Aug. 7.
Matson, Charles I., Chicago, Ill. Cuff link. 1,680,158; Aug. 7.
Mautner, Louis, Brooklyn, N. Y. Bowl or similar article of silverware. Des. 75,978; Aug. 7.
Maw, Francis R., assignor to Rice & Adams Corporation, Buffalo, N. Y. Bottle-advancing mechanism. 1,679,939; Aug. 7.
Maxwell, James D., Brooklyn, N. Y. Salinometer, test, and gauge cock. 1,679,485; Aug. 7.
May, Clarence L., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Picking motion for looms. 1,679,617; Aug. 7.
Mayer, Milton M. (See Buckingham, Benjamin J., assignor.)
McArthur Brothers Mercantile Co. (See McArthur, Warren, jr., assignor.)
McArthur, Warren, jr., assignor to McArthur Brothers Mercantile Co., Phoenix, Ariz. Motometer mounting and lock. 1,679,908; Aug. 7.
McCarthy, John E., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Damper for blanket and curtain drying machines. 1,679,940; Aug. 7.
McClary Manufacturing Co., The. (See Brand, Edward D., assignor.)
McConnon, John W., Palmerston North, Wellington, New Zealand. Container for liquids. 1,679,984; Aug. 7.
McCray, Day C., Oshkosh, Wis., assignor to N. Paine, Miami Beach, Fla. Ironing cabinet. 1,679,581; Aug. 7.
McCurdy, Ralph G., Englewood, N. J., assignor to American Telephone and Telegraph Company. Electric wave filter for variable-load circuits. 1,679,434; Aug. 7.
McDermott, William R. (See Olson, A., and McDermott.)
McElwrath, Melvin G. (See Popham, Otis A., assignor.)
McFall, Willard D., East Orange, N. J. Filing or indexing appliance. 1,679,365; Aug. 7.
McFetridge, Joseph, Vandergrift, assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Manufacture of metallic-coated sheets and plates. 1,679,435; Aug. 7.
McGuiness, Benjamin F., Saundersville, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing loom. 1,679,618; Aug. 7.
McHugh, James E., and A. G. Fields, East St. Louis, Ill. Adjustable support for built-in bathtubs. 1,679,838; Aug. 7.
McIlvried, Howard G., McCandless Township, Allegheny County, assignor to America Sheet and Tin Plate Company, Pittsburgh, Pa. Strip-transfer apparatus. 1,679,436; Aug. 7.
McIntyre, James K., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Centrifugal pump. 1,680,057; Aug. 7.
McLean, Embury, Brooklyn, assignor to The Engineer Company, New York, N. Y. Method and apparatus for controlling furnaces. 1,680,026; Aug. 7.
McNeil, Claude P. (See Rogers, F. M., and McNeil.)
McVicker, Robert J., New York, N. Y. Attachment for mouthpieces of musical instruments. 1,680,159; Aug. 7.
Means, Dwight R., Medina County, Ohio, assignor to Pittsburgh Plate Glass Company. Soda-ash furnace. 1,679,486; Aug. 7.
Melklejohn, Roy M., Flushing, assignor to General Chemical Company, New York, N. Y. Making aluminum sulphate. 1,679,366; Aug. 7.
Meinzinger, Ernest. (See Bell, K. D., and Meinzinger.)
Meldrum, Alexander, assignor to Meldrum-Gabrielson Corporation, Syracuse, N. Y. Vehicle wheel. 1,680,160; Aug. 7.
Meldrum-Gabrielson Corporation. (See Meldrum, Alexander, assignor.)
Memco Engineering & Manufacturing Company. (See Lawson, Joel S., assignor.)
Mentges Folder Company, The. (See Mentges, John, assignor.)
Mentges, John, assignor to The Mentges Folder Company, Sidney, Ohio. Paper-folding machinery. 1,679,985; Aug. 7.
Menz, Gustav, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin-Siemensstadt, Germany. Nozzle construction for steam turbines. 1,679,619; Aug. 7.
Merica, Paul D., New York, N. Y., and T. H. Wickenden, Roselle, N. J., assignors to The International Nickel Company, New York, N. Y. Addition material for ferrous metals. 1,680,058; Aug. 7.
Merica, Paul D., New York, N. Y., and T. H. Wickenden, Roselle, N. J., assignors to The International Nickel Company, New York, N. Y. Addition material for ferrous metals. 1,680,161; Aug. 7.
Merica, Paul D., New York, N. Y., and T. H. Wickenden, Roselle, N. J., assignors to The International Nickel Company, New York, N. Y. Addition material for ferrous metals. 1,680,161; Aug. 7.
Mesta Machine Company. (See Iversen, Lorenz, assignor.)
Metcalfe, Virgil E. (See Spencer, G. L., and Metcalfe.)
Metropolitan Electric Manufacturing Company. (See Newton, William J., assignor.)
Metropolitan Lamp Co. Inc. (See Zweig, Joseph, assignor.)
Metzgar, Herbert H., Los Angeles, Calif. Cushion stool. Des. 75,979; Aug. 7.
Meunier, Leon F., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Portable tool. 1,679,776; Aug. 7.
Meyer, William, Chicago, Ill. Electric-current system. 1,679,487; Aug. 7.
Meysenburg, Wilhelm, New York, N. Y. Braking device and method of causing braking effect. 1,679,367; Aug. 7.
Michael, George and H., Benton Harbor, Mich. Smoke consumer. 1,679,909; Aug. 7.
Michael, Hurshell. (See Michael, George and H.)
Middendorf, David L., assignor to The Federal Glass Company, Columbus, Ohio. Crackled ware and semifinished blank therefor. 1,679,437; Aug. 7.
Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Beveling and sealing clamp. 1,680,059; Aug. 7.
Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-building apparatus. 1,680,162; Aug. 7.
Miele, Michael, et al. (See Miele, James, assignor.)
Miele, James, assignor of one-fourth to M. Miele and one-fourth to T. Miele, Brooklyn, N. Y. Barrel-head-seating machine. 1,679,676; Aug. 7.
Miele, Thomas, et al. (See Miele, James, assignor.)
Miguet, Paul L. J., assignor to Société Electrométallurgique de Montricher, St.-Julien-de-Maurienne, France. Feeding apparatus for electric furnaces. 1,680,163; Aug. 7.
Miller Company, The. (See Allworth, Arthur B., assignor.)
Miller Company, The. (See Doane, Leroy C., assignor.)
Miller, William B. (See Ellis, G. H., Olpin, and Miller.)
Mills, Chester B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Stabilized gyroscopic compass. 1,679,438; Aug. 7.
Millspaugh, William H., Sandusky, Ohio. Internal-combustion engine. 1,679,868; Aug. 7.
Millspaugh, William H., assignor to The Paper and Textile Machinery Company, Sandusky, Ohio. Centrifugal casting machine. 1,679,910; Aug. 7.
Milne, Winford G., assignor to The N. Slater Company, Limited, Hamilton, Ontario, Canada. Ground wire connecter. 1,679,677; Aug. 7.
Mitchell, William D., Spartanburg, S. C. Smoke protector. 1,679,839; Aug. 7.
Moberg, Arthur R., Elmhurst, assignor, by mesne assignments, to National Aluminate Corporation, Chicago, Ill. Treating water. 1,679,777; Aug. 7.
Modern Lighting Fixture Co. (See Di Gaudio, John, assignor.)
Moffitt, John A., New Haven, Conn. Toy railroad. 1,679,911; Aug. 7.
Monarch Metal Products Company. (See Lane, Alfred M., assignor.)
Mondioch, John B., assignor of one-half to Cold Spring Granite Company, Cold Spring, Minn. Automatic slide cover. 1,679,912; Aug. 7.
Montrose, Thomas W., Jersey City, N. J. Radio log and program device. 1,680,164; Aug. 7.
Moon, Asa E., Scranton, Pa. Device to determine size of yarn packages. 1,679,368; Aug. 7.
Moore, Benjamin R., assignor to Dodge Brothers, Inc., Hamtramck, Detroit, Mich. Car loading. 1,680,165; Aug. 7.
Moore Dry Kiln Company. (See Cobb, J. Forrest, assignor.)
Moore, Frank J. (See Becker, Frank J., assignor.)
Moore, Thomas M., Chicago, Ill. Yielding fastener. 1,679,620; Aug. 7.
Moraine Products Company. (See Davis, J. H., and Valentine, assignors.)
Morrill, Lewis H., assignor to The Buda Company, Harvey, Ill. Turbine construction. 1,679,913; Aug. 7.
Morris, Fred C., San Francisco, Calif. Steering-column bushing. 1,679,941; Aug. 7.
Mortarless Tile Machine Company. (See Lewis, Anson F., assignor.)
Morton, Edmund R. (See Fairchild, S. M., and Morton.)
Moss, Louis N., and J. S. Weston, Cedarhurst, N. Y. Steam generator. 1,680,166; Aug. 7.
Motz, Charles F., assignor to The Phoenix Glass Co., Monaca, Pa. Sand-blasting apparatus. 1,679,369; Aug. 7.
Mulder, Jakob, and D. C. Endert, jr., Rotterdam, Netherlands. Ventilating device for tank vessels. 1,679,678; Aug. 7.
Muller, Hermann J., Austin, Tex. Educational appliance. 1,679,536; Aug. 7.
Munitex Corporation. (See Leemann, H., and Tagliana, assignors.)
Munters, Carl G., Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,679,439; Aug. 7.
Munters, Carl G., Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,679,440; Aug. 7.
Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricating apparatus. 1,679,537; Aug. 7.
Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricating apparatus. 1,679,538; Aug. 7.
Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricating apparatus. 1,679,731; Aug. 7.

Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricating apparatus. 1,679,732; Aug. 7.
Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricating apparatus. 1,679,733; Aug. 7.
Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricating system and apparatus. 1,679,734; Aug. 7.
Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricating apparatus. 1,679,735; Aug. 7.
Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricating apparatus. 1,679,736; Aug. 7.
Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricating apparatus. 1,679,737; Aug. 7.
Murray, Richard, New York, N. Y. Floor and ceiling construction. 1,679,914; Aug. 7.
Murray, Richard, New York, N. Y. Ceiling construction. 1,679,915; Aug. 7.
Myers, William C., East St. Louis, Ill. Container. 1,679,621; Aug. 7.
Nanji, Dinshaw R., Birchfields, Birmingham, England. Manufacturing pulp for paper. 1,679,441; Aug. 7.
Nathan, John. (See Helfenstein, Frederick, jr., and J., assignor.)
National Aluminate Corporation. (See Moberg, Arthur R., assignor.)
National Carbon Company. (See Osean, Charles, assignor.)
National Carbon Company. (See Weber, Frederick L., assignor.)
National Casket Company. (See Falck, Joseph E., assignor.)
National Folding Box Company. (See Ryan, J. J., and Gaffney, assignors.)
National Malleable and Steel Castings Company. (See Robinson, David, assignor.)
National Malleable and Steel Castings Company. (See Robinson, D., and Wittmer, assignors.)
Neal, Leon P., Indianapolis, Ind. Rheostat. 1,679,539; Aug. 7.
Neill, Strange E., Bakersfield, Calif. Swimming glove. 1,679,679; Aug. 7.
Neilson, Mary D., Minneapolis, Minn. Making undergarments of inelastic material. 1,680,267; Aug. 7.
Nelson, Adolph E., Chelsea, Okla. Manhole cover for oil tanks. 1,680,060; Aug. 7.
Nelson, James M., Youngstown, Ohio. Method of and apparatus for casting metal. 1,679,582; Aug. 7.
Nelson, Reynold G., assignor to The Spun Steel Corporation, Canton, Ohio. Spun-metal manufacture and product. 1,680,061; Aug. 7.
Nelson, Samuel A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing mechanism for looms. 1,679,622; Aug. 7.
Nelson, Sven T., Michigan City, Ind., assignor to Sullivan Machinery Company. Forging machine. 1,680,254; Aug. 7.
Nenninger, Lester F. (See Einstein, S., Nenninger, and Isler.)
Nero, Arvid H., New Britain, assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. 1,679,442; Aug. 7.
Nessler, Charles, New York, N. Y. Hair-waving curler. 1,679,488; Aug. 7.
Nenhart, Emil. (See Quinn, Felix, assignor.)
Neuser, Arthur J. (See Gauger, F. A., Johnson, and Neuser.)
Nentype Instrument Company. (See Hein, George N., assignor.)
Neveux, Fortunato, Rivoli, assignor to O. M. I. M. Officina Meccanica Industria Magilleria, Turin, Italy. Striping apparatus for circular-hosiery machines. 1,679,680; Aug. 7.
Newton, Alfred J., assignor to Eastman Kodak Company, Rochester, N. Y. Preparing large assembled negatives for photoreproduction work. 1,679,942; Aug. 7.
Newton, William J., Bridgeport, Conn., assignor to Metropolitan Electric Manufacturing Company, Long Island City, N. Y. Combination mirror and illuminating device. 1,680,062; Aug. 7.
Nielson, Neal, Spencer, Iowa. Combination running-board foot pad and luggage carrier. 1,679,916; Aug. 7.
Ninnis, Albert, Reno, Nev. Food cutter and server. 1,679,583; Aug. 7.
Noda, Ichiro, Brooklyn, N. Y. Amusement device. 1,680,167; Aug. 7.
Nordstrom, Arthur E. (See Higgins, F., and Nordstrom.)
Nordstrom, Merco Valve Company. (See Nordstrom, Sven J., assignor.)
Nordstrom, Sven J., Oakland, assignor to Merco Nordstrom Valve Company, San Francisco, Calif. Valve. 1,679,370; Aug. 7.
Norellus, Emil F., Davenport, Iowa. Control unit. 1,679,584; Aug. 7.
North, George H. (See Hunt, J. O., and North.)
Norton, Allen B., and M. Guyot, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa. Metal mold. 1,679,869; Aug. 7.
Norton, Allen B., and M. Guyot, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa. Method of and mold for making castings. 1,679,870; Aug. 7.
Nugent, Francis J., Astoria, N. Y. Locking device for galleys. 1,679,778; Aug. 7.
O. M. I. M. Officina Meccanica Industria Magilleria. (See Neveux, Fortunato, assignor.)
Oberhuber, William F., Lansdowne, Pa. Valve and flanged seal. 1,679,779; Aug. 7.
Ogden, Jacob W. (See Pitney, A. H., and Ogden.)
Ohaver, David W., Rockville, Ind. Automobile headlight. 1,680,168; Aug. 7.
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Oil Devices Corporation. (See Breese, James L., jr., assignor.)
Olgay, Albert, Glen Ellyn, assignor to Gaw-O'Hara Envelope Co., Chicago, Ill. Machine for manufacturing book covers and the like. 1,679,871; Aug. 7.
Oliver, Edd C., Adrian, Mich. Twist-drill grinder. 1,679,872; Aug. 7.
Olpin, Henry C. (See Ellis, G. H., Olpin, and Miller.)
Olsen, Henry, Minneapolis, Minn. Signal-post structure. 1,679,623; Aug. 7.
Olson, Axel, and W. R. McDermott, Denver, Colo. Automobile awning. 1,679,443; Aug. 7.
Origone, Louis, Marseille, France. Fabric made of scrap felt or other pliant material. 1,679,738; Aug. 7.
Osbeck, Elmer C., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Latch for refrigerator doors and the like. 1,679,873; Aug. 7.
Osean, Charles, Woodcliff, N. J., assignor to National Carbon Company, Inc. Flash light. 1,680,169; Aug. 7.
Ostermann, Rudolf M., Evanston, Ill., assignor to The Superheater Company, New York, N. Y. Superheater for boilers. 1,679,585; Aug. 7.
Ostromislensky, Iwan, assignor, by mesne assignments, to The Pyridium Corporation, New York, N. Y. Aryl-azo-diaminopyridines useful as bactericides and making the same. 1,680,108; Aug. 7.
Ostromislensky, Iwan, assignor to The Pyridium Corporation, New York, N. Y. Obtaining neopyridium. 1,680,109; Aug. 7.
Ostromislensky, Iwan, assignor to The Pyridium Corporation, New York, N. Y. Obtaining neopyridium. 1,680,110; Aug. 7.
Ostromislensky, Iwan, assignor to The Pyridium Corporation, New York, N. Y. Phenyl-azo-alpha-alpha-diaminopyridine dihydrochlorides and obtaining the same. 1,680,111; Aug. 7.
Otaka Fabric Company, The. (See Tracy, Peter J., assignor.)
Otis, Joseph E., jr., Winnetka, assignor to The Bassick Manufacturing Company, Chicago, Ill. Pneumatic tool. 1,679,540; Aug. 7.
Otte, Otho M., Tarentum assignor to Allegheny Steel Company, Brackenridge, Pa. Ham boiler. 1,679,780; Aug. 7.
Overstrom, Gustav A., Big Sur, Calif. Electrical separation of finely-divided materials. 1,679,740; Aug. 7.
Overstrom, Gustav A., Pacific Grove, Calif. Pyroelectric separation of finely-divided materials. 1,679,739; Aug. 7.
P & M Company, The. (See Blair, Rolandis A., assignor.)
Packard, Hornce N. (See Wiegand, H. J., and Packard.)
Page, Albert E., Brooklyn, assignor to Scott & Williams, Inc., New York, N. Y. Method of and machine for making plated fabrics. 1,680,063; Aug. 7.
Page, Charles B., and W. D. Burton, Evanston, assignors to George W. Dulany, jr., Chicago, Ill. Water system. 1,679,489; Aug. 7.
Pagenhart, Benjamin F., assignor of one-fourth to J. A. Bocinny, Minneapolis, Minn. Multiple-tube tire. 1,679,444; Aug. 7.
Paine, Nathan. (See McCray, Day C., assignor.)
Paper and Textile Machinery Company, The. (See Millspaugh, William H., assignor.)
Paper Machinery Corporation. (See Heisel, Ralph E., assignor.)
Parent, Gustave A. M. L., Lille, France. Vehicle headlight. 1,680,154; Aug. 7.
Parke, Acel and J. R., Seattle, Wash. Auto signal. 1,679,681; Aug. 7.
Parke, Joe R. (See Parke, Acel and J. R.)
Parker, Frank W., Boise, Idaho. Shaper. 1,679,541; Aug. 7.
Parker, Henry L., Chicago, Ill. Cable-pulling device. 1,679,490; Aug. 7.
Parker, William S., assignor to Burson Knitting Company, Rockford, Ill. Spring-beard-needle mechanism. 1,679,624; Aug. 7.
Pass & Seymour Inc. (See Thompson, Don N., assignor.)
Pastrnak, Anton, Velke Kuncice, Czechoslovakia. Feeding device for furnaces. 1,679,874; Aug. 7.
Pauly, Robert C., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Two-hand control. 1,679,917; Aug. 7.
Pease, F. F., Inc. (See Pease, Fred F., assignor.)
Pease, Fred F., East Braintree, assignor to F. F. Pease Inc., Boston, Mass. Confectionery apparatus. 1,679,371; Aug. 7.
Pease, Fred F., East Braintree, assignor to F. F. Pease Inc., Boston, Mass. Grading and sorting apparatus. 1,679,372; Aug. 7.
Peaver, Roll M., Glendo, Wyo. Log turner. 1,679,445; Aug. 7.

Peelle, Charles W., New York, assignor to The Peelle Company, Brooklyn, N. Y. Delivery wagon. 1,680,027; Aug. 7.
Peelle Company, The. (See Peelle, Charles W., assignor.)
Penn, Albert, assignor of one-half to R. Penn, Des Moines, Iowa. Valve device for use with pumping structures. 1,680,245; Aug. 7.
Penn, Ralph. (See Penn, Albert, assignor.)
Penrod, John, and R. D. Thompson, Okmulgee, Okla. Pump for wells. 1,679,625; Aug. 7.
Perfection Stove Company. (See Resek, Marc, assignor.)
Perrault, Joseph E., assignor to Hood Rubber Company, Watertown, Mass. Manipulating multiple fasteners. 1,679,626; Aug. 7.
Petersen, Heinrich A. W., Gary, Ind. Refrigerator. 1,679,875; Aug. 7.
Peterson, Frank J., Pittsburgh, Pa. Knob. 1,680,112; Aug. 7.
Peyton, Jerry W., and J. E. Lipschutz, Washington, D. C.; said Peyton assignor to said Lipschutz. Rotary time switch. 1,679,781; Aug. 7.
Pfälzische Chamotte- und Thonwerke Schiffer & Kircher Aktiengesellschaft. (See Strack, Otto, assignor.)
Pfeiffer, Charles L., Bayside, assignor to Richard Hudnut, New York, N. Y. Bottle container or similar article. Des. 75,980; Aug. 7.
Pflug, Frederick A., Kitchener, Ontario, Canada. Liquid-dispensing apparatus. 1,679,918; Aug. 7.
Phipps, Harve H. (See Jewell, Danford, assignor.)
Phoenix Glass Co., The. (See Motz, Charles F., assignor.)
Pielstick, Gustav, assignor to the firm Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany. Vertical internal-combustion engine. 1,679,491; Aug. 7.
Pielstick, Gustav, assignor to Maschinenfabrik-Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany. Starting device for starting combustion engines. 1,679,492; Aug. 7.
Pierce, Earl F., assignor to The Bassick Manufacturing Co., Chicago, Ill. Lubricating system. 1,679,493; Aug. 7.
Pierce, Earl F., assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricating system. 1,680,170; Aug. 7.
Pine, Charles F., Oklahoma City, Okla. Pole. 1,680,172; Aug. 7.
Pioneer Instrument Company. (See Colvin, Charles H., assignor.)
Pitman, Henry L., Westfield, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,679,741; Aug. 7.
Pitney, Arthur H., and J. W. Ogden, assignors, by mesne assignments, to Pitney-Bowes Postage Meter Company, Stamford, Conn. Printing and registering mechanism. 1,680,113; Aug. 7.
Pitney, Arthur H., assignor, by mesne assignments, to Pitney-Bowes Postage Meter Company, Stamford, Conn. Printing mechanism for parcel-post postage meter machines. 1,680,114; Aug. 7.
Pitney-Bowes Postage Meter Company. (See Pitney, Arthur H., assignor.)
Pitney-Bowes Postage Meter Company. (See Pitney, A. H., and Ogden, assignors.)
Pittsburgh Plate Glass Company. (See Hitchcock, Halbert K., assignor.)
Pittsburgh Plate Glass Company. (See Means, Dwight R., assignor.)
Pittsburgh Plate Glass Company. (See Slingluff, Harry G., assignor.)
Plante, Charles A., assignor of one-fourth to P. R. Kaproth, Madison, Wis. Receiver. 1,679,986; Aug. 7.
Plochmann, Maximilian, assignor to Maschinenfabrik Augsburg-Nuernberg A.-G., Augsburg, Germany. Power plant. 1,679,494; Aug. 7.
Pollock, William, Pittsburgh, Pa. Flexible stay bolt. 1,680,229; Aug. 7.
Poole, Herbert C. (See Wysong, Maxwell W., assignor.)
Pope, William J., Piano, Ill. Fertilizer distributor. 1,680,064; Aug. 7.
Popham, Otis A., assignor of one-fourth to M. G. McElwrath, Hayti, Mo. Adjustable portable router. 1,679,446; Aug. 7.
Postel, John W., Palisade, N. J. Automobile bumper. 1,679,782; Aug. 7.
Poston, Edwin L., assignor of one-half to D. E. Alexander, Lansing, Kans. Water trap for gas wells. 1,680,255; Aug. 7.
Pownall, William A., Decatur, Ill. Fluid-treating apparatus. 1,679,373; Aug. 7.
Prachel, Chauncey U., and L. E. Branchen, assignors to Eastman Kodak Company, Rochester, N. Y. Reducing the viscosity characteristics of cellulose ethers and products thereof. 1,679,943; Aug. 7.
Prentice, G. E., Manufacturing Company. (See Legat, Robert C., assignor.)
Prentice, George E., Berlin, Conn. Slide construction. 1,679,783; Aug. 7.
Prentice, George E., Berlin, Conn. Slider for fasteners and making the same. 1,679,784; Aug. 7.
Pribnow, John F., assignor to E. C. Atkins & Company, Indianapolis, Ind. Swage shaper. 1,680,256; Aug. 7.
Proctor, Robert V., assignor to The Commercial Shearing & Stamping Company, Youngstown, Ohio. Foldable support. 1,680,065; Aug. 7.
Prosperity Company Inc., The. (See Chirst, S. R., and Braun, assignors.)
Prosperity Company, The. (See Davis, Ernest, assignor.)
Pucci, Giacomo, Westerly, R. I. Automatic register. 1,679,542; Aug. 7.
Puff, Henry, Los Angeles, Calif. Folding table. 1,679,447; Aug. 7.
Pugh, Clifford F. (See Ward, William J., assignor.)
Punke, John J., assignor to Hupp Motor Car Corporation, Detroit, Mich. Door-window regulator handle. Des. 75,981; Aug. 7.
Punke, John J., assignor to Hupp Motor Car Corporation, Detroit, Mich. Door-control garnish panel. Des. 75,982; Aug. 7.
Pyrene-Minimax Corporation. (See Graaff, Wilhelm, assignor.)
Pyridium Corporation, The. (See Ostromislensky, Iwan, assignor.)
Quelch, George C., Oakmont, Pa., assignor to International Oxygen Company, Newark, N. J. Tip for cutting torches. 1,679,586; Aug. 7.
Quinn, Felix, assignor of one-half to E. Neuhart, Buffalo, N. Y. Pig-iron mold and the like. 1,679,876; Aug. 7.
Quinn, Gilbert F., Beachmont, Mass. Toothbrush. 1,679,785; Aug. 7.
Rabezzana, Hector, assignor to A C Spark Plug Company, Flint, Mich. Spark plug. 1,679,987; Aug. 7.
Rabezzana, Hector, assignor to A C Spark Plug Company, Flint, Mich. Spark plug. 1,679,988; Aug. 7.
Rabinowitz, Bertha. (See Rabinowitz, Henry, assignor.)
Rabinowitz, Henry, assignor to B. Rabinowitz, Brooklyn, N. Y. Mechanical device. 1,679,627; Aug. 7.
Rademacher, Oscar. (See Fiebke, Carl F. W., assignor.)
Radio Corporation of America. (See Williams, P. W., and Stanley, assignors.)
Radium Dial Company. (See Goetschius, Dalton M., assignor.)
Rainbow Light, Inc. (See Machlett, Raymond R., assignor.)
Rainsford, Thomas F., assignor of one-fourth to T. C. Whitehead, Detroit, Mich. Brake construction. 1,679,495; Aug. 7.
Rajewsky, Max. (See Eisenberg, R., and Rajewsky.)
Ralston, William B., Fort Wayne, Ind. Carburetor. 1,679,742; Aug. 7.
Rastetter, William C., Fort Wayne, Ind. Collapsible chair. 1,680,173; Aug. 7.
Rauschelbach, John F., Los Angeles, Calif. Automobile signal. 1,679,944; Aug. 7.
Rawling, Francis G., Knoxville, Tenn. Pulping wood. 1,679,682; Aug. 7.
Ray, James L., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine-nozzle manifold. 1,679,496; Aug. 7.
Raytheon Inc. (See Smith, Charles G., assignor.)
Rector-Tenney Company. (See Rector, Thomas M., assignor.)
Rector-Tenney Company. (See Tenney, Dwight, assignor.)
Rector, Thomas M., assignor to Rector-Tenney Company Inc., New York, N. Y. Preserved food product and process. 1,679,543; Aug. 7.
Redman, Effie R., Chicago, Ill., assignor to Supreme Guardian Council of the Order of Job's Daughters, Omaha, Nebr. Emblem or similar article. Des. 75,983; Aug. 7.
Reenlaxion Razor Company. (See King, John L., assignor.)
Reed Roller Bit Company. (See Humason, G. A., and Childs, assignors.)
Reeves, Ernest E., Ridgeway, S. C. Circumcision clamp. 1,679,497; Aug. 7.
Reich, Otto F., assignor of one-third to C. F. Church and one-third to W. T. Church, Chicago, Ill. Golf tee. Des. 75,984; Aug. 7.
Reirden, Raymond H., Sound Beach, Conn. Portable in and out door putting green. 1,679,374; Aug. 7.
Reliable Automatic Sprinkler Co., Inc., The. (See Evans, J. E., and Griffiths, assignors.)
Remington Rand Inc. (See Lebels, Martin, assignor.)
Resek, Marc, East Cleveland, assignor to Perfection Stove Company, Cleveland, Ohio. Brooder. 1,679,920; Aug. 7.
Rhenania Verein Chemischer Fabriken A. G. (See Rothe, F., and Brenek, assignors.)
Rhodes, Homer. (See Rhodes, John and H.)
Rhodes, John and H., Legrand, Iowa. Water gauge. 1,680,174; Aug. 7.
Rice & Adams Corporation. (See Maw, Francis R., assignor.)
Rich, John L., Ottawa, Kans. Extracting petroleum. 1,679,683; Aug. 7.
Richardson, Edward E., Maumee, Ohio. Floor mat for vehicles. 1,679,498; Aug. 7.
Rieder, Frank, Huntington Park, Calif. Movable platform for unloading stock. 1,679,945; Aug. 7.
Riehm, Wilhelm, assignor to the firm: Maschinenfabrik-Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany. Internal-combustion engine with fuel injected sidewise. 1,679,743; Aug. 7.
Riley, John, & Sons Limited. (See Bentley, William H., assignor.)
Roberts, Abraham M., Osgood, Ind. Circuit tester. 1,679,786; Aug. 7.
Roberts, Eugene, assignor to The Western States Machine Company, Salt Lake City, Utah. Gyratory centrifugal. 1,680,257; Aug. 7.

Robinson, David, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupling. 1,680,115; Aug. 7.

Robinson, David, Cleveland, and R. J. Wittmer, East Cleveland, assignors to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupler. 1,680,116; Aug. 7.

Robinson, E. S., and A., Limited. (See Creasey, Benjamin J., assignor.)

Robson, John, Waterbury, Conn., assignor to Universal Engineering Corporation, Montreal, Quebec, Canada. Power plant, especially for self-propelled vehicles. 1,679,544; Aug. 7.

Roby, Edward B., North Troy, assignor to S. and R. Folding Machine Company, Inc., Green Island, N. Y. Machine for folding the edges of textile and similar articles. 1,679,375; Aug. 7.

Roby, Luther E., Peoria, Ill. Attachment mechanism. 1,679,628; Aug. 7.

Rockhill, Jerome B., New York, N. Y. Light-bulb guard member. Des. 75,985; Aug. 7.

Rockwood Sprinkler Company of Massachusetts. (See Carlson, Hjalmar G., assignor.)

Rodic Rubber Company. (See Dickey, Charles T., assignor.)

Roesch, Arthur A., assignor to Roesch Enamel Range Co., Belleville, Ill. Stove. Des. 75,986; Aug. 7.

Roesch Enamel Range Co. (See Roesch, Arthur A., assignor.)

Rogers, Francis M., and C. P. McNeil, assignors to Standard Oil Company, Whiting, Ind. Insecticide and fungicide. 1,679,919; Aug. 7.

Rohrbogenwerk Gesellschaft mit beschränkter Haftung. (See Böhling, Rudolf H., assignor.)

Róka, Koloman. (See Krause, E., and Róka.)

Rolfs, Baltus, assignor to Amity Leather Products Co., West Bend, Wis. Bill folder. 1,679,877; Aug. 7.

Rollman, Michael A., Mount Joy, Pa. Apparatus for making sheet-metal vessels. 1,679,629; Aug. 7.

Rolscreen Company. (See Dixson, Harry, assignor.)

Roscoe, Robert, Clarendon Hills, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for abrading. 1,679,376; Aug. 7.

Roser, Heinrich, Stuttgart-Cannstatt, Germany. Baking oven. 1,679,989; Aug. 7

Ross, Ernest. (See Farrand, C. L., and Ross.)

Rota, Tony, Seattle, Wash. Building tile and wall construction. 1,679,684; Aug. 7.

Roth, Charles H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tube mills. 1,679,545; Aug. 7.

Rothe, Fritz, Aachen, and H. Brenek, Porz, near Cologne, assignors to the firm Rhenania Verein Chemischer Fabriken A. G., Cologne, Germany. Obtaining pure alumina and alkali-metal carbonates. 1,680,066; Aug. 7.

Rowley, Edward G., Belleville, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,679,744; Aug. 7.

Rowley, Edward G., Belleville, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,679,878; Aug. 7.

Rowley, Edward G., Belleville, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,680,230; Aug. 7.

Roys, Lawrence, Moline, Ill. Boat building. 1,679,630; Aug. 7.

Rozinek, Arthur. (See Szikla, G., and Rozinek.)

Rubber Latex Research Corporation. (See Wescott, William B., assignor.)

Rudolff, Barnett, Bayonne, N. J. Saw-sharpening machine. 1,679,377; Aug. 7.

Rudy, Abraham, Washington, D. C. Soaring helicopter. 1,680,175; Aug. 7.

Ruff, Guy M., Los Angeles, Calif. Duplex toothbrush. 1,679,946; Aug. 7.

Ruggles-Klingemann Manufacturing Company. (See Kimball, James L., assignor.)

Runkle, Harry M. (See Battelle, G., Runkle, and Tobin.)

Rupley, William E., Los Angeles, assignor to Western Pipe & Steel Company of California, San Francisco, Calif. Method of and apparatus for making stovepipe casings. 1,679,499; Aug. 7.

Russell, J. M., Manufacturing Company. (See Russell, Theodore, assignor.)

Russell, Louis R., assignor to The Marion Steam Shovel Company, Marion, Ohio. Excavating mechanism. 1,679,879; Aug. 7.

Russell, Theodore, assignor to J. M. Russell Manufacturing Company, Naugatuck, Conn. Making sheet-metal chains. 1,680,067; Aug. 7.

Ryan, John J., and J. Gaffney, assignors to National Folding Box Company, New Haven, Conn. Display container. 1,680,028; Aug. 7.

S. and R. Folding Machine Company. (See Roby, Edward B., assignor.)

Sachs, Joseph, Hartford, Conn. Fused switch. 1,680,117; Aug. 7.

Sachs, Joseph, West Hartford, Conn. Fused switch. 1,680,118; Aug. 7.

Sadler, Frederick W., Oklahoma City, Okla. Flexible drill nipple and oil saver. 1,680,068; Aug. 7.

Sanborn, Harold C., Chicago, Ill. Wall board. 1,679,947; Aug. 7.

Sanders, William R., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Abrading apparatus. 1,679,378; Aug. 7.

Sands Production Company. (See Bartholomew, Bert E., assignor.)

Sanford, William H., Hartford, Conn. Pocketbook. 1,679,500; Aug. 7

Sanitary Products Corporation of America. (See Fine, Bernard M., assignor.)

Santo, Ernest F., Walla Walla, Wash. Stabilizer for flying machines. 1,679,379; Aug. 7.

Sas, Elmer, New York, N. Y. Golf game. 1,679,546; Aug. 7.

Savage, Harlow D. (See Jackson, G. P., and Savage.)

Schatz, Herman A. (See Smith, William F., assignor.)

Schelb, Peter J., Fort Worth, Tex. Display sign. Des. 75,987; Aug. 7.

Schenk, Nicholas, St. Louis, Mo. Sanitary pillow 1,680,069; Aug. 7.

Schermer, Adolf, Baltimore, Md. Oyster opener. 1,679,787 Aug. 7.

Schjolin, Eric O., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Engine mounting. 1,679,990; Aug. 7.

Schlegel, Robert A., assignor to Williamsport Mirror & Glass Company, Williamsport, Pa. Store window. 1,679,632; Aug. 7.

Schleier, Charles W., Cleveland, Ohio. Laundry cabinet. 1,680,176; Aug. 7.

Schmidt, Otto. (See Bauersfeld, W., and Schmidt.)

Schmitz, Joseph A., Chicago, Ill. Grain door for box cars. 1,679,880; Aug. 7.

Schmohl, Alfred C., Beaver Falls, and W. L. Burner, Koppel, assignors to Koppel Industrial Car and Equipment Company, Pittsburgh, Pa. Dump car. 1,679,547; Aug. 7.

Schrader's, A., Son, Inc. (See Volckhausen, Julius, assignor.)

Schröder, Wilhelm G., Arfrade, near Lubeck, Germany. Device for the cooling of fatty emulsions or the like. 1,679,685; Aug. 7.

Schroeter, Georg, Berlin, Germany. Purification of naphthalene. 1,680,070; Aug. 7.

Schroeder, Louis J., assignor to Hood Rubber Company, Watertown, Mass. Mold. 1,679,788; Aug. 7.

Schroth, Charles. (See Furedy, F., Schroth, and Favini.)

Schulder, Fred, Cleveland, Ohio. Combination fixture. 1,680,119; Aug. 7.

Schulze, William H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Illuminated instrument panel. 1,679,587; Aug. 7.

Schurr, Charles H., Cleveland, Ohio. Generating or grinding gear teeth. 1,680,258; Aug. 7.

Schussler, Walter H., Philadelphia, Pa. Tobacco-feeding mechanism. 1,679,948; Aug. 7.

Schutte, Hermann, Pittsburgh, Pa. Clamp for trolley conductors. 1,679,789; Aug. 7.

Schwager, Henry A., Royal Oak, assignor to General Motors Corporation, Detroit, Mich. External contracting brake. 1,679,991; Aug. 7.

Schwarz, Arthur, Vienna, Austria. Record file. 1,680,177; Aug. 7.

Scott, Henry L., Company. (See Stevenson, Robert P., assignor.)

Scott & Williams, Inc. (See Page, Albert E., assignor.)

Scusa, Lino, Phoenix, N. Y. Indicator gauge. 1,679,501; Aug. 7.

Seagraves, Hal E., Tacoma, Wash. Recording apparatus for oarsmen. 1,679,631; Aug. 7.

Sears, Sydney L., North Arlington, N. J., assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn. Bottle-making machine. 1,679,502; Aug. 7.

Seaver, Frank R., Pomona, Calif. Coding and decoding apparatus. 1,679,380; Aug. 7.

Sebrell, Lorin B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanizing rubber. 1,679,548; Aug. 7.

Sebring, E. H., China Company, The. (See Sebring, Ellsworth H., assignor.)

Sebring, Ellsworth H., assignor to The E. H. Sebring China Company, Sebring, Ohio. Square baker. Des. 75,988; Aug. 7.

Seckler, Peter E., Tulsa, Okla. Pull-rod connection. 1,679,686; Aug. 7.

Seinsheimer Paper Company, The. (See Johnson, Samuel J., assignor.)

Seiss, George J., Toledo, Ohio. Automobile horn. 1,679,745; Aug. 7.

Sell, Johann C., Detroit, Mich. Tractor-wheel clamp. 1,679,381; Aug. 7.

Seward, Edwin C. (See Alexander, Earl S., and C. Z., assignors.)

Seymour, Benjamin F., Washington, D. C. Suspension for vehicle bodies. 1,679,840; Aug. 7.

Shafer, Flora M., Albany, N. Y. Infant-napkin protector. 1,680,178; Aug. 7.

Shaft-Pierce Shoe Company. (See Shaft, Willis S., assignor.)

Shaft, Willis S., assignor to Shaft-Pierce Shoe Company, Faribault, Minn. Attaching shoe buckles. 1,679,687; Aug. 7.

Shalansky, Morris, Indianapolis, Ind. Register filter. 1,679,507; Aug. 7.

Sharples, David T., assignor to The Sharples Separator Company, West Chester, Pa. Centrifugal separator. 1,679,790; Aug. 7.

Sharples Separator Company, The. (See Sharples, David T., assignor.)

Shaw, Dexter N. (See Homerberg, V. O., and Shaw.)

Shaw, Harold N., Milwaukee, Wis. Electric connection heater. 1,679,841; Aug. 7.

Shelley, Walter F., Wabuska, Nev. Loading machine. 1,680,179; Aug. 7.

Sherman, Clifton W., and J. M. Hall, Hamilton, Ontario, Canada, assignors to Hall Draft Gear Corporation, Buffalo, N. Y. Shock absorber. 1,679,921; Aug. 7.

Shobe, Chester L., Peru, Kans. Vehicle top brace. 1,679,688; Aug. 7.

Shoner, Robert N., Fort Wayne, Ind., assignor to Utility Strate Manufacturing Company. Balance wheel for engines. 1,680,120; Aug. 7.

Short, Charles R., assignor to General Motors Research Corporation, Detroit, Mich. Universal joint with rubber inserts. 1,679,992; Aug. 7.

Siegel, William H. M., Stade, near Hamburg, Germany. Sounding board for pianos. 1,680,180; Aug. 7.

Siegrist, George R., Port Huron, Mich. Inductance coil and selective control switch therefor. 1,679,503; Aug. 7.

Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Menz, Gustav, assignor.)

Silberhartz, Philip, Brooklyn, assignor to Majestic Lamp Works, New York, N. Y. Smoker's stand. 1,679,791; Aug. 7.

Silier, Karl, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Gas-supported airship. 1,679,550; Aug. 7.

Simons, Donald M., Osborne, Pa., assignor, by mesne assignments, to General Cable Corporation. Cable joint. 1,680,231; Aug. 7.

Simpson, Herbert A., East Lansing, Mich. Hanger rod. 1,679,881; Aug. 7.

Six, William L., Kansas City, Mo. Oil burner. 1,679,633; Aug. 7.

Sjobring, Nels P., Milwaukee, Wis. Pencil. 1,679,382; Aug. 7.

Slade, Alton P. (See Bullock, E. W., and Slade.)

Slade, Roland E., Billingham-on-Tees, and K. Gordon, Stockton-on-Tees, England, assignors to Atmospheric Nitrogen Corporation, Solvay, N. Y. Removing ammonia from synthesis. 1,679,792; Aug. 7.

Slagel, Franklin G., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Float-valve mechanism. 1,679,949; Aug. 7.

Slater, N., Company, The. (See Milne, Winford G., assignor.)

Slingluff, Harry G., Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company. Edge-holding device for sheet-glass machines. 1,679,504; Aug. 7.

Smalley, Robert C., Arlington, N. J. Method and apparatus for exhausting vacuum-tube-lamp envelopes. 1,679,383; Aug. 7.

Smith, Alva T. (See Beardsley, C. E., and Smith.)

Smith, Charles G., Medford, assignor to Raytheon Inc., Cambridge, Mass. Electrical-current modification. 1,679,448; Aug. 7.

Smith, Charles G., Medford, assignor to Raytheon Inc., Cambridge, Mass. Gaseous conduction apparatus. 1,679,449; Aug. 7.

Smith, Edward D. (See Gustafson, W. S., and Smith.)

Smith, E. Payson. (See Brown, Lloyd J., assignor.)

Smith, E. Payson. (See Harbert, Victor H., assignor.)

Smith, George L. and O. C., Cleveland, Idaho. Carburetor. 1,679,793; Aug. 7.

Smith, George W., assignor to Hardsocg Wonder Drill Company, Ottumwa, Iowa. Pneumatic hammer. 1,679,689; Aug. 7.

Smith, Harold G. (See Smith, Philip A. and H. G.)

Smith, Harry L., assignor to Smith System Heating Company, Minneapolis, Minn. Portable lavatory. 1,680,121; Aug. 7.

Smith, John D., Tipton, Ind. Chicken feeder. 1,680,181; Aug. 7.

Smith, Oral C. (See Smith, George L. and O. C.)

Smith, Philip A., London, and H. G. Smith, Stockton-on-Tees, assignors to Synthetic Ammonia & Nitrates Limited, Billingham, Stockton-on-Tees, England. Manufacture of acetic acid and acetates. 1,679,904; Aug. 7.

Smith, Sydney, Chobham, assignor of one-half to S. F. Edge, Thames Ditton, England. Brake gear for motor vehicles. 1,679,690; Aug. 7.

Smith System Heating Company. (See Smith, Harry L., assignor.)

Smith, William F., assignor of one-half to H. A. Schatz, Poughkeepsie, N. Y. Valve gear. 1,679,794; Aug. 7.

Smith, William P., Capron, Va. Pulley. 1,679,691; Aug. 7.

Snavely, Clarence S., Pittsburgh, assignor to The Union Smith & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,679,795; Aug. 7.

Snead & Company. (See Macdonald, A. S., and Waite, assignors.)

Snook, Earnest R., Davenport, Iowa, assignor to Starkweather-Snook Corporation, Moline, Ill. Shock absorber. 1,679,842; Aug. 7.

Snyder, John E. (See Steinberg, S. H., and Snyder.)

Snyder, Samuel E., Brooklyn, N. Y. Sash balance. 1,679,746; Aug. 7.

Société Electrométallurgique de Montricher. (See Miguet, Paul L. J., assignor.)

Speck & Bonsmann Aktiengesellschaft. (See Cullmann, Ernst, assignor.)

Speer, Alexander S., Buffalo, N. Y., assignor, by mesne assignments, to Certain-teed Products Corporation. Manufacture of shingles. 1,679,883; Aug. 7.

Spencer, Emma F., executrix. (See Spencer, G. L., and Metcalfe.)

Spencer, Guilford L., deceased, Tinguaro, Matanzas, and V. E. Metcalfe, Delicias, Oriente, Cuba; E. F. Spencer, executrix of said G. L. Spencer, deceased, assignor to E. F. Spencer. Control system. 1,680,259; Aug. 7.

Sperry Gyroscope Company, The. (See Hall, Theodore, assignor.)

Sperry Gyroscope Company, The. (See Mills, Chester B., assignor.)

Spiro, Walter J., White Plains, N. Y. Fastening for running-board molding. 1,679,796; Aug. 7.

Spring, George B., Newton, Mass. Reenforcement for poles. 1,679,747; Aug. 7.

Spraul, Edwin, Chicago, Ill. Key-ring holder. 1,679,588; Aug. 7.

Spun Steel Corporation, The. (See Nelson, Reynold G., assignor.)

Stahl, Hans, Eisleben, Germany. Facet tooth. 1,679,384; Aug. 7.

Standard Faucet Works, Inc. (See Cooke, George W., assignor.)

Standard Oil Company. (See Rogers, F. M., and McNeil, assignors.)

Stanley, Arthur. (See Willans, P. W., and Stanley.)

Stanley, Robert W., Holyoke, Mass., assignor to Bergstan Patents Corporation, Wilmington, Del. Extension packing case. 1,680,071; Aug. 7.

Stannard, Bruce M. (See Wenn, F. D., and Stannard.)

Starkweather-Snook Corporation. (See Snook, Earnest R., assignor.)

Staver, Harry B., Chicago, Ill. Racing-track apparatus. 1,680,072; Aug. 7.

Stay, Theron D., and C. O. Tessler, Cleveland, Ohio, assignors, by mesne assignments, to Aluminum Company of America, Pittsburgh, Pa. Apparatus for reclaiming metals. 1,679,385; Aug. 7.

Steele, Edwin G. (See Sutton, H. M., and Steele.)

Steele, Walter L. (See Sutton, H. M., and Steele.)

Steere, Clarence A., Wickford, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Let-off and tension mechanism for narrowware looms. 1,679,634; Aug. 7.

Steinberg, Samuel H., and J. E. Snyder, Los Angeles, Calif. (Invalid bed. 1,679,635; Aug. 7.

Sterling Jewelry Company, The. (See Cramer, Harry I., assignor.)

Stern, Maximilian, New York, N. Y. Method and apparatus for surgical resection. 1,679,950; Aug. 7.

Stevenson, Robert P., assignor to Henry L. Scott Company, Providence, R. I. Testing machine. 1,679,751; Aug. 7.

Stewart, Annie E., administratrix. (See Stewart, William M., assignor.)

Stewart-Warner Speedometer Corporation. (See Schulze, William H., assignor.)

Stewart, William M., deceased, Albany, N. Y.; A. E. Stewart, administratrix. Tire pump. 1,679,505; Aug. 7.

Stickney, Burnham C., Portsmouth, N. H., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,679,951; Aug. 7.

Stickney, Burnham C., Portsmouth, N. H., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,679,952; Aug. 7.

Stockton, William S., Roanoke, Va. Detachable handle for receptacles. 1,680,182; Aug. 7.

Stogdale, Joseph S., Cumberland, Md. Grate. 1,679,692; Aug. 7.

Stonebraker, Harold E., assignor to Gleason Works, Rochester, N. Y. Method and mechanism for producing gears. 1,679,636; Aug. 7.

Storm, Adolph, assignor to Storm Manufacturing Company, Incorporated, Minneapolis, Minn. Cylinder-renewing machine. 1,679,506; Aug. 7.

Storm Manufacturing Company. (See Storm, Adolph, assignor.)

Strack, Otto, Auerbach, Hesse, assignor of one-half to the firm Pfälzische Chamotte- und Thonwerke Schiffer & Kircher Aktiengesellschaft, Grunstadt, Germany. Heat-exchanging structure for air heaters and the like. 1,679,993. Aug. 7.

Stratton, Ray A., Huron, S. Dak. Dental appliance for indicating the outline of the face. 1,679,748; Aug. 7.

Strickler, Thomas J., Washington, D. C., assignor of one-half to C. D. Holden. Automobile speed governor. 1,679,749; Aug. 7.

Strid, Sven J., assignor to F. Mathews, Chicago, Ill. Safety device for brake-lever spreaders. 1,679,589; Aug. 7.

Striegel, Leslie E., assignor, by mesne assignments, to F. H. Dunbar, Cleveland, Ohio. Ash gate. 1,679,549; Aug. 7.

Stromberg Electric Company. (See Long, Albert E., assignor.)

Struve, Carl J., Elgin, Ill. Journal-lubricating system. 1,679,590; Aug. 7.

Stubblefield, Buford M. (See Williamson, H. C., and Stubblefield.)

Stukart, Hendrik, assignor to U. S. Slicing Machine Company, La Porte, Ind. Knife for slicing machines. 1,679,508; Aug. 7.

Sullivan Machinery Company. (See Allen, Charles H., assignor.)

Sullivan Machinery Company. (See Cartlidge, Frank, assignor.)

Sullivan Machinery Company. (See Halvorsen, Halbert B., assignor.)

Sullivan Machinery Company. (See Lee, Frank M., assignor.)

Sullivan Machinery Company. (See Nelson, Sven T., assignor.)

Sullivan Machinery Company. (See Wineman, Wade H., assignor.)

Summers, Caleb E., assignor to General Motors Research Corporation, Dayton, Ohio. Torsional vibration indicator and recorder. 1,679,995; Aug. 7.

Superheater Company, The. (See Brandt, Carl A. W., assignor.)

Superheater Company, The. (See Hardy, Charles R., assignor.)

Superheater Company, The. (See Ostermann, Rudolf M., assignor.)

Superheater Company, The. (See Thomsen, Peter, assignor.)

Superheater Company, The. (See Van Meter, Roy J., assignor.)

Supreme Guardian Council of the Order of Job's Daughters. (See Redman, Effie R., assignor.)

Sutton, Henry M., and W. L. and E. G. Steele, Dallas, Tex. Process and apparatus for dry milling of coal and its by-products. 1,679,922; Aug. 7.

Swedish Crucible Steel Company. (See Bretaud, Joseph V., assignor.)

Sweet, Donald H., Evanston, assignor to The Bassick Manufacturing Company, Chicago, Ill. Measuring valve. 1,679,882; Aug. 7.

Sweetland, Ernest J., Hazleton, Pa. Filter. 1,680,029; Aug. 7.

Sweigart, Samuel C., Linglestown, Pa. Casket support and transfer. 1,679,797; Aug. 7.

Swensen, Alfred, Riverside, Ill. Washing machine. 1,679,798; Aug. 7.

Symington Company, The. (See Barrows, Donald S., assignor.)

Synthetic Ammonia & Nitrates Limited. (See Smith, Philip A. and H. G., assignors.)

Szikla, Géza, and A. Rozinek, Budapest, Hungary. Fuel-dust furnace. 1,680,183; Aug. 7.

Szirmay, Charles M., Cold Spring, N. Y. Hair waver. 1,679,750; Aug. 7.

T-Z Railway Equipment Co. (See Anderson, Harry T., assignor.)

Taft, Belle D., Oakland, Calif. Darning attachment for sewing machines. 1,679,509; Aug. 7.

Tagliani, Giovanni. (See Leemann, H., and Tagliani.)

Tanberg, Arthur P., and R. L. Kramer, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Finely-divided nitroguanidine and method of making same. 1,679,752; Aug. 7.

Tanner, Arnold J., North Haven, Conn. Display and dispensing container and the like. 1,679,923; Aug. 7.

Taylor, James H., Oak Park, Ill. Making nozzles. 1,680,073; Aug. 7.

Tegeler, Victor J., Hopkinton, Iowa. Draft appliance. 1,679,693; Aug. 7.

Tellefsen, Albert E. (See Bilty, C. H., and Tellefsen.)

Tenney, Dwight, Brooklyn, assignor, by mesne assignments, to Rector Tenney Company, New York, N. Y. Preservation of food products. 1,679,386; Aug. 7.

Terkelsen, Andrew. (See Terkelsen, Edwin A., assignor.)

Terkelsen, Edwin A., Boston, assignor to A. Terkelsen, Newton, Mass. Mechanical press. 1,679,637; Aug. 7.

Tessier, Charles O. (See Stay, T. D., and Tessier.)

Thomas, Horace T., Lansing, Mich. Attachment for drills. 1,679,884; Aug. 7.

Thompson, Allison J., Cleveland, Ohio. Lamp-hanger structure. 1,679,953; Aug. 7.

Thompson, Arthur T., assignor to Hightstown Rug Company, Hightstown, N. J. Loom. 1,679,638; Aug. 7.

Thompson, Don N., Syracuse, assignor to Pass & Seymour Inc., Solvay, N. Y. Support construction for electrical appliances. 1,679,799; Aug. 7.

Thompson, Henry B., Bowne Township, Kent County, Mich. Harrow. 1,679,639; Aug. 7.

Thompson, James, Greeley, Colo. Bag holder. 1,679,450; Aug. 7.

Thompson, Robert D. (See Penrod, J., and Thompson.)

Thomsen, Peter, Cassel, Germany, assignor to The Superheater Company, New York, N. Y. Flue superheater. 1,680,232; Aug. 7.

Thornton, John E., West Hampstead, London, England. Cinematograph and photographic color-film. 1,679,694; Aug. 7.

Thornton, John E., West Hampstead, London, England. Cinematograph and photographic color-film. 1,679,694; Time-O-Stat Corporation. (See Gauger, F. A., and Johnson, assignors.)

Tobin, William B. (See Battelle, G., Runkle, and Tobin.)

Topham, Laurence E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson N. J. Last-measuring stick. 1,679,387; Aug. 7.

Topham, Laurence E., Swampscott, Mass., assignor to United States Machinery Corporation, Paterson, N. J. Sewing machine. 1,679,753; Aug. 7.

Tornkvist, Erik G., New York, N. Y. Universal safety razor. 1,679,551; Aug. 7.

Townsend, Arthur J., Canton, Ohio, assignor, by mesne assignments, to The Columbia Steel Company, Pittsburgh, Pa. Electric welding method and apparatus. 1,680,233; Aug. 7.

Tracy, Peter J., assignor to The Otaka Fabric Company, Hartford, Conn. Filigree-design process. 1,679,996; Aug. 7.

Trans-Lux Daylight Picture Screen Corporation. (See Birdsall, Wilfred T., assignor.)

Traube, Abraham, Booklyn, N. Y. Cleaning device. 1,679,843; Aug. 7.

Tripplehorn, David R., Fort Worth, Tex. Pump for oil wells. 1,679,552; Aug. 7.

Troth, Clement A., assignor to Marine Equipment & Supply Company, Philadelphia, Pa. Propeller-shaft strut. 1,679,388; Aug. 7.

Trowbridge, Frank C. (See Darby, James K., assignor.)

Tyler, W. S., Company, The. (See Griffith, T. E., and Dodds, assignors.)

U. G. I. Contracting Company, The. (See Fulweiler, Walter H., assignor.)

Underwood Elliott Fisher Company. (See Dobson, William A., assignor.)

Underwood Elliott Fisher Company. (See Helmond, William F., assignor.)

Underwood Elliott Fisher Company. (See Kurowski, Alfred G. F., assignor.)

Underwood Elliott Fisher Company. (See Lindburg, Joseph, assignor.)

Underwood Elliott Fisher Company. (See Pitman, Henry L., assignor.)

Underwood Elliott Fisher Company. (See Rowley, Edward G., assignor.)

Underwood Elliott Fisher Company. (See Stickney, Burnham C., assignor.)

Underwood Elliott Fisher Company. (See Waldheim, John, assignor.)

Union Special Machine Company. (See Hanson, Nathan E., assignor.)

Union Switch & Signal Company, The. (See Snavely, Clarence S., assignor.)

United Alkali Company, The. (See Conroy, J. T., Lamble, and Latham, assignors.)

United Cigarette Machine Co. (See Koerner, Ewald, assignor.)

United Engineering & Foundry Company. (See Biggert, Florence C., jr., assignor.)

United Engineering & Foundry Company. (See Johnson, Lane, assignor.)

United Shoe Machinery Corporation. (See Barclay, William R., assignor.)

United Shoe Machinery Corporation. (See Duckworth, Harry, assignor.)

United Shoe Machinery Corporation. (See Knowlton, Cutler D., assignor.)

United Shoe Machinery Corporation. (See Topham, Laurence E., assignor.)

U. S. Slicing Machine Company. (See Stukart, Hendrik, ass'gnor.)

Universal Engineering Corporation. (See Robson, John, assignor.)

Unwin, Kenneth J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector in loom transferrers. 1,679,640; Aug. 7.

Utility Strate Manufacturing Company. (See Shoner, Robert N., assignor.)

Valentine, Albert H. (See Davis, J. H., and Valentine.)

Van Buren, John, Brooklyn, N. Y. Sealing method and mechanism for containers. 1,679,591; Aug. 7.

Van Daam, Gerrit, Kenmore, N. Y. Stool. 1,679,696; Aug. 7.

Van Duzer, Lyle J., Los Angeles, Calif. Liquid-level indicator. 1,679,451; Aug. 7.

Vance, Eleanor P. (See Yale, C. L., and Vance.)

Van Hamersveld, John J. M., Cleveland Heights, assignor to The Warner and Swasey Company, Cleveland, Ohio. Taper-turning attachment for machine tools. 1,680,074; Aug. 7.

Van Meter, Roy J., Sturgis, Mich., assignor to The Superheater Company, New York, N. Y. Exhaust-steam-pressure control for injectors. 1,680,075; Aug. 7.

Van Stone, Edward P., Reading, assignor to General Alloys Company, Boston, Mass. Box for use at high temperatures. 1,679,510; Aug. 7.

Van Valkenburg, Frederick D. (See Blades, A., and Van Valkenburg.)

Vernon, Percy V., Keresley, near Coventry, and R. Jackson, assignors to Alfred Herbert Limited, Butts, Coventry, England. Coal-pulverizing machine. 1,679,997; Aug. 7.

Vibber, Wheeler H., assignor of one-half to The Gillette-Vibber Co., New London, Conn. Electric grounding connection. 1,679,452; Aug. 7.

Victor Metal Products Corporation. (See Konigsberg, Joseph H., assignor.)

Viewegh, John H., Indianapolis, Ind. Bird cage. 1,680,184; Aug. 7.

Viewegh, John H., Indianapolis, Ind. Metal-base bird cage. 1,680,185; Aug. 7.

Volckhausen, Julius, Weehawken, N. J., assignor to A. Schrader's Son, Inc., Brooklyn, N. Y. Rim nut. 1,679,844; Aug. 7.

Voltz, Théodore, assignor to the firm Durand & Huguenen S. A., Basel, Switzerland. Chlorinated hydroaromatic products containing nitrogen and making same. 1,679,998; Aug. 7.

Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Lamp. Des. 75,989; Aug. 7.

Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Smoking stand. Des. 75,990; Aug. 7.

Von Frommer, Rudolf, Budapest, Hungary. Automatic firearm. 1,680,186; Aug. 7.

Von Jalsoviczky, Géza, Budapest, Hungary. Tractor. 1,679,754; Aug. 7.

Von Nessen, Walter, New York, N. Y., assignor to Efcolite Corporation. Lighting-fixture wall bracket. Des. 75,991; Aug. 7.

Wagenhorst, James H., Jackson, Mich. Automobile wheel. 1,679,453; Aug. 7.

Wagenhorst, James H., Jackson, Mich. Vehicle wheel. 1,679,454; Aug. 7.

Wagenhorst, James H., Jackson, Mich. Automobile wheel. 1,679,455; Aug. 7.

Wagner, Albert, assignor to Wagner Research Society, Cincinnati, Ohio. Carburetor. 1,679,456; Aug. 7.

Wagner Research Society. (See Wagner, Albert, assignor.)

Waite Carpet Company. (See Waite, Philip C., assignor.)

Waite, Charles C. (See Macdonald, A. S., and White.)

Waite, Philip C., assignor to Waite Carpet Company, Oshkosh, Wis. Rug and strand therefor. 1,679,553; Aug. 7.

Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing pick and pick loom. 1,679,641; Aug. 7.

Walden, Stanley F., Newton, Mass. Canopy for trucks. 1,679,642; Aug. 7.

Waldheim, John, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,679,845; Aug. 7.

Waldheim, John, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,680,122; Aug. 7.

Waldheim, John, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,680,123; Aug. 7.

Waldheim, John, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,680,124; Aug. 7.

Waldman, Frank E. (See Beasley, Starley F., assignor.)

Walker, Benjamin F., Bridgeport, Conn. Hand truck. 1,679,885; Aug. 7.

Wallace, R., & Sons Mfg. Co. (See Millbom, Henrik, assignor.)

Ward, William J., Hazelwood, assignor of one-half to C. F. Pugh, Pittsburgh, Pa. Grease gun. 1,679,511; Aug. 7.

Warner & Swasey Company, The. (See Craig, James A., assignor.)

Warner and Swasey Company, The. (See Van Hamersveld, John J. M., assignor.)

Warner, Chester E., Berwyn, assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Switch construction. 1,679,846; Aug. 7.

Warnock, Wallace S., Chicago, Ill. Clamping device. 1,680,030; Aug. 7.

Warren, Alonzo V., Hastings-on-Hudson, N. Y. Exhibiting apparatus or amusement device. 1,679,755; Aug. 7.

Washburn Company, The. (See Andrews, Arthur G., assignor.)

Washburn, Leon S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Mold. 1,679,554; Aug. 7.

Watkins, William E., assignor to Copper Plate Sheet and Tube Company, New York, N. Y. Furnace for treating metal. 1,679,389; Aug. 7.

Watson, Albert L., and G. L. Barden, Penn Yan, N. Y. Feeding mechanism. 1,680,187; Aug. 7.

Watson, Herbert H. (See Jennings, V. H., and Watson.)

Webb, Zaida B., Norwich, Conn. Garden doll. 1,679,847;

Webber, George C., Los Angeles, Calif. Pipe-bending apparatus. 1,679,954; Aug. 7.

Webber, George R., Augusta, Me. Display container or similar article. Des. 75,992; Aug. 7.

Weber, Frederick L., Oakland, Calif., assignor to National Carbon Company, Inc., New York, N. Y. Flashlight. 1,680,188; Aug. 7.

Weiss, George, assignor, by mesne assignments, to International Cellucotton Products Co., Chicago, Ill. Absorbent-pad machine. 1,680,268; Aug. 7.

Weller, Emery C., et al. (See de Tartas, Augustus R., assignor.)

Wellman, Samuel K., Cleveland Heights, and A. A. Gould Cleveland, Ohio. Lubricant container for grease guns. 1,680,269; Aug. 7.

Wemlinger, Julius R., Brooklyn, N. Y. Sheet piling. 1,679,800; Aug. 7.

Wenn, Floyd D., and B. M. Stannard, Binghamton, assignors to The Brewer-Titchener Corporation, Cortland, N. Y. Knobbed nut. 1,680,270; Aug. 7.

Wescott, William B., assignor to Rubber Latex Research Corporation, Boston, Mass. Plastic material. 1,680,234; Aug. 7.

Westby, Severin, Seattle, Wash. Closure cap. 1,679,697; Aug. 7.

Western Electric Company. (See Roscoe, Robert, assignor.)

Western Electric Company. (See Sanders, William R., assignor.)

Western Pipe & Steel Company of California. (See Rupley, William E., assignor.)

Western Railway Equipment Company. (See Hoerr, Louis A., assignor.)

Western States Machine Company, The. (See Roberts, Eugene, assignor.)

Western Steel Products Limited. (See Detwiler, Daniel W., assignor.)

Westinghouse Electric & Manufacturing Company. (See Cook, Joel R., assignor.)

Westinghouse Electric & Manufacturing Company. (See Ray, James L., assignor.)

Weston, Julius S. (See Moss, L. N., and Weston.)

Weydert, Hubert J., Levallois-Perret, France. Shock absorber working with progressive compression. 1,679,698; Aug. 7.

Wheelock, Edward E. (See Faubert, H. W., and Wheelock.)

Whitcomb, William H. (See Chandler, Daniel L., assignor.)

White, Charles H., assignor to Deere & Company, Moline, Ill. Trash cleaner. 1,680,031; Aug. 7.

Whitehead, Thomas C. (See Rainsford, Thomas F., assignor.)

Whitt, Frances C., et al. (See Cox, Cary S., assignor.)

Wiard, John B., Lynn, assignor to H. C. Dodge, Incorporated, South Boston, Mass. Dyanmo-electric machine. 1,679,457; Aug. 7.

Wickenden, Thomas H. (See Merica, P. D., and Wickenden.)

Wiederhold, Oscar, Philadelphia, Pa. Light for shaving and the like. 1,680,076; Aug. 7.

Wiegand, Henry J., Milwaukee, and H. N. Packard, Wauwatosa, assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controllable resistance device. 1,680,189; Aug. 7.

Wikle, George F., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Web-guiding mechanism. 1,680,190; Aug. 7.

Wilcox Patents Corporation. (See Wilcox, Lewis T., assignor.)

Wilcox, Lewis T., Peekskill, N. Y. Stove. 1,679,556; Aug. 7.

Wilcox, Lewis T., assignor to Wilcox Patents Corporation, Peekskill, N. Y. Range. 1,679,555; Aug. 7.

Willans, Peter W., Towcester, England, and A. Stanley, Broomfield, near Chelmsford, England, assignors to Radio Corporation of America. Tuning device for radio receiving sets. 1,679,459; Aug. 7.

Willard Storage Battery Company. (See Dunzweiler, Carl J., assignor.)

Williams, Alfred L., Philadelphia, Pa. Pump, engine, and the like. 1,679,592; Aug. 7.

Williams, Charles E., assignor to General Motors Corporation, Detroit, Mich. Thermostatically-controlled choker for carburetors. 1,679,999; Aug. 7.

Williams, Frederick L., and G. F. Kraft, Kansas City, Mo. Slot machine. 1,679,458; Aug. 7.

Williams, Theron H., assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car roof. 1,679,460; Aug. 7.

Williamson, Herbert C., and B. M. Stubblefield, Youngstown, Ohio. Rotary grizzly screen. 1,679,593; Aug. 7.

Williamsport Mirror & Glass Company. (See Schlegel, Robert A., assignor.)

Wineman, Wade H., Michigan City, Ind., assignor to Sullivan Machinery Company. Drill-forging mechanism. 1,680,252; Aug. 7.

Winkel, George R., assignor to N. E. Henderson & Son, Incorporated, Philadelphia, Pa. Lighting fixture. Des. 75,993; Aug. 7.

Wittmer, Russell J. (See Robinson, D., and Wittmer.)

Wolfe, Harry H., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Draft connection for car couplings. 1,679,801; Aug. 7.

Woodard, Rufus T., Oakland, Calif. Cement mantel. Re17,060; Aug. 7.

Wooding, Benjamin F., Montclair, N. J. Automatic train-control system. 1,679,390; Aug. 7.

Woods, John E., Brookline, assignor to Clifford Manufacturing Co., Boston, Mass. Water control. 1,680,235; Aug. 7.

Woolf, Pearl R., Oklahoma City, Okla. Collapsible bucket. 1,680,191; Aug. 7.

Wörsching, Richard, Starnberg, Germany. Antislipping device for stands and the like. 1,679,461; Aug. 7.

Wright, Albert E. and A. G., San Francisco, Calif. Checking tag. 1,679,699; Aug. 7.

Wright, Albert G. (See Wright, Albert E. and A. G.)

Wright-Austin Company. (See Kuhn, Wilfred H., assignor.)

Wright, John K., Detroit, Mich. Auto top and cover. 1,679,886; Aug. 7.

Wyko Projector Corporation. (See Brewister, Percy D., assignor.)

Wysong, Maxwell W., North Plainfield, assignor of one-half to H. C. Poole, Newark, N. J. Universal joint. 1,679,700; Aug. 7.

Wysong, Maxwell W., North Plainfield, assignor of one-half to H. C. Poole, Newark, N. J. Butt welding tubular articles. 1,679,701; Aug. 7.
Wysong, Maxwell W., North Plainfield, assignor of one-half to H. C. Poole, Newark, N. J. Core for flash butt welding. 1,679,702; Aug. 7.
Yale, Charlotte L. and E. P. Vance, Tryon, N. C. Figure toy. Des. 75,994; Aug. 7.
Zallocco, Eliseo, Seattle, Wash. Motor-vehicle lamp. 1,679,703; Aug. 7.
Zeiss, firm of Carl. (See Bauersfeld, W., and Schmidt, assignors.)
Zeiss, firm of Carl. (See Kabisius, Walter, assignor.)
Zerk, Oscar, now, by judicial change of name, Oscar Ulysses Zerk, Cleveland, Ohio, assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricating apparatus. 1,679,512; Aug. 7.
Zerk, Oscar, now, by judicial change of name, Oscar Ulysses Zerk, Cleveland, Ohio, assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricating apparatus. 1,679,887; Aug. 7.
Zerk, Oscar U., Cleveland, Ohio, assignor to Bassick Manufacturing Company, Chicago, Ill. Lubricating apparatus. 1,679,888; Aug. 7.
Zimmerman, Harry C., Washington, D. C. Draft coupling. 1,680,436; Aug. 7.
Zabaty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Flexible shaft connection. 1,680,000; Aug. 7.
Zucker, George L., East Orange, N. J. Weighing mechanism. 1,680,192; Aug. 7.
Zweig, Joseph, Brooklyn, assignor to Metropolitan Lamp Co. Inc., New York, N. Y. Lighting fixture. Des. 75,995; Aug. 7.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 7TH DAY OF AUGUST, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abrading apparatus. R. Roscoe. 1,679,376; Aug. 7.
Abrading apparatus. W. R. Sanders. 1,679,378; Aug. 7.
Absorbent-pad machine. G. Weiss. 1,680,268; Aug. 7.
Accordion. A. Lanka. 1,680,052; Aug. 7.
Acid and acetates, Manufacture of acetic. P. A. and H. G. Smith. 1,679,994; Aug. 7.
Acid or hydrochloric acid, Apparatus for the formation of nitric. G. Guadagni. 1,680,019; Aug. 7.
Aeroplane. H. Grunewald. 1,679,356; Aug. 7.
Airship, Dirigible. A. Faber. 1,679,565; Aug. 7.
Airship, Gas-supported. K. Siller. 1,679,550; Aug. 7.
Alarm device for alarm valves, Constant-. H. G. Carlson. 1,679,404; Aug. 7.
Alkyl cumaranes and making same. H. Jordan. 1,679,664; Aug. 7.
Alloy, Heat-resisting. A. L. Boegehold. 1,680,007; Aug. 7.
Alloy, Light metal. J. A. Gann. 1,680,262; Aug. 7.
Alloy of high resistance, Aluminum. H. Bénit. 1,680,004. Aug. 7.
Alloys and improved product, Treating copper. V. O. Homerberg and D. N. Shaw. 1,680,045-6; Aug. 7.
Aluminum sulphate, Making. R. M. Meiklejohn. 1,679,366; Aug. 7.
Ammonia from synthesis gases, Removing. R. E. Slade and K. Gordon. 1,679,792; Aug. 7.
Amusement device. I. Noda. 1,680,167; Aug. 7.
Anchor, Rail. R. A. Blair. 1,679,646; Aug. 7.
Andiron. H. J. Gross. Des. 75,973; Aug. 7.
Antenna support. M. L. Lujan. 1,679,675; Aug. 7.
Anticreeping device for railway rails. E. F. Holinger. 1,679,903; Aug. 7.
Antislipping device for stands and the like. R. Wörsching. 1,679,461; Aug. 7.
Artificial hand, Plastic. H. E. Hodgson. 1,680,022; Aug. 7.
Aryl-azo-diaminopyridines useful as bactericides and making the same. I. Ostromislensky. 1,680,108; Aug. 7.
Ash furnace, Soda-. D. R. Means. 1,679,486; Aug. 7.
Ash gate. L. E. Striegel. 1,679,549; Aug. 7.
Attachment mechanism. L. E. Roby. 1,679,628; Aug. 7.
Auto signal. A. and J. R. Parke. 1,679,681; Aug. 7.
Automatic register. G. Pucci. 1,679,542; Aug. 7.
Automobile accessory, Receptacle-holding. S. C. Fish. 1,679,715; Aug. 7.
Automobile signal. J. F. Rauschelbach. 1,679,944; Aug. 7.
Automobile wheel. J. H. Wagenhorst. 1,679,453; Aug. 7.
Automobile wheel. J. H. Wagenhorst. 1,679,455; Aug. 7.
Awning. G. S. Henritzy. 1,679,862; Aug. 7.
Awning, Automobile. A. Olson and W. R. McDermott. 1,679,443; Aug. 7.
Bag: *See*—
Garment bag.
Bag holder. J. Thompson. 1,679,450; Aug. 7.
Baker, Square. E. H. Sebring. Des. 75,988; Aug. 7.
Balance, Sash. S. E. Snyder. 1,679,746; Aug. 7.
Bank, Money. O. F. Baughman and J. Habart. 1,679,644; Aug. 7.
Battery: *See*—
Storage battery.
Battery box. W. E. Glancy. 1,679,657; Aug. 7.
Battery connection. H. E. Frasier. 1,679,716; Aug. 7.
Battery-lead connection or clamp. J. P. and H. J. Bihl. 1,680,201; Aug. 7.
Bead-covering machine. C. H. Desautels. 1,680,091; Aug. 7.
Bearings, Making. C. W. Johnson. 1,679,772; Aug. 7.
Bed, Invalid. S. H. Steinberg and J. E. Snyder. 1,679,635; Aug. 7.
Belt, Cord. N. E. Kimball. 1,679,575; Aug. 7.
Beveling and sealing clamp. T. Midgley. 1,680,059; Aug. 7.
Bill folder. B. Rolfs. 1,679,877; Aug. 7.
Blasting apparatus, Sand-. C. F. Motz. 1,679,369; Aug. 7.
Blow-out preventer. L. M. Crans. 1,679,962; Aug. 7.
Blowing machine for the manufacture of hats. E. Brecht and R. Fugmann. 1,679,851; Aug. 7.
Board: *See*—
Game board. Wall board.
Board bolt, Running-. G. C. Davis. 1,680,015; Aug. 7.
Boat building. L. Roys. 1,679,630; Aug. 7.
Boat, Logging. E. B. Allen. 1,680,195; Aug. 7.
Boat-race indicator. J. H. Hammond, jr. 1,680,040; Aug. 7.
Boiler: *See*—
Ham boiler. Water-tube boiler.
Steam boiler.
Boiler. C. A. W. Brandt. 1,680,127; Aug. 7.
Boiler and heating device, Combined. L. Courtot. 1,679,406; Aug. 7.
Boiler superheater. R. M. Ostermann. 1,679,585; Aug. 7.
Bolt: *See*—
Board bolt. Stay bolt.
Booking core machine. A. Lenz. 1,679,982; Aug. 7.
Bottle-advancing mechanism. F. R. Maw. 1,679,939; Aug. 7.
Bottle-delivery device. F., jr., and J. Helfenstein. 1,679,824; Aug. 7.
Bottle-making machine. S. L. Sears. 1,679,502; Aug. 7.
Bottle-washing machine. R. A. Manning. 1,680,106; Aug. 7.
Bowl or similar article of silverware. L. Mautner. Des. 75,978. Aug. 7.
Bowling device, Parlor. A. L. Baumann. 1,679,643; Aug. 7.
Box: *See*—
Battery box. Powder box.
Box for use at high temperatures. E. P. Van Stone. 1,679,510; Aug. 7.
Box or container, Cardboard and like. B. J. Creasey. 1,679,710; Aug. 7.
Brace: *See*—
Top brace.
Brace with tie plate, Rail. E. Johanson. 1,679,528; Aug. 7.
Bracket: *See*—
Frame bracket.
Brake: *See*—
Contracting brake.
Brake. A. Y. Dodge. 1,679,896; Aug. 7.
Brake construction. T. F. Rainsford. 1,679,495; Aug. 7.
Brake for railroad cars, Quick take-up and release hand. L. J. Brown. 1,679,403; Aug. 7.
Brake shoe and mounting therefor. M. Loughead. 1,679,484; Aug. 7.
Braking apparatus, Hydraulic. M. Charles. 1,680,204; Aug. 7.
Braking device and method of causing braking effect. W. Meysenburg. 1,679,367; Aug. 7.
Briquetting apparatus. J. H. Davis and A. H. Valentine. 1,679,408; Aug. 7.
Brooder. M. Resek. 1,679,920; Aug. 7.
Broom, Barn. R. F. Bateman. 1,680,197; Aug. 7.
Brush, Denture. H. W. Faubert and E. E. Wheelock. Des. 75,971; Aug. 7.
Bucket, Collapsible. P. R. Woolf. 1,680,191; Aug. 7.
Buckles, Attaching shoe. W. S. Shaft. 1,679,687. Aug. 7.
Building construction. P. H. Bevier. 1,679,599; Aug. 7.
Building construction. S. Klein. 1,679,672; Aug. 7.
Bung and faucet, Combination. G. W. Cooke. 1,679,604; Aug. 7.
Bumper, Automobile. K. L. Harris. 1,679,823; Aug. 7.
Bumper, Automobile. J. W. Postel. 1,679,782; Aug. 7.
Burner: *See*—
Liquid-fuel burner. Oil burner.
Bushing, Steering-column. F. C. Morris. 1,679,941; Aug. 7.
Button, Flexible. G. W. Blank. 1,680,033; Aug. 7.
Cabinet. C. Bergmann. 1,680,081; Aug. 7.
Cabinet, Combination freezer and refrigerator. R. W. Gearhart. 1,679,656; Aug. 7.
Cabinet, Ironing. D. C. McCray. 1,679,581; Aug. 7.
Cabinet, Laundry. C. W. Schleier. 1,680,176; Aug. 7.
Cable joint. D. M. Simons. 1,680,231; Aug. 7.
Cable-pulling device. H. L. Parker. 1,679,490; Aug. 7.
Cables of lightning arrester systems, Detachable connection for the. H. Heese. 1,679,969; Aug. 7.
Cage, Bird. J. H. Viewegh. 1,680,184; Aug. 7.
Cage, Metal-base bird. J. H. Viewegh. 1,680,185. Aug. 7.
Calendering device, Paper-. A. L. Dawe. 1,679,711; Aug. 7.
Cameras, Platform support for. L. W. Lessler. 1,679,613; Aug. 7.
Candler, Egg. W. S. Gustafson and E. D. Smith. 1,679,769; Aug. 7.
Canopy for trucks. S. F. Walden. 1,679,642; Aug. 7.
Cant hook and ax, Combined. W. A. Cicero. 1,679,814; Aug. 7.
Capping mechanism. C. N. Bergmann. 1,680,199; Aug. 7.
Car coupler. D. Robinson and R. J. Wittmer. 1,680,116; Aug. 7.
Car coupling. D. Robinson. 1,680,115; Aug. 7.
Car, Dump. A. C. Schmohl and W. L. Burner. 1,679,547; Aug. 7.
Carbohydrate compounds, Production of. W. Harrison. 1,680,020; Aug. 7.

Carbonates, Obtaining pure alumina and alkali-metal. F. A. Rothe and H. Brenek. 1,680,066; Aug. 7.
Carburetor. W. B. Ralston. 1,679,742; Aug. 7.
Carburetor. G. L. and O. C. Smith. 1,679,793; Aug. 7.
Carburetor. A. Wagner. 1,679,456; Aug. 7.
Carburetors, Thermostatically-controlled choker for. C. E. Williams. 1,679,999; Aug. 7.
Carrier: *See*—
Tire carrier.
Case: *See*—
Display case. Toilet case.
Packing case.
Casket, Burial. J. E. Falck. Des. 75,966,70; Aug. 7.
Casket support and transfer. S. C. Sweigart. 1,679,797; Aug. 7.
Casting ceramic pieces, Method and apparatus for. A. O. Austin. 1,679,345; Aug. 7.
Casting machine, Centrifugal. W. H. Millspaugh. 1,679,910; Aug. 7.
Casting metal, Method of and apparatus for. J. M. Nelson. 1,679,582; Aug. 7.
Castings, Method of and mold for making. A. B. Norton and M. Guyot. 1,6[illegible],870; Aug. 7.
Ceiling construction. R. Murray. 1,679,915; Aug. 7.
Cellulose acetate, Making. E. S. Farrow, jr. 1,679,966; Aug. 7.
Cellulose derivatives, Manufacture of new. L. Lilienfeld. 1,680,224; Aug. 7.
Cellulose derivatives, Treatment of. G. H. Ellis, H. C. Olpin, and W. B. Miller. 1,679,935; Aug. 7.
Cellulose ethers and products thereof, Reducing the viscosity characteristics of. C. U. Prachel and L. E. Branchen. 1,679,943; Aug. 7.
Cellulosic material, Manufacture of woollike. W. Harrison. 1,680,021; Aug. 7.
Centrifugal separator. E. Kopke. 1,679,829; Aug. 7.
Centrifugal separator. D. T. Sharples. 1,679,790; Aug. 7.
Chain lock, Tire-. W. F. Helwig. 1,679,902; Aug. 7.
Chains, Making sheet-metal. T. Russell. 1,680,067; Aug. 7.
Chair: *See*—
Collapsible chair.
Chandelier. J. Di Gaudio. Des. 75,959; Aug. 7.
Channel construction for the sides and tops of tanks of vessels. W. G. Bartenfeld. 1,679,926; Aug. 7.
Check-book holder and bill fold, Combined. A. L. Bohl. 1,679,807; Aug. 7.
Cigarette-packing machines, Throw-out mechanism for. E. Koerner. 1,680,023; Aug. 7.
Circuit-breaker system, Automatic reclosing. H. W. Brown. 1,680,129; Aug. 7.
Circuit closer for direction signals. E. V. Laugeson. 1,679,833; Aug. 7.
Circuit tester. A. M. Roberts. 1,679,786; Aug. 7.
Circumcision clamp. E. E. Reeves. 1,679,497; Aug. 7.
Clamp: *See*—
Circumcision clamp. Electrical-conductor clamp.
Cord clamp. Wheel clamp.
Clamp for trolley conductors. H. Schutte. 1,679,789; Aug. 7.
Clamping device. W. S. Warnick. 1,680,030; Aug. 7.
Cleaner: *See*—
Tube cleaner. Windshield cleaner.
Cleaner and elevator, Combined grain. D. W. Detwiler. 1,679,516; Aug. 7.
Cleaning device. A. Traube. 1,679,843; Aug. 7.
Cleaning device, Clothesline-. A. F. Broderick. 1,679,401; Aug. 7.
Clock case. E. Garay. Des. 75,972; Aug. 7.
Clock mechanism, Corrective device for secondary. A. E. Long. 1,679,534; Aug. 7.
Closet: *See*—
Water-closet.
Closure cap. S. Westby. 1,679,697; Aug. 7.
Coal and its by-products, Process and apparatus for dry milling of. H. M. Sutton and W. L. and E. G. Steele. 1,679,922; Aug. 7.
Coding and decoding apparatus. F. R. Seaver. 1,679,380; Aug. 7.
Coil and selective control switch therefor, Inductance. G. R. Siegrist. 1,679,503; Aug. 7.
Coil, Electric. D. B. Hill. 1,679,471; Aug. 7.
Collapsible chair. W. C. Rastetter. 1,680,173; Aug. 7.
Comb for long bobs. S. Caison. 1,679,895; Aug. 7.
Compass, Degree. A. G. Covell. 1,679,931; Aug. 7.
Compass having a lengthening device of legs, Drawing. K. Akashi. 1,680,194; Aug. 7.
Compass, Magnetic. C. H. Colvin. 1,679,764; Aug. 7.
Compass, Stabilized gyroscopic. C. B. Mills. 1,679,438; Aug. 7.
Compresses for cotton bales, High-density attachment for. G. W. Langford, A. C. Barrows, and C. W. Good. 1,679,979; Aug. 7.
Compressor, Lubricant. E. W. Davis. 1,679,855; Aug. 7.
Compressor roll. L. S. Hall. 1,679,571; Aug. 7.
Concrete surfaces, Constructing. H. G. Lykken. 1,679,535; Aug. 7.
Condenser, Detector. J. J. Aurynger. 1,679,341; Aug. 7.
Condenser for ice machines. G. I. Leonard. 1,679,430; Aug. 7.
Condenser, Variable electrical. J. C. Barrett. 1,680,239; Aug. 7.
Conduction apparatus, Gaseous. C. G. Smith. 1,679,449; Aug. 7.
Conduit, Underground. H. W. Jewell. 1,679,427; Aug. 7.
Confectionery apparatus. F. F. Pease. 1,679,371; Aug. 7.
Connecter, Ground-wire. W. G. Milne. 1,679,677; Aug. 7.
Connecting the operating members of vehicle rebound checks with vehicle parts. G. W. Elsey. 1,679,414; Aug. 7.
Container. W. C. Myers. 1,679,621; Aug. 7.
Container and the like, Display and dispensing. A. J. Tanner. 1,679,923; Aug. 7.
Container, Display. J. J. Ryan and J. Gaffney. 1,680,028; Aug. 7.
Container, Dustless ash. W. Ditsch and F. O. Davis. 1,679,856; Aug. 7.
Container filler, Ice-cream-. C. G. Johnston. 1,679,609; Aug. 7.
Container for airships, Gas. W. E. Doerr and E. A. Lehmann. 1,679,564; Aug. 7.
Container for grease guns, Lubricant. S. K. Wellman and A. A. Gould. 1,680,269; Aug. 7.
Container for liquids. J. W. McConnon. 1,679,984; Aug. 7.
Container for pencils and other articles, Mailing. C. F. Elmore. 1,679,897; Aug. 7.
Container, Medical-tablet. B. F. Conner. 1,680,130; Aug. 7.
Container or similar article, Bottle. C. L. Pfeiffer. Des. 75,980; Aug. 7.
Container or similar article, Display. G. R. Webber. Des. 75,992; Aug. 7.
Container, External. H. A. Schwager. 1,679,991; Aug. 7.
Contracting brake, External. H. A. Schwager. 1,679,991; Aug. 7.
Control apparatus, Pilot and burner. F. A. Gauger. 1,680,263; Aug. 7.
Control system. G. L. Spencer, and V. E. Metcalfe. 1,680,259; Aug. 7.
Control, Two-hand. R. C. Pauly. 1,679,917; Aug. 7.
Control, unit. E. F. Norelius. 1,679,584; Aug. 7.
Controlling mechanism. C. D. Knowlton. 1,679,362; Aug. 7.
Convection heater, Electric. H. N. Shaw. 1,679,841; Aug. 7.
Conveyer. J. W. Greer. 1,679,717; Aug. 7.
Conveyer, Portable building-material. J. D. Lawrence. 1,679,981; Aug. 7.
Conveying away exhaust gases from motor cars in garages. M. Baumgartel. 1,679,705; Aug. 7.
Cooling of fatty emulsions or the like, Device for the. W. G. Schröder. 1,679,685; Aug. 7.
Cord clamp. H. Hubbell. 1,679,723; Aug. 7.
Cotton fabric and manufacturing the same. E. Gminder. 1,679,767; Aug. 7.
Cotton gin. C. S. Cox. 1,680,132; Aug. 7.
Coupler, Hose. C. G. Cooper. 1,679,709; Aug. 7.
Coupling: *See*—
Car coupling. Pipe coupling.
Draft coupling.
Coupling apparatus, Car-. H. K. Hitchcock. 1,679,472; Aug. 7.
Coupling member. O. J. Herb. 1,679,863; Aug. 7.
Cover. A. Lochok. 1,679,775; Aug. 7.
Cover, Automatic slide. J. B. Mondloch. 1,679,912; Aug. 7.
Cover, Hatch. J. W., and W. Isherwood. 1,679,526; Aug. 7.
Cover for ice-tray compartments in refrigerating apparatus, Detachable. H. R. Loranger. 1,679,615; Aug. 7.
Cover for oil tanks, Manhole. A. E. Nelson. 1,680,060; Aug. 7.
Crackled ware and a semifinished blank therefor. D. L. Middendorf. 1,679,437; Aug. 7.
Crate and cover, Bathtub shipping. P. M. Bees. 1,679,891; Aug. 7.
Crepe and method of and apparatus for making the same. W. E. Cannard. 1,680,203; Aug. 7.
Cup: *See*—
Sputum cup.
Curler, Hair-waving. C. Nessler. 1,679,488; Aug. 7.
Current modification, Electrical. C. G. Smith. 1,679,448; Aug. 7.
Current system, Electric-. W. Meyer. 1,679,487; Aug. 7.
Cutter: *See*—
Pipe cutter.
Cutter and server, Feed. A. Ninnis. 1,679,583; Aug. 7.
Cutting mechanism, Web-. B. M. Fine. 1,679,655; Aug. 7.
Cylinder, Engine. J. M. H. Jacobs. 1,679,973; Aug. 7.
Cylinder-renewing machine. A. Storm. 1,679,506; Aug. 7.
Damper for blanket and curtain drying machines. J. E. McCarthy. 1,679,940; Aug. 7.
Darning attachment for sewing machines. B. D. Taft. 1,679,509; Aug. 7.
Dental appliance for indicating the outline of the face. R. A. Stratton. 1,679,748; Aug. 7.
Dental engine. W. Cordes. 1,680,206; Aug. 7.
Depth gauge. W. Kabisius. 1,679,473; Aug. 7.
Derrick structure for oil, gas, and artesian wells. G. Battelle, H. M. Runkle, and W. B. Tobin. 1,680,198; Aug. 7.
Desk pad. C. R. Home. 1,679,423; Aug. 7
Detachable lock. C. A. Carpenter. 1,679,648; Aug. 7.
Device to determine size of yarn packages. A. E. Moon. 1,679,368; Aug. 7.
Die-throwing device. J. Jung. 1,679,360; Aug. 7.
Differential, Double-radius-controlled. H. A. Knox. 1,679,610; Aug. 7.
Discharge tube, Argon-mercury. R. R. Machlett. 1,680,271; Aug. 7.

Dish drier. A. G. Andrews. 1,679,594; Aug. 7.
Dishwashing machine. G. W. Conover. 1,679,465; Aug. 7.
Dispenser for paper napkins and like articles. J. O. Hunt and G. H. North. 1,679,904; Aug. 7.
Dispensing apparatus, Liquid-. F. A. Pflug. 1,679,918; Aug. 7.
Dispensing machine. A. F. Files. 1,679,967; Aug. 7.
Display apparatus. B. J. Buckingham. 1,680,034–5; Aug. 7.
Display case. A. L. Garniss. 1,679,468; Aug. 7.
Display device. J. S. Dawley. 1,680,016; Aug. 7.
Display stand. W. H. Magee. 1,680,226; Aug. 7.
Distribution, System of. W. S. Gould. 1,680,149; Aug. 7.
Distributor for fluid-pressure brakes. D. Božić. 1,679,348; Aug. 7.
Doll, Garden. Z. B. Webb. 1,679,847; Aug. 7.
Door, Fireproof metal. J. E. Lee. 1,680,221; Aug. 7.
Door for box cars, Grain. J. A. Schmitz. 1,679,880; Aug. 7.
Door-mounting means. W. S. Crawford. 1,680,133; Aug. 7.
Door-window regulator handle. J. J. Punke. Des. 75,981; Aug. 7.
Double-acting engine. C. E. Keas. 1,679,668; Aug. 7.
Draft appliance. V. J. Tegeler. 1,679,693; Aug. 7.
Draft connection for car couplings. H. H. Wolfe. 1,679,801; Aug. 7.
Draft coupling. H. C. Zimmerman. 1,680,236; Aug. 7.
Draining the low-pressure blading of steam turbines. K. Frey. 1,679,519; Aug. 7.
Drapery-pole bracket. A. Diouhy. Des. 75,963–4; Aug. 7.
Drapery-pole end. A. Diouhy. Des. 75,960–2; Aug. 7.
Drawing apparatus, Metal-. D. C. Kinnear. 1,679,906; Aug. 7.
Drier: *See*—
Dish drier. Fruit drier.
Drill: *See*—
Radial drill.
Drill nipple and oil saver, Flexible. F. W. Sadler. 1,680,068; Aug. 7.
Drills, Attachment for. H. T. Thomas. 1,679,884; Aug. 7.
Drilling and pinning knife handles and the like, Machine for. M. Farnsworth. 1,679,415; Aug. 7.
Drilling machine and like machine tool, Electrically-driven. G. Feather. 1,680,212; Aug. 7.
Drilling machine, Radial-. G. Feather. 1,680,213; Aug. 7.
Drilling machine, Rotary well-. J. H. and R. J. Holmgreen. 1,679,825; Aug. 7.
Drilling motor, Rock-. C. H. Allen. 1,680,247; Aug. 7.
Drilling or tapping machine, Automatic. A. M. Johnson. 1,679,530; Aug. 7.
Dyeing on vegetable fibers, Reserve. H. Leemann. 1,679,477–81; Aug. 7.
Easel. M. E. Mathias. 1,680,056; Aug. 7.
Eccenter. W. F. Houston. 1,679,425; Aug. 7.
Educational appliance. H. J. Muller. 1,679,536; Aug. 7.
Electric element. E. D. Brand. 1,680,010; Aug. 7.
Electric heater. E. O. Hopp. 1,679,424; Aug. 7.
Electric jointer, Portable. A. A. Clarke. 1,679,562; Aug. 7.
Electric machine, Dynamo-. J. B. Wiard. 1,679,457; Aug. 7.
Electric motor. C. T. Bradshaw. 1,679,957; Aug. 7.
Electric switch. A. H. Nero. 1,679,442; Aug. 7.
Electric switch, Lever-operated. M. Guett. 1,680,101; Aug. 7.
Electrical-conductor clamp. J. S. Lawson. 1,680,053; Aug. 7.
Electrical connection. N. J. Celenza. 1,679,960; Aug. 7.
Electricity meter, Direct-current. S. Z. De Ferranti. 1,679,712; Aug. 7.
Electrolyte, Rectifier. E. W. Engle. 1,680,210; Aug. 7.
Electromagnetic device. C. L. Farrand and E. Ross. 1,679,765; Aug. 7.
Electromagnetic instrument. W. Herzog. 1,680,216; Aug. 7.
Emblem or similar article. E. R. Redman. Des. 75,983; Aug. 7.
Emulsions and product thereof, Making. L. Kirschbraun. 1,679,475; Aug. 7.
Engine: *See*—
Dental engine. Internal-combustion engine.
Double-acting engine. Power engine.
Engine construction. C. E. Bonner. 1,679,463; Aug. 7.
Engine mounting. E. O. Schjolin. 1,679,990; Aug. 7.
Engine of the opposed-piston type, Two-stroke. G. Fornaca. 1,680,017; Aug. 7.
Engine with fuel injected sidewise, Internal-combustion. W. Riehm. 1,679,743; Aug. 7.
Engine with self-ignition, Combustion power. F. Lang. 1,679,831; Aug. 7.
Engines, Balance wheel for. R. N. Shoner. 1,680,120; Aug. 7.
Engines, Fuel injector for internal-combustion. J. W. Enright. 1,679,818; Aug. 7.
Entrainment-controlling mechanism for auxiliary motors. B. Haskell, jr. 1,679,719; Aug. 7.
Excavating mechanism. L. R. Russell. 1,679,879; Aug. 7.
Exhausting vacuum-tube-lamp envelopes, Method and apparatus for. R. C. Smalley. 1,679,383; Aug. 7.
Exhibiting apparatus or amusement device. A. V. Warren. 1,679,755; Aug. 7.
Extractor: *See*—
Grease extractor.
Fabric: *See*—
Paper fabric.
Fabric made of scrap felt or other pliant material. L. Origone. 1,679,738; Aug. 7.
Fabrics, Method of and machine for making plated. A. E. Page. 1,680,063; Aug. 7.
Facet tooth. H. Stahl. 1,679,384; Aug. 7.
Farinaceous rolls, Making tubular. C. R. Haskell. 1,679,660; Aug. 7.
Fastener. M. F. Carr. 1,680,244; Aug. 7.
Fastener, Automatic. J. Galat. 1,680,266; Aug. 7.
Fastener, French-window and door casement. B. E. Bartholomew. 1,679,955; Aug. 7.
Fastener, Yielding. T. M. Moore. 1,679,620; Aug. 7.
Fasteners, Manipulating multiple. J. E. Perrault. 1,679,626; Aug. 7.
Fasteners, Slider for. R. C. Legat. 1,679,866; Aug. 7.
Fastening for running-board molding. W. J. Spiro. 1,679,796; Aug. 7.
Feeder, Chicken. J. D. Smith. 1,680,181; Aug. 7.
Feeder, Disk. L. C. Bonnot. 1,679,398; Aug. 7.
Feeding and metering pulverulent or granular material, Apparatus for. E. G. Bailey. 1,679,557; Aug. 7.
Feeding apparatus for electric furnaces. P. L. J. Miguet. 1,680,163; Aug. 7.
Feeding device for furnaces. A. Pastrňák. 1,679,874; Aug. 7.
Feeding mechanism. A. L. Watson and G. L. Barden. 1,680,187; Aug. 7.
Feeding mechanism, Tobacco-. W. H. Schussler. 1,679,948; Aug. 7.
Fertilizer distributor. W. J. Pope. 1,680,064; Aug. 7.
File, Record. A. Schwarz. 1,680,177; Aug. 7.
Filigree-design process. P. J. Tracy. 1,679,996; Aug. 7.
Filing or indexing appliance. W. D. McFall. 1,679,365; Aug. 7.
Film cartridge, Photographic-. C. A. Bornmann. 1,679,956; Aug. 7.
Film-feeding device for projectors. P. D. Brewster. 1,679,399; Aug. 7.
Film material, Cinematograph. J. E. Thornton. 1,679,695; Aug. 7.
Film material, Cinematograph and photographic color-. J. E. Thornton. 1,679,694; Aug. 7.
Filter. E. J. Sweetland. 1,680,029; Aug. 7.
Filter for variable-load circuits, Electric wave. R. G. McCurdy. 1,679,434; Aug. 7.
Filter, Register. M. Shalansky. 1,679,507; Aug. 7.
Fire-extinguishing apparatus, Foam. W. Granff. 1,679,859; Aug. 7.
Firearm, Automatic. R. von Frommer. 1,680,186; Aug. 7.
Fixture, Combination. F. Schulder. 1,680,119; Aug. 7.
Fixture hanger. T. A. Brown. 1,679,706; Aug. 7.
Flash light. C. Ocean. 1,680,169; Aug. 7.
Flash light. F. L. Weber. 1,680,188; Aug. 7.
Floor and ceiling construction. R. Murray. 1,679,914; Aug. 7.
Flue dust for smelting in blast furnaces, Preparing. F. P. Marquard. 1,680,107; Aug. 7.
Fluid-pressure regulator. A. F. Jenkins. 1,679,826; Aug. 7.
Focusing device. B. F. Lollis. 1,679,577; Aug. 7.
Folding table. H. Howe. 1,679,426; Aug. 7.
Folding table. H. Puff. 1,679,447; Aug. 7.
Food product and process, Preserved. T. M. Rector. 1,679,543; Aug. 7.
Forging machine. H. B. Halvorsen. 1,680,251; Aug. 7.
Forging machine. H. B. Halvorsen. 1,680,253; Aug. 7.
Forging machine. S. T. Nelson. 1,680,254; Aug. 7.
Forging mechanism, Drill-. W. H. Wineman. 1,680,252; Aug. 7.
Fork or similar article. E. T. Beck. Des. 75,950; Aug. 7.
Formaldehyde from methylene chloride, Making. E. Krause and K. Róka. 1,679,673; Aug. 7.
Forming projections in recesses. G. Brown and A. B. Appler. 1,679,349; Aug. 7.
Frame: *See*—
Side frame.
Frame bracket, Tube-. G. P. Findlay. 1,679,654; Aug. 7.
Frostproof guard. A. H. Allerheiligen, L. F. Crain, and C. Erichsen. 1,679,802; Aug. 7.
Fruit drier. E. D. Higby. 1,679,720; Aug. 7.
Fruit-treating apparatus. E. M. Brogden. 1,680,260; Aug. 7.
Fuel-dust furnace. G. Szikla and A. Rozinek. 1,680,183; Aug. 7.
Fuels, Burning liquid. J. L. Breese, jr. 1,680,085; Aug. 7.
Furnace: *See*—
Ash furnace. Fuel-dust furnace.
Furnace. E. Lundgren. 1,679,864; Aug. 7.
Furnace. G. P. Jackson and H. D. Savage. 1,679,724; Aug. 7.
Furnace and converter using preheated air, Fuel-heated. O. Lellep. 1,680,155; Aug. 7.
Furnace and operating mechanism therefor, Electric. S. rnold, 3d. 1,680,237; Aug. 7.
Furnace for treating metal. W. E. Watkins. 1,679,389; Aug. 7.
Furnaces, Method and apparatus for controlling. E. McLean. 1,680,026; Aug. 7.
Furniture, Folding. N. N. Brown. 1,679,514; Aug. 7.
Fuse or cut-out, Electric. V. Hope. 1,679,971; Aug. 7.

Fused switch. J. Sachs. 1,680,117–18; Aug. 7.
Game board, Checker-. J. M. Dalrymple. 1,679,652; Aug. 7.
Game, Lawn pool. W. S. Hasskarl and M. Marder. 1,679,659; Aug. 7.
Game table. H. Berg. Des. 75,951–2; Aug. 7.
Garden implement. J. H. Bockstadter. 1,679,806; Aug. 7.
Garment, Apparel. W. Kops. 1,680,051; Aug. 7.
Garment bag. S. J. Johnson. 1,679,828; Aug. 7.
Gas producer. G. H. Bentley and E. G. Appleby. 1,679,645; Aug. 7.
Gases, Purifying of. W. H. Fulweiler. 1,679,858; Aug. 7.
Gate: *See*—
Ash gate.
Gauge: *See*—
Depth gauge. Steam gauge.
Indicator gauge. Water gauge.
Gear carrier iron and tank-band anchor, Draft-. S. F. Bensley. 1,680,003; Aug. 7.
Gear-chamfering machine and method for chamfering gear teeth. A. Blades and F. D. Van Valkenburg. 1,680,083; Aug. 7.
Gear, Differential. R. L. Dennison. 1,680,134; Aug. 7.
Gear, Draft. L. A. Hoerr. 1,679,607; Aug. 7.
Gear for motor vehicles, Brake. S. Smith. 1,679,690; Aug. 7.
Gear-shifting mechanism, Selective. R. N. Dulaney. 1,679,353; Aug. 7.
Gear teeth, Generating or grinding. C. H. Schurr. 1,680,258; Aug. 7.
Gear, Valve. W. F. Smith. 1,679,794; Aug. 7.
Gearing, Transmission. G. C. Carhart. 1,679,812; Aug. 7.
Gears, Method and mechanism for producing. H. E. Stonebraker. 1,679,636; Aug. 7.
Generator: *See*—
Steam generator.
Geometric instrument. J. F. Duby. 1,679,934; Aug. 7.
Glu-breast lift. T. Elliott. 1,680,140; Aug. 7.
Glass apparatus, Sheet-. J. C. Blair. 1,680,241; Aug. 7.
Glass-drawing apparatus, Sheet-. L. D. Blackshere. 1,680,240; Aug. 7.
Glass press. W. T. Barker, jr. 1,679,848; Aug. 7.
Glass-protecting means and method, Sheet-. L. Mambourg. 1,680,227; Aug. 7.
Glove, Swimming. J. L. Linder. 1,679,836; Aug. 7.
Glove, Swimming. S. E. Neill. 1,679,679; Aug. 7.
Golf-ball tee. R. R. Lundy. 1,679,579; Aug. 7.
Golf game. E. Sas. 1,679,546; Aug. 7.
Golf tee. O. F. Reich. Des. 75,984; Aug. 7.
Governor, Automobile speed. T. J. Strickler. 1,679,749; Aug. 7.
Grader, Leaning wheel. F. E. Arndt. 1,679,803; Aug. 7.
Grading and sorting apparatus. F. F. Pease. 1,679,872; Aug. 7.
Grading device, Sand-. F. M. and C. O. Anderson. 1,679,757; Aug. 7.
Grate. J. S. Stogdale. 1,679,492; Aug. 7.
Grease extractor. F. E. Lynn. 1,679,728; Aug. 7.
Grease gun. W. J. Ward. 1,679,541; Aug. 7.
Grease-gun connection, High-pressure. L. Edelmann. 1,680,178; Aug. 7.
Grinder, Cutter. S. Einstein, L. F. Nenninger, and H. R. Isler. 1,679,413; Aug. 7.
Grinder, Twist drill. E. C. Oliver. 1,679,872; Aug. 7
Grinder, Valve. D. Manchi. 1,679,983; Aug. 7.
Grinding machine, Gear-. E. W. Bullock and A. P. Slade. 1,679,809; Aug. 7.
Grizzly screen, Rotary. H. C. Williamson and B. M. Stubblefield. 1,679,593; Aug. 7.
Grounding connection, Electric. W. H. Vibber. 1,679,452; Aug. 7.
Guide, Drainpipe. C. H. Bilty and A. E. Tellefsen. 1,679,559; Aug. 7.
Guide for overseaming machines, Work. M. Köhler. 1,679,363; Aug. 7.
Gyratory centrifugal. E. Roberts. 1,680,257; Aug. 7.
Gyroscopic control of cameras and other optical devices. S. M. Fairchild and E. R. Morton. 1,679,354; Aug. 7.
Hair waver. C. M. Szirmay. 1,679,750; Aug. 7.
Hair waving device. M. L. Eberhart. 1,679,653; Aug. 7.
Ham boiler. O. M. Otte. 1,679,780; Aug. 7.
Hammer, Pneumatic. G. W. Smith. 1,679,689; Aug. 7.
Handle for receptacles, Detachable. W. S. Stockton. 1,680,182; Aug. 7.
Handle for waterless cookers. R. F. Krause. 1,679,429; Aug. 7.
Hanger: *See*—
Fixture hanger. Wash hanger.
Hanger rod. H. A. Simpson. 1,679,881; Aug. 7.
Harrow. H. B. Thompson. 1,679,639; Aug. 7.
Hat, Adjustable. P. A. Fischer. Re17,064; Aug. 7.
Headlight, Automobile. D. W. Shaver. 1,680,168; Aug. 7.
Headlight, Vehicle. G. A. M. L. Parent. 1,680,154; Aug. 7.
Headlights, Antiglare attachment for. A. R. de Tartas. 1,680,037; Aug. 7.
Hearing, Apparatus for aiding. F. W. Kranz. 1,679,532; Aug. 7.
Heat exchanger. N. R. Forsslund. 1,680,145; Aug. 7.
Heat-producing composition. C. E. Lyon. 1,6 1,432; Aug. 7.
Heater: *See*—
Convection heater. Water heater.
Electric heater. Windshield heater
Orchard heater.
Heater. H. L. Bevier. 1,680,095; Aug. 7.
Heater. F. Grady. 1,679,937; Aug. 7.
Heater appliance. F. A. Gauger and R. W. Johnson. 1,680,049; Aug. 7.
Heaters and the like, Heat-exchanging structure for air. O. Strack. 1,679,993; Aug. 7.
Heating apparatus and method, Electrical. A. S. Macdonald. 1,679,730; Aug. 7.
Heating apparatus, Engine-. J. Good. 1,679,521; Aug. 7.
Heating element, Electric. S. S. Bolsinger. 1,680,084; Aug. 7.
Heating system, Water-. F. F. Dale and I. W. Grace. 1,680,014; Aug. 7.
Hedge trimmer. J. G. Himler. 1,679,421; Aug. 7.
Helicopter, Soaring. A. Rudy. 1,680,175; Aug. 7.
Hides and skins, Composition of matter for treating. H. Dodge. 1,680,136; Aug. 7.
High-frequency apparatus. W. L. Carlson. 1,680,086; Aug. 7.
Holder, Folding tree. A. Keppens. 1,680,050; Aug. 7.
Holder, Key-ring. E. Spraul. 1,679,588; Aug. 7.
Holding device for sheet-glass machines, Edge-. H. G. Slingluff. 1,679,504; Aug. 7.
Holly and like plants and products derived therefrom, Treating. S. M. Hoye. 1,679,525. Aug. 7.
Horn, Automobile. G. J. Seiss. 1,679,745; Aug. 7.
Hydroaromatic products containing nitrogen and making same, Chlorinated. T. Voltz. 1,679,998; Aug. 7.
Ignition system. W. Hemingway, jr. 1,679,771; Aug. 7.
Illuminated city name and license double-number plate and direction signal attachment therefor. J. Klamer. 1,679,671; Aug. 7.
Indicator: *See*—
Boat-race indicator. Level indicator.
Indicator. C. B. Ficklen. 1,679,821; Aug. 7.
Indicator and recorder, Torsional vibration. C. E. Summers. 1,679,995; Aug. 7.
Indicator gauge. L. Sousa. 1,679,501; Aug. 7.
Inhaler, Vaporizing. F. C. Dorment. 1,679,816; Aug. 7.
Injectors, Exhaust steam pressure control for. R. J. Van Meter. 1,680,075; Aug. 7.
Insecticide and fungicide. F. M. Rogers and C. P. McNeil. 1,679,919; Aug. 7.
Instrument for administering medicines to animals. N. Aas. 1,679,391; Aug. 7.
Insulating fill, Heat-. H. D. Geyer. 1,679,419; Aug. 7.
Internal-combustion engine. J. O. Almen. 1,679,924; Aug. 7.
Internal-combustion engine. E. R. Burtnett. 1,679,958–9; Aug. 7.
Internal-combustion engine. E. H. Friend and A. G. Bentley. 1,679,766; Aug. 7.
Internal-combustion engine. H. Junkers. 1,679,976; Aug. 7.
Internal-combustion engine. W. H. Millspaugh. 1,679,868; Aug. 7.
Internal-combustion engine, Vertical. G. Pielstick. 1,679,491; Aug. 7.
Ironing machine. T. N. Brown. 1,679,808; Aug. 7.
Jack: *See*—
Lifting jack. Window jack.
Jar or similar container. H. Charpentier. Des. 75,953–4; Aug. 7.
Joint: *See*—
Cable joint. Universal joint.
Joint composition, Preparing expansion-. A. C. Fischer. 1,680,144; Aug. 7.
Joint strip. H. G. Jorgensen. Re17,061–2; Aug. 7.
Joint with rubber inserts, Universal. C. R. Short. 1,679,992; Aug. 7.
Key. F. E. Best. 1,679,558; Aug. 7.
Kiln and kiln drying, Dry. J. F. Cobb. 1,680,013; Aug. 7.
Knife. H. Arnold. 1,680,001; Aug. 7.
Knife for slicing machines. H. Stukart. 1,679,508; Aug. 7.
Knob. F. J. Peterson. 1,680,112; Aug. 7.
Knockdown reel. W. M. Hind. 1,679,573; Aug. 7.
Lamp. A. Von Frankenberg. Des. 75,989; Aug. 7.
Lamp and smoker's stand, Combination. C. E. Beardsley and A. T. Smith. 1,680,002; Aug. 7.
Lamp, Antiglare motor-vehicle. J. F. Farmer. 1,680,211; Aug. 7.
Lamp, Examination. C. T. Brady. 1,680,126; Aug. 7.
Lamp-focusing mechanism. S. W. Hyatt. 1,679,574; Aug. 7.
Lamp-hanger structure. A. J. Thompson. 1,679,953; Aug. 7.
Lamp, Motor-vehicle. E. Zallocco. 1,679,703; Aug. 7.
Lamp, Projector. T. Hall. 1,679,718; Aug. 7.
Latch for refrigerator doors and the like. E. C. Osbeck. 1,679,873; Aug. 7.
Lavatory, Portable. H. L. Smith. 1,680,121; Aug. 7.
Level indicator, Liquid-. L. J. Van Duzer. 1,679,451; Aug. 7.
Lifting and equalizing mechanism for road graders, Bottom. F. E. Arndt. 1,679,394; Aug. 7.
Lifting jack. A. R. Marty. 1,680,228; Aug. 7.
Light: *See*—
Road light.
Light-bulb guard member. J. B. Rockhill. Des. 75,985; Aug. 7.
Light for shaving and the like. O. Wiederhold. 1,680,076; Aug. 7.
Lighting fixture. A. B. Allworth. 1,680,078; Aug. 7.

Lighting fixture. L. C. Doane. 1,680,093–4; Aug. 7.
Lighting fixture. M. Luckiesh. 1,680,225; Aug. 7.
Lighting fixture. G. R. Winkel. Des. 75,993; Aug. 7.
Lighting fixture. J. Zweig. Des. 75,995; Aug. 7.
Lighting-fixture wall bracket. W. Von Nessen. Des. 75,991; Aug. 7.
Lighting-fixture wall bracket or article of analogous nature. J. Di Gaudio. Des. 75,958; Aug. 7.
Lining cardboard boxes. W. A. Coyte. 1,679,407; Aug. 7.
Link, Cuff. C. I. Matson. 1,680,158; Aug. 7.
Link, Quick-change. R. Felger. 1,679,416; Aug. 7.
Liquid-fuel burner. A. Lang. 1,679,830; Aug. 7.
Loading, Car. B. R. Moore. 1,680,165; Aug. 7.
Loading device for conveying systems. E. F. De Potter. 1,679,411; Aug. 7.
Loading machine. W. F. Shelley. 1,680,179; Aug. 7.
Loaf-making machine, Uniform-. W. H. Keenan. 1,679,667; Aug. 7.
Locating defective insulators in electric power lines, Device for. T. D. Berry. 1,679,397; Aug. 7.
Lock: *See*—
Chain lock. Nut lock.
Detachable lock. Tire lock.
Lock combinator. F. E. Best. 1,679,760; Aug. 7.
Lock-filling machine. F. E. Best. 1,679,759; Aug. 7.
Locking device for galleys. F. J. Nugent. 1,679,778; Aug. 7.
Locomotive steam purifier. C. G. Hawley. Re17,058; Aug. 7.
Locomotive, Turbine. F. Lösel. 1,680,025; Aug. 7.
Loom. A. T. Thompson. 1,679,638; Aug. 7.
Loom transferrers, Weft detector in. K. J. Unwin. 1,679,640; Aug. 7.
Loom, Weft-replenishing. B. F. McGuiness. 1,679,618; Aug. 7.
Loom, Weft-replenishing pick-and-pick. W. H. Wakefield. 1,679,641; Aug. 7.
Looms, Box motion for. W. E. Lundgren. 1,679,616; Aug. 7.
Looms, Let-off and tension mechanism for narrow-ware. C. A. Steere. 1,679,634; Aug. 7.
Looms, Picking motion for. C. L. May. 1,679,617; Aug. 7.
Looms, Weft-replenishing mechanism for. S. A. Nelson. 1,679,622; Aug. 7.
Looper, Circular. M. Köhler. 1,679,428; Aug. 7.
Lubricants, Method and apparatus for ejecting. W. D. Bell. 1,679,849; Aug. 7.
Lubricating apparatus. H. J. Murphy. 1,679,731–3; Aug. 7.
Lubricating apparatus. H. J. Murphy. 1,679,735–8; Aug. 7.
Lubricating apparatus. O. Zerk. 1,679,512; Aug. 7.
Lubricating apparatus. O. Zerk. 1,679,887; Aug. 7.
Lubricating apparatus O. U. Zerk. 1,679,888; Aug. 7.
Lubricating system. E. F. Pierce. 1,679,493; Aug. 7.
Lubricating system. E. F. Pierce. 1,680,170; Aug. 7.
Lubricating system and apparatus. H. J. Murphy. 1,679,734; Aug. 7.
Lubricating system, Journal-. C. J. Struve. 1,679,590; Aug. 7.
Machine for extruding tubular articles. C. T. Dickey. 1,679,350; Aug. 7.
Machine for folding the edges of textile and similar articles. E. B. Roby. 1,679,375; Aug. 7.
Machine for making sheet-metal pipe elbows. F. Brune. 1,679,893; Aug. 7.
Machine for manufacturing book covers and the like. A. Olgay. 1,679,871; Aug. 7.
Machine for packing cigarettes and like articles. E. Koerner. 1,680,024; Aug. 7.
Machine for stirring and beating dough and like materials. F. Aeschbach. 1,679,342; Aug. 7.
Machinery, Paper-folding. J. Mentges. 1,679,985; Aug. 7.
Magneto, Blast. A. U. Davis. 1,680,261; Aug. 7.
Manifold, Turbine-nozzle. J. L. Ray. 1,679,496; Aug. 7.
Manifolding machine, Double-platen. L. E. Lentz. 1,679,835; Aug. 7.
Manifolding machines, Carbon guard for. A. Jensen. 1,679,827; Aug. 7.
Mantel, Cement. R. T. Woodard. Re17,060; Aug. 7.
Map, Road. A. Biancafort. 1,680,200; Aug. 7.
Mat for vehicles, Floor. E. E. Richardson. 1,679,498; Aug. 7.
Measuring device. K. D. Bell and E. Meinzinger. 1,679,927; Aug. 7.
Measuring device, Liquid-. C. R. Hardy. 1,680,103; Aug. 7.
Measuring instrument. C. G. Hershey. 1,679,524; Aug. 7.
Measuring instrument, Stereoscopic. R. Hugershoff. 1,679,661; Aug. 7.
Measuring machine, Fabric-. H. T. Goss. 1,679,899; Aug. 7.
Measuring stick, Last-. L. E. Topham. 1,679,387; Aug. 7.
Measuring system. H. M. Bascom. 1,679,306; Aug. 7.
Mechanical device. H. Rabinowitz. 1,679,627; Aug. 7.
Mechanical press. E. A. Terkelsen. 1,679,637; Aug. 7.
Metal manufacture and products, Spun-. R. G. Nelson. 1,680,061; Aug. 7.
Metal mold. A. R. Norton and M. Guyot. 1,679,869; Aug. 7.
Metal product, Composite. F. F. Fowle. 1,679,518; Aug. 7.
Metal step. H. T. Anderson. 1,680,032; Aug. 7.
Metal-surfaced material. R. E. Drake. 1,680,096; Aug. 7.
Metals, Addition material for ferrous. P. D. Merica and T. H. Wickenden. 1,680,058; Aug. 7.
Metals, Addition material for ferrous. P. D. Merica and T. H. Wickenden. 1,680,161; Aug. 7.
Metals from their sulphides, Producing volatile. H. G. Flodin and E. G. T. Gustafsson. 1,680,098; Aug. 7.
Meter: *See*—
Electricity meter.
Mill: *See*—
Tube mill.
Mills, Repeater for rolling. L. Johnson. 1,680,105; Aug. 7.
Minerals, Recovery for precious. T. H. France. 1,679,857; Aug. 7.
Mining machine. F. Cartlidge. 1,680,246; Aug. 7.
Mirror and illuminating device, Combination. W. J. Newton. 1,680,062; Aug. 7.
Mixing, inspecting, and crating apparatus, Bottle. A. W. Brown. 1,679,402; Aug. 7.
Mold: *See*—
Metal mold.
Mold. L. J. Schroeder. 1,679,788; Aug. 7.
Mold. L. S. Washburn. 1,679,554; Aug. 7.
Mold and the like, Pig-iron. F. Quinn. 1,679,876; Aug. 7.
Mold for casting metals. M. Guyot. 1,679,860–1; Aug. 7.
Mold for casting metals. G. Kohl. 1,679,864; Aug. 7.
Molding machine, Block-. A. F. Lewis. 1,679,483; Aug. 7.
Monooxy-ω-aminoacetophenone derivatives. H. Legerlotz. 1,680,055; Aug. 7.
Mop wringer. S. C. Lawlor. 1,679,980; Aug. 7.
Motor: *See*—
Drilling motor. Electric motor.
Motor. C. H. Allen. 1,680,250; Aug. 7.
Motormeter mounting and lock. W. McArthur, jr. 1,679,908; Aug. 7.
Motors and high-speed shafts driven thereby, Mode of supporting and journaling. R. A. Baldwin. 1,679,890; Aug. 7.
Mounting for baking pans. A. L. Langel. 1,680,220; Aug. 7.
Multiplier, Dobby. V. H. Jennings and H. H. Watson. 1,679,663; Aug. 7.
Musical instrument, Stringed. H. M. Lentz. 1,679,834; Aug. 7.
Musical instruments, Attachment for mouthpieces of. R. J. McVicker. 1,680,159; Aug. 7.
Naphthalene, Purification of. G. Schroeter. 1,680,070; Aug. 7.
Needle mechanism, Spring-beard-. W. S. Parker. 1,679,624; Aug. 7.
Negatives for photoreproduction work, Preparing large assembled. A. J. Newton. 1,679,942; Aug. 7.
Neopyridium, Obtaining. I. Ostromislensky. 1,680,110; Aug. 7.
Nitroguanidine and making same, Finely-divided. A. P. Tanberg and R. L. Kramer. 1,679,752; Aug. 7.
Nozzle construction for steam turbines. G. Menz. 1,679,619; Aug. 7.
Nozzles, Making. J. H. Taylor. 1,680,073; Aug. 7.
Nut, Knobbed. F. D. Wenn and B. M. Stannard. 1,680,270; Aug. 7.
Nut lock. G. V. Kenton. 1,679,474; Aug. 7.
Nut, Rim. J. Volckhausen. 1,679,844; Aug. 7.
Oil burner. V. Aiello. 1,680,193; Aug. 7.
Oil burner. W. L. Six. 1,679,633; Aug. 7.
Oil-burning system. F. Higgins and A. E. Nordstrom. 1,679,900; Aug. 7.
Oils, fats, and waxes, Stabilization of. J. Y. Huber, jr. 1,680,047; Aug. 7.
Orchard heater. B. O. Jessen. 1,679,359; Aug. 7.
Organ music, Automatic control of. J. H. Hammond, jr. 1,680,041; Aug. 7.
Organ, Pipe. L. Buswell and J. H. Hammond, jr. 1,680,036; Aug. 7.
Organ, Pipe. J. H. Hammond, jr. 1,680,039; Aug. 7.
Oven, Baking. H. Roser. 1,679,989; Aug. 7.
Oyster opener. A. Schermer. 1,679,787; Aug. 7.
Package, Oil. F. D. Gatchell. 1,679,968; Aug. 7.
Packing case, Extension. R. W. Stanley. 1,680,071; Aug. 7.
Packing for hypodermic syringes, Adjustable. G. N. Heinz. Re17,059; Aug. 7.
Pad: *See*—
Desk pad.
Panel, Door-control garnish. J. J. Punke. Des. 75,982; Aug. 7.
Panel, Illuminated instrument. W. H. Schulze. 1,679,587; Aug. 7.
Panel, Instrument. A. Champion. 1,680,012; Aug. 7.
Paper fabric, Reenforced-. C. H. Howard. 1,679,721; Aug. 7.
Paper-handling machine. R. Hitchcock. 1,680,044; Aug. 7.
Paper-making machine. J. K. Darby. 1,679,854; Aug. 7.
Paper-making machinery. R. E. Heisel. 1,679,523; Aug. 7.
Parachute. H. O. Elane. 1,679,714; Aug. 7.
Pencil. N. P. Sjobring. 1,679,382; Aug. 7.
Petroleum, Extracting. J. L. Rich. 1,679,683; Aug. 7.
Phenyl-azo-alpha-alpha-diamino-pyridine dihydrochlorides and obtaining the same. I. Ostromislensky. 1,680,111; Aug. 7.
Pick and guard, Ice. S. M. Kass. 1,679,666; Aug. 7.
Picture strip, Motion-. H. C. Bullis. 1,679,708; Aug. 7.
Pillow, Sanitary. N. Schenk. 1,680,009; Aug. 7.
Pipe-bending apparatus. G. C. Webber. 1,679,954; Aug. 7.
Pipe coupling. J. Benzion. 1,680,080; Aug. 7.
Pipe cutter. L. H. Goeltz. 1,679,470; Aug. 7.

Pipes, Apparatus for straightening the ends of bent. R. H. Bobling. 1,680,008; Aug. 7.
Piston, Counterthrust-pressure. C. G. Edwards. 1,679,964; Aug. 7.
Pitman. W. L. Brown. 1,679,707; Aug. 7.
Plastic material. W. B. Wescott. 1,680,234; Aug. 7.
Plate or similar article. M. A. Hansc. Des. 75,974; Aug. 7.
Platform for unloading stock, Movable. F. Rieder 1,679,945; Aug. 7.
Plumbing fixture. P. J. Cantrell. 1,679,561; Aug. 7.
Pocketbook. W. H. Sanford. 1,679,500; Aug. 7.
Pocketbook, Safety. W. J. Graves. 1,679,606; Aug. 7.
Point construction for iron network, Junction. W. Bauersfeld and O. Schmidt. 1,679,758; Aug. 7.
Pole. C. F. Pine. 1,680,172; Aug. 7.
Pole, Collapsible. N. N. Brown. 1,679,513; Aug. 7.
Poles or rods, End for drapery. G. Madvig. Des. 75,977; Aug. 7.
Poles, Reenforcement for. G. B. Spring. 1,679,747; Aug. 7.
Popper, Corn. H. A. Longino. 1,679,431; Aug. 7.
Power engine, Combustion-. F. Lang. 1,679,832; Aug. 7.
Power plant. M. Plochmann. 1,679,494; Aug. 7.
Power plant, especially for self propelled vehicles. J. Robson. 1,679,544; Aug. 7.
Power shut-off, Automatic vibrating. A. H. Brandon. 1,679,929; Aug. 7.
Powder box. C. S. Humphrey. 1,680,150; Aug. 7.
Powder, Drying bleaching. J. T. Conroy, A. Lamble, and J. J. Latham. 1,680,087; Aug. 7.
Preservation of food products. D. Tenney. 1,679,386; Aug. 7.
Press: *See*—
Glass press. Mechanical press.
Press pot and making same. F. S. Carver. 1,679,464; Aug. 7.
Pressing machine plaiting attachment. S. R. Christ and P. N. Braun. 1,679,813; Aug. 7.
Pressing machines, Actuating mechanism for. E. Davis. 1,679,815; Aug. 7.
Printing and registering mechanism. A. H. Pitney and J. W. Ogden. 1,680,113; Aug. 7.
Printing mechanism for parcel-post postage meter machines. A. H. Pitney. 1,680,114; Aug. 7.
Printing plate. W. S. Eaton. 1,680,097; Aug. 7.
Printing press and folder. J. L. and P. F. Cox. 1,679,650; Aug. 7.
Printing-press unit. W. H. Granger. 1,680,018; Aug. 7.
Propeller-shaft strut. C. A. Troth. 1,679,388; Aug. 7.
Protector, Infant-napkin. F. M. Shafer. 1,680,178; Aug. 7.
Protector, Stocking. S. Dunbar. 1,680,137; Aug. 7.
Pulley. W. P. Smith. 1,679,691; Aug. 7.
Pulp for paper production Manufacturing. D. R. Nanji. 1,679,441; Aug. 7.
Pulping wood. F. G. Rawling. 1,679,682; Aug. 7.
Pulverizing machine, Coal-. P. V. Vernon and R. Jackson. 1,679,997; Aug. 7.
Pump. I. Marks. 1,680,157; Aug. 7.
Pump, Centrifugal. R. N. Ehrhart. 1,680,208; Aug. 7.
Pump, Centrifugal. J. K. McIntyre. 1,680,057; Aug. 7.
Pump, Diaphragm. W. R. Crofton. 1,680,089; Aug. 7.
Pump, engine, and the like. A. L. Williams. 1,679,592; Aug. 7.
Pump for oil wells. D. R. Triplehorn. 1,679,552; Aug. 7.
Pump for wells. J. Penrod and R. D. Thompson. 1,679,625; Aug. 7.
Pump, Tire. W. M. Stewart. 1,679,505; Aug. 7.
Pumping apparatus, Gasoline-. E. E. Eickmeyer, and H. L. Jones. Des. 75,965; Aug. 7.
Pumping system, Gas-. E. J. Garnier. 1,679,417; Aug. 7.
Pumps, Attachment for. G. A. Humason and W. L. Childs. 1,679,608; Aug. 7.
Punch for cutting notches in slim reels. A. C. Hayden. 1,679,572; Aug. 7.
Punching machine for statistical cards. M. Lebels. 1,680,054; Aug. 7.
Purifier for locomotive boilers, Steam. C. G. Hawley. 1,679,358; Aug. 7.
Pusher, Stock. F. L. Cone. 1,679,515; Aug. 7.
Putting green, Portable in and out door. R. H. Reirden. 1,679,374; Aug. 7.
Pyridium, Obtaining. I. Ostromislensky. 1,680,109; Aug. 7.
Pyroelectric separation of finely-divided materials. G. A. Overstrom. 1,679,739; Aug. 7.
Radial drill, Electrically-driven. G. Feather. 1,680,214; Aug. 7.
Radiator. A. A. Landon. 1,680,219; Aug. 7.
Radiator cap, Automobile. I. Huebner. Des. 75,976; Aug. 7.
Radiator core. J. M. Fedders. 1,679,517; Aug. 7.
Radiators, Steam heating attachment for. C. A. Head. 1,680,104; Aug. 7.
Radio alarm signal system. R. M. Keator. 1,680,217; Aug. 7.
Radiocircuits. R. Bell. 1,679,347; Aug. 7.
Radio log and program device. T. W. Montrose. 1,680,164; Aug. 7.
Radio receiving apparatus. A. M. Harding. 1,680,042; Aug. 7.
Radio receiving apparatus. A. B. Kupsche. 1,679,533; Aug. 7.
Radio receiving circuit. T. H. Berkland. 1,679,597; Aug. 7.
Railway-tie plate. J. Corl. 1,680,131; Aug. 7.
Range. L. T. Wilcox. 1,679,555; Aug. 7.
Range converter. H. C. Ford. 1,679,936; Aug. 7.
Razor, Safety. J. L. King. 1,679,670; Aug. 7.
Razor, Universal safety. E. G. Tornkvist. 1,679,551; Aug. 7.
Receiver. C. A. Piante. 1,679,986; Aug. 7.
Receptacle and buffer, Combined. F. J. Clemenger. 1,679,603; Aug. 7.
Reclaiming metals, Apparatus for. T. D. Stay and C. O. Tessier. 1,679,885; Aug. 7.
Recording apparatus for oarsmen. H. E. Seagraves. 1,679,631; Aug. 7.
Reel: *See*—
Knockdown reel.
Reeling paper and the like, Mechanism for. A. Aldrich. 1,679,343; Aug. 7.
Refrigerating system. F. E. Lynn. 1,679,729; Aug. 7.
Refrigeration. C. G. Munters. 1,679,439–40; Aug. 7.
Refrigerator. H. A. W. Petersen. 1,679,875; Aug. 7.
Register: *See*—
Automatic register.
Regulator: *See*—
Fluid-pressure regulator.
Rheostat. L. P. Neal. 1,679,539; Aug. 7.
Relay. D. C. Bettison. 1,679,761; Aug. 7.
Resetting mechanism. E. Kassner. 1,679,905; Aug. 7.
Resistance device, Controllable. H. J. Wiegand and H. N. Packard. 1,680,189; Aug. 7.
Retrograde movement, Device for preventing. J. L. Gonard. 1,680,148; Aug. 7.
Road light. L. Edelmann. 1,680,139; Aug. 7.
Rod: *See*—
Hanger rod.
Rod connection, Pull-. P. E. Seckler. 1,679,686; Aug. 7.
Roll, Cutting. C. W. Dohm. 1,679,351; Aug. 7.
Roof, Car. T. H. Williams. 1,679,460; Aug. 7.
Router, Adjustable portable. O. A. Popham. 1,679,446; Aug. 7.
Rubber factories, Apparatus for use in. O. D. Hollenbeck. 1,680,171; Aug. 7.
Rug and strand therefor. P. C. Waite. 1,679,553; Aug. 7.
Running board foot pad and luggage carrier, Combination. N. Nelsen. 1,679,916; Aug. 7.
Safety appliance for hydraulic accumulators. M. Mack. 1,679,433; Aug. 7.
Safety device for brake-lever spreaders. S. J. Strid. 1,679,589; Aug. 7.
Safety device for railroad-car brake beams. V. H. Harbert. 1,679,420; Aug. 7.
Sallumometer, test, and gauge cock. J. D. Maxwell. 1,679,485; Aug. 7.
Saw and square, Combination. W. V. Dorsaneo. 1,679,933; Aug. 7.
Saw, Gang. E. P. Armstrong. 1,679,595; Aug. 7.
Scouring device. S. Applin. 1,679,392; Aug. 7.
Scraper. F. E. Arndt. 1,679,393; Aug. 7.
Scraper. N. Madson. 1,680,156; Aug. 7.
Screen: *See*—
Grizzly screen.
Screen construction, Rolling-window-. H. Dixson. 1,680,092; Aug. 7.
Screening device. F. J. Becker. 1,680,243; Aug. 7.
Seal. J. L. Dinsmoor. 1,679,467; Aug. 7.
Seal, Car. A. J. Eason. 1,679,963; Aug. 7.
Sealing machine, Package-. C. W. Bolgiano. 1,680,009; Aug. 7.
Sealing method and mechanism for containers. J. Van Buren. 1,679,591; Aug. 7.
Seating machine, Barrel-head-. J. Miele. 1,679,676; Aug. 7.
Separation of finely-divided materials, Electrical. G. A. Overstrom. 1,679,740; Aug. 7.
Separator: *See*—
Centrifugal separator.
Sewing machine. N. B. Hanson. 1,679,357; Aug. 7.
Sewing machine. L. E. Topham. 1,679,753; Aug. 7.
Shaft connection, Flexible. J. Zubaty. 1,680,000; Aug. 7.
Shaper. F. W. Parker. 1,679,541; Aug. 7.
Sharpening machine, Saw-. B. Rudolff. 1,679,377; Aug. 7.
Sharpening mechanism, Drill-. F. M. Lee. 1,680,248–9; Aug. 7.
Shearing, Apparatus and method of. L. Iversen. 1,680,048; Aug. 7.
Sheet-opening mechanism. F. C. Biggert, jr. 1,680,082; Aug. 7.
Sheet piling. J. R. Wemlinger. 1,679,800; Aug. 7.
Sheets and plates, Manufacture of metallic-coated. J. McFetridge. 1,679,435; Aug. 7.
Shield, Glare. C. G. Barron. 1,679,704; Aug. 7.
Shingles, Manufacture of. A. S. Speer. 1,679,883; Aug. 7.
Ship propulsion system. W. L. R. Emmet. 1,680,209; Aug. 7.
Shock absorber. C. W. Sherman and J. M. Hall. 1,679,921; Aug. 7.
Shock absorber. E. R. Snook. 1,679,842; Aug. 7.
Shock absorber working with progressive compression. H. J. Weydert. 1,679,698; Aug. 7.
Shoe. E. Anderson. 1,679,889; Aug. 7.
Shoe. W. J. Brigg. 1,679,400; Aug. 7.
Shuttle, Loom. J. C. Brooks. 1,679,647; Aug. 7.
Side frame, Truck. D. S. Barrows. 1,679,925; Aug. 7.
Sign. H. F. Anderson. 1,679,462; Aug. 7.

Sign, Changeable. C. A. Giroux. 1,679,520; Aug. 7.
Sign, Display. P. J. Scheib. Des. 75,987; Aug. 7.
Signal: *See*—
Auto signal. Automobile signal.
Signal for toy railways, Danger. J. E. Cuff. Des. 75,957; Aug. 7.
Signal for toy railways, Highway. J. E. Cuff. Des. 75,956; Aug. 7.
Signal-post structure. H. Olsen. 1,679,623; Aug. 7.
Signaling device for automobiles. W. J. Hurt. 1,679,810; Aug. 7.
Signaling system, Radio. L. de Forest and C. V. Logwood. 1,680,207; Aug. 7.
Skiving machine. J. I. Haase. 1,679,569; Aug. 7.
Sled. J. Juliano. 1,679,975; Aug. 7.
Slide construction. G. E. Prentice. 1,679,783; Aug. 7.
Slide holder. W. T. Birdsall. 1,679,928; Aug. 7.
Slider for fasteners and making the same. G. E. Prentice. 1,679,784; Aug. 7.
Slot machine. F. L. Williams and G. F. Kraft. 1,679,458; Aug. 7.
Smoke consumer. G. and H. Michael. 1,679,909; Aug. 7.
Smoke protector. W. D. Mitchell. 1,679,839; Aug. 7.
Smoker's stand. P. Silberhartz. 1,679,791; Aug. 7.
Smoking stand. A. Von Frankenberg. Des. 75,990; Aug. 7.
Snowplow. A. E. Delaney. 1,679,409; Aug. 7.
Sole, Tap. B. Gilowitz. 1,680,147; Aug. 7.
Soot blower, Automatically-operated. F. Bowers. 1,680,125; Aug. 7.
Sound box and radiophone, Adjustable combined. C. J. Del Marmol. 1,679,932; Aug. 7.
Sounding board for pianos. W. H. M. Siegel. 1,680,180; Aug. 7.
Spark plug. H. Rabezzana. 1,679,987–8; Aug. 7.
Spectacle with lighting device. B. Lerden. 1,679,482; Aug. 7.
Splitter, Bale. P. W. Lehman. 1,680,222; Aug. 7.
Spool, Ribbon. J. S. Duncan and H. E. Hubbard. 1,679,713; Aug. 7.
Spoon or similar article. H. Hillbom. Des. 75,975; Aug. 7.
Spotlight. J. H. Kliegl. 1,679,361; Aug. 7.
Spring. M. P. Delory. 1,679,410; Aug. 7.
Sprinkler systems, Retarding chamber for automatic. J. E. Evans and F. H. Griffith. 1,680,142; Aug. 7.
Sprinklers, Strut for automatic. W. Grimshaw. 1,679,568; Aug. 7.
Sputum cup, Pocket. J. Kauffman. 1,680,151; Aug. 7.
Stabilizer for flying machines. E. F. Santo. 1,679,379; Aug. 7.
Stacking machine. W. K. Liggett. 1,680,223; Aug. 7.
Stair structure. A. J. Hall. 1,679,570; Aug. 7.
Stalk breaker. W. H. Keune. 1,680,218; Aug. 7.
Stand: *See*—
Display stand. Smoker's stand.
Stand for heating electric sadirons. R. E. Allen. 1,679,756; Aug. 7.
Stapling machine. B. Jahn. 1,679,662; Aug. 7.
Starter mechanism. R. Chilton. 1,679,602; Aug. 7.
Starting apparatus, Engine-. W. A. Chryst. 1,679,405; Aug. 7.
Starting device for starting combustion engines. G. Pielstick. 1,679,492; Aug. 7.
Stay bolt, Flexible. W. Pollock. 1,680,229; Aug. 7.
Steam boiler. E. S. and C. Z. Alexander. 1,679,344; Aug. 7.
Steam gauge. W. H. Kuhn. 1,679,476; Aug. 7.
Steam generator. L. N. Moss and J. S. Weston. 1,680,166; Aug. 7.
Steering control for boats. G. C. Bailey. 1,679,395; Aug. 7.
Stenciling, Method and apparatus for. D. M. Goetschius. 1,679,770; Aug. 7.
Stock and dies with oiling device. R. Ferro. 1,679,820; Aug. 7.
Stoker control, Automatic. L. Garrison. 1,679,418; Aug. 7.
Stool. G. Van Daam. 1,679,696; Aug. 7.
Stool, Cushion. H. H. Metzgar. Des. 75,979; Aug. 7.
Stopping railroad vehicles independently of the driver, Device for. P. Friedel. 1,680,215; Aug. 7.
Storage and handling system, Material. R. H. Beaumont. 1,680,242; Aug. 7.
Storage battery. C. J. Dunzweiler. 1,680,038; Aug. 7.
Stove. A. A. Roesch. Des. 75,986; Aug. 7.
Stove. L. T. Wilcox. 1,679,556. Aug. 7.
Stovepipe casings, Method of and apparatus for making. W. E. Rupley. 1,679,499; Aug. 7.
Strainer, Oil-tube. J. E. Gillespie. 1,680,146; Aug. 7.
Striping apparatus for circular-hosiery machines. F. Neveux. 1,679,680; Aug. 7.
Suction roll. E. Berry. 1,679,598; Aug. 7.
Sulphur, Manufacture of pure. W. H. Bentley. 1,680,079; Aug. 7.
Superheater, Flue. P. Thomsen. 1,680,232; Aug. 7.
Support. W. R. Barclay. 1,679,346; Aug. 7.
Support construction for electrical appliances. D. N. Thompson. 1,679,799; Aug. 7.
Support, Foldable. R. V. Proctor. 1,680,065; Aug. 7.
Support for built-in bathtubs, Adjustable. J. E. McHugh and A. G. Fields. 1,679,838; Aug. 7.
Surgical resection, Method and apparatus for. M. Stern. 1,679,950; Aug. 7.
Swage shaper. J. F. Pribnow. 1,680,256; Aug. 7.
Switch: *See*—
Electric switch. Time switch.
Fused switch.
Switch. M. Guett. 1,680,100; Aug. 7.
Switch construction. C. E. Warner. 1,679,846; Aug. 7.
Switch mechanism. T. E. Griffith. 1,679,355; Aug. 7.
Switch plug. H. Hubbell. 1,679,722; Aug. 7.
Synchronizing system. A. F. Connery. 1,679,852; Aug. 7.
Table: *See*—
Folding table.
Tag, Checking. A. E. and A. G. Wright. 1,679,699; Aug. 7.
Telephone system, Automatic. J. E. Gardner. 1,679,567; Aug. 7.
Telephone system, Automatic. G. Grabe. 1,679,522; Aug. 7.
Testing machine. R. P. Stevenson. 1,679,751; Aug. 7.
Thermostatic control for electric switches. J. R. Cook. 1,679,649; Aug. 7.
Thread, Short-stretch covered elastic. R. C. Hall. 1,679,822; Aug. 7.
Threads, films, and the like from cellulose derivatives, Manufacture of. E. Berl. 1,679,850; Aug. 7.
Tile and wall construction, Building. T. Rota. 1,679,684; Aug. 7.
Time switch, Rotary. J. W. Peyton, and J. E. Lipschutz. 1,679,781; Aug. 7.
Tire-building apparatus. T. Midgley. 1,680,162; Aug. 7.
Tire carrier. O. E. Hunt. 1,679,972; Aug. 7.
Tire carrier, Spare-. A. L. Hooker. 1,679,422; Aug. 7.
Tire lock, Spare-. J. Junkunc. 1,679,665; Aug. 7.
Tire, Multiple-tube. B. F. Pagenhart. 1,679,444; Aug. 7.
Toilet case. E. C. Austin. 1,680,196; Aug. 7.
Tongs. J. J. Cline. 1,680,205. Aug. 7.
Tool and gauge, Valve-reseating. R. H. Eaves. 1,679,605; Aug. 7.
Tool, Automatic machine. A. M. Johnson. 1,679,529; Aug. 7.
Tool, Gang machine. A. M. Johnson. 1,679,531; Aug. 7.
Tool, Pneumatic. J. E. Otis, jr. 1,679,540; Aug. 7.
Tool, Portable. L. F. Meunier. 1,679,776; Aug. 7.
Tools, Auxiliary slide support for machine. J. A. Craig. 1,680,088; Aug. 7.
Tools, Reversing and braking mechanism for machine. W. T. Emmes. 1,680,141; Aug. 7.
Tools, Taper-turning attachment for machine. J. J. N. Van Hamersveld. 1,680,074; Aug. 7.
Toothbrush. G. F. Quinn. 1,679,785; Aug. 7.
Toothbrush, Duplex. G. M. Ruff. 1,679,946; Aug. 7.
Toothpick. J. H. Crowell. 1,679,651; Aug. 7.
Top and cover, Auto. J. K. Wright. 1,679,886. Aug. 7.
Top brace, Vehicle. C. L. Shobe. 1,679,688; Aug. 7.
Torches, Tip for cutting. G. C. Quelch. 1,679,586; Aug. 7.
Tourniquet, Pneumatic. A. L. Konwiser and D. Loeser. 1,679,978; Aug. 7.
Toy bank. D. Hall. 1,679,658; Aug. 7.
Toy catapult. F. E. Allender. 1,680,077; Aug. 7.
Toy, Figure. C. L. Yale and E. P. Vance. Des. 75,994; Aug. 7.
Toy railroad. J. A. Moffitt. 1,679,911; Aug. 7.
Toy vehicle. R. B. Fageol. 1,679,819; Aug. 7.
Track apparatus, Racing-. H. B. Staver. 1,680,072; Aug. 7.
Tractor. G. von Jalsoviczky. 1,679,754; Aug. 7.
Traffic-controlling apparatus, Railway-. C. S. Snavely. 1,679,795; Aug. 7.
Train-control system, Automatic. B. F. Wooding. 1,679,390; Aug. 7.
Transfer apparatus, Strip-. H. G. McIlvried. 1,679,436; Aug. 7.
Transmission mechanism. D. Jewell. 1,679,974; Aug. 7.
Transmission mechanism, Engine. S. Masel. 1,679,580; Aug. 7.
Trap for gas wells, Water. E. L. Poston. 1,680,255 Aug. 7.
Trash cleaner. C. H. White. 1,680,031; Aug. 7.
Treating apparatus, Fluid-. W. A. Pownall. 1,679,373; Aug. 7.
Treating solid-tire material, Method of and apparatus for. R. S. Burdette. 1,679,560; Aug. 7.
Treating soya beans. O. Johnson. 1,680 264; Aug. 7.
Treating water. A. R. Moberg. 1,679,777; Aug. 7.
Trimmer: *See*—
Hedge trimmer.
Trimming fruit, Method and apparatus for. A. L. Duncan. 1,679,817; Aug. 7.
Trimming machine. H. Duckworth. 1,679,352; Aug. 7.
Truck construction, Car-. S. P. Bush. 1,679,811; Aug. 7.
Truck for railroad vehicles. A. W. Bruce. 1,679,601; Aug. 7.
Truck, Hand. B. F. Walker. 1,679,885; Aug. 7.
Tube: *See*—
Discharge tube. X-ray tube.
Tube and manufacturing the same, Luminous. R. R. Machlett. 1,680,272; Aug. 7.
Tube cleaner, Boiler-. F. Bowers. 1,680,202; Aug. 7.
Tube finishing and capping machine. J. H. Konigsberg. 1,679,865; Aug. 7.
Tube mill. C. H. Roth. 1,679,545; Aug. 7.
Tuning device for radio receiving sets. P. W. Willans and A. Stanley. 1,679,459; Aug. 7.
Turbine construction. L. H. Morrill. 1,679,913; Aug. 7.
Turner, Log. R. M. Peaver. 1,679,445; Aug. 7.
Turnstile apparatus, Coin-controlled and change-making. D. L. Chandler. 1,679,930; Aug. 7.
Typewriting machine. W. A. Dobson. 1,680,135; Aug. 7.
Typewriting machine. W. F. Helmond. 1,679,901; Aug. 7.

Typewriting machine. A. G. F. Kurowski. 1,679,726–7; Aug. 7.
Typewriting machine. A. G. F. Kurowski. 1,680,153; Aug. 7.
Typewriting machine. J. Lindburg. 1,679,867; Aug. 7.
Typewriting machine. H. L. Pitman. 1,679,741; Aug. 7.
Typewriting machine. E. G. Rowley. 1,679,744; Aug. 7.
Typewriting machine. E. G. Rowley. 1,679,878; Aug. 7.
Typewriting machine. E. G. Rowley. 1,680,230; Aug. 7.
Typewriting machine. B. C. Stickney. 1,679,951–2; Aug. 7.
Typewriting machine. J. Waldheim. 1,679,845; Aug. 7.
Typewriting machine. J. Waldheim. 1,680,122–4; Aug. 7.
Umbrella, Self-closing. E. Cullmann. 1,680,090; Aug. 7.
Undergarments of inelastic material, Making. M. D. Neilson. 1,680,267; Aug. 7.
Universal joint. D. F. Domizi. 1,680,095; Aug. 7.
Universal joint. M. W. Wysong. 1,679,700; Aug. 7.
Unloading device for conveying systems. E. F. De Potter. 1,679,412; Aug. 7.
Valve. H. E. La Bour. 1,679,907; Aug. 7.
Valve. C. W. Larner. 1,679,774; Aug. 7.
Valve. S. J. Nordstrom. 1,679,370; Aug. 7.
Valve, Air-brake bleeder. C. E. Marshall. 1,679,837; Aug. 7.
Valve and flanged steel. W. F. Oberhuber. 1,679,779; Aug. 7.
Valve, Brake-cylinder release. T. H. Birch. 1,679,600; Aug. 7.
Valve, Check. I. B. Gilbert. 1,679,898; Aug. 7.
Valve device for use with pumping structures. A. Penn. 1,680,245; Aug. 7.
Valve, Fluid-pressure relief. J. L. Kimball. 1,679,938; Aug. 7.
Valve for internal-combustion engines. W. C. Gray. 1,680,099; Aug. 7.
Valve, Measuring. D. H. Sweet. 1,679,882; Aug. 7.
Valve mechanism. Float-. F. G. Siegel. 1,679,949; Aug. 7.
Valve mechanism for power actuators and the like. Poppet. C. S. Bragg and V. W. Kliesrath. 1,679,762; Aug. 7.
Valve, Relief. G. H. Brunow. 1,679,763; Aug. 7.
Valve-spring lifter and remover. C. E. Hirst. 1,679,970; Aug. 7.
Valve stems, Apparatus for cutting. W. S. Knudsen. 1,679,977; Aug. 7.
Vanity case and pocketbook for animal heads. R. Eisenberg and M. Rajewsky. 1,679,965; Aug. 7.
Vaporizer and auxiliary air-inlet device, Combined fuel. H. S. Knight. 1,680,152; Aug. 7.
Vehicle bodies, Suspension for. B. F. Seymour. 1,679,840; Aug. 7.
Vehicle, Rail. J. Geiger. 1,679,469; Aug. 7.
Vehicle, Three-axled motor. H. Blumer. 1,679,805; Aug. 7.
Vehicle wheel. A. Meldrum. 1,680,160; Aug. 7.
Vehicle wheel. J. H. Wagenhorst. 1,679,454; Aug. 7.
Vehicles, Springing of motor. C. E. Cottin. 1,679,853; Aug. 7.
Vending machine. R. H. Baker. 1,680,238; Aug. 7.
Ventilating device. A. F. Knowles. 1,679,773; Aug. 7.
Ventilating device for tank vessels. J. Mulder and D. C. Endert, Jr. 1,679,678; Aug. 7.
Vessel-handling device. M. Jaeger. 1,679,527; Aug. 7.
Vessels, Apparatus for making sheet-metal. M. A. Rollman. 1,679,629; Aug. 7.
Vulcanizing rubber. L. B. Sebrell. 1,679,548; Aug. 7.
Wagon, Delivery. C. W. Peelle. 1,680,027; Aug. 7.
Wall board. H. C. Sanborn. 1,679,947; Aug. 7.
Wall construction. H. Kupelwieser. 1,679,611; Aug. 7.
Wall, Furnace. D. S. Jacobus. 1,679,725; Aug. 7.
Wash hanger. K. Babecki. 1,679,596; Aug. 7.
Washing apparatus. J. Draper. Re17,063; Aug. 7.
Washing machine. A. Swensen. 1,679,798; Aug. 7.
Watch, Wrist. H. I. Cramer. Des. 75,955; Aug. 7.
Watchcases, Forming. H. Cook. 1,679,466; Aug. 7.
Water-closet, Sanitary. A. H. Kennedy. 1,679,699; Aug. 7.
Water control. J. E. Woods. 1,680,235; Aug. 7.
Water gauge. J. and H. Rhodes. 1,680,174; Aug. 7.
Water heater, Auxiliary. A. F. Gobin. 1,679,768; Aug. 7.
Water-supply mechanism, Multiple-tank. E. H. Lichtenberg. 1,679,614; Aug. 7.
Water system. C. B. Page and W. D. Burton. 1,679,489; Aug. 7.
Water-tube boiler, High-pressure. C. A. W. Brandt. 1,680,128; Aug. 7.
Waving apparatus, Hair-. F. Coune. 1,679,563; Aug. 7.
Weather strip, Metal. A. M. Lane. 1,679,612; Aug. 7.
Weather strip, Windshield. L. Blackmore. 1,680,006; Aug. 7.
Web guiding mechanism. G. F. Wikle. 1,680,190; Aug. 7.
Weighting mechanism. G. L. Zucker. 1,680,192; Aug. 7.
Welding, Core for flash butt-. M. W. Wysong. 1,679,702; Aug. 7.
Welding method and apparatus, Electric. A. J. Townsend. 1,680,233; Aug. 7.
Welding tubular articles, Butt. M. W. Wysong. 1,679,701; Aug. 7.
Wheel; *See*—
Automobile wheel. Vehicle wheel.
Wheel. J. P. Lavigne. 1,680,265; Aug. 7.
Wheel and rim mounting. J. V. Bretaud. 1,679,892; Aug. 7.
Wheel bridging for bad roads. C. F. W. Fiebke. 1,680,143; Aug. 7.
Wheel clamp, Tractor-. J. C. Sell. 1,679,381; Aug. 7.
Winding machine, Wire-. W. S. and O. J. Bisel. 1,679,804; Aug. 7.
Window, Curtain. A. S. Campbell. 1,680,011; Aug. 7.
Window, Inclosed transparent. C. Lorber. 1,679,578; Aug. 7.
Window jack, Adjustable. E. L. Embrey. 1,679,961; Aug. 7.
Window, Store. R. A. Schlegel. 1,679,632; Aug. 7.
Windshield cleaner, Automobile. G. W. Knutson. 1,679,576; Aug. 7.
Windshield heater. L. Hagedorn. 1,680,102; Aug. 7.
Windshield wiper-operating mechanism. G. H. Lober. 1,679,674; Aug. 7.
Wringer; *See*—
Mop wringer.
Writing implement. F. Furedy, C. Schroth, and W. Favini. 1,679,566; Aug. 7.
X ray tube. G. Bucky. 1,679,894; Aug. 7.
Yeast, Preparation of. G. O. W. Heljkenskjöld. 1,680,048; Aug. 7.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 7, 1928.

NOTE.—First number—class, second number—subclass, third number—patent number.

1—	2.3: 1,679,662	24—	205: 1,679,866	49—	17: 1,680,240	76—	5: 1,680,252	103—	265: 1,680,075	123—	188: 1,680,099
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	32: 1,679,346		230.5: 1,679,416		92: 1,679,437		1,680,254		169: 1,679,754	126—	5: 1,679,406
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	78: 1,680,267		97: 1,679,637		1,679,378	77—	28: 1,680,212		131: 1,679,469		45: 1,679,556
	175: R. 17,064		129: 1,679,345		15: 1,679,369		1,680,214		174: 1,679,601		58: 1,680,005
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	337: 1,680,069		27: 1,679,865		4: 1,679,431		44: 1,679,398		54: 1,679,660		284: 1,680,178
7—	8: 1,679,814		46: 1,680,088		6: 1,680,220		1,679,557		57: 1,679,717		305: 1,679,497
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	128: 1,679,531		1,679,670	64—	30: 1,680,000	87—	6: 1,679,728		42: 1,679,655	135—	44: 1,680,090
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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Adson Chemical Co., Inc., New York, N. Y. Inhalant. 245,452; Aug. 14; Serial No. 263,676; published May 22, 1928. Class 6.

Ajax-Grieb Rubber Company, Trenton, N. J., assignor to Ajax Rubber Company, Inc., Racine, Wis. Automobile and bicycle tires. 71,861; renewed Dec. 15, 1928.

Albemarle Paper Manufacturing Company, The, Richmond, Va. Blotting paper. 72,083; renewed Jan. 5, 1929.

Albers, Dr. Anna, Chicago, Ill. Liquid tonic. 245,429. Aug. 14; Serial No. 263,190; published May 22, 1928. Class 6.

Alkalax Company, The. (See Coupland, Henry E.)

Allen-Rethemeyer Co., doing business as Rethemeyer Coffee Co., St. Louis, Mo. Coffee. 245,528; Aug. 14; Serial No. 241,459; published Apr. 26, 1927. Class 46.

Allied Industrial Products Company, Chicago, Ill. Chamois. 245,486; Aug. 14; Serial No. 259,789; published May 22, 1928. Class 1.

Aluminum Company of America, Pittsburgh, Pa. Caps and closure seals for bottles, etc. 245,388; Aug. 14; Serial No. 262,587; published May 29, 1928. Class 50.

American Art Clay Company, Indianapolis, Ind. Permanently-plastic modeling clay. 245,384; Aug. 14; Serial No. 262,688; published May 8, 1928. Class 1.

American Brooder Company. (See Hunter, Thomas W.)

American Bulb Company, Chicago, Ill. Seeds, bulbs, plants, and moss. 245,464; Aug. 14; Serial No. 262,993; published May 22, 1928. Class 1.

American Catalin Corp., New York, N. Y. Plastic compositions. 245,592; Aug. 14; Serial No. 254,439; published May 29, 1928. Class 50.

American Fur Dyeing Co.—Successful Caracul Dyers Inc., North Bergen, N. J. Dyed skins. 245,524; Aug. 14; Serial No. 243,991; published May 1, 1928. Class 1.

Ams, Max, Incorporated, New York, N. Y. Fruit preserves. 245,556; Aug. 14; Serial No. 258,713; published May 29, 1928. Class 46.

Animal Trap Company of America, Lititz, Pa. Trap setters. 245,401; Aug. 14; Serial No. 262,888; published May 15, 1928. Class 50.

Ansted & Burk Co., The, Springfield, Ohio. Wheat flour. 245,501; Aug. 14; Serial No. 264,133. published May 22, 1928. Class 46.

Arlington Mills, Lawrence and Boston, Mass. Worsted dress goods. 71,955; renewed Dec. 22, 1928.

Asbestos Shingle, Slate & Sheathing Company, Ambler, Pa. Asbestos board. 245,366; Aug. 14; Serial No. 261,476; published Apr. 17, 1928. Class 12.

Aspinook Co., The, Jewett City, Conn. Pyroxylin-glazed chintzes, leather substitutes, etc. 245,400; Aug. 14; Serial No. 262,889. published May 29, 1928. Class 50.

Athletic Tea Company. (See Vogel Bros. & Co.)

Athol Manufacturing Company, Athol, Mass. Woven fabrics. 245,478; Aug. 14; Serial No. 260,078; published May 8, 1928. Class 50.

Atlantic Packing Company. (See Consolidated Rendering Company.)

Babcock, A. P., Company, New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 245,382; Aug. 14; Serial No. 262,788; published May 15, 1928. Class 6.

Baer, Harry L., doing business as Water Treatment Co., Pittsburgh, Pa. Detergent. 245,428. Aug. 14; Serial No. 263,193; published May 29, 1928. Class 6.

Baetz, The Misses, New York, N. Y. Astringents, astringent cerates, etc. 245,461; Aug. 14; Serial No. 263,024; published May 29, 1928. Class 6.

Barber Asphalt Paving Company, The, by change of name to The Barber Asphalt Company, Philadelphia, Pa. Bituminous compounds. 71,862; renewed Dec. 15, 1928.

Barber Asphalt Paving Company, The, by change of name to The Barber Asphalt Company, Philadelphia, Pa. Roofing and bituminous compounds. 71,934; renewed Dec. 22, 1928.

Barber, Bessie L., doing business as Darling of the Gods Laboratories, Los Angeles, Calif. Shampoo, scalp, and hair treatment. 245,350; Aug. 14; Serial No. 261,338; published May 29, 1928. Class 6.

Barrett Company, The, New York, N. Y. Road-building materials. 245,588; Aug. 14; Serial No. 255,631; published May 8, 1928. Class 12.

Beard, Frank P., doing business as Darlco Products Co., Darlington, S. C. Foot lotion. 245,450; Aug. 14; Serial No. 263,743; published May 29, 1928. Class 6.

Bebb, Maurice J., Xenia, Ohio. Chemical compound for cleansing straw. 69,908; renewed July 14, 1928.

Becktel, Eve, New York, N. Y. Toilet goods and preparations. 245,381; Aug. 14; Serial No. 262,789; published May 29, 1928. Class 6.

Bedell Company, The, New York, N. Y. Bags and pocketbooks. 245,529; Aug. 14; Serial No. 240,472; published May 22, 1928. Class 3.

Bedesee Pharmacal Co., Inc., New York, N. Y. Nutritive tonic. 245,396; Aug. 14; Serial No. 263,634; published May 22, 1928. Class 6.

Belknap Hardware & Manufacturing Company, The, Louisville, Ky. Slate and asphalt composition roofing. 245,521; Aug. 14; Serial No. 245,325; published May 1, 1928. Class 12.

Benchetrit, Aaron, New York, N. Y. Liquid injection for treatment of leprosy. 245,541; Aug. 14; Serial No. 257,768; published May 15, 1928. Class 6.

Bergdorf & Goodman Company, New York, N. Y. Toilet articles. 245,423; Aug. 14; Serial No. 262,051; published Apr. 24, 1928. Class 6.

Bergdorf & Goodman Company, New York, N. Y. Toilet articles. 245,424; Aug. 14; Serial No. 262,050; published May 8, 1928. Class 6.

Bettina Inc., New York, N. Y. Ladies' apparel. 245,421; Aug. 14; Serial No. 262,201; published May 1, 1928. Class 39.

Bigler, Frederick A., doing business as Bigler Manufacturing Co., Chippewa Falls, Wis. Moulded and pressed panels. 245,361; Aug. 14; Serial No. 261,037; published May 8, 1928. Class 12.

BiSoDol Co., Inc., New York, N. Y. Antacid digestant. 245,380; Aug. 14; Serial No. 262,791; published May 22, 1928. Class 6.

Bituminous Construction Company, The, Cleveland, Ohio. Asphalt paving. 245,523; Aug. 14; Serial No. 244,281; published May 15, 1928. Class 12.

Borgfeldt, Geo., & Co., New York, N. Y. Dolls. 245,457; Aug. 14; Serial No. 261,633; published May 29, 1928. Class 22.

Bowen, William D., Richmond, Va. Medicine. 71,988; renewed Dec. 29, 1928.

Bradley, Milton, Company, Springfield, Mass. Plastic modeling material. 245,422; Aug. 14; Serial No. 262,112; published May 1, 1928. Class 1.

Brokaw Fur and Rabbit Club Inc., Pasadena, Calif. Rabbits, rabbit skins, etc. 245,436; Aug. 14; Serial No. 261,939; published May 29, 1928. Class 1.

Brooks Hosiery Mills, Philadelphia, Pa. Hosiery. 245,379; Aug. 14; Serial No. 262,794; published May 1, 1928. Class 39.

Brooks, William H., doing business as Greenline Bakeries, San Francisco, Calif. Bread and crackers. 245,463; Aug. 14; Serial No. 262,997; published May 22, 1928. Class 46.

Brougher, D. S., doing business as Wan-Nis-Co Medicine Co., Greensburg, Pa. Oil and preparation. 245,432; Aug. 14; Serial No. 263,069; published May 29, 1928. Class 6.

Cadwallader, Brooke W., also doing business as Cadwallader-Gibson Co., Inc., Los Angeles, Calif. Flooring, panels, doors, etc. 245,372; Aug. 14; Serial No. 263,454; published May 22, 1928. Class 12.

Calicoffee Company. (See Weir, John J.)

California Fruit Growers Exchange, Los Angeles, Calif. Oranges. 72,087; renewed Jan. 5, 1929.

California Hawaiian Milling Company, San Francisco, Calif. Chicken feed. 245,371; Aug. 14; Serial No. 263,456; published May 22, 1928. Class 46.

California Stucco Products Company, Los Angeles, Calif. Plaster. 245,470; Aug. 14; Serial No. 260,554; published Apr. 24, 1928. Class 12.

Carr Milling Company, The, Hamilton, Ohio. Self-r'sing flour. 245,539–40; Aug. 14; Serial Nos. 257,965–6; published May 22, 1928. Class 46.

Carter's Ink Company, The, Cambridge, Mass. Adhesive paste. 245,565; Aug. 14; Serial No. 263,688; published May 22, 1928. Class 5.

Celluloid Corporation, Newark, N. J. Unsensitized and unexposed films. 245,443; Aug. 14; Serial No. 261,793; published May 8, 1928. Class 50.

Celluloid Corporation, Newark, N. J. Unsensitized and unexposed films. 245,454; Aug. 14; Serial No. 261,792; published May 8, 1928. Class 50.

Chemische Fabrik Reutter & Co., Westhelm, near Wilhelmsgluck, Germany. Fly paper. 245,477; Aug. 14; Serial No. 260,257; published May 29, 1928. Class 50.

Chief Remedy Company, St. Joseph, Mo. Medicinal preparation. 245,525; Aug. 14; Serial No. 243,749; published May 29, 1928. Class 6.

Clark, Harry H., New York, N. Y. Sandwiches. 245,587; Aug. 14; Serial No. 250,229; published May 22, 1928. Class 46.

Colloidal Chemists. (See Tuvin, Louis A.)

Colorado Portland Cement Company, The, Denver, Colo. Waterproof cement. 245,460; Aug. 14; Serial No. 263,035; published May 15, 1928. Class 12.

Colton, J. W., Company, The, Springfield, Mass. Flavoring extracts. 71,815; renewed Dec. 15, 1928.

Columbia Mfg. Co., New York, N. Y. Leather goods. 245,485; Aug. 14; Serial No. 259,844; published May 29, 1928. Class 3.

Commonwealth Glue Company. (See Essex Gelatine Company.)

Compañia General de Tabacos de Filipinas, Barcelona, Spain. Cigars. 71,285; renewed Nov. 17, 1928.

Cons, Camille, Chambery, France. Medicinal preparation. 245,390; Aug. 14; Serial No. 262,550; published May 22, 1928. Class 6.

Consolidated Rendering Company, doing business as Atlantic Packing Company, Boston, Mass. Wool, furs, etc. 245,468; Aug. 14; Serial No. 260,806; published Apr 24, 1928. Class 1.

Cork Import Corporation, New York, N. Y. Cork pipe, cork board, and cork tile. 245,512; Aug. 14; Serial No. 227,396; published May 15, 1928. Class 12.
Cork Manufacturing Co. Ltd., London, England. Mats for motor vehicles. 245,548; Aug. 14; Serial No. 259,355; published May 29, 1928. Class 50.
Corn Products Refining Company, New York, N. Y. Cornstarch. 245,427; Aug. 14; Serial No. 263,200; published May 22, 1928. Class 46.
Coupland, Henry E., doing business as The Alkalax Company, Colorado Springs, Colo. Medicine. 245,459; Aug. 14; Serial No. 263,036; published May 29, 1928. Class 6.
Cream of Wheat Company, Minneapolis, Minn. Wheat breakfast food. 245,505; Aug. 14; Serial No. 263,928; published May 22, 1928. Class 46.
"Cristallo" A. G., Thusis, Switzerland. Preparation for stimulating metabolism. 245,397; Aug. 14; Serial No. 263,590; published May 29, 1928. Class 6.
Dalang, E., & Co., Basel, Switzerland. Alimentary pastes. 245,487; Aug. 14; Serial No. 259,763; published Mar. 6, 1928. Class 46.
Dant & Atwood, doing business as William Garnett Company, Louisville, Ky. Whole-grain wheat. 245,515; Aug. 14; Serial No. 249,314; published May 29, 1928. Class 46.
Darlco Products Co. (See Beard, Frank P.)
Darling of the Gods Laboratories. (See Barber, Bessie L.)
Davis, Bert E., Waterloo, Iowa. Incubators and brooders. 245,475; Aug. 14; Serial No. 260,427; published May 22, 1928. Class 50.
Delaware, Lackawanna & Western Coal Company, The, New York, N. Y. Coal. 245,442; Aug. 14; Serial No. 261,799; published Apr. 24, 1928. Class 1.
Dercover, Gustave, Wolluwe-St. Lambert, Belgium. Portland cement. 245,474; Aug. 14; Serial No. 260,378; published May 15, 1928. Class 12.
Detroit Lubricator Company, Detroit, Mich. Machinery and parts thereof. 69,785; renewed July 7, 1928.
Disston, Henry, & Sons, Incorporated, Tacony, Philadelphia, Pa. Saws. 71,982; renewed Dec. 29, 1928.
Disston, Henry, & Sons, Incorporated, Tacony, Philadelphia, Pa. Saw sets. 71,983; renewed Dec. 29, 1928.
Dodge Manufacturing Corporation, Mishawaka, Ind., and Oneida, N. Y. Castings. 245,508; Aug. 14; Serial No. 265,322; published May 29, 1928. Class 14.
Draper Company, Portland, Me., and Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass. Loom temples. 70,986; renewed Oct. 20, 1928.
Dums Products Company, Chicago, Ill. Preparation designed to eradicate freckles, spots, etc. 245,393; Aug. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Class 6.
Eau de Cologne- & Parfümerie Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von ferd. Mülhens. (See Mülhens, Paul P.)
Edge Hill Silica Rock Co., New Brunswick, N. J. Grit for poultry. 69,844; renewed July 14, 1928.
Essex Gelatine Company, doing business as Commonwealth Glue Company, Boston, Mass. Liquid glue. 245,497; Aug. 14; Serial No. 264,368; published May 29, 1928. Class 5.
Eugene Ltd., New York, N. Y. Sachets and wave-setting preparations. 245,466; Aug. 14; Serial No. 262,024; published May 22, 1928. Class 6.
Everlite Products Corporation, Brooklyn, N. Y. Fluid. 245,378; Aug. 14; Serial No. 262,801; published May 29, 1928. Class 6.
Fairlie, Andrew M., Atlanta, Ga. Hollow blocks. 245,589; Aug. 14; Serial No. 254,842; published May 29, 1928. Class 12.
Felton Chemical Company, Inc., Brooklyn, N. Y. Chemical solvents. 245,504; Aug. 14; Serial No. 264,093; published May 22, 1928. Class 6.
Ferro Medicine Co., San Antonio, Tex. Preparation. 245,555; Aug. 14; Serial No. 258,807; published May 22, 1928. Class 6.
Filbert, J. H., Inc., Baltimore, Md. Oleomargarine. 245,495; Aug. 14; Serial No. 264,426; published May 29, 1928. Class 46.
Fine & Luke, New York, N. Y. Suits, trousers, vests, coats, and overcoats. 245,377; Aug. 14; Serial No. 262,802; published May 1, 1928. Class 39.
Fisher, Alfred, Furnaces, Inc., Chicago, Ill. Furnace cement. 245,551; Aug. 12; Serial No. 259,192; published May 15, 1928. Class 12.
Food Balance Corporation, Chicago, Ill. Medicinal preparations. 245,440; Aug. 14; Serial No. 261,871; published May 29, 1928. Class 6.
Foster, M. B., & Sons, Limited, assignor to M. B. Foster & Sons, Limited, London, England. Beer. 71,210; renewed Nov. 10, 1928.
Foster, M. B., & Sons, Limited, assignor to M. B. Foster & Sons, Limited, London, England. Beer. 72,027; renewed Dec. 29, 1928.
Foster-Millburn Co., Buffalo, N. Y. Pills, laxatives, tonics, etc. 245,552; Aug. 14; Serial No. 259,058; published May 22, 1928. Class 6.
Frager Bros. Garment Co., St. Louis, Mo. Dresses. 245,462; Aug. 14; Serial No. 262,998; published May 1, 1928. Class 39.
Frank Harry, New York, N. Y. Gowns, frocks, and dresses. 245,537; Aug. 14; Serial No. 258,260; published May 8, 1928. Class 39.
Fried-Lang Leather Co., Inc., New York, N. Y. Leather. 245,511; Aug. 14; Serial No. 227,736; published Apr. 24, 1928. Class 1.
Fruit Growers Supply Company, Los Angeles, Calif. Lumber. 245,418; Aug. 14; Serial No. 262,301; published May 29, 1928. Class 12.
Gale Shoe Manufacturing Co., Boston, Mass., and Manchester, N. H. Leather shoes. 245,456; Aug. 14; Serial No. 261,750; published May 1, 1928. Class 39.
Garfinkle, Julius, assignor to Julius Garfinkel, trading as Julius Garfinkel & Co., Washington, D. C. Corsets. 70,100; renewed July 28, 1928.
Garnett, William, Company. (See Dant & Atwood.)
Gelinas, Edmond, doing business as Gelinas Medicine Company, Woonsocket, R. I. Medical preparation. 245,560; Aug. 14; Serial No. 256,668; published May 29, 1928. Class 6.
General Weather Strip Company, St. Louis, Mo. Metal and felt weather strips. 245,349; Aug. 14; Serial No. 261,361; published May 1, 1928. Class 12.
Glassman, Maurice H., Boston, Mass. Specially-prepared sawdust. 245,472; Aug. 14; Serial No. 260,443; published May 22, 1928. Class 1.
Globe-Wernicke Co., The, Norwood, Ohio. Furniture polish. 245,471; Aug. 14; Serial No. 260,499; published May 29, 1928. Class 16.
Golden Bear Cookie Company, The, Berkeley, Calif. Cakes and cookies. 245,359; Aug. 14; Serial No. 261,188; published May 29, 1928. Class 46.
Goodhair Remedy Company, Newark, Ohio, to The Goodhair Company, Cincinnati, Ohio, successor. Soap. 70,332; renewed Aug. 25, 1928.
Goodrich, B. F., Company, The, New York, N. Y. Sheet rubber. 245,362; Aug. 14; Serial No. 261,625; published May 22, 1928. Class 50.
Grassi, P., & Co., San Francisco, Calif. Synthetic stone. 245,355; Aug. 14; Serial No. 261,313; published May 1, 1928. Class 12.
Gray-Von Allmen Sanitary Milk Co., Inc., Louisville, Ky. Bottled milk. 245,526; Aug. 14; Serial No. 243,207; published May 22, 1928. Class 46.
Green Table Pad Corp., The, New York and Brooklyn, N. Y. Heatproof and waterproof table pads. 245,480; Aug. 14; Serial No. 259,956; published May 1, 1928. Class 50.
Green Table Pad Corp., The, New York and Brooklyn, N. Y. Heatproof and waterproof table pads. 245,481; Aug. 14; Serial No. 259,955; published Apr. 24, 1928. Class 50.
Green Table Pad Corp., The, New York and Brooklyn, N. Y. Heatproof and waterproof table pads. 245,482; Aug. 14; Serial No. 259,954; published Apr. 17, 1928. Class 50.
Greenline Bakeries. (See Brooks, William H.)
Haddock Mining Company, Wilkes-Barre, Pa. Coal. 245,358; Aug. 14; Serial No. 261,190; published May 8, 1928. Class 1.
Hansen, O. C., Mfg. Co., Milwaukee, Wis. Women's gloves. 245,412; Aug. 14; Serial No. 262,400; published May 1, 1928. Class 39.
Harris Bros. & Mann Inc., New York, N. Y. Coats. 245,580; Aug. 14; Serial No. 251,394; published May 8, 1928. Class 39.
Harris, Frank E., Co., Inc., Binghamton, N. Y. Aromatic lotion. 245,411; Aug. 14; Serial No. 262,401; published May 15, 1928. Class 6.
Hecker-H-O Company, Inc., Buffalo, N. Y. Cereal food products. 245,542; Aug. 14; Serial No. 257,545; published May 22, 1928. Class 46.
Hecker-H-O Company, Inc., Buffalo, N. Y. Cereal food products. 245,543; Aug. 14; Serial No. 257,543; published May 22, 1928. Class 46.
Hermann, Paul F., Pittsburgh, Pa. Compounds in powdered and liquid form. 245,364; Aug. 14; Serial No. 261,570; published May 15, 1928. Class 1.
Herrick Refrigerator and Cold Storage Company, Waterloo, Iowa. Refrigerators. 70,197–8; renewed Aug. 11, 1928.
Hillside Cotton Mills, doing business as Valley Mills, Lagrange, Ga. Woven fabrics. 245,536; Aug. 14; Serial No. 258,334; published May 29, 1928. Class 42.
Hilmer Commission Co., St. Louis, Mo. Butter. 72,066. renewed Dec. 29, 1928.
Holm & Nathan, San Francisco, Calif. Ladies' hats. 245,352–4; Aug. 14; Serial Nos. 261,315–17; published May 1, 1928. Class 39.
Hood Rubber Co., Boston, to Hood Rubber Company, Watertown, Mass. Boots and shoes and overshoes. 72,044; renewed Dec. 29, 1928.
Horn, Max, & Bro., New York, N. Y. Noninflammable translucent cellulose composition. 245,375; Aug. 14; Serial No. 262,850; published May 22, 1928. Class 50.
Horton Manufacturing Company, The. (See Martin's, E. J., Sons, assignor.)
Hudson Fireproof Block Co., North Bergen and Homestead, N. J. Building blocks, bricks, and tiles. 245,577; Aug. 14; Serial No. 251,971; published May 22, 1928. Class 12.
Hull, Emerson C., doing business as Jacob Hull & Sons, Poughkeepsie, N. Y. Liniment. 245,561; Aug. 14; Serial No. 256,627; published Jan. 10, 1928. Class 6.
Hunter, Thomas W., doing business as American Brooder Company, Alhambra, Calif. Brooders and brooder parts. 245,546; Aug. 14; Serial No. 256,296; published May 1, 1928. Class 50.

Hyman, George, New York, N. Y., assignor to Beam-O-Lite Sign Corporation of America, Dover, Del. Advertising signs illuminated by daylight. 245,469; Aug. 14; Serial No. 260,684; published May 8, 1928. Class 50.
Hyper-Humus Company, Newton, N. J. Plant soil. 245,373; Aug. 14; Serial No. 263,404; published May 29, 1928. Class 1.
Independent Salt Company, New York, N. Y. Salt. 245,531; Aug. 14; Serial No. 237,737; published May 15, 1928. Class 6.
International Tailoring Co., New York, N. Y. Men's outer clothing. 245,455; Aug. 14; Serial No. 261,754; published May 1, 1928. Class 39.
Inthol Company. (See West, Abner H.)
Italy Laboratories. (See Martino, Antonino R.)
Ives Ice and Coal Company, North Tonawanda, N. Y. Coal. 245,360; Aug. 14; Serial No. 261,062; published Apr. 24, 1928. Class 1.
Jefferson, Charles M., doing business as Quinsy Gargle Company, Chicago, Ill. Gargle. 244,449; Aug. 14; Serial No. 263,764; published May 22, 1928. Class 6.
Johnson & Goldstein, New York, N. Y. Men's clothing. 245,553; Aug. 14; Serial No. 258,911; published May 8, 1928. Class 39.
Kelster, Anderson T., Blacksburg, Va. Grapevines. 245,407; Aug. 14; Serial No. 262,465; published May 22, 1928. Class 1.
Kelly, F. B., Co. Inc., Rochester, N. Y. Window display frames. 245,513; Aug. 14; Serial No. 226,148; published Apr. 24, 1928. Class 50.
Koch, Chas. J., doing business as Wonder Brand Food Co., Jersey City, N. J. Nestling food, cod-liver-oil food, etc. 245,563; Aug. 14; Serial No. 264,993; published May 29, 1928. Class 46.
Kulched, Inc., Cambridge, Mass. Hats. 245,578; Aug. 14; Serial No. 251,911; published May 8, 1928. Class 39.
Leavell Coal Company, Tulsa, Okla. Coal. 245,535; Aug. 14; Serial No. 258,417; published Apr. 17, 1928. Class 1.
Leon, Benjamin, Camden, N. J. Beetle traps. 245,406; Aug. 14; Serial No. 262,469; published May 15, 1928. Class 50.
Les Etablissements Poulenc Freres, Paris, France. Double iodure of quinine and bismuth. 245,451; Aug. 14; Serial No. 263,710; published May 29, 1928. Class 6.
Lesquendieu Incorporated, New York, N. Y. Hygienic cream or paste for the skin. 245,527; Aug. 14; Serial No. 242,433; published May 29, 1928. Class 6.
Leuschner, Oswald, Astoria, N. Y. Shampoos. 245,426; Aug. 14; Serial No. 263,323; published May 22, 1928. Class 6.
Lichtenberger-Ferguson Company, Los Angeles, Calif. Sole leather. 245,522; Aug. 14; Serial No. 244,780; published May 22, 1928. Class 1.
Lombard, Fred, Santa Rosa, Calif. Fly swatters. 245,351; Aug. 14; Serial No. 261,322; published May 8, 1928. Class 50.
Lustria Chapal Fils, Montreuil-sous-Bois, France. Furs, pelts, hides, etc. 245,479; Aug. 14; Serial No. 260,060; published May 22, 1928. Class 1.
Lynch, Charles E., Shoe Mfg. Co., Inc., The, New York, N. Y. Leather boots and shoes. 245,549; Aug. 14; Serial No. 259,286; published May 8, 1928. Class 39.
Lyons, Leon, doing business as Lyons Hose Protector Company, Omaha, Nebr. Hose protector. 245,597; Aug. 14; Serial No. 254,042; published May 8, 1928. Class 39.
MacGill, William V., doing business as William V. MacGill & Co., Chicago, Ill. Medicines and pharmaceutical preparations. 245,530; Aug. 14; Serial No. 234,141; published May 29, 1928. Class 6.
Maharon, Myrtle B. M., Mount Vernon, N. Y. Douche powder. 245,392; Aug. 14; Serial No. 262,522; published May 29, 1928. Class 6.
Maillett, A. A., Co., Inc., New York, N. Y. Soluble powder. 245,430; Aug. 14; Serial No. 263,163; published May 15, 1928. Class 6.
Manhattan Terrazzo Brass Strip Company, Inc., New York, N. Y. Strips for terrazzo flooring. 245,595; Aug. 14; Serial No. 254,187; published Apr. 24, 1928. Class 12.
Martin Dennis Company, The, Newark, N. J. Tanner's bate, tanner's oils, etc. 245,445; Aug. 14; Serial No. 263,828; published May 15, 1928. Class 6.
Martino, Antonino R., doing business as Italy Laboratories, New York, N. Y. Laxatives. 245,448; Aug. 14; Serial No. 263,772; published May 22, 1928. Class 6.
Martin's, E. J., Sons, Rockville, assignor to The Horton Manufacturing Company, Bristol, Conn. Fishing lines. 70,994; renewed Oct. 20, 1928.
Masteller Coal Company, The, Keyser, W. Va. Coal. 245,376; Aug. 14; Serial No. 262,813; published May 22, 1928. Class 1.
Materials, Inc., Los Angeles, Calif. Building cement and concrete. 245,365; Aug. 14; Serial No. 261,517; published May 15, 1928. Class 12.
Mayer, Egon, Binghamton, N. Y. Sponges and chamois. 245,374; Aug. 14; Serial No. 263,330; published May 22, 1928. Class 1.
Mayer, Egon, Binghamton, N. Y. Chamois. 245,425; Aug. 14; Serial No. 263,329; published May 22, 1928. Class 1.
McDonald, George W., Colorado Springs, Colo. Inhalant. 245,503; Aug. 14; Serial No. 264,114; published May 29, 1928. Class 6.
McGavin's Bread, Inc., Denver, Colo. Bread. 245,435; Aug. 14; Serial No. 261,975; published May 22, 1928. Class 46.
McGreevey, Werring & Howell Inc., New York, N. Y. Ladies' knitted underwear, shoes, hosiery, etc. 245,368; Aug. 14; Serial No. 261,446; published May 1, 1928. Class 39.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Magnesium hydroxide. 245,383; Aug. 14; Serial No. 262,744; published May 29, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Cold and grippe tablets. 245,488–9; Aug. 14; Serial Nos. 264,460–1; published May 29, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Tooth paste. 245,490–3; Aug. 14; Serial Nos. 264,456–9; published May 29, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Nose and throat sprays. 245,494; Aug. 14; Serial No. 264,455; published May 29, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Cold and grippe tablets. 245,562; Aug. 14; Serial No. 264,462; published May 29, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Ointment. 245,570–1; Aug. 14; Serial Nos. 264,468–9; published May 29, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Tooth paste. 245,572–3; Aug. 14; Serial Nos. 264,466–7; published May 29, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Throat spray or gargle. 245,574; Aug. 14; Serial No. 264,465; published May 29, 1928. Class 6.
McKesson & Robbins, New York, N. Y., to McKesson & Robbins, Incorporated, Bridgeport, Conn., successor. Ethereal preparations. 32,275; renewed Dec. 20, 1928.
Metropolitan Roofing Supplies Company, Inc., New York, N. Y. Coal tar and asphalt for roofing, etc. 245,593–4; Aug. 14; Serial Nos. 254,195–6; published May 1, 1928. Class 12.
Meyer & Lange, Inc., New York, N. Y. Biscuits. 245,564; Aug. 14; Serial No. 264,731; published May 29, 1928. Class 46.
Michelangelo Pacella, M. D., Chicago, Ill. Insecticide. 245,554; Aug. 14; Serial No. 258,827; published May 29, 1928. Class 6.
Mid-Kansas Milling Co., The. (See Shellabarger Mills & Elevator Company.)
Miller Products Company, Waterloo, Iowa. Mineral feed and grain feed for stock. 245,568; Aug. 14; Serial No. 264,598; published May 29, 1928. Class 46.
Miller, William A., Cleveland, Ohio. Composition for hair treatment in liquid form. 245,395; Aug. 14; Serial No. 263,661; published May 15, 1928. Class 6.
Mortell, J. W., Co., The, Kankakee and Chicago, Ill. Asphaltic waterproofing materials, etc. 245,544; Aug. 14; Serial No. 257,375; published Apr. 24, 1928. Class 12.
Mülhens, Paul P., doing business as Eau de Cologne- & Parfümerie Fabric "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne, Germany. Eau de Cologne water, perfumery, shampoo, etc. 245,510; Aug. 14; Serial No. 229,121; published May 29, 1928. Class 6.
N. V. Nederlandsche Kunstzijdefabriek, Arnhem, Netherlands. Raw wool, artificial straw, artificial horsehair, etc. 245,590; Aug. 14; Serial No. 254,146; published Apr. 24, 1928. Class 1.
National Biscuit Company, New York, N. Y. Biscuit, cake, and crackers. 245,499–500; Aug. 14; Serial Nos. 264,180–1; published May 29, 1928. Class 46.
National Biscuit Company, Jersey City, N. J., and Chicago, Ill., to National Biscuit Company, New York, N. Y. Bakery products and confectionery. 32,301; renewed Dec. 27, 1928.
National Cellulose Corporation, New York, N. Y. Cellulose wadding. 245,370; Aug. 14; Serial No. 263,509; published May 29, 1928. Class 1.
National Grain Yeast Corporation, Belleville, N. J. Grain yeast. 245,557; Aug. 14; Serial No. 258,645; published May 29, 1928. Class 46.
National Sewing Machine Company, Belvidere, Ill. Sewing machines, stands, and attachments. 32,278–9; renewed Dec. 20, 1928.
National Shirt Shops, Inc., New York, N. Y. Men's athletic pants and underwear. 245,419; Aug. 14; Serial No. 262,243; published May 1, 1928. Class 39.
National Shirt Shops, Inc., New York, N. Y. Men's negligee and sport shirts and underwear. 245,420; Aug. 14; Serial No. 262,242; published May 1, 1928. Class 39.
Nature Herb Co. Inc., Seattle, Wash. Medicinal compounds and antacid laxative. 245,387; Aug. 14; Serial No. 262,620; published May 22, 1928. Class 6.
Neely, Harwell & Co., Nashville, Tenn. Underwear, sport coats, and shirts. 245,576; Aug. 14; Serial No. 254,643; published May 8, 1928. Class 39.
Neuman & Schwiers Co. Inc., The, New York, N. Y. Sardines. 70,961; renewed Oct. 20, 1928.
Neuss, Hesslein & Co., assignor to Neuss, Hesslein & Co., Inc., New York, N. Y. Printed cotton piece goods. 71,452–3; renewed Nov. 24, 1928.
New Haven Copper Co., The, Seymour, Conn. Nonferrous sheets, strips, rods, etc. 245,453; Aug. 14; Serial No. 263,662; published May 29, 1928. Class 14.
New York Awning Co. Inc., New York, N. Y. Awnings, awning fixtures, etc. 245,507; Aug. 14; Serial No. 263,883; published May 29, 1928. Class 50.

Northrup, King & Co., Minneapolis, Minn. Garden seed. 245,417; Aug. 14; Serial No. 262,323; published May 15, 1928. Class 1.
Nutlax Corporation, New York, N. Y. Laxatives. 245,506; Aug. 14; Serial No. 263,886; published May 22, 1928. Class 6.
Odell Company, Inc., The, Newark, N. J. Hair tonic. 245,569; Aug. 14; Serial No. 264,471; published May 29, 1928. Class 6.
Ohio Leather Company, The, Girard, Ohio. Leathers. 245,386; Aug. 14; Serial No. 262,624; published May 8, 1928. Class 1.
Osborne Register Company, The, Cincinnati, Ohio. Scrip coins. 245,447; Aug. 14; Serial No. 263,784; published May 29, 1928. Class 50.
Ottumwa Mercantile Co., The, Ottumwa, Iowa. Hosiery and underwear. 245,458; Aug. 14; Serial No. 261,644; published May 1, 1928. Class 39.
Paragon Company, The, New York, N. Y. Nightshirts, pajamas, and smoking jackets. 71,834; renewed Dec. 15, 1928.
Parke, L. H., Company. (See Wolfe, McMillan & Co., assignor.)
Pawnee Indian Medicine Company. (See Varnell, Charles.)
Pendleton Woolen Mills, Portland, Oreg. Clothing. 245,441; Aug. 14; Serial No. 261,833; published May 1, 1928. Class 39.
Peres, Daniel, to Daniel Peres, Solingen, Germany, successor. Cutlery. 72,302; renewed Jan. 12, 1928.
Petterson, Oscar G., Company, Cambridge, Mass. Hard bread. 245,403; Aug. 14; Serial No. 262,870; published May 22, 1928. Class 46.
Pinaud Incorporated, New York, N. Y. Toilet powder. 245,476; Aug. 14; Serial No. 260,305; published May 22, 1928. Class 6.
Pioneer Table Mat Company, The, Cleveland, Ohio. Table mats. 245,581; Aug. 14; Serial No. 251,011; published May 29, 1928. Class 46.
Pittsburgh Steel Company, Pittsburgh, Pa. Wire lath. 245,545; Aug. 14; Serial No. 257,027; published May 29, 1928. Class 12.
Post, Georgia A., Forest Hills, N. Y. Edible tablets. 245,598; Aug. 14; Serial No. 253,769; published May 22, 1928. Class 6.
Premier Electric Company, Chicago, Ill. Electric cigar lighters. 245,509; Aug. 14; Serial No. 230,642; published Sept. 20, 1927. Class 21.
Price-Snapp-Jones Co., Little Rock, Ark. Hosiery. 245,434; Aug. 14; Serial No. 261,987; published May 1, 1928. Class 39.
Prime Knitting Mills. (See Saftlas, Joseph.)
Printz-Biederman Company, The, Cleveland, Ohio. Clothing. 72,073; renewed Dec. 29, 1928.
Propper Silk Hosiery Mills, Inc., New York, N. Y. Silk hosiery. 245,484; Aug. 14; Serial No. 259,872; published Mar. 13, 1928. Class 39.
Pugh, Avenell, doing business as A. R. Pugh & Co., Sabina, Ohio. Preparation. 245,431; Aug. 14; Serial No. 263,101; published May 22, 1928. Class 6.
Quinsy Gargle Company. (See Jefferson, Charles Marion.)
Radin, Louis, New York, N. Y. Hosiery. 245,410; Aug. 14; Serial No. 262,413; published May 1, 1928. Class 39.
Rapid Manufacturing Company, New York, N. Y. Fluid. 245,439; Aug. 14; Serial No. 261,908; published May 29, 1928. Class 6.
Ray-Signs Corporation, New Haven, Conn. Reflecting signs. 245,399; Aug. 14; Serial No. 262,930; published May 29, 1928. Class 50.
Rex, Clarence R., Toledo, Ohio. Lime. 245,391; Aug. 14; Serial No. 262,529; published May 8, 1928. Class 12.
Rice-Stix Dry Goods Company, St. Louis, Mo. Hosiery. 245,559; Aug. 14; Serial No. 256,835; published May 8, 1928. Class 39.
Richmond, Dr. S. A., Nervine Co., St. Joseph, Mo. Remedy for the nerves and nervous disorders. 70,160; renewed Aug. 4, 1928.
Richter, Friederich A., Rudolstadt, Germany, and New York, N. Y., assignor to F. Ad. Richter & Co., New York and Brooklyn, N. Y. Medicine for ailments of the bladder. 71,629; renewed Dec. 8, 1928.
Rieck-McJunkin Dairy Company, Pittsburgh, Pa. Buttermilk. 245,348; Aug. 14; Serial No. 261,386; published May 29, 1928. Class 46.
Ringgold Coal Company, Timblin, Pa. Bituminous coal. 245,586; Aug. 14; Serial No. 250,640; published May 1, 1928. Class 1.
Rockwood Manufacturing Company, The, Indianapolis, Ind. Flexible floor mat. 245,465; Aug. 14; Serial No. 262,488; published May 8, 1928. Class 50.
Rossid Manufacturing Corporation, Orlando, Fla. Folders for pocket check protectors. 245,520; Aug. 14; Serial No. 245,299; published May 29, 1928. Class 3.
Rossman Corporation, Beaver Falls, Pa. Tiles. 245,367; Aug. 14; Serial No. 261,453; published May 1, 1928. Class 12.
Rougier Frères, Incorporated, Montreal, Quebec, Canada. Throat pastilles. 245,409; Aug. 14; Serial No. 262,415; published May 15, 1928. Class 6.
Rowe, Edward W., New York, N. Y. Underwear and outer wear. 245,356; Aug. 14; Serial No. 261,284; published May 1, 1928. Class 39.
Rudy-Patrick Seed Company, Kansas City, Mo. Seeds. 245,538; Aug. 14; Serial No. 258,194; published Mar. 20, 1928. Class 1.
Saftlas, Joseph, doing business as Prime Knitting Mills, Philadelphia, Pa. Men's and women's knitted cravats and sweaters. 245,402; Aug. 14; Serial No. 262,873; published May 1, 1928. Class 39.
Sawyer, Richie R., doing business as Sawyer Grain Company, San Francisco, Calif. Poultry and livestock food. 245,518; Aug. 14; Serial No. 247,214; published Apr. 10, 1928. Class 46.
Scheiffele Shoe Manufacturing Company, The, to The United States Shoe Company, Cincinnati, Ohio, successor. Boots, shoes, and slippers. 70,297; renewed Aug. 18, 1928.
Schoenthal, Nathan, doing business as Window Poster Co., New York, N. Y. Nonelectrical signs and sign letters. 245,357; Aug. 14; Serial No. 261,211; published Apr. 24, 1928. Class 50.
Scott, G. Sam, Malden, Mass. Asphalt emulsions. 245,416; Aug. 14; Serial No. 262,335; published May 1, 1928. Class 12.
Shellabarger Mills & Elevator Company, doing business as The Mid-Kansas Milling Co., Salina, Kans. Wheat flour. 245,532–4; Aug. 14; Serial Nos. 258,595–7; published May 22, 1928. Class 46.
Shellabarger Mills & Elevator Company, doing business as The Mid-Kansas Milling Co., Salina, Kans. Wheat flour. 245,558; Aug. 14; Serial No. 258,598; published May 22, 1928. Class 46.
Smith, Ernest A., doing business as E. A. Smith Co., Westerly, R. I. Ointments and salves. 245,590; Aug. 14; Serial No. 254,693; published Jan. 10, 1928. Class 6.
Smith, George F., Woodsboro, Md. Medicinal soap 71,878; renewed Dec. 22, 1928.
Smith, J. Allen, & Co., Knoxville, Tenn. Wheat flour. 245,547; Aug. 14; Serial No. 259,599; published Apr. 10, 1928. Class 46.
Societe des Etablissements Gaumont, Paris, France. Photographic cameras, moving-picture machines, and films. 72,032; renewed Dec. 29, 1928.
Society of Chemical Industry in Basle, Basel, Switzerland. Chemical product. 245,502; Aug. 14; Serial No. 264,124; published May 29, 1928. Class 6.
Southern Biscuit Company, Inc., Richmond, Va. Biscuits, crackers, and hard cakes. 245,566–7; Aug. 14; Serial Nos. 264,614–5; published May 29, 1928. Class 46.
Standard Laboratories, Inc., New York, N. Y. Pomades for the hair. 245,437–8; Aug. 14; Serial Nos. 261,930–1; published Apr. 24, 1928. Class 6.
Star Brass Manufacturing Company, Boston, Mass. Valves and parts thereof. 70,085; renewed July 28, 1928.
Stevens-Wiley Mfg. Co., Inc., The, Philadelphia, Pa. Compounds for the treatment of corns. 245,408; Aug. 14; Serial No. 262,428; published May 22, 1928. Class 6.
Sun Company, by change of name to Sun Oil Company, Philadelphia, Pa. Lubricating oils. 70,804; renewed Oct. 6, 1928.
Superior Wall Tile Company, Chicago, Ill. Decorative tile. 245,363; Aug. 14; Serial No. 261,593; published May 1, 1928. Class 12.
Swift and Company, Chicago, Ill. Packing house products. 32,234; renewed Dec. 13, 1928.
Traun, Dr. Heinr., & Söhne, vormals Harburger Gummi-Kamm-Compagnie, Hamburg, Germany. Goods manufactured from india rubber. 245,465; Aug. 14; Serial No. 262,976; published May 15, 1928. Class 1.
Treyatex Products Corporation, New York, N. Y. Tiles. 245,433; Aug. 14; Serial No. 261,999; published Apr. 24, 1928. Class 12.
Triumph Hosiery Mills, New York, N. Y. Hosiery. 245,389; Aug. 14; Serial No. 262,579; published May 1, 1928. Class 39.
Tuvin, Louis A., doing business as Colloidal Chemists, New York, N. Y. Reducing cream. 245,398; Aug. 14; Serial No. 263,567; published May 15, 1928. Class 6.
Underberg, Hubert, doing business as H. Underberg-Albrecht, Rheinberg, Germany. Stomachic. 245,582–4; Aug. 14; Serial Nos. 250,771–3; published May 22, 1928. Class 6.
Underberg, Hubert, doing business as H. Underberg-Albrecht, Rheinberg, Germany. Stomachic. 245,585; Aug. 14; Serial No. 250,770; published May 22, 1928. Class 6.
Union Bag & Paper Company, The, New York, N. Y., assignor to Union Bag & Paper Corporation, Jersey City, N. J., and New York, N. Y. Paper bags. 71,217; renewed Nov. 10, 1928. Class 2.
Union Pacific Railroad Company, Omaha, Nebr. Railway freight and passenger cars. 32,036; renewed Oct. 4, 1928.
Union Tank & Pipe Co., Los Angeles, Calif. Device for marking pedestrian pathway or such. 245,517; Aug. 14; Serial No. 247,505; published Apr. 24, 1928. Class 50.
United States Leather Selling Corporation, The, New York, N. Y. Sole leather in all its forms. 245,413–15; Aug. 14; Serial Nos. 262,383–5; published May 1, 1928. Class 1.
United States Lime Products Corporation, San Francisco, Calif. Hydrated lime and quicklime. 245,550; Aug. 14; Serial No. 259,264; published Apr. 24, 1928. Class 12.
United States Shoe Company, The. (See Scheiffele Shoe Manufacturing Company, The.)

Utah Woolen Mills, Salt Lake City, Utah. Woolen garments. 245,514; Aug. 14; Serial No. 212,112; published June 15, 1926. Class 39.
Valley Mills. (See Hillside Cotton Mills.)
Van Ameringen, Arnold L., New York, N. Y. Perfumes, essences of perfumes, etc. 245,404; Aug. 14; Serial No. 263,795; published May 22, 1928. Class 6.
Van Ameringen, Arnold L., New York, N. Y. Essences of perfumes, essences for perfumery, materials, etc. 245,446; Aug. 14; Serial No. 263,794; published May 22, 1928. Class 6.
Vanity Fair Silk Mills, Reading, Pa. Vests, bloomers, petticoats, underwear, etc. 245,473; Aug. 14; Serial No. 260,364; published Apr. 10, 1928. Class 39.
Varnell, Charles, doing business as Pawnee Indian Medicine Company, Columbus, Ohio, and Granite City, Ill. Healing salve, catarrh balm, etc. 245,444; Aug. 14; Serial No. 262,003; published May 22, 1928. Class 6.
Veldown Company, Inc., New York, N. Y. Cellulose wadding. 245,347; Aug. 14; Serial No. 261,406; published Apr. 24, 1928. Class 1.
Vogel Bros. & Co., to Athletic Tea Company, Inc., St. Louis, Mo., successor. Coffee. 70,276; renewed Aug. 18, 1928.
Vorclone Company, Milwaukee, Wis. Thermal insulation material. 245,591; Aug. 14; Serial No. 254,652; published May 22, 1928. Class 12.
Walnut Creek Milling Co., Inc., The, Great Bend, Kans. Wheat flour. 245,498; Aug. 14; Serial No. 264,337; published May 22, 1928. Class 46.
Wan-Nis-Co Medicine Co. (See Brougher, D. S.)
Water Treatment Co. (See Baer, Harry L.)
Weir, John J., doing business as Caffeoffee Company, Loma Linda, Calif. Laxative. 245,579; Aug. 14; Serial No. 251,804; published May 29, 1928. Class 6.
West, Abner H., doing business as Inthol Company, Keyport, N. J. Preparation for neutralizing infections. 245,496; Aug. 14; Serial No. 264,399; published May 29, 1928. Class 6.
West Penn Brick Company, Latrobe, Pa. Building brick. 245,483; Aug. 14; Serial No. 259,936; published Apr. 24, 1928. Class 12.
Western Coal & Coke Co., Milwaukee, Wis. Bituminous coal. 245,385; Aug. 14; Serial No. 262,684; published May 8, 1928. Class 1.
Widman, Benjamin F., doing business as Widman & Frank, New York, N. Y. Gloves. 245,519; Aug. 14; Serial No. 246,454; published May 8, 1928. Class 39.
Williams, Leroy M., St. Louis, Mo. Medicine to aid in digestion of foods. 245,516; Aug. 14; Serial No. 249,312; published July 12, 1927. Class 6.
Willis, W. Norman, Louisville, Ky. Coal. 245,575; Aug. 14; Serial No. 258,156; published Apr. 17, 1928. Class 1.
Window Poster Co. (See Schoenthal, Nathan.)
Wisconsin Land & Lumber Co., Hermansville, Mich. Hardwood flooring, etc. 245,394; Aug. 14; Serial No. 262,497; published May 22, 1928. Class 12.
Wolfe, McMillan & Co., assignor to L. H. Parke Company, Philadelphia, Pa. Coffee. 32,260; renewed Dec. 20, 1928.
Wonder Brand Food Co. (See Koch, Chas. J.)
Yomanco Production Co. (See York Manufacturing Company.)
York Manufacturing Company, doing business as Yomanco Production Co., Saco, Me. Waterproofed textile fabrics. 245,467; Aug. 14; Serial No. 260,867; published May 8, 1928. Class 50.
Zala Perfumery Co., Philadelphia, Pa. Hair-oil pomade, hair tonic, etc. 245,369; Aug. 14; Serial No. 263,529; published May 22, 1928. Class 6.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Brand Chewing Gum, Fruit Flavor (5). For Chewing Gum. 34,419; Aug. 14.
Brill, Joseph W., Los Angeles, Calif. Catalina. For Cookies. 34,420; Aug. 14.
Christopher Mercantile Company, Kansas City, Mo. Packed in Tin Keeps Freshness in. For Food Products. 34,421; Aug. 14.
Colgan, John R., Kansas City, Mo. Gop. For Candy Bars. 34,422; Aug. 14.
Cornel Drug Stores Inc., New York, N. Y. Pain's Master. For Proprietary Medicines for Headaches, Colds, Etc. 34,423; Aug. 14.
Franck, Clemence, San Francisco, Calif. Powder in Haste Without Waste. For Powder Puffs. 34,424; Aug. 14.
Franck, Clemence, San Francisco, Calif. Revolutionizing The Powder-Puff. For Powder Puffs. 34,425; Aug. 14.
Franck, Clemence, San Francisco, Calif. The Powder is Here to Stay, With This End Folded in or Tucked Away. For Powder Puffs. 34,426; Aug. 14.
French Quickshine Polish Co. (See Silver, Herman.)
Ghiglione, A. F., & Sons, Inc., Seattle, Wash. Ghiglione's Say "Gill-Yo-Ne." For Noodles. 34,427; Aug. 14.
Hammond, Dr. W. D., doing business as Silvitol Laboratory, Minneapolis, Minn. Silvitol Tobacco Habit Remedy. For a Preparation to Prevent Craving for Tobacco. 34,428; Aug. 14.
Hayes-Donohue Manufacturing Company, Inc., The, Milford, Conn. Nell Brinkley Hair Net. For Hair Nets. 34,429; Aug. 14.
Henry W., Inc., Chicago, Ill. Frozen Peanut Bar. For Ice-Cream Bar. 34,430; Aug. 14.
Hildebrand Printery Inc., Brooklyn, N. Y. Snow Cap. For Ginger Ale. 34,431; Aug. 14.
Inderrieden Canning Co. (See Peter Pan Sales Corporation.)
Kauffmann, F. A., Mfg. Co., St. Louis, Mo. Salad Bouquet. For a Combined Condiment and Flavoring Compound. 34,432; Aug. 14.
Marioneaux, Joseph R., doing business as Texitone Medicine Co., Shreveport, La. Texitone. For Medicine. 34,433; Aug. 14.
New Yorkers Company, The. (See Raymer, Paul H.)
Nicotex Company, The, New York, N. Y. Nicotex. For Preparation for Removing Tobacco and Nicotine Stains From the Skin. 34,434; Aug. 14.
Noma Electric Corporation, New York, N. Y. Noma Electric Candle. For Electric Candle and Wreaths for Decorative Purposes. 34,435; Aug. 14.
Oakland Noodle Factory, Oakland, Calif. Chop Suey Brand Genuine Soy Sauce. For Soy Sauce. 34,436; Aug. 14.
Peter Pan Sales Corporation, doing business as Inderrieden Canning Co., Chicago, Ill. Peter-Pan. For Canned Peas. 34,437; Aug. 14.
Prescott, J. L., Company, Philadelphia, Pa. Oxol. For Germicide Deodorant, Sterilizer, Disinfectant, Cleanser, and Bleacher. 34,438; Aug. 14.
Raymer, Paul H., doing business as The New Yorkers Company, New York, N. Y. New Yorkers. For Chewing Gum. 34,439; Aug. 14.
Reinshagen, Leroy G., doing business as Roy's Distributing Company, Cincinnati, Ohio. Roy's Malt Syrup. For Malt Syrup. 34,440; Aug. 14.
Rose Medical Co., Cleveland, Ohio. Shotts. For Medicinal Tonic. 34,441; Aug. 14.
Roy's Distributing Company. (See Reinshagen, Leroy G.)
Schmid, Karl, and Paula Schmid, Columbus, Ohio. Schmid's Wound Salve. For Medicinal Preparation in the Form of a Salve. 34,442; Aug. 14.
Silver, Herman, doing business as French Quickshine Polish Co., Newark, N. J. Quickshine. For Polish for Lacquer, Varnish, and Enamel Finishes. 34,443; Aug. 14.
Silvitol Laboratory. (See Hammond, Dr. W. D.)
Stall, Leo W., Buffalo, N. Y. H. E. B. For Cough Medicine. 34,444; Aug. 14.
Super Service Corporation, Omaha, Nebr. Super Service. For Pure Vegetable-Oil Soap. 34,445; Aug. 14.
Tea Garden Products Co., San Francisco, Calif. Tea Garden. For Syrup. 34,446; Aug. 14.
Tea Garden Products Co., San Francisco, Calif. Poppy. For Syrup. 34,447; Aug. 14.
Texitone Medicine Co. (See Marioneaux, Joseph R.)
Utah Canning Co., The, Ogden, Utah. Utah Maid. For Canned Tomatoes. 34,448; Aug. 14.
Valley Poultry Company, San Leandro, Calif. Barred-Rock. For Canned Chicken. 34,449; Aug. 14.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

B. V. D. Company, Inc., The, New York, N. Y. Cool, Fresh, Clean Underwear! For Athletic Underwear. 11,149; Aug. 14.
B. V. D. Company, Inc., The, New York, N. Y. If Thrift is Your Aim. For Athletic Underwear. 11,150; Aug. 14.
Collingbourne Mills Inc., Elgin, Ill. Collingbourne's Elgin Twist. For Mercerized-Cotton Machine Twist. 11,151; Aug. 14.
Colortone Company, Inc., The, Milwaukee, Wis. Colortones. For Food Colors. 11,152; Aug. 14.
Goodyear Tire & Rubber Company Inc., The, Akron, Ohio. Good-Wingfoot-Year Means Good Wear. For Tires Composed Wholly or in Part of Rubber. 11,153; Aug. 14.
Hills Bros., San Francisco, Calif. Adform 83. For Coffee. 11,154; Aug. 14.
Hudson Coal Company, The, Scranton, Pa. The D. & H. Lackawanna Anthracite. For Coal. 11,155–7; Aug. 14.

Inecto, Inc., New York, N. Y. For a Smart Woman Heartbreak Age Begins with Her First Gray Hair and Ends When She Finds Notox. For Inecto Rapid Notox. 11,158; Aug. 14.

Inecto, Inc., New York, N. Y. Notox . . . Means The End of Heartbreak Age For Inecto Rapid Notox. 11,159; Aug. 14.

Inecto, Inc., New York, N. Y. What is a Woman to do at the Sign of the First Gray Hair? For Inecto Rapid Notox. 11,160; Aug. 14.

Juliet Products Co. (See Silbar, Allen.)

Ketchum, Walter C., Yakima, Wash. Blitz. For Preparation for the Treatment of Corns. 11,161; Aug. 14.

Pfaffman Egg Noodle Company, The, Cleveland, Ohio. Pfaffman's Prepared Food Products. For Alimentary Paste Products. 11,162; Aug. 14.

Ross Manufacturing Company, Kansas City, Mo. Rossite. For Drainpipe Solvent. 11,163; Aug. 14.

Silbar, Allen, doing business as Juliet Products Co., Chicago, Ill. Juliet Sure-Lite. For Fluid for Cigar Lighters. 11,164; Aug. 14.

Stein, A., & Company, Chicago, Ill. And He Wonders Why He Wasn't Promoted. For Garters. 11,165; Aug. 14.

Stein, A., & Company, Chicago, Ill. And He Wonders Why Success Never Arrives. For Garters. 11,166; Aug. 14.

Stein, A., & Company, Chicago, Ill. And He Wonders Why They Laughed—And How. For Garters. 11,167; Aug. 14.

Stein, A., & Company, Chicago, Ill. And He Wonders Why She Said "No." For Garters. 11,168; Aug. 14.

Templeton, Kenly & Co., Limited, Chicago, Ill. Simplex Jacks Are "Aces" in Man-Power Quality and Simplicity. For Jacks. 11,169; Aug. 14.

Weil Bros. Inc., New York, N. Y. Good Morning. For Furniture. 11,170. Aug. 14.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abbate & Franks, Inc., New York, N. Y. Dresses. 268,764; Aug. 14. Class 39.

Abbey-Wads Co., New York, N. Y. Finger rings, brooches, scarf pins, etc. 267,624; Aug. 14. Class 28.

Acheson Harden Co., The, New York, N. Y. Handkerchiefs. 267,330; Aug. 14. Class 42.

Acme White Lead & Color Works, Detroit, Mich. Painters' gloss and flat finishes, paints, varnishes, etc. 267,105; Aug. 14. Class 16.

Advance-Rumely Co., La Porte, Ind. Tractors and parts thereof. 264,001; Aug. 14. Class 23.

Albany Perforated Wrapping Paper Company, New York, N. Y. Toilet, tissue, and crepe paper and paper towels. 268,412–13; Aug. 14. Class 37.

All-Klenz Sales Co. Inc., Allentown, Pa. Douche appliances, syringes, and douche attachments therefor. 268,668; Aug. 14. Class 44.

Alpha Gamma Delta Fraternity, New York, N. Y. Fraternity badges, lapel buttons, breastpins, etc. 258,615; Aug. 14. Class 28.

Altman, B., & Co., New York, N. Y. Hosiery. 268,262; Aug. 14. Class 39.

Altorfer Bros. Company, East Peoria, Ill. Laundry washing machines. 269,069+70; Aug. 14. Class 24.

American Cuptor Corporation, New York, N. Y. Machine for vending soft drinks. 268,334; Aug. 14. Class 23.

American Cyanamid Company, New York, N. Y. Insecticides, demothing and moth-resisting compounds. 267,687; Aug. 14. Class 6.

American Gas Machine Company Inc., Albert Lea, Minn. Gasoline and gas heaters. 267,916; Aug. 14. Class 34.

American Hair Felt Company, Chicago, Ill. Under cushion for linoleum and cork carpets. 265,460; Aug. 14. Class 50.

American Hair Felt Company, Chicago, Ill. Under cushion for linoleum and cork carpets. 265,768; Aug. 14. Class 50.

American-La France and Foamite Corporation, Elmira and New York, N. Y. Fire-extinguishing apparatus and parts thereof. 267,884; Aug. 14. Class 23.

American Medicinal Spirits Company, The, Louisville, Ky., and Baltimore, Md. Rye whiskey. 268,073; Aug. 14. Class 49.

American Nickeloid Company, Peru, Ill. Chromium-coated sheets and rolls of sheet metal. 266,846; Aug. 14. Class 14.

American Oil Works Co., Titusville, Pa. Lubricating oils and greases. 261,933; Aug. 14. Class 16.

American Sheet and Tin Plate Company, Pittsburgh, Pa. Rolled iron and steel sheets and plates, copper-bearing sheets, etc. 266,412; Aug. 14. Class 14.

Anderson, C. J., & Co., Chicago, Ill. Electric controllers for motors, automatic starters and control devices for motors, etc. 261,602; Aug. 14. Class 21.

Anderson Company, The, Gary, Ind. Devices for showing and warning of abnormal conditions in combustion-engine-cooling systems. 259,095; Aug. 14. Class 26.

Andes Range & Furnace Corp., Geneva, N. Y. Gas ranges, gas hot plates, and individual domestic gas-supply systems. 250,732; Aug. 14. Class 34.

Architectural Decorating Company, Seattle, Wash. Portable mantels for electric heaters, etc. 268,131; Aug. 14. Class 34.

Arden, Elizabeth, Inc., New York, N. Y. Perfume, toilet water, etc. 267,917–21; Aug. 14. Class 6.

Armstrong Cork Company, Pittsburgh and Lancaster, Pa. Linoleum and felt-base floor coverings. 266,508; Aug. 14. Class 20.

Astral Radio Corporation, Philadelphia, Pa. Tone arms for talking machines. 262,014; Aug. 14. Class 36.

Automatic Signal Corporation, New Haven, Conn. Automatic electric traffic-control systems. 267,222; Aug. 14. Class 21.

Baskerville, John B., assignor to Impactograph Corporation, Roanoke, Va. Impact recorders. 266,014; Aug. 14. Class 26.

Bastian-Morley Co., also doing business as Gas and Electric Heater Co., La Porte, Ind. Electric water heaters. 266,910; Aug. 14. Class 21.

Bastian, W. B., Manufacturing Company, Los Angeles, Calif. Gas water heaters. 258,450; Aug. 14. Class 34.

Beal-Burrow Dry Goods Co., Little Rock, Ark. Overalls, coats, pants, etc. 265,774; Aug. 14. Class 39.

Berry Brothers, Incorporated, Detroit, Mich. Lacquers, reducers, ready-mixed paint, and primers. 266,575; Aug. 14. Class 16.

Berry Brothers, Incorporated, Detroit, Mich. Varnish, stain, etc. 266,576; Aug. 14. Class 16.

Binney & Smith Company, New York, N. Y.. Crayons, slate pencils, and chalk. 268,136–9; Aug. 14. Class 37.

Birk, Walter, Candy Co., Chicago, Ill. Candy. 268,842; Aug. 14. Class 46.

Bitumuls Corporation, San Francisco, Calif. Bituminous compounds and emulsions miscible in water. 262,389; Aug. 14. Class 12.

Black & Decker Manufacturing Co., The. Towson, Md. Electric drilling sets. 267,336; Aug. 14. Class 23.

Blue Hill Candy Co. (See Catsigianis, Otto P., assignor.)

Boiler Baffle Wall Co., The. (See MacDowell, John A.)

Borgfeldt, Geo., & Co., New York, N. Y. Dolls. 265,088; Aug. 14. Class 22.

Bourjois, Inc., New York, N. Y. Face powder and compacts. 256,443; Aug. 14. Class 6.

Bowler, Richard W., Bellingham, Wash. Waterproof auto top dressing. 268,674; Aug. 14. Class 4.

Brady Manufacturing Co., Detroit, Mich. Portable electric lights. 248,874; Aug. 14. Class 21.

Brake Equipment and Supply Company, Chicago, Ill. Repair parts for air-brake equipment. 259,100; Aug. 14. Class 13.

Brassler Company, The, Newark, N. J. Bracelets, brooches, scarf pins, etc. 260,487; Aug. 14. Class 28.

Bridgeport Bottling Co. Inc., The, Bridgeport, Conn. Maltless beverages and syrups for making the same. 267,830; Aug. 14. Class 45.

Brown, A. & F., Company, The, Elizabethport, N. J. Bibs, bushings, caps, gauges, etc. 267,295; Aug. 14. Class 13.

Burnet Company, The, New York, N. Y. Ground-wood products. 265,138; Aug. 14. Class 1.

Camel Lead, Color & Chemical Products Mfg. Corp., Brooklyn, N. Y. Colors in oil, white lead, and combination white lead. 268,913; Aug. 14. Class 16.

Canton Pure Milk Company, The, Canton, Ohio. Chocolate-flavored milk. 269,082; Aug. 14. Class 46.

Cape Ann Isinglass Company, Boston, Mass. Isinglass. 269,085; Aug. 14. Class 46.

Carr Chain Works Inc., Troy, N. Y. Chains used in hardware and saddlery lines. 269,016; Aug. 14. Class 13.

Carter Dry Goods Co., Louisville, Ky. Hosiery. 268,211; Aug. 14. Class 39.

Catsigianis, Otto P., doing business as Blue Hill Candy Co., assignor to Blue Hill Candy Co., St. Louis, Mo. Candies. 247,260; Aug. 14. Class 46.

Cedar Rapids Bottling Works, Cedar Rapids, Iowa. Ginger ale, root beer, etc. 268,965; Aug. 14. Class 45.

Celanese Corporation of America, New York, N. Y. Dressing robes. 268,676; Aug. 14. Class 39.

Chase-Shawmut Company, The, Newburyport, Mass. Fuses, fuse wire, fuse blocks, etc. 267,539; Aug. 14. Class 21.

Chatham Manufacturing Company, Winston-Salem, N. C. Woolen blankets. 269,047; Aug. 14. Class 42.

Chemische Fabrik Güstrow Dr. Hillringhaus & Dr. Hellmann Aktiengesellschaft, Gustrow, Germany. Yohimbin and other alkaloid or glycosid preparations. 263,072; Aug. 14. Class 6.

Chemische Fabrik Jacobus G. m. b. H., Berlin-Charlottenburg, Germany. Chemical products. 263,860; Aug. 14. Class 6.

Chicago Motor Oil Company, Chicago, Ill. Lubricating oils. 265,778–9; Aug. 14. Class 15.

Chrysler Corporation, Detroit, Mich. Internal-combustion engines. 268,966; Aug. 14. Class 23.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Clarke Paper Company, Wheeling, W. Va. Toilet paper. 268,915; Aug. 14. Class 37.

Cohn & Rosenberger, Inc., New York, N. Y. Pearls, necklaces, bracelets, finger rings, etc. 267,936; Aug. 14. Class 28.

Colortone Company, Inc., The, Milwaukee, Wis. Food colors. 266,850; Aug. 14. Class 6.

Commercial Solvents Corporation, Terre Haute, Ind. Normal butyric aldehyde, synthetic resins, etc. 267,407; Aug. 14. Class 6.

Congoleum-Nairn, Inc., Kearny, N. J. Linoleum and cork carpet. 269,091; Aug. 14. Class 20.

Continental Undergarment Company, New York and Brooklyn, N. Y. Underwear. 268,779; Aug. 14. Class 39.

Costa Brothers, Stockton, Calif. Fresh grapes. 269,092; Aug. 14. Class 46.

Coudurier, Fructus & Descher, Lyon, France. Silk piece goods. 263,587; Aug. 14. Class 42.

Crescent Insulated Wire & Cable Co. Inc., Trenton, N. J. Electric cord. 267,244; Aug. 14. Class 21.

Curtiss Candy Company, The, Chicago, Ill. Chewing gum and candy. 269,095; Aug. 14. Class 46.

Cutler-Hammer Mfg. Co., The, Milwaukee, Wis. Electric motor controllers. 266,917; Aug. 14. Class 21.

Dallas Druggists Syndicate, Dallas, Tex. Medicated foot lotion. 266,358; Aug. 14. Class 6.

Dallas Druggists Syndicate, Dallas, Tex. Medicinal preparation for indigestion, etc. 266,359; Aug. 14. Class 6.

Dallas Druggists Syndicate, Dallas, Tex. Insecticide. 266,360; Aug. 14. Class 6.

Dayton Hosiery Mills, Dayton, Tenn. Knitted hosiery. 268,085; Aug. 14. Class 39.

Demco, Incorporated, Baltimore, Md. Vises and spraying outfits. 265,956; Aug. 14. Class 23.

De Nobili Cigar Company, New York, N. Y. Cigars. 268,147; Aug. 14. Class 17.

Deutsche Linoleum-Werke A.-G., Bietigheim, Germany. Linoleum and products resembling linoleum. 269,186; Aug. 14. Class 20.

Devry Corporation, The, Chicago, Ill. Moving-picture projectors, cameras, etc. 259,713; Aug. 14. Class 26.

Diamond Electric Corporation, Newark, N. J. Electrical equipment. 265,874; Aug. 14. Class 21.

Dorr Company, The, New York, N. Y. Apparatus for the treatment of solids suspended in liquids. 268,491; Aug. 14. Class 23.

Doxakis, Anest, Haynesville, La. Medicinal preparation. 251,179; Aug. 14. Class 6.

Dunbar-Dukate Company, Inc., New Orleans, La. Canned raviolis and oysters. 268,358; Aug. 14. Class 46.

Duplan Silk Corporation, New York, N. Y. Silk and rayon piece goods and mixtures thereof. 269,103; Aug. 14. Class 42.

Dykon Products Company, Eugene, Oreg. Antiseptic. 259,054; Aug. 14. Class 6.

Earle, Marie, Inc., New York, N. Y. Face powder, dusting powder, etc. 267,069; Aug. 14. Class 6.

Elder Mfg. Co., St. Louis, Mo. Shirts and boys' blouses. 268,430; Aug. 14. Class 39.

Emerson Drug Co., Baltimore, Md. Maltless beverage and syrup and concentrates. 268,360; Aug. 14. Class 45.

Eshelman, John W., & Sons, Lancaster, Pa. Corn meal and wheat flour. 259,541; Aug. 14. Class 46.

Federal Cigar Company, Inc., Red Lion, Pa. Cigars. 268,361; Aug. 14. Class 17.

Fenton, Z. H., doing business as Ro-Zell's Laboratories, Des Moines, Iowa. Hair tonic and a liquid preparation for the hair. 265,959; Aug. 14. Class 6.

Flexible Engineering Corporation, New York, N. Y. Gears and pinions. 268,493; Aug. 14. Class 23.

Franks, Louis, doing business as Veleur Toilet Requisites Co., Berkeley, Calif. Hairdressing. 268,367; Aug. 14. Class 6.

Fund, Carl T., doing business as Fund's and C. T. Fund, Chicago, Ill. Candy. 249,965; Aug. 14. Class 46.

Fusco, Ovidio D., Brooklyn, N. Y. Chemical preparation. 263,119; Aug. 14. Class 6.

Garneau & de Bruyn, Inc., New York, N. Y. Canned fish. 259,282; Aug. 14. Class 46.

Gas and Electric Heater Co. (See Bastian-Morley Co.)

Geogia Chemical Works, Augusta, Ga. Fertilizers. 269,110; Aug. 14. Class 10.

Gerré, Inc., New York, N. Y. Astringents, astringent cerates, beauty creams, etc. 267,945; Aug. 14. Class 6.

Giunta, Anthony P., doing business as Giunta Brothers Mfg. Co., Philadelphia, Pa. Fruit presses, fruit and cider crushers, macaroni machines, etc. 267,893; Aug. 14. Class 23.

Goody Nectar Company, Oklahoma City, Okla. Maltless beverages and syrups for making the same. 267,950; Aug. 14. Class 45.

Great Eastern Manufacturing Company, The, Philadelphia, Pa. Overalls. 263,942; Aug. 14. Class 39.

Gretsch, Fred., Mfg. Co., The, New York, N. Y. Ocarinas. 267,651; Aug. 14. Class 36.

Grove, William B., Chambersburg, Pa. Tree bands bearing insecticidal materials. 268,369; Aug. 14. Class 6.

H & H Mineral Water Co. (See Krekler, Albert.)

Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods of silk, cotton, and wool. 264,300; Aug. 14. Class 42.

Hamilton Rubber Manufacturing Company, Trenton, N. J. Rubber hose, rubber packings and belting. 264,517; Aug. 14. Class 35.

Hammarlund Manufacturing Company, Inc., The, New York, N. Y. Electric condensers. 258,634; Aug. 14. Class 21.

Hampshire Paper Company, South Hadley Falls, Mass. Paper and envelopes. 268,603; Aug. 14. Class 37.

Hardaway-Cargill Co., Columbus, Ga. Cane syrup. 267,653; Aug. 14. Class 46.

Henckels, J. A., Solingen, Germany. Knife letter openers. 266,931; Aug. 14. Class 23.

Hendrie, Harold, doing business as Hendrie & Co., Montpelier Station, Va. Hair pomade. 251,442; Aug. 14. Class 6.

Henry & Allen, Auburn, N. Y. Rope, cord, and twine. 268,607; Aug. 14. Class 7.

Herlihy, Julia B., Lynbrook, N. Y. Face and hand lotion. 268,097; Aug. 14. Class 6.

Hilborn, J., & W. E. Reed, Inc., New York, N. Y. Hosiery. 267,306; Aug. 14. Class 39.

Hillside Cotton Mills, Lagrange, Ga., and Roanoke, Ala. Trousers and knickers. 254,216; Aug. 14. Class 39.

Hinde, Charles, doing business as Sectionier Company, Wilmington, Calif. Sectional trunks. 266,773; Aug. 14. Class 3.

Hobbs, Robert F., Inc., Beverly, N. J. Wall paper. 269,119; Aug. 14. Class 37.

Hoberg Paper and Fibre Company, Green Bay, Wis. Toilet paper, paper towels and napkins. 266,536–7; Aug. 14. Class 37.

Houde Engineering Corporation, Buffalo, N. Y. Shock absorbers. 268,693–4; Aug. 14. Class 19.

Houghton, E. F., & Co., Philadelphia, Pa. Compounds for processing and tanning leather. 268,441; Aug. 14. Class 6.

Houston Engineers, Houston, Tex. Apparatus for ascertaining the quantity and quality of fluid in an earth stratum in a well bore. 237,604; Aug. 14. Class 26.

Hoyle, Joshua, & Sons, Ltd. Inc., New York, N. Y. Children's dresses. 268,445; Aug. 14. Class 39.

Hudson Manufacturing Co., Minneapolis, Minn. Sprayers and spraying attachments. 267,121; Aug. 14. Class 23.

Huffman, W. F., Printing Company, Wisconsin Rapids, Wis. Magazine. 262,804; Aug. 14. Class 38.

Hupp Motor Car Corporation, Detroit, Mich. Used automobiles. 267,420; Aug. 14. Class 19.

Impactograph Corporation. (See Baskerville, John B., assignor.)

Indian Herb Medicine Co. (See Pinto, Joe.)

Initialit, Inc., Chicago, Ill. Leather key cases, letter cases, etc. 261,817; Aug. 14. Class 3.

International Paper Company, New York, N. Y. Kraft paper. 262,308; Aug. 14. Class 37.

Internationale Feuerlöscher-gesellschaft mit beschränkter Haftung, Berlin-Charlottenburg, Germany. Portable fire extinguishers. 252,847; Aug. 14. Class 23.

International Time Recording Company of New York, Endicott, N. Y. Locks. 267,961; Aug. 14. Class 25.

Jeffreys, George A., doing business as Jeffreys Laboratories, Calcium, N. Y. Disinfectant and antiseptic. 266,817; Aug. 14. Class 6.

Junior Wheel Goods Corporation, Kokomo, Ind. Scooters, kiddie cars, etc. 250,997; Aug. 14. Class 22.

Kabahka, John, doing business as Teutonia Eye Salve Co., Buffalo, N. Y. Eye salve. 263,475; Aug. 14. Class 6.

Kauffman, Jacob, New York, N. Y. Paper sputum cups. 267,658; Aug. 14. Class 44.

Kayser, Julius, & Co., New York, N. Y. Hosiery. 268,447; Aug. 14. Class 39.

Kelley-Clarke Co., Seattle, Wash. Canned salmon. 269,053; Aug. 14. Class 46.

Kelley Island Lime and Transport Company, The, Cleveland, Ohio. Lime. 267,775; Aug. 14. Class 12.

Kemitex Products Company, The, Akron, Ohio. Automobile sun and storm curtains. 240,863; Aug. 14. Class 19.

Kingsway Corporation, The, Tampa, Fla. Fruit juices. 259,961; Aug. 14. Class 45.

Kisco Boiler & Engineering Company, St. Louis, Mo. Boilers and ventilating fans. 267,129; Aug. 14. Class 24.

Kitchlew, Mohammed I., Chicago, Ill. Perfume. 244,777; Aug. 14. Class 6.

Klinkerfues Bros. Co., St. Paul, Minn. Men's overalls and jackets. 268,870; Aug. 14. Class 39.

Kopple, Morris D., New York, N. Y. Automatic machinery. 254,354; Aug. 14. Class 23.

Koseki, Torasnburo, Tokyo, Japan. Medicines for treatment of the liver. 250,923; Aug. 14. Class 6.

Krekler, Albert, doing business as H & H Mineral Water Co., Clinton, Ind. Mineral water. 268,163; Aug. 14. Class 45.

Lantz, Benjamin O., Oak Park, Ill. Golf clubs. 267,131; Aug. 14. Class 22.

Lee-O-Electric Mfg. Co., Inc., Monroe, Mich. Electric cigar lighters. 267,595; Aug. 14. Class 21.

Leonardi, S. B., & Co. Inc., New Rochelle, N. Y. Preparations. 266,939; Aug. 14. Class 6.

Lesher, Whitman & Co., Inc., New York, N. Y. Piece goods. 269,126; Aug. 14. Class 42.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Lind, John E., Washington, D. C. Telephone memorandum support. 237,241; Aug. 14. Class 37.
Lite Ray Utilities Corporation, also doing business as Lite-Rays Cooker Co., Plainfield, N. J. Electric cookers and bakers. 265,668; Aug. 14. Class 21.
Locke Insulator Corporation, Baltimore, Md. Insulator-supporting pins. 263,274; Aug. 14. Class 21.
Lore, Joseph, Bayonne, N. J. Medicine. 261,822; Aug. 14. Class 6.
Love, J. H., doing business as Love Bottling Co., Pawhuska, Okla. Maltless beverages. 266,674; Aug. 14. Class 45.
Lucas, John, & Co., Inc., Philadelphia, Pa. Paints, stains, varnishes, etc. 264,033; Aug. 14. Class 16.
Lynne Arley, Inc., New York, N. Y. Appliances for stimulating the skin and muscular tissues. 260,395; Aug. 14. Class 44.
MacDowell, John A., doing business as The Boiler Baffle Wall Co., Columbus, Ohio. Baffle-wall structures. 268,047; Aug. 14. Class 34.
MacKenzie, Robt. F., Co., The, Cleveland, Ohio. Candy. 268,872; Aug. 14. Class 46.
Magill-Weinsheimer Company, Chicago, Ill. Advertising posters. 265,733; Aug. 14. Class 38.
Margolis, Jack, Waterbury, Conn. Chemical bleaching preparation. 268,552; Aug. 14. Class 6.
May Department Stores Company, The, St. Louis, Mo. Razor blades. 268,875; Aug. 14. Class 23.
McCafferty, James A., & Sons Manufacturing Company, Inc., also doing business as Roebling Color Works, Brooklyn, N. Y. Paints. 262,475; Aug. 14. Class 16.
McDermott & Short, New York, N. Y. Hosiery. 268,289–90; Aug. 14. Class 39.
Miller, L., & Sons, Inc., Long Island City, N. Y. Traveling bags, trunks, etc. 257,690; Aug. 14. Class 3.
Milton Jewelry Company, Inc., New York, N. Y. Bracelets, brooches, carrings, etc. 267,850; Aug. 14. Class 28.
Mineralac Laboratories, Brooklyn, N. Y. Medical preparation. 267,715; Aug. 14. Class 6.
Mitchell, Allen R., & Son, Philadelphia, Pa. Woolen and worsted goods and combinations in the piece. 268,457; Aug. 14. Class 42.
Mitchell, Allen R., & Son, Philadelphia, Pa. Woolen and worsted goods and combinations thereof in the piece. 269,132; Aug. 14. Class 42.
Monarch Cement Company, The, Humboldt, Kans. Cement. 252,722; Aug. 14. Class 12.
Moody, Maud E., Austin, Tex. Blank book for family records. 266,342; Aug. 14. Class 37.
Moret Parfumeur. (See Peoples Drug Stores, Inc.)
Morrison, E. A., Inc., Los Angeles, Calif. Canned fruits, vegetables, and dried fruits. 269,134; Aug. 14. Class 46.
Mulkey Salt Co., Detroit, Mich. Salt. 268,623; Aug. 14. Class 6.
N.-D.-N. Products Co., Buffalo, N. Y. Preparation for removing carbon from internal-combustion engines, etc. 267,203; Aug. 14. Class 6.
Naamlooze Venootschap International Perfumery Company, Amsterdam, Netherlands. Soaps. 268,381; Aug. 14. Class 4.
National Bank Supply Co., The, Milwaukee, Wis. Typewriter ribbons and carbon paper. 268,555; Aug. 14. Class 11.
New York Bed Spring Mfg. Co., Detroit, Mich. Beds, bed springs, couches, etc. 261,278; Aug. 14. Class 32.
Nodusto Manufacturing Co. (See Orchard, Mary E.)
Oakite Products, Inc., New York, N. Y. Chemical compound. 265,680; Aug. 14. Class 6.
Occidental Seed Company, Salt Lake City, Utah. Field seeds and seed grains. 226,366; Aug. 14. Class 1.
Offesh, Thomas E., Altoona, Pa. Cigarettes. 269,054; Aug. 14. Class 17.
Old Trusty Dog Food Company, Needham Heights, Mass. Dog food. 267,448; Aug. 14. Class 46.
Orange Mutual Citrus Association, Orange, Calif. Fresh citrus fruits. 269,140; Aug. 14. Class 46.
Orchard, Mary E., doing business as Nodusto Manufacturing Co., Rochester, N. Y. Paper covers. 268,627; Aug. 14. Class 37.
Ostrow-Relman Silk Corporation, New York, N. Y. Silk piece goods. 265,288; Aug. 14. Class 42.
Palmolive-Peet Company, The, Chicago, Ill. Facial creams. 262,766–7; Aug. 14. Class 6.
Peabody, Henry W. & Co., New York, N. Y. Olive oil. 269,035; Aug. 14. Class 46.
Peerless Products Corporation, Clearwater, Fla. Liquid preparation for refinishing leather. 249,675; Aug. 14. Class 4.
Pendleton Woolen Mills, Portland, Oreg. Woolen blankets. 268,386; Aug. 14. Class 42.
Peoples Drug Stores, Inc., doing business as Moret Parfumeur, Washington, D. C. Cosmetics. 265,007; Aug. 14. Class 6.
Peoples Drug Stores, Inc., doing business as Moret Parfumeur, Washington, D. C. Compacts. 265,008; Aug. 14. Class 6.
Peoples Opinion Printing Co., Valley City, N. Dak. Weekly publication. 267,273; Aug. 14. Class 38.
Philfuels Company, Bartlesville, Okla. Liquefied industrial gases. 267,144; Aug. 14. Class 6.
Pilot Electric Manufacturing Co. Inc., The, Brooklyn, N. Y. Audiofrequency and radiofrequency amplification and detector units for radio receiving apparatus. 259,132; Aug. 14. Class 21.
Pinaud Incorporated, New York, N. Y. Perfumed toilet waters. 264,191–2; Aug. 14. Class 6.
Pinto, Joe, doing business as Indian Herb Medicine Co., Gary, Ind. Medicine. 266,746; Aug. 14. Class 6.
Pioneer Cooperage Co., St. Louis, Mo. Cooperage. 267,601–2; Aug. 14. Class 2.
Piper, A. B., Company, Inc., New York, N. Y. Topcoats and overcoats. 268,388; Aug. 14. Class 39.
Pippen, Enassie, Pontiac, Mich. Hair tonic, vanishing and cold cream. 259,072; Aug. 14. Class 6.
Porcela-Radax Co., Pittsburgh, Pa. Drainpipe solvents. 267,901; Aug. 14. Class 6.
Presto Signal Company, The, San Francisco, Calif. Mechanical direction indicators for motor vehicles. 264,048; Aug. 14. Class 23.
Quix Inc., New York, N. Y. Preparation to stop runs in hosiery. 268,811; Aug. 14. Class 6.
Richter, F. Ad., & Co. of New York, Brooklyn, N. Y. Liniment. 268,307; Aug. 14. Class 6.
Rinshed-Mason Co., Detroit, Mich. Paints, paint enamels, varnishes, etc. 267,859–60; Aug. 14. Class 16.
Roebling Color Works. (See McCafferty, James A., & Sons Manufacturing Company, Inc.)
Rosen, Rosie, doing business as B. Rosen, New York, N. Y. Infants' bath robes and buntings. 267,012; Aug. 14. Class 39.
Ro-Zell's Laboratories. (See Fenton, Z. H.)
Ruffio et Fils, Inc., New York, N. Y. Plastic mixture. 268,514; Aug. 14. Class 6.
Rumford Chemical Works, Providence, R. I. Periodicals. 267,013; Aug. 14. Class 38.
St. Paul Bottling Company, St. Paul, Minn. Maltless beverages. 268,752; Aug. 14. Class 45.
Sallan Inc., Detroit, Mich. Finger rings. 236,893; Aug. 14; Class 28.
Salmons, Chapman H., Dunlow, W. Va. Liniment. 251,688; Aug. 14. Class 6.
Sanitarium Equipment Company, Battle Creek, Mich. Exercising machines. 265,502; Aug. 14. Class 44.
Sanitarium Equipment Company, Battle Creek, Mich. Massaging or mechanical exercising machines. 267,725; Aug. 14. Class 44.
Santaella, A., & Co., Inc., New York, N. Y. Cigars. 268,753; Aug. 14. Class 17.
Schmidt, Molly, doing business as M. Schmidt, Auburn, Me. Liniment. 267,726; Aug. 14. Class 6.
Schulz, M., Co., Chicago, Ill. Reproducing grand pianos. 268,115; Aug. 14. Class 36.
Scull, William S., Company, Camden, N. J. Coffee. 269,066; Aug. 14. Class 46.
Sectionier Company. (See Hinde, Charles.)
Seidman & Cohan, Inc., New York, N. Y. Finger rings, bracelets, lavaliers, ornamental pins. 268,175; Aug. 14. Class 28.
Seichow and Righter Co., Brooklyn, N. Y. Card games. 263,671; Aug. 14. Class 22.
Sklar, J., Manufacturing Co., New York, N. Y. Surgical and dental instruments. 260,761; Aug. 14. Class 44.
Smith, D. B., & Company., Inc., Utica, N. Y. Hand and power operated sprayers, spray pumps, etc. 266,832; Aug. 14. Class 23.
Smith-Junior Company, Inc., Rochester, N. Y. Maltless syrups and flavorings. 267,865–8; Aug. 14. Class 45.
Smith Morris Inc., New York, N. Y. Neckties. 267,212; Aug. 14. Class 39.
Spang Novelty Corporation, New York, N. Y. Base-metal containers for cigarettes. 266,834; Aug. 14. Class 8.
Spector, Joseph, New York, N. Y. Safes and metal filing cabinets and closets. 263,835; Aug. 14. Class 25.
Stamford Wall Paper Company, Incorporated, Stamford, Conn. Wall paper. 267,323; Aug. 14. Class 37.
Standard Cigar Company, Pittsburgh, Pa. Cigars. 269,041; Aug. 14. Class 17.
Standard Neckwear Company, Boston, Mass. Neckties, scarfs, and cravats. 268,564; Aug. 14. Class 39.
Standard Products Co., Jacksonville, Fla. Liniment. 267,808; Aug. 14. Class 6.
Standard Rice Company, Inc., Houston, Tex. Rice flakes. 266,564; Aug. 14. Class 46.
Stanley Works, The, New Britain, Conn. Window-sash fasteners, latches, bolts, etc. 268,520; Aug. 14. Class 25.
Steelcraft Coverator Co., Inc., Brooklyn and New York, N. Y. Radiator enclosures. 267,217; Aug. 14. Class 32.
Steen, E., & Bro., Baltimore, Md. Cereal products. 267,601–2; Aug. 14. Class 2.
Strathmore Paper Company, Mittineague, Mass. Paper. 263,233; Aug. 14. Class 37.
Stroock, S., & Co., Inc., New York, N. Y. Llama wool, wool, and alpaca piece goods or combinations thereof. 267,397; Aug. 14. Class 42.
Surface Combustion Company, Inc., The, Toledo, Ohio. Industrial gas and oil heating furnaces and parts therefor. 266,838; Aug. 14. Class 34.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Swan-Myers Company, Indianapolis, Ind. Calcium guaiacol sulphonate. 267,809; Aug. 14. Class 6.
Swift Canadian Company, Limited, Toronto, Ontario, Canada. Bacon. 267,873; Aug. 14. Class 46.
Tau Kappa Epsilon Fraternity, Lombard, Ill. Publication. 268,324; Aug. 14. Class 38.
Teutonia Eye Salve Co. (See Kahabka, John.)
Tiffany-Stahl Productions, Inc., New York, N. Y. Moving pictures. 266,178; Aug. 14. Class 26.
Tishman, Maurice, New York, N. Y. Mountings for jewelry. 260,780; Aug. 14. Class 28.
Toledo Scale Company, Toledo, Ohio. Weighing scales and machines, counting machines, etc. 266,057; Aug. 14. Class 26.
Trojan Products & Mfg. Co., Chicago, Ill. Mineral cleaners. 252,746; Aug. 14. Class 4.
Troy Chemical Co., Inc., Binghamton, N. Y. Liniment. 266,899; Aug. 14. Class 6.
Turmel, Marguerite, Co. (See Valligny, Marguerite T.)
Uff, Ernest, Chester, Pa. Beam heads. 268,257; Aug. 14. Class 23.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Aprons. 268,345; Aug. 14. Class 39.
Union Company, Columbus, Ohio. Boys' suits. 268,712; Aug. 14. Class 39.
United Chicle Company, The, Toledo, Ohio. Chewing gum. 267,165; Aug. 14. Class 46.
United States Glass Company, Pittsburgh, Pa. Glass tableware. 259,033. Aug. 14. Class 33.
Universal Road Machinery Co., Kingston, N. Y. Road-building and quarry equipment. 263,568; Aug. 14. Class 23.
Utah Electric Radio Company, Salt Lake City, Utah. Radio receiving sets and parts thereof. 260,249; Aug. 14. Class 21.
Valligny, Marguerite T., doing business as Marguerite Turmel Co., New York, N. Y. Hair dyes and restorers. 267,676; Aug. 14. Class 6.
Vanity Fair Silk Mills, Reading, Pa. Cloth in the piece. 268,125; Aug. 14. Class 42.
Veleur Toilet Requisites Co. (See Franks, Louis.)
Vertex Hosiery Mills, Inc., Weissport, Pa. Hosiery. 268,190; Aug. 14. Class 39.
Villamil & Gonzalez, Buenos Aires, Argentina. Cotton piece goods. 257,949; Aug. 14. Class 42.
Wagner, Glinther, Hanover, Germany. Water color for printing from wood blocks and linoleum cuts. 263,572; Aug. 14. Class 16.
Wales Novelties Corporation, New York, N. Y. Friction cigar and cigarette lighters. 267,168; Aug. 14. Class 34.
Walker, George L., doing business as The G. L. Walker Company, Easton, Md. Candy. 245,875; Aug. 14. Class 46.
Watson, C. D. & R. W., Joplin, Mo. Chocolate-covered potato chips. 261,155; Aug. 14. Class 46.
Weit & Sons Paper Company, Detroit, Mich. Building and insulating papers. 264,857; Aug. 14. Class 12.
West, Allen L., New York, N. Y. Fabrics. 268,723; Aug. 14. Class 42.
Weyerhaeuser Forest Products, St. Paul, Minn. Lumber. 266,409; Aug. 14. Class 12.
Whitney-Eckstein Seed Co., Buffalo, N. Y. Seeds. 267,881–2; Aug. 14. Class 1.
Widiar Company, The, Cleveland, Ohio. Pickles, condiments. 264,624; Aug. 14. Class 46.
Wilcox, H. F., Oil & Gas Company, Tulsa, Okla. Gasoline, crude oil, fuel oil, etc. 266,290; Aug. 14. Class 15.
Williams, Ernest W., Abington, Va. Cream to be used after shaving. 266,698; Aug. 14. Class 6.
Wilson, H. A., Company, Newark, N. J. Finger rings. 267,915; Aug. 14. Class 28.
Women's Wear Company, New York, N. Y. Title for publication section. 263,526; Aug. 14. Class 38.
Younglove Grocery Co., Tacoma, Wash. Canned peas. 268,832; Aug. 14. Class 46.
Z. B. Yarn Mills, Union City, N. J. Yarns and threads. 269,044–5; Aug. 14. Class 43.
Zimmer Sweeping Compound Co., Minneapolis, Minn. Sweeping compound. 268,476; Aug. 14. Class 4.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Cellulose wadding. National Cellulose Corporation. 245,370; Aug. 14; Serial No. 263,509; published May 29, 1928.
Chamois. Allied Industrial Products Company. 245,486; Aug. 14; Serial No. 259,789; published May 22, 1928.
Chamois. E. Mayer. 245,425; Aug. 14; Serial No. 263,329; published May 22, 1928.
Clay. Permanently-plastic modeling. American Art Clay Company. 245,384; Aug. 14; Serial No. 262,688; published May 8, 1928.
Coal. Delaware, Lackawanna & Western Coal Company. 245,442; Aug. 14; Serial No. 261,799; published Apr. 24, 1928.
Coal. Haddock Mining Company. 245,358; Aug. 14; Serial No. 261,190; published May 8, 1928.
Coal. Ives Ice and Coal Company. 245,360; Aug. 14; Serial No. 261,062; published Apr. 24, 1928.
Coal. Leavell Coal Company. 245,535; Aug. 14; Serial No. 258,417; published Apr. 17, 1928.
Coal. Masteller Coal Company. 245,376; Aug. 14; Serial No. 262,813; published May 22, 1928.
Coal. W. N. Willis. 245,575; Aug. 14; Serial No. 258,156; published Apr. 17, 1928.
Coal. Bituminous. Ringgold Coal Company. 245,586; Aug. 14; Serial No. 250,640; published May 1, 1928.
Coal. Bituminous. Western Coal & Coke Co. 245,385; Aug. 14; Serial No. 262,684; published May 8, 1928.
Compounds. P. F. Hermann. 245,364; Aug. 14; Serial No. 261,570; published May 15, 1928.
Furs, pelts, hides, etc. Lustria Chapal Fils. 245,479; Aug. 14; Serial No. 260,060; published May 22, 1928.
Goods manufactured from india rubber. Dr. Heinr. Traun & Söhne, vormals Harburger Gummi-Kamm-Compagnie. 245,465; Aug. 14; Serial No. 262,976; published May 15, 1928.
Grapevines. A. T. Keister. 245,407; Aug. 14; Serial No. 262,465; published May 22, 1928.
Grit for poultry. Edge Hill Silica Rock Co. 69,844; renewed July 14, 1928.
Leather. Fried-Lang Leather Co. 245,511; Aug. 14; Serial No. 227,736; published Apr. 24, 1928.
Leather, Sole. Lichtenberger Ferguson Company. 245,522; Aug. 14; Serial No. 244,780; published May 22, 1928.
Leather, Sole. United States Leather Selling Corporation. 245,413–5; Aug. 14; Serial Nos. 262,383–5; published May 1, 1928.
Leathers. Ohio Leather Company. 245,386; Aug. 14; Serial No. 262,624; published May 8, 1928.
Plastic modeling material. Milton Bradley Company. 245,422; Aug. 14; Serial No. 262,112; published May 1, 1928.
Rabbits, rabbit skins, etc. Brokaw Fur and Rabbit Club Inc. 245,436; Aug. 14; Serial No. 261,939; published May 29, 1928.
Sawdust, Specially-prepared. M. H. Glassman. 245,472; Aug. 14; Serial No. 260,443; published May 22, 1928.
Seed, Garden. Northrup, King & Co. 245,417; Aug. 14; Serial No. 262,323; published May 15, 1928.
Seeds. Rudy-Patrick Seed Company. 245,538; Aug. 14; Serial No. 258,194; published Mar. 20, 1928.
Seeds, bulbs, plants, and moss. American Bulb Company. 245,464; Aug. 14; Serial No. 262,993; published May 22, 1928.
Skins, Dyed. American Fur Dyeing Co.—Successful Caracul Dyers Inc. 245,524; Serial No. 243,991; published May 1, 1928.
Soil, Plant. Hyper-Humus Company. 245,373; Aug. 14; Serial No. 263,404; published May 29, 1928.
Sponges and chamois. E. Mayer. 245,374; Aug. 14; Serial No. 263,330; published May 22, 1928.
Wadding, Cellulose. Veldown Company. 245,347; Aug. 14; Serial No. 261,406; published Apr. 24, 1928.
Wool, artificial straw, artificial horsehair, etc., Raw. N. V. Nederlandsche Kunstzijdefabriek. 245,596; Aug. 14; Serial No. 254,146; published Apr. 24, 1928.
Wool, furs, etc. Consolidated Rendering Company. 245,468; Aug. 14; Serial No. 260,806; published Apr. 24, 1928.

CLASS 2.

Bags, Paper. Union Bag & Paper Company. 71,217; renewed Nov. 10, 1928.

CLASS 3.

Bags and pocketbooks. Bedell Company. 245,529; Aug. 14; Serial No. 240,472; published May 22, 1928.
Folders for pocket check protectors. Rossid Manufacturing Corporation. 245,520; Aug. 14; Serial No. 245,299; published May 29, 1928.
Leather goods. Columbia Mfg. Co. 245,485; Aug. 14; Serial No. 259,844; published May 29, 1928.

CLASS 4.

Soap. Goodhair Remedy Company. 70,332; renewed Aug. 25, 1928.
Soap, Medicinal. G. F. Smith. 71,878; renewed Dec. 22, 1928.

CLASS 5.

Adhesive paste. Carter's Ink Company. 245,565; Aug. 14; Serial No. 263,688; published May 22, 1928.
Glue, Liquid. Essex Gelatine Company. 245,497; Aug. 14; Serial No. 264,368; published May 29, 1928.

CLASS 6.

Astringents, astringent cerates, bleach creams, etc. A. P. Babcock Company. 245,382; Aug. 14; Serial No. 262,788; published May 15, 1928.
Astringents, astringent cerates, bleach creams, etc. Misses Baetz. 245,461; Aug. 14; Serial No. 263,024; published May 29, 1928.
Bate, tanner's oils, etc., Tanner's. Martin Dennis Company. 245,445; Aug. 14; Serial No. 263,828; published May 15, 1928.
Chemical compound for cleansing straw. M. J. Bebb. 69,908; renewed July 14, 1928.
Chemical product. Society of Chemical Industry in Basle. 245,502; Aug. 14; Serial No. 264,124; published May 29, 1928.
Chemical solvents. Felton Chemical Company. 245,504; Aug. 14; Serial No. 264,093; published May 22, 1928.
Composition for hair treatment. W. A. Miller. 245,395; Aug. 14; Serial No. 263,661; published May 15, 1928.
Compounds for the treatment of corns. Stevens-Wiley Mfg. Co. 245,408; Aug. 14; Serial No. 262,428; published May 22, 1928.
Cream or paste for the skin, Hygienic. Lesquendieu Incorporated. 245,527; Aug. 14; Serial No. 242,433; published May 29, 1928.
Cream, Reducing. L. A. Turin. 245,398; Aug. 14; Serial No. 263,567; published May 15, 1928.
Detergent. H. L. Baer. 245,428; Aug. 14; Serial No. 263,193; published May 29, 1928.
Digestant, Antacid. BiSoDol Co. 245,380; Aug. 14; Serial No. 262,791; published May 22, 1928.
Eau de Cologne water, perfumery, shampoo, etc. P. P. Millbens. 245,510; Aug. 14; Serial No. 229,121; published May 29, 1928.
Essences of perfumes, essences for perfumery materials, etc. A. L. Van Ameringen. 245,446; Aug. 14; Serial No. 263,794; published May 22, 1928.
Fluid. Everlite Products Corporation. 245,378; Aug. 14; Serial No. 262,801; published May 29, 1928.
Fluid. Rapid Manufacturing Company. 245,439; Aug. 14; Serial No. 261,908; published May 29, 1928.
Gargle. C. M. Jefferson. 245,449; Aug. 14; Serial No. 263,764; published May 22, 1928.
Inhalant. Adson Chemical Co. 245,452; Aug. 14; Serial No. 263,676; published May 22, 1928.
Inhalant. G. W. McDonald. 245,503; Aug. 14; Serial No. 264,114; published May 29, 1928.
Insecticide. Michelangelo Pacella, M. D. 245,554; Aug. 14; 258,827; published May 29, 1928.
Laxative. J. J. Weir. 245,579; Aug. 14; Serial No. 251,804; published May 29, 1928.
Laxatives. A. R. Martino. 245,448; Aug. 14; Serial No. 263,772; published May 22, 1928.
Laxatives. Nutlax Corporation. 245,506; Aug. 14; Serial No. 263,886; published May 22, 1928.
Liniment. E. C. Hull. 245,561; Aug. 14; Serial No. 256,627; published Jan. 10, 1928.
Liquid injection for treatment of leprosy. A. Benchetrit. 245,541; Aug. 14; Serial No. 257,768; published May 15, 1928.
Lotion, Aromatic. Frank E. Harris Co. Inc. 245,411; Aug. 14; Serial No. 262,401; published May 15, 1928.
Lotion, Foot. F. P. Beard. 245,450; Aug. 14; Serial No. 263,743; published May 29, 1928.
Magnesium hydroxide. McKesson & Robbins, Incorporated. 245,383; Aug. 14; Serial No. 262,744; published May 29, 1928.
Medical preparation. E. Gelifias. 245,560; Aug. 14; Serial No. 256,668; published May 29, 1928.
Medicinal compounds and antacid laxative. Nature Herb Co. Inc. 245,387; Aug. 14; Serial No. 262,620; published May 22, 1928.
Medicinal preparation. Chief Remedy Company. 245,525; Aug. 14; Serial No. 243,749; published May 29, 1928.
Medicinal preparation. C. Cons. 245,390; Aug. 14; Serial No. 262,550; published May 22, 1928.
Medicinal preparations. Food Balance Corporation. 245,440; Aug. 14; Serial No. 261,871; published May 29, 1928.
Medicine. W. D. Bowen. 71,988. renewed Dec. 29, 1928.
Medicine. H. E. Coupland. 245,459; Aug. 14; Serial No. 263,036; published May 29, 1928.
Medicine for ailments of the bladder. F. A. Richter. 71,629; renewed Dec. 8, 1928.
Medicine to aid in digestion of foods. L. M. Williams. 245,516; Aug. 14; Serial No. 249,312; published July 12, 1827.
Medicines and pharmaceutical preparations. W. V. MacGill. 245,530; Aug. 14; Serial No. 234,141; published May 29, 1928.
Oil and preparation. D. S. Brougher. 245,432; Aug. 14; Serial No. 263,069; published May 29, 1928.
Ointment. McKesson & Robbins, Incorporated. 245,570–1; Aug. 14; Serial Nos. 264,468–9; published May 29, 1928.
Ointments and salves. E. A. Smith. 245,590; Apg. 14; Serial No. 254,693; published Jan. 10, 1928.
Pastilles, Throat. Rougier Frères, Incorporated. 245,409; Aug. 14; Serial No. 262,415; published May 15, 1928.
Perfumes, essences of perfumes, etc. A. L. Van Ameringen. 245,404; Aug. 14; Serial No. 263,795; published May 22, 1928.
Pills, laxatives, tonics, etc. Foster-Milburn Co. 245,552; Aug. 14; Serial No. 259,058; published May 22, 1928.
Pomade, hair tonic, etc., Hair-oil. Zala Perfumery Co. 245,369; Aug. 14; Serial No. 263,529; published May 22, 1928.
Pomades for the hair. Stanard Laboratories, Inc. 245,437–8; Aug. 14; Serial Nos. 261,930–1; published Apr. 24, 1928.
Powder, Douche. M. B. M. Maharon. 245,392; Aug. 14; Serial No. 262,522; published May 29, 1928.
Powder, Soluble. A. A. Maillett Co. 245,430; Aug. 14; Serial No. 263,163; published May 15, 1928.
Powder, Toilet. Pinaud Incorporated. 245,476; Aug. 14; Serial No. 260,305; published May 22, 1928.
Preparation. Ferro Medicine Co. 245,555; Aug. 14; Serial No. 258,807; published May 22, 1928.
Preparation. A. Pugh. 245,431; Aug. 14; Serial No. 263,101; published May 22, 1928.
Preparation. A. H. West. 245,496; Aug. 14; Serial No. 264,399; published May 29, 1928.
Preparation designed to eradicate freckles, spots, etc. Dnus Products Company. 245,393; Aug 14; Serial No. 262,512; published May 15, 1928.
Preparation for stimulating metalbolism. "Cristallo" A. G. 245,397; Aug. 14; Serial No. 263,590; published May 29, 1928.
Preparations, Ethereal. McKesson & Robbins. 32,275; renewed Dec. 20, 1928.
Quinine and bismuth, Double iodure of. Les E'ablissements Poulenc Freres. 245,451; Aug. 14; Serial No. 263,710; published May 29, 1928.
Remedy for the nerves and nervous disorders. Dr. S. A. Richmond Nervine Co. 70,160; renewed Aug. 4, 1928.
Sachets and wave-setting preparations. Eugene Ltd. 245,466; Aug. 14; Serial No. 262,024; published May 22, 1928.
Salt. Independent Salt Company. 245,531; Aug. 14; Serial No. 237,737; published May 15, 1928.
Salve, catarrh balm, etc., Healing. C. Varnell. 245,444; Aug. 14; Serial No. 262,003; published May 22, 1928.
Shampoo, scalp, and hair treatment. B. L. Barber. 245,350; Aug. 14; Serial No. 261,338; published May 29, 1928.
Shampoos. O. Leuschner. 245,426; Aug. 14; Serial No. 263,323; published May 22, 1928.
Sprays, Nose and throat. McKesson & Robbins, Incorporated. 245,494; Aug. 14; Serial No. 264,455; published May 29, 1928.
Stomachic. H. Underberg. 245,582–4; Aug. 14; Serial Nos. 250,771–3; published May 22, 1928.
Stomachic. H. Underberg. 245,585; Aug. 14; Serial No. 250,770; published May 22, 1928.
Tablets. McKesson & Robbins, Incorporated. 245,562; Aug. 14; Serial No. 264,462; published May 29, 1928.
Tablets, Cold and grippe. McKesson & Robbins, Incorporated. 245,488–9; Aug. 14; Serial Nos. 264,460–1; published May 29, 1928.
Tablets, Edible. G. A. Post. 245,598; Aug. 14; Serial No. 253,769; published May 22, 1928.
Throat spray or gargle. McKesson & Robbins, Incorporated. 245,574; Aug. 14; Serial No. 264,465; published May 29, 1928.
Toilet articles. Bergdorf & Goodman Company. 245,423; Aug. 14; Serial No. 262,051; published Apr. 24, 1928.
Toilet articles. Bergdorf Goodman Company. 245,424; Aug. 14; Serial No. 262,050; published May 8, 1928.
Toilet goods and preparations. E. Becktel. 245,381; Aug. 14; Serial No. 262,789; published May 29, 1928.
Tonic, Hair. Odell Company. 245,569; Aug. 14; Serial No. 264,471; published May 29, 1928.
Tonic, Liquid. Dr. Anna Albers. 245,429; Aug. 14; Serial No. 263,190; published May 22, 1928.
Tonic, Nutritive. Bedesee Pharmacal Co. 245,396; Aug. 14; Serial No. 263,634; published May 22, 1928.
Tooth paste. McKesson & Robbins, Incorpora'ed. 245,490–3; Aug. 14; Serial Nos. 264,456–9; published May 29, 1928.
Tooth paste. McKesson & Robbins, Incorporated. 245,572–3; Aug. 14; Serial Nos. 264,466–7; published May 29, 1928.

CLASS 12.

Asbestos board. Asbestos Shingle, Slate & Sheathing Company. 245,366; Aug. 14; Serial No. 261,476; published Apr. 17, 1928.
Asphalt emulsions. G. S. Scott. 245,416; Aug. 14; Serial No. 262,335; published May 1, 1928.
Asphalt paving. Bituminous Construction Company. 245,523; Aug. 14; Serial No. 244,281; published May 15, 1928.
Asphaltic waterproofing materials, etc. J. W. Mortell Co. 245,544; Aug. 14; Serial No. 257,375; published Apr. 24, 1928.
Bituminous compounds. Barber Asphalt Paving Company. 71,862; renewed Dec. 15, 1928.
Blocks, bricks, and tiles, Building. Hudson Fireproof Block Co. 245,577; Aug. 14; Serial No. 251,971; published May 22, 1928.
Blocks, Hollow. A. M. Fairlie. 245,589; Aug. 14; Serial No. 254,842; published May 29, 1928.
Brick, Building. West Penn Brick Company. 245,483; Aug. 14; Serial No. 259,936; published Apr. 24, 1928.
Cement and concrete, Building. Materials, Inc. 245,365; Aug. 14; Serial No. 261,517; published May 15, 1928.
Cement, Furnace. Alfred Fisher Furnaces, Inc. 245,551; Aug. 14; Serial No. 259,192; published May 15, 1928.

Cement, Portland. G. Deroover. 245,474; Aug. 14; Serial No. 260,378; published May 15, 1928.
Cement, Waterproof. Colorado Portland Cement Company. 245,460; Aug. 14; Serial No. 263,035; published May 15, 1928.
Coal tar and asphalt for roofing, etc. Metropolitan Roofing Supplies Company. 245,593–4; Aug. 14; Serial Nos. 254,195–6; published May 1, 1928.
Cork pipe, cork board, and cork tile. Cork Import Corporation. 245,512; Aug. 14; Serial No. 227,396; published May 15, 1928.
Flooring, interior trim, etc., Hardwood. Wisconsin Land & Lumber Co. 245,394; Aug. 14; Serial No. 262,497; published May 22, 1928.
Flooring, panels, doors, etc. B. W. Cadwallader. 245,372; Aug. 14; Serial No. 263,454; published May 22, 1928.
Flooring, Strips for terrazzo. Manhattan Terrazzo Brass Strip Company. 245,595; Aug. 14; Serial No. 254,187; published Apr. 24, 1928.
Insulation material, Thermal. Vorclone Company. 245,591; Aug. 14; Serial No. 254,652; published May 22, 1928.
Lath, Wire. Pittsburgh Steel Company. 245,545; Aug. 14; Serial No. 257,027; published May 29, 1928.
Lime. C. R. Rex. 245,391; Aug. 14; Serial No. 262,529; published May 8, 1928.
Lime, Hydrated and quick. United States Lime Products Corporation. 245,550; Aug. 14; Serial No. 259,264; published Apr. 24, 1928.
Lumber. Fruit Growers Supply Company. 245,418; Aug. 14; Serial No. 262,301; published May 29, 1928.
Metal and felt weather strips. General Weather Strip Company. 245,349; Aug. 14; Serial No. 261,361; published May 1, 1928.
Panels, Moulded and pressed. F. A. Bigler. 245,361; Aug. 14; Serial No. 261,037; published May 8, 1928.
Plaster. California Stucco Products Company. 245,470; Aug. 14; Serial No. 260,554; published Apr. 24, 1928.
Road-building materials. Barrett Company. 245,588; Aug. 14; Serial No. 255,631; published May 8, 1928.
Roofing and bituminous compounds. Barber Asphalt Paving Company. 71,934; renewed Dec. 22, 1928.
Roofing, Slate and asphalt composition. Belknap Hardward & Manufacturing Company. 245,521; Aug. 14; Serial No. 245,325; published May 1, 1928.
Stone, Synthetic. P. Grassi & Co. 245,355; Aug. 14; Serial No. 261,313; published May 1, 1928.
Tile, Decorative. Superior Wall Tile Company. 245,363; Aug. 14; Serial No. 261,593; published May 1, 1928.
Tiles. Rossman Corporation. 245,367; Aug. 14; Serial No. 261,455; published May 1, 1928.
Tiles. Travatex Products Corporation. 245,433; Aug. 14; Serial No. 261,999; published Apr. 24, 1928.

CLASS 13.

Valves and parts thereof. Star Brass Manufacturing Company. 70,085; renewed July 28, 1928.

CLASS 14.

Castings, Metal. Dodge Manufacturing Corporation. 245,508; Aug. 14; Serial No. 205,322; published May 29, 1928.
Sheets, strips, rods, etc., Nonferrous. New Haven Copper Co. 245,453; Aug. 14; Serial No. 263,662; published May 29, 1928.

CLASS 15.

Oils, Lubricating. Sun Company. 70,804; renewed Oct. 6, 1928.

CLASS 16.

Polish, Furniture. Globe-Wernicke Co. 245,471; Aug. 14; Serial No. 260,499; published May 29, 1928.

CLASS 17.

Cigars. Compañia General de Tabacos de Filipinas. 71,285; renewed Nov. 17,1928.

CLASS 19.

Cars, Railway freight and passenger. Union Pacific Railroad Company. 32,036; renewed Oct. 4, 1928.

CLASS 21.

Electric cigar lighters. Premier Electric Company. 245,509; Aug. 14; Serial No. 230,642; published Sept. 20, 1928.

CLASS 22.

Fishing lines. E. J. Martin's Sons. 70,994; renewed Oct. 20, 1928.
Dolls. Geo. Borgfeldt & Co. 245,457; Aug. 14; Serial No. 261,693; published May 29, 1928.

CLASS 23.

Cutlery. D. Peres. 72,302; renewed Jan. 12, 1929.
Loom temples. Draper Company. 70,986; renewed Oct. 20, 1928.
Machinery and parts thereof. Detroit Lubricator Company. 69,785; renewed July 7, 1928.
Saw sets. Henry Disston & Sons, Incorporated. 71,983; renewed Dec. 29, 1928.
Sawing machines, stands, and attachments therefor. National Sewing Machine Company. 32,278–9; renewed Dec. 20, 1928.
Saws. Henry Disston & Sons, Incorporated. 71,982; renewed Dec. 29, 1928.

CLASS 26.

Cameras, moving-picture machines, and films, Photographic. Societe des Etablissements Gaumont. 72,032; renewed Dec. 29, 1928.

CLASS 31.

Refrigerators. Herrick Refrigerator and Cold Storage Company. 70,197–8; renewed Aug. 11, 1928.

CLASS 35.

Tires, Automobile and bicycle. Ajax-Grieb Rubber Company. 71,861; renewed Dec. 15, 1928.

CLASS 37.

Paper, Blotting. Albemarle Paper Manufacturing Company. 72,083; renewed Jan. 5, 1929.

CLASS 39.

Boots and shoes and overshoes. Hood Rubber Co. 72,044; renewed Dec. 29, 1928.
Boots and shoes, Leather. Charles E. Lynch Shoe Mfg. Co. 245,549; Aug. 14; Serial No. 259,286; published May 8, 1928.
Boots, shoes, and slippers. Scheiffele Shoe Manufacturing Company. 70,297; renewed Aug. 18, 1928.
Clothing. Pendleton Woolen Mills. 245,441; Aug. 14; Serial No. 261,833; published May 1, 1928.
Clothing. Printz-Biederman Company. 72,073; renewed Dec. 29, 1928.
Clothing, Men's. Johnson & Goldstein. 245,553; Aug. 14; Serial No. 258,911; published May 8, 1928.
Clothing, Men's outer. International Tailoring Co. 245,455; Aug. 14; Serial No. 261,754; published May 1, 1928.
Coats. Harris Bros. & Mann Inc. 245,580; Aug. 14; Serial No. 251,894; published May 8, 1928.
Coats, suits, negligees, hats, etc., Ladies'. Bettina Inc. 245,421; Aug. 14; Serial No. 262,201; published May 1, 1928.
Corsets. J. Garfinkle. 70,100; renewed July 28, 1928.
Cravats and sweaters. J. Saftlas. 245,402; Aug. 14; Serial No. 262,873; published May 1, 1928.
Dresses. Fraiger Bros. Garment Co. 245,462. Aug. 14; Serial No. 262,998; published May 1, 1928.
Garments, Woolen. Utah Woolen Mills. 245,514; Aug. 14; Serial No. 212,112; published June 15, 1926.
Gloves. B. F. Widman. 245,519; Aug. 14; Serial No. 246,454; published May 8, 1928.
Gloves, Women's. O. C. Hansen Mfg. Co. 245,412; Aug. 14; Serial No. 262,400; published May 1, 1928.
Gowns, frocks, and dresses. H. Frank. 245,537; Aug. 14; Serial No. 258,260; published May 8, 1928.
Hats. Kulehed, Inc. 245,578; Aug. 14; Serial No. 251,911. published May 8, 1928.
Hats, Ladies'. Heim & Nathan. 245,352–4; Aug. 14; Serial No. 261,315–17; published May 1, 1928.
Hose protector. L. Lyons. 245 597; Aug. 14; Serial No. 254,042; published May 8, 1928.
Hosiery. Brooks Hosiery Mills. 245,379; Aug. 14; Serial No. 262,794; published May 1, 1928.
Hosiery. L. Radin. 245,410; Aug. 14; Serial No. 262,413; published May 1, 1928.
Hosiery. Rice-Stix Dry Goods Company. 245,559; Aug. 14; Serial No. 256,835; published May 8, 1928.
Hosiery. Triumph Hosiery Mills. 245 389. Aug. 14; Serial No. 262 579; published May 1, 1928.
Hosiery and underwear. Ottumwa Mercantile Co. 245,458; Aug. 14; Serial No. 261,644; published May 1, 1928.
Hosiery, Cotton lisle, mercerized-silk, fiber, etc. Price-Snapp-Jones Co. 245,434; Aug. 14; Serial No. 261,987; published May 1, 1928.
Hosiery, Silk. Propper Silk Hosiery Mills, Inc. 245,484; Aug. 14; Serial No. 259,872; published Mar. 13, 1928.
Pants and underwear, Men's athletic. National Shirt Shops, Inc. 245,419; Aug. 14; Serial No. 262,243; published May 1, 1928.
Shirts and underwear, Men's. National Shirt Shops, Inc. 245,420; Aug. 14; Serial No. 262,242; published May 1, 1928.
Shirts, pajamas, and smoking jackets, Night. Paragon Company. 71,834; renewed Dec 15, 1928.
Shoes, Leather. Gale Shoe Manufacturing Co. 245,456; Aug. 14; Serial No. 261,750; published May 1, 1928.
Suits, trousers, vests, coats, and overcoats. Fine & Luke. 245,377; Aug. 14; Serial No. 262,802; published May 1, 1928.
Underwear. E. W. Rowe. 245,356; Aug. 14; Serial No. 261,284; published May 1, 1928.
Underwear, shoes, hosiery, etc., Ladies' knitted. McGreevey, Werring & Howell Inc. 245,368; Aug. 14; Serial No. 261,446; published May 1, 1928.
Underwear, sport coats, and shirts. Neely, Harwell & Co. 245,576. Aug. 14; Serial No. 254,643; published May 8, 1928.
Vest, bloomers, knickers, pajamas, etc. Vanity Fair Silk Mills. 245,473; Aug. 14; Serial No. 260,364; published Apr. 10, 1928.

CLASS 42.

Cotton piece goods, Printed. Neuss, Hesslein & Co. 71,452–3; renewed Nov. 24, 1928.

Fabrics, Woven. Hillside Cotton Mills. 245,536; Aug. 14; Serial No. 258,334; published May 29, 1928.
Worsted dress goods. Arlington Mills. 71,955; renewed Dec. 22, 1928.

CLASS 46.

Bakery products and confectionery. National Biscuit Company. 32,301; renewed Dec. 27, 1928.
Biscuit, cake, and crackers. National Biscuit Company. 245,499–500; Aug. 14; Serial Nos. 264,180–1; published May 29, 1928.
Biscuits. Meyer & Lange, Inc. 245,564; Aug. 14; Serial No. 264,731; published May 29, 1928.
Biscuits, crackers, and hard cakes. Southern Biscuit Company. 245,566–7; Aug. 14; Serial Nos. 264,614–5; published May 29, 1928.
Bread. McGavin's Bread, Inc. 245,435; Aug. 14; Serial No. 261,975; published May 22, 1928.
Bread and crackers. W. H. Brooks. 245,463; Aug. 14; Serial No. 262,997; published May 22, 1928.
Bread, Hard. Oscar G. Petterson Company. 245,403; Aug. 14; Serial No. 262,870; published May 22, 1928.
Butter. Hilmer Commission Co. 72,066; renewed Dec. 29, 1928.
Buttermilk. Rieck-McJunkin Dairy Company. 245,348; Aug. 14; Serial No. 261,386; published May 29, 1928.
Cakes and cookies. Golden Bear Cookie Company. 245,359; Aug. 14; Serial No. 261,188; published May 29, 1928.
Cereal food products. Hecker-H-O Company. 245,542; Aug. 14; Serial No. 257,545; published May 22, 1928.
Cereal food products. Hecker-H-O Company. 245,543; Aug. 14; Serial No. 257,543; published May 22, 1928.
Coffee. Allen-Rethemeyer Co. 245,528; Aug. 14; Serial No. 241,459; published Apr. 26, 1927.
Coffee. Vogel Bros. & Co. 70,276; renewed Aug. 18, 1928.
Coffee. Wolfe, McMillan & Co. 32,260; renewed Dec. 20, 1928.
Cornstarch. Corn Products Refining Company. 245,427; Aug. 14; Serial No. 263,200; published May 22, 1928.
Extracts, Flavoring. J. W. Colton Company. 71,815; renewed Dec. 15, 1928.
Feed, Chicken. California Hawaiian Milling Company. 245,371; Aug. 14; Serial No. 263,456; published May 22, 1928.
Feed for stock, Mineral and grain. Miller Products Company. 245,568; Aug. 14; Serial No. 264,598; published May 29, 1928.
Flour, Self-rising. Carr Milling Company. 245,539–40; Aug. 14; Serial Nos. 257,965–6; published May 22, 1928.
Flour, Wheat. J. Allen Smith & Co. 245,547; Aug. 14; Serial No. 259,599; published Apr. 10, 1928.
Flour, Wheat. Ansted & Burk Co. 245,501; Aug. 14; Serial No. 264,133; published May 22, 1928.
Flour, Wheat. Shellabarger Mills & Elevator Company. 245,532–4; Aug. 14; Serial Nos. 258,595–7; published May 22, 1928.
Flour, Wheat. Shellabarger Mills & Elevator Company. 245,558; Aug. 14; Serial No. 258,598; published May 22, 1928.
Flour, Wheat. Walnut Creek Milling Co. 245,498; Aug. 14; Serial No. 264,337; published May 22, 1928.
Food, cod-liver-oil food, etc., Nestling. C. J. Koch. 245,563; Aug. 14; Serial No. 264,993; published May 29, 1928.
Food, Poultry and livestock. R. R. Sawyer. 245,518; Aug. 14; Serial No. 247,214; published Apr. 10, 1928.
Milk, Bottled. Gray-Von Allmen Sanitary Milk Co. 245,526; Aug. 14; Serial No. 243,207; published May 22, 1928.
Noodles, macaroni, etc. E. Dalang & Co. 245,487; Aug. 14; Serial No. 259,763; published Mar. 6, 1928.
Oleomargarine. J. H. Filbert Inc. 245,495; Aug. 14; Serial No. 264,426; published May 29, 1928.
Oranges. California Fruit Growers Exchange. 72,087; renewed Jan. 5, 1929.
Preserves, Fruit. Max Ams, Incorporated. 245,556; Aug. 14; Serial No. 258,713; published May 29, 1928.
Products, Packing-house. Swift and Company. 32,234; renewed Dec. 13, 1928.
Sandwiches. H. H. Clark. 245,587; Aug. 14; Serial No. 250,229; published May 22, 1928.
Sardines. Neuman & Schwiers Co. Inc. 70,961; renewed Oct. 20, 1928.
Wheat breakfast food. Cream of Wheat Company. 245,505; Aug. 14; Serial No. 263,928; published May 22, 1928.
Wheat, Whole-grain. Dant & Atwood. 245,515; Aug. 14; Serial No. 249,314; published May 29, 1928.
Yeast, Grain. National Grain Yeast Corporation. 245,557; Aug. 14; Serial No. 258,645; published May 29, 1928.

CLASS 48.

Beer. M. B. Foster & Sons, Limited. 72,027; renewed Dec. 29, 1928.
Beer. M. B. Foster & Sons, Limited. 71,210; renewed Nov. 10, 1928.

CLASS 50.

Advertising signs illuminated by daylight. G. Hyman. 245,469; Aug. 14; Serial No. 260,684; published May 8, 1928.
Awnings, fixtures, etc. New York Awning Co. Inc. 245,507; Aug. 14; Serial No. 263,883; published May 29, 1928.
Brooders and brooder parts. T. W. Hunter. 245,546; Aug. 14; Serial No. 256,296; published May 1, 1928.
Caps and closure seals for bottles, etc. Aluminum Company of America. 245,388; Aug. 14; Serial No. 262,587; published May 29, 1928.
Cellulose composition, Noninflammable translucent. Max Horn & Bro. 245,375; Aug. 14; Serial No. 262,850; published May 22, 1928.
Cbintzes, leather substitutes, etc. Pyroxylin-glazed. Aspinook Co. 245,400; Aug. 14; Serial No. 262,889; published May 29, 1928.
Coins, Scrip. Osborne Register Company. 245,447; Aug. 14; Serial No. 263,784; published May 29, 1928.
Films, Unsensitized and unexposed. Celluloid Corporation. 245,443; Aug. 14; Serial No. 261,793; published May 8, 1928.
Films, Unsensitized and unexposed. Celluloid Corporation. 245,454; Aug. 14; Serial No. 261,792; published May 8, 1928.
Floor mat, Flexible. Rockwood Manufacturing Company. 245,405; Aug. 14; Serial No. 262,488; published May 8, 1928.
Fly paper. Chemische Fabrik Reutter & Co. 245,477; Aug. 14; Serial No. 260,257; published May 29, 1928.
Fly swatters. F. Lombard. 245,351; Aug. 14; Serial No. 261,322; published May 8, 1928.
Frames, Window-display. F. B. Kelly Co. Inc. 245,513; Aug. 14; Serial No. 226,148; published Apr. 24, 1928.
Incubators and brooders. B. E. Davis. 245,475; Aug. 14; Serial No. 260,427; published May 22, 1928.
Marking pedestrian pathway or such, Device for. Union Tank & Pipe Co. 245,517; Aug. 14; Serial No. 247,505; published Apr. 24, 1928.
Mats for motor vehicles. Cork Manufacturing Co. Ltd. 245,548; Aug. 14; Serial No. 259,355; published May 29, 1928.
Plastic compositions. American Catalin Corp. 245,502; Aug. 14; Serial No. 254,439; published May 29, 1928.
Rubber, Sheet. B. F. Goodrich Company. 245,362; Aug. 14; Serial No. 261,625; published May 22, 1928.
Signs and sign letters, Nonelectrical. N. Schoenthal. 245,357; Aug. 14; Serial No. 261,211; published Apr. 24, 1928.
Signs, Reflecting. Ray-Signs Corporation. 245,399; Aug. 14; Serial No. 262,930; published May 29, 1928.
Table mats. Pioneer Table Mat Company. 245,581; Aug. 14; Serial No. 251,011; published May 29, 1928.
Table pads, Heatproof and waterproof. Green Table Pad Corp. 245,480; Aug. 14; Serial No. 259,956; published May 1, 1928.
Table pads, Heatproof and waterproof. Green Table Pad Corp. 245,481; Aug. 14; Serial No. 259,955; published Apr. 24, 1928.
Table pads, Heatproof and waterproof. Green Table Pad Corp. 245,482; Aug. 14; Serial No. 259,954; published Apr. 17, 1928.
Traps, Beetle. B. Leon. 245,406; Aug. 14; Serial No. 262,469; published May 15, 1928.
Trap setters. Animal Trap Company of America. 245,401; Aug. 14; Serial No. 262,888; published May 15, 1928.
Waterproofed textile fabrics. York Manufacturing Company. 245,467; Aug. 14; Serial No. 260,867; published May 8, 1928.
Woven fabrics of cotton impregnated with pyroxylin solution. Athol Manufacturing Company. 245,478; Aug. 14; Serial No. 260,078; published May 8, 1928.

ALPHABETICAL LIST OF LABELS.

Barred-Rock. For Canned Chicken. Valley Poultry Company. 34,449; Aug. 14.
Beech-Nut Brand Chewing Gum, Fruit Flavor (5). For Chewing Gum. Beech-Nut Packing Company. 34,419; Aug. 14.
Catalina. For Cookies. J. W. Brill. 34,420; Aug. 14.
Chop Suey Brand Genuine Soy Sauce. For Soy Sauce. Oakland Noodle Factory. 34,436; Aug. 14.
Frozen Peanut Bar. For Ice-Cream Bar. Henry W., Inc. 34,430; Aug. 14.
Ghiglione's—Say "Gil-yo-ne." For Foods. A. F. Ghiglione & Sons, Inc. 34,427; Aug. 14.
Gop. For Candy Bars. J. R. Colgan. 34,422; Aug. 14.
H. E. B. For Cough Medicine. L. W. Stail. 34,444; Aug. 14.
Nell Brinkley Hair Net. For Hair Nets. Hayes-Donohue Manufacturing Company. 34,429; Aug. 14
New Yorkers. For Chewing Gum. P. H. Raymer. 34,439; Aug. 14.
Nicotex. For Preparation for Removing Tobacco and Nicotine Stains from the Skin. Nicotex Company. 34,434; Aug. 14.
Noma Electric Candle. For Electric Candle and Wreaths for Decorative Purposes. Noma Electric Corporation. 34,435; Aug. 14.

Oxol. For Germicide Deodorant, Sterilizer Disinfectant, Cleanser, and Bleacher. J. L. Prescott Company. 34,438; Aug. 14.
Packed in Tin Keeps Freshness in. For Food Products. Christopher Mercantile Company. 34,421; Aug. 14.
Pain's Master. For Proprietary Medicines for Headaches, Colds, Etc. Cornel Drug Stores Inc. 34,423; Aug. 14.
Peter-Pan. For Canned Peas. Peter Pan Sales Corporation. 34,437; Aug. 14.
Poppy. For Syrup. Tea Garden Products Co. 34,447; Aug. 14.
Powder in Haste Without Waste. For Powder Puffs. C. Franck. 34,424; Aug. 14.
Quickshine. For Polish for Lacquer, Varnish, and Enamel Finishes. H. Silver. 34,443; Aug. 14.
Revolutionizing the Powder-Puff. For Powder Puffs. C. Franck. 34,425; Aug. 14.
Roy's Malt Syrup. For Malt Syrup. L. G. Reinshagen. 34,440; Aug. 14.
Salad Bouquet. For a Combined Condiment and Flavoring Compound. F. A. Kauffmann Mfg. Co. 34,432; Aug. 14.
Schmid's Wound Salve. For Medicinal Preparation in the Form of a Salve. Karl Schmid and Paula Schmid. 34,442; Aug. 14.
Shotts. For Medicinal Tonic. Rose Medical Co. 34,441; Aug. 14.
Silvitol Tobacco Habit Remedy. For a Preparation to Prevent Craving for Tobacco. Dr. W. D. Hammond. 34,428; Aug. 14.
Snow Cap. For Ginger Ale. Hildebrand Printery Inc. 34,431; Aug. 14.
Super Service. For Pure Vegetable Oil Soap. Super Service Corporation. 34,445; Aug. 14.
The Powder is Here to Stay, With This End Folded in or Tucked Away. For Powder Puffs. C. Franck. 34,426; Aug. 7.
Tea Garden. For Syrup. Tea Garden Products Co. 34,446; Aug. 14.
Texiton. For Medicine. J. R. Marioneaux. 34,433; Aug. 14.
Utah Maid. For Canned Tomatoes. Utah Canning Co. 34,448; Aug. 14.

ALPHABETICAL LIST OF PRINTS.

Adform 83. For Coffee. Hills Bros. 11,154; Aug. 14.
And He Wonders Why He Wasn't Promoted. For Garters. A. Stein & Company. 11,165; Apr. 14.
And He Wonders Why She Said "No." For Garters. A. Stein & Company. 11,168; Aug. 14.
And He Wonders Why Success Never Arrives. For Garters. A. Stein & Company. 11,166; Aug. 14.
And He Wonders Why They Laughed—And How. For Garters. A. Stein & Company. 11,167; Aug. 14.
Blitz. For Preparation for the Treatment of Corns. W. C. Ketchum. 11,161; Aug. 14.
Collingbourne's Elgin Twist. For Mercerized-Cotton Machine Twist. Collingbourne Mills Inc. 11,151; Aug. 14.
Colortones. For Food Colors. Colortone Company. 11,152; Aug. 14.
Cool, Fresh, Clean Underwear! For Athletic Underwear. B. V. D. Company. 11,149; Aug. 14.
For a Smart Woman Heartbreak Age Begins With Her First Gray Hair and Ends When She Finds Notox. For Inecto Rapid Notox. Inecto, Inc. 11,158; Aug. 14.
Good Morning. For Furniture. Weil Bros. Inc. 11,170; Aug. 14.
Good—Wingfoot—Year Means Good Wear. For Tires Composed Wholly or in Part of Rubber. Goodyear Tire & Rubber Company Inc. 11,153; Aug. 14.
If Thrift is Your Aim. For Athletic Underwear. B. V. D. Company. 11,150; Aug. 14.
Juliet Sure-Lite. For Fluid for Cigar Lighters. A. Silbar. 11,164; Aug. 14.
Notox . . . Means the End of Heartbreak Age. For Inecto Rapid Notox. Inecto, Inc. 11,159; Aug. 14.
Pfaffman's Prepared Food Products. For Alimentary Paste Products. Pfaffman Egg Noodle Company. 11,162; Aug. 14.
Rossite. For Drainpipe Solvent. Ross Manufacturing Company. 11,163; Aug. 14.
Simplex Jacks are "Aces" in Man-Power Quality and Simplicity. For Jacks. Templeton, Kenly & Co., Limited. 11,169; Aug. 14.
The D. & H. Lackawanna Anthracite. For Coal. Hudson Coal Company. 11,155–7; Aug. 14.
What is a Woman to do at the Sign of the First Gray Hair? For Inecto Rapid Notox. Inecto, Inc. 11,160; Aug. 14.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 14TH DAY OF AUGUST, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A-C Manufacturing Co. (See Capes, Delbert R., assignor.)
Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Electric heater. 1,680,718; Aug. 14.
Acme Lace Works, Inc. (See Meads, Walter, assignor.)
Acme Steel Company. (See Jones, Lloyd, assignor.)
Adams, Charles A., assignor to Mathews Gravity Carrier Company, Ellwood City, Pa. Tray for bread-cooling machines. 1,680,441; Aug. 14.
Adams, Noël. (See Gall, J. B., and Adams.)
Adkins, Elba O., assignor of one-half to The Huntington Auto Supply Company, Huntington, W. Va. Undercutting tool for commutators. 1,680,835; Aug. 14.
Ainsworth, George, Great Neck, N. Y. Screwless globe holder. 1,680,719; Aug. 14.
Akers, Milton K., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Generating and transmitting system. 1,680,278; Aug. 14.
Aktiengesellschaft Brown, Boveri & Cie. (See Faber, Paul, assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Jonas, Julius, assignor.)
Albaugh, Maurice, Quincy, Ohio. Display case. 1,680,275; Aug. 14.
Alberini, Filoteo. (See Cerqua, Corrado, assignor.)
Albright, Edward C., assignor to Indiana Lamp Corporation, Connersville, Ind. Lamp-focusing device. 1,680,836; Aug. 14.
Alden Manufacturing Company. (See Alden, Milton, assignor.)
Alden, Milton, assignor to Alden Manufacturing Company, Springfield, Mass. Escutcheon plate for radioreceivers or the like. Des. 75,996; Aug. 14.
Aldrich, Loyd I., assignor to Preferred Oil Burners, Inc., Peoria, Ill. Safety control mechanism for fuel atomizers. 1,680,929; Aug. 14.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. System of distribution. 1,680,758; Aug. 14.
Allen, Frank L., Montclair, N. J., and A. D. Flower, Wilmington, assignors to Edge Moor Iron Company, Edge Moor, Del. Drying apparatus. 1,680,274; Aug. 14.
Allen, Robert C. (See Hodgkinson, F., and Allen.)
Alloy Metal Products Co. (See Shortt, James, assignor.)
Allsop, Thomas, and W. W. Silson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Fabric drier. 1,681,078; Aug. 14.
American Chain Company. (See Yanss, George W., assignor.)
American Dressler Tunnel Kilns, Inc. (See Robertson Harry M., assignor.)
American Fibre Corporation. (See Baldwin, E. F., and Woods, assignors.)
American Fork & Hoe Company, The. (See Conley, Floyd E., assignor.)
American Gasaccumulator Company. (See Dalén, Gustaf, assignor.)
American Hardware Corporation, The. (See Petermann, Otto, assignor.)
American Mason Safety Tread Company. (See Welcome, Harold A., assignor.)
American Radiator Company. (See Eggleston, Lewis W., assignor.)
American Sales Book Company. (See Bottle, Edward K., assignor.)
American Solvent Recovery Corporation. (See Barnebey, Oscar L., assignor.)
American Sterilizer Company. (See Jewell, Raymond L., assignor.)
American Telephone and Telegraph Company. (See Bown, Ralph, assignor.)
American Telephone and Telegraph Company. (See Demarest, Charles S., assignor.)
American Telephone and Telegraph Company. (See Herman, J., and Singer, assignors.)
American Telephone and Telegraph Company. (See Holden, William H. T., assignor.)
American Telephone and Telegraph Company. (See Nyquist, Harry, assignor.)
American Wire Fence Company. (See Clement, Arthur A., assignor.)
Anderson, Fridthjof W., assignor to Northwestern Motor Company, Eau Claire, Wis. Railway motor truck. 1,680,492; Aug. 14.
Anderson, Fritz A., assignor to The Burdick Corporation, Milton, Wis. Therapeutic lamp. 1,680,583; Aug. 14.
Anderson, Mildred E., Minneapolis, Minn. Foot mat. 1,680,442; Aug. 14.
Ando, Katsutaro, Minamikatsushika-Gun, Tokyo-Fu, Japan. Combined lock and latch. 1,680,930; Aug. 14.
Andrus, Orrin E., and S. Hermanson, assignors to A. O. Smith Corporation, Milwaukee, Wis. Oil-refining still. 1,680,276; Aug. 14.
Angell, Andrew, Minneapolis, Minn. Distributor for condiments and the like. 1,680,584; Aug. 14.
Angus, George S. (See Stephens, Charles T., assignor.)
Appenzeller, Norman, assignor to Kidwell Boiler Company, Milwaukee, Wis. Baffle for water-tube boilers. 1,680,814; Aug. 14.
Arbelt, Pierre, Paris, France, assignor to Hartford-Empire Company, Hartford, Conn. Manufacture of glassware. 1,680,357; Aug. 14.
Armitage, Frederick L., Devonport, near Auckland, New Zealand. Apparatus for Pasteurizing and deodorizing cream. 1,680,720; Aug. 14.
Armspear Manufacturing Company. (See Spear, Furman D., assignor.)
Aronstam, Harry. (See Gilowitz, Benjamin, assignor.)
Artistic Brass & Bronze Works, Inc. (See Poritz, Frederick M., assignor.)
Ashenhurst, Harold S., assignor, by mesne assignments, to Insulex Corporation, Chicago, Ill. Monolithic wall and building the same. 1,680,837; Aug. 14.
Ashton, Richard A., assignor to Seneca Falls Machine Co., Seneca Falls, N. Y. Tool carriage and slide for machine tools. 1,680,838; Aug. 14.
Atlantic Aircraft Corporation. (See Fokker, Anthony H. G., assignor.)
Atlantic Refining Company, The. (See Lewis, Joseph W., jr., assignor.)
Atmospheric Nitrogen Corporation. (See Schultze, William, assignor.)
Austin, Edward, Schenectady, N. Y., assignor to General Electric Company. Carrier-current system. 1,680,759; Aug. 14.
Austin, Walter M., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-operated circuit interrupter. 1,680,405; Aug. 14.
Auto Pneumatic Action Company. (See Douglas, John A., assignor.)
Auto Pneumatic Action Company. (See La Joie, Hubert J., assignor.)
Auto Tool & Gauge Company, The. (See Graeff, Clement H., assignor.)
Automatic Appliance Company, The. (See Mapel, Lewis A., assignor.)
Automatic Electric Heater Company. (See Clark, Warren F., assignor.)
Automatic Electric Inc., (See Gardner, John E., assignor.)
Automatic Electric Inc. (See Homrighous, John H., assignor.)
Automatic Electric Inc. (See Ostline, John E., assignor.)
Axford, Allan C., San Francisco, Calif. Fireplace grate. Des. 75,997; Aug. 14.
Babcock & Wilcox Company, The. (See Jones, William A., assignor.)
Backer, Christian B., Brooklyn, N. Y. Electric iron. 1,680,406; Aug. 14.
Bailey, Edwin W. M., Amesbury, Mass. Window-glass guide. 1,680,815; Aug. 14.
Bailey, Samuel J., Nicholson, Pa. Sanitary milk-bottle container. 1,681,080; Aug. 14.
Bailey, Walter, Washington, D. C. Joint. 1,681,081; Aug. 14.
Baker, Alfred A., Buffalo, N. Y. Machine-stitched cravat or tie. 1,681,079; Aug. 14.
Baker, Bertie F. (See Knox, H. A., and Baker.)
Baker, John H., Detroit, Mich. Boiler. 1,680,931; Aug. 14.
Baker, William H., Boston, Mass. Plate. 1,680,839; Aug. 14.
Baldwin, Earl F., and F. E. Woods, assignors to American Fibre Corporation, Gardner, Mass. Machine for making fiber reed. 1,680,358; Aug. 14.
Baldwin, Earl F., and F. E. Woods, assignors to American Fibre Corporation, Gardner, Mass. Folding and pressing mechanism. 1,680,359; Aug. 14.
Ball, Samuel S., Bethlehem, Pa. Removing piping and unsound metal from ingots. 1,680,493; Aug. 14.
Ballard, Harrie, A., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for removing surplus stock from shoes. 1,680,494; Aug. 14.
Bamberger, Henry, Brooklyn, N. Y. Sink cleaner. 1,681,082; Aug. 14.
Baney, Harry N., Muncie, Ind. Salt and pepper shaker. Des. 75,998; Aug. 14.

Bankers Electric Protective Association. (See Crawford, Franklin E., assignor.)
Barnebey, Oscar L., Columbus, Ohio, assignor to American Solvent Recovery Corporation. Separating and recovering gases. 1,680,840; Aug. 14.
Barnum, Thomas E., Wauwatosa, and H. N. Wade, Shorewood, assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor controller. 1,680,495; Aug. 14.
Barroll, Henry E., Winnetka, assignor to Williams Sealing Corporation, Decatur, Ill. Nozzle for sheet-metal containers. 1,681,083; Aug. 14.
Barrows, Donald S., Rochester, assignor to The Symington Company, New York, N. Y. Draft rigging. 1,680,657; Aug. 14.
Barry-Wehmiller Machinery Company. (See Dawson, Joseph W., assignor.)
Bartlett, Henry R., West Hartford, Conn. Electric-circuit tracer. 1,680,841; Aug. 14.
Barton, Louis E., and L. W. Ryan, Niagara Falls, assignors to Titanium Pigment Company, Inc., New York, N. Y. Composite titanium pigment and making same. 1,680,316; Aug. 14.
Bass, Walter L. (See Bryant, Leslie R., assignor.)
Bassani Processes, Incorporated. (See Berg, Hart O., assignor.)
Bassick Company, The. (See Moore, Raymond G., assignor.)
Bath, John, Worcester, Mass. Lubricating device for grinding machines. 1,680,360; Aug. 14.
Bauer, Hugh, San Francisco, Calif. Surfacing tool. 1,680,496; Aug. 14.
Bausman, Alonzo L., Springfield, Mass. Feeding mechanism for confectionery machines. 1,680,842; Aug. 14.
Baxter, Leon, Brooklyn, N. Y. Tone arm. 1,681,084; Aug. 14.
Bayuk Cigars, Incorporated. (See Kitchel, R. R., Lippard, and Mullan, assignors.)
Beach, Thomas E., Baltimore, Md., assignor to Hartford-Empire Company, Hartford, Conn. Cullet dump for leers. 1,680,361; Aug. 14.
Beacon Oil Company. (See Crittenden, B. P., and Killinger, assignors.)
Beardsley & Wolcott Mfg. Co., The. (See Wolcott, Frank E., assignor.)
Beatty, Palmer and Beatty. (See Beatty, William H., assignor.)
Beatty, William H., assignor to Beatty, Palmer and Beatty, Birmingham, Ala. Flask for centrifugal sand molds. 1,681,085; Aug. 14.
Bechaud, Leslie J., assignor to Bunting Iron Works, Berkeley, Calif. Motor mounting. 1,680,843; Aug. 14.
Becker, Fritz H., Irvington, N. J. Ball-bearing center for machines. 1,681,087; Aug. 14.
Becker, Rudolph, Plainfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Thread-controlling mechanism for sewing machines. 1,680,721; Aug. 14.
Becket, Frederick M., assignor to Electro Metallurgical Company, New York, N. Y. Welding of copper and copper alloys. 1,680,844; Aug. 14.
Beckwith Company, The. (See Firestone, James F., assignor.)
Beebe, Gaylord W., Albany, Ga. Check protector. 1,680,443; Aug. 14.
Bekesch, Anna, assignor to V. Gross and A. Mayer, Vienna, Austria. Cinematographic toy. 1,680,659; Aug. 14.
Bell & Howell Company. (See Howell, Albert S., assignor.)
Bell Telephone Laboratories, Incorporated. (See Kerr, Mark B., assignor.)
Bell, Thomas, Richmond, Va. Vulcanizer. 1,681,086; Aug. 14.
Bellemare, Arthur, Three Rivers, Quebec, Canada. Paper-making machine. 1,680,277; Aug. 14.
Benda, Louis, Mainkur, near Frankfort-on-the-Main, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft. Substituted 4.4' dihydroxybisacylaminoarsenobenzenes. 1,680,845; Aug. 14.
Bendix Brake Company. (See Sanford, Roy S., assignor.)
Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Tractor attachment. 1,680,846; Aug. 14.
Bennett, Arthur A. and C. H., Reedsport, Oreg. Fish elevator. 1,680,722; Aug. 14.
Bennett, Cecil H. (See Bennett, Arthur A. and C. H.)
Bensa, Felice. (See Zinke, A., and Funke, assignors.)
Benson, Sherman S., York, Nebr. Rotatable sign. 1,680,658; Aug. 14.
Berg, Hart O., Paris, France, assignor to Bessani Processes, Incorporated, New York, N. Y. Screen-decentering device. 1,680,585; Aug. 14.
Berg, Lewis J., Broadhead, Wis. Combination tie plate and rail anchor. 1,680,586; Aug. 14.
Berger Brothers Company. (See Geiser, George B., assignor.)
Berman, Louis, New York, N. Y. Parathyroid product. 1,680,660; Aug. 14.
Berry, Henry J., assignor of one-third to C. W. Floss, Detroit, Mich. Motor mounting. 1,680,967; Aug. 14.
Best, R. F. (See Mallory, Louis V., assignor.)
Binns, Edward H. (See Binns, Ralph H., assignor.)
Binns, Ralph H., assignor of two-sevenths to E. H. Binns, Pittsburgh, Pa. Flexible closure. 1,680,362; Aug. 14.
Binz, Arthur, and C. Rath, Berlin, Germany. Manufacture of 2-hydroxy-3-bromo-5-pyridin arsonic acid. 1,680,587; Aug. 14.
Birrell, Lawrence H., Salt Lake City, Utah, assignor of one-half to A. N. Rosenbaum, Los Angeles, Calif. Double lock box. 1,680,661; Aug. 14.
Bishop, Ernest L., Lindsay, Calif. Filter. 1,680,848. Aug. 14.
Bishop, Frederick R., North Attleboro, Mass. Optical mounting. Des. 75,999; Aug. 14.
Bitney, Dewey H., assignor to Union Steel Products Company, Albion, Mich. Structural unit. 1,680,444; Aug. 14.
Bjork, Edmund. (See Gillingham, A., and Bjork.)
Bjorkman, Axel W., Brooklyn, assignor to Otis Elevator Company, New York, N. Y. Coil-spreading device. 1,680,847; Aug. 14.
Black, Jotham F., Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Method of and apparatus for forming sheet glass. 1,680,588; Aug. 14.
Blakeslee, Henry J., Hartford, Conn. Electric-meter-testing apparatus. 1,680,849; Aug. 14.
Blanchard, Frederick C., Detroit, Mich. Lubricator. 1,680,278; Aug. 14.
Bliss Containers, Inc. (See Bliss, Herbert R., assignor.)
Bliss, Herbert R., assignor to Bliss Containers, Inc., Niagara Falls, N. Y. Suit box. 1,680,932; Aug. 14.
Bloom, Louis, and G. A. Cohan, assignors to Grip-Lite Manufacturing Company, Inc., New York, N. Y. Portable garage light. 1,680,723; Aug. 14.
Bock, Wilhelm, Passaic, N. J. Thermoelectric stress meter. 1,680,589; Aug. 14.
Bond Foundry & Machine Company. (See Bowen, James, assignor.)
Booth, James S., Detroit, Mich. Sleeve-valve gear. 1,680,445; Aug. 14.
Boosey, Edward W. N., Detroit, Mich. Cover for conduit fittings. 1,680,279; Aug. 14.
Boosey, Edward W. N., Detroit, Mich. Trench cover and frame. 1,680,280; Aug. 14.
Booty, Philip C. P., assignor to M. T. Daley, Chicago, Ill. Receptacle for face powder and the like. 1,680,317; Aug. 14.
Borden, Arthur G., Washington, D. C., assignor to The Borden Method Incorporated. Permanent-hair-waving appliance. 1,681,024; Aug. 14.
Borden Method Incorporated, The. (See Borden, Arthur G., assignor.)
Borough, Willard L. (See Zublin, J. A., and Borough.)
Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifolding sales book. 1,680,933; Aug. 14.
Bottomley, Edward, and F. Welch, Sheridan, Wyo. Track-cleaning attachment for loading machines. 1,681,089; Aug. 14.
Bouillon, Constant, assignor to The Hendey Machine Company, Torrington, Conn. Manual feeding mechanism for machine tools. 1,680,590; Aug. 14.
Bounos, Louis, Valdese, N. C. Apparatus for dyeing yarn. 1,681,088; Aug. 14.
Bouvier, Maurice E., and L. U. Hugoniot, Lyon, assignors to Societe Chimique des Usines du Rhone, Paris, France. Preparation of ethylidene diacetate. 1,680,760; Aug. 14.
Bowden, Henery M., Allandale, Ontario, Canada. Brake-beam assembly. 1,681,090; Aug. 14.
Bowen, George W., assignor to Illinois Watch Case Company, Elgin, Ill. Making watchcases. 1,680,281; Aug. 14.
Bowen, James, Manheim, Pa., assignor to Bond Foundry & Machine Company. Caster. 1,680,446; Aug. 14.
Bower, George W., Schenectady, N. Y., assignor to General Electric Company. Connecter for strain insulators. 1,680,724; Aug. 14.
Bowers, Frederick M., Chester, Pa. Welder's shield. 1,680,725; Aug. 14.
Bown, Ralph, Maplewood, N. J., assignor to American Telephone and Telegraph Company. Directive antenna. 1,680,363; Aug. 14.
Boyd, John S., assignor by mesne assignments, to Boyd Textile Corporation, Williamstown, Mass. Textile fabric. Des. 76,000; Aug. 14.
Boyd Textile Corporation. (See Boyd, John S., assignor.)
Boys, Charles V., Westminster, London, England. Heat interchanger. 1,680,850; Aug. 14.
Brace, Porter H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Induction furnace. 1,680,407; Aug. 14.
Bradnack, John H., New Haven, assignor to The Tubular Products Company, Southington, Conn. Smoker's stand. 1,681,025; Aug. 14.
Bradnack, John H., New Haven, assignor to The Tubular Products Company, Southington, Conn. Stand for smoker's sets. 1,681,026; Aug. 14.
Brady, Thomas, East Orange, assignor to Otis Elevator Company, Jersey City, N. J. Lubricating mechanism. 1,680,761; Aug. 14.
Brennan, Clark A., Minneapolis, Minn. Railway-car brake. 1,680,968; Aug. 14.
Brennan, Thomas H., Chicago, Ill. Construction for radio receiving inductances. 1,680,851; Aug. 14.
Brenne, Arild M., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,680,282; Aug. 14.
Brewer-Titchener Corporation, The. (See Winans, Daniel M., assignor.)
Breyer, Frank G., and E. H. Bunce, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Built-up vertical zinc retort. 1,680,726; Aug. 14.

Briggs, William P., New Bedford, Mass. Cut-out and plug. 1,680,969; Aug. 14.
Broch, John, Corona, N. Y. Hatrack. Des. 76,002; Aug. 14.
Brooks, Charles E. (See Casey, W. F. J., Cavin, and Brooks.)
Brotelle, Octave, Brussels, Belgium. Hat. 1,680,852; Aug. 14.
Brown, Arthur L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condensation product and making the same. 1,680,408; Aug. 14.
Brown Company. (See Parker, Howard, assignor.)
Brown Company. (See Richter, G. A., Van Arsdel, and Gosselink, assignors.)
Brown, Herman E., Kingston, N. Y., and J. H. Stover, Nutley, N. J., assignors, by mesne assignments, to Respro Inc., Providence, R. I. Impregnated fabric and making the same. 1,680,497; Aug. 14.
Brown, Mortimer J., Niagara Falls, and E. A. Harding, La Salle, assignors to Roessler & Hasslacher Chemical Company, New York, N. Y. Producing hydrocyanic acid. 1,680,662; Aug. 14.
Brown, Ray W., assignor to Barney Oldfield Manufacturing Company, Los Angeles, Calif. Machine for cutting compound curves. 1,680,853; Aug. 14.
Brown-Lipe Gear Company. (See Spase, Charles B., assignor.)
Bryant, Leslie R., assignor of one-half to W. L. Bass, Hattiesburg, Miss. Track-gauge indicator. 1,681,091; Aug. 14.
Bryant, Thomas W., Torrington, Conn. Golf club. 1,680,447; Aug. 14.
Bryce Brothers Company. (See Dithridge, James D., assignor.)
Bryson, John N., et al. (See Grames, Lawrence R., assignor.)
Buckner, Hugo J., Hanford, Calif. Automobile signal switch. 1,680,854; Aug. 14.
Buda Company, The. (See Gormley, Frank L., assignor.)
Budd, Edward G., Manufacturing Co. (See Ledwinka, Joseph, assignor.)
Buel, Hillhouse, Seattle, Wash., assignor of one-half to W. P. Hammond, Scarsdale, N. Y. Composition for preserving food products. 1,680,934; Aug. 14.
Bugenhagen, George H., Minot, N. Dak. Automatic control valve. 1,680,591; Aug. 14.
Bulova, Joseph, assignor to Bulova Watch Company, Inc., New York, N. Y. Display box. 1,681,092; Aug. 14.
Bulova Watch Company. (See Bulova, Joseph, assignor.)
Bunce, Earl H. (See Breyer, F. G., and Bunce.)
Bunker, H. M., & Co. (See Gardner, Percy, assignor.)
Bunting Iron Works. (See Bechaud, Leslie J., assignor.)
Burdick Corporation, The. (See Anderson, Fritz A., assignor.)
Burufiel, James H., South Akron, Ohio. Dirigible headlight. 1,680,727; Aug. 14.
Burns, Timothy. (See Cort, S. J., Burns, Dougherty, and Lehr.)
Burns, William A., London, England. Illusion device. 1,680,855; Aug. 14.
Bury, Charles W., New York, N. Y. Automobile radiator. Des. 76,002; Aug. 14.
Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Mounting for brake-beam safety bars. 1,680,448; Aug. 14.
Butler, James W. and L. W., Burbank, Calif. Douche and syringe. 1,680,762; Aug. 14.
Butler, Lawrence W. (See Butler, James W. and L. W.)
C. Lorenz Aktiengesellschaft. (See Gutzmann, Fritz, assignor.)
Cadwell, Sidney M., Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Treating rubber latex. 1,680,856; Aug. 14.
Cadwell, Sidney M., Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Treating latex and the products obtained thereby. 1,680,857; Aug. 14.
Cadwell, Sidney M., Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Manufacturing rubber articles from latex. 1,680,858; Aug. 14.
Calhoun, John W., Chester, Pa. Bottom for water meters. 1,681,027; Aug. 14.
Callahan, Christian E., assignor to The Pioneer Rubber Company, Willard, Ohio. Assembly disk for elastic material. 1,680,318; Aug. 14.
Campbell, Ben J., Hoboken, N. J. Dynamic optometer and eye-testing apparatus. 1,680,663; Aug. 14.
Campbell, Charles, London, England, assignor to The Tabulating Machine Company, Endicott, N. Y. Totaltaking device. 1,681,152; Aug. 14.
Canadian Electro Products Company. (See Reid, Hugh S., assignor.)
Caparell, Peter, Philadelphia, Pa. Stocking. 1,680,859; Aug. 14.
Capek, Anton, Ord, Nebr. Figure wheeled toy. 1,681,093; Aug. 14.
Capeliuschnicoff, Matvey A., Baku, Russia. Apparatus for boring wells and the like. 1,681,094; Aug. 14.
Capes, Delbert R., Chicago, Ill., assignor to A-C Manufacturing Co., Inc. Brake mechanism for vehicles. 1,680,319; Aug. 14.
Card, Charles S., Denver, Colo. Roller and bearing support therefor. 1,680,449; Aug. 14.
Carlsson, Ernst H., Oscarshamn, Sweden. Machine for ramming paving stones and the like. 1,680,450; Aug. 14.
Carvalho, Leslie R. N., assignor to The Closure Service Company, Toledo, Ohio. Receptacle closure. 1,680,763; Aug. 14.
Carver, C. R., Company. (See Fellows, Walter C., assignor.)
Casey, William F. J., and G. Cavin, Kingston, Ontario, and C. E. Brooks, Montreal, Quebec, Canada. Truck construction. 1,681,095; Aug. 14.
Cavin, Gustave. (See Casey, W. F. J., Cavin, and Brooks.)
Central Electric Tool Company. (See Weyandt, Carl S., assignor.)
Cerqua, Corrado, Brooklyn, assignor to F. Alberini, New York, N. Y. Panoramic-moving-picture apparatus. 1,680,498; Aug. 14.
Chain Belt Company. (See Hamren, Eric O., assignor.)
Champion, Charles V., Catlin, Ill. Electric toasting device. Des. 76,003; Aug. 14.
Chandler, Edward F., Brooklyn, N. Y. Torpedo. 1,680,451; Aug. 14.
Chapin, William R., Wyoming, assignor of one-half to S. S. Staples, White Haven, Pa. Composite brick. 1,681,028; Aug. 14.
Cheatham Electric Switching Device Company. (See Scoggan, Richard R., assignor.)
Chicago Pneumatic Tool Company. (See Davenport, Ransom W., assignor.)
Chicago Railway Equipment Company. (See Busse, Edwin G., assignor.)
Chiles, Raymond A., Spokane, Wash. Mitten. 1,680,592; Aug. 14.
Chipron Stamp Company. (See Smith, Albert K., jr., assignor.)
Chisholm, Frank K., Goulburn, Australia. Tobacco substitute with therapeutical properties. 1,680,860; Aug. 14.
Christiansen, Bror, Smedjebacken, Sweden. Roasting and reducing ores. 1,680,861; Aug. 14.
Chrysler Corporation. (See Clark, Oliver H., assignor.)
Church, Lewis H., Roselle, assignor to The Thomas & Betts Co., Elizabeth, N. J. Capped elbow. 1,681,097; Aug. 14.
Clark, James F. N. Smith, and J. Meese, assignors to S. R. Dresser Manufacturing Company, Bradford, Pa. Wrought-metal connection for threaded pipe sections. 1,680,499; Aug. 14.
Clark, Milton O., Clarkston, Mich. Oil-storage tank. 1,681,098; Aug. 14.
Clark, Oliver H., assignor to Chrysler Corporation, Detroit, Mich. Radiator shell. Des. 76,004; Aug. 14.
Clark, Oliver H., assignor to Chrysler Corporation, Detroit, Mich. Combined radiator casing and hood. Des. 76,005; Aug. 14.
Clark, Robert G., Brooklyn, N. Y. Box-covering apparatus. 1,680,764; Aug. 14.
Clark, Walter J., and W. M. Romine, Wichita, Kans. Dental flask. 1,680,364; Aug. 14.
Clark, Warren F., assignor to Automatic Electric Heater Company, Warren, Pa. Portable melting pot. 1,681,099; Aug. 14.
Clark, William G. (See Weston, E. B., and Clark.)
Clement, Arthur A., assignor to American Wire Fence Company, Chicago, Ill. Reenforcement for concrete columns. 1,680,935; Aug. 14.
Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radiobroadcast distributing system. 1,681,100; Aug. 14.
Cleveland Chain and Manufacturing Company, The. (See Power, Charles M., assignor.)
Cleveland, Lindell, Arlington, Mass. Extension table. 1,680,664; Aug. 14.
Clifford, Patrick J., Falls, Pa., assignor, by mesne assignments, to Train Control Corporation of America. Automatic train-control apparatus. 1,680,665; Aug. 14.
Clinton, Harry D., Johnson City, N. Y. Spool and bobbin. 1,681,096; Aug. 14.
Closure Service Company, The. (See Carvalho, Leslie R. N., assignor.)
Conhran, Jesse M., Colegrove, Pa., assignor to Olean Sales Corporation, Olean, N. Y. Preventing losses in closed-circuit treating apparatus. 1,680,452; Aug. 14.
Cohan, George A. (See Bloom, L., and Cohan.)
Colgate & Company. (See Smith, Fulton W., assignor.)
Colladay, Edward F. (See Clement, Edward E., assignor.)
Color Ray Holding Corporation, The. (See Peters, Thomas K., assignor.)
Colucci, John M., Brooklyn, N. Y. Smoking stand. Des. 76,006; Aug. 14.
Commonwealth Steel Company. (See Sheehan, William M., assignor.)
Coningswood, Michael, Clifton, N. J. Loom harness mechanism. 1,680,501; Aug. 14.
Conley, Floyd E., Jackson, Mich., assignor to The American Fork & Hoe Company. Broom rake. 1,680,593; Aug. 14.
Connell, Amos C., Schenectady, N. Y., assignor to General Electric Company. Control apparatus. 1,680,765; Aug. 14.
Connolly, Thomas F., and L. Randle, Colfax, Wash.; said L. Randle assignor to C. E. Randle, Pullman, Wash. Rat trap. 1,680,594; Aug. 14.
Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Telephone device. 1,680,409; Aug. 14.
Consolidated Car-Heating Company. (See Hynes, Lee P., assignor.)

Constantin, Louis, Paris, and G. Daloz, Becon-les-Bruyeres, France. Ship, boat, and other vehicle provided with aerial turbines. 1,680,666; Aug. 14.
Continental Can Company. (See Coyle, John, assignor.)
Continental Railway Supply Corporation. (See Hyle, J. A., and Keatley, assignors.)
Cook, Roy J. (See Strid, Sven J., assignor.)
Cooke, Charles J., Washington, D. C. Diving apparatus. 1,681,029; Aug. 14.
Cookenmaster, Edmond, Fairgrove, Mich. Bushing remover. 1,680,320; Aug. 14.
Corcoran, John J. (See Hull, S. P., Corcoran, and Everett.)
Corcoran, Thomas J., Lamp Company, The. (See Kuen, Eugene A., assignor.)
Cort, Stewart J., Bethlehem, Pa., T. Burns, Buffalo, N. Y., R. S. A. Dougherty and C. E. Lehr, Bethlehem, Pa. Regenerative open-hearth furnace. 1,680,365; Aug. 14.
Costello, Thomas F. (See Loetetter, Edward H., assignor.)
Cotes, William A., assignor to Reo Motor Car Company, Lansing, Mich. Template. 1,680,500; Aug. 14.
Cottingham, John W., Columbus, Ohio. Carburetor. 1,680,766; Aug. 14.
Courtaulds Limited. (See Diamond, Claude, assignor.)
Courtin, Ebethard, Berlin, Germany, assignor to General Electric Company. Regulating system. 1,680,728; Aug. 14.
Cox, Edgar C. (See Westerfield, Brasher O., assignor.)
Coyle, John, Baltimore, Md., assignor to Contiuental Can Company, Inc., New York, N. Y. Apparatus for treating food products in closed containers. 1,681,101; Aug. 14.
Craig, Finis R., and J. J. Oling, assignors to Production Pattern Company, Harvey, Ill. Magnetic pattern. 1,680,502; Aug. 14.
Cramer, Albert N., assignor to The Owens Bottle Company, Toledo, Ohio. Apparatus for setting up and transferring bottles and other articles. 1,680,283; Aug. 14.
Crawford, Franklin E., Winchester, assignor to Bankers Electric Protective Association, Boston, Mass. Time-clock indicator. 1,680,321; Aug. 14.
Crew, Samuel J., Yarraville, Victoria, Australia. Signal device. 1,680,366; Aug. 14.
Crichton, Leslie N., Edgewood, and L. R. Golladay, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Relay-tripping system. 1,680,410; Aug. 14.
Crittenden, Butler P., Watertown, and A. C. Killinger, Everett, assignors to Beacon Oil Company, Boston, Mass. Excavating device. 1,680,322; Aug. 14.
Cude, Harold E., Floral Park, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Treating rubber and product. 1,680,862; Aug. 14.
Culp, John F., assignor to Ideal Lubricator Company, Philadelphia, Pa. Lubricating system. 1,680,936; Aug. 14.
Culver, Herbert H., St. Louis, Mo. Water-filter attachable to faucets. 1,680,323; Aug. 14.
Culwell, Jacob J. (See Hood, L. H., and Culwell.)
Curlee, John M., Kirkwood, Mo. Combined speedometer and motometer. 1,680,503; Aug. 14.
Curtis, Austen M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. 1,680,687; Aug. 14.
Cutler-Hammer Mfg. Co., The. (See Barnum, T. E., and Wade, assignors.)
Cutler-Hammer Mfg. Co., The. (See Seeger, Edwin W., assignor.)
Cutler, Herman Z., Camden, N. J. Increasing the strength of sheet-metal articles. 1,680,504; Aug. 14.
D. Co., Inc. (See Davidson, Arthur C., assignor.)
Dahl, Conrad, Springfield, Ohio, assignor of one-half to E. G. S. Tracy. Amusement swing. 1,680,970; Aug. 14.
Dailey, Edward J., jr., assignor to Grayhar Electric Company, Inc., New York, N. Y. Lighting fixture. 1,681,151; Aug. 14.
Dalén, Gustaf, Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Railway-crossing signal. 1,680,767; Aug. 14.
Dalet, Frank H., New York, N. Y. Oscillation-control circuits. 1,681,102; Aug. 14.
Daley, Michael T. (See Booty, Philip C. P., assignor.)
Daloz, Gaston. (See Constantin, L., and Daloz.)
Dalton, William H., Salem, Mass. Electric toaster. 1,680,768; Aug. 14.
Damerell, Mark H., assignor to Wyman-Gordon Company, Worcester, Mass. Crank-shaft-twisting machine. 1,680,769; Aug. 14.
Danville, Frank F., Gloversville, N. Y. Cigarette case. 1,680,324; Aug. 14.
Dath, Charles E., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Hand brake. 1,680,284; Aug. 14.
Dauplaise, Noah L., South Manchester, Conn., assignor to N. L. Jarvis, Palmer, Mass. Power-stopping device. Re17,065; Aug. 14.
Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Transforming heat and controlling working substances. 1,680,453; Aug. 14.
Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Apparatus for producing thermodynamic effects. 1,680,454; Aug. 14.
Davidson, Aurthar C., Bronxville, assignor to D. Co., Inc., New York, N. Y. Treatment of alloy steel. 1,680,937; Aug. 14.
Davis, Archibald H., jr., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Current induction. 1,680,595; Aug. 14.
Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Apparatus for handling loose materials. 1,680,938; Aug. 14.
Davis, Ernest, assignor to The Prosperity Company Inc., Syracuse, N. Y. Mechanical movement for pressing machines. 1,680,729; Aug. 14.
Davis, Fred D., Duncan, Okla. Fishing tool for oil wells. 1,680,596; Aug. 14.
Davis, John B., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Fill box. 1,680,770; Aug. 14.
Davis, Lee I., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Control system for elevators. 1,680,771; Aug. 14.
Dawson, Joseph W., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo. Loading device. 1,680,826; Aug. 14.
Day, Salisbury M., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Indication for color-light signals. 1,680,971; Aug. 14.
Dayton Pump & Manufacturing Company, The. (See Eickmeyer, Earl E., assignor.)
Dayton Scale Company. (See Hopkinson, Joseph, assignor.)
Deale, Robert C., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Magnetic shunt for dynamo-electric machines. 1,680,731; Aug. 14.
Deale, Robert C., and R. H. Rausch, Plainfield, N. J., assignors to Niles-Bement-Pond Company, New York, N. Y. Control system. 1,680,730; Aug. 14.
De Boer, Rudolph, assignor to Grand Rapids Metalcraft Corporation, Grand Rapids, Mich. Wall pocket. 1,680,668; Aug. 14.
Deere & Company. (See White, Charles E., assignor.)
De Lautour, Francis, Wellington, New Zealand. Internal-combustion engine. 1,680,505; Aug. 14.
Demarest, Charles S., Ridgewood, N. J., assignor to American Telephone and Telegraph Company. Repeater circuits. 1,680,367; Aug. 14.
Dentists' Supply Company, The. (See Whiteley, George H., jr., assignor.)
Derr, Ralph B., Oakmont, Pa., assignor, by mesne assignments, to National Aluminate Corporation, Chicago, Ill. Purifying water. 1,680,506; Aug. 14.
De Tar, Donald R., Schenectady, N. Y., assignor to General Electric Company. Control apparatus. 1,680,732; Aug. 14.
De Wick, William H., Brooklyn, N. Y. Banjo or the like musical instrument. 1,681,148; Aug. 14.
Dexter, Lucien A., assignor to National Brass Company, Grand Rapids, Mich. Locking rosette. 1,681,147; Aug. 14.
Diamond, Claude, Coventry, assignor to Courtaulds Limited, London, England. Esterification of cellulose in presence of a phenol. 1,681,103; Aug. 14.
Diamond Machine Company. (See Stratton, Frank E., assignor.)
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Table cover or similar article. Des. 76,007; Aug. 14.
Dienner, John A., Chicago, and A. C. Mabee, Villa Park, Ill. Rail anchor. 1,680,669; Aug. 14.
Dietze, Richard, Pankow, Berlin, Germany, assignor to General Electric Company. Electrical system and apparatus. 1,680,733; Aug. 14.
Dithridge, James D., New York, N. Y., assignor to Bryce Brothers Company, Mount Pleasant, Pa. Goblet or similar article. Des. 76,008; Aug. 14.
Dixon, George C. (See Hendrickson, E. E., and Dixon.)
Dlouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 76,009; Aug. 14.
Dockings, John, Hamilton, Ontario, Canada. Slide valve for steam engines. 1,680,285; Aug. 14.
Donovan, Alfred W., Rockland, Mass. Making boots and shoes. 1,680,670; Aug. 14.
Dorsey, Herbert G., Gloucester, assignor to Submarine Signal Corporation, Boston, Mass. Apparatus for measuring distance. 1,680,507; Aug. 14.
Dougherty, Robert S. A. (See Cort, S. J., Burns, Dougherty, and Lehr.)
Douglas, John A., Woodside, assignor to Auto Pneumatic Action Company, New York, N. Y. Tension regulator. 1,680,368; Aug. 14.
Dow Chemical Company, The. (See Veazey, William R., assignor.)
Downer, Murillo, Chicago, Ill. Boiler washing and refilling device. 1,680,772; Aug. 14.
Downing, Virgil S., Jackson, Miss. Illuminating lamp for autos. 1,680,508; Aug. 14.
Doyle, James S. (See Hedley, F., and Doyle.)
Drake, Samuel H. (See Stark, W. E., and Drake.)
Dreaper, William P., Hampstead Heath, England. Alloy and its uses. 1,680,598; Aug. 14.
Dresser, S. R., Manufacturing Company. (See Clark, J., Smith, and Meese, assignors.)
Driscoll, Joseph J. (See Lymburner, Armand, assignor.)

Ducy, Daniel F., Decatur, Ill. Knee cushion for church pews. 1,680,509; Aug. 14.
Duesenberg, Frederick S., Indianapolis, Ind., assignor to Indianapolis, Corporation, Wilmington, Del. Fluid-pressure brake system. 1,681,030; Aug. 14.
Duemler, Virgil E., Maplewood, and G. R. Koeln, assignors, by mesne assignments, to Electrol, Inc. of Missouri, St. Louis, Mo. Power circuit for electric machines. 1,680,773; Aug. 14.
Dugan, James J., Wilmington, Del. Making compound stock. 1,680,369; Aug. 14.
Dunaway, Norman S., Houston, Tex. Dumping truck. 1,680,734; Aug. 14.
Du Pont-Pathe Film Manufacturing Corporation. (See Renwick, Frank F., assignor.)
Durand Steel Locker Company. (See Vance, Walter N., assignor.)
Dutton, Charles S., Oakland, Calif. Automatic time-printing device. 1,680,326; Aug. 14.
Dyke, John A., Cedarville, Calif. Header attachment for side-delivery hay loaders. 1,680,597; Aug. 14.
E. M. S. Industrial Processes Limited. (See Salerni Edoardo M., assignor.)
Earnhardt, Everette G., Bath, Pa. Snow remover. 1,681,104; Aug. 14.
Ealy, Clem D., Elkhart, Ind. Badge or similar article. Des. 76,010; Aug. 14.
Easthope, Ernest, Vancouver, British Columbia, Canada. Stump-pulling engine. 1,680,939; Aug. 14.
Eaton, George M., Pittsburgh, and E. E. Rose, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator connecter. 1,680,411; Aug. 14.
Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Tank structure. 1,680,412; Aug. 14.
Eaton, T., Co., Limited, The. (See Hemphill, William N., assignor.)
Eclipse Machine Company. (See Lansing, Raymond P., assignor.)
Eddy, Herbert L., Hamilton, Kans. Wheel-rim contracting and expanding tool. 1,680,600; Aug. 14.
Eddy, R. M., Foundry Company. (See Simonsen, Edward H., assignor.)
Edelin, James N., Washington, D. C. Ice pick. 1,680,774; Aug. 14.
Edelman, Philip E., Chicago, Ill. Radio power-supply unit. 1,680,370; Aug. 14.
Edge Moor Iron Company. (See Allen, F. L., and Flower, assignors.)
Edison Electric Appliance Company. (See Shroyer, Jacob L., assignor.)
Edson, William R., Southbridge, Mass. Picker magnet. 1,680,599; Aug. 14.
Eggleston, Lewis W., Buffalo, assignor to American Radiator Company, New York, N. Y. Valve. 1,681,157; Aug. 14.
Eicher, Albert L., Canal Fulton, Ohio. Forging gear-worms. 1,680,327; Aug. 14.
Eicher, Albert L., Canal Fulton, Ohio. By-pass lubricator. 1,680,328; Aug. 14.
Eickmeyer, Earl E., assignor to The Dayton Pump & Manufacturing Company, Dayton, Ohio. Gasoline-pump. 1,680,972; Aug. 14.
Eickmeyer, Earl E., assignor to The National Recording Pump Company, Dayton, Ohio. Liquid-measuring pump. 1,681,105; Aug. 14.
Einfeldt, Ernest E., assignor, by mesne assignments, to French & Hecht, Inc., Davenport, Iowa. Locking device for wheel-rim-expanding wedges. 1,680,371; Aug. 14.
Eisenhuth, Frederick G., Utica, N. Y. Wheel puller. 1,680,974; Aug. 14.
Electric Vacuum Cleaner Company. (See Lang, Henry T., assignor.)
Electrical Engineers Equipment Company. (See Lotz, Alfred F. C., assignor.)
Electro Dental Manufacturing Company. (See Ginder, William H., assignor.)
Electro Metallurgical Company. (See Becket, Frederick M., assignor.)
Electrol, Inc. of Missouri. (See Duemler, V. E., and Koeln, assignors.)
Elliott, Frederick D., Seattle, Wash. Retaining clip. 1,680,601; Aug. 14.
Ellison, Edward H., Jamestown, N. Y. Drawer pull. 1,680,602; Aug. 14.
Else, Harry D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Washing-machine wringer. 1,680,413; Aug. 14.
Elyria Iron and Steel Company, The. (See Smith, Anthony E., assignor.)
Emmons, William W., Newark, N. J. Sleeve terminal box for electric cables. 1,680,940; Aug. 14.
Ernst, Charles A., assignor of one-half to F. McDonald, Rainier, Wash. Steering device. 1,680,603; Aug. 14.
Erwin, James A., Oak Park, Ill. Humidifying apparatus. 1,680,604; Aug. 14.
Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Apparatus for interrupting electric arcs. 1,680,671; Aug. 14.
Ettlinger, Ralph, Kansas City, Mo. Frame for sausage casings. 1,680,286; Aug. 14.
Evans Flexible Reamer Corporation. (See Evans, William H., assignor.)
Evans, Keith J., Chicago, Ill. Game apparatus. 1,680,287; Aug. 14.
Evans, William H., assignor to Evans Flexible Reamer Corporation, Chicago, Ill. Reaming tool. 1,680,466; Aug. 14.
Evans, William H., assignor to Evans Flexible Reamer Corporation, Chicago, Ill. Valve-seat reamer. 1,680,510; Aug. 14.
Everedy Company, The. (See Lebherz, Harry J., assignor.)
Everett, Edward A. (See Hull, S. P., Corcoran, and Everett.)
Faber, Paul, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Reversible blower apparatus. 1,680,775; Aug. 14.
Faessler, J., Manufacturing Company, The. (See Maupin, Graves R., assignor.)
Fagan, Charles D., Sharon, assignor to Sharpsville Boiler Works, Sharpsville, Pa. Dial frame. Des. 76,011; Aug. 14.
Fahlberg, E. D., Mfg. Company. (See Fahlberg, Ernest D., assignor.)
Fahlberg, Ernest D., assignor to E. D. Fahlberg Mfg. Company, Madison, Wis. Soldering furnace. 1,680,776; Aug. 14.
Fairchild, Walter L., New York, N. Y. Valve-stem-locking mean for inner-tube molds and the like. 1,680,777; Aug. 14.
Famous Players-Lasky Corporation. (See Garbutt, F. E., and Fear, assignors.)
Farenc, Jean, Paris, France. Automatic stopping system for railroad cars. 1,681,106; Aug. 14.
Fawick, Thomas L., Racine, Wis. Gearing. 1,680,672; Aug. 14.
Fear, Ralph G. (See Garbutt, F. E., and Fear.)
Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Core for radiators. 1,680,673; Aug. 14.
Fedders Manufacturing Company. (See Fedders, John M., assignor.)
Fedders Manufacturing Company. (See Slagel, Franklin G., assignor.)
Fegley, Thomas J., and G. O. Leopold, assignors to North Bro's Mfg. Co., Philadelphia, Pa. Display tool holder. 1,681,107; Aug. 14.
Felbel, Jacob, New York, assignor to Remington Typewriter Company, Hion, N. Y. Typewriting machine. 1,680,973; Aug. 14.
Felix, Friedrich, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Product valuable as dispersing agent and making same. 1,680,778; Aug. 14.
Fellows Gear Shaper Company, The. (See Miller, Edward W., assignor.)
Fellows, Walter C., Philadelphia, Pa., assignor to C. R. Carver Company. Inking device for printing and embossing machines. 1,680,530; Aug. 14.
Fenn, Loren C., Chinook, Wash. Pile scraper. 1,680,372; Aug. 14.
Ferguson, Royce G. (See Howell, T. H., and Ferguson.)
Fesler, Milton A., Stamford, Conn., and J. N. MacRae, Jersey City, N. J., assignors to Petroleum Heat and Power Company, New York, N. Y. Oil burner. 1,680,455; Aug. 14.
Field, Frank H., Jamestown, N. Y. Truck. 1,680,531; Aug. 14.
Fila, Walenty, Edwardsville, Pa. Propulsion device for ships. 1,681,108; Aug. 14.
Firestone, James F., assignor to The Beckwith Company, Dowagiac, Mich. Oven. 1,680,456; Aug. 14.
Firestone Tire and Rubber Company, The. (See Stevens, Horace D., assignor.)
Firestone Tire and Rubber Company, The. (See Uschmann, Curt, assignor.)
Fisher, Harry C., Cincinnati, assignor to The Richardson Company, Lockland, Ohio. Coloring mineral matter. 1,680,941; Aug. 14.
Fitts, Walter H., assignor to The Foxboro Company, Foxboro, Mass. Pressure-operated instrument. 1,681,109; Aug. 14.
Fitzgerald, Alan S., London, England, assignor to General Electric Company. Electric switch. 1,680,674; Aug. 14.
Fleming, George W. (See White, Muerk E., assignor.)
Fleming, Joseph P. (See Wakefield, C. E., Fleming, and Oliver.)
Fleming, James R., Scranton, Pa. Journal box for car wheels. 1,680,329; Aug. 14.
Fleury, Louis A., Indianapolis, Ind. Air moistener. 1,680,532; Aug. 14.
Floss, Carl W. (See Berry, Henry J., assignor.)
Flower, Arthur D. (See Allen, F. L., and Flower.)
Forbis, Hazel T., Missoula, Mont. Combined wash rag and soap holder. 1,681,031; Aug. 14.
Ford, Eugene A., Scarsdale, assignor to The Tabulating Machine Company, Endicott, N. Y. Card-feeding device. 1,680,863; Aug. 14.
Fokker, Anthony H. G., Amsterdam, Netherlands, assignor to Atlantic Aircraft Corporation. Undercarriage for aircraft. 1,680,511; Aug. 14.
Foster, Theodore W., & Brother Company. (See Wilson, Ralph W., assignor.)
Foxboro Company, The. (See Fitts, Walter H., assignor.)
Francis, Daniel R., assignor to The Waterbury Tool Company, Waterbury, Conn. Handwheel and locking device for speed gears. 1,680,975; Aug. 14.
Francis, Jacob R., Filut, Mich. Intake manifold and heating-medium control for internal-combustion engines. 1,680,373; Aug. 14.

Frantz, Cruthers I., Los Angeles, Calif. Air-brake apparatus. 1,680,533; Aug. 14.
Franzen, Adolph, near Howard, S. Dak. Automatic railway-crossing signal. 1,680,605; Aug. 14.
Fread, Guy, assignor of one-half to J. Manley, Enid, Okla. Electric-lighting fixture. 1,680,606; Aug. 14.
Frease, Hurxthal F., Canton, Ohio. Trussed structure. 1,680,976; Aug. 14.
Freeman, Benjamin W., Cincinnati, Ohio. Cut-out machine for shoe uppers. 1,681,038; Aug. 14.
Freeman, Jesse, Pittsburgh, Pa. Wardrobe. 1,680,864; Aug. 14.
Freeman, John C., Jeffersonville, Ind. Bread-splitting machine. 1,680,779; Aug. 14.
Freeman, Oscar W. (See Mings, J. F., and Freeman.)
French & Hecht, Inc. (See Einfeldt, Ernest E., assignor.)
Freyn Engineering Company. (See Willcox, Frederick H., assignor.)
Fried. Krupp Germaniawerft Aktiengesellschaft. (See Jahn, G., and Runkwitz, assignors.)
Friedley-Voshardt Co. (See Voshardt, Herman F., assignor.)
Friedman, William, New York, N. Y. Cooling vending container for drinks. 1,681,110; Aug. 14.
Fujii, Masao, Sendagaya-Machi, Toyotamagori, Japan. Neutralizing acidity or alkalinity of decomposed product or products by glutamic acid or its salts. 1,680,865; Aug. 14.
Fuller, Joseph C., West Newton, assignor to Northern Industrial Chemical Company, Boston, Mass. Hinged connection. 1,681,032; Aug. 14.
Funk, John E., assignor to Funk Soil Pulverizer Company, Stockton, Calif. Ground-working implement. 1,680,866; Aug. 14.
Funk Soil Pulverizer Company. (See Funk, John E., assignor.)
Funke, Konrad. (See Zinke, A., and Funke.)
Gaby, Walter E., Los Angeles, Calif. Tack lifter. 1,680,607; Aug. 14.
Gail, Jean-Baptiste, and N. Adam, Paris, France. Water purifier. 1,680,867; Aug. 14.
Gale, Arthur S., Yonkers, N. Y. Magnetic system to control the stop and leveling of elevators. 1,680,675; Aug. 14.
Gangmark, Severin, Seattle, Wash. Building block. 1,680,781; Aug. 14.
Garbutt, Allie G., Valdosta, Ga. Flash boiler. 1,680,608; Aug. 14.
Garbutt, Frank E., and R. G. Fear, Los Angeles, Calif., assignors to Famous Players-Lasky Corporation. Double prism registering device. 1,680,534; Aug. 14.
Gardner-Denver Company. (See Gardner, John W., assignor.)
Gardner, John E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,681,034; Aug. 14.
Gardner, John E., Wilkinsburg, Pa., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,681,035; Aug. 14.
Gardner, John W., Quincy, Ill., assignor, by mesne assignments, to Gardner-Denver Company. Pumping mechanism. 1,680,868; Aug. 14.
Gardner, John W., Quincy, Ill., assignor, by mesne assignments, to Gardner-Denver Company. Lubricating device. 1,680,869; Aug. 14.
Gardner, John W., Quincy, Ill., assignor, by mesne assignments, to Gardner-Denver Company. Lubricating mechanism. 1,680,870; Aug. 14.
Gardner, John W., Quincy, Ill., assignor, by mesne assignments, to Gardner-Denver Company. Lubricating mechanism. 1,680,871; Aug. 14.
Gardner, Percy, East Orange, N. J., assignor to H. M. Bunker & Co., New York, N. Y. Cloth-rolling machine. 1,680,979; Aug. 14.
Garfield, Isadore W., Bridgeton, N. J. Cushion. 1,681,111; Aug. 14.
Garner, James C., Houston, Tex. Cotton separator. 1,680,977; Aug. 14.
Garner, James C., Houston, Tex. Cotton-cleaning apparatus. 1,680,978; Aug. 14.
Garrow, Nora, Glasgow, Scotland, assignor to Robinson and Sons Limited, Chesterfield, England. Sanitary towel. 1,681,112; Aug. 14.
Gary, Hartwell H., Birmingham, Ala. Welded sheet-metal container. 1,680,535; Aug. 14.
Gathmann, Emil, Baltimore, Md. Ingot mold. 1,680,872; Aug. 14.
Gearing, Harry, Los Angeles, Calif., assignor to Nebraska Printing Company, Lincoln, Nebr. Reversing rollers and the like relative to each other. 1,680,676; Aug. 14.
Geiger, William A., assignor to W. H. Miner, Inc., Chicago, Ill. Draft-rigging key retainer. 1,680,330; Aug. 14.
Geiser, George B., assignor to Berger Brothers Company, Philadelphia, Pa. Gutter-hanger circle. 1,680,980; Aug. 14.
General Electric Company. (See Abbott, Charles C., assignor.)
General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
General Electric Company. (See Austin, Edward, assignor.)
General Electric Company. (See Bower, George W., assignor.)
General Electric Company. (See Connell, Amos C., assignor.)
General Electric Company. (See Courtin, Eberhard, assignor.)
General Electric Company. (See De Tar, Donald R., assignor.)
General Electric Company. (See Dietze, Richard, assignor.)
General Electric Company. (See Fitzgerald, Alan S., assignor.)
General Electric Company. (See Hayman, William C., assignor.)
General Electric Company. (See Herzog, Eugene, assignor.)
General Electric Company. (See Hull, Albert W., assignor.)
General Electric Company. (See Kennedy, Luke F., assignor.)
General Electric Company. (See Leevers, Frederic W., assignor.)
General Electric Company. (See Maxwell, Howard, assignor.)
General Electric Company. (See Nolte, Henry J., assignor.)
General Electric Company. (See Stancliff, Ray L., assignor.)
General Electric Company. (See Stein, Theodor, assignor.)
General Electric Company. (See Steiner, Oscar, assignor.)
General Electric Company. (See Thomson, Elihu, assignor.)
General Electric Company. (See Traver, Oliver C., assignor.)
General Electric Company. (See Winter, Fred H., assignor.)
General Railway Signal Company. (See Day, Salisbury M., assignor.)
General Railway Signal Company. (See Larry, Edwin C., assignor.)
General Railway Signal Company. (See Prescott, Charles W., assignor.)
General Railway Signal Company. (See Ross, Oscar A., assignor.)
Gensmer, Theodore, Portland, Oreg. Hydraulic jack. 1,680,536; Aug. 14.
Genuine Bronze Fixture Co. Inc. (See Sobel, Joseph, assignor.)
Germain, Herman. (See Karpe, Jacob, assignor.)
Gilbert & Barker Manufacturing Company. (See Davis, John B., assignor.)
Gilbert, Henry J., assignor to Saginaw Manufacturing Co., Saginaw, Mich. Making sheet-metal pulleys. 1,680,985; Aug. 14.
Gillingham, Alfred, and E. Bjork, Regina Beach, Saskatchewan, Canada. Grain-car door for box cars. 1,681,113; Aug. 14.
Gilowitz, Benjamin, New York, assignor of one-half to H. Aronstam, Bronx, New York, N. Y. Heel-lift-attaching means. 1,680,374; Aug. 14.
Gilson, DaDyton H., Rushville, Ind. Lever attachment for remote clutch controls. 1,680,780; Aug. 14.
Ginder, William H., Haddonfield, N. J., assignor to Electro Dental Manufacturing Company, Philadelphia, Pa. Electric fans. Des. 76,012; Aug. 14.
Gladden, James R., jr., Wathena, Kans. Tire-chain fastener. 1,680,981; Aug. 14.
Globe Lighting Fixture Manufacturing Company, The. (See Petersen, Thorvald J., assignor.)
Goeller, Lawrence E., Circleville, Ohio. Bristle-holding device for brushes and brooms. 1,680,512; Aug. 14.
Goerk, Edward G. and G., Irvington, N. J. Device for animating objects. 1,680,982; Aug. 14.
Goerk, Gustav. (See Goerk, Edward G. and G.)
Goldberg, Louis. (See Schriebman, H. and Goldberg.)
Golladay, Lawrence R. (See Crichton, L. N., and Golladay.)
Goodman Manufacturing Company. (See Davis, Charles E., assignor.)
Goodman Manufacturing Company. (See Gray, Walter S., assignor.)
Goodman Manufacturing Company. (See Pray, Thomas E., assignor.)
Gordon, Allan A., assignor to Paye & Baker Manufacturing Co., North Attleboro, Mass. Combined spoon and fork or similar article. Des. 76,013; Aug. 14.
Gordon, Julius L., Brooklyn, N. Y. Radiator cover and electric heater. 1,681,114; Aug. 14.
Gormley, Frank L., Brookline, Mass., assignor to The Buda Company, Harvey, Ill. Lifting jack. 1,680,514; Aug. 14.
Gormley, Frank L., Brookline, Mass., assignor to The Buda Company, Harvey, Ill. Ratchet mechanism for lifting jacks. 1,680,515; Aug. 14.
Gosselink, John G. (See Richter, G. A., Van Arsdel, and Gosselink.)
Gottschalk, Albert, New York, N. Y. Automatic drain valve. 1,680,288; Aug. 14.
Goutal, Edouard. (See Hennebutte, H., and Goutal.)
Graeff, Clement H., Lakewood, assignor to The Auto Tool & Gauge Company, Cleveland, Ohio. Hair-clipping device. 1,680,289; Aug. 14.
Graf, George B., and F. E. Whitman, Shawnee, Okla. Combined liquid container and sprayer. 1,680,983; Aug. 14.
Graham Glass Company, The. (See Miller, Frank R., assignor.)

Grames, Lawrence R., assignor of one-half to J. N. Bryson and R. R. Murray, Wellsville, N. Y. Engine valve. 1,680,516; Aug. 14.
Grand Rapids Metalcraft Corporation. (See De Boer, Rudolph, assignor.)
Grasselli Dyestuff Corporation. (See Kirchelsen, T., and Gürtler, assignors.)
Gravillon, Auguste E. H., Paris, France. Speed-reducing control. 1,680,874; Aug. 14.
Gray, Reuben G., Canterbury, near Sydney, Australia. Race-starting machine. 1,680,875; Aug. 14.
Gray, Walter S., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,680,942; Aug. 14.
Graybar Electric Company. (See Dailey, Edward J., jr., assignor.)
Grein, Conrad, Evansville, Ind. Whistle. Des. 76,014; Aug. 14.
Greiner, William P., and H. Morahead, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Form carrier for drying machines. 1,681,143; Aug. 14.
Gregory, Ernest, New Haven, assignor to The Lyons Manufacturing Company, Hamden, Conn. Cigarette case. 1,680,782; Aug. 14.
Grip-Lite Manufacturing Company. (See Bloom, L., and Cohan, assignors.)
Grizzard, Horace H. (See Harman, William H., assignor.)
Groby, John M. L., Newton, Mass. Bottle closure. 1,681,036; Aug. 14.
Grooms, Walter W., Cleveland, Ohio. Salvage gas generator for internal-combustion engines. 1,680,537; Aug. 14.
Gross, Arthur R., St. Paul, assignor to Gross Metal Products Company, Minneapolis, Minn. Metal door construction. 1,680,538; Aug. 14.
Gross Metal Products Company. (See Gross, Arthur R., assignor.)
Gross, Miriam, assignor to Miriam Gross Company, Milwaukee, Wis. Knitted dress. Des. 76,015; Aug. 14.
Gross Viktor, et al. (See Bekesch, Anna, assignor.)
Grotta, Sidney S., assignor to Hartford-Empire Company, Hartford, Conn. Glass-feeding method and apparatus. 1,680,735; Aug. 14.
Grove, John J., Detroit, Mich. Diestock. 1,680,984; Aug. 14.
Grundy, James, Paterson, N. J. Baseball score card. 1,680,609; Aug. 14.
Gruska, John, et al. (See Hadi, Ali, assignor.)
Gruska, Ted, et al. (See Hadi, Ali, assignor.)
Guerris, Alfonso O., Barcelona, Spain. Bottle-dispensing device. 1,680,876; Aug. 14.
Gürtler, Johannes. (See Kirchelsen, T., and Gürtler.)
Guth, Edwin F., St. Louis, Mo. Lighting fixture. 1,680,677; Aug. 14.
Gutsmann, Fritz, Charlottenburg, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. High-frequency apparatus. 1,680,783; Aug. 14.
Guy, George W., Chicago, Ill. Fireplace. 1,680,513; Aug. 14.
Hadi, Ali, Springwells, assignor of two-thirds to T. and J. Gruska and one-third to W. Ray, Fordson, Mich. Box. 1,680,539; Aug. 14.
Hadley Company, The. (See Tost, Charles R., assignor.)
Häggiund, Erik, Abo, Finland. Treating and utilizing the black liquor obtained in the manufacture of soda and sulphate cellulose. 1,680,540; Aug. 14.
Hagopian, Vahan, New York, assignor to Pass & Seymour, Inc., Solvay, N. Y. Lighting-fixture wall bracket. Des. 76,016; Aug. 14.
Hall, Frederick H., Holford, near Bridgwater, England. Celluloid window. 1,681,037; Aug. 14.
Hallburton, Eric P., Los Angeles, Calif. Method and apparatus for hydrating cement and the like. 1,680,678; Aug. 14.
Halpert, Max, New York, N. Y. Ventilated rodentproof clothes hamper. Des. 76,017; Aug. 14.
Hamilton, Perry H., Baltimore, Md., assignor to Maintenance Equipment Company, Chicago, Ill. Wheel-flange oiler. 1,680,200. Aug. 14.
Hammond, William P. (See Buel, Hillhouse, assignor.)
Hamonds, Robert, Cleveland, Ohio. Fluid-pressure engine. 1,680,877; Aug. 14.
Hamren, Eric O., assignor to Chain Belt Company, Milwaukee, Wis. Concrete mixing and distributing machine. 1,680,878; Aug. 14.
Hancock, John W. (See Hancock, William T. and J. W.)
Hancock, William T. and J. W., Long Beach, Calif. Oil-cracking still. 1,680,541; Aug. 14.
Harding, Earle A. (See Brown, M. J., and Harding.)
Harding, Thomas, Newark, N. J., assignor to J. L. Sommer Manufacturing Co. Corkscrew. 1,680,291; Aug. 14.
Hardy, Albert T. R., Atlanta, Ga. Automobile radiator cap. Des. 76,018; Aug. 14.
Harelik, Ely W., Detroit, Mich. Expansible brake. 1,680,986; Aug. 14.
Hargrave, Fred W., South River, N. J. Door. 1,680,987; Aug. 14.
Harman, William H., assignor of one-half to H. H. Grizzard, Nashville, Tenn. Slicer. 1,680,988; Aug. 14.
Harmon, Mary Y., Laguna Beach, Calif. Batik-frame support. 1,680,610; Aug. 14.
Harris, Elbert, Charlottesville, Va. Self-setting mouse and rat trap. 1,680,878; Aug. 14.
Harris, Joseph R., Washington, D. C. Garage-door-operating mechanism. 1,680,517; Aug. 14.
Hart, William E., San Jose, Calif. Automobile bumper. 1,680,879; Aug. 14.
Hartford-Empire Company. (See Arbelt, Pierre, assignor.)
Hartford-Empire Company. (See Bench, Thomas E., assignor.)
Hartford-Empire Company. (See Black, Jotham, assignor.)
Hartford-Empire Company. (See Grotta, Sidney S., assignor.)
Hartford-Empire Company. (See Howard, George E., assignor.)
Hartford-Empire Company. (See Ingle, Henry W., assignor.)
Hartford-Empire Company. (See Miller, William J., assignor.)
Hartford-Empire Company. (See Peiler, Karl E., assignor.)
Hartford-Empire Company. (See Peiler, K. E., and Lorenz, assignors.)
Hartrampf, Otto B. (See Hartrampf, Robert C. and O. B.)
Hartrampf, Robert C. and O. B., Hillsboro, Oreg. Sorting machine. 1,680,880; Aug. 14.
Harvey, Lee, Los Angeles, Calif. Quick-relining brake. 1,680,611; Aug. 14.
Haseltine, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,680,292; Aug. 14.
Haseltine, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,680,293; Aug. 14.
Haseltine, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,680,612; Aug. 14.
Haskell, Broderick, Franklin, assignor to Pittsburgh Steel Foundry Corporation, Glassport, Pa. Truck bolster. 1,681,154; Aug. 14.
Hawkins, Henry. (See Hill, E. H., and Hawkins.)
Hawxhurst, John J., assignor to Liquid Dispensing Systems, Inc., Brooklyn, N. Y. Liquid-delivery apparatus. 1,680,457; Aug. 14.
Hayek, Andrew A. (See Svanberg, Gustav A., assignor.)
Hayman, William C., Schenectady, N. Y., assignor to General Electric Company. High-tension underground cable. 1,680,679; Aug. 14.
Hazeltine Corporation. (See MacDonald, William A., assignor.)
Heart, Herbert L., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Control system for elevators. 1,680,784; Aug. 14.
Hedén, Gustaf, New York, N. Y. Buoying and driving mechanism for flying machines. 1,680,680; Aug. 14.
Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. Control mechanism for change making and ejecting devices. 1,680,458; Aug. 14.
Heeter, Allen, and W. G. Mattern, assignors to The Vulcan Last Company, Portsmouth, Ohio. Golf clug. 1,680,881; Aug. 14.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,680,414; Aug. 14.
Hemphill, William N., assignor to The T. Eaton Co. Limited, Toronto, Ontario, Canada. Marking tag. 1,680,459; Aug. 14.
Hendey Machine Company, The. (See Bouillon, Constant, assignor.)
Hendrickson, Elias E., Watervliet, N. Y., and G. C. Dixon, Indianapolis, Ind. Railroad tie. 1,681,115; Aug. 14.
Hengstenberg, Paul M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Coil mounting. 1,680,415; Aug. 14.
Hennebutte, Henri, and E. Goutal, Paris, France. Carbonizing apparatus. 1,680,613; Aug. 14.
Herman, Joseph, Westfield, N. J. and F. J. Singer, Rockville Center, N. Y., assignors to American Telephone and Telegraph Company. Telegraph circuit. 1,680,376; Aug. 14.
Hermanson, Sune. (See Andrus, O. E., and Hermanson.)
Herr, Herbert T., Merion, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine. 1,680,785; Aug. 14.
Hershey, Clarence L., Leaman Place, Pa. Time-actuated electric switch. 1,681,116; Aug. 14.
Herzog, Eugene, Lynn, Mass., assignor to General Electric Company. Treating silica articles. 1,680,681; Aug. 14.
Hibner, Ole, Cleveland, Ohio. Massaging apparatus. 1,680,989; Aug. 14.
Hicks, William W. (See Kercher, Arthur J., assignor.)
Hicks, William W. (See Kercher, A. J., and Hicks.)
Higham, Harry, Newark, N. J. Oxford eyeglasses. 1,681,038; Aug. 14.
Hilke, Henry C., Seattle, Wash. Sawing machine. 1,680,331; Aug. 14.
Hill, Edgar H., and H. Hawkins, Nottingham, England. Warp-knitting machine. 1,680,614; Aug. 14.
Hintze, James A., Davenport, Iowa. Concrete former. 1,680,542; Aug. 14.
Hirst, John A., Chester, England. Switch gear for starting and controlling electric motors. 1,680,682; Aug. 14.
Hitzemann, Mathew B., Hutchinson, Kans. Signal casing. Des. 76,019; Aug. 14.
Hoba, August, Seattle, Wash. Carton-folding machine. 1,680,615; Aug. 14.
Hocker Corporation, The. (See Hocker, Ivan S., assignor.)

Hocker, Ivan S., assignor to The Hocker Corporation, Philadelphia, Pa. Extracting fats from vegetable matter. 1,680,943; Aug. 14.

Hodgkins, Charles H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Magnet switch. 1,680,416; Aug. 14.

Hodgkinson, Francis, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Elastic-fluid turbine. 1,680,737; Aug. 14.

Hodgkinson, Francis, and R. C. Allen, Swarthmore, Pa., assignors to Westinghouse Electric & Manufacturing Company. Turbine-valve mechanism. 1,680,786; Aug. 14.

Hoevel, Herman F. (See Menne, Fritz, assignor.)

Hoglund, Gabriel E., Seattle, Wash. Automatic stop and slow light signal. 1,680,944; Aug. 14.

Holden, William H. T., Bloomfiled, N. J., assignor to Westinghouse Lamp Company. Protective device. 1,680,518; Aug. 14.

Holden, William H. T., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Alternating potential generator. 1,680,377; Aug. 14.

Hollen, Carl, Bemidji, Minn. Liner and can construction. 1,680,882; Aug. 14.

Holophane Company. (See Ingler, William A., assignor.)

Holst, Gilles, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Electrode for discharge tubes. 1,681,149; Aug. 14.

Holzapfel, Karl W., Larned, Kans. Metal candy-molding device. 1,680,294; Aug. 14.

Homrighous, John H., Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone trunking system. 1,681,039; Aug. 14.

Hood, Luther H., and J. J. Culwell, Houston, Tex. Window-sash holder. 1,680,786; Aug. 14.

Hopkinson, Joseph, assignor to Dayton Scale Company, Dayton, Ohio. Weighing scale. 1,680,683; Aug. 14.

Horst, Friedrich W., Neckargemund, Germany. Sealed package. 1,680,616; Aug. 14.

Horton, Bryson D., assignor to Square D. Company, Detroit, Mich. Universal adapter. 1,680,787; Aug. 14.

Hosford, Leonard V., Portland, Oreg. Internal-combustion engine. 1,680,883; Aug. 14.

Houck, John D., Chicago, Ill. Coffee-making device. 1,680,519; Aug. 14.

Houston, Harold A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Railway vehicle. 1,680,417; Aug. 14.

Howard, George E., Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Feeding molten glass. 1,680,543; Aug. 14.

Howcott, Harley A. W., Baton Rouge, La. Cleanable trap for sinks and the like. 1,681,117; Aug. 14.

Howell, Albert S., assignor to Bell & Howell Company, Chicago, Ill. Motion-picture apparatus. 1,680,295; Aug. 14.

Howell, Theodore H., Melbourne, and R. G. Ferguson, St. Kilda, Victoria, Australia. Telephone. 1,680,990; Aug. 14.

Hudnut, Richard. (See Pfeiffer, Charles L., assignor.)

Hugoniot, Lucien. (See Bouvier, M. E., and Hugoniot.)

Huguenin, Albert, Paris, France. Driving axle of the single type comprising loose vehicle wheels mounted upon stationary axles. 1,680,884; Aug. 14.

Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Seal for electric devices. 1,680,738; Aug. 14.

Hull, Samuel P., Yonkers, J. J. Corcoran, Albany, and E. A. Everett, New York, N. Y. Lock for interlocking levers. 1,680,617; Aug. 14.

Hunter, Gaius C., Buffalo, N. Y. Figure wheeled toy. 1,680,991; Aug. 14.

Huntington Auto Supply Company, The. (See Adkins, Elba O., assignor.)

Hutton, Earl S., assignor of one-third to A. H. Pearson, Detroit, Mich. Locking mechanism. 1,680,618; Aug. 14.

Hydraulic Brake Company. (See Loughead, Malcolm, assignor.)

Hygienic Fibre Company. (See Remley, Ernest, assignor.)

Hyle, Jacob A., Atlantic City, N. J., and C. R. Keatley, Los Angeles, Calif., assignors to Continental Railway Supply Corporation. Railway-rail anchor. 1,680,378; Aug. 14.

Hynes, Lee P., assignor, by mesne assignments, to Consolidated Car-Heating Company, Inc., Albany, N. Y. Electric heating system. 1,680,379; Aug. 14.

I. G. Farbenindustrie Aktiengesellschaft. (See Benda, Louis, assignor.)

I. G. Farbenindustrie, Aktiengesellschaft. (See Lang, Hermann, assignor.)

Ideal Lubricator Company. (See Culp, John F., assignor.)

Illinois Watch Case Company. (See Bowen, George W., assignor.)

Indiana Lamp Corporation. (See Albright, Edward C., assignor.)

Indianapolis Corporation. (See Dnesenberg, Frederick S., assignor.)

Industry Chemical Company. (See Okell, Stanley A. W., assignor.)

Ingersoll, Howard L., Pound Ridge, N. Y. Draft connection. 1,680,885; Aug. 14.

Ingle, Henry W., assignor to Hartford-Empire Company, Hartford, Conn. Blowing glassware. 1,680,544; Aug. 14.

Ingler, William A., Newark, Ohio, assignor, by mesne assignments, to Holophane Company, Inc., New York, N. Y. Metal collar for luminaries. 1,680,788; Aug. 14.

Insulex Corporation. (See Ashenhurst, Harold S., assignor.)

International Harvester Company. (See Benjamin, Bert R., assignor.)

International Postal Supply Company. (See Zahn, Lawrence J., assignor.)

International Time Recording Company of New York. (See Kellien, Saul, assignor.)

International Time Recording Company of New York. (See Larrabee, Clinton E., assignor.)

Isbills, William L., Elizabeth, N. J. Method and apparatus for producing colored projected pictures. 1,680,695; Aug. 14.

Jack, Ada L., Kansas City, Mo. Book end. Des. 76,020; Aug. 14.

Jacobson, Herman W., assignor of one-third to F. M. Tice, Fonda, Iowa. Wrench. 1,680,789; Aug. 14.

Jahn, Gottlieb, Kiel, and A. Runkwitz, Elenschenhagen, near Kiel, assignors to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel-Gaarden, Germany. Horizontal waste-gas steam boiler. 1,680,380; Aug. 14.

Janoir, Louis, St.-Ouen, France. Device for mounting glasses on the doors of vehicles. 1,680,886; Aug. 14.

Jarvis, Nelson L. (See Dauphalse, Noah L., assignor.)

Jaschke, Otto, Crowley, La. Extracting, separating, and utilizing the starch and protein contents of rice. 1,681,118; Aug. 14.

Jebb, Clara, Orillia, Ontario, Canada. Thread cutter for sewing machines. 1,680,992; Aug. 14.

Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)

Jennings, Irving C., South Norwalk, Conn. Apparatus for supplying dehumidified air to ice-making plants. 1,680,381; Aug. 14.

Jennings, Irving C., South Norwalk, Conn. Self-priming centrifugal liquid pump. 1,680,382; Aug. 14.

Jennings, Oliver S., and F. G. von Hoorn, Mansfield, Ohio, assignors to Westinghouse Electric and Manufacturing Company. Inclosed switch mechanism. 1,680,418; Aug. 14.

Jewell, Raymond L., Millcreek Township, Erie County, assignor to American Sterilizer Company, Erie, Pa. Door mounting. 1,680,332; Aug. 14.

Jewett, Nelson S., Tulsa, Okla. Road sign. 1,680,545; Aug. 14.

Jobst, Conrad, assignor to The Toledo Automatic Brush Machine Company, Toledo, Ohio. Workholder for brush holding machines. 1,680,520; Aug. 14.

Jobst, Conrad, assignor to The Toledo Automatic Brush Machine Company, Toledo, Ohio. Universal brush machine. 1,680,521; Aug. 14.

Johnson Automatic Sealer Co. (See Taylor, William L., assignor.)

Johnson, Frank O., assignor to Reliance Die & Stamping Company, Chicago, Ill. Electrostatic condenser. 1,680,546; Aug. 14.

Johnson, Samuel G., Tucson, Ariz. Tie-band-securing device for trunks and the like. 1,680,993; Aug. 14.

Johnston, Howard L., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Flood light. 1,681,153; Aug. 14.

Jonas, Julius, Melerhof, Baden, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. System for regulating the direct-current voltage in metal-vapor-rectifier installations. 1,680,790; Aug. 14.

Jones, Lloyd, Millville, N. J., assignor to Acme Steel Company, Chicago, Ill. Method of and mill for rolling strips and sheets. 1,680,522; Aug. 14.

Jones, Orsemus L. R., Detroit, Mich. Aeroplane. 1,680,523; Aug. 14.

Jones, William A., West New Brighton, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler furnace. 1,680,945; Aug. 14.

Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-trimming machine. 1,680,383; Aug. 14.

Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Trimming machine. 1,680,384; Aug. 14.

Judd, Arthur, C., New York, N. Y. Rod packing. 1,680,684; Aug. 14.

Judd, H. L., Company. (See Dlouhy, August, assignor.)

Judd, H. L., Company. (See Vermillion, Raymond H., assignor.)

Jury, Walter H., Sausalito, Calif. Curtain-testing frame. 1,680,547; Aug. 14.

Kalina, Loeser, Brooklyn, N. Y. Envelope. 1,680,946; Aug. 14.

Kansas City Gasoline Company. (See Wellman, Frank E., assignor.)

Karasiewicz, Joseph, South Amboy, N. J. Double sun spectacle. 1,680,995; Aug. 14.

Karpe, Jacob, assignor to H. Germain, New York, N. Y. Dispenser for soaps, creams, or the like. 1,680,994; Aug. 14.

Katims, Harry, and E. Welner, New York, N. Y. Textile fabric. Des. 76,021; Aug. 14.

Keatley, Clarence R. (See Hyle, J. A., and Keatley.)

Keilien, Saul, Binghamton, assignor to International Time Recording Company of New York, Endicott, N. Y. Controlling system for motor-driven clocks. 1,680,686; Aug. 14.

Kelser, Paul L., Douglassville, Pa. Highway guard. 1,680,548; Aug. 14.

Kekenes, Peter E., Washington, D. C. Bottle. Des. 76,022; Aug. 14.

Keller, Wm. H., Inc. (See Shaff, Ernest H., assignor.)

Kellogg Switchboard and Supply Company. (See Stazak, Michael B., assignor.)

Kemikal Inc. (See Mellanoff, Isadore S., assignor.)

Kemp, Evina A., New York, N. Y. Device for displaying flowers. 1,681,040; Aug. 14.

Kennedy, Luke F., Schenectady, N. Y., assignor to General Electric Company. Synchronizing device. 1,680,739; Aug. 14.

Kennedy, Rosamond L., Hyde Park, London, England. Bust bodice. 1,681,119; Aug. 14.

Kennington, William O., London, England. Vacuum brake. 1,680,549; Aug. 14.

Kercher, Arthur J., Berkeley, and W. W. Hicks, San Francisco, Calif. Electric heater. 1,680,620; Aug. 14.

Kercher, Arthur J., Berkeley, assignor of one-half to W. W. Hicks, San Francisco, Calif. Electric heating unit. 1,680,621; Aug. 14.

Kercher, Arthur J., Berkeley, and W. W. Hicks, San Francisco, Calif. Electric water heater. 1,680,622; Aug. 14.

Kerr, Mark B., Roscbank, Staten Island, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 1,680,550; Aug. 14.

Kidwell Boiler Company. (See Appenzeller, Norman, assignor.)

Killinger, Alvin C. (See Crittenden, B. P., and Killinger.)

Killmnick, Samuel, Picher, Okla. Clothes drier. 1,680,524; Aug. 14.

Kimbrough, Charles E., Haynesville, La. Gas control. 1,681,041; Aug. 14.

King, Frank B., Wakefield, Mass. Chain hook. 1,680,551; Aug. 14.

King, Herbert F., Newtonville, Mass. Light projector. 1,680,685; Aug. 14.

Kinney, Maude I. F., Peoria, Ill. Backing device for the buttons of garments. 1,680,623; Aug. 14.

Kinney, Merton M. and G. D., Duluth, Minn. Collapsible tire rim. 1,680,887; Aug. 14.

Kinney, George D. (See Kinney, Merton M. and G. O.)

Kintz, Mary E., Los Angeles, Calif. Lingerie pin. 1,680,552; Aug. 14.

Kircheisen, Theodor, Dessau in Anhalt, and J. Gürtler, Offenbach-on-the-Main, Germany, assignors, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Producing fast dyeings on the fiber. 1,680,791; Aug. 14.

Kitchel, Robert R., Ridley Park, and J. L. Lippard, and J. E. Mullan, assignors to Bayuk Cigars, Incorporated, Philadelphia, Pa. Cigar-bunch machine. 1,680,996; Aug. 14.

Kizer, Clara M., Omaha, Nebr. Kitchen memo pad. 1,680,525; Aug. 14.

Kleinlercher, Anthony, Brooklyn, assignor to A. M. Sloss, New York, N. Y. Coffee urn. 1,680,792; Aug. 14.

Kloneck, August J., New York, N. Y. Signaling by high-frequency currents. 1,680,554; Aug. 14.

Kloss, Ernst, Falkensee, near Spandau, Germany, assignor to Westinghouse Electric & Manufacturing Company, Variable-speed set. 1,680,419; Aug. 14.

Kluck, John J., Macklin, Saskatchewan, Canada. Binding machine. 1,680,888; Aug. 14.

Kluck, John J., Macklin, Saskatchewan, Canada. Binding machine. 1,680,889; Aug. 14.

Knieszner, William T., New York, N. Y., assignor to The Safety Car Heating & Lighting Company. Storage-battery-charging system. 1,680,947; Aug. 14.

Knox, Harry A., and B. F. Baker, Davenport, Iowa. Flexible track for tracklaying vehicles. 1,680,624; Aug. 14.

Koeln, George R. (See Dnemier, V. E., and Koeln.)

Kooperstein, Louis, New York, N. Y. Water-supply faucet attachment. 1,680,333; Aug. 14.

Kootz, Arthur C. (See Schneider, William H., assignor.)

Kops Bros. Inc. (See Kops, Waldemar, assignor.)

Kops, Waldemar, New York, N. Y., assignor to Kops Bros. Inc. Apparel garment. 1,680,997; Aug. 14.

Krantz, Philip M., Brooklyn, N. Y. Route guidance. 1,680,998; Aug. 14.

Krotz, Alvaro S., Janesville, Wis. Tractor. 1,680,553; Aug. 14.

Kuchins, Harry L., St. Louis, Mo. Portable newspaper rack. Des. 76,023; Aug. 14.

Kuen, Eugene A., assignor to The Thomas J. Corcoran Lamp Company, Cincinnati, Ohio. Closure fastening. 1,681,042; Aug. 14.

Kupetz, Adolph G., New Rochelle, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,680,526; Aug. 14.

Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,680,527; Aug. 14.

Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,680,793; Aug. 14.

La Hatte, Cicero, Vicksburg, Miss. Store front or similar article. Des. 76,024; Aug. 14.

Lair, Robert, Kingston, Wash. Excavator. 1,680,555; Aug. 14.

Lair, Robert, Kingston, Wash. Steering mechanism. 1,680,556; Aug. 14.

La Jole, Hubert J., assignor to Auto Pneumatic Action Company, New York, N. Y. Automatic mechanism for operating drawers of automatic musical instruments. 1,680,385; Aug. 14.

Lake, Clair D., Binghamton, assignor to The Tabulating Machine Company, Endicott, N. Y. Printing tabulator. 1,680,740; Aug. 14.

Lalonde, Joseph A., Montreal, Quebec, Canada. Display form. 1,680,528; Aug. 14.

Lang, Henry T., assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Bearing structure for vacuum-cleaner brushes and the like. 1,680,741; Aug. 14.

Lang, Hermann, Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort, Germany. Producing phosphoric acid. 1,680,625; Aug. 14.

Langdon, Andrew, Port Jervis, N. Y., assignor, by mesne assignments, to Train Control Corporation of America. Automatic train-control apparatus. 1,680,999; Aug. 14.

Langdon Engineering Corporation. (See Langdon, Jesse D., assignor.)

Langdon, Jesse D., assignor to Langdon Engineering Corporation, Los Angeles, Calif. Fluid-pressure booster. 1,680,460; Aug. 14.

Lansing, Raymond P., Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,680,557; Aug. 14.

Larrabee, Clinton E., Binghamton, assignor to International Time Recording Company of New York, Endicott, N. Y. Driving device for program clocks. 1,680,742; Aug. 14.

Larry, Edwin C., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Check on light-signal lamps. 1,681,000; Aug. 14.

Larsen, Robert, New York, N. Y. Watchmaker's gauge. 1,681,121; Aug. 14.

Laugaudin, Eugène J., Paris, France. Pneumatic suspension device for vehicles. 1,680,890; Aug. 14.

Lauterbur, Edward J. (See Lauterbur, Frank X. and E. J.)

Lauterbur, Frank X. and E. J., Sidney, Ohio. Dough mixer. 1,680,948; Aug. 14.

Lawler, Ardis C., Ardmore, Okla. Auxiliary chair for vehicles. 1,680,794; Aug. 14.

Leach Company. (See Leach, Elbert C., assignor.)

Leach Company. (See Reuss, Arnold, assignor.)

Leach, Elbert C., assignor to Leach Company, Oshkosh, Wis. Mixer-drum construction. 1,680,296; Aug. 14.

Lebherz, Harry J., assignor to The Everedy Company, Frederick, Md. Bottle-capping tool. 1,681,144; Aug. 14.

Lebwohl, Benjamin, New York, N. Y. Laundry safety pin. 1,681,122; Aug. 14.

Ledbetter, James C., New York, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Press compensator. 1,680,891; Aug. 14.

Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Glass-run-channel construction. 1,680,461; Aug. 14.

Leevers, Frederic W., London, England, assignor to General Electric Company. Electric heating device. 1,680,743; Aug. 14.

Leff, Ruby, New York, N. Y. Stocking. Des. 76,025; Aug. 14.

Legg, Joseph W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Galvanometer. 1,680,420; Aug. 14.

Lehr, Charles E. (See Cort, S. J., Burns, Dougherty, and Lehr.)

Leland Electric Company, The. (See Leland, George H., assignor.)

Leland, George H., assignor of one-half to The Leland Electric Company, Dayton, Ohio. Brush-lifting device for electric motors. 1,680,795; Aug. 14.

L'Eufant, Charles, New York, N. Y. Bill fold. 1,680,687; Aug. 14.

Leopold, George O. (See Fegley, T. J., and Leopold.)

Lesquendieu, J., Inc. (See Lesquendieu, Joseph, assignor.)

Lesquendieu, Joseph, Paris, France, assignor to J. Lesquendieu Inc., New York, N. Y. Container for collapsible tubes. 1,680,462; Aug. 14.

Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining machine. 1,680,386; Aug. 14.

Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Apparatus for loading cars. 1,681,001; Aug. 14.

Lewis, Floyd M., Pascagoula, Miss. Plumb bob. 1,680,297; Aug. 14.

Lewis, James O., and H. R. Pierce, Tulsa, Okla. Testing device. 1,680,334; Aug. 14.

Lewis, Joseph W., jr., assignor to The Atlantic Refining Company, Philadelphia, Pa. Fractional distillation. 1,680,421; Aug. 14.

Liberman Manufacturing Company. (See Schütz, Conrad, assignor.)

Lindstrom, Frank L., Bridgeport, Conn. Spinning head for spinning tops. 1,680,423; Aug. 14.

Liquid Dispensing Systems, Inc. (See Hawxhurst, John J., assignor.)

Lippard, Jesse L. (See Kitchel, R. R., Lippard, and Mullan.)

Little, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,680,422; Aug. 14.

Lock, John A., Buffalo, N. Y. Chimney flashing. 1,680,298; Aug. 14.
Loiselle, Guy L., Evanston, Ill. Toothbrush. 1,680,558; Aug. 14.
Londagin, Frederick G., Seattle, Wash. Purifying device. 1,681,002; Aug. 14.
Lord & Burnham Company. (See Terhune, Edwin W., assignor.)
Lorenz, C., Aktiengesellschaft. (See Schmidt, Karl, assignor.)
Lorenz, Edward H. (See Peller, K. E., and Lorenz.)
Lorenz, William A., West Hartford, assignor to The Otaka Fabric Company, Hartford, Conn. Paper-crinkling apparatus. 1,680,797; Aug. 14.
Lostetter, Edward H., assignor to T. F. Costello, Cincinnati, Ohio. Vehicle washer. 1,680,796; Aug. 14.
Lotz, Alfred F. C., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Rheostat. 1,680,744; Aug. 14.
Loughhead, Malcolm, assignor to Hydraulic Brake Company, Detroit, Mich. Brake shoe. 1,680,911; Aug. 14.
Low, James F., Toronto, Ontario, Canada. Pulp suction die. 1,680,892; Aug. 14.
Low, James F., Toronto, Ontario, Canada. Vacuum control mechanism for pulp-molding machines and the like. 1,680,893; Aug. 14.
Lucas, Emil A., Washington, assignor to Molybdenum Corporation of America, Pittsburgh, Pa. Molybdenum alloying compound. 1,681,123; Aug. 14.
Lucas, Emil A., Washington, assignor to Molybdenum Corporation of America, Pittsburgh, Pa. Manufacturing molybdenum alloying compounds. 1,681,124; Aug. 14.
Lucas-Girardville, Paul N., Paris, France. Storing and transporting gases. 1,680,873; Aug. 14.
Lukens, Alan R., Wyoming, assignor to The Richardson Company, Cincinnati, Ohio. Deinking paper. 1,680,949; Aug. 14.
Luyken, Hugo, Bielefeld, Germany. Cupola with forehearth. 1,681,043; Aug. 14.
Lykken, Henry G., Minneapolis, Minn. Pulverizer. 1,680,894; Aug. 14.
Lymburner, Armand, Verdun, Quebec, Canada, assignor of one-half to J. J. Driscoll, Chicago, Ill. Car replacer. 1,680,895; Aug. 14.
Lyons Manufacturing Company, The. (See Gregory, Ernest, assignor.)
Lyth, John J., Valleyfield, Quebec, Canada. Bleachery reel. 1,680,387; Aug. 14.
Mabee, Alexander C. (See Dienner, J. A., and Mabee.)
Mabee, Elliott B., Brooklyn, N. Y. Mounting negatives for diagnoses. 1,680,299; Aug. 14.
MacDonald, William A., Little Neck, N. Y., assignor to Hazeltine Corporation, Jersey City, N. J. Amplifying system. 1,680,424; Aug. 14.
Mackres, Vasilios S., Brockton, Mass. Glass washer. 1,681,003; Aug. 14.
MacRae, James N. (See Fesler, M. A., and MacRae.)
Madvig, Gunnar, Oakland, Calif. Center ornament for drapery poles or rods. Des. 76,026; Aug. 14.
Madvig, Gunnar, Oakland, Calif. Center ornament for drapery poles or rods. Des. 76,027; Aug. 14.
Magaziner, Frank, Springfield, Mass. Bread-roll press. 1,680,463; Aug. 14.
Mahan, Joseph R. (See Wright, C. S., and Mahan.)
Maintenance Equipment Company. (See Hamilton, Perry H., assignor.)
Majestic Lamp Works. (See Silberhartz, Philip, assignor.)
Malik, Emanuel, Everson, Pa. Safety trigger for pneumatic tools. 1,681,044; Aug. 14.
Mallory, Louis V., assignor of one-half to R. F. Best, Kansas City, Mo. Cylinder-saddle milling machine. 1,680,300; Aug. 14.
Manley, John. (See Fread, Guy, assignor.)
Manton, Frank W., Toronto, Ontario, Canada. Inking means for printing machines. 1,680,559; Aug. 14.
Mapel, Lewis A., assignor to The Automatic Appliance Company, St. Louis, Mo. Indicating device for internal-combustion engines. 1,680,425; Aug. 14.
Marcalus, Nicholas. (See Randolph, C. F., Rausch, and Marcalus.)
Marks, Alexander A., Philadelphia, Pa. Gas-fired boiler. 1,681,045; Aug. 14.
Marks, Jacob M., New York, N. Y. Loud speaker. Des. 76,028; Aug. 14.
Markwick, Frederick, Falls, Pa. Antiskidding link. 1,681,125; Aug. 14.
Marquette Tool & Mfg. Company. (See Rode, Frederich J., assignor.)
Marr, Robert A., Norfolk, Va. Manufacture of fiber board. 1,680,896; Aug. 14.
Marresford, William F., Niagara Falls, N. Y. Paper-rolling machine. 1,681,046; Aug. 14.
Martindale, Homer D., Middletown, Ohio. Apparatus for making pulp or the like. 1,680,912; Aug. 14.
Marymont, Max J., Brooklyn, N. Y. Woman's hand bag or pocketbook. 1,680,464; Aug. 14.
Mason, Carl T., East Orange, assignor to Tiffany Manufacturing Co., Newark, N. J. Electrical measuring instrument. 1,680,465; Aug. 14.
Mason, Frank C., assignor to Metal Stampings Corporation, Streator, Ill. Wood-center sweeper wheel. 1,680,950; Aug. 14.
Mather Spring Company, The. (See Nilsson, Robert W., assignor.)
Matheson, Martin H., Detroit, Mich. Manufacturing automobile fenders. 1,680,467; Aug. 14.
Mathews Gravity Carriers Company. (See Adams, Charles A., assignor.)
Mattern, William G. (See Heeter, A., and Mattern.)
Matteson, Jesse V., jr., Santa Rosa, Calif. Practice device for golfers. 1,680,897; Aug. 14.
Matthews, Howard D., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Thermostatic switch. 1,680,426; Aug. 14.
Matti, Jean, Pully, Switzerland. Making baked food products. 1,680,898; Aug. 14.
Maupin, Graves R., assignor to The J. Faessler Manufacturing Company, Moberly, Mo. Flaring expander. 1,680,798; Aug. 14.
Maxwell, Howard, Schenectady, N. Y., assignor to General Electric Company. Induction motor. 1,680,688; Aug. 14.
Mayer, Alexander, et al. (See Bekesch, Anna, assignor.)
Mayer, William H., jr., New York, N. Y. Textile fabric. Des. 76,029; Aug. 14.
Mayne, Daniel I. (See Ulrey, D., and Mayne.)
McCall, Arthur B., Springfield, Ill. Terminal connecter. Des. 76,030; Aug. 14.
McCall, William B., Cincinnati, Ohio. Power-transmission device. 1,680,899; Aug. 14.
McDonald, Frank. (See Ernst, Charles A., assignor.)
McDonald, George A., Pasadena, Calif. Adjustable bracket. 1,680,560; Aug. 14.
McDonnell, George E., assignor of one-half to T. F. McDonnell, Cedar Rapids, Iowa. Pipe-flange tool. 1,681,126; Aug. 14.
McDonnell, Thomas F. (See McDonnell, George E., assignor.)
McLean, Frank W., Shreveport, La. Window. 1,680,388; Aug. 14.
McOlvin, Edward P., Wolf Summit, W. Va. Lamp. 1,680,389; Aug. 14.
McQuaid, John W., Filmore, Calif. Casing head. 1,680,900; Aug. 14.
McVeety, Charles, Cheltenham, Pa. Holding and guiding means for sliding partitions. 1,680,561; Aug. 14.
Meads, Walter, assignor to Acme Lace Works, Inc., Hightstown, N. J. Lace medallion. Des. 76,031; Aug. 14.
Mechanical Rubber Company, The. (See Rose, Reed P., assignor.)
Meese, James. (See Clark, J., Smith, and Meese.)
Mellanoff, Isadore S., assignor to Kemikal Inc., Philadelphia, Pa. Plastic material from peat and process of producing. 1,681,155; Aug. 14.
Mellanoff, Isadore S., Philadelphia, Pa., assignor to Kemikal Inc. Manufacturing oxygen-containing compounds of the aliphatic series. 1,681,156; Aug. 14.
Melton, Sherman, Sturgis, Ky. Power-factor control for power systems. 1,681,004; Aug. 14.
Melton, Sherman, Sturgis, Ky. Power-factor control for power distribution. 1,681,005; Aug. 14.
Menne, Fritz, Weidenau-on-the-Sieg, Germany, assignor to H. F. Hoevel, New York, N. Y. Furnace. 1,680,468; Aug. 14.
Merrimack Manufacturing Company. (See Page, Judith, assignor.)
Merton, Percy, Park Ridge, N. J. Article of headwear. 1,681,006; Aug. 14.
Messer, Edward, Cincinnati, Ohio. Display and dispensing container. 1,680,335; Aug. 14.
Metal Stampings Corporation. (See Mason, Frank C., assignor.)
Methlin, Nicolas E., assignor to Schneider & Cie., Paris, France. Setting device for time fuses. 1,680,902; Aug. 14.
Meyer, Ludwig, Paris, France. Extensible device with power indicator for physical culture. 1,680,901; Aug. 14.
Meyer, William, Gladbrook, Iowa. Ventilated building block. 1,680,626; Aug. 14.
Miles, Lester H., Los Angeles, Calif. Dirigible spotlight for vehicles. 1,680,903; Aug. 14.
Miller, Edward W., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Gear-generating machine. 1,680,562; Aug. 14.
Miller, Edward W., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Machine for inspecting involute curves. 1,680,563; Aug. 14.
Miller, Frank R., assignor to The Graham Glass Company, Evansville, Ind. Bottle. Des. 76,032; Aug. 14.
Miller, Milton P., Dubuque, Iowa, assignor to George D. Wanner & Company, Dayton, Ohio. Toy glider. 1,680,689; Aug. 14.
Miller, William J., Swissvale, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for producing mold charges of molten glass. 1,681,127; Aug. 14.
Milliken, Sarah A., Oakmont, Pa. Doll. Des. 76,033; Aug. 14.
Milner, Herbert. (See Worthington, R. C., and Milner.)
Mine Safety Appliances Company. (See Yablick, Max, assignor.)
Miner, W. H., Inc. (See Brenne, Arild M., assignor.)
Miner, W. H., Inc. (See Dath, Charles E., assignor.)
Miner, W. H., Inc. (See Geiger, William A., assignor.)
Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)
Miner, W. H., Inc. (See O'Connor, John F., assignor.)
Mings, James F., and O. W. Freeman, Galesburg, Ill. Electrically-operated scissors. 1,680,627; Aug. 14.

Minnich, Walter, Montreux, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Esters of unsaturated acids. 1,680,799; Aug. 14.
Minsterman, Robert A., Elmira, N. Y. Baker's peel. 1,680,904; Aug. 14.
Miriam Gross Company. (See Gross, Miriam, assignor.)
Mitchell, Oscar R. (See Newman, A. L., and Mitchell.)
Mitchell, Robert B., assignor to Union Steel Products Company, Albion, Mich. Structural unit. 1,680,427; Aug. 14.
Molybdenum Corporation of America. (See Lucas, Emil A., assignor.)
Moore, Raymond G., assignor to The Bassick Company, Bridgeport, Conn. Latch. 1,680,564; Aug. 14.
Morgan, Francis L., Burlingame, Calif. Pencil holder. Des. 76,034; Aug. 14.
Morgan, John E., New Orleans, La. Lamp and bracket. 1,680,469; Aug. 14.
Morrison, Willard L., Melrose, Mass. Lamp support. 1,680,951; Aug. 14.
Morse, Mark A., jr., New Orleans, La. Smoothing-iron protector. 1,681,128; Aug. 14.
Morshead, Howard. (See Greiner, W. P., and Morshead.)
Morton, Harry D., New York, N. Y. Box-locking device. 1,680,745; Aug. 14.
Mottlau, August J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermostatic regulator. 1,680,428; Aug. 14.
Mottlau, August J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal relay. 1,680,429; Aug. 14.
Mower, George A., London, England, assignor to Judson L. Thomson Manufacturing Co., Waltham, Mass. Sealing receptacles. 1,680,905; Aug. 14.
Mudd, Garrett W., Chicago, Ill. Paper-feeding machine. 1,680,470; Aug. 14.
Mullan, Joseph E. (See Kitchel, R. R., Lippard, and Mullan.)
Muller, Arthur F., Glendale, N. Y. Cork packing and forming machine. 1,680,952; Aug. 14.
Murphy, Lloyd T., Franklin, Ohio. Calibrating instrument for paper-making machines. 1,680,690; Aug. 14.
Murray, R. R., et al. (See Grames, Lawrence R., assignor.)
Murray, Thomas E., jr., Brooklyn, N. Y. Radiator. 1,680,471; Aug. 14.
N. V. Philips' Gloeilampenfabrieken. (See Holst, Gilles, assignor.)
National Aluminate Corporation. (See Derr, Ralph B., assignor.)
National Aniline & Chemical Co. (See Davis, Archibald H., jr., assignor.)
National Brass Company. (See Dexter, Lucien A., assignor.)
National Carbon Company. (See Osean, Charles, assignor.)
National Recording Pump Company, The. (See Eickmeyer, Earl E., assignor.)
National Supply Company, The. (See Wright, C. S., and Mahan, assignors.)
Naugatuck Chemical Company, The. (See Cadwell, Sidney M., assignor.)
Naugatuck Chemical Company, The. (See Cude, Harold E., assignor.)
Needle, Sam L. (See Panalle, A., and Needle.)
Niles-Bement-Pond Company. (See Deale, R. C., and Rausch, assignors.)
Niles-Bement-Pond Company. (See Deale, Robert C., assignor.)
Niles-Bement-Pond Company. (See Randolph, C. F., Rausch, and Marcalus, assignors.)
Nilsson, Robert W., assignor to The Mather Spring Company, Toledo, Ohio. Bumper. Des. 76,035; Aug. 14.
Nishida, Hirotaro, and K. Shimada, Kiriu, Japan. Preparing artificial petroleum from rubber scrap or vulcanized-rubber waste. 1,680,908; Aug. 14.
Nebraska Printing Company. (See Gearing, Harry, assignor.)
Neumann, Fritz, Nuremberg, Germany. Centrifugal pump. 1,680,906; Aug. 14.
Nevel, Elmer R., Lock Haven, Pa. Hot-air-furnace attachment. 1,680,907; Aug. 14.
New Jersey Zinc Company, The. (See Breyer, F. G., and Bunce, assignors.)
Newman, A. L., Company. (See Newman, A. L., and Mitchell, assignors.)
Newman, Almyr L., Warwick, and O. R. Mitchell, assignor, by mesne assignments, to A. L. Newman Company, Cranston, R. I. Flexible bracelet. 1,680,628. Aug. 14.
Nolte, Henry J., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge device. 1,680,691; Aug. 14.
Norris, George L., Summit, N. J., assignor to Vanadium Corporation of America. Steel alloy. 1,680,301; Aug. 14.
North Bro's M'fg. Co. (See Fegley, T. J., and Leopold, assignors.)
Northern Industrial Chemical Company. (See Fuller, Joseph C., assignor.)
Northwestern Motor Company. (See Anderson, Fridthjof W., assignor.)
Norwood, Robert R., Mineral Wells, Tex. Suspenders. 1,680,629; Aug. 14.
Nuccio, Blaise J., New Orleans, La. Building-cooling system. 1,680,472; Aug. 14.
Nugent, Alan M., Unionville, N. Y. Ground fitting. 1,681,129; Aug 14.
Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Picture-transmitting system. 1,680,390; Aug. 14.
O'Connor, Edward E., Strathmore, Quebec, Canada. Combined book hanger and advertising medium. 1,680,302; Aug. 14.
O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Hand brake. 1,680,336; Aug. 14.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,680,337; Aug. 14.
Ohio Foundry & Manufacturing Company, The. (See Sharp, William L., assignor.)
Okell, Stanley A. W., Cranford, N. J., assignor to Industrial Chemical Company, New York, N. Y. Combined electrode and stirring device. 1,680,630; Aug. 14.
Okochi, Tatsuo. (See Wooyenaka, K., and Okochi.)
Oldfield, Barney, Manufacturing Company. (See Brown, Ray W., assignor.)
Olean Sales Corporation. (See Coahran, Jesse M., assignor.)
Oling, John J. (See Craig, F. R., and Oling.)
Oliver, Joseph F. (See Wakefield, C. E., Fleming, and Oliver.)
Operadio Corporation, The. (See Shotwell, Harold H., assignor.)
Orange Lighting Fixture Manufacturing Co. (See Seidell, Alfred P., assignor.)
Osean, Charles, Woodcliff, N. J., assignor to National Carbon Company, Inc. Flash light. 1,680,800; Aug. 14.
Ostline, John E., Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Multioffice telephone system. 1,680,565; Aug. 14.
Otaka Fabric Company, The. (See Lorenz, William A. assignor.)
Otis Elevator Company. (See Bjorkman, Axel W., assignor.)
Otis Elevator Company. (See Brady, Thomas, assignor.)
Otis Elevator Company. (See Davis, Lee L., assignor.)
Otis Elevator Company. (See Heart, Herbert L., assignor.)
Overlander, Evarts W. (See Overlander, Rufus M., jr., and E. W.)
Overlander, Rufus M., jr., and E. W., New York, N. Y. Holder for watch and clock movements. Des. 76,036; Aug. 14.
Owens Bottle Company, The. (See Cramer, Albert N., assignor.)
P & M Company, The. (See Warr, Harold G., assignor.)
Pacent Electric Company. (See Pacent, Louis G., assignor.)
Pacent, Louis G., Winfield Park, assignor to Pacent Electric Company, Incorporated, New York, N. Y. Telephone plug. 1,680,430; Aug. 14.
Pacini, August J., assignor to C. M. Richter, Chicago, Ill. Antiricketic substances and the production thereof. 1,681,120; Aug. 14.
Page, Judith M., Quincy, assignor to Merrimack Manufacturing Company, Lowell, Mass. Pile fabric. Des. 76,037; Aug. 14.
Page, Judith M., Quincy, assignor to Merrimack Manufacturing Company, Lowell, Mass. Pile fabric. Des. 76,038; Aug. 14.
Page, Robert L., Greenville, Miss. Train-dispatching apparatus. 1,680,692; Aug. 14.
Palaith, George J., Chicago, Ill. Drill chuck. 1,680,631; Aug. 14.
Palaith, George J., Cicero, Ill. Spring collar for lathes and screw machines. 1,680,632; Aug. 14.
Panalle, Anatole, and S. L. Needle, Washington, D. C. Safety device. 1,681,130; Aug. 14.
Pantoflicek, Bohdan, Pilsen, Czechoslovakia. Discharging bombs and rendering their fuses active. 1,681,007; Aug. 14.
Paramount Roof Flange Corporation. (See Weinberg, David, assignor.)
Parent, Charles F., Torrington, Conn. Window ventilator. 1,680,909; Aug. 14.
Parker, Gordon, Colorado Springs, Colo., assignor, by mesne assignments, to The People of the United States. Caliper. 1,680,566; Aug. 14.
Parker, Howard, Berlin, N. H., assignor to Brown Company, Portland, Me. Method of and apparatus for handling and drying pulp tubes or the like. 1,681,145; Aug. 14.
Parker, Orin, Bentonville, Ark. Aeroplane landing and launching device. 1,680,473; Aug. 14.
Parks, Dennis, St. Louis, Mo. Rand bending and molding machine. 1,680,431; Aug. 14.
Pass & Seymour, Inc. (See Hagopian, Vahan, assignor.)
Paye & Baker Manufacturing Co. (See Gordon, Allan A., assignor.)
Pearson, Alan H. (See Hutton, Earl S., assignor.)
Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Mold-charge guide for glass-feeding apparatus. 1,680,391; Aug. 14.
Peller, Karl E., and E. H. Lorenz, West Hartford, assignors to Hartford-Empire Company, Hartford, Conn. Glass-pressing machine. 1,680,474; Aug. 14.
Peller, Karl E., assignor to Hartford-Empire Company, Hartford, Conn. Molding bottles in single-mold machines. 1,680,746; Aug. 14.
Pennino, Oreste, New York, N. Y. Brooch or similar article. Des. 76,039; Aug. 14.

Pennino, Oreste, New York, N. Y. Bracelet or similar article. Des. 76,040; Aug. 14.
People of the United States, The. (See Parker, Gordon, assignor.)
Perkins, Julian L., West Springfield, assignor, by mesne assignments, to Perkins Machine and Gear Company, Springfield, Mass. Bevel-gear generator. 1,680,802; Aug. 14.
Perkins Machine and Gear Company. (See Perkins, Julian L., assignor.)
Perrin, Roland E., Brooklyn, N. Y. Necktie holder. 1,680,432; Aug. 14.
Petermann, Otto, Groton, N. Y., assignor to The American Hardware Corporation, New Britain, Conn. Doorknob construction. 1,681,008; Aug. 14.
Peters, Thomas K., Los Angeles, Calif., assignor to The Color Ray Holding Corporation, Denver, Colo. Illuminating appliance. 1,680,633; Aug. 14.
Petersen, Paul W., Bay City, Mich. Refrigerating and preserving comestibles. 1,681,009; Aug. 14.
Petersen, Thorvald J., New York, assignor to The Globe Lighting Fixture Manufacturing Company, Brooklyn, N. Y. Chandelier. Des. 76,041; Aug. 14.
Petersen, Thorvald J., New York, assignor to The Globe Lighting Fixture Manufacturing Company, Brooklyn, N. Y. Wall bracket for lighting fixtures. Des. 76,042; Aug. 14.
Petersime, Ray M., Gettysburg, Ohio. Regulator. 1,680,803; Aug. 14.
Petroleum Heat and Power Company. (See Fesler, M. A., and MacRae, assignors.)
Pfeiffer, Charles L., Bayside, assignor to Richard Hudnut, New York, N. Y. Bottle or similar container. Des. 76,043; Aug. 14.
Pfeiffer, Fred B., Akron, Ohio. Apparatus for curing tires under internal pressure. 1,681,146; Aug. 14.
Pfiffner, Emil, Fribourg, Switzerland. Earthing choking coil or voltage transformer for high voltages. 1,680,910; Aug. 14.
Philadelphia Drying Machinery Company, The. (See Allsop, T., and Sibson, assignors.)
Philadelphia Drying Machinery Company, The. (See Greiner, W. P., and Morshead, assignors.)
Philipp, Arnold, Chicago, Ill. Safety pin. 1,680,693; Aug. 14.
Phillips, Darius T., Chicago, Ill. Wheel. 1,680,338; Aug. 14.
Pierce, Homer R. (See Lewis, J. O., and Pierce.)
Pinto, Joseph, Philadelphia, Pa. Radio slot machine. 1,680,634; Aug. 14.
Pioneer Rubber Company, The. (See Callahan, Christian E., assignor.)
Pittsburgh Steel Foundry Corporation. (See Haskell, Broderick, assignor.)
Pitzman, Marsh, St. Louis, Mo. Internal-combustion engine. 1,680,567; Aug. 14.
Platz, J. C., trustee. (See Shanaberger, Charles W., assignor.)
Pollak, Joseph, Boston, Mass. Electric switch. 1,680,568; Aug. 14.
Poritz, Frederick M., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Lamp base or similar article. Des. 76,044; Aug. 14.
Poritz, Frederick M., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Lamp base or similar article. Des. 76,045; Aug. 14.
Poritz, Frederick M., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Lamp base or similar article. Des. 76,046; Aug. 14.
Porter, Clarence H., Washington, D. C. Gas-analysis apparatus. 1,681,047; Aug. 14.
Power, Charles M., Kent, assignor to The Cleveland Chain and Manufacturing Company, Cleveland, Ohio. Chain fastener. 1,680,475; Aug. 14.
Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,680,953; Aug. 14.
Preferred Oil Burners, Inc. (See Aldrich, Loyd I., assignor.)
Prescott, Charles W., assignor to General Railway Signal Company, Rochester, N. Y. Railway-car classification system. 1,681,131; Aug. 14.
Priebe, Herman C., Blue Island, Ill. Draft gear. 1,680,477; Aug. 14.
Printing Machinery Company, The. (See Thiel, Emil E., assignor.)
Production Pattern Company. (See Craig, F. R., and Oling, assignors.)
Prosperity Company Inc., The. (Davis, Ernest, assignor.)
Prosperity Company, Inc., The. (See Ledbetter, James C., assignor.)
Purcell, Le Roy, Judson, Ind. Bolt fastening. 1,681,048; Aug. 14.
Rassmann, F., Manufacturing Company. (See Rassmann, Hugo C., assignor.)
Radio Patents Corporation. (See Thilo, Günther, assignor.)
Raggio, Lawrence, Port Arthur, Tex. Clothes rod. 1,681,010; Aug. 14.
Ramsey, George, Brooklyn, N. Y. Sound-reproducing method and apparatus. 1,680,694; Aug. 14.
Randall, Herman P. (See Shannon, S. Q. and Randall.)
Randle, Clarence E. (See Connolly, T. F., and Randle, assignors.)
Randle, Lloyd. (See Connolly, T. F., and Randle.)
Randolph, Clifford F., R. H. Rausch, and N. Marcalus, Plainfield, N. J., assignors to Niles-Bement-Pond Company, New York, N. Y. Tool feeding and clamping mechanism for planers. 1,680,747; Aug. 14.
Rassmann, Hugo C., assignor to F. Rassmann Manufacturing Company, Beaver Dam, Wis. Silo or tank lug. 1,680,913; Aug. 14.
Räth, Curt. (See Binz, A., and Räth.)
Rausch, Roswell H. (See Deale, R. C., and Rausch.)
Rausch, Roswell H. (See Randolph, C. F., Rausch, and Marcalus.)
Ray, George W., Forty Fort, Pa. Cultivator. 1,680,914; Aug. 14.
Ray, Walter, et al. (See Hadl, All, assignor.)
Reid, Hugh S., Shawinigan Falls, Quebec, assignor to Canadian Electro Products Company, Limited, Montreal, Canada. Composition of matter for use as fuel. 1,680,392; Aug. 14.
Reliance Die & Stamping Company. (See Johnson, Frank O., assignor.)
Remington Typewriter Company. (See Felbel, Jacob, assignor.)
Remley, Ernest, East Orange, N. J., assignor to Hygienic Fibre Company, Incorporated, Versailles, Conn. Eye-dressing packet. 1,680,804; Aug. 14.
Renfroe, Henry H., Rocky Mount, N. C. Rail-fastening device. 1,681,049; Aug. 14.
Renwick, Frank F., Parlin, N. J., assignor, by mesne assignments, to Du Pont-Pathe Film Manufacturing Corportion, Wilmington, Del. Photographic film. 1,680,635; Aug. 14.
Renwick, Frank F., Parlin, N. J., assignor, by mesne assignments, to Du Pont-Pathe Film Manufacturing Corporation, Wilmington, Del. Photographic film. 1,680,636; Aug. 14.
Reo Motor Car Company. (See Cotes, William A., assignor.)
Reserve Holding Company. (See Saunders, Norman H., assignor.)
Respro, Inc. (See Brown, H. E., and Stover, assignors.)
Reuss, Arnold, assignor to Leach Company, Oshkosh, Wis. Concrete mixer. 1,680,339; Aug. 14.
Reutter, Philip A., assignor to Scovill Manufacturing Company, Waterbury, Conn. Decorating metal articles. 1,680,801; Aug. 14.
Reynolds, Merton A., Auburn, Me. Supporting stand and control switch for electric irons. 1,681,132; Aug. 14.
Rice, Barton & Fales, Incorporated. (See Taylor, Robert H., jr., assignor.)
Rice, Edward P., Eau Claire, Wis. Jar closure. 1,680,476; Aug. 14.
Rice, Louis W., assignor to Bernard Rice's Sons, Inc., New York, N. Y. Hand mirror or similar article. Des. 76,047; Aug. 14.
Rice's, Bernard, Sons, Inc. (See Rice, Louis W., assignor.)
Richardson Company, The. (See Fisher, Harry C., assignor.)
Richardson Company, The. (See Lukens, Alan R., assignor.)
Richardson Company, The. (See Rieser, Oliver O., assignor.)
Richie, Joseph D., Casper, Wyo. Antiskid device. 1,680,569; Aug. 14.
Richter, Charles M. (See Pacini, August J., assignor.)
Richter, George A., W. B. Van Arsdel, and J. G. Gosselink, assignors to Brown Company, Berlin, N. H. Treating wood. 1,680,529; Aug. 14.
Rieser, Oliver O., Oak Park, Ill., assignor to The Richardson Company, Lockland, Ohio. Mechanism for making battery-box handles. 1,680,954; Aug. 14.
Riley, Lynn G., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Pneumatic reversing switch. 1,680,393; Aug. 14.
Ripley, David W., assignor to Sun-Maid Raisin Growers of California, Fresno, Calif. Scale-hopper bottom. 1,680,570; Aug. 14.
Roberts, Charles, New York, N. Y. Casing for a clothes-washing machine. Des. 76,048; Aug. 14.
Robertson, Harry M., Rockville, Md., assignor to American Dressler Tunnell Kilns, Inc., New York, N. Y. Gas-producer conduit system. 1,680,340; Aug. 14.
Robinson, Frank M., jr., Pasadena, Calif. Mop-handle-clamping device. 1,681,011; Aug. 14.
Robinson, Joseph, Santa Monica, Calif., assignor, by mesne assignments, to R. S. Smart, Ottawa, Canada. Spring suspension or shock absorber for vehicles. 1,681,050; Aug. 14.
Robinson and Sons Limited. (See Garrow, Nora, assignor.)
Rockwood, A. Waldo, Winchester, Mass. Trimming braid. Des. 76,049; Aug. 14.
Rockwood, A. Waldo, Winchester, Mass. Trimming braid. Des. 76,050; Aug. 14.
Rode, Fredrich J., assignor to Marquette Tool & Mfg. Company, Chicago, Ill. Sheet-metal press. 1,681,012; Aug. 14.
Roebling's, John A., Sons Company. (See Sunderland, Charles C., assignor.)
Roessler & Hasslacher Chemical Company. (See Brown, M. J., and Harding, assignors.)
Romine, William M. (See Clark, W. J., and Romine.)
Rosato, Victor, New York, N. Y. Stenciling method. 1,681,133; Aug. 14.
Rose, Edward E. (See Eaton, G. M., and Rose.)
Rose, Reed P., Jackson Heights, N. Y., assignor to The Mechanical Rubber Company, Cleveland, Ohio. Treating rubber-fiber waste material. 1,680,915; Aug. 14.

Rosenbaum, Alexander N. (See Birrell, Lawrence H., assignor.)
Rosenblatt, Isidor, Brooklyn, N. Y. Chandelier. Des. 76,051; Aug. 14.
Rosenblatt, Isidor, Brooklyn, N. Y. Chandelier. Des. 76,052; Aug. 14.
Rosenblatt, Isidor, Brooklyn, N. Y. Wall bracket for lighting fixtures. Des. 76,053; Aug. 14.
Rosenblatt, Isidor, Brooklyn, N. Y. Chandelier. Des. 76,054; Aug. 14.
Rosenthal, Frank, New York, N. Y. Bottle cap and dispensing straw. 1,680,341; Aug. 14.
Ross, Oscar A., New York, assignor to General Railway Signal Company, Gates, N. Y. Automatic train control. 1,681,013; Aug. 14.
Rouse, H. B., & Company. (See Stephan, Frank J., assignor.)
Rousselot, Louis J., New York, N. Y. Holder for teapots and other containers. 1,680,637; Aug. 14.
Routsos, John N., Atlanta, Ga. Percolator. 1,680,571; Aug. 14.
Rowan, Francis M., Bessemer, Ala. Heat-conductivity apparatus. 1,680,638; Aug. 14.
Royal Railway Improvements Corporation. (See Sauvage, William H., assignor.)
Ruehmeier, Frank H., Latonia, Ky. Meter for taxicabs. 1,680,639; Aug. 14.
Rund, Roy H., Burlingame, Calif. Luminescent tube. 1,680,572; Aug. 14.
Runkwitz, Arthur. (See Jahn, G., and Runkwitz.)
Ruth, John F., St. Louis, Mo. Metal window. 1,680,640; Aug. 14.
Ruth, John F., St. Louis, Mo. Metal window. 1,681,134; Aug. 14.
Ruth, John F., St. Louis, Mo. Metal window. 1,681,135; Aug. 14.
Ruth, John F., St. Louis, Mo. Metal window. 1,681,136; Aug. 14.
Ruth, John F., St. Louis, Mo. Metal window. 1,681,137; Aug. 14.
Ryan, Lonnie W. (See Barton, L. E., and Ryan.)
Sabin, Ernest E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-rounding machine. 1,680,342; Aug. 14.
Safety Car Heating & Lighting Company, The. (See Knieszner, William T., assignor.)
Sager, Abraham, Chicago, Ill. Ring. 76,055; Aug. 14.
Saginaw Manufacturing Co. (See Gilbert, Henry J., assignor.)
Salerni, Edoardo M., Paris, France, assignor to E. M. S. Industrial Processes Limited, London, England. Condenser. 1,680,641; Aug. 14.
Sanford, Roy S., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake mechanism. 1,681,014; Aug. 14.
Saunders, Norman H., Homewood, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Automatic telephone system. 1,681,015; Aug. 14.
Sauvage, William H., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y. Regulator for brake rigging. 1,681,051; Aug. 14.
Sauvage, William H., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y. Regulator for brake rigging. 1,681,052; Aug. 14.
Sauvage, William H., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y. Brake-rigging regulator. 1,681,053; Aug. 14.
Sauvage, William H., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y. Foundation brake rigging. 1,681,054; Aug. 14.
Sauvage, William H., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y. Regulator for brake rigging. 1,681,055; Aug. 14.
Sauvage, William H., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y. Regulator for brake rigging. 1,681,056; Aug. 14.
Sauvage, William H., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y. Regulator for brake rigging. 1,681,057; Aug. 14.
Sauvage, William H., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y. Regulator for brake rigging. 1,681,058; Aug. 14.
Sauvage, William H., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y. Regulator for brake rigging. 1,681,059; Aug. 14.
Sauvage, William H., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y. Regulator for brake rigging. 1,681,060; Aug. 14.
Savary, Eugene A., Phoenicia, N. Y. Stair-carpet fastener. 1,680,343; Aug. 14.
Save-All Pie Plate Co., The. (See Smythe, Richard M., assignor.)
Scheel, John J., Detroit, Mich. Burial vault and sealing same. 1,680,642; Aug. 14.
Scheiner, Harry, and J. and P. Silberhartz, Brooklyn, N. Y. Aquarium stand. Des. 76,057; Aug. 14.
Schmidt, George M., Cedar Rapids, Iowa. Awning protector. 1,681,016; Aug. 14.
Schmidt, Henry, Santa Monica, Calif. Tile marking and cutting gauge. 1,680,805; Aug. 14.
Schmidt, Karl, Berlin-Sudende, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Regulating system for maintaining electric converters at a constant speed. 1,680,806; Aug. 14.
Schmitt, John A., Columbus, Ohio, assignor to The Universal Milking Machine Company, Waukesha, Wis. Pulsator. 1,681,138; Aug. 14.
Schneider & Cie. (See Methlin, Nicolas E., assignor.)
Schneider, Peter J., Eau Claire, Wis. Bricklayer's tool. 1,680,643; Aug. 14.
Schneider, William H., assignor to A. C. Kootz, Milwaukee, Wis. Tinsel and the like and method for the manufacture thereof. 1,680,303; Aug. 14.
Schreibman, Harry, and L. Goldberg, Brooklyn, N. Y. Lighting fixture. Des. 76,058; Aug. 14.
Schultze, William, Syracuse, assignor to Atmospheric Nitrogen Corporation, Solvay, N. Y. Catalysts compact and making same. 1,680,807; Aug. 14.
Schütz, Conrad, Philadelphia, Pa., assignor to Liberman Manufacturing Company. Control mechanism. 1,680,808; Aug. 14.
Schwartz, Adolf, Kenosha, Wis. Fur-sewing-machine attachment. 1,680,433; Aug. 14.
Scoggan, Richard R., Jeffersonville, Ind., assignor to Cheatham Electric Switching Device Company, Louisville, Ky. Electric track switch. 1,680,304; Aug. 14.
Scovill Manufacturing Company. (See Reutter, Philip A., assignor.)
Seaboalt, Joe S., Abilene, Tex. Steam-generating apparatus. 1,681,061; Aug. 14.
Seeger, Edwin W., South Milwaukee, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor controller. 1,680,478; Aug. 14.
Seel, Hans, Hopkinton, R. I. Lace. Des. 76,059; Aug. 14.
Self Seal Pressure Cooker Co. (See Vischer, Alfred, jr., assignor.)
Seidell, Alfred P., Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co. Lighting-fixture strap or article of analogous nature. Des. 76,060; Aug. 14.
Seidell, Alfred P., Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co. Lighting-fixture plate or article of analogous nature. Des. 76,061; Aug. 14.
Seneca Falls Machine Co. (See Ashton, Richard, A., assignor.)
Shaeffer, Jacob H., Brooklyn, N. Y. Tag or similar article. Des. 76,056; Aug. 14.
Shaff, Ernest H., assignor to Wm. H. Keller, Inc., Grand Haven, Mich. Chisel and piston retainer. 1,680,644; Aug. 14.
Shanaberger, Charles W., Johnstown, assignor to J. C. Platz, trustee, Pittsburgh, Pa. Conveyer. 1,680,695; Aug. 14.
Shannon, S. Q. and H. P. Randall, Los Angeles, Calif. Liquid-level indicator. 1,680,916; Aug. 14.
Sharp, William L., assignor to The Ohio Foundry & Manufacturing Company, Steubenville, Ohio. Damper 1,680,696; Aug. 14.
Sharpe, James H. (See van Putten, J. H., and Sharpe.)
Sharpsville Boiler Works. (See Fagan, Charles D., assignor.)
Sheehan, William M., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Locomotive structure. 1,680,434; Aug. 14.
Shelton, William G., New York, N. Y. Hair-curling apparatus. 1,680,809; Aug. 14.
Shickluna, Joseph J., Buffalo, N. Y. Mast arm. 1,680,573; Aug. 14.
Shimada, Keiichi. (See Nishida, H., and Shimada.)
Shimer, John M., Wilkinsburg, Pa., assignor to Wilson-Snyder Manufacturing Company. Pump. 1,680,479; Aug. 14.
Shimer, John M., Wilkinsburg, Pa., assignor to Wilson-Snyder Manufacturing Company. Pump. 1,680,480; Aug. 14.
Shipley, Henry T., Lakewood, Wis. Self-dumping attachment for road scrapers. 1,680,574; Aug. 14.
Shore, Albert F., New York, N. Y. Clip. 1,680,435; Aug. 14.
Shore, Albert F., New York, N. Y. Clip for laminate springs. 1,680,436; Aug. 14.
Shortt, James, assignor to Alloy Metal Products Co., Los Angeles, Calif. Lantern electric-light fixture. Des. 76,062; Aug. 14.
Shortt, James, assignor to Alloy Metal Products Co., Los Angeles, Calif. Panel for electric-light fixtures. Des. 76,063; Aug. 14.
Shotwell, Harold H., assignor to The Operadio Corporation, Chicago, Ill. Variable condenser. 1,680,810; Aug. 14.
Shroyer, Jacob L., Oak Park, assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Electrically-heated device. 1,680,748; Aug. 14.
Shroyer, Jacob L., Oak Park, assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Electric heater 1,680,749; Aug. 14.
Sibson, Walter W. (See Allsop, T., and Sibson.)
Sickles, Frank W., Springfield, Mass. Inductance. 1,680,955; Aug. 14.
Silver, Robert, Knightstown, Ind. Funeral car. 1,680,811; Aug. 14.
Silberhartz, Jacob. (See Scheiner, H., and Silberhartz.)
Silberhartz, Philip. (See Scheiner, H., and Silberhartz.)
Silberhartz, Philip, Brooklyn, assignor to Majestic Lamp Works, New York, N. Y. Lamp base or article of analogous nature. Des. 76,064; Aug. 14.

Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,680,394; Aug. 14.

Simonsen, Edward H., assignor to R. M. Eddy Foundry Company, Chicago, Ill. Wrench. 1,680,956. Aug. 14.

Sims, Carl E., Eastland, Tex. Oil spray. 1,680,645; Aug. 14.

Singer, Fred J. (See Herman, J., and Singer.)

Singer Manufacturing Company, The. (See Becker, Rudolph, assignor.)

Singer Manufacturing Company, The. (See Tivendale, William, assignor.)

Siegel, Franklin G., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Hollow body. 1,680,697; Aug. 14.

Slater, Beulah E., Los Angeles, Calif. Hair waver. 1,680,698; Aug. 14.

Sleeper, Harvey P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay system. 1,680,595; Aug. 14.

Sloan, Alfred C., Philadelphia, Pa., and S. M. Sloan, Vineland, N. J. Connecting rod and its component bearings. 1,680,917; Aug. 14.

Sloan, Stephen M. (See Sloan, Alfred C. and S. M.)

Sloan, William E., Chicago, Ill. Valve. 1,680,812; Aug. 14.

Sloss, Aaron M. (See Kleinlercher, Anthony, assignor.)

Smart, Russel S. (See Robinson, Joseph, assignor.)

Smith, A. O., Corporation, The. (See Andrus, O. E., and Hermanson, assignors.)

Smith, Albert K., jr., assignor to Chipron Stamp Company, Los Angeles, Calif. Stamp mounting and label. 1,680,699; Aug. 14.

Smith, Anthony R., Elyria, assignor to The Elyria Iron and Steel Company, Cleveland, Ohio. Lock. 1,681,017; Aug. 14.

Smith, Frank N. (See Clark, J., Smith, and Meese.)

Smith, Fulton W., Hillside, assignor to Colgate & Company, Jersey City, N. J. Atomizer or similar article. Des. 76,065; Aug. 14.

Smith, Grant E., Poughkeepsie, N. Y. Molded article and making the same. 1,680,646; Aug. 14.

Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,680,481; Aug. 14.

Smith, Jesse A.B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Combined typewriting and card-perforating machine. 1,680,813; Aug. 14.

Smoot, Charles H., Maplewood, N. J. Regulator. 1,680,750; Aug. 14.

Smythe, Richard M., Boonton, N. J., assignor, by mesne assignments, to The Save-All Pie Plate Co., New York, N. Y. Pie plate. Re17,068; Aug. 14.

Snavely, Clarence S., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Signal. 1,680,482. Aug. 14.

Snee, Michael, Los Angeles, Calif. Ball-bearing rail. 1,680,814; Aug. 14.

Sobel, Joseph, assignor to Genuine Bronze Fixture Co. Inc., Brooklyn, N. Y. Display stand. Des. 76,066; Aug. 14.

Societe Chimique des Usines du Rhone. (See Bouvier, M. E., and Hugoniot, assignors.)

Society of Chemical Industry in Basle. (See Felix, Friedrich, assignor.)

Society of Chemical Industry in Basle. (See Minnich, Walter, assignor.)

Solar Refining Company. (See Werkenthin, Theodore A., assignor.)

Sommer, J. L., Manufacturing Co. (See Harding, Thomas, assignor.)

Sorensen, George P., Chicago, Ill. Air vent and pressure fitting for liquid containers. 1,680,815; Aug. 14.

Sparks, William, assignor to The Sparks-Withington Company, Jackson, Mich. Escutcheon plate. Des. 76,067; Aug. 14.

Sparks, William, assignor to The Sparks-Withington Company, Jackson, Mich. Escutcheon plate. Des. 76,068; Aug. 14.

Sparks-Withington Company, The. (See Sparks, William, assignor.)

Sparshatt, John H., Portsmouth, England. Cover for vehicles. 1,681,062; Aug. 14.

Spase, Charles B., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Clutch. 1,680,751; Aug. 14.

Spaulding, Ralph D., Linesville, Pa. Utensil for forming meat loaves. 1,680,816; Aug. 14.

Spear, Furman D., assignor to Armspear Manufacturing Company, New York, N. Y. Kerosene signaling lamp. 1,681,139; Aug. 14.

Spear, Furman D., assignor to Armspear Manufacturing Company, New York, N. Y. Kerosene signaling lamp. 1,681,140; Aug. 14.

Spittal, David, Chambly Basin, Quebec, Canada. Golf club. 1,680,817; Aug. 14.

Square D. Company. (See Horton, Bryson D., assignor.)

Staege, Stephen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,680,396; Aug. 14.

Stancliff, Ray L., Wesleyville, Pa., assignor to General Electric Company. Contact-connecter shunt. 1,680,701; Aug. 14.

Standard Textile Products Company, The. (See Dieck, Henry W., assignor.)

Standow, Mark A., Newark, N. J. Electrically-operated clock. 1,680,700; Aug. 14.

Staples, Stogdell S. (See Chapin, William R., assignor.)

Starbuck, William C., Van Nuys, Calif. Hinge-spacing gauge head. 1,680,575; Aug. 14.

Stark, Walter E., New York, and S. H. Drake, Groton, N. Y. Camera. 1,680,647; Aug. 14.

Stazak, Michael B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,680,344; Aug. 14.

Stean, Jules H., Marquette, Mich. Refuse container. 1,680,957; Aug. 14.

Steele, Roscoe, Rockaway Borough, N. J., assignor to Wirebounds Patent Company. Shipping crate. 1,681,063; Aug. 14.

Steenbock, Harry, Madison, Wis., assignor to Wisconsin Alumni Research Foundation. Antirachitic product and process. 1,680,818; Aug. 14.

Stehli, Henry J., Cedar Grove, N. J. Method of and apparatus for sintering. 1,680,345; Aug. 14.

Stein, Theodor, Berlin-Friedenau, Germany., assignor to General Electric Company. Power station. 1,680,752; Aug. 14.

Steindorff, Ulrich F. L., New York, N. Y. Printing device. 1,680,819; Aug. 14.

Steiner, Oscar, Philadelphia, Pa., assignor to General Electric Company. Electric condenser. 1,680,702; Aug. 14.

Stephan, Frank J., assignor to H. B. Rouse & Company, Chicago, Ill. Shaving plane. 1,681,018; Aug. 14.

Stephens, Charles T., assignor to G. S. Angus, Chicago Heights, Ill. Striker device for player pianos. 1,680,820; Aug. 14.

Stern, Isidore, New Rochelle, N. Y. Denture attachment. 1,680,305; Aug. 14.

Stern, Isidore, New Rochelle, N. Y. Denture attachment. 1,680,307; Aug. 14.

Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Stock-wind-off mechanism. 1,681,064; Aug. 14.

Steward, Alden A., Rutland, Vt. Oil-burning system. 1,681,065; Aug. 14.

Stewart, Harry C., Webster, Ky. Helicopter. 1,681,019; Aug. 14.

Stewart, Lawrence L., Kansas City, Mo. Transmission. 1,680,306; Aug. 14.

Stickney, Burnham C., Portsmouth, N. H., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,680,483; Aug. 14.

Stimson, Frank G., Long Island, assignor to Yale Electric Corporation, New York, N. Y. Extra-bulb carrier. 1,680,484; Aug. 14.

Stimson, John F., Aulander, N. C. Post. 1,681,020; Aug. 14.

Stover, Jordan H. (See Brown, H. E., and Stover.)

Stransky, Hans, Vienna, Austria, assignor to Westinghouse Electric & Manufacturing Company. Electric steam boiler. 1,680,397; Aug. 14.

Stratton, Frank E., Edgewood, assignor to Diamond Machine Company, Providence, R. I. Swing-frame grinder. 1,680,958; Aug. 14.

Strauss, Joseph B., Chicago, Ill. Bridge. 1,680,821; Aug. 14.

Strid, Sven J., assignor to R. J. Cook, Chicago, Ill. Draft gear. 1,680,308; Aug. 14.

Strobino, Gaston, Paterson, N. J. Sound reproducer. 1,680,822; Aug. 14.

Submarine Signal Corporation. (See Dorsey, Herbert G., assignor.)

Sullivan, Cornelius, Boston, Mass. Flag attachment. 1,680,703; Aug. 14.

Summers, Warren R., San Diego, Calif. Cryptogram. 1,681,066; Aug. 14.

Sunderland, Charles C., assignor to John A. Roebling's Sons Company, Trenton, N. J. Rope thimble. 1,680,346; Aug. 14.

Sunderland, Charles C., assignor to John A. Roebling's Sons Company, Trenton, N. J. Socket for wire cables or strands. 1,680,347; Aug. 14.

Sun-Maid Raisin Growers of California. (See Ripley, David W., assignor.)

Sutton, Margaret M., Baxter Springs, Kans. Nursery chair. Des. 76,069; Aug. 14.

Sutton, Margaret M., Baxter Springs, Kans. Table. Des. 76,070; Aug. 14.

Svanberg, Gustav A., assignor of one-half to A. A. Hayek, Fort Lee, N. J. Coin-controlled photographic machine. 1,680,709; Aug. 14.

Swan, Harry B., Detroit, Mich. Liquid-level gauge. 1,680,485; Aug. 14.

Swars, Paul G., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley frog. 1,680,704; Aug. 14.

Symington Company, The. (See Barrows, Donald S., assignor.)

Symmes, Whitman, San Francisco, Calif. Electric-fixture support. 1,680,576; Aug. 14.

Tabulating Machine Company, The. (See Campbell, Charles, assignor.)

Tabulating Machine Company, The. (See Ford, Eugene A., assignor.)

Tabulating Machine Company, The. (See Lake, Clair D., assignor.)

Takamine Ferment Company. (See Wooyenaka, K., and Okochi, assignors.)

Tanner, Arnold J., North Haven, Conn. Display container. 1,680,309; Aug. 14.

Tappan Stove Company, The. (See Taylor, Thomas E., assignor.)

Tarshis, Ralph, Brooklyn, N. Y. Helicopter. 1,681,067; Aug. 14.

Taylor, Robert H., jr., assignor to Rice, Barton & Fales, Incorporated, Worcester, Mass. Suction box. 1,680,486; Aug. 14.

Taylor, Thomas E., assignor to The Tappan Stove Company, Mansfield, Ohio. Gas range. 1,681,068; Aug. 14.

Taylor, William L., assignor to Johnson Automatic Sealer Co., Ltd., Battle Creek, Mich. Filling and weighing machine. 1,680,487; Aug. 14.

Teed, Earl S., assignor to The Textile Rubber Company, Akron, Ohio. Manufacturing composite rubber wheels or other articles. 1,680,823; Aug. 14.

Terhune, Edwin W., assignor to Lord & Burnham Company, Irvington on Hudson, N. Y. Sash-operating mechanism. 1,681,141; Aug. 14.

Textile Rubber Company, The. (See Teed, Earl S., assignor.)

Thayer, Walter E., Lockport, N. Y. Track for miniature electric trains. 1,680,918; Aug. 14.

Theodoropulos, Aristede A., New York, N. Y. Safety bumper for vehicles. 1,681,069; Aug. 14.

Thiel, Emil E., assignor to The Printing Machinery Company, Cincinnati, Ohio. Printing-plate holder. 1,680,959; Aug. 14.

Thilo, Günther, Friedenau, near Berlin, Germany, assignor to Radio Patents Corporation, New York, N. Y. Regulating grid voltage of electron tubes. 1,680,348; Aug. 14.

Thoen, Lowell H., assignor to Western Harvester Co., Stockton, Calif. Dirigible-wheel mounting. 1,680,648; Aug. 14.

Thomas & Betts Co., The. (See Church, Lewis H., assignor.)

Thomas, Irvin G., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Temperature-control system. 1,680,398; Aug. 14.

Thomas, Phillips, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Distortionless dynamic transmitter. 1,680,399; Aug. 14.

Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Making insulators. 1,680,705; Aug. 14.

Thompson, George K., Maplewood, N. J. Sickle. 1,680,824; Aug. 14.

Thomson, Judson L., Manufacturing Co. (See Mower, George A., assignor.)

Thornton, Richard W., Denver, Colo. Playground chute. 1,680,753; Aug. 14.

Tice, Francis M. (See Jacobson, Herman W., assignor.)

Tiffany Manufacturing Co. (See Mason, Carl T., assignor.)

Titanium Pigment Company. (See Barton, L. E., and Ryan, assignors.)

Tivendale, William, Clydebank, Scotland, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Straightening machine for needles and the like. 1,680,649; Aug. 14.

Toledo Automatic Brush Machine Company, The. (See Jobst, Conrad, assignor.)

Tost, Charles R., Centerdale, assignor to The Hadley Company, Providence, R. I. Bracelet. 1,680,706; Aug. 14.

Tracy, Earl G. S. (See Dahl, Conrad, assignor.)

Train Control Corporation of America. (See Clifford, Patrick J., assignor.)

Train Control Corporation of America. (See Langdon, Andrew, assignor.)

Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Synchronizing device. 1,680,707; Aug. 14.

Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Relay. 1,680,708; Aug. 14.

Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Synchronizing device. 1,680,754; Aug. 14.

Travers Process Corporation, The. (See Urbain, Oliver M., assignor.)

Travis, Frank A., Kansas City, Mo. Piston expander. 1,680,650; Aug. 14.

Travis, Simeon E., jr., Hattiesburg, Miss. Side-rail truck body. 1,681,021; Aug. 14.

Traylor, William E., Fort Smith, Ark. Liquid register. 1,680,651; Aug. 14.

Troop, George W., Geneva, Ohio. Belt buckle. 1,680,488; Aug. 14.

Tubular Products Company, The. (See Bradnack, John H., assignor.)

Ulrey, Dayton, and D. I. Mayne, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Automatic electric flasher. 1,680,400; Aug. 14.

Underwood Elliott Fisher Company. (See Kupetz, Adolph G., assignor.)

Underwood Elliott Fisher Company. (See Kurowski, Alfred G. F., assignor.)

Underwood Elliott Fisher Company. (See Stickney, Burnham C., assignor.)

Underwood Elliott Fisher Company. (See Smith, Jesse A. B., assignor.)

Union Steel Products Company. (See Bitney, Dewey H., assignor.)

Union Steel Products Company. (See Mitchell, Robert B., assignor.)

Union Switch & Signal Company, The. (See Snavely, Clarence S., assignor.)

United Shoe Machinery Corporation. (See Ballard, Harrie A., assignor.)

United Shoe Machinery Corporation. (See Jorgensen, Bernhardt, assignor.)

United Shoe Machinery Corporation. (See Sabin, Ernest E., assignor.)

Universal Milking Machine Company, The. (See Schmitt, John A., assignor.)

Urbain, Oliver M., assignor, by mesne assignments, to The Travers Process Corporation, Columbus, Ohio. Process and apparatus for dialyzing liquids. 1,680,349; Aug. 14.

Uschmann, Curt, assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Adjustable support or easel. 1,681,070; Aug. 14.

Vanadium Corporation of America. (See Norris, George L., assignor.)

Van Arsdel, Wallace B. (See Richter, G. A., Van Arsdel, and Gosselink.)

Vance, Walter N., assignor to Durand Steel Locker Company, Chicago Heights, Ill. Shelf rack. 1,680,960; Aug. 14.

Van Putten, James H. and J. H. Sharpe, New York, N. Y. Tire covering. 1,680,961; Aug. 14.

Vaughan, Victor G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system for radiant heaters. 1,680,401; Aug. 14.

Vaughan, Victor G., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, Waffle iron. 1,680,402; Aug. 14.

Veazey, William R., Cleveland Heights, Ohio, assignor to The Dow Chemical Company, Midland, Mich. Pulverizing and alloying nickel. 1,680,825; Aug. 14.

Veenstra, Martin, Ada, Mich. Snowplow. 1,681,022; Aug. 14.

Ver Mehr, John, London, England. Mixing machine. Re17,067; Aug. 14.

Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Co., Inc., Wallingford, Conn. Drapery-pole end. Des. 76,071; Aug. 14.

Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 76,072; Aug. 14.

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Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 76,076; Aug. 14.

Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 76,077; Aug. 14.

Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 76,078; Aug. 14.

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Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 76,082; Aug. 14.

Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 76,083; Aug. 14.

Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 76,084; Aug. 14.

Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 76,085; Aug. 14.

Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 76,086; Aug. 14.

Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 76,087; Aug. 14.

Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 76,088; Aug. 14.

Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 76,089; Aug. 14.

Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 76,090; Aug. 14.

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Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 76,093; Aug. 14.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole center. Des. 76,094; Aug. 14.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole center. Des. 76,095; Aug. 14.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 76,096; Aug. 14.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 76,097; Aug. 14.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 76,098; Aug. 14.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 76,099; Aug. 14.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 76,100; Aug. 14.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 76,101; Aug. 14.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 76,102; Aug. 14.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 76,103; Aug. 14.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 76,104; Aug. 14.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 76,105; Aug. 14.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 76,106; Aug. 14.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 76,107; Aug. 14.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 76,108; Aug. 14.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole bracket. Des. 76,109; Aug. 14.
Viola, Domenico, Philadelphia, Pa. Cigarette box. 1,680,826; Aug. 14.
Vischer, Alfred, jr., Floral Park, assignor to Self Seal Pressure Cooker Co., Inc., New York, N. Y. Container. 1,681,150; Aug. 14.
Visintainer, Felix, New York, N. Y. Alloy. 1,680,577; Aug. 14.
Vittányi, Stephen, Rockaway Beach, N. Y. Sea and land aeroplane. 1,681,071; Aug. 14.
Von Hoorn, Fred G. (See Jennings, O. S., and von Hoorn.)
Voshardt, Herman F., assignor to Friedley-Voshardt Co., Chicago, Ill. Dishwasher. 1,680,962; Aug. 14.
Vulcan Last Company, The. (See Heeter, A., and Mattern, assignors.)
Wade, Henry N. (See Barnum, T. E., and Wade.)
Wadsten, Sten, Bloomfield, N. J., assignor to Westinghouse Lamp Company. Adjustable measuring and cutting device for coil-winding machines. 1,680,489; Aug. 14.
Wagner, Theodore B., Brooklyn, N. Y. Yeast stimulants and using them. 1,680,827; Aug. 14.
Wakefield All-Steel Wrench Company. (See Wakefield, C. E., Fleming, and Oliver, assignors.)
Wakefield, Clarence E., J. P. Fleming, and J. F. Oliver, assignors to Wakefield All-Steel Wrench Company, Inc., Worcester, Mass. Socket-wrench set. 1,680,578; Aug. 14.
Wallinsky, Ossip J., assignor to White Luggage Co. Inc., New York, N. Y. Luggage-locking device. 1,680,652; Aug. 14.
Walker, Jack L., Dallas, Tex. Recording and reproducing of sound waves. 1,680,653; Aug. 14.
Walkup, Bascom L., Mexia, Tex. Belt clamp. 1,680,919; Aug. 14.
Wall, Arthur W., Sheldon, near Birmingham, assignor of three-fourths to John White, Handsworth, Birmingham, England. Cylinder of internal-combustion engines. 1,680,710; Aug. 14.
Walton, Joseph S., Los Angeles, Calif. Stool for service counters. 1,680,828; Aug. 14.
Wanner, George D., & Company. (See Miller, Milton P., assignor.)
Wappler, Frederick C. (See Wappler, Reinhold H. and F. C.)
Wappler, Reinhold H., Yonkers, N. Y. Endoscope. 1,680,490. Aug. 14.
Wappler, Reinhold H., Yonkers, and F. C. Wappler, New York, N. Y. Illuminating surgical telescope. 1,680,491; Aug. 14.
Waring, William B., Bronx, N. Y. Amusement apparatus. 1,680,350; Aug. 14.
Warne, Oakley H., Elburn, Ill. Railroad spike. 1,680,351; Aug. 14.
Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,680,437; Aug. 14.
Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Tool for applying rail anchors. 1,680,438; Aug. 14.
Waterbury Tool Company, The. (See Francis, Daniel R., assignor.)
Watling, John B., Chicago, Ill. Weighing mechanism. 1,680,579; Aug. 14.
Watts, Richard E., Stamford, England. Multicylinder reciprocating engine, pump, and compressor. 1,681,072; Aug. 14.
Weathers, William F., Detroit, Mich. Furnace. 1,680,654; Aug. 14.
Weaver, Clark E., Kansas City, Mo. Ventilating door. 1,680,439; Aug. 14.
Weber, George, Pittsburgh, Pa. Trolley guard. 1,680,829; Aug. 14.
Weber, Karl A., Los Angeles, Calif. Glass-grinding machine. 1,680,920; Aug. 14.
Webrle, Charles, Remer, Minn. Static collector for printing presses. 1,680,310; Aug. 14.
Weinberg, David, Rockaway Beach, N. Y., assignor to Paramount Roof Flange Corporation. Adjustable roof flange. 1,680,921; Aug. 14.
Weiner, Emil. (See Katims, H., and Weiner.)
Welch, Frank. (See Bottomley, E., and Welch.)
Welch, George R., Detroit, Mich. Vaporizer. 1,680,655; Aug. 14.
Welcome, Harold A., assignor to American Mason Safety Tread Company, Lowell, Mass. Stair nosing. 1,681,073; Aug. 14.
Wellman, Frank E., assignor to Kansas City Gasoline Company, Kansas City, Kans. Distilling hydrocarbons. 1,680,580. Aug. 14.
Werkenthin, Theodore A., assignor to The Solar Refining Company, Lima, Ohio. Fractional extraction of petroleum hydrocarbons with alcohol. 1,680,352; Aug. 14.
Werkenthin, Theodore A., assignor to The Solar Refining Company, Lima, Ohio. Apparatus for the fractional extraction of petroleum hydrocarbons with alcohol. 1,680,353; Aug. 14.
Westerfield, Brasher O., assignor of one-half to E. C. Cox, Detroit, Mich. Candy-forming machine. 1,680,440; Aug. 14.
Western Electric Company. (See Akers, Milton K., assignor.)
Western Electric Company. (See Curtis, Austen M., assignor.)
Western Harvester Co. (See Thoen, Lowell H., assignor.)
Western Electric Company. (See Wheeler, E. B., and Wright, assignors.)
Westinghouse Electric & Manufacturing Company. (See Austin, Walter M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brace, Porter H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brown, Arthur L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Conrad, Frank, assignor.)
Westinghouse Electric and Manufacturing Company. (See Crichton, L. N., and Golladay, assignors.)
Westinghouse Electric & Manufacturing Company. (See Eaton, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Eaton, G. M., and Rose, assignors.)
Westinghouse Electric & Manufacturing Company. (See Else, Harry D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Eschholz, Otto H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hengstenberg, Paul M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Herr, Herbert T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hodgkins, Charles H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hodgkinson, F., and Allen, assignors.)
Westinghouse Electric & Manufacturing Company. (See Hodgkinson, Francis, assignor.)
Westinghouse Electric & Manufacturing Company. (See Houston, Harold A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Jennings, O. S., and von Hoorn, assignors.)
Westinghouse Electric & Manufacturing Company. (See Johnston, Howard L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kloss, Ernst, assignor.)
Westinghouse Electric & Manufacturing Company. (See Legg, Joseph W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Little, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Matthews, Howard D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mottlau, August J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Riley, Lynn G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Simmon, Karl A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Sleeper, Harvey P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Staege, Stephen A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Stransky, Hans, assignor.)
Westinghouse Electric & Manufacturing Company. (See Swars, Paul G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Thomas, Irvin G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Thomas, Phillips, assignor.)
Westinghouse Electric and Manufacturing Company. (See Ulrey, D., and Mayne, assignors.)
Westinghouse Electric & Manufacturing Company. (See Vaughan, Victor G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wise, Allen S., assignor.)
Westinghouse Electric and Manufacturing Company. (See Woodson, James C., assignor.)
Westinghouse Lamp Company. (See Holden, William H. T., assignor.)
Westinghouse Lamp Company. (See Wadsten, Sten, assignor.)
Weston, Edward B., Dayton, Ohio, and W. G. Clark, Terre Haute, Ind., assignors to Weston Paper and Mfg. Co., Dayton, Ohio. Striping paper. 1,680,711; Aug. 14.
Weston Paper and Mfg. Co., The. (See Weston, E. B., and Clark, assignors.)
Weyandt, Carl S., assignor to Central Electric Tool Company, Pittsburgh, Pa. Reciprocating motor. 1,680,311; Aug. 14.
Wheat, Frank B., Los Angeles, Calif. Sectional partition and panel structure. 1,681,074; Aug. 14.
Wheeler, Edmund B., Midland Park, and J. C. Wright, Millburn, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Storage of dry cells and batteries. 1,680,656; Aug. 14.
Wheeler, William I., Scottville, Ill. Making plowshares. 1,680,830; Aug. 14.
White, Charles E., assignor to Deere & Company, Moline, Ill. Covering wheel for planters. 1,681,023; Aug. 14.
White, John. (See Wall, Arthur W., assignor.)
White Luggage Co. Inc. (See Walinsky, Ossip J., assignor.)
White, Muerk E., High Point, assignor of one-half to G. W. Fleming, Clinton, N. C. Cushion. 1,680,963; Aug. 14.
White, Walter C., Pittsburgh, Pa. Fluid-conveying apparatus. 1,680,831; Aug. 14.
Whiteley, George H., jr., York, Pa., assignor to The Dentists' Supply Company. Molding artificial teeth. 1,680,312; Aug. 14.
Whitman, Floyd E. (See Graf, G. B., and Whitman.)
Wickland, Algot A., Chicago, Ill. Pulverized-fuel mixer. 1,680,964; Aug. 14.
Wiedeke, Gustav, assignor to Gustav Wiedeke Company, Dayton, Ohio. Tube and flue expander. 1,680,922; Aug. 14.
Wiedeke, Gustav, Company. (See Wiedeke, Gustav, assignor.)
Wiegert, Rudolf H., Madgeburg, Germany. Gas-tight sealing of shafts. 1,681,075; Aug. 14.
Wilder, Laurence R., New York, N. Y. Ceramic product and producing the same. 1,680,832; Aug. 14.
Willcox, Frederick H., assignor to Freyn Engineering Company, Chicago, Ill. Method and apparatus for the control of combustion. 1,680,833; Aug. 14.
Williams, Chester I., Grand Rapids, Mich. Concrete-form construction or the like. 1,680,923; Aug. 14.
Williams, Clark C., Ascot, near Brisbane, Queensland, Australia. Golf bag. 1,680,354; Aug. 14.
Williams, Frank E., Kansas City, Mo. Sole-cementing machine. 1,680,924; Aug. 14.
Williams, John S., Brisbane, Queensland, Australia. Adjustable fastener for hinged structures. 1,680,965; Aug. 14.
Williams Sealing Corporation. (See Barroll, Henry E., assignor.)
Wilson, Ralph E., Dallas, Tex. Cotton-separating machine. 1,680,712; Aug. 14.
Wilson, Ralph W., New York, N. Y., assignor to Theodore W. Foster & Brother Company, Providence, R. I. Lipstick holder. 1,680,755; Aug. 14.
Wilson-Snyder Manufacturing Company. (See Shimer, John M., assignor.)
Winans, Daniel M., Binghamton, assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Ventilator for closed vehicles. 1,680,966; Aug. 14.
Winter, Fred H., Schenectady, N. Y., assignor to General Electric Company. Synchronizing device. 1,680,756; Aug. 14.
Wirebounds Patent Company. (See Steele, Roscoe, assignor.)
Wisconsin Alumni Research Foundation. (See Steenbock, Harry, assignor.)
Wise, Allen S., New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Wringer. 1,680,403; Aug. 14.
Wittenberg, Edward H., La Crosse, Wis. Bottle-cleaning brush. 1,680,713; Aug. 14.
Wohl, David. (See Wohl, Jerome I., assignor.)
Wohl, Jerome I., Chicago, Ill., assignor to D. Wohl, Gary, Ind. Combination container an dcooler. 1,681,076; Aug. 14.
Wolcott, Frank E., West Hartford, Conn., assignor, by mesne assignments, to The Beardsley & Wolcott Mfg. Co. Heating appliance. 1,681,142; Aug. 14.
Wood, Cecil W., Hedgesville, W. Va. Fruit gatherer. 1,680,925; Aug. 14.
Wood, Edward L., Detroit, Mich. Dumping-body hoist. 1,680,834; Aug. 14.
Woodhouse, George, Butte, Mont. Visible index system. 1,680,355; Aug. 14.
Woods, Frank E. (See Baldwin, E. F., and Woods.)
Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Heating unit. 1,680,404; Aug. 14.
Wooyenaka, Keizo, Tokyo, Japan, and T. Okochi, Clifton, N. J., assignors to Takamine Ferment Company, New York, N. Y. Producing diastatic product. 1,680,926; Aug. 14.
Worthington, Richard C., and H. Milner, Blackpool, England. Variable-speed gear. 1,680,714; Aug. 14.
Wright, Clyde S., and J. R. Mahan, assignors to The National Supply Company, Toledo, Ohio. Coordinated brake and clutch mechanism. 1,680,715; Aug. 14.
Wright, James C. (See Wheeler, E. B., and Wright.)
Wyman-Gordon Company. (See Damerell, Mark H., assignor.)
Yablick, Max, Newark, N. J., assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Flutter valve. 1,680,757; Aug. 14.
Yale Electric Corporation. (See Stimson, Frank G., assignor.)
Yanss, George W., Bridgeport, Conn., assignor to American Chain Company, Inc. Automobile bumper bracket. 1,680,927; Aug. 14.
Yanss, George W., Bridgeport, Conn., assignor to American Chain Company, Inc. Automobile bumper bracket. 1,680,928; Aug. 14.
Yaraus, Morris E., Cambridge, Mass. Indoor parlor miniature football game. 1,680,356; Aug. 14.
Young, Samuel, San Francisco, Calif. Smoking set. Des. 76,110; Aug. 14.
Zahn, Lawrence J., Long Island City, assignor to International Postal Supply Company, Brooklyn, N. Y. Mail-marking machine. 1,680,313; Aug. 14.
Zangerle, Augustus J., Buffalo, and W. J. Zangerle, Mount Morris, N. Y. Sign. 1,680,581; Aug. 14.
Zangerle, William J. (See Zangerle, Augustus J. and W. J.)
Zidell, William I., Los Angeles, Calif. Chromatic-scale keyboard. 1,680,582; Aug. 14.
Zinke, Alois, and K. Funke, Graz, Austria, assignors to F. Bensa, Genoa, Italy. Manufacture of highly-chlorinated perylenes. 1,681,077; Aug. 14.
Zook, David F., Evanston, Ill. Oil purifier. 1,680,716; Aug. 14.
Zublin, John A., Los Angeles, Calif., and W. L. Borough, Fullerton, Calif.; said Borough assignor to said Zublin. Reciprocating pump with individual joints between plungers. 1,680,717; Aug. 14.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 14TH DAY OF AUGUST, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Acid, Manufacture of 2-hydroxy-3-bromo-5-pyridin arsonic. A. Binz and C. Räth. 1,680,587; Aug. 14.
Acid, Producing hydrocyanic. M. J. Brown and E. A. Harding. 1,680,662; Aug. 14.
Acid, Producing phosphoric. H. Laug. 1,680,625; Aug. 14.
Acids, Esters of unsaturated. W. Münich. 1,680,799; Aug. 14.
Acidity or alkalinity of decomposed product or products by glutamic acid or its salts, Neutralizing. M. Fujii. 1,680,865; Aug. 14.
Adapter, Universal. B. D. Horton. 1,680,787; Aug. 14.
Adjustable bracket. G. A. McDonald. 1,680,560; Aug. 14.
Aeroplane. O. L. R. Jones. 1,680,523; Aug. 14.
Aeroplane landing and launching device. O. Parker. 1,680,473; Aug. 14.
Aeroplane, Sea and land. S. Vitányi. 1,681,071; Aug. 14.
Air to ice-making plants, Apparatus for supplying dehumidified. I. C. Jennings. 1,680,381; Aug. 14.
Alloy. F. Visintainer. 1,680,577; Aug. 14.
Alloy and its uses. W. P. Dreaper. 1,680,598; Aug. 14.
Alloy, Steel. G. L. Norris. 1,680,301; Aug. 14.
Alloying compound, Molybdenum. E. A. Lucas. 1,681,123; Aug. 14.
Alloying compounds, Manufacturing molybdenum. E. A. Lucas. 1,681,124; Aug. 14.
Amplifying system. W. A. MacDonald. 1,680,424; Aug. 14.
Amusement apparatus. W. B. Waring. 1,680,350; Aug. 14.
Anchor, Rail. J. A. Dienner and A. C. Mabee. 1,680,669; Aug. 14.
Anchor, Rail. H. G. Warr. 1,680,437; Aug. 14.
Anchor, Railway-rail. J. A. Hyle and C. R. Keatley. 1,680,378; Aug. 14.
Animating objects, Device for. E. G. and G. Goerk. 1,680,982; Aug. 14.
Antenna, Directive. R. Bown. 1,680,363; Aug. 14.
Antirachitic product and process. H. Steenbock. 1,680,818; Aug. 14.
Antirickетic substances and the production thereof. A. J. Pacini. 1,681,120; Aug. 14.
Antiskid device. J. D. Richie. 1,680,569; Aug. 14.
Antiskidding link. F. Markwick. 1,681,125; Aug. 14.
Apparel garment. W. Kops. 1,680,997; Aug. 14.
Aquarium stand. H. Scheiner and J. and P. Silberhartz. Des. 76,057; Aug. 14.
Arcs, Apparatus for interrupting electric. O. H. Eschholz. 1,680,671; Aug. 14.
Atomizer or similar article. F. W. Smith. Des. 76,065; Aug. 14.
Awning protector. G. M. Schmidt. 1,681,016; Aug. 14.
Axle of the single type comprising loose vehicle wheels mounted upon stationary axles, Driving. A. Huguenin. 1,680,884; Aug. 14.
Badge or similar article. C. D. Easly. Des. 76,010; Aug. 14.
Baffle for water-tube boilers. N. Appenzeller. 1,680,314; Aug. 14.
Bag: *See*—
  Golf bag.
Bag or pocketbook, Woman's hand. M. J. Marymont. 1,680,464; Aug. 14.
Baker's peel. R. A. Minsterman. 1,680,904; Aug. 14.
Banjo or the like musical instrument. W. H. DeWick. 1,681,148; Aug. 14.
Battery-charging system, Storage-. W. T. Knieszner. 1,680,947; Aug. 14.
Bearing structure for vacuum-cleaner brushes and the like. H. T. Lang. 1,680,741; Aug. 14.
Belt clamp. B. L. Walkup. 1,680,919; Aug. 14.
Bevel-gear generator. J. L. Perkins. 1,680,802; Aug. 14.
Bill fold. C. L'Enfant. 1,680,687; Aug. 14.
Binding machine. J. J. Kluck. 1,680,888–9; Aug. 14.
Bleachery reel. J. J. Lyth. 1,680,387; Aug. 14.
Block: *See*—
  Building block.
Blower apparatus, Reversible. P. Faber. 1,680,775; Aug. 14.
Board, Manufacture of fiber. R. A. Marr. 1,680,896; Aug. 14.
Bodice, Bust. R. L. Kennedy. 1,681,119; Aug. 14.
Boiler: *See*—
  Flash boiler. Steam boiler.
  Gas-fired boiler.
Boiler. J. H. Baker. 1,680,931; Aug. 14.
Boiler furnace. W. A. Jones. 1,680,945; Aug. 14.
Boiler washing and refilling device. M. Downer. 1,680,772; Aug. 14.

Bombs and for rendering their fuses active, Discharging. B. Pantoflicek. 1,681,007; Aug. 14.
Book end. A. L. Jack. Des. 76,020; Aug. 14.
Book hanger and advertising medium, Combined. E. E. O'Connor. 1,680,302; Aug. 14.
Book, Manifolding sales. E. K. Bottle. 1,680,933; Aug. 14.
Boots and shoes, Making. A. W. Donovan. 1,680,670; Aug. 14.
Boring wells and the like, Apparatus for. M. A. Capelluschnicoff. 1,681,094; Aug. 14.
Bottle. P. E. Kekenes. Des. 76,022; Aug. 14.
Bottle. F. R. Miller. Des. 76,032; Aug. 14.
Bottle cap and dispensing straw. F. Rosenthal. 1,680,341; Aug. 14.
Bottle or similar container. C. L. Pfeiffer. Des. 76,043; Aug. 14.
Bottles and other articles, Apparatus for setting up and transferring. A. N. Cramer. 1,680,283; Aug. 14.
Box: *See*—
  Cigarette box. Lock box.
  Display box. Suction box.
  Fill box. Suit box.
Box. A. Hadl. 1,680,539; Aug. 14.
Bracelet. C. R. Tost. 1,680,706; Aug. 14.
Bracelet, Flexible. A. L. Newman and O. R. Mitchell. 1,680,628; Aug. 14.
Bracelet or similar article. O. Pennino. Des. 76,040; Aug. 14.
Bracket: *See*—
  Adjustable bracket. Bumper bracket.
Braid, Trimming. A. W. Rockwood. Des. 76,049–50; Aug. 14.
Brake: *See*—
  Car brake. Relining brake.
  Expansible brake. Vacuum brake.
  Hand brake.
Brake and clutch mechanism, Coordinated. C. S. Wright and J. R. Mahan. 1,680,715; Aug. 14.
Brake apparatus, Air-. C. L. Frantz. 1,680,533; Aug. 14.
Brake-beam assembly. H. M. Bowden. 1,681,090; Aug. 14.
Brake-beam safety bars, Mounting for. E. G. Busse. 1,680,448; Aug. 14.
Brake mechanism. R. S. Sanford. 1,681,014; Aug. 14.
Brake mechanism for vehicles. D. R. Capes. 1,680,319; Aug. 14.
Brake rigging, Foundation. W. H. Sauvage. 1,681,054; Aug. 14.
Brake-rigging regulator. W. H. Sauvage. 1,681,051–3; Aug. 14.
Brake-rigging regulator. W. H. Sauvage. 1,681,055–60; Aug. 14.
Brake shoe. M. Longhead. 1,680,911; Aug. 14.
Brake system, Fluid-pressure. F. S. Duesenberg. 1,681,030; Aug. 14.
Bread-roll press. F. Magaziner. 1,680,463; Aug. 14.
Bread-splitting machine. J. C. Freeman. 1,680,779; Aug. 14.
Brick, Composite. W. R. Chapin. 1,681,028; Aug. 14.
Bridge. J. B. Strauss. 1,680,821; Aug. 14.
Brooch or similar article. O. Pennino. Des. 76,039; Aug. 14.
Broom rake. F. E. Conley. 1,680,593; Aug. 14.
Brush, Bottle-cleaning. E. H. Wittenberg. 1,680,713; Aug. 14.
Brush machine, Universal. C. Jobst. 1,680,521; Aug. 14.
Brush machines, Work holder for. C. Jobst. 1,680,520; Aug. 14.
Brushes and brooms, Bristle-holding device for. L. E. Goeller. 1,680,512; Aug. 14.
Buckle, Belt. G. W. Troop. 1,680,488. Aug. 14.
Building block. S. Gangmark. 1,680,781; Aug. 14.
Building block, Ventilated. W. Meyer. 1,680,626; Aug. 14.
Bulb carrier, Extra-. F. G. Stimson. 1,680,484; Aug. 14.
Bumper. R. W. Nilsson. Des. 76,035; Aug. 14.
Bumper, Automobile. W. E. Hart. 1,680,879; Aug. 14.
Bumper bracket, Automobile. G. W. Yanss. 1,680,927–8; Aug. 14.
Bumper for vehicles, Safety. A. A. Theodoropulos. 1,681,069; Aug. 14.
Burner: *See*—
  Oil burner.
Bushing remover. E. Cookenmaster. 1,680,320; Aug. 14.
Buttons of garments, Backing device for the. M. I. F. Kinney. 1,680,623; Aug. 14.
By-pass lubricator. A. L. Eicher. 1,680,328; Aug. 14.
Cable, High-tension underground. W. C. Hayman. 1,680,679; Aug. 14.

Calibrating instrument for paper-making machines. L. T. Murphy. 1,680,690; Aug. 14.
Caliper. G. Parker. 1,680,566; Aug. 14.
Camera. W. E. Stark and S. H. Drake. 1,680,647; Aug. 14.
Candy-forming machine. B. O. Westerfield. 1,680,440; Aug. 14.
Car brake, Railway-. C. A. Brennan. 1,680,968. Aug. 14.
Car, Funeral. R. Silver. 1,680,811; Aug. 14.
Car replacer. A. Lymburner. 1,680,895; Aug. 14.
Carbonizing apparatus. H. Hennebutte and E. Goutal. 1,680,613; Aug. 14.
Carburetor. J. W. Cottingham. 1,680,766; Aug. 14.
Carrier: *See*—
  Bulb carrier.
Case: *See*—
  Cigarette case. Display case.
Casing for a clothes-washing machine. C. Roberts. Des. 76,048; Aug. 14.
Casing head. J. W. McQuaid. 1,680,900; Aug. 14.
Casing, Signal-. M. B. Hitzeman. Des. 76,019; Aug. 14.
Caster. J. Bowen. 1,680,446; Aug. 14.
Catalyst compact and making same. W. Schultze. 1,680,807; Aug. 14.
Cellulose in presence of a phenol, Esterification of. C. Diamond. 1,681,103; Aug. 14.
Ceramic product and producing the same. L. R. Wilder. 1,680,832; Aug. 14.
Chain hook. F. B. King. 1,680,551; Aug. 14.
Chair for vehicles, Auxiliary. A. C. Lawler. 1,680,794; Aug. 14.
Chandelier. T. J. Petersen. Des. 76,041; Aug. 14.
Chandelier. I. Rosenblatt. Des. 76,051–2; Aug. 14.
Chandelier. I. Rosenblatt. Des. 76,054; Aug. 14.
Check protector. G. W. Beebe. 1,680,443; Aug. 14.
Chimney flashing. J. A. Lock. 1,680,298; Aug. 14.
Chisel and piston retainer. E. H. Shaff. 1,680,644; Aug. 14.
Chuck, Drill. G. J. Palaith. 1,680,631; Aug. 14.
Chute, Playground. R. W. Thornton. 1,680,753; Aug. 14.
Cigar-bunch machine. R. R. Kitchel, J. L. Lippard, and J. E. Mullan. 1,680,996; Aug. 14.
Cigarette box. D. Viola. 1,680,826; Aug. 14.
Cigarette case. F. F. Danville. 1,680,324; Aug. 14.
Cigarette case. E. Gregory. 1,680,782; Aug. 14.
Circuit interrupter, Motor-operated. W. M. Austin. 1,680,405; Aug. 14.
Circuit tracer, Electric-. H. R. Bartlett. 1,680,841; Aug. 14.
Circuit treating apparatus, Preventing losses in closed-. J. M. Coabran. 1,680,452; Aug. 14.
Circuits, Oscillation-control. F. H. Dalet. 1,681,102; Aug. 14.
Circuits, Repeater. C. S. Demarest. 1,680,367; Aug. 14.
Clamp: *See*—
  Belt clamp.
Clamping device, Mop-handle-. F. M. Robinson, jr. 1,681,011; Aug. 14.
Classification system, Railway-car. C. W. Prescott. 1,681,131; Aug. 14.
Cleaner: *See*—
  Sink cleaner.
Cleaning apparatus, Cotton-. J. C. Garner. 1,680,978; Aug. 14.
Cleaning attachment for loading machines, Track-. E. Bottomley and F. Welch. 1,681,089; Aug. 14.
Clip: *See*—
  Laminate-spring clip. Retaining clip.
Clip. A. F. Shore. 1,680,435; Aug. 14.
Clock, Electrically-operated. M. A. Standow. 1,680,700; Aug. 14.
Clocks, Controlling system for motor-driven. S. Keilien. 1,680,686; Aug. 14.
Clocks, Driving device for program. C. E. Larrabee. 1,680,742; Aug. 14.
Closure, Bottle. J. M. L. Groby. 1,681,036; Aug. 14.
Closure, Flexible. R. H. Binns. 1,680,362; Aug. 14.
Closure, Receptacle. L. R. N. Carvalho. 1,680,763; Aug. 14.
Cloth-rolling machine. P. Gardner. 1,680,979; Aug. 14.
Clothes drier. S. Kilimnick. 1,680,524; Aug. 14.
Clothes rod. L. Raggio. 1,681,010; Aug. 14.
Clutch. C. B. Spase. 1,680,751; Aug. 14.
Coffee-Making device. J. D. Houck. 1,680,519; Aug. 14.
Coil mounting. P. M. Hengstenberg. 1,680,415; Aug. 14.
Coil or voltage transformer for high voltages, Earthing choking. E. Pfiffner. 1,680,910; Aug. 14.
Coil-spreading device. A. W. Bjorkman. 1,680,847; Aug. 14.
Coloring mineral matter. H. C. Fisher. 1,680,941; Aug. 14.
Combustion, Method and apparatus for the control of. F. H. Willcox. 1,680,833; Aug. 14.
Compensator, Press. J. C. Ledbetter. 1,680,891; Aug. 14.
Compound stock, Making. J. J. Dugan. 1,680,369; Aug. 14.
Concrete columns, Reenforcement for. A. A. Clement. 1,680,935; Aug. 14.
Concrete-form construction or the like. C. I. Williams. 1,680,923; Aug. 14.
Concrete former. J. A. Hintze. 1,680,542; Aug. 14.
Concrete mixer. A. Reuss. 1,680,339; Aug. 14.
Concrete mixing and distributing machine. E. O. Hamren. 1,680,375; Aug. 14.
Condensation product and making the same. A. L. Brown. 1,680,408; Aug. 14.
Condenser. E. M. Salerni. 1,680,641; Aug. 14.
Condenser, Electric. O. Steiner. 1,680,702; Aug. 14.
Condenser, Electrostatic. F. O. Johnson. 1,680,546; Aug. 14.
Condenser, Variable. H. H. Shotwell. 1,680,810; Aug. 14.
Conduit system, Gas-producer. H. M. Robertson. 1,680,340; Aug. 14.
Connecting rod and its component bearings. A. C. and S. M. Sloan. 1,680,917; Aug. 14.
Contact-connecter shunt. R. L. Stancliff. 1,680,701; Aug. 14.
Container. A. Vischer, jr. 1,681,150; Aug. 14.
Container and cooler, Combination. J. I. Wohl. 1,681,076; Aug. 14.
Container and sprayer, Combined liquid. G. B. Graf and F. E. Whitman. 1,680,983; Aug. 14.
Container, Display. A. J. Tanner. 1,680,309; Aug. 14.
Container, Display and dispensing. E. Messer. 1,680,335; Aug. 14.
Container for collapsible tubes. J. Lesquendieu. 1,680,462; Aug. 14.
Container, Refuse. J. H. Stean. 1,680,957; Aug. 14.
Container, Sanitary milk-bottle. S. J. Bailey. 1,681,080; Aug. 14.
Container, Welded sheet-metal. H. H. Gary. 1,680,535; Aug. 14.
Control apparatus. A. C. Connell. 1,680,765; Aug. 14.
Control apparatus. K. A. De Tar. 1,680,732; Aug. 14.
Control apparatus. K. A. Simmon. 1,680,394; Aug. 14.
Control for power distribution, Power-factor. S. Melton. 1,681,005; Aug. 14.
Control for power systems, Power-factor. S. Melton. 1,681,004; Aug. 14.
Control mechanism. C. Schütz. 1,680,808; Aug. 14.
Control mechanism for change making and ejecting device. F. Hedley and J. S. Doyle. 1,680,458; Aug. 14.
Control mechanism for fuel atomizers, Safety. L. I. Aldrich. 1,680,929; Aug. 14.
Control, Speed-reducing. A. E. H. Gravillon. 1,680,874; Aug. 14.
Control system. R. C. Deale and R. H. Rausch. 1,680,730; Aug. 14.
Conveyer. C. W. Shanaberger. 1,680,695; Aug. 14.
Conveying apparatus, Fluid. W. C. White. 1,680,831; Aug. 14.
Cooling system, Building-. B. J. Nuccio. 1,680,472; Aug. 14.
Corkscrew. T. Harding. 1,680,291; Aug. 14.
Cotton separator. J. C. Garner. 1,680,977; Aug. 14.
Cover and frame, Trench. E. W. N. Boosey. 1,680,280; Aug. 14.
Cover for conduit fittings. E. W. N. Boosey. 1,680,279; Aug. 14.
Cover for vehicles. J. H. Sparshatt. 1,681,062; Aug. 14.
Covering apparatus, Box. R. G. Clark. 1,680,764; Aug. 14.
Crate, Shipping. R. Steele. 1,681,063; Aug. 14.
Cravat or tie, Machine-stitched. A. A. Baker. 1,681,079; Aug. 14.
Crossing signal, Automatic railway. A. Franzen. 1,680,605; Aug. 14.
Crossing signal, Railway-. G. Dalén. 1,680,767; Aug. 14.
Cryptogram. W. R. Summers. 1,681,066; Aug. 14.
Culket dump for leers. T. E. Beach. 1,680,361; Aug. 14.
Cultivator. G. W. Ray. 1,680,914; Aug. 14.
Cupola with forehearth. H. Luyken. 1,681,043; Aug. 14.
Current induction. A. H. Davis, jr. 1,680,595; Aug. 14.
Current system, Carrier-. E. Austin. 1,680,759; Aug. 14.
Current voltage in metal-vapor-rectifier installations, System for regulating the direct. J. Jonas. 1,680,790; Aug. 14.
Cushion. I. W. Garfield. 1,681,111; Aug. 14.
Cushion. M. E. White. 1,680,963; Aug. 14.
Cushion for church pews, Knee. D. F. Ducy. 1,680,509; Aug. 14.
Cut-out and plug. W. P. Briggs. 1,680,969; Aug. 14.
Cut-out machine for shoe uppers. B. W. Freeman. 1,681,033; Aug. 14.
Cutter-hanger circle. G. B. Geiser. 1,680,980; Aug. 14.
Cylinder of internal-combustion engines. A. W. Wall. 1,680,710; Aug. 14.
Damper. W. L. Sharp. 1,680,696; Aug. 14.
Decorating metal articles. P. A. Reutter. 1,680,801; Aug. 14.
Dental flask. W. J. Clark, and W. M. Romine. 1,680,364; Aug. 14.
Denture attachment. I. Stern. 1,680,305; Aug. 14.
Denture attachment. I. Stern. 1,680,307; Aug. 14.
Diacetate, Preparation of ethylidene. M. E. Bouvier and L. Hugoniot. 1,680,760; Aug. 14.
Dial frame. C. D. Fagan. Des. 76,011; Aug. 14.
Diastatic product, Producing. K. Wooyenaka, and T. Okochi. 1,680,926; Aug. 14.
Die: *See*—
  Pulp suction die.
Diestock. J. J. Grove. 1,680,984; Aug. 14.
Dishwater. H. F. Voshardt. 1,680,962; Aug. 14.
Disk for elastic material, Assembly. C. E. Callahan. 1,680,318; Aug. 14.
Dispenser for soaps, creams, or the like. J. Karpe. 1,680,994; Aug. 14.
Dispensing device, Bottle-. A. O. Guerris. 1,680,876; Aug. 14.
Display box. J. Bulova. 1,681,092; Aug. 14.
Display case. M. Albaugh. 1,680,275; Aug. 14.
Display stand. J. Sobel. Des. 76,066; Aug. 14.

Displaying flowers, Device for. E. A. Kemp. 1,681,040; Aug. 14.
Distillation, Fractional. J. W. Lewis, jr. 1,680,421; Aug. 14.
Distilling hydrocarbons. F. E. Wellman. 1,680,580; Aug. 14.
Distribution, System of. E. F. W. Alexanderson. 1,680,758; Aug. 14.
Distributor for condiments and the like. A. Angell. 1,680,584; Aug. 14.
Diving apparatus. C. J. Cooke. 1,681,029; Aug. 14.
Doll. S. A. Milliken. Des. 76,033; Aug. 14.
Door. F. W. Hargrave. 1,680,987; Aug. 14.
Door construction, Metal. A. R. Gross. 1,680,538; Aug. 14.
Door for box cars, Grain-car. A. Gillingham and E. Bjork. 1,681,113; Aug. 14.
Door mounting. R. L. Jewell. 1,680,332; Aug. 14.
Door-operating mechanism, Garage-. J. R. Harris. 1,680,517; Aug. 14.
Door, Ventilating. C. E. Weaver. 1,680,439; Aug. 14.
Douche and syringe. J. W. and L. W. Butler. 1,680,762; Aug. 14.
Dough mixer. F. X. and E. J. Lauterbur. 1,680,948; Aug. 14.
Draft connection. H. L. Ingersoll. 1,680,885; Aug. 14.
Drapery-pole bracket. R. H. Vermillion. Des. 76,096–109; Aug. 14.
Drapery-pole center. R. H. Vermillion. Des. 76,094–5; Aug. 14.
Drapery-pole end. R. H. Vermillion. Des. 76,071–93; Aug. 14.
Drawer pull. E. H. Ellison. 1,680,602; Aug. 14.
Dress, Knitted. M. Gross. Des. 76,015; Aug. 14.
Drier: *See*—
Clothes drier. Fabric drier.
Dry cells and batteries, Storage of. E. B. Wheeler and J. C. Wright. 1,680,656; Aug. 14.
Drying apparatus. F. L. Allen and A. D. Flower. 1,680,274; Aug. 14.
Drying machines, Form carrier for. W. P. Greiner and H. Morshead. 1,681,143; Aug. 14.
Dyeing yarn, Apparatus for. L. Bonnous. 1,681,088; Aug. 14.
Dyeings on the fiber, Producing fast. T. Kirchelsen and J. Gürtler. 1,680,791; Aug. 14.
Elbow, Capped. L. H. Church. 1,681,097; Aug. 14.
Electric converters at a constant speed, Regulating system for maintaining. K. Schmidt. 1,680,806; Aug. 14.
Electric-fixture support. W. Symmes. 1,680,576; Aug. 14.
Electric flasher, Automatic. D. Ulrey and D. I. Mayne. 1,680,400; Aug. 14.
Electric furnace. G. M. Little. 1,680,422; Aug. 14.
Electric heater. C. C. Abbott. 1,680,718; Aug. 14.
Electric heater. A. J. Kercher and W. W. Hicks. 1,680,620; Aug. 14.
Electric heater. J. L. Shroyer. 1,680,749; Aug. 14.
Electric iron. C. B. Backer. 1,680,406; Aug. 14.
Electric machines, Power circuit for. V. E. Duemler and G. R. Koeln. 1,680,773; Aug. 14.
Electric switch. A. S. Fitzgerald. 1,680,674; Aug. 14.
Electric switch. J. Pollak. 1,680,568; Aug. 14.
Electric switch, Time-actuated. C. L. Hershey. 1,681,116; Aug. 14.
Electric track switch. R. R. Scoggan. 1,680,304; Aug. 14.
Electrical system and apparatus. R. Dietze. 1,680,733; Aug. 14.
Electrically-heated device. J. L. Shroyer. 1,680,748; Aug. 14.
Electrode and stirring device, Combined. S. A. W. Okell. 1,680,630; Aug. 14.
Electrode for discharge tubes. G. Holst. 1,681,149; Aug. 14.
Electromagnetic device. A. M. Curtis. 1,680,667; Aug. 14.
Electron-discharge device. H. J. Nolte. 1,680,691; Aug. 14.
Electron tubes, Regulating grid voltage of. G. Thilo. 1,680,348; Aug. 14.
Elevator: *See*—
Fish elevator.
Elevators, Control system for. L. I. Davis. 1,680,771; Aug. 14.
Elevators, Control system for. H. L. Heart. 1,680,784; Aug. 14.
Endoscope. R. H. Wappler. 1,680,490; Aug. 14.
Engine: *See*—
Fluid-pressure engine. Stump-pulling engine.
Internal-combustion engine.
Engine, pump, and compressor, Multicylinder reciprocating. R. E. Watts. 1,681,072; Aug. 14.
Engine starter. R. P. Lansing. 1,680,557; Aug. 14.
Engines, Indicating device for internal-combustion. L. A. Mapel. 1,680,425; Aug. 14.
Engines, Intake manifold and heating-medium control for internal-combustion. J. R. Francis. 1,680,373; Aug. 14.
Envelope. L. Kalina. 1,680,946; Aug. 14.
Excavating device. B. P. Crittenden and A. C. Killinger. 1,680,322; Aug. 14.
Excavator. R. Lair. 1,680,585; Aug. 14.
Expander, Flaring. G. R. Mappin. 1,680,708; Aug. 14.
Expansible brake. E. W. Harelik. 1,680,986; Aug. 14.
Extensible device with power indicator for physical culture. L. Meyer. 1,680,901; Aug. 14.
Extension table. L. Cleveland. 1,680,664; Aug. 14.
Eyeglasses, Oxford. H. Higham. 1,681,038; Aug. 14.
Fabric and making the same, Impregnated. H. E. Brown and J. H. Stover. 1,680,497; Aug. 14.
Fabric drier. T. Allsop and W. W. Sibson. Fabric drier. 1,680,522; Aug. 14.
Fan, Electric. W. H. Glider. Des. 76,012; Aug. 14.
Fastener, Chain. C. M. Power. 1,680,475; Aug. 14.
Fastener for hinged structures, Adjustable. J. S. Williams. 1,680,965; Aug. 14.
Fastener, Stair-carpet. E. A. Savary. 1,680,343; Aug. 14.
Fastener, Tire-chain. J. R. Gladden, jr. 1,680,981; Aug. 14.
Fastening, Bolt. L. Purcell. 1,681,048; Aug. 14.
Fastening, Closure. E. A. Knen. 1,681,042; Aug. 14.
Fastening device, Rail-. H. H. Renfroe. 1,681,049; Aug. 14.
Fats from vegetable matter, Extracting. I. S. Hocker. 1,680,943; Aug. 14.
Faucet attachment, Water-supply. L. Kooperstein. 1,680,333; Aug. 14.
Feeding and clamping mechanism for planers, Tool. C. F. Randolph, R. H. Rausch, and N. Marcalus. 1,680,747; Aug. 14.
Feeding apparatus, Mold-charge guide for glass-. K. E. Peller. 1,680,391; Aug. 14.
Feeding device, Card-. E. A. Ford. 1,680,863; Aug. 14.
Feeding machine, Paper-. G. W. Mudd. 1,680,470; Aug. 14.
Feeding mechanism for confectionery machines. A. L. Bausman. 1,680,842; Aug. 14.
Feeding mechanism for machine tools, Manual. C. Bouillon. 1,680,590; Aug. 14.
Feeding method and apparatus, Glass-. S. S. Grotta. 1,680,735; Aug. 14.
Fenders, Manufacturing automobile. M. H. Matheson. 1,680,467. Aug. 14.
Fill box. J. B. Davis. 1,680,770; Aug. 14.
Filling and weighing machine. W. L. Taylor. 1,680,487; Aug. 14.
Filter. E. L. Bishop. 1,680,848; Aug. 14.
Filter attachable to faucet, Water. H. H. Culver. 1,680,323; Aug. 14.
Fireplace. G. W. Guy. 1,680,513. Aug. 14.
Fish elevator. A. A. and C. H. Bennett. 1,680,722; Aug. 14.
Flag attachment. C. Sullivan. 1,680,703; Aug. 14.
Flash boiler. A. G. Garbutt. 1,680,608; Aug. 14.
Flash light. C. Osean. 1,680,800; Aug. 14
Flask: *See*—
Dental flask.
Flask for centrifugal sand molds. W. H. Beatty. 1,681,085; Aug. 14.
Flood light. H. L. Johnston. 1,681,153; Aug. 14.
Fluid pressure booster. J. D. Langdon. 1,680,460; Aug. 14.
Fluid-pressure engine. R. Hamonds. 1,680,877; Aug. 14.
Flying machines, Buoying and driving mechanism for. G. Hedén. 1,680,680; Aug. 14.
Folding and pressing mechanism. E. F. Baldwin and F. E. Woods. 1,680,359; Aug. 14.
Folding machine, Carton-. A. Hoba. 1,680,615; Aug. 14.
Foot mat. M. E. Anderson. 1,680,442. Aug. 14.
Food products, Making baked. J. Matti. 1,680,898; Aug. 14.
Form, Display. J. A. Lalonde. 1,680,528; Aug. 14.
4,4′ dihydroxybisacylamino-arsenobenzenes, Substituted. L. Benda. 1,680,845; Aug. 14.
Frame: *See*—
Sausage-casing frame. Testing frame.
Frame support, Batik-. M. Y. Harmon. 1,680,610; Aug. 14.
Fruit gatherer. C. W. Wood. 1,680,925; Aug. 14.
Fuel, Composition of matter for use as. H. S. Reid. 1,680,392; Aug. 14.
Fuel mixer, Pulverized-. A. A. Wickland. 1,680,964; Aug. 14.
Furnace: *See*—
Boiler furnace. Open-hearth furnace.
Electric furnace. Soldering furnace.
Induction furnace.
Furnace. F. Menne. 1,680,468; Aug. 14.
Furnace. W. F. Weathers. 1,680,654; Aug. 14.
Furnace attachment, Hot-air. E. R. Nevel. 1,680,907; Aug. 14.
Fuses, Setting device for time. N. E. Methlin. 1,680,902; Aug. 14.
Galvanometer. J. W. Legg. 1,680,420; Aug. 14.
Game apparatus. K. J. Evans. 1,680,287; Aug. 14.
Game, Indoor parlor miniature football. M. E. Yarnus. 1,680,356; Aug. 14.
Garage light, Portable. L. Bloom and G. A. Cohan. 1,680,723; Aug. 14.
Gas-analysis apparatus. C. H. Porter. 1,681,047; Aug. 14.
Gas control. C. E. Kimbrough. 1,681,041; Aug. 14.
Gas-fired boiler. A. A. Marks. 1,681,045; Aug. 14.
Gases, Separating and recovering. O. L. Barnebey. 1,680,840; Aug. 14.
Gases, Storing and transporting. P. N. Lucas-Girardville. 1,680,873; Aug. 14.
Gauge: *See*—
Liquid-level gauge. Watchmaker's gauge.
Gear, Draft. H. C. Priebe. 1,680,477; Aug. 14.
Gear, Draft. S. J. Strid. 1,680,308; Aug. 14.
Gear for starting and controlling electric motors, Switch. J. A. Hirst. 1,680,682; Aug. 14.

Gear-generating machine. E. W. Miller. 1,680,562; Aug. 14.
Gear, Sleeve-valve. J. S. Booth. 1,680,445; Aug. 14.
Gear, Variable-speed. R. C. Worthington and H. Milner. 1,680,714; Aug. 14.
Gear worms, Forging. A. L. Elcher. 1,680,327; Aug. 14.
Gearing. T. L. Fawick. 1,680,672; Aug. 14.
Gears, Handwheel and locking device for speed. D. R. Francis. 1,680,975; Aug. 14.
Generating and transmitting system. M. K. Akers. 1,680,273; Aug. 14.
Generator: *See*—
Bevel-gear generator. Potential generator.
Generator for internal-combustion engines, Salvage gas. W. W. Grooms. 1,680,537; Aug. 14.
Glass, Apparatus for producing mold charges of molten. W. J. Miller. 1,681,127; Aug. 14.
Glass, Feeding molten. G. E. Howard. 1,680,543; Aug. 14.
Glass, Method of and apparatus for forming sheet. J. F. Black. 1,680,588; Aug. 14.
Glass-pressing machine. K. E. Peller and E. H. Lorenz. 1,680,474; Aug. 14.
Glass-run-channel construction. J. Ledwinka. 1,680,461; Aug. 14.
Glassware, Blowing. H. W. Ingle. 1,680,544; Aug. 14.
Glassware, Manufacture of. P. Arbelt. 1,680,357; Aug. 14.
Glass washer. V. S. Mackres. 1,681,003; Aug. 14.
Goblet or similar article. J. D. Dithridge. Des. 76,008; Aug. 14.
Golf bag. C. C. Williams. 1,680,354; Aug. 14.
Golf club. T. W. Bryant. 1,680,447; Aug. 14.
Golf club. A. Heeter and W. G. Mattern. 1,680,881; Aug. 14.
Golf club. D. Spittal. 1,680,817; Aug. 14.
Golfers, Practice device for. J. V. Matteson, jr. 1,680,897; Aug. 14.
Grate, Fireplace. A. C. Axford. Des. 75,997; Aug. 14.
Grinder, Swing-frame. F. E. Stratton. 1,680,958; Aug. 14.
Grinding machine, Glass-. K. A. Weber. 1,680,920; Aug. 14.
Ground fitting. A. M. Nugent. 1,681,129; Aug. 14.
Ground-working implement. J. E. Funk. 1,680,866; Aug. 14.
Guard, Highway. P. L. Keiser. 1,680,548; Aug. 14.
Hair-clipping device. C. H. Graeff. 1,680,289; Aug. 14.
Hair-curling apparatus. W. G. Shelton. 1,680,809; Aug. 14.
Hair waver. B. E. Slater. 1,680,698; Aug. 14.
Hair-waving appliance, Permanent-. A. G. Borden. 1,681,024; Aug. 14.
Hamper, Ventilated rodentproof clothes. M. Halpert. Des. 76,017; Aug. 14.
Hand brake. C. E. Dath. 1,680,284; Aug. 14.
Hand brake. J. F. O'Connor. 1,680,336; Aug. 14.
Handles, Mechanism for making battery-box. O. O. Rieser. 1,680,954; Aug. 14.
Handling and drying pulp tubes or the like, Method of and apparatus for. H. Parker. 1,681,145; Aug. 14.
Handling loose materials, Apparatus for. C. E. Davis. 1,680,938; Aug. 14.
Hat. O. Brotelle. 1,680,852; Aug. 14.
Hatrack. J. Broch. Des. 76,001; Aug. 14.
Headlight, Dirigible. J. H. Burnfiel. 1,680,727; Aug. 14.
Headwear, Article of. P. Merton. 1,681,006; Aug. 14.
Header attachment for side-delivery hay loaders. J. A. Dyke. 1,680,597; Aug. 14.
Heat and controlling working substances, Transforming. R. W. Davenport. 1,680,453; Aug. 14.
Heat-conductivity apparatus. F. M. Rowan. 1,680,638; Aug. 14.
Heat interchanger. C. V. Boys. 1,680,850; Aug. 14.
Heater: *See*—
Electric heater. Water heater.
Heating appliance. F. E. Wolcott. 1,681,142; Aug. 14.
Heating device, Electric. F. W. Leevers. 1,680,743; Aug. 14.
Heating system, Electric. L. P. Hynes. 1,680,379; Aug. 14.
Heating unit. J. C. Woodson. 1,680,404; Aug. 14.
Heating unit, Electric. A. J. Kercher. 1,680,621; Aug. 14.
Heaters, Control system for radiant. V. G. Vaughan. 1,680,401; Aug. 14.
Heel-lift-attaching means. B. Gilowitz. 1,680,374; Aug. 14.
Helicopter. H. C. Stewart. 1,681,019; Aug. 14.
Helicopter. R. Tarabia. 1,681,067; Aug. 14.
High-frequency apparatus. F. Gutzmann. 1,680,783; Aug. 14.
Hinge-spacing gauge head. W. C. Starbuck. 1,680,575; Aug. 14.
Hinged connection. J. C. Fuller. 1,681,032; Aug. 14.
Hoist, Dumping-body. E. L. Wood. 1,680,834; Aug. 14.
Holder, Combined wash rag and soap. H. T. Forbis. 1,681,031; Aug. 14.
Holder, Display tool. T. J. Fegley and G. O. Leopold. 1,681,107; Aug. 14.
Holder for teapots and other containers. L. J. Rousselot. 1,680,637; Aug. 14.
Holder for watch and clock movements. R. M. Overlander, jr., and E. W. Overlander. Des. 76,036; Aug. 14.
Holder, Lip-stick. R. W. Wilson. 1,680,755; Aug. 14.
Holder, Necktie. R. E. Perrin. 1,680,432; Aug. 14.
Holder, Printing-plate. E. E. Thiel. 1,680,959; Aug. 14.
Holder, Screwless globe. G. Ainsworth. 1,680,719; Aug. 14.
Holder, Window-sash. L. H. Hood and J. J. Culwell. 1,680,786; Aug. 14.
Holding and guiding means for sliding partitions. C. McVeety. 1,680,561; Aug. 14.
Hollow body. F. G. Siegel. 1,680,697; Aug. 14.
Hook: *See*—
Chain hook.
Humidifying apparatus. J. A. Erwin. 1,680,604; Aug. 14.
Hydrating cement and the like, Method and apparatus for. E. P. Halliburton. 1,680,678; Aug. 14.
Hydraulic jack. T. Gensmer. 1,680,536; Aug. 14.
Illuminating appliance. T. K. Peters. 1,680,633; Aug. 14.
Illusion device. W. A. Burns. 1,680,855; Aug. 14.
Index system, Visible. G. Woodhouse. 1,680,355; Aug. 14.
Indicator: *See*—
Liquid-level indicator. Track-gauge indicator.
Time-clock indicator.
Inductance. F. W. Sickles. 1,680,955; Aug. 14.
Induction furnace. P. H. Brace. 1,680,407; Aug. 14.
Induction motor. H. Maxwell. 1,680,688; Aug. 14.
Ingot mold. E. Gathmann. 1,680,872; Aug. 14.
Inking device for printing and embossing machines. W. C. Fellows. 1,680,530; Aug. 14.
Inking means for printing machines. F. W. Manton. 1,680,559; Aug. 14.
Insulator connecter. G. M. Eaton and E. E. Rose. 1,680,411; Aug. 14.
Insulators, Connecter for strain. G. W. Bower. 1,680,724; Aug. 14.
Insulators, Making. E. Thomson. 1,680,705; Aug. 14.
Internal-combustion engine. F. De Lautour. 1,680,505; Aug. 14.
Internal-combustion engine. L. V. Hosford. 1,680,883; Aug. 14.
Internal-combustion engine. M. Pitzman. 1,680,567; Aug. 14.
Iron: *See*—
Electric iron. Waffle iron.
Iron protector, Smoothing-. M. A. Morse, jr. 1,681,128; Aug. 14.
Jack: *See*—
Hydraulic jack. Lifting jack.
Jar closure. E. P. Rice. 1,680,476; Aug. 14.
Joint. W. Bailey. 1,681,081; Aug. 14.
Journal box for car wheels. J. R. Fleming. 1,680,329; Aug. 14.
Keyboard, Chromatic-scale. W. I. Zidell. 1,680,582; Aug. 14.
Key retainer, Draft-rigging. W. A. Geiger. 1,680,330; Aug. 14.
Knitting machine, Warp-. E. H. Hill and H. Hawkins. 1,680,614; Aug. 14.
Knob construction, Door-. O. Petermann. 1,681,138; Aug. 14.
Lace. H. Seel. Des. 76,059; Aug. 14.
Laminate-spring clip. A. F. Shore. 1,680,436; Aug. 14.
Lamp. E. P. McElvin. 1,680,389; Aug. 14.
Lamp and bracket. J. E. Morgan. 1,680,469; Aug. 14
Lamp base or article of analogous nature. P. Silberhartz. Des. 76,064; Aug. 14.
Lamp base or similar article. F. M. Poritz. Des. 76,044–6; Aug. 14.
Lamp-focusing device. E. C. Albright. 1,680,836; Aug. 14.
Lamp for autos, Illuminating. T. S. Downing. 1,680,508; Aug. 14.
Lamp, Kerosene signaling. F. D. Spear. 1,681,139–40; Aug. 14.
Lamp support. W. L. Morrison. 1,680,951; Aug. 14.
Lamp, Therapeutic. F. A. Anderson. 1,680,583; Aug. 14.
Lantern electric-light fixture. J. Shortt. Des. 76,062; Aug. 14.
Latch. R. G. Moore. 1,680,564; Aug. 14.
Latex and the products obtained thereby, Treating. S. M. Cadwell. 1,680,857; Aug. 14.
Latex, Manufacturing rubber articles from. S. M. Cadwell. 1,680,858; Aug. 14.
Latex, Treating rubber. S. M. Cadwell. 1,680,856; Aug. 14.
Lathes and screw machines, Spring collar. G. J. Palaith. 1,680,632; Aug. 14.
Lever attachment for remote clutch controls. D. H. Gilson. 1,680,780; Aug. 14.
Lifter: *See*—
Tack lifter.
Lifting jack. F. L. Gormley. 1,680,514; Aug. 14.
Light: *See*—
Flash light. Garage light.
Flood light.
Light projector. H. F. King. 1,680,685; Aug. 14.
Lighting fixture. E. J. Dailey, jr. 1,681,151; Aug. 14.
Lighting fixture. E. F. Guth. 1,680,677; Aug. 14.
Lighting fixture. H. Schreibman and L. Goldberg. Des. 76,058; Aug. 14.
Lighting-fixture bracket, Wall. T. J. Petersen. Des. 76,042; Aug. 14.
Lighting-fixture bracket, Wall. I. Rosenblatt. Des. 76,053; Aug. 14.
Lighting fixture, Electric. G. Fread. 1,680,606; Aug. 14.
Lighting-fixture plate or article of analogous nature. A. P. Seidell. Des. 76,061; Aug. 14.
Lighting-fixture strap or article of analogous nature. A. P. Seidell. Des. 76,060; Aug. 14.
Lighting-fixture wall bracket. V. Hagopian. Des. 76,016; Aug. 14.

Liner and can construction. C. Hollen. 1,680,882; Aug. 14.
Lingerie pin. M. E. Klntz. 1,680,552; Aug. 14.
Link: *See*—
Antiskidding link.
Liquid-delivery apparatus. J. J. Hawxhurst. 1,680,457; Aug. 14.
Liquid-level gauge. H. B. Swan. 1,680,485; Aug. 14.
Liquid-level indicator. S. Q. Shannon, and H. P. Randall. 1,680,916; Aug. 14.
Liquid register. W. E. Traylor. 1,680,651; Aug. 14.
Liquids, Process and apparatus for dialyzing. O. M. Urbain. 1,680,349; Aug. 14.
Loading cars, Apparatus for. N. D. Levin. 1,681,001; Aug. 14.
Loading device. J. W. Dawson. 1,680,325; Aug. 14.
Lock. A. R. Smith. 1,681,017; Aug. 14.
Lock and latch, Combined. K. Ando. 1,680,930; Aug. 14.
Lock box, Double. L. H. Birrell. 1,680,661; Aug. 14.
Lock for interlocking levers. S. P. Hull, J. J. Corcoran, and E. A. Everett. 1,680,617; Aug. 14.
Locking device, Box-. H. D. Morton. 1,680,745; Aug. 14.
Locking device for wheel-rim-expanding wedges. E. E. Einfeldt. 1,680,371; Aug. 14.
Locking device, Luggage-. O. J. Wallnsky. 1,680,652; Aug. 14.
Locking means for inner-tube molds and the like, Valve-stem-. W. L. Fairchild. 1,680,777; Aug. 14.
Locking mechanism. E. S. Hutton. 1,680,618; Aug. 14.
Locking rosette. L. A. Dexter. 1,681,147; Aug. 14.
Locomotive structure. W. M. Sheehan. 1,680,434; Aug. 14.
Loom harness mechanism. M. Coningswood. 1,680,501; Aug. 14.
Loud speaker. J. M. Marks. Des. 76,028; Aug. 14.
Lubricating device. J. W. Gardner. 1,680,869; Aug. 14.
Lubricating device for grinding machines. J. Bath. 1,680,360; Aug. 14.
Lubricating mechanism. T. Brady. 1,680,761; Aug. 14.
Lubricating mechanism. J. W. Gardner. 1,680,870–1; Aug. 14.
Lubricating system. J. F. Culp. 1,680,936; Aug. 14.
Lubricator: *See*—
By-pass lubricator.
Lubricator. F. C. Blanchard. 1,680,278; Aug. 14.
Luminaries, Metal collar for. W. A. Ingler. 1,680,788; Aug. 14.
Luminescent tube. R. H. Rundle. 1,680,572; Aug. 14.
Machine for cutting compound curves. R. W. Brown. 1,680,853; Aug. 14.
Machine for inspecting involute curves. E. W. Miller. 1,680,563; Aug. 14.
Machine for making fiber reed. E. F. Baldwin and F. E. Woods. 1,680,358; Aug. 14.
Machine for needles and the like, Straightening. W. Tivendale. 1,680,649; Aug. 14.
Machine for ramming paving stones and the like. E. H. Carlsson. 1,680,450; Aug. 14.
Machine for removing surplus stock from shoes. H. A. Ballard. 1,680,494; Aug. 14.
Machines, Ball-bearing center for. F. H. Becker. 1,681,087; Aug. 14.
Magnet, Picker. W. R. Edson. 1,680,599; Aug. 14.
Magnet switch. C. H. Hodekins. 1,680,416; Aug. 14.
Magnetic pattern. F. R. Craig and J. J. Oling. 1,680,502; Aug. 14.
Magnetic system to control the stop and leveling of elevators. A. S. Gale. 1,680,675; Aug. 14.
Mail-marking machine. L. J. Zahn. 1,680,313; Aug. 14.
Marking tag. W. N. Hemphill. 1,680,459; Aug. 14.
Massaging apparatus. O. Hibner. 1,680,989; Aug. 14.
Mast arm. J. J. Shicklima. 1,680,573; Aug. 14.
Mat: *See*—
Foot mat.
Measuring and cutting device for coil-winding machines, Adjustable. S. Wadsten. 1,680,489; Aug. 14.
Measuring distance, Apparatus for. H. G. Dorsey. 1,680,507; Aug. 14.
Measuring instrument, Electrical. C. T. Mason. 1,680,465; Aug. 14.
Medallion, Lace. W. Meads. Des. 76,031; Aug. 14.
Melting pot, Portable. W. F. Clark. 1,681,099; Aug. 14.
Memo pad, Kitchen. C. M. Kizer. 1,680,525; Aug. 14.
Metal articles, Increasing the strength of sheet. H. Z. Cutler. 1,680,504; Aug. 14.
Metal connection for threaded pipe sections, Wrought-. J. Clark, F. N. Smith, and J. Meese. 1,680,499; Aug. 14.
Meter: *See*—
Stress meter.
Taxicab meter.
Meters, Bottom for water. J. N. Calhoun. 1,681,027; Aug. 14.
Mill for rolling strips and sheets, Method of and. L. Jones. 1,680,522; Aug. 14.
Milling machine, Cylinder-saddle. L. V. Mallory. 1,680,300; Aug. 14.
Mining machine. W. S. Gray. 1,680,942; Aug. 14.
Mining machine. N. D. Levin. 1,680,386; Aug. 14.
Mining machine. T. E. Pray. 1,680,953; Aug. 14.
Mirror or similar article, Hand. L. W. Rice. Des. 76,047; Aug. 14.
Mitten. R. A. Chiles. 1,680,592; Aug. 14.
Mixer: *See*—
Concrete mixer.
Fuel mixer.
Dough mixer.
Mixer-drum construction. E. C. Leach. 1,680,296; Aug. 14.
Mixing machine. J. ver Mehr. Re17,067; Aug. 14.
Moistener, Air. L. A. Fleury. 1,680,532; Aug. 14.
Mold: *See*—
Ingot mold.
Molded article and making the same. G. E. Smith. 1,680,646; Aug. 14.
Molding bottles in single-mold machines. K. E. Peller. 1,680,746; Aug. 14.
Molding device, Metal candy-. K. W. Holzapfel. 1,680,294; Aug. 14.
Motor: *See*—
Induction motor.
Reciprocating motor.
Motor-control system. R. E. Hellmund. 1,680,414; Aug. 14.
Motor controller. T. E. Barnum and H. N. Wade. 1,680,495; Aug. 14.
Motor controller. E. W. Seeger. 1,680,478; Aug. 14.
Motor mounting. L. J. Bechaud. 1,680,843; Aug. 14.
Motor mounting. H. J. Berry. 1,680,967; Aug. 14.
Motors, Brush-lifting device for electric. G. H. Leland. 1,680,795; Aug. 14.
Mounting glasses on the doors of vehicles, Device for. L. Janoir. 1,680,886; Aug. 14.
Mouse and rat trap, Self-setting. E. Harris. 1,680,878; Aug. 14.
Musical instruments, Automatic mechanism for operating drawers of automatic. H. J. La Joie. 1,680,385; Aug. 14.
Negatives for diagnoses, Mounting. E. B. Mabee. 1,680,299; Aug. 14.
Newspaper rack, Portable. H. L. Kuchins. Des. 76,023; Aug. 14.
Nickel, Pulverizing and alloying. W. R. Veazey. 1,680,825; Aug. 14.
Nozzle for sheet-metal containers. H. E. Barroll. 1,681,083; Aug. 14.
Nursery chair. M. M. Sutton. Des. 76,069; Aug. 14.
Oil burner. M. A. Fesler and J. N. MacRae. 1,680,455; Aug. 14.
Oil-burning system. A. A. Steward. 1,681,065; Aug. 14.
Oil purifier. D. F. Zook. 1,680,716; Aug. 14.
Oiler, Wheel-flange. P. H. Hamilton. 1,680,290; Aug. 14.
Open-hearth furnace, Regenerative. S. J. Cort, T. Burns, R. S. A. Dougherty, and C. E. Lehr. 1,680,365; Aug. 14.
Optical mounting. F. R. Bishop. Des. 75,999; Aug. 14.
Optometer and eye-testing apparatus, Dynamic. B. J. Campbell. 1,680,663; Aug. 14.
Ores, Roasting and reducing. B. Christiansen. 1,680,861; Aug. 14.
Ornament for drapery poles or rods, Center. G. Madvig. Des. 72,026–7; Aug. 14.
Oven. J. F. Firestone. 1,680,456. Aug. 14.
Oxygen-containing compounds of the aliphatic series, Manufacturing. I. S. Mellanoff. 1,681,156; Aug. 14.
Package, Sealed. F. W. Horst. 1,680,616; Aug. 14.
Packet, Eye-dressing. E. Remley. 1,680,804; Aug. 14.
Packing and forming machine, Cork. A. F. Muller. 1,680,952; Aug. 14.
Packing, Rod. A. C. Judd. 1,680,684; Aug. 14.
Pad: *See*—
Memo pad.
Panel for electric-light fixtures. J. Shortt. Des. 76,063; Aug. 14.
Paper-crinkling apparatus. W. A. Lorenz. 1,680,797; Aug. 14.
Paper, Deinking. A. R. Lukens. 1,680,949; Aug. 14.
Paper-making machine. A. Bellemare. 1,680,277; Aug. 14.
Paper-rolling machine. W. F. Marresford. 1,681,046; Aug. 14.
Paper, Striping. E. B. Weston. 1,680,711; Aug. 14.
Parathyroid product. L. Berman. 1,680,660; Aug. 14.
Partition and panel structure, Sectional. F. B. Wheat. 1,681,074; Aug. 14.
Pasteurizing and deodorizing cream, Apparatus for. F. L. Armitage. 1,680,720; Aug. 14.
Pencil holder. F. L. Morgan. Des. 76,034. Aug. 14.
Percolator. J. N. Routsos. 1,680,571; Aug. 14.
Perylenes, Manufacture of highly-chlorinated A. Zinke and K. Funke. 1,681,077; Aug. 14.
Petroleum from rubber scrap or vulcanized-rubber waste, Preparing artificial. H. Nishida and K. Shinada. 1,680,908; Aug. 14.
Petroleum hydrocarbons with alcohol, Apparatus for the fractional extraction of. T. A. Werkenthin. 1,680,353; Aug. 14.
Petroleum hydrocarbons with alcohol, Fractional extraction of. T. A. Werkenthin. 1,680,352; Aug. 14.
Photographic film. F. F. Renwick. 1,680,635–6; Aug. 14.
Photographic machine, Coin-controlled. G. A. Svanberg. 1,680,709; Aug. 14.
Pianos, Striker device for player. C. T. Stephens. 1,680,820; Aug. 14.
Pick, Ice. J. N. Edelin. 1,680,774; Aug. 14.
Picture apparatus, Motion-. A. S. Howell. 1,680,295; Aug. 14.
Picture apparatus, Panoramic-moving-. C. Cerqua. 1,680,498; Aug. 14.
Picture-transmitting system. H. Nyquist. 1,680,390; Aug. 14.
Pictures, Method and apparatus for producing colored projected. W. L. Isbills. 1,680,619; Aug. 14.

Pigment and making same, Composite titanium. L. E. Barton and L. W. Ryan. 1,680,316; Aug. 14.
Pile fabric. J. M. Page. Des. 76,037–8; Aug. 14.
Pin: *See*—
Lingerie pin.
Safety pin.
Piping and unsound metal from ingots, Removing. S. S. Ball. 1,680,493; Aug. 14.
Piston expander. F. A. Travis. 1,680,650; Aug. 14.
Planters, Covering wheel for. C. E. White. 1,681,023; Aug. 14.
Plastic material from peat and producing. I. S. Mellanoff. 1,681,155; Aug. 14.
Plate. W. H. Baker. 1,680,839; Aug. 14.
Plate, Escutcheon. W. Sparks. Des. 76,067–8; Aug. 14.
Plate for radioreceivers or the like, Escutcheon. M. Alden. Des. 75,996; Aug. 14.
Plate, Pie. R. M. Smythe. Re17,066; Aug. 14.
Plowshares, Making. W. I. Wheeler. 1,680,830; Aug. 14.
Plumb bob. F. M. Lewis. 1,680,297; Aug. 14.
Pocket, Wall. R. De Boer. 1,680,668; Aug. 14.
Pole end, Drapery-. A. Dlouhy. Des. 76,009; Aug. 14.
Post. J. F. Stimson. 1,681,020; Aug. 14.
Pot: *See*—
Melting pot.
Potential generator, Alternating-. W. H. T. Holden. 1,680,377; Aug. 14.
Power station. T. Stein. 1,680,752; Aug. 14.
Power-stopping device. N. L. Daupiaise. Re17,065; Aug. 14.
Power-transmission device. W. B. McCall. 1,680,899; Aug. 14.
Preserving food products, Composition for. H. Buel. 1,680,934; Aug. 14.
Press: *See*—
Bread-roll press.
Sheet-metal press.
Pressing machines, Mechanical movement for. E. Davis. 1,680,729; Aug. 14.
Pressure-operated instrument. W. H. Fitts. 1,681,109; Aug. 14.
Printing device. U. F. L. Steindorff. 1,680,819; Aug. 14.
Printing device, Automatic time-. C. S. Dutton. 1,680,326; Aug. 14.
Printing presses, Static collector for. C. Wehrle. 1,680,310; Aug. 14.
Product valuable as dispersing agent and making same. F. Feltx. 1,680,778; Aug. 14.
Protective device. W. H. T. Holden. 1,680,518; Aug. 14.
Puller: *See*—
Wheel puller.
Pulleys, Making sheet-metal. H. J. Gilbert. 1,680,985; Aug. 14.
Pulp or the like, Apparatus for making. H. D. Martindale. 1,680,912; Aug. 14.
Pulp suction die. J. F. Low. 1,680,892; Aug. 14.
Pulsator. J. A. Schmitt. 1,681,188; Aug. 14.
Pulverizer. H. G. Lykken. 1,680,894; Aug. 14.
Pump. J. M. Shimer. 1,680,479–80; Aug. 14.
Pump, Centrifugal. F. Neumann. 1,680,906; Aug. 14.
Pump, Gasoline. E. E. Eickmeyer. 1,680,972; Aug. 14.
Pump, Liquid-measuring. E. E. Eickmeyer. 1,681,105; Aug. 14.
Pumping mechanism. J. W. Gardner. 1,680,868; Aug. 14.
Pump, Self-priming centrifugal liquid. I. C. Jennings. 1,680,382; Aug. 14.
Pump with individual joints between plungers, Reciprocating. J. A. Zublin and W. L. Borough. 1,680,717; Aug. 14.
Purifying device. F. G. Londagin. 1,681,002; Aug. 14.
Purifying water. R. B. Derr. 1,680,506; Aug. 14.
Race-starting machine. R. G. Gray. 1,680,875; Aug. 14.
Rack: *See*—
Shelf rack.
Radiator. T. E. Murray, jr. 1,680,471; Aug. 14.
Radiator, Automobile. C. W. Bury. Des. 76,002; Aug. 14.
Radiator cap, Automobile. A. T. R. Hardy. Des. 76,018; Aug. 14.
Radiator casing and hood, Combined. O. H. Clark. Des. 76,005; Aug. 14.
Radiator cover and electric heater. J. L. Gordon. 1,681,114; Aug. 14.
Radiator shell. O. H. Clark. Des. 76,004; Aug. 14.
Radiators, Core for. J. M. Feddera. 1,680,673; Aug. 14.
Radiobroadcast distributing system. E. E. Clement. 1,681,100; Aug. 14.
Radio power-supply unit. P. E. Edelman. 1,680,370; Aug. 14.
Radio receiving inductances, Construction for. T. H. Brennan. 1,680,851; Aug. 14.
Radio slot machine. J. Pinto. 1,680,634; Aug. 14.
Rail, Ball-bearing. M. Snee. 1,680,814; Aug. 14.
Rail truck body, Side-. S. E. Travis, jr. 1,681,021; Aug. 14.
Railroad tie. E. E. Hendrickson, and G. C. Dixon. 1,681,115; Aug. 14.
Rake: *See*—
Broom rake.
Rand bending and molding machine. D. Parks. 1,680,431; Aug. 14.
Range, Gas. T. E. Taylor. 1,681,068; Aug. 14.
Rat trap. T. F. Connolly, and L. Randle. 1,680,594; Aug. 14.
Ratchet mechanism for lifting jacks. F. L. Gormley. 1,680,515; Aug. 14.
Reamer, Valve-seat. W. H. Evans. 1,680,510; Aug. 14.
Receptacle for face powder and the like. P. C. P. Booty. 1,680,317; Aug. 14.
Reciprocating motor. C. S. Weyandt. 1,680,311; Aug. 14.
Recording and reproducing of sound waves. J. L. Walker. 1,680,653; Aug. 14.
Reel: *See*—
Bleachery reel.
Refrigerating and preserving comestibules. P. W. Petersen. 1,681,009; Aug. 14.
Register: *See*—
Liquid register.
Registering device, Double-prism. F. E. Garbutt, and R. G. Fear. 1,680,534; Aug. 14.
Regulating system. E. Courtin. 1,680,728; Aug. 14.
Regulator: *See*—
Brake-rigging regulator.
Thermostatic regulator.
Tension regulator.
Regulator. R. M. Petersime. 1,680,803; Aug. 14.
Regulator. C. H. Smoot. 1,680,750; Aug. 14.
Regulator system. S. A. Staege. 1,680,396; Aug. 14.
Relay. O. C. Travel. 1,680,708; Aug. 14.
Relay system. H. P. Sleeper. 1,680,395; Aug. 14.
Relay, Thermal. A. J. Mottlau. 1,680,429; Aug. 14.
Relay-tripping system. L. N. Crichton, and L. R. Golladay. 1,680,410; Aug. 14.
Relining brake, Quick-. L. Harvey. 1,680,611; Aug. 14.
Retaining clip. F. D. Elliott. 1,680,601; Aug. 14.
Retort, Built-up vertical zinc. F. G. Breyer, and E. H. Bunce. 1,680,726; Aug. 14.
Reversing switch, Pneumatic. L. G. Riley. 1,680,393; Aug. 14.
Rheostat. A. F. C. Lotz. 1,680,744; Aug. 14.
Rice, Extracting, separating, and utilizing the starch and protein contents of. O. Jaschke. 1,681,118; Aug. 14.
Rigging, Draft. D. S. Barrows. 1,680,657; Aug. 14.
Ring. A. Sager. Des. 76,055; Aug. 14.
Rod: *See*—
Clothes rod.
Roller and bearing support therefor. C. S. Card. 1,680,449; Aug. 14.
Rollers and the like relative to each other, Reversing. H. Gearing. 1,680,676; Aug. 14.
Roof flange, Adjustable. D. Weinberg. 1,680,921; Aug. 14.
Rope thimble. C. C. Sunderland. 1,680,346; Aug. 14.
Route guidance. P. M. Krantz. 1,680,998; Aug. 14.
Safety device. A. Panalle, and S. L. Needle. 1,681,130; Aug. 14.
Safety pin. A. Philipp. 1,680,693; Aug. 14.
Safety pin, Laundry. B. Lehwohl. 1,681,122; Aug. 14.
Sash-operating mechanism. E. W. Terbune. 1,681,141; Aug. 14.
Sausage-casing frame. R. Ettlinger. 1,680,286; Aug. 14.
Sawing machine. H. C. Hilke. 1,680,331; Aug. 14.
Scale-hopper bottom. D. W. Ripley. 1,680,570; Aug. 14.
Scale, Weighing. J. Hopkinson. 1,680,683; Aug. 14.
Scissors, Electrically-operated. J. F. Mings and O. W. Freeman. 1,680,627; Aug. 14.
Score card, Baseball. J. Grundy. 1,680,609; Aug. 14.
Scraper, Pile. L. C. Fenn. 1,680,372; Aug. 14.
Scrapers, Self-dumping attachment for road. H. T. Shipley. 1,680,574; Aug. 14.
Screen-decentering device. H. O. Berg. 1,680,585; Aug. 14.
Seal for electric devices. A. W. Hull. 1,680,738; Aug. 14.
Sealing of shafts, Gas-tight. R. H. Wiegert. 1,681,075; Aug. 14.
Sealing receptacles. G. A. Mower. 1,680,905; Aug. 14.
Separating machine, Cotton-. R. E. Wilson. 1,680,712; Aug. 14.
Separator: *See*—
Cotton separator.
Sewing-machine attachment, Fur-. A. Schwartz. 1,680,433; Aug. 14.
Sewing machines, Thread-controlling mechanism for. R. Becker. 1,680,721; Aug. 14.
Sewing machines, Thread cutter for. C. Jebb. 1,680,992; Aug. 14.
Shaker, Salt and pepper. H. N. Baney. Des. 75,998; Aug. 14.
Shaving plane. F. J. Stephan. 1,681,018; Aug. 14.
Sheet-metal press. F. J. Rode. 1,681,012; Aug. 14.
Shelf rack. W. N. Vance. 1,680,960; Aug. 14.
Ship, boat, and other vehicle provided with aerial turbines. L. Constantin and G. Daloz. 1,680,666; Aug. 14.
Ships, Propulsion device for. W. Fila. 1,681,108; Aug. 14.
Shock-absorbing mechanism, Friction. A. M. Brenne. 1,680,282; Aug. 14.
Shock-absorbing mechanism, Friction. S. B. Haseltine. 1,680,292–3; Aug. 14.
Shock-absorbing mechanism, Friction. S. B. Haseltine. 1,680,612; Aug. 14.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,680,337; Aug. 14.
Shoe-trimming machine. B. Jorgensen. 1,680,383; Aug. 14.
Shunt for dynamo-electric machines, Magnetic. R. C. Deale. 1,680,731; Aug. 14.
Sickle. G. K. Thompson. 1,680,824; Aug. 14.
Sign. A. J. and W. J. Zangerle. 1,680,581; Aug. 14.
Sign, Road. N. S. Jewett. 1,680,545; Aug. 14.
Sign, Rotatable. S. S. Benson. 1,680,658; Aug. 14.
Signal: *See*—
Crossing signal.
Stop and slow light signal.
Signal. C. S. Snavely. 1,680,482; Aug. 14.
Signal device. S. J. Crew. 1,680,366; Aug. 14.

Signal lamps, Check on light-. E. C. Larry. 1,681,000; Aug. 14.
Signal switch, Automobile. H. J. Buckner. 1,680,854; Aug. 14.
Signaling by high-frequency currents. A. J. Kloneck. 1,680,554; Aug. 14.
Signaling system. M. B. Kerr. 1,680,550; Aug. 14.
Signals, Indication for color light. S. M. Day. 1,680,971; Aug. 14.
Silo or tank lug. H. C. Rassmann. 1,680,913; Aug. 14.
Sink cleaner. H. Bamberger. 1,681,082; Aug. 14.
Sintering, Method of and apparatus for. H. J. Stehli. 1,680,345; Aug. 14.
Slicer. W. H. Harman. 1,680,988; Aug. 14.
Smoker's stand. J. H. Bradnack. 1,681,025; Aug. 14.
Smoking set. S. Young. Des. 76,110; Aug. 14.
Smoking stand. J. M. Colucci. Des. 76,068; Aug. 14.
Snowplow. M. Veenstra. 1,681,022; Aug. 14.
Snow remover. E. G. Earnhardt. 1,681,104; Aug. 14.
Socket for wire cables or strands. C. C. Sunderland. 1,680,347; Aug. 14.
Soldering furnace. E. D. Fahlberg. 1,680,776; Aug. 14.
Sole-cementing machine. F. E. Williams. 1,680,924; Aug. 14.
Sole-rounding machine. E. E. Sabin. 1,680,342; Aug. 14.
Sorting machine. R. C. and O. B. Hartrampf. 1,680,880; Aug. 14.
Sound reproducer. G. Strobino. 1,680,822; Aug. 14.
Sound-reproducing method and apparatus. G. Ramsey. 1,680,694; Aug. 14.
Spectacle, Double sun. J. Karasievicz. 1,680,995; Aug. 14.
Speed set, Variable-. E. Kloss. 1,680,419; Aug. 14.
Speedometer and motometer, Combined. J. M. Curlee. 1,680,503; Aug. 14.
Spike, Railroad. O. H. Warne. 1,680,351; Aug. 14.
Spool and bobbin. H. D. Clinton. 1,681,096; Aug. 14.
Spoon and fork or similar article, Combined. A. A. Gordon. Des. 76,013; Aug. 14.
Spotlight for vehicles, Dirigible. L. H. Miles. 1,680,903; Aug. 14.
Spray, Oil. C. E. Sims. 1,680,645; Aug. 14.
Spring suspension or shock absorber for vehicles. J. Robinson. 1,681,050; Aug. 14.
Stair nosing. H. A. Welcome. 1,681,073; Aug. 14.
Stamp mounting and label. A. K. Smith, jr. 1,680,699; Aug. 14.
Stand: *See*—
Smokers' stand.
Stand and control switch for electric irons, Supporting. M. A. Reynolds. 1,681,132; Aug. 14.
Stand for smokers' sets. J. H. Bradnack. 1,681,026; Aug. 14.
Steam boiler, Electric. H. V. Stransky. 1,680,397; Aug. 14.
Steam boiler, Horizontal waste-gas. G. Jahn and A. Runkwitz. 1,680,380; Aug. 14.
Steam-generating apparatus. J. S. Seaboalt. 1,681,061; Aug. 14.
Steering device. C. A. Ernst. 1,680,603; Aug. 14.
Steering mechanism. R. Lair. 1,680,556; Aug. 14.
Stenciling method. V. Rosato. 1,681,133; Aug. 14.
Still, Oil-cracking. W. T. Hancock and J. W. Hancock. 1,680,541; Aug. 14.
Still, Oil-refining. O. E. Andrus and S. Hermanson. 1,680,276; Aug. 14.
Stocking. P. Caparell. 1,680,859; Aug. 14.
Stocking. R. Loft. Des. 76,025; Aug. 14.
Stool for service counters. J. S. Walton. 1,680,828; Aug. 14.
Stop and slow light signal, Automatic. G. E. Hoglund. 1,680,944; Aug. 14.
Stopping system for railroad cars, Automatic. J. Farenc. 1,681,106; Aug. 14.
Storage tank, Oil-. M. O. Clark. 1,681,098; Aug. 14.
Store front or similar article. C. La Hatte. Des. 76,024; Aug. 14.
Stress meter, Thermoelectric. W. Bock. 1,680,589; Aug. 14.
Structural unit. D. H. Bitney. 1,680,444; Aug. 14.
Structural unit. R. B. Mitchell. 1,680,427; Aug. 14.
Stump-pulling engine. E. Basthope. 1,680,939; Aug. 14.
Suction box. R. H. Taylor, jr. 1,680,486; Aug. 14.
Suit box. H. R. Bliss. 1,680,932; Aug. 14.
Support or easel, Adjustable. C. Uschmann. 1,681,070; Aug. 14.
Suspenders. R. R. Norwood. 1,680,629; Aug. 14.
Sweeper wheel, Wood-center. F. C. Mason. 1,680,950; Aug. 14.
Swing, Amusement. C. Dahl. 1,680,970; Aug. 14.
Switch: *See*—
Electric switch.
Electric track switch.
Magnet switch.
Reversing switch.
Signal switch.
Thermostatic switch.
Switch mechanism, Inclosed-. O. S. Jennings and F. G. von Hoorn. 1,680,418; Aug. 14.
Synchronizing device. L. F. Kennedy. 1,680,739; Aug. 14.
Synchronizing device. O. C. Traver. 1,680,707; Aug. 14.
Synchronizing device. O. C. Traver. 1,680,754; Aug. 14.
Synchronizing device. F. H. Winter. 1,680,756; Aug. 14.
Table: *See*—
Extension table.
Table. M. M. Sutton. Des. 76,070; Aug. 14.
Table cover or similar article. H. W. Dieck. Des. 76,007; Aug. 14.
Tabulator, Printing. C. D. Lake. 1,680,740; Aug. 14.
Tack lifter. W. E. Gaby. 1,680,607; Aug. 14.
Tag or similar article. J. H. Schaeffer. Des. 76,056; Aug. 14.
Tank: *See*—
Storage tank.
Tank structure. G. M. Eaton. 1,680,412; Aug. 14.
Taxicab meter. F. H. Ruehmeier. 1,680,639; Aug. 14.
Teeth, Molding artificial. G. H. Whiteley, jr. 1,680,312; Aug. 14.
Telegraph circuit. J. Herman and F. J. Singer. 1,680,376; Aug. 14.
Telephone. T. H. Howell and R. G. Ferguson. 1,680,990; Aug. 14.
Telephone device. F. Conrad. 1,680,409; Aug. 14.
Telephone plug. L. G. Pacent. 1,680,430; Aug. 14.
Telephone system. M. B. Staznk. 1,680,344; Aug. 14.
Telephone system, Automatic. J. E. Gardner. 1,681,034-5; Aug. 14.
Telephone system, Automatic. N. H. Saunders. 1,681,015; Aug. 14.
Telephone system, Multioffice. J. E. Ostline. 1,680,565; Aug. 14.
Telephone trunking system, Automatic. J. H. Homrighous. 1,681,039; Aug. 14.
Telescope, Illuminating surgical. R. H. and F. C. Wappler. 1,680,491; Aug. 14.
Temperature-control system. I. G. Thomas. 1,680,398; Aug. 14.
Template. W. A. Cotes. 1,680,500; Aug. 14.
Tension regulator. J. A. Dougins. 1,680,368; Aug. 14.
Terminal box for electric cables, Sleeve. W. W. Emmona. 1,680,940; Aug. 14.
Terminal connecter. A. B. McCall. Des. 76,030; Aug. 14.
Testing apparatus, Electric-meter-. H. J. Blakeslee. 1,680,849; Aug. 14.
Testing device. J. O. Lewis and H. R. Pierce. 1,680,334; Aug. 14.
Testing frame, Curtain-. W. H. Jury. 1,680,547; Aug. 14.
Textile fabric. J. S. Boyd. Des. 76,000; Aug. 14.
Textile fabric. H. Katims and E. Weiner. Des. 76,021; Aug. 14.
Textile fabric. W. H. Mayer, jr. Des. 76,029; Aug. 14.
Thermodynamic effects, Apparatus for producing. R. W. Davenport. 1,680,454; Aug. 14.
Thermostatic regulator. A. J. Mottlau. 1,680,428; Aug. 14.
Thermostatic switch. H. D. Matthews. 1,680,426; Aug. 14.
Tie: *See*—
Railroad tie.
Tie plate and rail anchor, Combination. L. J. Berg. 1,680,586; Aug. 14.
Tile marking and cutting gauge. H. Schmidt. 1,680,805; Aug. 14.
Time-clock indicator. F. E. Crawford. 1,680,321; Aug. 14.
Tinsel and the like and the manufacture thereof. W. H. Schneider. 1,680,303; Aug. 14.
Tire covering. J. H. van Putten and J. H. Sharpe. 1,680,961; Aug. 14.
Tire rim, Collapsible. M. M. and G. D. Kinney. 1,680,887; Aug. 14.
Tires under internal pressure, Apparatus for curing. F. B. Pfeiffer. 1,681,146; Aug. 14.
Toaster, Electric. W. H. Dalton. 1,680,768; Aug. 14.
Toasting device, Electric. C. V. Champion. Des. 76,003; Aug. 14.
Tobacco substitute with therapeutical properties. F. K. Chisholm. 1,680,860; Aug. 14.
Tone arm. L. Baxter. 1,681,084; Aug. 14.
Tool, Bottle-capping. H. J. Lebherz. 1,681,144; Aug. 14.
Tool, Bricklayer's. P. J. Schneider. 1,680,643; Aug. 14.
Tool carriage and slide for machine tools. R. A. Ashton. 1,680,838; Aug. 14.
Tool for applying rail anchors. H. G. Warr. 1,680,438; Aug. 14.
Tool for commutators, Undercutting. E. O. Adkins. 1,680,835; Aug. 14.
Tool for oil wells, Fishing. F. D. Davis. 1,680,596; Aug. 14.
Tool, Pipe-flange. G. E. McDonnell. 1,681,126; Aug. 14.
Tool, Reaming. W. H. Evans. 1,680,466; Aug. 14.
Tool, Surfacing. H. Bauer. 1,680,496; Aug. 14.
Tool, Wheel-rim contracting and expanding. H. L. Eddy. 1,680,600; Aug. 14.
Toothbrush. G. L. Loiselle. 1,680,558; Aug. 14.
Tops, Spinning head for spinning. F. L. Lindstrom. 1,680,423; Aug. 14.
Torpedo. E. F. Chandler. 1,680,451; Aug. 14.
Total-taking device. C. Campbell. 1,681,152; Aug. 14.
Towel, Sanitary. N. Garrow. 1,681,112; Aug. 14.
Toy, Cinematographic. A. Bekesch. 1,680,659; Aug. 14.
Toy, Figure wheeled. A. Capek. 1,681,093; Aug. 14.
Toy, Figure wheeled. G. C. Hunter. 1,680,991; Aug. 14.
Toy glider. M. P. Miller. 1,680,689; Aug. 14.
Track for miniature electric trains. W. E. Thayer. 1,680,918; Aug. 14.
Track for tracklaying vehicles, Flexible. H. A. Knox and B. F. Baker. 1,680,624; Aug. 14.
Track-gauge indicator. L. R. Bryant. 1,681,091; Aug. 14.
Tractor. A. S. Krotz. 1,680,553; Aug. 14.
Tractor attachment. B. R. Benjamin. 1,680,846; Aug. 14.
Train-control apparatus, Automatic. P. J. Clifford. 1,680,665; Aug. 14.

Train-control apparatus, Automatic. A. Langdon. 1,680,999; Aug. 14.
Train control, Automatic. O. A. Ross. 1,681,013; Aug. 14.
Train-dispatching apparatus. R. L. Page. 1,680,692; Aug. 14.
Transmission. L. L. Stewart. 1,680,306; Aug. 14.
Transmitter, Distortionsless dynamic. P. Thomas. 1,680,399; Aug. 14.
Trap: *See*—
Mouse and rat trap.
Trap for sinks and the like, Cleanable. H. A. W. Howcott. 1,681,117; Aug. 14.
Tray for bread-cooling machines. C. A. Adams. 1,680,441; Aug. 14.
Treating and utilizing the black liquor obtained in the manufacture of soda and sulphate cellulose. E. Haglund. 1,680,540; Aug. 14.
Treating food products in closed containers, Apparatus for. J. Coyle. 1,681,101; Aug. 14.
Treating rubber and product. H. E. Cude. 1,680,862; Aug. 14.
Treating rubber-fiber waste material. R. P. Rose. 1,680,915; Aug. 14.
Treating silica articles. E. Herzog. 1,680,681; Aug. 14.
Treating wood. G. A. Richter, W. B. Van Arsdel, and J. G. Gosselink. 1,680,529; Aug. 14.
Treatment of alloy steel. A. C. Davidson. 1,680,937; Aug. 14.
Trigger for pneumatic tools, Safety. E. Malik. 1,681,044; Aug. 14.
Trimming machine. B. Jorgensen. 1,680,384; Aug. 14.
Trolley frog. P. G. Swars. 1,680,704; Aug. 14.
Trolley guard. G. Weber. 1,680,829; Aug. 14.
Truck. F. H. Field. 1,680,531; Aug. 14.
Truck bolster. B. Haskell. 1,681,154; Aug. 14.
Truck construction. W. F. J. Casey, G. Cavin, and C. E. Brooks. 1,681,095; Aug. 14.
Truck, Dumping. N. S. Dunaway. 1,680,734; Aug. 14.
Truck, Railway motor. F. W. Anderson. 1,680,492; Aug. 14.
Trunks and the like, Tie-band-securing device for. S. G. Johnson. 1,680,993; Aug. 14.
Trussed structure. H. F. Frease. 1,680,976; Aug. 14.
Tube: *See*—
Luminescent tube.
Tube and flue expander. G. Wiedeke. 1,680,922; Aug. 14.
Turbine. H. T. Herr. 1,680,785; Aug. 14.
Turbine, Elastic-fluid. F. Hodgkinson. 1,680,737; Aug. 14.
Twisting machine, Crank-shaft-. M. H. Damerell. 1,680,769; Aug. 14.
Typewriting and card-perforating machine, Combined. J. A. B. Smith. 1,680,813; Aug. 14.
Typewriting machine. J. Feibel. 1,680,973; Aug. 14.
Typewriting machine. A. G. Kupetz. 1,680,526; Aug. 14.
Typewriting machine. A. G. F. Kurowski. 1,680,527; Aug. 14.
Typewriting machine. A. G. F. Kurowski. 1,680,793; Aug. 14.
Typewriting machine. J. A. B. Smith. 1,680,481; Aug. 14.
Typewriting machine. B. C. Stickney. 1,680,483; Aug. 14.
Undercarriage for aircraft. A. H. G. Fokker. 1,680,511; Aug. 14.
Urn, Coffee. A. Kleinlercher. 1,680,792; Aug. 14.
Utensil for forming meat loaves. R. D. Spaulding. 1,680,816; Aug. 14.
Vacuum brake. W. O. Kennington. 1,680,549; Aug. 14.
Vacuum control mechanism for pulp-molding machines and the like. J. F. Low. 1,680,893; Aug. 14.
Valve. L. W. Eggleston. 1,681,157; Aug. 14.
Valve. W. E. Sloan. 1,680,812; Aug. 14.
Valve, Automatic control. G. H. Bugenhagen. 1,680,591; Aug. 14.
Valve, Automatic drain. A. Gottschalk. 1,680,288; Aug. 14.
Valve, Engine. L. R. Grames. 1,680,516; Aug. 14.
Valve, Flutter. M. Yablick. 1,680,757; Aug. 14.
Valve for steam engines, Slide. J. Dockings. 1,680,285; Aug. 14.
Valve mechanism, Turbine. F. Hodgkinson and R. C. Allen. 1,680,736; Aug. 14.
Vaporizer. G. R. Welch. 1,680,655; Aug. 14.
Vault and sealing same, Burial. J. J. Scheel. 1,680,642; Aug. 14.
Vehicle, Railway. H. A. Houston. 1,680,417; Aug. 14.
Vehicle washer. E. H. Lostetter. 1,680,796; Aug. 14.
Vehicles, Pneumatic suspension device for. E. J. Laugaudin. 1,680,890; Aug. 14.
Vending container for drinks, Cooling. W. Friedman. 1,681,110; Aug. 14.
Vent and pressure fitting for liquid containers, Air. G. P. Sorensen. 1,680,815; Aug. 14.
Ventilator: *See*—
Window ventilator.
Ventilator for closed vehicles. D. M. Winans. 1,680,966; Aug. 14.
Vulcanizer. T. Bell. 1,681,086; Aug. 14.
Waffle iron. V. G. Vaughan. 1,680,402; Aug. 14.
Wall and building the same, Monolithic. H. S. Ashenhurst. 1,680,837; Aug. 14.
Wardrobe. J. Freeman. 1,680,864; Aug. 14.
Washer: *See*—
Glass washer.
Vehicle washer.
Washing-machine wringer. H. D. Else. 1,680,413; Aug. 14.
Watchcases, Making. G. W. Bowen. 1,680,281; Aug. 14.
Watchmaker's gauge. R. Larsen. 1,681,121; Aug. 14.
Water heater, Electric. A. J. Kercher and W. W. Hicks. 1,680,622; Aug. 14.
Water purifier. J. B. Gall and N. Adam. 1,680,867; Aug. 14.
Weighing mechanism. J. B. Watling. 1,680,579; Aug. 14.
Welder's shield. F. M. Bowers. 1,680,725; Aug. 14.
Welding of copper and copper alloys. F. M. Becket. 1,680,844; Aug. 14.
Wheel: *See*—
Sweeper wheel.
Wheel. D. T. Phillips. 1,680,338; Aug. 14.
Wheel mounting, Dirigible-. L. H. Thoen. 1,680,648; Aug. 14.
Wheel puller. F. G. Eisenhuth. 1,680,974; Aug. 14.
Wheels or other articles, Manufacturing composite rubber. E. S. Teed. 1,680,823; Aug. 14.
Whistle. C. Grein. Des. 76,014; Aug. 14.
Wind-off mechanism, Stock-. H. D. Stevens. 1,681,064; Aug. 14.
Window. F. W. McLean. 1,680,388; Aug. 14.
Window, Celluloid. F. H. Hall. 1,681,037; Aug. 14.
Window-glass guide. E. W. M. Bailey. 1,680,315; Aug. 14.
Window, Metal. J. F. Ruth. 1,680,640; Aug. 14.
Window, Metal. J. F. Ruth. 1,681,134-7; Aug. 14.
Window ventilator. C. F. Parent. 1,680,909; Aug. 14.
Wrench. H. W. Jacobson. 1,680,789; Aug. 14.
Wrench. E. H. Simonsen. 1,680,956; Aug. 14.
Wrench set, Socket-. C. E. Wakefield, J. P. Fleming and J. F. Oliver. 1,680,578; Aug. 14.
Wringer: *See*—
Washing-machine wringer.
Wringer. A. S. Wise. 1,680,403; Aug. 14.
Yeast stimulants and using them. T. B. Wagner. 1,680,827; Aug. 14.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 14, 1928.

NOTE.—First number=class, second number=subclass, third number=patent number.

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270: 1,681,148
423: 1,680,582
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16.4: 1,680,619
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92— 13: 1,680,949
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69: 1,680,797
93— 51: 1,680,615
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94— 49: 1,680,450
95— 9: 1,680,635
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14: 1,680,709
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97— 47: 1,680,846
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98— 2: 1,680,906
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99— 8: 1,680,934
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131— 39: 1,680,865
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132—33.1: 1,681,009
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100— 114: 1,680,500
101— 114: 1,680,500
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360: 1,680,530
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103— 113: 1,680,382
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218: 1,680,972
224: 1,680,480
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257: 1,681,106
265: 1,680,895
105— 62: 1,680,492
118: 1,680,884
172: 1,680,434
175: 1,680,417
194: 1,681,095
229: 1,681,154
106— 22: 1,681,155
107— 4: 1,680,440
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29: 1,680,980
110— 98: 1,680,314
104: 1,680,964
111— 69: 1,681,023
112— 20: 1,680,433
23: 1,680,721
252: 1,680,992
113— 38: 1,681,012
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115— 3: 1,680,666
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116— 114: 1,680,503
116— 173: 1,680,703
121— 32: 1,680,644
35: 1,681,044
114: 1,680,479
184: 1,680,285
122— 6: 1,680,365
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123— 1: 1,680,505
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136— 1: 1,680,656
137— 13: 1,680,279
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143— 41: 1,680,331
146—150: 1,680,988
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158— 77: 1,680,455
164— 93: 1,681,033
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167— 7: 1,680,660
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171— 95: 1,680,420
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175—41.5: 1,680,546
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183— 4: 1,680,840
184— 3: 1,680,290
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184— 13: 1,680,870
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257— 130: 1,680,673
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109: 1,680,965
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271— 44: 1,680,470
272— 56.5: 1,680,753
273— 1: 1,680,287
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293— 55: 1,680,879
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296— 1: 1,680,531
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32: 1,680,887
63: 1,680,950
302— 32: 1,680,533
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305— 10: 1,680,524
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306— 15: 1,681,011
308— 4: 1,680,877
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186: 1,680,741
312— 63: 1,680,275
77: 1,680,826
172: 1,680,864

Aug. 21, 1928

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A/S Hermetikfabriken "Norrig", Stavanger, Norway. Canned kippered herrings, kippered snacks, and smoked sardines. 245,704; Aug. 21; Serial No. 261,781; published June 12, 1928. Class 46.

Adsign Corporation, New York, N. Y. Electrical advertising signs. 245,863; Aug. 21; Serial No. 249,318; published June 5, 1928. Class 21.

Aetna-Standard Engineering Company, The, Youngstown, Ohio. Rolling-mill machinery. 245,619; Aug. 21; Serial No. 260,611; published June 5, 1928. Class 23.

Albert Godde, Bedin, Inc., New York, N. Y. Silk piece goods. 245,884; Aug. 21. Class 42.

Aliko Chocolate Co. Inc., New York, N. Y. Chocolate pralins, chocolate, and candies. 245,625; Aug. 21; Serial No. 259,524; published June 5, 1928. Class 46.

Allied Drug Stores, Inc., Chicago, Ill. Price cards or tickets, window display cards, etc. 245,822; Aug. 21; Serial No. 250,781; published June 5, 1928. Class 38.

Allied Packers Incorporated, Chicago, Ill. Pork hams, bacon, etc. 245,826; Aug. 21; Serial No. 214,573; published June 5, 1928. Class 46.

Al-Lon Mfg. Co. Inc., Baltimore, Md. Mattress covers and blanket covers made of textile fabric. 245,692; Aug. 21; Serial No. 264,936; published June 5, 1928. Class 42.

American Broom & Brush Company, Amsterdam, N. Y. Brooms. 72,348; renewed Jan. 19, 1929.

American Caramel Company, York, Pa. Candy. 245,831; Aug. 21; Serial No. 248,145; published June 5, 1928. Class 46.

American Platinumsmiths, New York, N. Y. Articles of jewelry. 245,730; Aug. 21; Serial No. 264,344; published June 5, 1928. Class 28.

American Rubber & Tire Co., The, doing business as The Artco Rubber & Tire Co., Akron, Ohio. Pneumatic rubber tires and tubes. 245,711; Aug. 21; Serial No. 265,183; published June 5, 1928. Class 35.

American Society of Mechanical Engineers, The, New York, N. Y. Filing-system printed cards issued weekly. 245,754; Aug. 21; Serial No. 264,630; published June 5, 1928. Class 38.

American Tar Company, Boston, Mass. Preparations for oiling roads. 70,388; renewed Aug. 25, 1928.

American Tar Company, Boston, Mass. Preparations for oiling roads. 70,389–90; renewed Aug. 25, 1928.

American Writing Paper Company, Incorporated, Holyoke, Mass. Writing and printing paper. 245,886; Aug. 21. Class 37.

Ansell, Benjamin, doing business as Benjamin Leland & Company, St. Louis, Mo. Certificates. 245,823; Aug. 21; Serial No. 249,034; published June 5, 1928. Class 38.

Appelbee & Neuman, assignor to Appelbee & Neuman, Inc., New York, N. Y. Buttons and buckles. 71,987; renewed Dec. 29, 1928.

Artco Rubber & Tire Co., The. (See American Rubber & Tire Co., The.)

Atkins, E. C., & Company, Indianapolis, Ind. Trowels of all kinds. 245,769; Aug. 21; Serial No. 264,134; published June 12, 1928. Class 23.

Atlantic Macaroni Co., The, New York, assignor to The Atlantic Macaroni Co. Inc., Long Island City, N. Y. Macaroni. 71,274; renewed Nov. 17, 1928.

Automotive Royalties Corporation, Inc., The, New York, N. Y. Trade journals, pamphlets, or so-called house organs. 245,699; Aug. 21; Serial No. 265,421; published June 12, 1928. Class 38.

Autopiano Company, The, New York, N. Y. Automatic piano players. 69,922; renewed July 21, 1928.

Ayer, Harriet H., Inc. (See Thomas, Vincent B., assignor.)

B. G. Corporation, The, New York, N. Y. Spark plugs. 245,675; Aug. 21; Serial No. 264,798; published June 12, 1928. Class 21.

Bailis Brothers, Mount Vernon, N. Y. Distilled water, table water, and maltless beverages. 245,808; Aug. 21; Serial No. 265,772; published June 12, 1928. Class 45.

Baker Brush Co., Inc., New York, N. Y. Paintbrushes. 245,883; Aug. 21. Class 29.

Banner Electric Company, The, Youngstown, Ohio, assignor to General Electric Company, Schenectady, N. Y. Incandescent electric lamps. 70,124; renewed Aug. 4, 1928.

Barbasol Company, The, Indianapolis, Ind. Pastelike preparation. 245,858; Aug. 21; Serial No. 262,347; published June 5, 1928. Class 4.

Barclay, Kenneth C., Spokane, Wash. Mounted and unmounted photographs, etc. 245,763; Aug. 21; Serial No. 264,631; published June 5, 1928. Class 38.

Baseball World, Inc., The, Chicago, Ill. Periodical. 245,816; Aug. 21; Serial No. 265,514; published June 12, 1928. Class 38.

Bastian Manufacturing Company, Grand Island, Nebr. Baby chairs. 245,716; Aug. 21; Serial No. 265,133; published June 5, 1928. Class 32.

Batesville Bottling Co. (See Carpenter, W. R.)

Beatrice Creamery Company. (See Fox River Butter Company, The, assignor.)

Bemis Bro. Bag Company, St. Louis, Mo. Paper sacks. 245,747; Aug. 21; Serial No. 264,667; published June 12, 1928. Class 2.

Berglas, M. P., Manufacturing Co. Inc., Brooklyn, N. Y. Toilet seats. 245,611; Aug. 21; Serial No. 254,739; published June 5, 1928. Class 13.

Biltmore Food Products Co., Inc., New York, N. Y. Canned frankfurters with sauerkraut. 245,634; Aug. 21; Serial No. 258,854; published June 5, 1928. Class 46.

Birresborner Mineralbrunnen H. Löhr & Eylert, assignor to Birresborner Mineralbrunnen Aktiengesellschaft, Dusseldorf, Germany. Natural mineral waters. 69,944; renewed July 21, 1928.

Bishard Brothers, Des Moines, Iowa. Newspapers (weekly). 245,802; Aug. 21; Serial No. 265,883; published June 12, 1928. Class 38.

Bjelland, Chr., & Co. A/S, Stavanger, Norway. Canned sardines. 245,842; Aug. 21; Serial No. 263,125; published June 12, 1928. Class 46.

Blom, Nora H., Los Angeles, Calif. Weekly publication. 245,605; Aug. 21; Serial No. 256,559; published June 5, 1928. Class 38.

Blum, Jean, doing business as Blum's Advertising Agency, San Francisco, Calif. Monthly publication. 245,664; Aug. 21; Serial No. 264,959; published June 5, 1928. Class 38.

Blutergess, Paris, France. Sifting and screening apparatus. 245,805; Aug. 21; Serial No. 265,828; published June 12, 1928. Class 23.

Bond, Charles, Company, Philadelphia, Pa. Gears. 245,818; Aug. 21; Serial No. 265,464; published June 12, 1928. Class 23.

Bonnell, Harry L., doing business as Popular Songs Publishing Company, Los Angeles, Calif. Magazine of popular songs, published monthly. 245,658; Aug. 21; Serial No. 263,531; published June 5, 1928. Class 38.

Boott Mills, Lowell, Mass. Turkish towels. 245,674; Aug. 21; Serial No. 264,802; published June 12, 1928. Class 42.

Borden Company, The. (See New York Condensed Milk Company, assignor.)

Borden's Condensed Milk Company, Jersey City, N. J., and New York, N. Y., now by change of name to The Borden Company, New York, N. Y. Caramel paste. 72,078; renewed Dec. 29, 1928.

Borger, Samuel, New York, N. Y. Trade publication. 245,715; Aug. 21; Serial No. 265,136; published June 12, 1928. Class 38.

Borgfeldt, Geo., & Co., New York, N. Y. Phonographs and parts thereof. 245,729; Aug. 21; Serial No. 264,347; published June 12, 1928. Class 36.

Brecht Candy Co., also doing business as Brecht's, Denver, Colo. Candy. 245,710; Aug. 21; Serial No. 265,192; published June 5, 1928. Class 46.

Brewster, Ruby T. (See Parfums Edouardo, assignor.)

Bristol & Willett, New York, N. Y. Publication issued monthly. 245,682; Aug. 21; Serial No. 265,090; published June 5, 1928. Class 38.

Bristol & Willett, New York, N. Y. Publication. 245,800; Aug. 21; Serial No. 265,945; published June 12, 1928. Class 38.

Brittains, Limited, Cheddleton, near Leek, England. Metal-coated paper. 245,843; Aug. 21; Serial No. 263,123; published June 5, 1928. Class 21.

Bromund, E. A., to E. A. Bromund Company, New York, N. Y., successor. Beeswax. 71,618; renewed Dec. 8, 1928.

Brown, Bessie, Philadelphia, Pa. Canned pork and beans. 245,607; Aug. 21; Serial No. 256,072; published June 5, 1928. Class 46.

Buckeye Electric Company, The, Cleveland, Ohio, assignor to General Electric Company, Schenectady, N. Y. Incandescent electric lamps. 70,043; renewed July 28, 1928.

Bulova Watch Company, Inc., New York, N. Y. Protectors of celluloid. 245,887; Aug. 21. Class 33.

Burnham-Munger Mfg. Co., The, assignor to Burnham-Munger-Root D. G. Co., Kansas City, Mo. Overalls, jumpers, shirts, and pants. 71,279; renewed Nov. 17, 1928.

Butterfield, Fred, & Co. Inc., New York, N. Y. Piece goods of linen, cotton, wool, etc. 245,735; Aug. 21; Serial No. 264,279; published June 5, 1928. Class 42.

Byron Weston Company, Dalton, Mass. Writing paper. 245,880; Aug. 21. Class 37.

California Jewelry & Novelty Co., Chicago, Ill. Finger rings. 245,840; Aug. 21; Serial No. 263,255; published June 12, 1928. Class 28.

Cameron, William J., doing business as Cameron's Surgical Specialty Co. (Not Inc.), Chicago, Ill. Ophthalmoscopes, retinoscopes, etc. 245,854; Aug. 21; Serial No. 262,798; published June 12, 1928. Class 26.

Campbell, Joseph, Company, assignor to Campbell Soup Company, Camden, N. J. Pork and beans. 69,788; renewed July 7, 1928.

Cannon, Ralph, Chicago, Ill. Sporting-column head. 245,704; Aug. 21; Serial No. 265,256; published June 5, 1928. Class 38.

Carborundum Company, The, Niagara Falls, N. Y. Abrasive articles and compounds. 245,860; Aug. 21; Serial No. 248,754; published June 5, 1928. Class 4.

Carnrick, G. W., Co., New York, N. Y. House organ. 245,811; Aug. 21; Serial No. 265,616; published June 12, 1928. Class 38.

Carpenter-Goldman Laboratories, Inc., Long Island City, N. Y. Motion-picture films. 245,728; Aug. 21; Serial No. 264,351; published June 5, 1928. Class 26.

Carpenter, W. R., doing business as Batesville Bottling Co., Batesville, Ark. Beverages. 245,657; Aug. 21; Serial No. 263,585; published June 12, 1928. Class 45.

Carson Pirie Scott & Co., assignor to Carson Pirie Scott & Co., Chicago, Ill. Bed comforts. 69,877; renewed July 14, 1928.

Carter's Ink Company, The, Boston, Mass., and New York, N. Y., to The Carter's Ink Company, Cambridge, Mass. Magazine. 72,079; renewed Dec. 29, 1928.

Cascade Water Company, Los Angeles, Calif. Drinking water. 245,669; Aug. 21; Serial No. 264,870; published June 12, 1928. Class 45.

Case, J. I., Threshing Machine Company, Racine, Wis. Grain drills and harrows. 245,640; Aug. 21; Serial No. 264,011; published June 12, 1928. Class 23.

Casse, Alfred J., & Co. Inc., New York, N. Y. Gold and platinum enameled and jeweled novelties and diamond jewelry. 245,797; Aug. 21; Serial No. 261,485; published June 5, 1928. Class 28.

Cattaraugus Cutlery Company, Little Valley, N. Y. Cutlery. 72,060; renewed Dec. 29, 1928.

Celanese Corporation of America, New York, N. Y. Yarns or threads. 245,659–63; Aug. 21; Serial Nos. 264,963–7; published June 5, 1928. Class 43.

Chattanooga Plow Co., Chattanooga, Tenn., assignor to International Harvester Company, Chicago, Ill. Plows and parts of plows. 69,742; renewed June 30, 1928.

Chesapeake & Ohio Coal & Coke Company, The, Thurmond, W. Va., and New York, N. Y., assignor to Stonega Coke and Coal Company, Philadelphia, Pa. Semibituminous coal. 71,706; renewed Dec. 15, 1928.

Chula Vista Citrus Association, Chula Vista, Calif. Oranges, lemons, and grapefruit. 245,693; Aug. 21; Serial No. 263,461; published June 12, 1928. Class 46.

Clemensen, Peter C., doing business as Copenhagen Chemical Company, Chicago, Ill. Remedy for dandruff and itching scalp. 71,707; renewed Dec. 15, 1928.

Cleveland Heater Company, The, Cleveland, Ohio. Gas and oil burning central heating systems, etc. 245,878; Aug. 21. Class 34.

Clow, James B., & Sons, Chicago, Ill. Cast-iron pipe. 245,709; Aug. 21; Serial No. 265,196; published June 5, 1928. Class 13.

Cluett, John P., Troy, N. Y. Newspaper articles. 245,804; Aug. 21; Serial No. 265,829; published June 12, 1928. Class 38.

Conlon Corporation, Cicero, Ill. Electric clothes washer. 245,645; Aug. 21; Serial No. 263,862; published June 5, 1928. Class 24.

Convenience Products Corporation, Chicago, Ill. Telephone-receiver supports. 245,852; Aug. 21; Serial No. 262,899; published June 5, 1928. Class 21.

Copenhagen Chemical Company. (See Clemensen, Peter C.)

Cornish Eureka Gold Size Co., The, to Thomas H. Cornish, doing business as The Cornish Eureka Gold Size Co., San Francisco, Calif. Gold size. 71,777; renewed Dec. 15, 1928.

Corral Wodiska y Ca., Tampa, Fla. Cigars. 245,639; Aug. 21; Serial No. 264,019; published June 5, 1928. Class 17.

Corral Wodiska y Ca., Tampa, Fla. Cigars. 245,778; Aug. 21; Serial No. 264,020; published June 5, 1928. Class 17.

Cosgrove, J. E., Fruit Co., Phoenix, Ariz. Fresh vegetables, cantaloupes, and fruits. 245,792; Aug. 21; Serial No. 261,944; published June 5, 1928. Class 46.

Crary, Charles A., Cincinnati, Ohio. Toilet soap. 245,727; Aug. 21; Serial No. 264,359; published June 12, 1928. Class 4.

Cravenette Company, The, Bradford, England, assignor to The Cravenette Company, U. S. A., Hoboken, N. J. Vehicle dust cloths and covers and laprobes. 71,957; renewed Dec. 22, 1928.

Cupie Extract Company, Paris, Tenn. Beverages and sirups, etc., for making the same. 245,734; Aug. 21; Serial No. 264,291; published June 5, 1928. Class 45.

Curtis & Cameron, to Curtis & Cameron, Inc., Boston, Mass., successor. Art photographs. 31,706; renewed June 21, 1928.

Curtis Publishing Company, The, Philadelphia, Pa. Magazine published monthly. 245,644; Aug. 21; Serial No. 263,863; published June 5, 1928. Class 38.

Curtiss Aeroplane and Motor Company, Inc., Garden City and Buffalo, N. Y. Internal-combustion motors. 245,810; Aug. 21; Serial No. 265,624; published June 12, 1928. Class 23.

Davidovitz, David, to Diamond Shoe Co., New York, N. Y., successor. Women's leather shoes. 71,994; renewed Dec. 29, 1928.

Dayton Spice Mills Company, The, Dayton, Ohio. Coffee. 245,784; Aug. 21; Serial No. 262,213; published June 12, 1928. Class 46.

Del Peso, C., y Compañia, Habana, Cuba. Cigars, cigarettes, and cut tobacco. 245,857; Aug. 21; Serial No. 262,600; published June 12, 1928. Class 17.

Dell Publishing Company, New York, N. Y. Magazine. 245,642; Aug. 21; Serial No. 263,935; published June 12, 1928. Class 38.

Delta Manufacturing Company, Milwaukee, Wis. Lathes, saws, drills, etc. 245,603; Aug. 21; Serial No. 256,863; published June 5, 1928. Class 23.

Deutsche Gasglühlicht Aktiengesellschaft (Auergesellschaft), assignor to Osham G. m. b. H. Kommanditgesellschaft, Berlin, Germany. Electric incandescent and arc-lamps. 70,573; renewed Sept. 15, 1928.

Detroit Oak Belting Company, Detroit, Mich. Leather belting. 72,038; renewed Dec. 29, 1928.

Diamond Shoe Co. (See Davidovitz, David.)

Digit Manufacturing Company, The, New York, N. Y. Portable electric lamps. 245,650; Aug. 21; Serial No. 263,754; published June 5, 1928. Class 21.

Dolle, Fred, Inc., Chicago, Ill. Razors. 245,746; Aug. 21; Serial No. 264,674; published June 5, 1928. Class 23.

Dollfus-Mieg & Cie. Société Anonyme, Mulhouse, Germany, to Dollfus-Mieg & Cie. Société Anonyme, Mulhouse, (Haut-Rhin), France. Yarns and threads. 70,827; renewed Oct. 6, 1928.

Dollfus-Mieg & Cie. Société Anonyme, Mulhouse, Germany, (Haut-Rhin), France. Fancy trimmings and braids. 71,937–9; renewed Dec. 22, 1928.

Dominion Electrical Mfg. Co., Minneapolis, Minn. Electric waffle irons, doughnut bakers, etc. 245,622; Aug. 27; Serial No. 259,946; published June 12, 1928. Class 21.

Doxsee Company, Inc., The, Brooklyn, N. Y. Canned clam broth. 245,835; Aug. 21; Serial No. 260,676; published June 12, 1928. Class 46.

Drew Line Company, Fort Atkinson, Wis. Carriers for barns and stables. 245,773; Aug. 21; Serial No. 264,087; published June 5, 1928. Class 23.

Drew Line Company, Fort Atkinson, Wis. Barn and stable equipment and equipment for chicken houses, etc. 245,774; Aug. 21; Serial No. 264,086; published June 5, 1928. Class 2.

Drew Line Company, Fort Atkinson, Wis. Gravity-operated ventilating apparatus. 245,775; Aug. 21; Serial No. 264,085; published June 12, 1928. Class 34.

Durwyllan Company, Inc., Paterson, N. J. Brake-band linings. 245,673; Aug. 21; Serial No. 264,812; published June 5, 1928. Class 35.

Eastern Cotton Oil Company, Norfolk, Va. Fertilizer. 245,756; Aug. 21; Serial No. 264,569; published June 12, 1928. Class 10.

Eastern Tool & Mfg. Co., Bloomfield, N. J. Hand brakes. 245,772; Aug. 21; Serial No. 264,090; published June 5, 1928. Class 23.

Elgin National Watch Company, Chicago, Ill. Watches and watchcases. 245,726; Aug. 21; Serial No. 264,367; published June 12, 1928. Class 27.

Elliott Knitting Mills, Inc., Hickory, N. C. Hosiery. 245,847; Aug. 21; Serial No. 263,077; published May 1, 1928. Class 39.

Elsworth, J. & J. W., Co., New York, N. Y. Shellfish. 245,606; Aug. 21; Serial No. 256,106; published June 5, 1928. Class 46.

Enterprise Manufacturing Company, The, Akron, Ohio. Fishing tackle. 71,940; renewed Dec. 22, 1928.

Enterprise Manufacturing Company, The, Akron, Ohio. Harness parts. 72,243; renewed Jan. 12, 1928.

Eola Coffee Company, Orlando, Fla. Coffee. 245,656; Aug. 21; Serial No. 263,595; published June 5, 1928. Class 46.

F B O Productions Inc., New York, N. Y. Motion-picture films. 245,819; Aug. 21; Serial No. 260,815; published June 12, 1928. Class 26.

Fanspeaker Radio Co., New York, N. Y. Radio loud speakers. 245,733; Aug. 21; Serial No. 264,293; published June 12, 1928. Class 21.

Federal Gauge Company, The, Chicago, Ill. Electric controls for electric switches, temperature-operated electric switches, etc. 245,654–5; Aug. 21; Serial Nos. 263,596–7; published June 5, 1928. Class 21.

Fendrich, H., assignor to H. Fendrich Incorporated, Evansville, Ind. Cigars. 72,270–4; renewed Jan. 12, 1929.

Finkenstadt & Kaufmann, Inc., Long Island City, N. Y. Beverages and sirups, and extracts, and concentrates for making the same. 245,856; Aug. 21; Serial No. 262,651; published June 5, 1928. Class 45.

Flaven, Arthur J., Los Angeles, Calif. Serially-issued motion-picture films. 245,768; Aug. 21; Serial No. 264,159; published June 12, 1928. Class 26.

Forbes, B. C., Publishing Company, New York, N. Y. Semimonthly magazine. 245,615; Aug. 21; Serial No. 253,992; published June 5, 1928. Class 38.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 245,824; Aug. 21; Serial No. 248,169; published June 12, 1928. Class 42.

Fort Worth Well Machinery & Supply Company, Fort Worth, Tex. Well-drilling machines. 245,877; Aug. 21. Class 23.

Foster, C. B., Packing Co. Inc., also doing business as Latimer Packing Co., Biloxi, Miss. Canned shrimp and oysters. 245,758; Aug. 21; Serial No. 264,513; published June 5, 1928. Class 46.

Fox River Butter Company, The, Aurora, assignor, by mesne assignments, to Beatrice Creamery Company, Chicago, Ill. Eggs. 72,088; renewed Jan. 5, 1929.

Frackman Bros., New York, N. Y. Finger and ear rings, bracelets, etc. 245,648; Aug. 21; Serial No. 263,817; published June 12, 1928. Class 28.

Frankart, Inc., New York, N. Y. Books ends, smoking stands. 245,787; Aug. 21; Serial No. 262,165; published June 12, 1928. Class 32.

Friday Canning Corporation, New Richmond, Wis. Canned vegetables. 245,836; Aug. 21; Serial No. 260,818; published June 12, 1928. Class 46.

Fuller, W. P., & Co., San Francisco, Calif. Mirrors. 245,686; Aug. 21; Serial No. 265,040; published June 5, 1928. Class 32.

Fuller, W. P., & Co., San Francisco, Calif. Mirrors. 245,687; Aug. 21; Serial No. 265,039; published June 5, 1928. Class 32.

Galloways Limited, Manchester, England. Air and water heaters. 245,630; Aug. 21; Serial No. 259,280; published June 5, 1928. Class 34.

Gasser Coffee Company, The, by change of name to The Karavan Coffee Company, Toledo, Ohio. Spices. 72,042; renewed Dec. 29, 1928.

General-Direktion der Österr. Tabakregie, Vienna, Austria. Tobaccos, cigars, and cigarettes. 245,626; Aug. 21; Serial No. 259,489; published June 12 ,1928. Class 17.

Gibson Oil Company, Fort Smith, Ark. Lubricating oil. 245,629; Aug. 21; Serial No. 259,283; published June 12, 1928. Class 15.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Inside tire protectors, portable tire and tube repair outfits, etc. 245,817; Aug. 21; Serial No. 265,473; published June 12, 1928. Class 35.

Gearench Manufacturing Company, The. (See Peterson, Joseph A.)

General Electric Company. (See Banner Electric Company, The, assignor.)

General Electric Company. (See Buckeye Electric Company, The, assignor.)

General Electric Company. (See Sunbeam Incandescent Lamp Company, assignor.)

Graham, John H., New York, N. Y. Shock absorbers. 245,601; Aug. 21; Serial No. 257,507; published June 5, 1928. Class 19.

Graham Paper Company, St. Louis, Mo. Wrapping paper. 245,745; Aug. 21; Serial No. 264,680; published June 5, 1928. Class 37.

Grant Storage Battery Company, Minneapolis, Minn. Storage batteries. 245,719; Aug. 21; Serial No. 264,428; published June 12, 1928. Class 21.

Grasselli Chemical Company, The, Cleveland, Ohio. Fertilizers. 245,647; Aug. 21; Serial No. 263,820; published June 5, 1928. Class 10.

Graton & Knight Company, Worcester, Mass. Belts and belting. 245,791; Aug. 21; Serial No. 261,958; published June 5, 1928. Class 35.

Gratz, Louis, Sons, Inc., New York, N. Y. Jewelry. 245,771; Aug. 21; Serial No. 264,096; published June 12, 1928. Class 28.

Greive, Edmund J., doing business as Greive Mfg. Co., Los Angeles, Calif. Burial caskets. 245,623; Aug. 21; Serial No. 259,729; published June 5, 1928. Class 2.

Gretsch, Fred., Mfg. Co., The, New York, N. Y. Cymbals. 245,846; Aug. 21; Serial No. 263,082; published June 12, 1928. Class 36.

Gutmann & Company, Chicago, Ill. Tanned leather. 71,506; renewed Dec. 1, 1928.

Hale-Halsell Company, McAlester, Okla. Coffee. 245,708; Aug. 21; Serial No. 265,211; published June 5, 1928. Class 46.

Hamann, Edward W., Minneapolis, Minn. Ginger ale. 245,691; Aug. 21; Serial No. 264,979; published June 12, 1928. Class 45.

Hanover Cordage Company, Hanover, Pa. Tube rope, wall-paper twine, jute wrapping twine, and jute miller's twine. 245,617; Aug. 21; Serial No. 253,753; published June 5, 1928. Class 7.

Hardman, Peck & Co., New York, N. Y. Pianos and player pianos. 245,698; Aug. 21; Serial No. 263,318; published June 12, 1928. Class 36.

Hardwick & Magee Company, Philadelphia, Pa. Textile carpets and rugs. 245,770; Aug. 21; Serial No. 264,099; published June 5, 1928. Class 42.

Harrah & Stewart Mfg. Co., assignor to Harrah & Stewart Broom Manufacturing Co., Des Moines, Iowa. Brooms. 69,925; renewed July 21, 1928.

Harrell, C. E., doing business as C. E. Harrell Co., Kansas City, Mo. Lubricating oil. 245,653; Aug. 21; Serial No. 263,604; published June 5, 1928. Class 15.

Harting, Mrs. G. L., Inc., Philadelphia, Pa. Fruit jellies and preserves. 245,827; Aug. 21; Serial No. 213,377; published Feb. 7, 1928. Class 46.

Harton, J. E., San Francisco, Calif. Grain bags. 245,694–5; Aug. 21; Serial Nos. 263,393–4; published June 5, 1928. Class 2.

Harton, J. E., San Francisco, Calif. Grain bags. 245,697; Aug. 21; Serial No. 263,319; published June 5, 1928. Class 2.

Haskell Silk Company, The, Westbrook, Me., and New York, N. Y. Woven, knitted, and felted fabrics composed of silk or of silk and rayon yarns, etc. 245,681; Aug. 21; Serial No. 265,105; published June 5, 1928. Class 42.

Haughton, Thomas A., Birmingham, Ala. Medicine. 245,779; Aug. 21; Serial No. 265,724; published June 12, 1928. Class 6.

Hawkeye Clock Co., Muscatine, Iowa. Clocks. 245,636; Aug. 21; Serial No. 258,613; published June 12, 1928. Class 27.

Herold, Don, Long Beach, Calif. Comic cartoons. 245,638; Aug. 21; Serial No. 254,454; published June 12, 1928 Class 38.

Herold, Don, Pasadena, Calif. Comic cartoons. 245,815; Aug. 21; Serial No. 265,541; published June 12, 1928. Class 38.

Hess Manufacturing Company, Philadelphia, Pa. Mattresses. 245,783; Aug. 21; Serial No. 262,306; published June 5, 1928. Class 32.

Hoague-Sprague Corporation, Lynn, Mass. Pasteboard boxes or cartons. 245,862; Aug. 21; Serial No. 251,668; published June 12, 1928. Class 2.

Hoffman, Daniel H., to Southern Coffee Mills, Limited, New Orleans, La., successor. Roasted and ground coffee. 66,926; renewed Jan. 7, 1928. Class 46.

Hohberger, John T., doing business as Hohberger Manufacturing Co., (Not Inc.), Chicago, Ill. Candy. 245,761; Aug. 21; Serial No. 264,234; published June 5, 1928. Class 46.

Home Chocolate Shop. (See Warner, J. Wilbur.)

Hudson Brass Works, Inc., Brooklyn, N. Y. Plated ware used in connection with plumbers' work. 245,599; Aug. 21; Serial No. 258,578; published June 12, 1928. Class 13.

Hunter Arms Co., The, to The Hunter Arms Co. Inc., Fulton, N. Y., successor. Gun barrels. 32,348–9; renewed Jan. 10, 1929.

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main and Berlin, Germany. Sensitized photographic papers. 245,872; Aug. 21; Serial No. 260,991; published June 12, 1928. Class 26.

Independent Products Company, Davenport, Iowa. Beverages. 245,767; Aug. 21; Serial No. 264,166; published June 5, 1928. Class 48.

International Harvester Company. (See Chattanooga Plow Co., assignor.)

International Motor Company, New York, N. Y. Couplings for power-transmission shafting. 245,888; Aug. 21. Class 23.

International Motor Company, New York, N. Y. Motor busses and trucks. 245,889; Aug. 21. Class 19.

Italian Food Products Company, Inc., Long Beach, Calif. Canned fish. 245,690; Aug. 21; Serial No. 264,990; published June 5, 1928. Class 46.

Italian Roasted Coffee Mfg. Co. (See Ruffino, Frederick C.)

Jaden, Fred I., doing business as F. Jaden Manufacturing Co., Hastings, Nebr. Lawn sprinklers. 245,749; Aug. 21; Serial No. 264,518; published June 12, 1928. Class 13.

Jeffrey Manufacturing Co., The, Columbus, Ohio. Conveying machinery andp arts thereof. 245,869–70; Aug. 21; Serial Nos. 246,907–8; published June 5, 1928. Class 23.

Jewell Electrical Instrument Co., Chicago, Ill. Electrical measuring instruments. 245,641; Aug. 21; Serial No. 263,948; published June 12, 1928. Class 26.

Jewish Trades Publishing Co., Inc., The, New York, N. Y. Daily publication. 245,801; Aug. 21; Serial No. 265,908; published June 12, 1928. Class 38.

Joachim, Harry J., St. Louis, Mo. Straw-matting coverings for vehicle seats. 245,766; Aug. 21; Serial No. 264,168; published June 12, 1928. Class 19.

Karavan Coffee Company, The. (See Gasser Coffee Company, The.)

Kearney & Trecker, West Allis, Wis. Milling machine. 245,874; Aug. 21. Class 23.

Kearney & Trecker, West Allis, Wis. Milling machines. 245,875; Aug. 21. Class 23.

Kelvinator Corporation. (See Northern Refrigerator Company, The, assignor.)

Kernit Incinerator Company, Milwaukee, Wis. Incinerators. 245,627; Aug. 21; Serial No. 259,411; published June 5, 1928. Class 34.

King Manufacturing Corporation, Buffalo, N. Y. Radio receiving sets. 245,864; Aug. 21; Serial No. 245,793; published June 5, 1928. Class 21.

Klentz, Clarence C., doing business as Klentz Manufacturing Company, (Not Inc.), Chicago, Ill. Systems of burglar and fire alarms. 245,765; Aug. 21; Serial No. 264,169; published June 12, 1928. Class 21.

Kraysler Bros., New York, N. Y. Articles of jewelry. 245,725; Aug. 21; Serial No. 264,375; published June 5, 1928. Class 28.

Kuppenheimer, B., & Co. Inc., Chicago, Ill. Semimonthly publication. 245,652; Aug. 21; Serial No. 263,657; published June 5, 1928. Class 38.

Lakeside Ventilating Co., assignor to Lakeside Company, Hermansville, Mich. Ventilating apparatus. 245,780; Aug. 21; Serial No. 262,468; published June 5, 1928. Class 34.

Lakeside Ventilating Co., assignor to Lakeside Company, Hermansville, Mich. Ventilating apparatus. 245,781; Aug. 21; Serial No. 262,467; published June 12, 1928. Class 34.

Landis & Gyr A.-G., Zug, Switzerland. Electrical measuring instruments. 245,782; Aug. 21; Serial No. 262,407; published June 12, 1928. Class 26.

Latimer Packing Co. (See Foster, C. B., Packing Co. Inc.)

Lawyers Co-Operative Publishing Company, The, Rochester, N. Y. Series of New York law digest and quarterly supplements. 245,807; Aug. 21; Serial No. 265,798; published June 12, 1928. Class 38.

Lazier, J. F., Manufacturing Co., Inc., St. Louis, Mo. Flavoring extracts and concentrated syrups. 245,850–1; Aug. 21; Serial Nos. 262,920–1; published June 5, 1928. Class 45.

Lehigh Fabric Corporation, New York, N. Y. Knitted fabric. 245,799; Aug. 21; Serial No. 261,267; published June 12, 1928. Class 42.

Lehigh Portland Cement Company, Ormrod and Allentown, to Lehigh Portland Cement Company, Allentown, Pa. Portland cement. 32,183; renewed Nov. 22, 1928.

Leland, Benjamin, & Company. (See Ansehl, Benjamin.)

Lerman, Jacob, New York, N. Y. Jewerly. 245,724; Aug. 21; Serial No. 264,376; published June 5, 1928. Class 28.

Levene, Albert H., doing business as Steel Utilities Company, Jersey City, N. J. Metallic bins and receptacles. 245,764; Aug. 21; Serial No. 264,172; published June 12, 1928. Class 2.

Lindy-Pop Products Co. (See Ruggieri, Henry A.)

Lines Brothers Limited, London, England. Perambulators. 245,737; Aug. 21; Serial No. 264,763; published June 5, 1928. Class 19.

Liviti Water Corporation, Pasadena, Calif. Ginger ale. 245,777; Aug. 21; Serial No. 264,032; published June 5, 1928. Class 45.

Lockwood, Adams and Company, assignor to Lockwood Brackett Co., Boston, Mass. Soaps. 72,373; renewed Jan. 19, 1929.

Lucky Publishing Corporation, New York, N. Y. Biweekly fiction magazine. 245,680; Aug. 21; Serial No. 265,111; published June 5, 1928. Class 38.

MacDougal, Alice Foote, & Sons, Inc., New York, N. Y. House organ issued from time to time. 245,707; Aug. 21; Serial No. 265,223; published June 5, 1928. Class 38.

Maescher & Co., Cincinnati, Ohio. Bacon. 245,628; Aug. 21; Serial No. 259,340; published June 5, 1928. Class 46.

Manitowoc Products Company, Manitowoc, Wis. Malt beverage. 245,738; Aug. 21; Serial No. 264,728; published June 12, 1928. Class 48.

Marsh, George W., St. Louis, Mo. Soaps. 245,703; Aug. 21; Serial No. 265,280; published June 12, 1928. Class 4.

Marshall-Wells Hardware Co., now by change of name to Marshall-Wells Company, Duluth, Minn. Abrasive materials. 71,386; renewed Nov. 24, 1928.

Marshall-Wells Hardware Co., now by change of name to Marshall-Wells Company, Duluth, Minn. Cutlery and tools. 71,387; renewed Nov. 24, 1928.

Marshall-Wells Hardware Co., now by change of name to Marshall-Wells Company, Duluth, Minn. Squares, wing dividers, and levels. 71,388; renewed Nov. 24, 1928.

Marshall-Wells Hardware Co., now by change of name to Marshall-Wells Company, Duluth, Minn. Metal articles. 71,389; renewed Nov. 24, 1928.

Marshall-Wells Hardware Co., now by change of name to Marshall-Wells Company, Duluth, Minn. Sporting goods. 71,390; renewed Nov. 24, 1928.

Marshall-Wells Hardware Co., now by change of name to Marshall-Wells Company, Duluth, Minn. Silver-plated knives, forks, and spoons. 71,473; renewed Nov. 24, 1928.

Marshall-Wells Hardware Co., now by change of name to Marshall-Wells Company, Duluth, Minn. Duck tents, awnings, paulins, and felt weather strips. 71,509; renewed Dec. 1, 1928.

Marshall-Wells Hardware Co., now by change of name to Marshall-Wells Company, Duluth, Minn. Babbit metal, sheet steel, tin plate, and silver solder. 71,548; renewed Dec. 1, 1928.

Marshall-Wells Hardware Co., now by change of name to Marshall-Wells Company, Duluth, Minn. Horse equipment. 71,595; renewed Dec. 1, 1928.

Masur & Herman, New York, N. Y. Articles of jewelry for personal wear, not including watches. 245,723; Aug. 21; Serial No. 264,378; published June 5, 1928. Class 28.

McClintock, O. B., Co., Minneapolis, Minn. Vault ventilators. 245,885; Aug. 21. Class 34.

McCurdy, Alexander C., doing business as McCurdy Safety Extension Auto Starter Co., Towson, Md. Mechanical auxiliary starter for automobiles. 245,685; Aug. 21; Serial No. 265,051; published June 12, 1928. Class 23.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Shaving soap. 245,706;; Aug. 21; Serial No. 265,228; published June 12, 1928. Class 4.

Menzel & Co., New York, N. Y. Canned Bismark herring, anchovies, etc. 245,651; Aug. 21; Serial No. 263,714; published June 12, 1928. Class 46.

Metcalf, Theodore, Co., Boston, Mass. Medicinal tonic preparations. 69,904; renewed July 14, 1928.

Metcalf, Theodore, Co., Boston, Mass. Certain chemical preparations. 69,942; renewed July 21, 1928.

Meyer, R. A. & M. T., New York, N. Y. Strainers. 245,616; Aug. 21; Serial No. 253,763; published June 5, 1928. Class 23.

Michelsen & Grossman, New York, N. Y. Jewelry. 245,621; Aug. 21; Serial No. 259,247; published June 5, 1928. Class 28.

Miller Rubber Company, The, Akron, Ohio. Pneumatic tires and inner tubes, etc. 245,855; Aug. 21; Serial No. 262,670; published June 5, 1928. Class 35.

Miller, Simon, & Co., Newark, N. J. Jewelry. 245,684; Aug. 21; Serial No. 265,057; published June 12, 1928. Class 28.

Minor, John C., jr., New York, N. Y. to John C. Minor, New Canaan, Conn. Artificial mineral salts. 32,087; renewed Oct. 25, 1928.

Minor, Vernon A., Columbus, Ohio. Automobile top dressing, etc. 245,696; Aug. 21; Serial No. 263,332; published June 12, 1928. Class 4.

Mohawk Condensed Milk Co., Rochester and New York, N. Y. Condensed milk. 71,531; renewed Dec. 1, 1928.

Mora, Antonio, doing business as More Mora Company, Johnstown, Pa. Beverages, syrups, extracts, and concentrates for making the same. 245,608; Aug. 21; Serial No. 255,817; published June 12, 1928. Class 45.

More Mora Company. (See Mora, Antonio.)

Morgan-Gardner Electric Company, Harvey, Ill. Vehicles or cars. 245,865; Aug. 21; Serial No. 245,743; published June 12, 1928. Class 21.

Mutual Bottling Works, Chicago, Ill. Beverages. 245,679; Aug. 21; Serial No. 265,114; published June 5, 1928. Class 45.

Mutual Bottling Works, Chicago, Ill. Maltless beverages. 245,718; Aug. 21; Serial No. 265,115; published June 5, 1928. Class 45.

N. V. Nederlandsche Kunstzijdefabriek, Arnhem, Netherlands. Ribbons, materials, fabrics, knitted goods, etc. 245,612; Aug. 21; Serial No. 254,507; published June 5, 1928. Class 42.

Napier Company, The, New Haven, Conn. Pyrophoric pocket lighters. 245,879; Aug. 21. Class 34.

Nehls & Hubener, Fresno and Armona, Calif. Fresh deciduous fruits, etc. 245,689; Aug. 21; Serial No. 264,998; published June 5, 1928. Class 46.

Nelson, Thomas, & Sons, New York, N. Y. Loose-leaf encyclopedias. 71,950; renewed Dec. 22, 1928.

Newton Optical Company, Indianapolis, Ind. Ophthalmic lenses. 245,714; Aug. 21; Serial No. 265,162; published June 5, 1928. Class 26.

New York Condensed Milk Company, assignor to The Borden Company, New York, N. Y. Condensed milk. 32,258; renewed Dec. 20, 1928.

Northern Refrigerator Company, The, Grand Rapids, Mich., assignor to Kelvinator Corporation, Detroit, Mich. Refrigerators. 71,948; renewed Dec. 22, 1928.

North Wayne Tool Company, Oakland, Me. Axes, scythes, knives, etc. 245,649; Aug. 21; Serial No. 263,781; published June 5, 1928. Class 23.

Nu-Heat Company. (See Zornes, Roy C.)

Nunnally Company, The, Atlanta, Ga., and Birmingham, Ala., to The Nunnally Company, Atlanta, Ga. Candy. 72,383; renewed Jan. 19, 1929.

Opalite Tile Co., The, Monaca, assignor to Herman Stratman, doing business as Opalite Tile Company, Pittsburgh, Pa. Glassware. 70,706; renewed Sept. 29, 1928.

Openhym, Wm., & Sons, New York, N. Y. Pile fabrics. 245,803; Aug. 21; Serial No. 265,853; published June 12, 1928. Class 42.

Orr Bros., Clay Center, Nebr. Wheat flour. 71,791; renewed Dec. 15, 1928.

Osram G. m. b. H. Kommanditgesellschaft. (See Deutsche Gasglühlicht Aktiengesellschaft (Auergesellschaft), assignor.)

Oxo Limited, London, England. Prepared or preserved meats in tins or jars. 245,830; Aug. 21; Serial No. 246,429; published June 12, 1928. Class 46.

Pacific Extract Company of Illinois, Inc., Chicago, Ill. Ginger ale. 245,602; Aug. 21; Serial No. 257,304; published June 12, 1928. Class 45.

Palmer, I. E., Company, The, Middletown, Conn. Open-mesh fabrics. 70,104; renewed July 28, 1928.

Pantone Processes Limited, London, England. Printing inks. 245,744; Aug. 21; Serial No. 264,477; published June 5, 1928. Class 11.

Pantone Processes Limited, London, England. Printing inks. 245,757; Aug. 21; Serial No. 264,474; published June 5, 1928. Class 11.

Papademetrius, Demetrius, New Bedford, Mass. Bedspreads, bureau scarfs, doilies, etc. 245,604; Aug. 21; Serial No. 256,650; published June 12, 1928. Class 42.

Parfums Edouardo, a Corporation, assignor to Ruby T. Brewster, New York, N. Y. Vanity case. 245,624; Aug. 21; Serial No. 259,693; published June 12, 1928. Class 2.

Pels, Walter, New York, N. Y. Wedding rings. 245,672; Aug. 21; Serial No. 264,841; published June 12, 1928. Class 28.

Pennant Pearl Button Company. (See Vienna Pearl Button Manufacturing Company, The, assignor.)

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Ironing-board covers and pads. 245,667; Aug. 21; Serial No. 264,908; published June 12, 1928. Class 24.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Ironing-board covers and pads. 245,668; Aug. 21; Serial No. 264,904; published June 12, 1928. Class 24.

Pennino, Oreste, doing business as Pennino Brothers, New York, N. Y. Jewelry for personal use. 245,609; Aug. 21; Serial No. 255,724; published June 12, 1928. Class 28.

Pennino, Oreste, doing business as Pennino Brothers, New York, N. Y. Jewelry. 245,637; Aug. 21; Serial No. 255,723; published June 5, 1928. Class 28.

Peterson, Joseph A., doing business as The Gearench Manufacturing Company, College Station, Tex. Pliers. 245,871; Aug. 21; Serial No. 236,849; published June 12, 1928. Class 23.

Phelps Tire & Rubber Company, Garfield, N. J. Automobile tires and tubes. 245,700; Aug. 21; Serial No. 265,401; published June 5, 1928. Class 35.

Piggly Wiggly Corporation, Memphis, Tenn. Title of a house organ. 245,755; Aug. 21; Serial No. 264,604; published June 5, 1928. Class 38.

Plater-Shadel Corporation, Orange, Calif. Ginger ale. 245,786; Aug. 21; Serial No. 262,177; published June 12, 1928. Class 45.

Plymouth Rock Candy Company, Boston, Mass. Chocolate and chocolate nut candies. 245,845; Aug. 21; Serial No. 263,100; published June 12, 1928. Class 46.

Polysius Corporation, Bethlehem, Pa. Mills and crushers. 245,671; Aug. 21; Serial No. 264,844; published June 12, 1928. Class 23.

Pomona Fruit Growers Exchange, Pomona, Calif. Oranges, lemons, and grapefruit. 245,832; Aug. 21; Serial No. 251,986; published Feb. 14, 1928. Class 46.

Pomona Mills, Inc., Greensboro, N. C. Cotton piece goods. 245,688; Aug. 21; Serial No. 265,012; published June 5, 1928. Class 42.

Popular Radio, Inc., New York, N. Y. Monthly publication. 245,705; Aug. 21; Serial No. 265,236; published June 5, 1928. Class 38.

Popular Songs Publishing Company. (See Bonnell, Harry L.)

Porcer, E. P., Cocoa, Fla. Fresh citrus fruits. 245,677–8; Aug. 21; Serial Nos. 264,774–5; published June 12, 1928. Class 46.

Precision Grinding Wheel Company, Incorporated, Philadelphia, Pa. Abrasive grinding wheels. 245,759; Aug. 21; Serial No. 264,259; published June 5, 1928. Class 4.

Precision Grinding Wheel Company, Incorporated, Philadelphia, Pa. Abrasive grinding wheels. 245,760; Aug. 21; Serial No. 264,258; published June 5, 1928. Class 4.

Priestleys Limited, Bradford, England, assignor to B. Priestley & Co. Inc., New York, N. Y. Worsted, woolen, and silk piece goods and dress goods. 69,527; renewed June 16, 1928. Class 42.

Purchasing Agents' Association of Northern California, Incorporated, San Francisco, Calif. Periodicals issued at regular intervals. 245,683; Aug. 21; Serial No. 265,067; published June 5, 1928. Class 38.

Pyramid Hack Saw Company, Portland, Oreg. Hack-saw blades. 245,743; Aug. 21; Serial No. 264,478; published June 12, 1928. Class 23.

Reach, A. J., Company, Philadelphia, Pa. Baseball score books, etc. 245,752; Aug. 21; Serial No. 264,654; published June 5, 1928. Class 37.

Reichblum, Max, New York, N. Y. Pyrophoric cigar and cigarette lighters. 245,751; Aug. 21; Serial No. 264,657; published June 12, 1928. Class 34.

Reis, Robert, & Co., New York, N. Y. Men's drawers and undershirts. 71,837; renewed Dec. 15, 1928.

Rheinische Türschliesser-Fabrik Boge & Kasten G. m. b. H., Solingen, Germany. Door and window hardware. 245,790; Aug. 21; Serial No. 262,121; published June 5, 1928. Class 13.

Richardson & Robbins Co., Dover, Del. Foods. 71,412; renewed Nov. 24, 1928.

Rite-Hete Appliance, Inc. (See Universal Appliance, Inc.)

Robinson, George, and Sons, Sneinton, England. Fish. 245,834; Aug. 21; Serial No. 249,924; published June 5, 1928. Class 46.

Rochester Paper Co., Rochester, Mich. Blotting paper. 245,795; Aug. 21; Serial No. 261,769; published June 5, 1928. Class 37.

Ruffino, Frederick C., doing business as Italian Roasted Coffee Mfg. Co., Detroit, Mich. Coffee. 245,713; Aug. 21; Serial No. 265,169; published June 12, 1928. Class 46.

Ruggieri, Henry A., doing business ss Lindy-Pop Products Co., New Haven, Conn. Confectionery. 245,873; Aug. 21; Class 46.

Russia Cement Company, Gloucester, Mass. Liquid glue, mucilage, and adhesive paste. 72,172–3; renewed Jan. 5, 1929.

S. & O. Produce Co., Los Angeles, Calif. Fresh citrus fruits. 245,814; Aug. 21; Serial No. 265,574; published June 12, 1928. Class 46.

Sachsenmaier, George, Co., Philadelphia, Pa. Spray guns. 245,793; Aug. 21; Serial No. 261,912; published June 5, 1928. Class 23.

Salinas Valley Canning Co., Salinas, Calif. Canned fruits and vegetables and dried fruits. 245,837; Aug. 21; Serial No. 247,973; published Jan. 10, 1928. Class 46.

Samuels, John, New York, N. Y. Pencil case. 245,610; Aug. 21; Serial No. 255,032; published June 5, 1928. Class 37.

Savill, Thomas, & Sons, to Thomas Savill's Sons, Inc., Philadelphia, Pa., successor. Bibs and valves. 70,225; renewed Aug. 11, 1928.

Schlichte, Werner, doing business as H. W. Schlichte, Westphalia, Germany. Whisky, brandy, and gin. 245,838; Aug. 21; Serial No. 244,474; published June 5, 1928. Class 49.

Schneider, Hyman & Co., New York, N. Y. Jewelry for personal wear, not including watches. 245,722; Aug. 21; Serial No. 264,386; published June 5, 1928. Class 28.

Schulman, Charles H., Brooklyn, N. Y. Polish for silverware, metal and glass. 245,643; Aug. 21; Serial No. 263,898; published June 12, 1928. Class 4.

Schwarzwaelder Company, The, Philadelphia, Pa. Cloths and worsteds for garments. 72,292; renewed Jan. 12, 1929.

Searle & Hereth Company, The, Chicago, Ill., to The Searle & Hereth Company, New York, N. Y. Perfumed lozenges. 32,026; renewed Oct. 4, 1928.

Sears, Roebuck and Co., Chicago, Ill. Carpenters' tools. 245,809; Aug. 21; Serial No. 265,696; published June 12, 1928. Class 23.

Segal, Jacob, & Company, Detroit, Mich. Finger rings. 245,785; Aug. 21; Serial No. 262,182; published June 5, 1928. Class 28.

Service Grocer Company, Inc., Detroit, Mich. Toilet soap, laundry soap, etc. 245,741; Aug. 21; Serial No. 264,703; published June 12, 1928. Class 4.

Service Products Incorporated, Greenville, Pa. Preparation for cleaning and polishing silverware. 245,670; Aug. 21; Serial No. 264,848; published June 12, 1928. Class 4.

Serv-well Sales Corporation, Chicago, Ill. Electrical apparatus. 245,618; Aug. 21; Serial No. 253,518; published June 5, 1928. Class 26.

Sherwood Bros. Inc., Baltimore, Md. Gasoline. 245,841; Aug. 21; Serial No. 263,178; published June 5, 1928. Class 15.

Sierra Club Beverage Co. Inc., Glendale, Calif. Beverages, syrups, extracts, and concentrates for making the same. 245,665; Aug. 21; Serial No. 264,920; published June 12, 1928. Class 45.

Sigman Bros., New York, N. Y. Jewelry for personal wear, not including watches. 245,721; Aug. 21; Serial No. 264,391; published June 5, 1928. Class 28.

Silz Packing Company, Inc., New York, N. Y. Canned clam chowder. 245,740; Aug. 21; Serial No. 264,705; published June 12, 1928. Class 46.

Société Anonyme Union Rubanlere, St. Etienne, France. Silk ribbons. 245,825; Aug. 21; Serial No. 252,799; published June 12, 1928. Class 42.

Solvay & Cie., Brussels, Belgium. Chemicals. 72,031; renewed Dec. 29, 1928.

Sommer, Braverman & Harris, Inc., Newark, N. J. Flexible bracelets. 245,732; Aug. 21; Serial No. 264,330; published June 5, 1928. Class 28.

South Chicago Wholesale Grocery, South Chicago, Ill. Canned fruits, canned vegetables, etc. 245,829; Aug. 21; Serial No. 244,189; published June 5, 1928. Class 46.

Southern Coffee Mills, Limited. (See Hoffman, Daniel H.)

Southern Oregon Sales, Inc., Medford, Oreg. Fresh deciduous fruits and dried fruits. 245,828; Aug. 21; Serial No. 236,344; published Jan. 17, 1928. Class 46.

Southern Spring Bed Company, Atlanta, Ga. Beds, bed springs, and mattresses. 245,632; Aug. 21; Serial No. 258,961; published June 12, 1928. Class 32.

Sowers Manufacturing Company, Buffalo, N. Y. Jacketed kettles. 245,788; Aug. 21; Serial No. 262,130; published June 5, 1928. Class 13.

Sowers Manufacturing Company, Buffalo, N. Y. Retorts, caldrons, tanks, and boilers for heating rubber, etc. 245,789; Aug. 21; Serial No. 262,129; published June 5, 1928. Class 34.

Springer Bros. Inc., Louisville, Ky. Ginger ale. 245,702; Aug. 21; Serial No. 265,302; published June 5, 1928. Class 45.

Standard Auto Products Company. (See Swain, Fred.)

Standard Optical Export Corp., New York, N. Y. Spectacles and goggles. 245,820; Aug. 21; Serial No. 247,498; published June 5, 1928. Class 26.

Standard Textile Products Company, The, New York, N. Y. Oilcloth and oilcloth table covers. 245,798; Aug. 21; Serial No. 261,399; published June 5, 1928. Class 20.

Stebbins, A. H., Little Rock, Ark. Wall paper packed in cartons. 245,646; Aug. 21; Serial No. 263,836; published June 5, 1928. Class 37.

Steel Utilities Company. (See Levene, Albert H.)

Stein & Koslow, New York, N. Y. Jewelry for personal wear, not including watches. 245,849; Aug. 21; Serial No. 263,053; published June 12, 1928. Class 28.

Stern, I., & Co., New York, N. Y. Platinum jewelry and platinum-alloy jewelry. 245,867; Aug. 21; Serial No. 260,921; published June 5, 1928. Class 28.

Stevens Manufacturing Co., Fall River, Mass. Bedspreads made of cotton and of cotton and rayon mixtures. 245,748; Aug. 21; Serial No. 264,539; published June 5, 1928. Class 42.

Stewart-Warner Speedometer Corporation, Chicago, Ill. Polishing compounds. 245,861; Aug. 21; Serial No. 260,660; published June 5, 1928. Class 4.

Stonega Coke and Coal Company. (See Chesapeake & Ohio Coal & Coke Company, The, assignor.)

Stratman, Herman. (See Opalite Tile Co., The, assignor.)

Style Ideas Publishing Company, New York, N. Y. Magazine. 245,739; Aug. 21; Serial No. 264,706; published June 12, 1928. Class 38.

Sunbeam Incandescent Lamp Company, Montclair, N. J., assignor to General Electric Company, Schenectady, N. Y. Incandescent electric lamps. 70,213; renewed Aug. 11, 1928.

Swain, Fred, doing business as Standard Auto Products Company, Ohio, Ill. Lubricating and cutting oils and greases. 245,600; Aug. 21; Serial No. 258,361; published June 5, 1928. Class 15.

Swift and Company, Chicago, Ill. Certain named provisions. 32,420; renewed Jan. 24, 1929.

Swisher, R. D., Mfg. Co., Chicago, Ill. Rubber stamps and rubber type. 245,821; Aug. 21; Serial No. 247,297; published June 5, 1928. Class 37.
Syracuse Washing Corporation, Syracuse, N. Y. Clothes-washing machines and driers and combination of same. 245,666; Aug. 21; Serial No. 264,924; published June 5, 1928. Class 24.
Tenen Bros., New York, N. Y. Jewelry. 245,848; Aug. 21. Serial No. 263,056; published June 12, 1928. Class 28.
Thirty Fourth Street-Midtown Association, Inc., New York, N. Y. Title to a magazine published from time to time. 245,736; Aug. 21; Serial No. 264,265; published June 5, 1928. Class 38.
Thomas, Vincent B., assignor to Harriet Hubbard Ayer, Inc., New York, N. Y. Toilet preparations. 71,265; renewed Nov. 10, 1928.
Trenton Springs Products Company, Trenton, N. J. Spring units. 245,717; Aug. 21; Serial No. 265,127; published June 12, 1928. Class 32.
Threemor Chocolate Corporation, Eatontown, N. J. Chocolate drink and syrups and extracts for making the same. 245,844; Aug. 21; Serial No. 263,107; published June 5, 1928. Class 45.
Trippe, Barker & Co., New York, N. Y. Cotton and linen piece goods. 245,742; Aug. 21; Serial No. 264,485; published June 5, 1928. Class 42.
Troy Laundry Machinery Company Limited, Troy, N. Y., and Chicago, Ill., assignor to Troy Laundry Machinery Co. Inc., East Moline, Ill. Certain laundry machines. 72,082; renewed Dec. 29, 1928.
Union Special Machine Company, Chicago, Ill. Sewing machines. 245,701; Aug. 21; Serial No. 265,306; published June 5, 1928. Class 23.
Union Stove Works, The, Peekskill, N. Y. Gas cooking stoves and parts thereof. 245,796; Aug. 21; Serial No. 261,687; published June 12, 1928. Class 34.
United Sausage Co., Boston, Mass. Frankfurters, bologna, pressed ham, etc. 245,882; Aug. 21. Class 46.
United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Finishing machines and polishing machines. 245,613; Aug. 21; Serial No. 254,064; published June 12, 1928. Class 23.
United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Cementing machines, machines for operating upon insoles, etc. 245,614; Aug. 21; Serial No. 254,017; published June 5, 1928. Class 23.
United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Machinery. 245,868; Aug. 21; Serial No. 252,131; published June 5, 1928. Class 23.
United States Gutta Percha Paint Company, Saco, Me., and Providence, R. I., assignor to United States Gutta Percha Paint Company, Providence, R. I. Opaque enamel paint. 71,082; renewed Oct. 27, 1928.
Universal Appliance, Inc., assignor to Rite-Hete Appliance, Inc., Minneapolis, Minn. Electric laundry irons, supports, frying pans, etc. 245,866; Aug. 21; Serial No. 250,827; published June 12, 1928. Class 21.
University Press: John Wilson & Son, Incorporated, Cambridge, Mass. Periodical. 245,839; Aug. 21; Serial No. 263,293; published June 5, 1928. Class 38.
Vereinigte Chemische Werke Aktiengesellschaft, Charlottenburg, Germany. Cold cream and pomades containing wool suint. 71,914; renewed Dec. 22, 1928.
Vienna Pearl Button Manufacturing Company, The, Muscatine, Iowa, and New York, N. Y., assignor to Pennant Pearl Button Company, Muscatine, Iowa. Pearl buttons. 70,320; renewed Aug. 18, 1928.
Vulcan Last Company, The, doing business as Vulcan Golf Company, Portsmouth, Ohio. Golf clubs. 245,876; Aug. 21. Class 22.
Warner, J. Wilbur, doing business as Home Chocolate Shop, Frederick, Md. Chocolate and bonbons. 245,750; Aug. 21; Serial No. 264,664; published June 5, 1928. Class 46.
Webber, John D., Winona, Minn. Candy. 245,883; Aug. 21; Serial No. 251,638; published June 5, 1928. Class 46.
Webster, F. S., Company, Boston, Mass. Inking ribbons and carbon paper. 245,776; Aug. 21; Serial No. 264,062; published June 5, 1928. Class 11.
Weiner, Morris, New York, N. Y. Jewelry. 245,620; Aug. 21; Serial No. 260,201; published June 12, 1928. Class 28.
Weinreich, David J., doing business as Joseph Weinreich, Dayton, Ohio. Cigars. 245,712; Aug. 21; Serial No. 265,180; published June 5, 1928. Class 17.
West Coast Fruit Company, Clearwater, Fla. Canned grapefruit. 245,813; Aug. 21; Serial No. 265,594; published June 12, 1928. Class 46.
West, F. C., Corporation, Chicago, Ill. Automobile tire chains. 245,763; Aug. 21; Serial No. 264,213; published June 5, 1928. Class 13.
Wester Bros., assignor to Wester Bros., New York, N. Y. Certain cutlery. 66,854; renewed Dec. 31, 1927.
Western Briar Pipe Company, Chicago, Ill. Smoking pipes. 245,731; Aug. 21; Serial No. 264,339; published June 12, 1928. Class 8.
Western Vegetable Distributors, Denver, Colo. Fresh lettuce. 245,812; Aug. 21; Serial No. 265,595; published June 12, 1928. Class 46.
White Cloud Farms, Incorporated, Rock Tavern, N. Y. Art pottery. 245,806; Aug. 21; Serial No. 265,819; published June 12, 1928. Class 30.
Wicke, A. C., Manufacturing Company, New York, N. Y. Refrigerator display cases. 245,853; Aug. 21; Serial No. 262,832; published June 12, 1928. Class 32.
Wilson & Co., Inc., Chicago, Ill. Hydrostearoleine. 245,631; Aug. 21; Serial No. 259,036; published Apr. 10, 1928. Class 46.
Worcester Lawn Mower Company, Worcester, Mass. Lawn mowers. 245,635; Aug. 21; Serial No. 258,054; published June 5, 1928. Class 23.
Wright Aeronautical Corporation, Paterson, N. J. Internal-combustion engines for aeronautical purposes. 245,676; Aug. 21; Serial No. 264,790; published June 12, 1928. Class 23.
Wulkan-Fleming, Inc., New York, N. Y. Combination radiospeaker and electric lamp. 245,633; Aug. 21; Serial No. 258,927; published June 5, 1928. Class 21.
Yamate, Sasato, doing business as Yamate Bros., San Francisco, Calif. Canned crab meat. 245,881; Aug. 21. Class 46.
Young, W. H., Corporation, Chicago, Ill. Typewriter ink, typewriter ribbons, sheets, pads, etc. 245,859; Aug. 21; Serial No. 226,323; published June 5, 1928. Class 11.
Zornes, Roy C., doing business as Nu-Heat Company, Wilmington, Calif. Fireplaces. 245,762; Aug. 21; Serial No. 264,218; published June 12, 1928. Class 34.
Zuchman Bros., New York, N. Y. Jewelry for personal wear, not including watches. 245,720; Aug. 21; Serial No. 264,403; published June 5, 1928. Class 28.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

D & C Co., Inc., The, Wilmington, Del., and Brooklyn, N. Y. For Dessert—My-T-Fine. For Dessert Preparations. 34,450; Aug. 21.
Fitzpatrick Bros., Chicago, Ill. Kitchen Klenzer. For Cleaning Preparations in Finely-Divided Form for Household Use for Cleaning, Scouring, and Polishing Metal, Glass, Woodwork, Machinery, Culinary, and Like Articles, Etc. 34,451; Aug. 21.
Green, Morris J., Chicago, Ill. Burdenwies Barley Malt Sirup. For Barley-Malt Sirup. 34,452; Aug. 21.
Hood, Charles B., doing business as Red Dot Mfg. Co., Orange, Tex. Red Hot Ant Syrup. For a Preparation for Extermination of Certain Ants That Infest the House. 34,453; Aug. 21.
Imperial Candy Co., Seattle, Wash. The Gift of the West. For Candy. 34,454; Aug. 21.
Independent Macaroni Co. Inc., doing business as Independent M'f'g. Co., Mount Vernon, N. Y. It's the Durum Wheat that makes Good Macaroni. For Macaroni. 34,455; Aug. 21.
Lipps, Frederick W., Co., Inc., Baltimore, Md. Concord Grape Style Cordial Cherries. For Candy. 34,456; Aug. 21.
Red Dot Mfg. Co. (See Hood, Charles B.)
Reichardt Cocoa & Chocolate Co., Inc., New York, N. Y. Reichardt's Chocolate Maps. For Candy. 34,457; Aug. 21.
River Products Co., Iowa City, Iowa. Vitalime. For Stock and Poultry Feed. 34,458; Aug. 21.
Rutherford Company, Miami, Fla. Florida Maid. For Fruit Products. 34,459; Aug. 21.
Sutherland Paper Company, The, Kalamazoo, Mich. Country Maid. For Butter. 34,460; Aug. 21.
Sutherland Paper Company, The, Kalamazoo, Mich. Delicia. For Butter. 34,461; Aug. 21.
Val Blatz Brewing Co., Milwaukee, Wis. Old Gold. For Malt Syrup. 34,462; Aug. 21.
Val Blatz Brewing Company, Milwaukee, Wis. It's a Bird. For Malt Syrup. 34,463; Aug. 21.
Vogler-Schillo Company, Chicago, Ill. Arlington. For All Kinds of Pickles. 34,464; Aug. 21.
Whiting Paper Company, Holyoke, Mass. Whiting's Gotham Linen. For Stationery. 34,465; Aug. 21.
Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. White Cap. For Mints. 34,466; Aug. 21.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech Nut Peppermint Chewing Gum. For Chewing Gum. 11,171; Aug. 21.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Chewing Gum, Wintergreen. For Chewing Gum. 11,172; Aug. 21.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Chewing Gum, Spearmint. For Chewing Gum. 11,173; Aug. 21.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Licorice Flavored Chewing Gum. For Chewing Gum. 11,174; Aug. 21.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Fruit Flavored Chewing Gum. For Chewing Gum. 11,175; Aug. 21.
Bell Tavern System, Chicago, Ill. Bell Taverns. For Food. 11,176; Aug. 21.
Esberger Bros., Cincinnati, Ohio. Esberger Wedding Rings Assure Love and Happiness. For Wedding Rings. 11,177; Aug. 21.
Hardeman-King Company, Oklahoma City, Okla. Flies are Dangerous, Meritine Knocks 'Em Dead. For Insecticide. 11,178; Aug. 21.
Nicotex Company, The, New York, N. Y. Nicotex. For Preparation for Removing Tobacco and Nicotine Stains from the Skin. 11,179; Aug. 21.
Platt-Forbes, Inc., New York, N. Y. Ajax. For Combs. 11,180; Aug. 21.
Richardson Corporation, Rochester, N. Y. Liberty Root Beer. For Root Beer. 11,181; Aug. 21.
U S Cartridge Co., New York, N. Y. U S Shot Sheels A Load for Every Purpose a Shell for every Purse. For U S Shot Sheils. 11,182; Aug. 21.
Western Dairy Products Co., Seattle, Wash. A Food—Vital as Sunshine. For Ice Cream. 11,183; Aug. 21.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

A. B. A. Specialties Company, Inc., New York, N. Y. Separable garment fasteners together with draw strings for undergarments, and shoulder straps. 254,023; Aug. 21. Class 40.
Abendroth Brothers, Port Chester, N. Y. Oil, gas, coal, and coke fuel heaters. 268,261; Aug. 21. Class 34.
Aluminum Goods Manufacturing Co., Manitowoc, Wis. Aluminum ware. 266,775; Aug. 21. Class 13.
American Stores Company, Philadelphia, Pa. Coffee. 268,726; Aug. 21. Class 46.
Aron, J., & Company, Inc., New Orleans, La. Green coffee. 269,384–5; Aug. 21. Class 46.
Aseptine Products Company. (See Ross, Leo.)
Askam, Le Roy, Milford, Conn. Electrically-operated windshield cleaners. 267,628; Aug. 21. Class 29.
Aspinook Co., The, Jewett City, Conn. Leather substitutes and pyroxylin-coated fabrics. 268,074; Aug. 21. Class 50.
Ateha Adler Textildruckgesellschaft Hamburg m. b. H., Hamburg, Germany. Cotton table covers and counterpanes. 252,637; Aug. 21. Class 42.
Atlanta Belting Company, Atlanta, Ga. Leather belting. 269,273; Aug. 21. Class 35.
Atlantic Commission Co., Inc., New York, N. Y. Fresh carrots, lettuce, beets, etc. 267,526; Aug. 21. Class 46.
Atlantic-Pacific Mfg. Corpn., Brooklyn, N. Y. Life preservers, etc. 268,528; Aug. 21. Class 22.
Atlas Publishing Co., Inc., New York, N. Y. Magazine. 269,077; Aug. 21. Class 38.
Ault-Williamson Shoe Co., Auburn, Me. Shoes. 267,827; Aug. 21. Class 39.
B & C Chemical Co., Ridgefield, N. J. Preparation composed of chemicals and oils. 265,360; Aug. 21. Class 6.
Banks, Chester O., doing business as C. O. Banks Co., Monrovia, Calif. Fresh citrus fruits. 269,079; Aug. 21. Class 46.
Barnger-Webster Company, Eau Claire, Wis. Candy. 266,454; Aug. 21. Class 46.
Barouh Hermanos, Habana, Cuba. Perfumes, toilet powders, and toilet waters. 263,915; Aug. 21. Class 6.
Batchelder-Wilson Company, Los Angeles, Calif. Clay products. 267,741; Aug. 21. Class 12.
Berg, F., & Company, Norwalk, Conn. Men's felt hats. 265,313; Aug. 21. Class 39.
Berkeley Company, Chicago, Ill. Sanitary napkins. 268,479; Aug. 21. Class 44.
Berkshire Knitting Mills, Reading, Pa. Hosiery. 262,148; Aug. 21. Class 39.
Berth Robert-Gross Inc., New York, N. Y. Silk piece goods. 269,219; Aug. 21. Class 42.
Berth Robert-Gross Inc., New York, N. Y. Wool fabrics. 269,220; Aug. 21. Class 42.
Billings & Spencer Company, The, Hartford, Conn. Hand tools. 268,841; Aug. 21. Class 23.
Black Star Mink Farm, Chilton, Wis. Fur pelts. 267,226; Aug. 21. Class 1.
Bocchio, Luisa, doing business as Louisa Bocchio & Co., Garfield, N. J. Salve. 269,507; Aug. 21. Class 6.
Böhme, H. Th., A. G., Chemnitz, Germany. Chemical dye aids. 266,785; Aug. 21; Class 6.
Bonatone Laboratories, Los Angeles, Calif. Medicated chewing gum. 268,903; Aug. 21. Class 6.
Bowman, Harvey, doing business as The Sunolive Home, Maple Glenn, Pa. Medicated salve. 267,347; Aug. 21. Class 6.
British Drug Houses, Limited, The, London, England. Medicinal preparation containing vitamin D. 266,972; Aug. 21. Class 6.
Bronston Bros. and Co., Inc., New York, N. Y. Hats. 267,629–30; Aug. 21. Class 39.
Brown, L. L., Paper Company, Adams, Mass. Ledger paper, bond paper, etc. 266,297; Aug. 21. Class 37.
Brown Remedy Co., Inc., Warsaw, N. C. Medicinal preparation. 257,782; Aug. 21. Class 6.
Bruner, Marion C., doing business as Powder Puff Candy Co., Los Angeles, Calif. Candy. 269,388; Aug. 21. Class 46.
Bryce & Weston Limited, London, England. Collars for wear. 263,748; Aug. 21. Class 39.
Bulova Watch Company, Inc., New York, N. Y. Watches and watch movements. 268,419; Aug. 21. Class 27.
Bushnell, Arthur N., jr., assignor to Alvah Bushnell Company, Philadelphia, Pa. File pockets or containers for papers. 268,076; Aug. 21. Class 37.
Busse, Frank A., Co., Inc., Brooklyn, N. Y. Metal polishes. 268,768; Aug. 21. Class 4.
C. & M. Hosiery Mills, Inc., Oxford, N. C. Hosiery and underwear. 267,746; Aug. 21. Class 39.
Comroc, Inc., Cincinnati, Ohio. Chemical compound for use in concrete. 265,258–9; Aug. 21. Class 6.
Chocolaterie-Confiserie César Société Anonyme, Antwerp, Belgium. Candies. 266,849; Aug. 21. Class 46.
City Mills Company, Columbus, Ga. Wheat flour. 268,847; Aug. 21. Class 46.
Cleveland Garment Manufacturers Association, Cleveland, Ohio. Monthly magazine. 269,183; Aug. 21. Class 38.
Cohen, Weenen & Co., Limited, London, England. Smoking tobacco. 266,975; Aug. 21. Class 17.
Collins, Joseph P., St. Louis, Mo. Wrapping-paper sheets and rolls. 255,896; Aug. 21. Class 37.
Concealo Fixture Company, Oakland, Calif. Ironing boards and clothes-dryer cabinets and clothes-dryer racks. 268,214; Aug. 21. Class 24.
Cones, C. B., & Son Manufacturing Company, The, Indianapolis, Ind. Laundered colored shirts, overalls, work coats and shirts. 265,830; Aug. 21. Class 39.
Continental Optical Corporation, Indianapolis, Ind. Ophthalmic lenses. 268,588; Aug. 21. Class 26.
Cooper, Joseph B., New York, N. Y. Metals, alloys, and solders. 264,358; Aug. 21. Class 14.
Co-Operative Grange League Federation Exchange, Inc., Syracuse, N. Y. Fertilizers. 268,970; Aug. 21. Class 10.
Coudurier, Fructus & Descher, Lyon, France. Silk piece goods. 263,588; Aug. 21. Class 42.
Cream of Wheat Company, Minneapolis, Minn. Wheat breakfast food. 268,427; Aug. 21. Class 46.
Crompond Farm, Inc., Yorktown Heights, N. Y. Eggs and butter. 265,831; Aug. 21. Class 46.
Crowell Publishing Company, The, New York, N. Y. Monthly magazine. 268,972; Aug. 21. Class 38.
Crystal Chemicals, Inc., Pittsburgh, Pa. Metal-polish cleaning compound. 231,983; Aug. 21. Class 4.
Curtiss Candy Company, The, Chicago, Ill. Candy. 268,590; Aug. 21. Class 46.
Cuthrell Company, Incorporated, The, Norfolk, Va. Bicycles. 266,192. Aug. 21. Class 19.
Dalgger Corporation, Chicago, Ill. Tray for ice-cream cones. 267,758; Aug. 21. Class 2.
Dean-Hicks Company, The, Grand Rapids, Mich. Magazine. 263,753; Aug. 21. Class 38.
Deco Refreshment Inc., Buffalo, N. Y. Finger rolls, sandwich rolls, wieners, etc. 260,811; Aug. 21. Class 46.
De La Montanya, P., doing business as Mount Rouge Company, San Francisco, Calif. Beverages. 269,099; Aug. 21. Class 45.
Denver Color Works, Inc., Denver, Colo. Dry wall finish. 267,541; Aug. 21. Class 16.
De Remont, Napoleon, New York, N. Y. Photographic-negative-retouching tool. 261,049; Aug. 21. Class 37.
Desmond's, Los Angeles, Calif. Shirts. 266,584; Aug. 21. Class 39.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Detroit Dental Manufacturing Co., Detroit, Mich. Dental modeling compounds. 266,361; Aug. 21. Class 44.
Devoe & Raynolds Co., Inc., New York, N. Y. Paste and ready-mixed paints, varnishes, and lacquers. 268,490; Aug. 21. Class 16.
De Welles, I. W. E., Inc., New York, N. Y., and Boston, Mass. Chocolates, candies, and bonbons. 268,682; Aug. 21. Class 46.
Dewey Portland Cement Company, Kansas City, Mo. Weekly publication. 268,086; Aug. 21. Class 38.
Diaz, Felix A., doing business as Laboatories, Filarysine, Santurce, P. R. Pharmaceutical preparation. 261,667; Aug. 21. Class 6.
Diveo-Detroit Corporation, Detroit, Mich. Motor trucks and constructive parts thereof. 266,718; Aug. 21. Class 19.
Earl, Bertram G., doing business as B. G. Earl & Company, Chicago, Ill. Sweetened skim-milk cocoa. 244,349; Aug. 21. Class 46.
Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Fred. Mülhens. (See Mülhens, Paul P.)
Educator Shoe Corporation of America, The. (See Kinney, G. R., Co., Inc., assignor.)
Elberton Quarries Inc., Carlton, Ga. Quarried granite in blocks. 265,201; Aug. 21. Class 12.
Elder Mfg. Co., St. Louis, Mo. Shirts and boys' blouses. 268,431; Aug. 21. Class 39.
Electrolux Servel Corporation, New York, N. Y. Refrigerators, refrigerator parts, etc. 265,895; Aug. 21. Class 31.
Excelsior Brewery Inc., Brooklyn, N. Y. Malt syrup and pretzels. 267,544; Aug. 21. Class 46.
Fairchild Bros. & Foster, New York, N. Y. Concentrate or extract obtained from citrus fruit. 267,761; Aug. 21. Class 6.
Felt & Tarrant Manufacturing Company, Chicago, Ill. Periodical. 268,860; Aug. 21. Class 38.
"Fish-an'-See" Co., The. (See Hicks, Thomas W.)
Flako Products Corporation, New Brunswick, N. J. Prepared flour. 269,018; Aug. 21. Class 46.
Flintkote Company, The, Boston, Mass. Composition roll roofing, composition shingles, etc. 263,869–70; Aug. 21. Class 12.
Flintkote Company, The, Boston, Mass. Composition roofing shingles. 266,858; Aug. 21. Class 12.
Flintkote Company, The, Boston, Mass. Asphaltic composition roofing shingles. 267,570; Aug. 21. Class 12.
Florsheim Shoe Company, The, Chicago, Ill. Shoes. 267,704; Aug. 21. Class 39.
Franchina, Louis B., Cleveland, Ohio. Family medicines and toilet articles. 203,464; Aug. 21. Class 6.
Freedman, Charles S., Los Angeles, Calif. Suppositories. 268,977; Aug. 21. Class 6.
General-Direktion der Österr. Tabakregie, Vienna, Austria. Chewing, smoking, snuffing tobaccos, cigars, and cigarettes. 265,631; Aug. 21. Class 17.
General-Direktion der Österr. Tabakregie, Vienna, Austria. Chewing, smoking, snuffing tobaccos, cigars, and cigarettes. 269,402–4; Aug. 21. Class 17.
General Fibre Box Company, West Springfield, Mass. Corrugated-fibre boxes. 268,599; Aug. 21. Class 2.
Glaze, Charles, Exeter, Calif. Fresh deciduous fruits. 268,275; Aug. 21. Class 46.
Goldwasser, J., New York, N. Y. Fur trimmings. 264,229; Aug. 21. Class 40.
Goodman Cloak Company, The, Cleveland, Ohio. Coats, suits, dresses. 252,771; Aug. 21. Class 39.
Gordon Baking Company, Detroit, Mich. Bread. 268,923; Aug. 21. Class 46.
Gorman, Ed. A., Incorporated, Dayton, Ky. Coal. 267,952. Aug. 21. Class 1.
Grant, W. T., Company, doing business as Solar Mfg. Co., Lynn, Mass., and New York, N. Y. Hand drills, bench grinders, etc. 269,019; Aug. 21. Class 23.
Great Atlantic & Pacific Tea Company, The, Jersey City, N. J. Coffee and chicory compound. 261,112; Aug. 21. Class 46.
Great Lakes Dredge & Dock Company, Chicago, Ill. Pile drivers, locomotive cranes, etc. 252,382; Aug. 21. Class 23.
Hallock-Denton Co., Newark, N. J. Vanilla extract. 239,516; Aug. 21. Class 46.
Hart Drug Corporation, Miami, Fla. Preparations for the treatment of hemorrhoids. 268,541; Aug. 21. Class 6.
Harvey's Drug Store. (See Rosokoff, Harvey J.)
Hawaiian Pineapple Company, Ltd., San Francisco, Calif., and Iwilei, Hawaii. Canned pineapple. 266,992; Aug. 21. Class 46.
Hawkins, Orville L., Indianapolis, Ind. Pop-corn confections. 261,191; Aug. 21. Class 46.
Heald Machine Company, The, Worcester, Mass. Precision grinding machines. 268,604; Aug. 21. Class 23.
Heat Proof Table Mat Company, St. Louis, Mo. Table mats. 251,056; Aug. 21. Class 50.
Hedman Manufacturing Company, Chicago, Ill. Change-making machines. 241,226–7; Aug. 21. Class 26.
Hercules Products Company, St. Joseph, Mich. Automobile rim tools. 267,196–7; Aug. 21. Class 23.
Hercules Products, Inc., Evansville, Ind. Automobile motor-truck and motor-bus bodies, cabs, seats, etc. 268,373; Aug. 21. Class 19.
Hernandez, Miguel J., doing business as Melliere Laboratories, New York, N. Y. Pharmaceutical preparation. 266,319; Aug. 21. Class 6.
Hero Clothing Mfg. Co., Inc., Philadelphia, Pa. Overcoats and suits. 265,964; Aug. 21. Class 39.
Hicks, Thomas W., doing business as The "Fish-an'-See" Co., South Minneapolis, Minn. Underwater periscopes. 268,496; Aug. 21. Class 26.
Hill Bros. Co., Hudson, Mass. Leather shoes. 268,156; Aug. 21. Class 39.
Hill & Griffith Co., The, Cincinnati, Ohio. Blend of natural materials to be used in molding and core sands. 267,254. Aug. 21. Class 1.
Hill, Howard W., Co., Beverly, Mass. Shoes. 264,583; Aug. 21. Class 39.
Home Extract Company, Tacoma, Wash. Malt syrup. 268,609; Aug. 21. Class 46.
Home Game Company, Inc., Mechanicsville, N. Y. Table ball games. 265,792; Aug. 21. Class 22.
Honey Candy Company of America, The, Youngstown, Ohio. Candy. 268,374; Aug. 21. Class 46.
Hood Rubber Company, Watertown, Mass. Rubber boots and shoes, rubber overshoes, etc. 263,872; Aug. 21. Class 39.
Horwath & Horwath, New York, N. Y. Monthly bulletin. 268,227; Aug. 21. Class 38.
Hostler Coal & Coke Company, Chicago, Ill. Coal. 263,085; Aug. 21. Class 1.
Hunt, David, and Company, Oswego and Cherry Creek, N. Y. Canned fruits and vegetables. 261,008; Aug. 21. Class 46.
Hy-Art Hy-Way Display Corporation, Los Angeles, Calif. Statuary for outdoor display. 264,687; Aug. 21. Class 50.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main and Berlin, Germany. Photographic sensitized plates, films, etc. 266,195; Aug. 21. Class 26.
Imperial Trust for the Encouragement of Scientific and Industrial Research, The, London, England. Metal-working taps, surface plates, and leading screws. 235,778; Aug. 21. Class 23.
Improvement Association, Chicago, Ill. Magazine. 268,611; Aug. 21. Class 38.
Indiana Truck Corporation, Marion, Ind. Motor trucks. 268,788; Aug. 21. Class 19.
Iron Fireman Manufacturing Company, Portland, Oreg. Automatic coal burners. 258,128; Aug. 21. Class 34.
Isidor Weinstein-Coats-Inc., New York, N. Y. Women's and misses' coats. 261,850; Aug. 21. Class 39.
Italian Sausage Manufacturing Co., Beaver Falls, Pa. Sausages. 269,064; Aug. 21. Class 46.
James Manufacturing Company, Fort Atkinson, Wis. Mangers for metal cow stalls, calf, bull, and hog pens, stock and storage tanks. 267,050; Aug. 21. Class 2.
Jonas Millinery, Inc., New York, N. Y. Ladies' hats. 267,965; Aug. 21. Class 39.
Kasko Products Company, Inc., Philadelphia, Pa. Sweetening compound. 263,090; Aug. 21. Class 46.
Ken-Wel Sporting Goods Co., Inc., New Hartford, N. Y. Baseballs, boxing gloves, etc. 266,596; Aug. 21. Class 22.
Kinney, G. R., Co., Inc., assignor to The Educator Shoe Corporation of America, New York, N. Y. Leather boots and shoes. 263,954; Aug. 21. Class 39.
Kramer, H., & Company, Chicago, Ill. Brass ingots, bronze ingots, pig lead, etc. 269,122; Aug. 21. Class 14.
Laboratoires Filarysine. (See Diaz, Felix A.)
Legg, A. C., Packing Company, Inc., Birmingham, Ala. Seasoning for meats or other foods. 260,738; Aug. 21. Class 46.
Liebovitz, S., & Sons, Inc., New York, N. Y. Sport jackets and coats and weatherproof jackets and coats. 263,611–12; Aug. 21. Class 39.
Lilly Tree Surgeons, Inc., The, Rye, N. Y. Tree-cavity filler. 264,727; Aug. 21. Class 12.
Lindorff, William F., doing business as Lindorff Manufacturing Company, Flushing, N. Y. Gravy. 261,968; Aug. 21. Class 46.
Link-Belt Company, Chicago, Ill. Heat-treated ferrous metals. 263,232; Aug. 21. Class 14.
Los Angeles Brewing Co., Los Angeles, Calif. Malt extracts and syrups. 267,975; Aug. 21. Class 46.
Luneburg, Martin, Astoria, N. Y. Cosmetics. 268,105; Aug. 21. Class 6.
Lyle, Annie G., San Francisco, Calif. Nonalcoholic beverages. 266,675; Aug. 21. Class 45.
Lyons, Bentley H., doing business as B. H. Lyons Co., St. Louis, Mo. Coffee substitute. 264,240; Aug. 21. Class 46.
MacKinnon, E., & Coelho, Buenos Aires, Argentina. Paraguayan tea. 266,254; Aug. 21. Class 46.
Macy, R. H., & Co., Inc., New York, N. Y. Golf clubs. 268,503; Aug. 21. Class 22.
Macy, R. H., & Co., Inc., New York, N. Y. Dishwashing appliance. 268,504; Aug. 21. Class 23.
Marks, Harry, Clothing Company, Inc., Richmond, Va. Coats, vests, pants, etc. 267,654; Aug. 21. Class 39.
Martins, Inc., Brooklyn, N. Y. Suits, overcoats, trousers, etc. 267,779; Aug. 21. Class 39.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Marwell, Max, Brooklyn, N. Y. Day beds and cots. 267,848; Aug. 21. Class 32.
Mavrelis, Peter L., doing business as The Mavrelline Company, Waterloo, Iowa. Salve. 268,232; Aug. 21. Class 6.
McEwen, Irving, Omaha, Nebr. Liquid disinfectant and deodorant preparation. 269,415; Aug. 21. Class 6.
McHenry, William T., doing business as W. T. McHenry, Ganado, Tex. Preparation for treating rheumatic and kidney trouble, etc. 267,849; Aug. 21. Class 6.
Meadolake Milk Products Company, Sherman, Tex. Creamery butter, ice cream, condensed milk, etc. 261,070; Aug. 21. Class 46.
Melliere Laboratories. (See Hernandez, Miguel J.)
Menihan Company, The, Rochester, N. Y. Leather or cloth top shoes and pumps. 261,678; Aug. 21. Class 39.
Meyer Brothers, Paterson, N. J. Shoes. 266,549; Aug. 21. Class 39.
Miller, I., & Sons, Inc., Long Island City, N. Y. Canes, parasols, and umbrellas. 257,689; Aug. 21. Class 41.
Miller, Robert E., New York, N. Y. Metal wall rack for kitchen utensils. 268,379; Aug. 21. Class 13.
Miville, Mrs. Edouard, née Emérentienne Smith, Victoriaville, Canada. Garment patterns. 267,267; Aug. 21. Class 26.
Mount Rouge Company. (See De La Montanya, P.)
Mülhens, Paul P., doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Soaps. 261,802; Aug. 21. Class 4.
Munsingwear Corporation, The, Minneapolis, Minn. Hosiery. 268,744; Aug. 21. Class 39.
Mutschler, Francis T., Sunbury, Pa. Automobile top dressing. 262,374; Aug. 21. Class 4.
Mutual Knitting Mills. (See Trabilcy, Eugene N.)
Nash Motors Company, The, Kenosha, Wis. Automobiles and structural parts thereof. 266,680; Aug. 21. Class 19.
Nash Motors Company, The, Kenosha, Wis. Automobiles and structural parts thereof. 266,680; Aug. 21. Class 19.
National Committee on Correct Style, Inc., The, Chicago, Ill. Hat linings. 260,129. Aug. 21. Class 39.
National Radio Institute, Washington, D. C. Textbooks, radio work sheets, etc. 268,802; Aug. 21. Class 38.
Navytone Company, The, Philadelphia, Pa. Men's suits. 249,368; Aug. 21. Class 32.
New York Hat Stores, Inc., Los Angeles, Calif. Hats for men and boys. 264,900; Aug. 21. Class 39.
Nicotex Company, The, New York, N. Y. Preparation for removing tobacco and nicotine stains from the skin. 268,953; Aug. 21. Class 6.
Nielsen Packing Company, doing business as Peak-O-Health Products, San Francisco, Calif. Canned vegetables. 266,475; Aug. 21. Class 46.
Northwestern Extract Co., Milwaukee, Wis. Beverages and sirups, extracts, and concentrates for making the same. 269,362; Aug. 21. Class 45.
Norway Shoe Company, Norway, Me. Shoes. 265,921; Aug. 21. Class 39.
Nulife Patents Corporation, New York, N. Y. Corsets, brassières, etc. 267,786; Aug. 21. Class 39.
Ohio Leather Company, The, Girard, Ohio. Leathers. 264,183; Aug. 21. Class 1.
Ohlendorf, August, Jersey City, N. J. Canned bologna. 229,641; Aug. 21. Class 46.
Old, Emma B., doing business as Old's Manufacturing Company, Kansas City, Mo. Piano, furniture, floor, and automobile polish. 267,176; Aug. 21. Class 16.
Oliver, Nell, Portland, Oreg. Soap. 268,167; Aug. 21. Class 4.
Oliver Twist Wafer Co. Inc., Long Island City, N. Y. Ice-cream cones. 267,384; Aug. 21. Class 46.
Orocide Chemical Company. (See Stearn, Boris J.)
Ostermann, Francis X., Englewood, N. J. Preparation for the relief of poison-ivy affections. 267,504; Aug. 21. Class 6.
Overhead Door Corporation, Hartford City, Ind. Garage doors. 219,134; Aug. 21. Class 12.
Pamina Preparations Company, Inc., New York, N. Y. Creams, brilliantine, eye lotions, eyebrow pencils, etc. 251,199; Aug. 21. Class 6.
Parfums Lionceau, Inc., New York, N. Y. Perfumes, toilet waters, bath powder, etc. 263,786; Aug. 21. Class 6.
Parlier Fruit Growers Association, Parlier, Calif. Fresh deciduous fruits. 269,055; Aug. 21. Class 46.
Paul, Nellie M., Easton, Pa. Individual paper drinking cups. 260,132; Aug. 21. Class 2.
Peak-O-Health Products. (See Nielsen Packing Company.)
Pendleton Woolen Mills, Portland, Oreg. Clothing. 267,790; Aug. 21. Class 39.
Permanizing Stations of America, Inc., Denver, Colo. Cleaner for automobile bodies, etc. 267,077; Aug. 21. Class 4.
Philfuels Company, Bartlesville, Okla. Concentrated natural gas. 267,143; Aug. 21. Class 6.
Phillips & Buttorff Mfg. Co., Nashville, Tenn. Coal or wood burning household heater. 267,385; Aug. 21. Class 34.
Pi Beta Phi Settlement School of the Pi Beta Phi Fraternity, Gatlinburg, Tenn. Scarfs and shawls for personal wear. 262,871; Aug. 21. Class 39.
Pi Beta Phi Settlement School of the Pi Beta Phi Fraternity, Gatlinburg, Tenn. Textile goods and certain wooden articles. 269,143; Aug. 21. Class 2.
Pi Beta Phi Settlement School of the Pi Beta Phi Fraternity, Gatlinburg, Tenn. Wooden furniture. 269,144; Aug. 21. Class 32.
Popular Dogs Publishing Company, Inc., Philadelphia, Pa. Magazines and other periodical publications. 261,207; Aug. 21. Class 38.
Portite Facial Products Co., Miami, Fla. Facial products. 268,390; Aug. 21. Class 6.
Powder Puff Candy Co. (See Bruner, Marion C.)
Pratt-Rymer Co., San Leandro, Calif. Locks. 268,463; Aug. 21. Class 25.
Publicker Incorporated, Philadelphia, Pa. Ethyl acetate, butyl acetate, etc. 269,549; Aug. 21. Class 6.
Purox Company, Denver, Colo. Rubber hose. 267,796; Aug. 21. Class 35.
Purox Company, Denver, Colo. Welding rods. 267,797; Aug. 21. Class 14.
Purox Company, Denver, Colo. Welding and cutting gas torches. 267,798; Aug. 21. Class 34.
Raley, A. M., doing business as Raley Coffee Co., Evansville, Ind. Malt syrup. 268,511; Aug. 21. Class 46.
Rasin-Monumental Company of Anne Arundel County, Baltimore, Md. Fertilizers. 269,149–50; Aug. 21. Class 10.
Rayco Paint Company, Detroit, Mich. Paint remover. 266,751; Aug. 21. Class 16.
Red Star Mfg. Co. Inc., San Juan, P. R., and New York, N. Y. Pearl buttons. 257,704; Aug. 21. Class 40.
Reed, James W., Imperial, Calif. Fresh grapefruit. 269,152; Aug. 21. Class 46.
Reichardt Cocoa & Chocolate Co. Inc., also doing business as Reichardt, New Brunswick, N. J. Candy. 269,366; Aug. 21. Class 46.
Reliance Manufacturing Company, Chicago, Ill. Work shirts. 267,723; Aug. 21. Class 39.
Rex Research Corporation, Toledo, Ohio. Insecticide and insect repellent. 266,441; Aug. 21. Class 6.
Richman & Samuels Inc., New York, N. Y. Fresh vegetables. 269,257; Aug. 21. Class 46.
Richmond Hosiery Mills, Rossville, Ga. Hosiery. 268,704; Aug. 21. Class 39.
Riddell, W. A., Company, Bucyrus, Ohio. Wheel scoops, graders, scarifiers, etc. 258,499; Aug. 21. Class 23.
Robinson & Golluber, New York, N. Y. Cotton piece goods. 268,562; Aug. 21. Class 42.
Rochester Folding Box Co., The, Rochester, N. Y. Paper. 256,309; Aug. 21. Class 37.
Rose, John E., Co. Inc., New York, N. Y. Suspenders, belts, etc. 263,562; Aug. 21. Class 39.
Roser, P., Manufacturing Company, Inc., Richmond, Va. Automobile polish. 266,835; Aug. 21. Class 16.
Rosokoff, Harvey J., doing business as Harvey's Drug Store, North Tonawanda, N. Y. Medicine. 269,607; Aug. 21. Class 6.
Ross, Leo, doing business as Aseptine Products Company, Brooklyn, N. Y. Mouth wash and gargle. 262,872; Aug. 21. Class 6.
Royal Beauty Silk Hosiery Co., New York, N. Y. Underwear and hosiery for ladies, misses, and children. 268,751 Aug. 21. Class 39.
Rubin, Alexander, San Francisco, Calif. Ladies' and misses' hats. 266,756–7; Aug. 21. Class 39.
Safepack Mills, Millis, Mass. Roofing and building paper. 263,427; Aug. 21. Class 12.
Sally Frocks, Inc., Chicago, Ill. Frocks and dresses. 248,933; Aug. 21. Class 39.
Säureschutz-Gesellschaft m. b. H., Berlin-Alt-Glienicke, Germany. Tubes, pipes, valves, faucets, etc. 266,888; Aug. 21. Class 13.
Säureschutz-Gesellschaft m. b. H., Berlin-Alt-Glienicke, Germany. Vessels or tanks, casings, and cylinders. 266,890; Aug. 21. Class 2.
Schmidt Lithograph Company, San Francisco, Calif. Display cards, printed advertising signs, and counter cards. 267,999; Aug. 21. Class 38.
Seidel, Ad., & Sons, Chicago, Ill. Dry jelly. 269,156; Aug. 21. Class 46.
Semmes, Eleanor B., Washington, D. C. Crystallized grapefruit. 269,039; Aug. 21. Class 46.
Shaban, Islam, Mansfield, Ohio. Preparation. 269,324; Aug. 21. Class 6.
Shenker, Max, Brooklyn, N. Y. Knitted caps. 266,150; Aug. 21. Class 22.
Shield Co. Inc., The, Fort Worth, Tex. Golf balls, golf clubs, and golf bags. 269,325; Aug. 21. Class 22.
Shoecraft Shop Inc., New York, N. Y. Stockings, gaiters, heel pads, etc. 265,990; Aug. 21. Class 39.
Simmons, George W., Corporation, New York, N. Y. Ginger ale. 268,395; Aug. 21; Class 45.
Simmons, George W., Corporation, New York, N. Y. Brooms. 268,396; Aug. 21. Class 29.
Simon Manufacturing Company, Richmond Hill, N. Y. Metal polish. 267,671; Aug. 21. Class 4.
Smith, Emérentienne. (See Miville, Mrs. Edouard.)
Solar Mfg. Co. (See Grant, W. T., Company.)
Solid Carbonic Company, Ltd., The, New York, N. Y. Solid carbon dioxide. 266,688; Aug. 21. Class 6.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Southeastern Chemical Co., Jacksonville, Fla. Dry drugs and liquids. 251,516; Aug. 21. Class 6.
Southern Manufacturing Company, Athens, Ga. Cotton cloth piece goods. 269,157; Aug. 21. Class 42.
Southwestern Milling Company, Inc., The, New York, N. Y., and Kansas City, Mo. Whole-wheat flour. 267,088; Aug. 21. Class 46.
Spearhead Boiler Plug Inc., Cleveland, Ohio. Boiler repair plugs. 258,838; Aug. 21. Class 13.
Stahl-Urban & Company, Terre Haute, Ind. Work shirts. 266,331-2; Aug. 21. Class 39.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Liquid cleansing compounds and detergents. 268,644; Aug. 21. Class 4.
Standard Oil Company of New Jersey, Wilmington, Del. Periodical publications. 269,159; Aug. 21. Class 38.
Stearn, Boris J., doing business as Orocide Chemical Company, Chicago, Ill. Mouth wash. 268,824; Aug. 21. Class 6.
Stern Brothers, New York, N. Y. Men's suits, overcoats, pajamas, hose, etc. 265,582; Aug. 21. Class 39.
Stock Market Reporter, Inc., New York, N. Y. Weekly stock-market review. 269,267; Aug. 21. Class 38.
Strauss, Hugo, Packing Co., Inc., Brooklyn, N. Y. Canned food. 257,418; Aug. 21. Class 46.
Sunolive Home, The. (See Bowman, Harvey.)
Superior Felt & Bedding Co., Chicago, Ill. Mattresses. 269,331; Aug. 21. Class 32.
Tennessee Products Corporation, Nashville, Tenn. Charcoal. 265,304; Aug. 21. Class 1.
Ternstedt Manufacturing Company, Detroit, Mich. Automobile body hardware. 266,283; Aug. 21. Class 14.
Thibodeau, A. F., Co., Inc., Detroit, Mich. Butter. 269,210; Aug. 21. Class 46.
Tiffany & Company, New York, N. Y. Flexible steel measuring tapes, aeronautical and marine compasses, etc. 267,092; Aug. 21. Class 26.
Tiffany & Company, New York, N. Y. Table cutlery, pocketknives, scissors, etc. 267,093; Aug. 21. Class 23.
Tiffany & Company, New York, N. Y. Clothes brushes, hairbrushes, powder puffs, etc. 267,095; Aug. 21. Class 29.
Tiffany & Company, New York, N. Y. Table glassware. 267,096; Aug. 21. Class 33.
Tile & Mantel Contractors' Association of America, The, Wilmington, Del. Letterheads. 266,843; Aug. 21. Class 37.
Tip Top Creamery Co., The, Vincennes, Ind. Butter. 269,333; Aug. 21. Class 46.
Trabilcy, Eugene N., doing business as Mutual Knitting Mills, New York, N. Y. Knitted neckties. 204,846; Aug. 21. Class 39.
Train's Poultry Farm Hatchery, Inc., Englewood Station, Mo. Live baby chicks, ducks, turkeys, and geese. 249,824; Aug. 21. Class 46.
Travers, Martha E., Columbus, Ohio. Marlaceous materials. 267,163; Aug. 21. Class 1.
Tuxedo Hat Body Corporation, The, New York, N. Y. Ladies' felt hat bodies. 267,617; Aug. 21. Class 39.
United Carbon Company, Charleston, W. Va. Carbon black. 267,399; Aug. 21. Class 16.
United Rabbitries Marketing Inc., Duarte, Calif. Hides and furs. 267,814; Aug. 21. Class 1.
U. S. Fur Auction Brokerage Corp., New York, N. Y. Furs. 264,546; Aug. 21. Class 1.
United States Products Corporation, Birmingham, Ala. Rubber and asbestos mechanical packings and belts. 269,376; Aug. 21. Class 35.
Universal Milk Company, New York, N. Y. Evaporated milk. 267,471; Aug. 21. Class 46.
Veildown Company, Inc., New York, N. Y. Catamenial napkins. 268,474; Aug. 21. Class 44.
Virginia Dare Extract Co., Inc., Brooklyn, N. Y. Soft drinks and syrups, extracts, etc., for making the same. 211,638; Aug. 21. Class 45.
Wakie Products Corporation. (See Waskiewicz, John.)
Wampole, Henry K., and Company, Incorporated, Philadelphia, Pa. Medication in capsule form. 268,406; Aug. 21. Class 6.
Warren, Roscoe F., Los Angeles, Calif. Children's cowboy play suits. 258,971; Aug. 21. Class 39.
Waskiewicz, John, doing business as Wakie Products Corporation, Bloomfield, N. J. Ointment. 269,538; Aug. 21. Class 6.
Waterbury Button Company, Waterbury Conn. (Lighters. 268,127; Aug. 21. Class 34.
Weller, J., Company, The, Oak Harbor, Ohio. Pickles. 269,164; Aug. 21. Class 46.
Westergaard, B., & Co., Brooklyn, N. Y. Bread. 268,666; Aug. 21. Class 46.
Western Electric Company, Incorporated, New York, N. Y. Title of a monthly publication. 268,758; Aug. 21. Class 38.
White Hall Baking Company, Flint and Detroit, Mich. Bread. 269,341; Aug. 21. Class 46.
Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candy. 269,166; Aug. 21. Class 46.
Widmann & Teah, Inc., Lock Haven, Pa. Medicinal preparations and products. 267,172; Aug. 21. Class 6.
Wilson-Western Sporting Goods Company, Chicago, Ill. Golf clubs. 269,540; Aug. 21. Class 22.
Winship, W. W., & Sons, Inc., Utica, N. Y. Wardrobe trunks, carrying cases, etc. 269,342; Aug. 21. Class 3.
Yankee Polish Co. Inc., New York, N. Y. Polishes and dressings. 252,993; Aug. 21. Class 16.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Coal, Semibituminous. Chesapeake & Ohio Coal & Coke Company. 71,706; renewed Dec. 15, 1928.
Leather, Tanned. Gutmann & Company. 71,506; renewed Dec. 1, 1928.

CLASS 2.

Bags, Grain. J. E. Harton. 245,694-5; Aug. 21; Serial Nos. 263,393-4; published June 5, 1928.
Bags, Grain. J. E. Harton. 245,697; Aug. 21; Serial No. 263,319; published June 5, 1928.
Barn and stable equipment and equipment for chicken houses, etc. Drew Line Company. 245,774; Aug. 21; Serial No. 264,086; published June 5, 1928.
Bins and receptacles, Metallic. A. H. Levene. 245,764; Aug. 21; Serial No. 264,172; published June 12, 1928.
Boxes or cartons, Pasteboard. Hoague-Sprague Corporation. 245,862; Aug. 21; Serial No. 251,668; published June 12, 1928.
Caskets, Burial. E. J. Greive. 245,623; Aug. 21; Serial No. 259,729; published June 5, 1928.
Sacks, Paper. Bemis Bro. Bag Company. 245,747; Aug. 21; Serial No. 264,667; published June 12, 1928.
Vanity or compact case, Empty. Parfums Edouardo. 245,624; Aug. 21; Serial No. 259,693; published June 12, 1928.

CLASS 3.

Harness parts. Enterprise Manufacturing Company. 72,243; renewed Jan. 12, 1929.
Horse equipment. Marshall-Wells Hardware Co. 71,595; renewed Dec. 1, 1928.

CLASS 4.

Abrasive articles and compounds. Carborundum Company. 245,860; Aug. 21; Serial No. 248,754; published June 5, 1928.
Abrasive grinding wheels. Precision Grinding Wheel Company. 245,759-60; Aug. 21; Serial Nos. 264,258-9; published June 5, 1928.
Abrasive materials. Marshall-Wells Hardware Co. 71,386; renewed Nov. 24, 1928.
Dressing, Automobile top, etc. V. A. Minor. 245,696; Aug. 21; Serial No. 263,332; published June 12, 1928.
Pastelike preparation. Barbasol Company. 245,858; Aug. 21; Serial No. 262,347; published June 5, 1928.
Polish for silverware, metal, and glass. C. H. Schulman. 245,643; Aug. 21; Serial No. 263,898; published June 12, 1928.
Polishing compounds. Stewart-Warner Speedometer Corporation. 245,861; Aug. 21; Serial No. 260,660; published June 5, 1928.
Preparation for cleaning and polishing silverware. Service Products Incorporated. 245,670; Aug. 21; Serial No. 264,848; published June 12, 1928.
Soap, Shaving. McKesson & Robbins, Incorporated. 245,706; Aug. 21; Serial No. 265,228; published June 12, 1928.
Soap, Toilet. C. A. Crary. 245,727; Aug. 21; Serial No. 264,359; published June 12, 1928.
Soap, Toilet, laundry, etc. Service Grocer Company. 245,741; Aug. 21; Serial No. 264,703; published June 12, 1928.
Soaps. Lockwood, Adams and Company. 72,373; renewed Jan. 19, 1929.
Soaps. G. W. Marsh. 245,703; Aug. 21; Serial No. 265,280; published June 12, 1928.

CLASS 5.

Glue, mucilage, and adhesive paste, Liquid. Russia Cement Company. 72,172-3; renewed Jan. 5, 1929.

CLASS 6.

Beeswax. E. A. Bromund. 71,618; renewed Dec. 8, 1928.
Chemical preparation, Certain. Theodore Metcalf Co. 69,942; renewed July 21, 1928.
Chemicals. Solvay & Cie. 72,031; renewed Dec. 29, 1928.

Cold cream and pomades containing wool suint. Vereinigte Chemische Werke Aktiengesellschaft. 71,914; renewed Dec. 22, 1928.
Lozenges, Perfumed. Searle & Hereth Company. 32,026; renewed Oct. 4, 1928.
Medicine. T. A. Haughton. 245,779; Aug. 21; Serial No. 265,724; published June 12, 1928.
Remedy for dandruff and itching scalp. P. C. Clemensen. 71,707; renewed Dec. 15, 1928.
Salts, Artificial mineral. J. C. Minor, jr. 32,087; renewed Oct. 25, 1928.
Toilet preparations. V. B. Thomas. 71,265; renewed Nov. 10, 1928.
Tonic preparations, Medicinal. Theodore Metcalf Co. 69,904; renewed July 14, 1928.

CLASS 7.

Rope, wall-paper twine, etc., Tube. Hanover Cordage Company. 245,617; Aug. 21; Serial No. 253,753; published June 5, 1928.

CLASS 8.

Pipes, Smoking. Western Briar Pipe Company. 245,731; Aug. 21; Serial No. 264,339; published June 12, 1928.

CLASS 9.

Gun barrels. Hunter Arms Co. 32,348-9; renewed Jan. 10, 1929.

CLASS 10.

Fertilizer. Eastern Cotton Oil Company. 245,756; Aug. 21; Serial No. 264,569; published June 12, 1928.
Fertilizers. Grasselli Chemical Company. 245,647; Aug. 21; Serial No. 263,820; published June 5, 1928.

CLASS 11.

Inking ribbons and carbon paper. F. S. Webster Company. 245,776; Aug. 21; Serial No. 264,062; published June 5, 1928.
Inks, Printing. Pantone Processes Limited. 245,744; Aug. 21; Serial No. 264,477; published June 5, 1928.
Inks, Printing. Pantone Processes Limited. 245,757; Aug. 21; Serial No. 264,474; published June 5, 1928.
Typewriter ink, ribbons, sheets, pads, etc. W. H. Young Corporation. 245,859; Aug. 21; Serial No. 226,323; published June 5, 1928.

CLASS 12.

Cement, Portland. Lehigh Portland Cement Company. 32,183; renewed Nov. 22, 1928.
Glassware. Opalite Tile Co. 70,706; renewed Sept. 29, 1928.
Tents, awnings, paulins, and felt weather strips, Duck. Marshall-Wells Hardware Co. 71,509; renewed Dec. 1, 1928.

CLASS 13.

Bibs and valves. Thomas Savill & Sons. 70,225; renewed Aug. 11, 1928.
Chains, Automobile tire. F. C. West Corporation. 245,763; Aug. 21; Serial No. 264,213; published June 5, 1928.
Hardware, Door and window. Rheinische Türschliesser-Fabrik Boge & Kasten G. m. b. H. 245,790; Aug. 21; Serial No. 262,121; published June 5, 1928.
Kettles, Jacketed. Sowers Manufacturing Company. 245,788; Aug. 21; Serial No. 262,130; published June 5, 1928.
Metal articles. Marshall-Wells Company. 71,389; renewed Nov. 24, 1928.
Pipe, Cast-iron. James B. Clow & Sons. 245,709; Aug. 21; Serial No. 265,196; published June 5, 1928.
Plated ware in general used in connection with plumber's work. Hudson Brass Works, Inc. 245,599; Aug. 21; Serial No. 258,578; published June 12, 1928.
Sprinklers, Lawn. F. I. Jaden. 245,749; Aug. 1; Serial No. 264,518; published June 12, 1928.
Toilet seats. M. P. Berglas Manufacturing Co. Inc. 245,611; Aug. 21; Serial No. 254,739; published June 5, 1928.

CLASS 14.

Babbitt metal sheet, steel, tin plate, and silver solder. Marshall-Wells Hardware Co. 71,548; renewed Dec. 1, 1928.

CLASS 15.

Gasoline. Sherwood Bros. Inc. 245,841; Aug. 21; Serial No. 263,178; published June 5, 1928.
Oil, Lubricating. Gibson Oil Company. 245,629; Aug. 21; Serial No. 259,283; published June 12, 1928.
Oil, Lubricating. C. E. Harrell. 245,653; Aug. 21; Serial No. 263,604; published June 5, 1928.
Oils and greases, Lubricating and cutting. F. Swain. 245,600; Aug. 21; Serial No. 258,361; published June 5, 1928.
Preparations for oiling roads. American Tar Company. 70,388; renewed Aug. 25, 1928.
Preparations for oiling roads. American Tar Company. 70,389-90; renewed Aug. 25, 1928.

CLASS 16.

Paint, Opaque enamel. United States Gutta Percha Paint Company. 71,082; renewed Oct. 27, 1928.
Size, Gold. Cornish Eureka Gold Size Co. 71,777; renewed Dec. 15, 1928.

CLASS 17.

Cigars. Corral Wodiska y Ca. 245,639; Aug. 21; Serial No. 264,019; published June 5, 1928.
Cigars. Corral Wodiska y Ca. 245,778; Aug. 21; Serial No. 264,020; published June 5, 1928.
Cigars. H. Fendrich. 72,270-4; renewed Jan. 12, 1929.
Cigars. D. J. Weinreich. 245,712; Aug. 21; Serial No. 265,180; published June 5, 1928.
Cigars, cigarettes, and cut tobacco. C. Del Peso y Compañia. 245,857; Aug. 21; Serial No. 262,600; published June 12, 1928.
Tobacco, Chewing, smoking, etc. General-Direktion der Österr. Tabakregie. 245,626; Aug. 21; Serial No. 259,489; published June 12, 1928.

CLASS 19.

Busses and trucks, Motor. International Motor Company. 245,889; Aug. 21.
Coverings for vehicle seats, Straw-matting. H. J. Joachim. 245,766; Aug. 21; Serial No. 264,168; published June 12, 1928.
Perambulators. Lines Brothers Limited. 245,737; Aug. 21; Serial No. 264,763; published June 5, 1928.
Shock absorbers. J. H. Graham. 245,601; Aug. 21; Serial No. 257,507; published June 5, 1928.

CLASS 20.

Oilcloth and oilcloth table covers. Standard Textile Products Company. 245,798; Aug. 21; Serial No. 261,399; published June 5, 1928.

CLASS 21.

Alarms, Systems of burglar and fire. C. C. Klentz. 245,765; Aug. 21; Serial No. 264,169; published June 12, 1928.
Batteries, Storage. Grant Storage Battery Company. 245,719; Aug. 21; Serial No. 264,428; published June 12, 1928.
Electric controls for electric switches, temperature-operated electric switches, etc. Federal Gauge Company. 245,654-5; Aug. 21; Serial No. 263,596-7; published June 5, 1928.
Irons, doughnut bakers, etc., Electric waffle. Dominion Electrical Mfg. Co. 245,622; Aug. 21; Serial No. 259,946; published June 12, 1928.
Irons, supports, frying pans, etc., Electric laundry. Universal Appliance, Inc. 245,866; Aug. 21; Serial No. 250,827; published June 12, 1928.
Lamps, Electric incandescent and arc. Deutsche Gasglühlicht Aktiengesellschaft (Auergesellschaft). 70,573; renewed Sept. 15, 1928.
Lamps, Incandescent electric. Banner Electric Company. 70,124; renewed Aug. 4, 1928.
Lamps, Incandescent electric. Buckeye Electric Company. 70,043; renewed July 28, 1928.
Lamps, Incandescent electric. Sunbeam Incandescent Lamp Company. 70,213; renewed Aug. 11, 1928.
Lamps, Portable electric. Digit Manufacturing Company. 245,650; Aug. 21; Serial No. 263,754; published June 5, 1928.
Metal-coated paper. Brittains, Limited. 245,843; Aug. 21. Serial No. 263,123; published June 5, 1928.
Radio loud speakers. Fanspeaker Radio Co. 245,733; Aug. 21; Serial No. 264,293; published June 12, 1928.
Radio receiving sets. King Manufacturing Corporation. 245,864; Aug. 21; Serial No. 245,793; published June 5, 1928.
Radiospeaker and electric lamp, Combination. Wulkan-Fleming, Inc. 245,633; Aug. 21; Serial No. 258,927; published June 5, 1928.
Signs, Electrical advertising. Adsign Corporation. 245,863; Aug. 21; Serial No. 249,318; published June 5, 1928.
Spark plugs. B. G. Corporation. 245,675; Aug. 21; Serial No. 264,708; published June 12, 1928.
Telephone-receiver supports. Convenience Products Corporation. 245,852; Aug. 21; Serial No. 262,899; published June 5, 1928.
Vehicles or cars. Morgan-Gardner Electric Company. 245,865; Aug. 21; Serial No. 245,743; published June 12, 1928.

CLASS 22.

Fishing tackle. Enterprise Manufacturing Company. 71,940; renewed Dec. 22, 1928.
Golf clubs. Vulcan Last Company. 245,876; Aug. 21.
Sporting goods. Marshall-Wells Hardware Co. 71,390; renewed Nov. 24, 1928.

CLASS 23.

Axes, scythes, knives, etc. North Wayne Tool Company. 245,649; Aug. 21; Serial No. 263,781; published June 5, 1928.
Blades, Hack-saw. Pyramid Hack Saw Company. 245,743; Aug. 21; Serial No. 264,478; published June 12, 1928.
Carriers for barns and stables. Drew Line Company. 245,773; Aug. 21; Serial No. 264,087; published June 5, 1928.
Couplings for power-transmission shafting. International Motor Company. 245,888; Aug. 21.
Cutlery. Cattaraugus Cutlery Company. 72,060; renewed Dec. 29, 1928.

Cutlery. Wester Bros. 66,854; renewed Dec. 31, 1927.
Cutlery and tools. Marshall-Wells Hardware Co. 71,387; renewed Nov. 24, 1928.
Drilling machines, Well. Fort Worth Well Machinery & Supply Company. 245,877; Aug. 21.
Drills and harrows, Grain. J. I. Case Threshing Machine Company. 245,640; Aug. 21; Serial No. 264,011; published June 12, 1928.
Engines, Internal-combustion. Wright Aeronautical Corporation. 245,676; Aug. 21; Serial No. 264,790; published June 12, 1928.
Finishing and polishing machines. United Shoe Machinery Corporation. 245,613; Aug. 21; Serial No. 254,064; published June 12, 1928.
Gears. Charles Bond Company. 245,818; Aug. 21; Serial No. 265,464; published June 12, 1928.
Lathes, saws, drills, etc. Delta Manufacturing Company. 245,603; Aug. 21; Serial No. 256,863; published June 5, 1928.
Machine, Milling. Kearney & Trecker. 245,874; Aug. 21.
Machinery. United Shoe Machinery Corporation. 245,868; Aug. 21; Serial No. 252,131; published June 5, 1928.
Machinery and parts thereof, Conveying. Jeffrey Manufacturing Co. 245,869–70; Aug. 21; Serial Nos. 246,907–8; published June 5, 1928.
Machinery, Rolling. Aetna-Standard Engineering Company. 245,619; Aug. 21; Serial No. 260,611; published June 5, 1928.
Machines. United Shoe Machinery Corporation. 245,614; Aug. 21; Serial No. 254,017; published June 5, 1928.
Machines, Milling. Kearney & Trecker. 245,875; Aug. 21.
Mills and crushers. Polysius Corporation. 245,671; Aug. 21; Serial No. 264,844; published June 12, 1928.
Motors, Internal-combustion. Curtiss Aeroplane and Motor Company. 245,810; Aug. 21; Serial No. 265,624; published June 12, 1928.
Mowers, Lawn. Worcester Lawn Mower Company. 245,635; Aug. 21; Serial No. 258,054; published June 5, 1928.
Pliers. J. A. Peterson. 245,871; Aug. 21; Serial No. 236,849; published June 12, 1928.
Plows and parts of plows. Chattanooga Plow Co. 69,742; renewed June 30, 1928.
Rakes, Hand. Eastern Tool & Mfg. Co. 245,772; Aug. 21; Serial No. 264,090; published June 5, 1928.
Razors. Fred Dolle, Inc. 245,746; Aug. 21; Serial No. 264,674; published June 5, 1928.
Sewing machines. Union Special Machine Company. 245,701; Aug. 21; Serial No. 265,306; published June 5, 1928.
Sifting and screening apparatus. Blutergess. 245,805; Aug. 21; Serial No. 265,828; published June 12, 1928.
Spray guns. George Sachsenmaier Co. 245,793; Aug. 21; Serial No. 261,912; published June 5, 1928.
Starter for automobiles, Mechanical auxiliary. A. C. McCurdy. 245,685; Aug. 21; Serial No. 265,051; published June 12, 1928.
Strainers. R. A. & M. T. Meyer. 245,616; Aug. 21; Serial No. 253,763; published June 5, 1928.
Tools, Carpenters'. Sears, Roebuck and Co. 245,809; Aug. 21; Serial No. 265,696; published June 12, 1928.
Trowels of all kinds. E. C. Atkins & Company. 245,769; Aug. 21; Serial No. 264,134; published June 12, 1928.

CLASS 24.

Clothes washer, Electric. Conlon Corporation. 245,645; Aug. 21; Serial No. 263,862; published June 5, 1928.
Clothes-washing machines and driers and combinations of the same. Syracuse Washing Machine Corporation. 245,666; Aug. 21; Serial No. 264,924; published June 5, 1928.
Ironing-board covers and pads. J. C. Penney Company. 245,667; Aug. 21; Serial No. 264,908; published June 12, 1928.
Ironing-board covers and pads. J. C. Penney Company. 245,668; Aug. 21; Serial No. 264,904; published June 12, 1928.
Laundry machines. Troy Laundry Machinery Company Limited. 72,082; renewed Dec. 29, 1928.

CLASS 26.

Electrical apparatus. Servwell Sales Corporation. 245,618; Aug. 21; Serial No. 253,518; published June 5, 1928.
Films, Motion-picture. Carpenter-Goldman Laboratories, Inc. 245,728; Aug. 21; Serial No. 264,351; published June 5, 1928.
Films, Motion-picture. F B O Productions Inc. 245,819; Aug. 21; Serial No. 260,815; published June 12, 1928.
Films, Serially-issued motion-picture. A. J. Flaven. 245,768; Aug. 21; Serial No. 264,159; published June 12, 1928.
Lenses, Ophthalmic. Newton Optical Company. 245,714; Aug. 21; Serial No. 265,162; published June 5, 1928.
Measuring instruments, Electrical. Jewell Electrical Instrument Co. 245,641; Aug. 21; Serial No. 263,948; published June 12, 1928.
Measuring instruments, Electrical. Landis & Gyr A.-G. 245,782; Aug. 21; Serial No. 262,407; published June 12, 1928.
Ophthalmascopes, retinoscopes, etc. W. J. Cameron. 245,854; Aug. 21; Serial No. 262,798; published June 12, 1928.
Photographic paper, Sensitized. I. G. Farbenindustrie Aktiengesellschaft. 245,872; Aug. 21; Serial No. 260,991; published June 12, 1928.
Spectacles and goggles. Standard Optical Export Corp. 245,820; Aug. 21; Serial No. 247,498; published June 5, 1928.
Squares, wing dividers, and levels. Marshall-Wells Hardware Co. 71,388; renewed Nov. 24, 1928.

CLASS 27.

Clocks. Hawkeye Clock Co. 245,636; Aug. 21; Serial No. 258,613; published June 12, 1928.
Watches and watchcases. Elgin National Watch Company. 245,726; Aug. 21; Serial No. 264,367; published June 12, 1928.

CLASS 28.

Bracelets, Flexible. Sommer, Braverman & Harris, Inc. 245,732; Aug. 21; Serial No. 264,330; published June 5, 1928.
Gold and platinum enameled and jeweled novelties and diamond jewelry. Alfred J. Casse & Co. Inc. 245,797; Aug. 21; Serial No. 261,485; published June 5, 1928.
Jewelry. Louis Gratz Sons, Inc. 245,771; Aug. 21; Serial No. 264,096; published June 12, 1928.
Jewelry. Krayaler Bros. 245,725; Aug. 21; Serial No. 264,375; published June 5, 1928.
Jewelry. J. Lerman. 245,724; Aug. 21; Serial No. 264,376; published June 5, 1928.
Jewelry. Masur & Herman. 245,723; Aug. 21; Serial No. 264,378; published June 5, 1928.
Jewelry. Michelsen & Grossman. 245,621; Aug. 21; Serial No. 259,247; published June 5, 1928.
Jewelry. Simon Miller & Co. 245,684; Aug. 21; Serial No. 265,057; published June 12, 1928.
Jewelry. O. Pennino. 245,609; Aug. 21; Serial No. 255,724; published June 12, 1928.
Jewelry. O. Pennino. 245,637; Aug. 21; Serial No. 255,723; published June 5, 1928.
Jewelry. Schneider, Hyman & Co. 245,722; Aug. 21; Serial No. 264,386; published June 5, 1928.
Jewelry. Sigman Bros. 245,721; Aug. 21; Serial No. 264,391; published June 5, 1928.
Jewelry. Stein & Koslow. 245,849; Aug. 21; Serial No. 263,053; published June 12, 1928.
Jewelry. Tenen Bros. 245,848; Aug. 21; Serial No. 263,056; published June 12, 1928.
Jewelry. M. Weiner. 245,620; Aug. 21; Serial No. 260,201; published June 12, 1928.
Jewelry. Zuchman Bros. 245,720; Aug. 21; Serial No. 264,403; published June 5, 1928.
Jewelry, Articles of. American Platinumsmiths. 245,730; Aug. 21; Serial No. 264,344; published June 5, 1928.
Jewelry, Platinum and platinum alloy. I. Stern & Co. 245,867; Aug. 21; Serial No. 260,921; published June 5, 1928.
Knives, forks, and spoons, Silver-plated. Marshall-Wells Hardware Co. 71,473; renewed Nov. 24, 1928.
Rings, bracelets, bar pins, etc., Finger and ear. Frackman Bros. 245,648; Aug. 21; Serial No. 263,817; published June 12, 1928
Rings, Finger. California Jewelry & Novelty Co. 245,840; Aug. 21; Serial No. 263,255; published June 12, 1928.
Rings, Finger. Jacob Segal & Company. 245,785; Aug. 21; Serial No. 262,182; published June 5, 1928.
Rings, Wedding. W. Pels. 245,672; Aug. 21; Serial No. 264,841; published June 12, 1928.

CLASS 29.

Brooms. American Broom & Brush Company. 72,348; renewed Jan. 19, 1929.
Brooms. Harrah & Stewart Mfg. Co. 69,925; renewed July 21, 1928.
Brushes, Paint. Baker Brush Co. 245,883; Aug. 21.

CLASS 30.

Pottery, Art. White Cloud Farms, Incorporated. 245,806; Aug. 21; Serial No. 265,819; published June 12, 1928.

CLASS 31.

Refrigerators. Northern Refrigerator Company. 71,948; renewed Dec. 22, 1928.

CLASS 32.

Beds, bed springs, and mattresses. Southern Spring Bed Company. 245,632; Aug. 21; Serial No. 258,961; published June 12, 1928.
Book ends and smoking stands. Frankart, Inc. 245,787; Aug. 21; Serial No. 262,165; published June 12, 1928.
Chairs, Baby. Bastian Manufacturing Company. 245,716; Aug. 21; Serial No. 265,133; published June 5, 1928.
Display cases, Refrigerator. A. C. Wicke Manufacturing Company. 245,853; Aug. 21; Serial No. 262,832; published June 12, 1928.
Mattresses. Hess Manufacturing Company. 245,783; Aug. 21; Serial No. 262,306; published June 5, 1928.
Mirrors. W. P. Fuller & Co. 245,686 7; Aug. 21; Serial Nos. 265,039–40; published June 5, 1928.
Spring units. Trenton Spring Products Company. 245,717; Aug. 21; Serial No. 265,127; published June 12, 1928.

CLASS 33.

Protectors of celluloid. Bulova Watch Company. 245,887; Aug. 21.

CLASS 34.

Fireplaces. R. C. Zornes. 245,762; Aug. 21; Serial No. 264,218; published June 12, 1928.
Heaters, Air and water. Galloways Limited. 245,630; Aug. 21; Serial No. 259,280; published June 5, 1928.
Heating systems, etc., Gas and oil burning central. Cleveland Heater Company. 245,878; Aug. 21.
Incinerators. Kernit Incinerator Company. 245,627; Aug. 21; Serial No. 259,411; publishd June 5, 1928.
Lighters, Pyrophoric cigar and cigarette. M. Reichblum. 245,751; Aug. 21; Serial No. 264,657; published June 12, 1928.
Lighters, Pyrophoric pocket. Napier Company. 245,879; Aug. 21.
Retorts, caldrons, tanks, and boilers for heating rubber, etc. Sowers Manufacturing Company. 245,789; Aug. 21; Serial No. 262,129; published June 5, 1928.
Stoves and parts thereof, Gas cooking. Union Stove Works. 245,796; Aug. 21; Serial No. 261,687; published June 12, 1928.
Ventilating apparatus. Lakeside Ventilating Co. 245,780; Aug. 21; Serial No. 262,468; published June 5, 1928.
Ventilating apparatus. Lakeside Ventilating Co. 245,781; Aug. 21; Serial No. 262,467; published June 12, 1928.
Ventilating apparatus, Gravity-operated. Drew Line Company. 245,775; Aug. 21; Serial No. 264,085; published June 12, 1928.
Ventilators, Vault. O. B. McClintock Co. 245,885; Aug. 21.

CLASS 35.

Belting, Leather. Detroit Oil Belting Company. 72,038; renewed Dec. 29, 1928.
Belts and belting. Graton & Knight Company. 245,791; Aug. 21; Serial No. 261,958; published June 5, 1928.
Brake-band linings. Durwyllan Company. 245,673; Aug. 21; Serial No. 264,812; published June 5, 1928.
Tire protectors, portable tire and tube repair outfits, etc., Inside. Goodyear Tire & Rubber Company. 245,817; Aug. 21; Serial No. 265,473; published June 12, 1928.
Tires and inner tubes, etc., Pneumatic. Miller Rubber Company. 245,855; Aug. 21; Serial No. 262,670; published June 5, 1928.
Tires and tubes, Automobile. Phelps Tire & Rubber Company. 245,700; Aug. 21; Serial No. 265,401; published June 5, 1928.
Tires and tubes, Pneumatic rubber. American Rubber & Tire Co. 245,711; Aug. 21; Serial No. 265,183; published June 5, 1928.

CLASS 36.

Cymbals. Ferd. Gretsch Mfg. Co. 245,846; Aug. 21; Serial No. 263,082; published June 12, 1928.
Phonographs and parts thereof. Geo. Borgfeldt & Co. 245,729; Aug. 21; Serial No. 264,347; published June 12, 1928.
Pianos and player pianos. Hardman, Peck & Co. 245,698; Aug. 21; Serial No. 263,318; published June 12, 1928.
Piano players, Automatic. Autopiano Company. 69,922; renewed July 21, 1928.

CLASS 37.

Books, etc., Baseball score. A. J. Reach Company. 245,752; Aug. 21; Serial No. 264,654; published June 5, 1928.
Paper, Blotting. Rochester Paper Co. 245,795; Aug. 21; Serial No. 261,769 published June 5, 1928.
Paper packed in cartons, Wall. A. H. Stebbins. 245,646; Aug. 21; Serial No. 263,836; published June 5, 1928.
Paper, Wrapping. Graham Paper Company. 245,745; Aug. 21; Serial No. 264,680; published June 5, 1928.
Paper, Writing. Byron Weston Company. 245,880; Aug. 21.
Paper, Writing and printing. American Writing Paper Company. 245,886; Aug. 21.
Pencil case. J. Samuels. 245,610; Aug. 21; Serial No. 255,032; published June 5, 1928.
Stamps and rubber type, Rubber. R. D. Swisher Mfg. Co. 245,821; Aug. 21; Serial No. 247,297; published June 5, 1928.

CLASS 38.

Cards or tickets, window display cards, etc., Price. Allied Drug Stores, Inc. 245,822; Aug. 21; Serial No. 250,781; published June 5, 1928.
Cartoons, Comic. D. Herold. 245,638; Aug. 21; Serial No. 254,454; published June 12, 1928.
Cartoons, Comic. D. Herold. 245,815; Aug. 21; Serial No. 265,541; published June 12, 1928.
Certificates. B. Ansebl. 245,823; Aug. 21; Serial No. 249,034; published June 5, 1928.
Encyclopedias, Loose-leaf. Thomas Nelson & Sons. 71,950; renewed Dec. 22, 1928.
Filing-system printed cards issued weekly. American Society of Mechanical Engineers. 245,754; Aug. 21; Serial No. 264,630; published June 5, 1928.
House organ. G. W. Carnrick Co. 245,811; Aug. 21; Serial No. 265,616; published June 12, 1928.
House organ. Alice Foote MacDougall & Sons, Inc. 245,707; Aug. 21; Serial No. 265,223; published June 5, 1928.
House-organ title. Piggly Wiggly Corporation. 245,755; Aug. 21; Serial No. 264,604; published June 5, 1928.
Journals, pamphlets, or so-called house organs, Trade. Automotive Royalties Corporation, Inc. 245,699; Aug. 21; Serial No. 265,421; published June 12, 1928.
Magazine. Carter's Ink Company. 72,079; renewed Dec. 29, 1928.
Magazine. Dell Publishing Company. 245,642; Aug. 21; Serial No. 263,935; published June 12, 1928.
Magazine. B. C. Forbes Publishing Company. 245,615; Aug. 21; Serial No. 253,992; published June 5, 1928.
Magazine. Style Ideas Publishing Company. 245,739; Aug. 21; Serial No. 264,706; published June 12, 1928.
Magazine, Biweekly fiction. Lucky Publishing Corporation. 245,680; Aug. 21; Serial No. 265,111; published June 5, 1928.
Magazine of popular songs. H. L. Bonnell. 245,658; Aug. 21; Serial No. 263,531; published June 5, 1928.
Magazine published monthly. Curtis Publishing Company. 245,644; Aug. 21; Serial No. 263,863; published June 5, 1928.
Magazine, Title to. Thirty Fourth Street-Midtown Association, Inc. 245,736; Aug. 21; Serial No. 264,265; published June 5, 1928.
Newspaper articles. J. P. Cluett. 245,804; Aug. 21; Serial No. 265,829; published June 12, 1928.
Newspapers (weekly). Bishard Brothers. 245,802; Aug. 21; Serial No. 265,883; published June 12, 1928.
Periodical. Baseball World, Inc. 245,816; Aug. 21; Serial No. 265,514; published June 12, 1928.
Periodical. University Press; John Wilson & Son, Incorporated. 245,839; Aug. 21; Serial No. 263,293; published June 5, 1928.
Periodicals. Purchasing Agents' Association of Northern California, Incorporated. 245,683; Aug. 21; Serial No. 265,067; published June 5, 1928.
Photographs, Art. Curtis & Cameron. 31,706; renewed June 21, 1928.
Photographs, Mounted and unmounted, etc. K. C. Barclay. 245,753; Aug. 21; Serial No. 264,631; published June 5, 1928.
Publication. Bristol & Willett. 245,800; Aug. 21; Serial No. 265,945; published June 12, 1928.
Publication, Daily. Jewish Trades Publishing Co. 245,801; Aug. 21; Serial No. 265,908; published June 12, 1928.
Publication issued monthly. Bristol & Willett. 245,682; Aug. 21; Serial No. 265,090; published June 5, 1928.
Publication, Monthly. J. Blum. 245,664; Aug. 21; Serial No. 264,959; published June 5, 1928.
Publication, Monthly. Popular Radio, Inc. 245,705; Aug. 21; Serial No. 265,236; published June 5, 1928.
Publication, Semimonthly. B. Kuppenheimer & Co. Inc. 245,652; Aug. 21; Serial No. 263,657; published June 5, 1928.
Publication, Trade. S. Borger. 245,715; Aug. 21; Serial No. 265,136; published June 12, 1928.
Publication, Weekly. N. H. Blom. 245,605; Aug. 21; Serial No. 256,559; published June 5, 1928.
Series of New York law digest and quarterly supplements. Lawyers Co-Operative Publishing Company. 245,807; Aug. 21; Serial No. 265,798; published June 12, 1928.
Sporting column head. R. Cannon. 245,704; Aug. 21; Serial No. 265,256; published June 5, 1928.

CLASS 39.

Drawers and undershirts, Men's. Robert Reis & Co. 71,837; renewed Dec. 15, 1928.
Hosiery. Elliott Knitting Mills, Inc. 245,847; Aug. 21; Serial No. 263,077; published May 1, 1928.
Overalls, jumpers, shirts, and pants. Burnham-Munger Mfg. Co. 71,279; renewed Nov. 17, 1928.
Shoes, Women's leather. D. Davidovitz. 71,994; renewed Dec. 29, 1928.

CLASS 40.

Buttons and buckles. Appelbec & Neuman. 71,987; renewed Dec. 29, 1928.
Buttons, Pearl. Vienna Pearl Button Manufacturing Company. 70,320; renewed Aug. 18, 1928.
Trimmings and braids, Fancy. Dollfus-Mieg & Cie. Société Anonyme. 71,937–9; renewed Dec. 22, 1928.

CLASS 42.

Bed comforts. Carson Pirie Scott & Co. 69,877; renewed July 14, 1928.
Bedspreads, bureau scarfs, doilies, etc. D. Papademetrius. 245,604; Aug. 21; Serial No. 256,650; published June 12, 1928.
Bedspreads made of cotton and cotton and rayon mixtures. Stevens Manufacturing Co. 245,748; Aug. 21; Serial No. 264,539; published June 5, 1928.
Carpets and rugs, Textile. Hardwick & Magee Company. 245,770; Aug. 21; Serial No. 264,099; published June 5, 1928.
Cloths and worsteds for garments. Schwarzwaelder Company. 72,292; renewed Jan. 12, 1929.
Cotton and linen piece goods. Trippe, Barker & Co. 245,742; Aug. 21; Serial No. 264,485; published June 5, 1928.
Cotton piece goods. Pomona Mills, Inc. 245,688; Aug. 21; Serial No. 265,012; published June 5, 1928.
Fabric, Knitted. Lehigh Fabric Corporation. 245,799; Aug. 21; Serial No. 261,267; published June 12, 1928.
Fabrics, Open-mesh. I. E. Palmer Company. 70,184; renewed July 28, 1928.
Fabrics, Woven, knitted, and felted. Haskell Silk Company. 245,681; Aug. 21; Serial No. 265,105; published June 5, 1928.

Linen, cotton, wool, silk, rayon, Piece goods of. Fred Butterfield & Co. Inc. 245,735; Aug. 21; Serial No. 264,279; published June 5, 1928.
Mattress covers and blanket covers made of textile fabric. Al-Lon Mfg. Co. Inc. 245,692; Aug. 21; Serial No. 264,936; published June 5, 1928.
Pile fabrics. Wm. Openhym & Sons. 245,803; Aug. 21; Serial No. 265,853; published June 12, 1928.
Ribbons, materials, fabrics, knitted goods, etc. N. V Nederlandsche Kunstzijdefabriek. 245,612; Aug. 21; Serial No. 254,507; published June 5, 1928.
Ribbons, Silk. Société Anonyme Union Rubaniere. 245,825; Aug. 21; Serial No. 252,799; published June 12, 1928.
Silk piece goods. Albert Godde, Bedin, Inc. 245,884; Aug. 21.
Towels, Turkish. Boott Mills. 245,674; Aug. 21; Serial No. 264,802; published June 12, 1928.
Woolen piece goods. Forstmann & Huffmann. 245,824; Aug. 21; Serial No. 248,169; published June 12, 1928.
Worsted, woolen, and silk piece goods and dress goods. Priestleys Limited. 69,527; renewed June 16, 1928.

CLASS 43.

Yarns and threads. Dollfus-Mieg & Cie. Société Anonyme. 70,827; renewed Oct. 6, 1928.
Yarns or threads. Celanese Corporation of America. 245,659–63; Aug. 21; Serial Nos. 264,963–7; published June 5, 1928.

CLASS 45.

Beverages. W. R. Carpenter. 245,657; Aug. 21; Serial No. 263,585; published June 12, 1928.
Beverages. Mutual Bottling Works. 245,718; Aug. 21; Serial No. 265,115; published June 5, 1928.
Beverages and sirups, etc., for making the same. Cupie Extract Company. 245,734; Aug. 21; Serial No. 264,291; published June 5, 1928.
Beverages, and sirups, etc., for making the same. Finkenstadt & Kaufmann, Inc. 245,856; Aug. 21; Serial No. 262,651; published June 5, 1928.
Beverages, Maltless. Mutual Bottling Works. 245,679; Aug. 21; Serial No. 265,114; published June 5, 1928.
Beverages, syrups, extracts, and concentrates for making the same. A. Mora. 245,608; Aug. 21; Serial No. 255,817; published June 12, 1928.
Beverages, syrups, extracts, and concentrates for making the same. Sierra Club Beverage Co. Inc. 245,665; Aug. 21; Serial No. 264,920; published June 12, 1928.
Chocolate drink and syrups and extracts for making the same. Threemor Chocolate Corporation. 245,844; Aug. 21; Serial No. 263,107; published June 5, 1928.
Extracts and concentrated syrups, Flavoring. J. F. Lazier Manufacturing Co. 245,850–1; Aug. 21; Serial Nos. 262,920–1; published June 5, 1928.
Ginger ale. E. W. Hamann. 245,691; Aug. 21; Serial No. 264,979; published June 12, 1928.
Ginger ale. Liviti Water Corporation. 245,777; Aug. 21; Serial No. 264,032; published June 5, 1928.
Ginger ale. Pacific Extract Company of Illinois, Inc. 245,602; Aug. 21; Serial No. 257,304; published June 12, 1928.
Ginger ale. Pister-Shedel Corporation. 245,786; Aug. 21; Serial No. 262,177; published June 12, 1928.
Ginger ale. Springer Bros. Inc. 245,702; Aug. 21; Serial No. 265,302; published June 5, 1928.
Mineral waters, Natural. Bitresborner Mineralbrunnen H. Löhr & Eylert. 69,944; renewed July 21, 1928.
Water and maltless beverages, Distilled and table. Ballis Brothers. 245,808; Aug. 21; Serial No. 265,772; published June 12, 1928.
Water, Drinking. Cascade Water Company. 245,669; Aug. 21; Serial No. 264,870; published June 12, 1928.

CLASS 46.

Bacon. Maescher & Co. 245,628; Aug. 21; Serial No. 259,340; published June 5, 1928.
Candy. American Caramel Company. 245,831; Aug. 21; Serial No. 248,145; published June 5, 1928.
Candy. Brecht Candy Co. 245,710; Aug. 21; Serial No. 265,192; published June 5, 1928.
Candy. J. T. Hohberger. 245,761; Aug. 21; Serial No. 264,234; published June 5, 1928.
Candy. Nunnally Company. 72,383; renewed Jan. 19, 1929.
Candy. J. D. Webber. 245,833; Aug. 21; Serial No. 251,638; published June 5, 1928.
Canned Bismark herring, anchovies, etc. Menzel & Co. 245,651; Aug. 21; Serial No. 263,714; published June 12, 1928.
Canned clam broth. Doxsee Company. 245,835; Aug. 21; Serial No. 260,676; published June 12, 1928.
Canned clam chowder. Siiz Packing Company. 245,740; Aug. 21; Serial No. 264,705; published June 12, 1928.
Canned crab meat. S. Yamate. 245,881; Aug. 21.
Canned fish. Italian Food Products Company. 245,690; Aug. 21; Serial No. 264,990; published June 5, 1928.
Canned frankfurters with sauerkraut. Biltmore Food Products Co. Inc. 245,634; Aug. 21; Serial No. 258,854; published June 5, 1928.
Canned fruits and vegetables, and dried fruits. Salinas Valley Canning Co. 245,837; Aug. 21; Serial No. 247,973; published Jan. 10, 1928.
Canned fruits, canned vegetables, etc. South Chicago, Wholesale Grocery. 245,829; Aug. 21; Serial No. 244,189; published June 5, 1928.
Canned grapefruit. West Coast Fruit Company. 245,813; Aug. 21; Serial No. 265,594; published June 12, 1928.
Canned kippered herrings, kippered snacks, and smoked sardines. A/S Hermetikfabriken "Norrig." 245,794; Aug. 21; Serial No. 261,781; published June 12, 1928.
Canned pork and beans. B. Brown. 245,607; Aug. 21; Serial No. 256,072; published June 5, 1928.
Canned sardines. Chr. Bjelland & Co. A/S. 245,842; Aug. 21; Serial No. 263,125; published June 12, 1928.
Canned shrimp and oysters. C. B. Foster Packing Co. Inc. 245,758; Aug. 21; Serial No. 264,513; published June 5, 1928.
Canned vegetables. Friday Canning Corporation. 245,830; Aug. 21; Serial No. 260,818; published June 12, 1928.
Caramel paste. Borden's Condensed Milk Company. 72,078; renewed Dec. 29, 1928.
Chocolate and chocolate nut candies. Plymouth Rock Candy Company. 245,845; Aug. 21; Serial No. 263,100; published June 12, 1928.
Chocolates and bonbons. J. W. Warner. 245,750; Aug. 21; Serial No. 264,664; published June 5, 1928.
Chocolate prulines, chocolate, and candies. Alike Chocolate Co. Inc. 245,625; Aug. 21; Serial No. 259,524; published June 5, 1928.
Coffee. Dayton Spice Mills Company. 245,784; Aug. 21; Serial No. 262,213; published June 12, 1928.
Coffee. Eola Coffee Company. 245,656; Aug. 21; Serial No. 263,595; published June 5, 1928.
Coffee. Hale-Halsell Company. 245,708; Aug. 21; Serial No. 265,211; published June 5, 1928.
Coffee. F. C. Ruffino. 245,713; Aug. 21; Serial No. 265,169; published June 12, 1928.
Coffee, Roasted and ground. D. H. Hoffman. 66,926; renewed Jan. 7, 1928.
Confectionery. H. A. Ruggieri. 245,873; Aug. 21.
Eggs. Fox River Butter Company. 72,088; renewed Jan. 5, 1929.
Fish. George Robinson and Sons. 245,834; Aug. 21; Serial No. 249,924; published June 5, 1928.
Flour, Wheat. Orr Bros. 71,791; renewed Dec. 15, 1928.
Foods. Richardson & Robbins Co. 71,412; renewed Nov. 24, 1928.
Frankfurters, bologna, pressed ham, etc. United Sausage Co. 245,882; Aug. 21.
Fruits and dried fruits, Fresh deciduous. Southern Oregon Sales, Inc. 245,828; Aug. 21; Serial No. 236,344; published Jan. 17, 1928.
Fruits, Fresh citrus. E. P. Porcher. 245,677–8; Aug. 21; Serial Nos. 264,774–5; published June 12, 1928.
Fruits, Fresh citrus. S. & O. Produce Co. 245,814; Aug. 21; Serial No. 265,574; published June 12, 1928.
Fruits, fresh citrus fruits, and fresh vegetables, Fresh deciduous. Nehls & Hubener. 245,689; Aug. 21; Serial No. 264,998; published June 5, 1928.
Hydrostearoleine. Wilson & Co. 245,631; Aug. 21; Serial No. 259,036; published Apr. 10, 1928.
Jellies and preserves, Fruit. Mrs. G. L. Harting, Inc. 245,827; Aug. 21; Serial No. 213,377; published Feb. 7, 1928.
Lettuce, Fresh. Western Vegetable Distributors. 245,812; Aug. 21; Serial No. 265,595; published June 12, 1928.
Macaroni. Atlantic Macaroni Co. 71,274; renewed Nov. 17, 1928.
Meats in tins or jars, Prepared or preserved. Oxo Limited. 245,830; Aug. 21; Serial No. 246,429; published June 12, 1928.
Milk, Condensed. Mohawk Condensed Milk Co. 71,531; renewed Dec. 1, 1928.
Milk, Condensed. New York Condensed Milk Company. 32,258; renewed Dec. 20, 1928.
Oranges, lemons, and grapefruit. Chula Vista Citrus Association. 245,693; Aug. 21; Serial No. 263,461; published June 12, 1928.
Oranges, lemons, and grapefruit. Pomona Fruit Growers Exchange. 245,832; Aug. 21; Serial No. 251,986; published Feb. 14, 1928.
Pork and beans. Joseph Campbell Company. 69,788; renewed July 7, 1928.
Pork hams, bacon, etc. Allied Packers Incorporated. 245,826; Aug. 21; Serial No. 214,573; published June 5, 1928.
Provisions. Swift and Company. 32,420; renewed Jan. 24, 1929.
Shellfish. J. & J. W. Elsworth Co. 245,606; Aug. 21; Serial No. 256,106; published June 5, 1928.
Spices. Gasser Coffee Company. 72,042; renewed Dec 29, 1928.
Vegetables, cantaloupes, and fruits, Fresh. J. E. Cosgrove Fruit Co. 245,792; Aug. 21; Serial No. 261,944; published June 5, 1928.

CLASS 48.

Beverage, Malt. Manitowoc Products Company. 245,738; Aug. 21; Serial No. 264,728; published June 12, 1928.
Beverages. Independent Products Company. 245,767; Aug. 21; Serial No. 264,166; published June 5, 1928.

CLASS 49.

Whisky, brandy, and gin. W. Schlichte. 245,838; Aug. 21; Serial No. 244,474; published June 5, 1928.

CLASS 50.

Dust cloths and covers and lap robes, Vehicle. Cravenette Company. 71,957; renewed Dec. 22, 1928.

ALPHABETICAL LIST OF LABELS.

Arlington. For All Kinds of Pickles. Vogler-Schillo Company. 34,464; Aug. 21.
Burdenwies Barley Malt Sirup. For Barley-Malt Sirup. M. J. Green. 34,452; Aug. 21.
Concord Grape Style Cordial Cherries. For Candy. Frederick W. Lipps Co. 34,456; Aug. 21.
Country Maid. For Butter. Sutherland Paper Company. 34,460; Aug. 21.
Delicia. For Butter. Sutherland Paper Company. 34,461; Aug. 21.
Florida Maid. For Fruit Products. Rutherford Company. 34,459; Aug. 21.
For Dessert-My-T-Fine. For Dessert Preparations. D & C Co. 34,450; Aug. 21.
It's a Bird. For Malt Syrup. Val Blatz Brewing Company. 34,463; Aug. 21.
It's the Durum Wheat that makes Good Macaroni. For Macaroni. Independent Macaroni Co. Inc. 34,455; Aug. 21.
Kitchen Klenzer. For Cleaning Preparation in Finely-Divided Form for Household Use for Cleaning, Scouring, and Polishing Metal, Glass, Woodwork, Machinery, Culinary, and Like Articles, Etc. Fitzpatrick Bros. 34,451; Aug. 21.
Old Gold. For Malt Syrup. Val Blatz Brewing Co. 34,462; Aug. 21.
Red Dot Ant Syrup. For a Preparation for Extermination of Certain Ants That Infest the House. C. B. Hood. 34,453; Aug. 21.
Reichardt's Chocolate Naps. For Candy. Reichardt Cocoa & Chocolate Co. 34,457; Aug. 21.
The Gift of the West. For Candy. Imperial Candy Co. 34,454; Aug. 21.
Vitalime. For Stock and Poultry Feed. River Products Co. 34,458; Aug. 21.
White Cap. For Mints. Stephen F. Whitman & Son, Inc. 34,466; Aug. 21.
Whiting's Gotham Linen. For Stationery. Whiting Paper Company. 34,465; Aug. 21.

ALPHABETICAL LIST OF PRINTS.

A Food—Vital as Sunshine. For Ice Cream. Western Dairy Products Co. 11,183; Aug. 21.
Ajax. For Combs. Plait-Forbes, Inc. 11,180; Aug. 21.
Beech-Nut Chewing Gum, Spearmint. For Chewing Gum. Beech-Nut Packing Company. 11,173; Aug. 21.
Beech-Nut Chewing Gum, Wintergreen. For Chewing Gum. Beech-Nut Packing Company. 11,172; Aug. 21.
Beech-Nut Fruit Flavored Chewing Gum. For Chewing Gum. Beech-Nut Packing Company. 11,175; Aug. 21.
Beech-Nut Licorice Flavored Chewing Gum. For Chewing Gum. Beech-Nut Packing Company. 11,174; Aug. 21.
Beech-Nut Peppermint Chewing Gum. For Chewing Gum. Beech-Nut Packing Company. 11,171; Aug. 21.
Bell Taverns. For Food. Bell Tavern System. 11,176; Aug. 21.
Esberger Wedding Rings Assure Love and Happiness. For Wedding Rings. Esberger Bros. 11,177; Aug. 21.
Flies are Dangerous, Meritine Knocks 'Em Dead. For Insecticide. Hardeman-King Company. 11,178; Aug. 21.
Liberty Root Beer. For Root Beer. Richardson Corporation. 11,181; Aug. 21.
Nicotex. For Preparation for Removing Tobacco and Nicotine Stains from the Skin. Nicotex Company. 11,179; Aug. 21.
U S Shot Shells a Load for Every Purpose a Shell for Every Purse. For U S Shot Shells. U. S. Cartridge Co. 11,182; Aug. 21.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 21ST DAY OF AUGUST, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A T Oil Burner Co. (See Olsen, Carl A., assignor.)
Aber, George B., Cranberry Lake, N. Y. Rotary gas engine. 1,681,454; Aug. 21.
Achenbach, Charles, Manitowoc, Wis. Horn deflector. 1,681,565; Aug. 21.
Addressograph Company. (See Duncan, Joseph S., assignor.)
Aeolian Company, The. (See Smith, Harry M., assignor.)
Akon Safety Razor Co. (See Ansheim, Edward H., assignor.)
Aldrich, Lester K., Sidney, Ohio. Duplicating machine drive and feed. 1,681,652; Aug. 21.
Alexanderson, Charles A., New York, N. Y., assignor to E. W. D. Humphrey, H. W. D. Mileham, and Guranty Trust Company, administrators of Eugene W. Durkee, deceased. Apparatus for covering the openings in perforated covers for containers with paper or like material. 1,681,718; Aug. 21.
Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Spoon or similar article. Des. 76,111; Aug. 21.
Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Spoon or similar article. Des. 76,112; Aug. 21.
Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Spoon or similar article. Des. 76,174; Aug. 21.
Allen, Henry B., assignor to Henry Disston and Sons, Incorporated, Philadelphia, Pa. Alloy steel. 1,681,797; Aug. 21.
Allen, James G., Chicago, Ill. Electric telescopy. 1,681,833; Aug. 21.
Allis, Louis, Company, The. (See Barr, John M., assignor.)
Allmanna Svenska Elektriska Aktiebolaget. (See Ytterberg, Arle, assignor.)
Almy, Cecil B. (See Feaster, E. B., and Almy.)
Altenbach, Otto, Los Angeles, Calif. Combined scissors and shoehorn. 1,681,691; Aug. 21.
American Button & Fastener Co. (See Latham, Albert, assignor.)
American Cable Company. (See Ewins, George W., assignor.)
American Meter Company. (See Diehl, John C., assignor.)
American Milling and Refining Company, The. (See Granthaver, Milton E., assignor.)
American Ornamental Bottle Corporation. (See Mas, George N., assignor.)
American Piano Company. (See Stoddard, Charles F., assignor.)
American Sales Book Company. (See Anderson, James W., assignor.)
American Sales Book Company. (See Bovier, Archie M., assignor.)
American Smelting and Refining Company. (See Hall, Howard W., assignor.)
American Smelting and Refining Company. (See Read, Chester L., assignor.)
American Smelting and Refining Company. (See Read, C. L., and O'Harra, assignors.)
American Telephone and Telegraph Company. (See Binuvelt, William G., assignor.)
American Telephone and Telegraph Company. (See Branson, D. E., and Shanck, assignors.)
American Telephone and Telegraph Company. (See Coggins, Paul P., assignor.)
American Telephone and Telegraph Company. (See McCurdy, Ralph G., assignor.)
American Telephone and Telegraph Company. (See Nyquist, Harry, assignor.)
Amundsen, Adolf. (See Kortepeter, R. E., and Amundsen.)
Anderegg, Gustavus A., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Manufacture of cables. 1,681,566; Aug. 21.
Andersen, Alf B., & Starr, Inc. (See Andersen, Alf B., as- & Starr, Inc., New York, N. Y. Book end. Des. 76,113; Aug. 21.
Andersen, Alf B., & Starr, Inc. (See Andersen, Alf B., assignor.)
Andersen, Niels C., assignor to The Goss Printing Press Co., Chicago, Ill. Delivery apparatus for printing presses. 1,681,162; Aug. 21.
Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. Automatic switching system. 1,681,158; Aug. 21.
Anderson, Hilton J., St. Paul, Minn. Patch vulcanizer. 1,681,455; Aug. 21.
Anderson, James O., Eugene, Oreg. Spark arrester. 1,681,456; Aug. 21.

Anderson, James W., New York, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifolding book. 1,681,159; Aug. 21.
Ansheim, Edward H., Brooklyn, assignor to Akon Safety Razor Co., Inc., New York, N. Y. Corn razor. 1,681,207; Aug. 21.
Anthony Company, The. (See Morse, A. W., and Wollheim, assignors.)
Anthony, William C., Streator, Ill. Oil burner. 1,681,160; Aug. 21.
Appley, Lena G., St. Paul, Minn. Mosaic toy. 1,681,759; Aug. 21.
Arends, Albert A., Redwood City, Calif. Door-holding tool. 1,681,834; Aug. 21.
Arnold, Albert W. (See Feaster, E. B., and Arnold.)
Arnold, Frank D., Humboldt, Iowa. Combined and amplifying megaphone and reflex resonator for sound-emitting machines. 1,681,208; Aug. 21.
Asiatic Petroleum Company. (See Lawson, Joseph, assignor.)
Asleson, Albert, Redwood Falls, Minn. Cataract absorber. 1,681,653; Aug. 21.
Asleson, Albert, Redwood Falls, Minn. Cataract absorber. 1,681,654; Aug. 21.
Asplund, William E., Deer Park, Wis. Rock-gathering machine. 1,681,457; Aug. 21.
Atkinson, Herbert E., Rochester, N. Y. Valve. 1,681,209; Aug. 21.
Atlantic Aircraft Corporation. (See Fokker, Anthony H. G., assignor.)
Austin, Herbert, Bromsgrove, England. Seat for motor cars and like purposes. 1,681,163; Aug. 21.
Automatic Electric Inc. (See Erickson, John, assignor.)
Automatic Electric Inc. (See Lomax, Clarence E., assignor.)
Automatic Electric Inc. (See Wicks, John, assignor.)
Auto-Meter Co. Inc. (See Titcomb, Lee R., assignor.)
Avera, Arch U., Birmingham, Ala. Transmission of power to vehicles. 1,681,385; Aug. 21.
Ayers, Harris W., Burbank, Calif. Incinerator. Des. 76,114; Aug. 21.
B. V. D. Company, The. (See Meyers, Norman G., assignor.)
Backus, John C., Smethport, Pa. Golf practicing machine. 1,681,317; Aug. 21.
Bady, Louis, and S. Levinson, Brooklyn, N. Y. Adjustable holding fixture. 1,681,273; Aug. 21.
Bagasse Products Corporation. (See de la Roza, Joaquin J., sr., assignor.)
Baird, Raymond C., Omaha, Nebr., and E. E. Snell, Mount Clemens, Mich. Radiocircuit. 1,681,274; Aug. 21.
Bakelite Gesellschaft m. b. H. (See Seebach, Fritz, assignor.)
Baker Brothers, Inc. (See Hallenbeck, George E., assignor.)
Baldwin, Gerald L., San Diego, Calif. Lawn sprinkler. 1,681,719; Aug. 21.
Baldwin, Nathaniel, East Mill Creek, Utah. Telephone receiver. 1,681,161; Aug. 21.
Banks, Reeve H., Pittsburgh, Pa. Receptacle. 1,681,210; Aug. 21.
Banschbach, Edward A., Chicago, Ill. Adjustable file and holder. 1,681,318; Aug. 21.
Barclay, William R., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe. 1,681,211; Aug. 21.
Barnhart, Joseph R., assignor to W. M. Scott, Cleveland, Ohio. Synchronous electric vibrator. 1,681,720; Aug. 21.
Barr, John M., assignor to The Louis Allis Company, Milwaukee, Wis. Dynamo-electric-machine stator. 1,681,914; Aug. 21.
Barr, John M., assignor to The Louis Allis Company, Milwaukee, Wis. Dynamo-electric-machine stator. 1,681,915; Aug. 21.
Barr, John M., assignor to The Louis Allis Company, Milwaukee, Wis. Dynamo-electric-machine stator. 1,681,916; Aug. 21.
Barrett Bindery Company, The. (See Smith, Arthur, assignor.)
Barrett, Glenn J., Evanston, assignor to Portable Adding Machine Company, Chicago, Ill. Accumulator-control means of adding machines. 1,681,567; Aug. 21.
Barshell, David. (See Barshell, Frederick B., assignor.)
Barshell, Frederick B., assignor of one-half to D. Barshell, New York, N. Y. Motor vehicle and steering device. 1,681,893; Aug. 21.

Bartlett, Linton G., Waukegan, assignor to William L. O'Connel, Chicago, Ill. Motor vehicle. 1,681,319; Aug. 21.

Bascour, Firmin, assignor to Societe Anonyme Cribla, Brussels, Belgium. Apparatus for washing and sorting coal and the like. 1,681,164; Aug. 21.

Bassett, Harry P., Cynthiana, Ky. Removing and recovering volatile plasticizers from celluloid and the like. 1,681,692; Aug. 21.

Bastian, James G., Shelton, Nebr. Combined high and nursery chair. Des. 76,115; Aug. 21.

Bates, Adelmer M., and C. G. Kronmiller, assignors, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill. Marking device. 1,681,275; Aug. 21.

Bates Valve Bag Corporation. (See Bates, A. M., and Kronmiller, assignors.)

Battey, Sumter B., New York, N. Y. Hair waving or curling device. 1,681,511; Aug. 21.

Bausch & Lomb Optical Company. (See Montgomery, Robert J., assignor.)

Bayer, Frank A. (See Bayer, Leo J. and F. A.)

Bayer, Leo J. and F. A., St. Louis, Mo. Soot blower. 1,681,165; Aug. 21.

Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, assignors to The Beardsley & Piper Company, Chicago, Ill. Molding machine. 1,681,386; Aug. 21.

Beardsley & Piper Company, The. (See Beardsley, E. O., and Piper, assignors.)

Beck, Frederic, Neuilly, assignor to Societe Generale des Mandrins "Brevets Beck," Paris, France. Automatic chuck. 1,681,166; Aug. 21.

Beck, Harold E., Chicago, Ill. Variable condenser. 1,681,907; Aug. 21.

Beck, Joseph C. (See Kessler, Frederick M., assignor.)

Becker, Frank W., Ocean Park, Calif. Game apparatus. 1,681,693; Aug. 21.

Beldam, George W., Ealing, England. Golf or similar game ball. 1,681,167; Aug. 21.

Bell-Irving, Robin, and P. Sandwell, Power River, British Columbia, Canada. Condensate-removing system. 1,681,344; Aug. 21.

Bell, James H. (See Beyer, Arthur J. A., assignor.)

Bell, Louis, deceased; S. G. Bell, administratrix, Newton, and W. G. Wolfe, Greenwood; said S. G. Bell assignor, by mesne assignments, to S. G. Bell, Newton, Mass. Fluid filter for the absorption of certain radiations. 1,681,276; Aug. 21.

Bell, Sarah G., administratrix. (See Bell, L., and Wolfe.)

Bell Telephone Laboratories, Incorporated. (See Dahl, Jack F., assignor.)

Bell Telephone Laboratories, Incorporated, et al. (See Locke, G. A., and Haglund, assignors.)

Bell Telephone Laboratories, Incorporated. (See Williams, Samuel B., assignor.)

Bellot Iron Works. (See Berry, Earl E., assignor.)

Bendix Brake Company. (See Thomas, George J., assignor.)

Benedict, T. N., Mfg. Co. (See Saunders, Albert F., assignor.)

Benjamin, Emanuel V., assignor to Myles Salt Company, Limited, New Orleans, La. Apparatus for the manufacture of sodium sulphate and hydrochloric acid. 1,681,760; Aug. 21.

Benton Harbor Manufacturing Corporation. (See Cayo, Edward L., assignor.)

Benzing, Samuel G., Grand Rapids, Minn. Egg-candling device. 1,681,387; Aug. 21.

Beougher, Lawrence E., Lynwood, Calif. Automobile jack. 1,681,633; Aug. 21.

Bergl, Klemens, Berlin, and Walther Dietrich, Berlin-Friedenau, assignors to the firm: Max Gottlieb, Berlin, Germany. The preparation of a liquid for rinsing the mouth and means for applying it. 1,681,320; Aug. 21.

Bergstein, Samuel, assignor to The Interstate Folding Box Company, Middletown, Ohio. Making paper boxes and the like. 1,681,212; Aug. 21.

Bernaudin, Henri, Cosne-sur-Loire, France. Hand-operated diestock. 1,681,655; Aug. 21.

Berry, Earl E., Beloit, Wis., assignor to Beloit Iron Works. Self oiling and aligning bearing. 1,681,388; Aug. 21.

Berthold, Rudolf G. (See Rüdenberg, R., Berthold, and Donat.)

Bethlehem Shipbuilding Corporation. (See Faickney, Robert, assignor.)

Bethlehem Steel Company. (See Dillon, J. H., and Fairweather, assignors.)

Beyer, Arthur J. A., assignor to J. H. Bell, Philadelphia, Pa. Manufacturing knitting needles. 1,681,512; Aug. 21.

Bicks, Jean W., Evanston, Ill., assignor to Spenced Perfume Company, South Bend, Ind. Bottle or similar container. Des. 76,116; Aug. 21.

Biddle, John M., assignor to Union Special Machine Company, Chicago, Ill. Looper support for sewing machines. 1,681,458; Aug. 21.

Biette, Henry C., Detroit, assignor of twenty per cent to J. S. Longtin, Wyandotte, and ten per cent to E. C. Schaffer, Detroit, Mich. Coffee percolator. 1,681,656; Aug. 21.

Binder, Gottfried H., Orange, N. J. Spot anchor. 1,681,634; Aug. 21.

Bird, Lee, Rock Springs, Ga. Combined groundworking and pulverizing machine. 1,681,835; Aug. 21.

Bischan, William, Bronx, assignor to Bot-Lok Co. Inc., New York, N. Y. Milk-bottle lock. 1,681,213; Aug. 21.

Bixby, Walter. (See Hathaway, E. F., and Bixby.)

Bixby, Walter, assignor to Shawmut Engineering Company, Boston, Mass. Bearing for demountable spools. 1,681,894; Aug. 21.

Blair, Robert S., Stamford, Conn. Construction for flatirons. 1,681,214; Aug. 21.

Blake, Belden H., Canton, Ohio. Golf pad. 1,681,389; Aug. 21.

Blanchard, Julius M., Oak Park, assignor of one-half to J. W. Mabbs, Chicago, Ill. Fireplace. 1,681,606; Aug. 21.

Blasl, Harvey D., Detroit, Mich. Safety aeroplane. 1,681,761; Aug. 21.

Blauvelt, William G., New York, N. Y., assignors to American Telephone and Telegraph Company. Telephone-exchange system. 1,681,215; Aug. 21.

Blieberger, Charles, assignor of forty-five per cent to A. A. Thomas, New York, N. Y. Apparatus for recording and reproducing sound. 1,681,721; Aug. 21.

Bliss, Donald M., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y. Electric-motor control. 1,681,459; Aug. 21.

Bloodhart, John W., assignor to Midland Chemical Laboratories, Inc., Dubuque, Iowa. Liquid-soap dispenser. Des. 76,117; Aug. 21.

Bock, Max M., Hamburg Germany. Planet gear. 1,681,694; Aug. 21.

Boehringer, John A., Springfield, assignor to Star Chandelier Co., Inc., New York, N. Y. Hanging lighting fixture. Des. 76,118; Aug. 21.

Böhm, Otto, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Arrangement for governing speed of asynchronous motors. 1,681,568; Aug. 21.

Bohn Aluminum & Brass Corporation. (See Nelson, Adolph L., assignor.)

Bohnsack, John A. (See Hauserman, E. F., Mowery, and Bohnsack.)

Boka, George, San Diego, Calif. Shaving brush. 1,681,836; Aug. 21.

Bold, Frederick W., Chelsea, assignor to C. H. Pearson, Brookline, Mass. Time fuse for aerial bombs. 1,681,390; Aug. 21.

Booth, Byron C., Muskegon Heights, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Spring hinge for toilet seats. 1,681,277; Aug. 21.

Bot-Lock Co. Inc. (See Bischan, William, assignor.)

Bovier, Archie M., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Record strip. 1,681,168; Aug. 21.

Bovier, Archie M., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Composite manifolding strip. 1,681,513; Aug. 21.

Bowen, William S., Westfield, N. J. Reaction turbine. 1,681,607; Aug. 21.

Bowers, Augustus W., and C. N. Prouty, Spencer, Mass. Double-welt shoe. 1,681,279; Aug. 21.

Boynton, Garwood T., assignor of one-half to M. L. Hahn, Dayton, Ohio. Pneumatically-controlled air valve. 1,681,278; Aug. 21.

Brand, Frederick F., Pittsfield, Mass., assignor to General Electric Company. Protective apparatus. 1,681,514; Aug. 21.

Brandt, David G., Westfield, N. J., assignor to Doherty Research Company, New York, N. Y. Process and apparatus for treating oil. 1,681,321; Aug. 21.

Brandt, William F., assignor to Wayne Company, Fort Wayne, Ind. Foot valve. 1,681,169; Aug. 21.

Bransky, Oscar E., assignor to Standard Oil Company, Whiting, Ind. Oil-soluble naphthenic compound. 1,681,657; Aug. 21.

Branson, David E., Bloomfield, N. J., and R. B. Shanck, Flushing, N. Y., assignors to American Telephone and Telegraph Company. Composite set. 1,681,216; Aug. 21.

Branthaver, Milton E., Shadygrove, Pa., assignor to The American Milling and Refining Company. Apparatus for the treatment of ores. 1,681,695; Aug. 21.

Branthaver, Milton E., Shadygrove, Pa., assignor to The American Milling and Refining Company. Liquid treatment of roasted ores. 1,681,696; Aug. 21.

Bratt, Harry C., Dayton, Ohio. Golf tee or the like. 1,681,391; Aug. 21.

Breton, Jules L., Bellevue, France. Dish washing, sterilizing, and drying machine. 1,681,839; Aug. 21.

Brewster, Oswald C., Casper, Wyo., assignor to Standard Oil Company, Whiting, Ind. Apparatus for converting hydrocarbon oils. 1,681,658; Aug. 21.

Broch, John, Corona, N. Y. Hatrack. Des. 76,119; Aug. 21.

Brooks Engineering Corporation. (See Brooks, Stephen H. assignor.)

Brooks, Stephen H., Los Angeles, Calif., assignor to Brooks Engineering Corporation. Safety valve for storage tanks. 1,681,697; Aug. 21.

Brooks, Stephen H., assignor to Brooks Engineering Corporation, Los Angeles, Calif. Flame arrester. 1,681,698; Aug. 21.

Brouse, William H. D., Toronto, Ontario, Canada. Rotary pump. 1,681,392; Aug. 21.

Brown & Bailey Company. (See Keppler, Albert E., assignor.)

Brown, James C., assignor to E. Frederics, Inc., New York, N. Y. Hair-treating method and composition. 1,681,170; Aug. 21.

Bruce, Thomas M., Calumet, Okla. Cotton-gin-breast-actuating device. 1,681,837; Aug. 21.

Bruckner, Robert E., Hastings-on-Hudson, assignor to Doherty Research Company, New York, N. Y. Isothermal air compressor. 1,681,280; Aug. 21.

Brueck, Joseph, New York, N. Y. Bowl with wrist support. 1,681,569; Aug. 21.

Bruehl, Lawrence. (See Otto, S., and Bruehl.)

Bruhn, Friedrich W. G., Berlin-Wilmersdorf, Germany. Recording device. 1,681,460; Aug. 21.

Brunswick-Balke-Collender Company, The. (See Booth, Byron C., assignor.)

Brutto, Frank. (See Garllardi S., and Brutto.)

Bryant, Roderick W., Omaha, Nebr. Rerailing block. 1,681,281; Aug. 21.

Buchli, Jacob, Winterthur, Switzerland. Driving gear for electrically-driven locomotives. 1,681,171; Aug. 21.

Buckham, George T. (See Dawson, A. T., and Buckham.)

Buckley, Oliver E., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Submarine cable. 1,681,515; Aug. 21.

Buell, Roy D. (See Flewelling, Edmund T., assignor.)

Builders Iron Foundry. (See Connet, Frederick N., assignor.)

Bunker, Darius W., Quincy, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Composite heel. 1,681,217; Aug. 21.

Burbank, Carrie G. (See Williams, Clarence J., assignor.)

Burdett, James H., Flossmoor, Ill. Rack. Des. 76,120; Aug. 21.

Burdick Corporation, The. (See Kull, Andrew A., assignor.)

Burgess, C. F., Laboratories, Inc. (See Schorger, Arlie W., assignor.)

Burgess, Louis, Bayonne, N. J., assignor to Standard Oil Development Company. Refining oils. 1,681,895; Aug. 21.

Burke, Alfred W., Pelham Manor, N. Y. Circuit controller. 1,681,722; Aug. 21.

Burns, Katherine E., assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 76,121; Aug. 21.

Burrage, Albert C. (See Heuser, Ralph V., assignor.)

Burroughs Adding Machine Company. (See Racz, Ernest, assignor.)

Burton, Isaac F., deceased; M. E. Burton, executrix, assignor to Visualatone Company of America, Philadelphia, Pa. Spring motor. 1,681,393; Aug. 21.

Burton, Manie E., executrix. (See Burton, Isaac F.)

Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Support-arm bracket. 1,681,462; Aug. 21.

Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Safety guard. 1,681,463; Aug. 21.

Butner, William R., assignor of one-third to G. R. Magee, Yerington, Nev. Clothespin. 1,681,461; Aug. 21.

Byrnes, Clarence P., trustee. (See James, Joseph H., assignor.)

C. H. C. Co., The. (See Hapgood, Clarence H., assignor.)

Caldwell, Edward F., & Co. Inc. (See Klehr, William, assignor.)

Caneto, Leon, assignor to Modern Foundry and Pattern Works, Oakland, Calif. Clothes-washing-machine agitator. 1,681,464; Aug. 21.

Caminez, Harold, Farmingdale, N. Y. Engine mounting. 1,681,219; Aug. 21.

Carlson, Alvin E., Nevis, Minn. Towel dispensing and storage cabinet. 1,681,840; Aug. 21.

Carlson, Edwin E., and L. A. Stend, Chester, Pa. Warp-dyeing machine. 1,681,516; Aug. 21.

Carlson, Frank W., Chicago, Ill. Floor-drain valve. 1,681,394; Aug. 21.

Carlson, Fritz N., Minneapolis, Minn. Shelf fixture. 1,681,218; Aug. 21.

Carman, John R. (See Johnston, W. B., and Carman.)

Carrier, Albert H., Asheville, N. C. Casement-window attachment. 1,681,798; Aug. 21.

Carter, John D., Lansdowne, Pa. Waterproof cementitious composition. 1,681,570; Aug. 21.

Case, James W. (See Whitelock, J. W., and Case.)

Cave, Henry, Springfield, Mass., assignor to The Fuller Brush Company, Hartford, Conn. Washing machine. 1,681,322; Aug. 21.

Cayo, Edward L., Buchanan, assignor to Benton Harbor Manufacturing Corporation, Berrien County, Mich. Toy boat. 1,681,465; Aug. 21.

Chance, A. Bishop. (See Clark, Charles L., assignor.)

Chayes Dental Instrument Corporation. (See Chayes, H. E. S., and Jurgensen, assignors.)

Chayes, Herman E. S., New York, N. Y. Removable denture. 1,681,323; Aug. 21.

Chayes, Herman E. S., and August P. Jurgensen, assignors, by mesne assignments, to Chayes Dental Instrument Corporation, New York, N. Y. Dental instrument. 1,681,324; Aug. 21.

Chicago Fuse Mfg. Company. (See Johnson, C. A., and Harland, assignors.)

Chicago Pneumatic Tool Company. (See Stevens, Edward W., assignor.)

Chicago Railway Equipment Company. (See Busse, Edwin G., assignor.)

Christen, Victor H., Detroit, Mich. Windshield wiper. 1,681,395; Aug. 21.

Ciccone, Anthony, Fort Wayne, Ind. Key pad for wind instruments. 1,681,220; Aug. 21.

Clark, Alfred T., H. A. Leonhauser, and J. R. Jester, Baltimore, Md. Air-pipe connection for articulated cars. 1,681,659; Aug. 21.

Clark, Charles L., Pittsburgh, Pa., assignor to A. B. Chance, Centralia, Mo. Combined pole-line wrench and hammer. Des. 76,122; Aug. 21.

Clark, Charles W., Brooklyn, N. Y. Game apparatus. 1,681,799; Aug. 21.

Clark, Frank W. (See Travers, M. W., and Clark.)

Clark, John H., Seattle, Wash. Deflating indicator. 1,681,608; Aug. 21.

Clas, Angelo R., Toledo, Ohio. Motion-picture apparatus. 1,681,723; Aug. 21.

Climax Engineering Company. (See Waters, Harry H., assignor.)

Clough, Newsome H., London, England, assignor to Radio Corporation of America. Damping oscillating or alternating current circuit. 1,681,517; Aug. 21.

Clow, James B., & Sons. (See Daily, Eugene V., assignor.)

Clutter, Bird C., Akron, Ohio, assignor, by mesne assignments, to Clutter-Wagner, Inc. Ditcher. 1,681,282; Aug. 21.

Clutter-Wagner, Inc. (See Clutter, Bird C., assignor.)

Coates, Jasper C., Santa Paula, Calif. Tool-joint lock. 1,681,699; Aug. 21.

Cocho, Frederick S., Columbus, Ohio. Novelty pistol. 1,681,172; Aug. 21.

Cocking, Richard, Waltham, Mass. Textile fabric. Des. 76,123; Aug. 21.

Coggins, Paul P., Newark, N. J., assignor to American Telephone and Telegraph Company. Telephone-exchange system. 1,681,221; Aug. 21.

Cohen, James, Northampton, Mass. Roller skate. 1,681,841; Aug. 21.

Coleston, Claude E., McKittrick, Calif. Bailer. 1,681,660; Aug. 21.

Collen, Daniel, Tilston, Manitoba, Canada. Device for use in writing. 1,681,842; Aug. 21.

Commerce Guardian Trust and Savings Bank, Trustee, The (See Replogle, Daniel B., assignor.)

Compton, Otto L., Olympia, Wash. Automobile safety brake equalizer. 1,681,518; Aug. 21.

Conklin, John E., Brooklyn, N. Y. Faucet connection. 1,681,838; Aug. 21.

Connet, Frederick N., assignor to Builders Iron Foundry, Providence, R. I. Proportionate meter. 1,681,762; Aug. 21.

Conzelman, John E., South Pasadena, Calif. Pile and making same. 1,681,609; Aug. 21.

Cook, Fred W., assignor to Perfection Cooler Company, Michigan City, Ind. Liquid-cooler bottle. Des. 76,124; Aug. 21.

Cook, Paul, Linden, Md. Razor. 1,681,396; Aug. 21.

Cook, Paul, Seattle, Wash. Razor. 1,681,466; Aug. 21.

Coons, Burton C., assignor to Coons Manufacturing Company, Inc., Rochester, N. Y. Machine for removing seed cells from fruit such as apples. 1,681,467; Aug. 21.

Coons Manufacturing Company. (See Coons, Burton C., assignor.)

Cooper Hewitt Electric Company. (See Millar, George A., assignor.)

Cooper, Simon, Brooklyn, N. Y. Electrical sostenuto piano. 1,681,635; Aug. 21.

Copeman Laboratories Company. (See Copeman, Lloyd G., assignor.)

Copeman, Lloyd G., Flint, Mich. Refrigerator cabinet and controlling the temperature therein. 1,681,398; Aug. 21.

Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Refrigerator or cabinet. 1,681,397; Aug. 21.

Copeman, Lloyd G., Flint, assignor to Copeman Laboratories Company, Detroit, Mich. Refrigerator cabinet and controlling and operating the same. 1,681,399; Aug. 21.

Cory, Chas., & Son, Incorporated. (See Jones, J. S., and Mead, assignors.)

Cotton, Walter H., assignor to Union Draft Gear Company, Chicago, Ill. Draft gear. 1,681,222; Aug. 21.

Craighead, James R., Schenectady, N. Y., assignor to General Electric Company. Regulating system. 1,681,519; Aug. 21.

Crandall, Joel E. (See Damm, Walter, assignor.)

Crouse-Hinds Company. (See Pearson, J. T., and Olley, assignors.)

Curry, J. P., Mfg. Co. (See Foulder, Henry B., assignor.)

Cutler-Hammer Mfg. Co., The. (See Russell, Frank J., assignor.)

D. & R. Auto Products Company. (See Demand, Joseph, assignor.)

Dahl, Jack F., Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N .Y. Trunk circuits. 1,681,520; Aug. 21.

Daily, Eugene V., assignor to James B. Clow & Sons, Chicago, Ill. Radiator. 1,681,173; Aug. 21.

Daly, John A., New Rochelle, N. Y. Cleaning and burnishing metallic powders. 1,681,521; Aug. 21.

Damm, Walter, assignor of one-half to J. E. Crandall, Paterson, N. J. Adjustable curtain support. 1,681,522; Aug. 21.

Dangel, Louis. (See Saint Ogan, Alain, assignor.)

Darlo Company. (See Parker, Samuel D., assignor.)

Darlo Company. (See Pike, Albert, assignor.)

Dawley, James C., assignor to The Joyce-Cridland Company, Dayton, Ohio. Lifting jack. 1,681,283; Aug. 21.

Dawson, Arthur T., and George T. Buckham, assignors to Vickers Limited, Westminster, London, England. Recoil and run-out apparatus for ordnance. 1,681,325; Aug. 21.

Dayton, James M., Torrington, Conn. Quick-acting gate valve. 1,681,468; Aug. 21.

De Costa, Maria S. (See Maximoff, J., De Costa, and Krebs.)

De la Roza, Joaquin J., sr., Brooklyn, assignor to Bagasse Products Corporation, New York, N. Y. Producing fibrous thread. 1,681,223; Aug. 21.

Delco-Light Company. (See Hardman, Frederick J., assignor.)

De Leeuw, Adolph L., Plainfield, N. J. Individual power feed for multiple tapping machines. 1,681,326; Aug. 21.

De-Lite-Us Spring Clasp Corporation, The. (See Duchesneau, Joseph, assignor.)

Demand, Joseph, New York, assignor to D. & R. Auto Products Company, Inc., Jamaica, N. J. Windshield-wiper adjuster. 1,681,724; Aug. 21.

Dent, Helene, administratrix. (See Dent, Herbert A.)

Dent, Herbert A., Chicago, Ill., deceased; H. Dent, administratrix of said H. A. Dent. Automobile radiator cap. 1,681,843; Aug. 21.

Deppeler, John H., Weehawken, N. J., assignor to Metal & Thermit Corporation, Carteret, N. J. Apparatus for welding rails under traffic. 1,681,571; Aug. 21.

Detroit Vapor Stove Company. (See Sherman, A. G., and Meadows, assignors.)

De Vito, Louis, Cleveland, Ohio. Dough kneader. 1,681,844; Aug. 21.

Dickie, Douglas P., assignor to The Western Union Telegraph Company, New York, N. Y. Dry spot cross-arm terminal box. 1,681,284; Aug. 21.

Diehl, John C., Erie, Pa., assignor to American Meter Company, Inc., New York, N. Y. Orifice meter. 1,681,174; Aug. 21.

Dietrich, Walther. (See Bergl, K., and Dietrich.)

Di Gaudio, John, Brooklyn, N. Y., assignor to Modern Lighting Fixture Co., Inc. Lighting-fixture arm or article of analogous nature. Des. 76,125; Aug. 21.

Di Gaudio, John, Brooklyn, N. Y., assignor to Modern Lighting Fixture Co., Inc. Lighting-fixture brace or article of analogous nature. Des. 76,126; Aug. 21.

Dilley, Fred M., and C. F. Hallberg, Oelwein, Iowa. Pressure oil can. 1,681,845; Aug. 21.

Dillon, Joseph H., and H. H. Fairweather, Contesville, Pa., assignors to Bethlehem Steel Company. Closure. 1,681,661; Aug. 21.

Disston, Henry, and Sons, Incorporated. (See Allen, Henry B., assignor.)

Doherty Research Company. (See Brandt, David G., assignor.)

Doherty Research Company. (See Bruckner, Robert E., assignor.)

Dominion Cartridge Company. (See Johnson, Edwin J., assignor.)

Donat, Karl. (See Rüdenberg, R., Berthold, and Donat.)

Donato, William, Detroit, Mich. Drier. 1,681,175; Aug. 21.

Donnelly, James A., Brooklyn, N. Y., assignor to Warren Webster & Company. Steam heating system. 1,681,725; Aug. 21.

Dougan, Robert, Dallas, Tex. Locking device for motor-vehicle tires and rims. 1,681,469; Aug. 21.

Douglass, Roy D., Minneapolis, Minn. Piston-ring expanding and contracting pliers. 1,681,662; Aug. 21.

Downey, Patrick V., and C. H. Wendroff, Denver, Colo. Apparatus for heating oil wells. 1,681,523; Aug. 21.

Drees, Frank A., assignor, by mesne assignments, of one-half to F. D. Turner, Pawhuska, Okla. Fitting. 1,681,470; Aug. 21.

Dreifuss, Audrey, et al. (See Schmid, Werner, assignor.)

Dreifuss, Emil, et al. (See Schmid, Werner, assignor.)

Dreifuss, Jerome, et al. (See Schmid, Werner, assignor.)

Dreifuss, Louis, et al. (See Schmid, Werner, assignor.)

Dreifuss, Sybille, et al. (See Schmid, Werner, assignor.)

Drucklieb, Jeanne L., New York, N. Y. Shaker for salt and pepper or similar article of manufacture. Des. 76,127; Aug. 21.

Dubilier Condenser Corporation. (See Goodman, William H., assignor.)

Du Brie, Stanley R., Grosse Pointe Park, Mich. Heater. 1,681,726; Aug. 21.

Duchesneau, Joseph, Leominster, Mass., assignor, by mesne assignments, to The De-Lite-Us Spring Clasp Corporation, New York, N. Y. Flying top. 1,681,524; Aug. 21.

Dufour, Léon, Versoix, Switzerland. Multiple diffusing nozzle. 1,681,176; Aug. 21.

Duncan, Joseph S., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Printing machine. 1,681,525; Aug. 21.

Du Pont, Eleuthere P., Montchanin, Del. Braking mechanism for automobiles. 1,681,224; Aug. 21.

Dura Company, The. (See Nicholson, Stanley W., assignor.)

E. & N. Manufacturing Company, The. (See Newton, M. C., and Gremling, assignors.)

Eames, George M., Bridgeport, Conn., and I. F. Webb, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Power table for sewing machines. 1,681,896; Aug. 21.

Earl, Hermon, Piqua, Ohio. Golf bag. 1,681,225; Aug. 21.

Eaton, Frank, Des Moines, Iowa. Shear-sharpener vise. 1,681,763; Aug. 21.

Eaton, Horace M., Dennis, assignor of one-half to G. L. Preble, Lynn, Mass. Boot and shoe stiffener. 1,681,327; Aug. 21.

Eckhardt, Fritz, and M. Hohnekamp, Eisenach, Germany. Safety device for series-connected incandescent electric lamps. 1,681,471; Aug. 21.

Eckroat, Emanuel, Shenandoah, Pa. Chain fastener. 1,681,526; Aug. 21.

Edelson, Leon. (See Lee, F. W., and Pullen, assignors.)

Edwards, Airah B., Abilene, Tex. Hose-winding-machine casing for use at filling stations, garages, and other places. Des. 76,128; Aug. 21.

Edwards, Wilson D., Terre Haute, Ind., assignor to The Herpicide Company, Detroit, Mich. Bottle. Des. 76,129; Aug. 21.

Edwards, Wilson D., assignor to Turner Glass Company, Terre Haute, Ind. Bottle. Des. 76,130; Aug. 21.

Egan, George F., Jersey City, N. J. Display device. 1,681,527; Aug. 21.

Einfeldt, Ernest E., assignor, by mesne assignments, to French & Hecht, Inc., Davenport, Iowa. Making metal wheel rims. 1,681,177; Aug. 21.

Eisele, Julius. (See Griessbach, R., and Eisele.)

Elliott, Alexander, Los Angeles, Calif. Recovering copper from its ores. 1,681,528; Aug. 21.

Elliott-Fisher Company. (See Thieme, Otto, assignor.)

Ellis Adding Typewriter Company. (See Ens, Emil J., assignor.)

Elmen, Gustaf W., Leonia, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transformer. 1,681,573; Aug. 21.

Emerson, Frederic M., assignor to Emerson & Norris Company, Boston, Mass. Artificial cast stone and producing the same. 1,681,727; Aug. 21.

Emerson & Norris Company. (See Emerson, Frederic M., assignor.)

Engelbart, Christian C., Rochester, Minn. Drainage device for window screens. 1,681,846; Aug. 21.

Ens, Emil J., assignor to Ellis Adding Typewriter Company, Newark, N. J. Selective multiple tabulating stop. 1,681,472; Aug. 21.

Erickson, John, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Electromagnetic relay. 1,681,473; Aug. 21.

Erickson, Ole P., Wildwood, N. J. Valve. 1,681,328; Aug. 21.

Erikson, Harry, Lowell, Mass. Vulcanizing device for tire casings. 1,681,178; Aug. 21.

Erskine, Thomas C., Columbus, Ohio, assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of shoes. 1,681,226; Aug. 21.

Eversbed & Vignoles, Limited. (See Rolfe, George B., assignor.)

Ewing, Clement L., Jeromeville, Ohio. Truss structure. 1,681,572; Aug. 21.

Ewins, George W., Belleville, N. J., assignor to American Cable Company, Inc. Attachment for strands, ropes, or cables. 1,681,285; Aug. 21.

Fabrey, William H., assignor to Weber Electric Company, Schenectady, N. Y. Fuse plug. 1,681,847; Aug. 21.

Fagan, Charles D., Sharon, assignor to Sharpsville Boiler Works Co., Sharpsville, Pa. Gasoline-meter casing. Des. 76,131; Aug. 21.

Faickney, Robert, Glasgow, Scotland, assignor to Bethlehem Shipbuilding Corporation, Quincy, Mass. Auxiliary fuel-oil heater. 1,681,663; Aug. 21.

Fairweather, Howard H. (See Dillon, J. H., and Fairweather.)

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Rotary compressor. 1,681,574; Aug. 21.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-valve device. 1,681,575; Aug. 21.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,681,576; Aug. 21.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,681,577; Aug. 21.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,681,578; Aug. 21.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake cylinder. 1,681,579; Aug. 21.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Angle-cock device. 1,681,580; Aug. 21.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Angle-cock device. 1,681,581; Aug. 21.

Farmers' National Bank, trustee. (See French, C. A., and Waterman, assignors.)

Farmers' National Bank, trustee. (See Waterman, Russell R., assignor.)

Farney, Asa W., Clay County, Mo. Dike or revetment. 1,681,638; Aug. 21.

Fassbauer, Walter H., Philadelphia, Pa. Lintel. 1,681,286; Aug. 21.

Feaster, Edward B., Lowell, and C. B. Almy, Marblehead, assignors to Saco-Lowell Shops, Newton Upper Falls, Mass. Spindle. 1,681,764; Aug. 21.

Feaster, Edward B., and A. W. Arnold, Lowell, assignors to Saco-Lowell Shops, Boston, Mass. Spindle. 1,681,800; Aug. 21.

Feaster, Edward B., Lowell, and C. B. Almy, Marblehead, assignors to Saco-Lowell Shops, Newton Upper Falls, Mass. Spindle. 1,681,801; Aug. 21.

Figge, Carroll C., Chicago, Ill. Roof and shingle securing means. 1,681,765; Aug. 21.

Fitch, Claude E., Wilmette, Ill. Vacuum tube. 1,681,329; Aug. 21.

Fjelstad, Carl A., Minneapolis, Minn. Heating, cooling, and humidifying system for buildings. 1,681,582; Aug. 21.

Flath, Otto S. (See Lollis, Benjamin F., assignor.)

Flewelling, Edmund T., Highland Park, assignor to R. D. Buell, Chicago, Ill. Socket. 1,681,330; Aug. 21.

Fokker, Anthony H. G., Amsterdam, Netherlands, assignor to Atlantic Aircraft Corporation. Airplane. 1,681,331; Aug. 21.

Folmer, William F., Rochester, N. Y. Carton. 1,681,700; Aug. 21.

Fort Howard Paper Company. (See Hansen, Emil J., assignor.)

Foulder, Henry B., Glenbrook, assignor to J. P. Curry Mfg. Co., Inc., Stamford, Conn. Machine for tying wire ties. 1,681,610; Aug. 21.

Fox, Julius S., Cleveland, Ohio. Launching and landing platform. 1,681,474; Aug. 21.

Fox, Ralph P., Harrisburg, Pa. Dirigible airship. 1,681,848; Aug. 21.

Frandsen, Peter, Monett, Mo. Safety switch stand. 1,681,475; Aug. 21.

Frederics, E., Inc. (See Brown, James C., assignor.)

Fremont, George R., Richmond, Va. Radio tuning mechanism. 1,681,529; Aug. 21.

French, Charles A., and R. R. Waterman, Long Beach, Calif., assignors to Farmers National Bank, trustee, Greenville, Ohio. Automatic fuel-regulating device for steam-power plants. 1,681,530; Aug. 21.

French, Frederick W., Oakland, Calif. Container. 1,681,287; Aug. 21.

French & Hecht, Inc. (See Einfeldt, Ernest E., assignor.)

Fretz-Moon Tube Company. (See Moon, John W., assignor.)

Frick Company. (See Shenton, Francis, assignor.)

Fritsche, Rudolf, New York, N. Y. Preparing rust-resisting iron and steel printing plates. 1,681,849; Aug. 21.

Fruehauf Trailer Company. (See Reid, Frederick M., assignor.)

Fry, Margaret S. (See Fry, Walter L., assignor.)

Fry, Walter L., Scarsdale, N. Y. Seat-cover support. 1,681,180; Aug. 21.

Fry, Walter L., assignor to M. S. Fry, Scarsdale, N. Y. Seat cover. 1,681,179; Aug. 21.

Fry, William W., Los Angeles, Calif., assignor of one-half to Robinson Packer Company, Tulsa, Okla. Well casing. 1,681,332; Aug. 21.

Fuller Brush Company, The. (See Cave, Henry, assignor.)

Fulton, Norman D., assignor to Hercules Powder Company, Wilmington, Del. Method and apparatus for packing cartridges. 1,681,181; Aug. 21.

Fuoco, Pasquale, et al. (See Losi, Lee F., assignor.)

Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Presenting apparatus. 1,681,227; Aug. 21.

Gagliardi, Samuel, and F. Brutto, Missoula, Mont. Rail fastener. 1,681,802; Aug. 21.

Gall, John F., Evanston, Ill., assignor to Simmons Company, Kenosha, Wis. Machine for making spiral springs. 1,681,728; Aug. 21.

Gallicanne, Luc. (See Maximoff, J., De Costa, and Krebs.)

Galloway, Robert M., assignor to The National Automatic Tool Company, Richmond, Ind. Positive tapping mechanism for multiple-spindle machines. 1,681,288; Aug. 21.

Galloway, Robert M., assignor to The National Automatic Tool Company, Richmond, Ind. Safety positive-feed tap. 1,681,289; Aug. 21.

Gannon, Thomas A., Chicago, Ill. Deodorizing cooking. 1,681,531; Aug. 21.

Gardner, Fred G., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission control. 1,681,532; Aug. 21.

Gas Refrigeration Corporation. (See Otto, S., and Bruehl, assignors.)

Gates, Grover F., De Graff, Ohio. Push pole. 1,681,803; Aug. 21.

Gayman, Oliver P., Canal Winchester, Ohio. Printer's chase. 1,681,701; Aug. 21.

Gehnrich, Charles L., Elmhurst, N. Y. Sectional oven wall. 1,681,333; Aug. 21.

General Electric Company. (See Anderson, Arvid E., assignor.)

General Electric Company. (See Brand, Frederick F., assignor.)

General Electric Company. (See Craighead, James R., assignor.)

General Electric Company. (See Schlagenhaufer, Josef, assignor.)

General Electric Company. (See Stephenson, Hugh M., assignor.)

General Manifold and Printing Company, The. (See Lewis, Edward Z., assignor.)

General Railway Signal Company. (See Ober, Hermon P., assignor.)

General Signal Company. (See Wenholz, Walter W., assignor.)

Gentile, Frank, Brooklyn, N. Y. Radiator ornament. Des. 76,132; Aug. 21.

Germer, Edward G., Erie, Pa. Stove. 1,681,476; Aug. 21.

Gersman, Harvey M., Chicago, Ill. Production of expanded trussed beams. 1,681,400; Aug. 21.

Gesellschaft für Drahtlose Telegraphie m. b. H. (See Böhm, Otto, assignor.)

Gesellschaft für Drahtlose Telegraphie m. b. H. (See Tatz, Paul, assignor.)

Gess, Otto, Brooklyn, N. Y. Liquid heater. 1,681,334; Aug. 21.

Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Latch for electric switch boxes. 1,681,850; Aug. 21.

Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Resettable relay. 1,681,851; Aug. 21.

Gilbert, Benjamin F., Fort Worth, Tex. Hemstitcher. 1,681,228; Aug. 21.

Gillasso, Louis, Philadelphia, Pa. Submarine drill. 1,681,533; Aug. 21.

Gillen, Charles J., Carbondale, Pa. Electric-meter guard. 1,681,766; Aug. 21.

Glass, Eugene E., Los Angeles, Calif. Wall safe. 1,681,290; Aug. 21.

Glass, Eugene E., Los Angeles, Calif. Sadiron receptacle. 1,681,291; Aug. 21.

Glass, Perley R., Wayland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-setting machine. 1,681,229; Aug. 21.

Glover, William M., Denver, Colo. Automobile awning. 1,681,292; Aug. 21.

Gminder, Emil, Reutlingen, Germany. Stretching frame for fibrous material. 1,681,768; Aug. 21.

Goertz, August, & Co., Inc. (See Goertz, Walter A., assignor.)

Goertz, Walter A., East Orange, assignor to August Goertz & Co., Inc., New York, N. Y. Vanity case. 1,681,401; Aug. 21.

Gold, Egbert H., Evanston, and E. A. Russell; said Russell assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Hose coupler. 1,681,729; Aug. 21.

Goodman, Joseph, Whitneyville, and W. A. Somers, Hamden, assignors to The Mt. Carmel Manufacturing Company, Mount Carmel, Conn. Shade roller. 1,681,767; Aug. 21.

Goodman, William H., Kensington, London, England, assignor to Dubilier Condenser Corporation, New York, N. Y. Electrical condenser. 1,681,884; Aug. 21.

Gooseide, Elias, Brooklyn, N. Y. Gas-saving device. 1,681,230; Aug. 21.

Gore, Charles, Los Angeles, Calif. Vehicle speed control. 1,681,664; Aug. 21.

Gorton, Thomas S., jr., Evanston, Ill. Novelty box. 1,681,730; Aug. 21.

Goscener, William I., Jersey City, N. J. Smoker's receptacle. 1,681,852; Aug. 21.

Goss Printing Press Co., The. (See Anderson, Niels C., assignor.)

Gottlieb, firm: Max. (See Bergl, K., and Dietrich, assignors.)

Gottwald, Christian, assignor to The Ric-Wil Company, Cleveland, Ohio. Conduit construction for underground pipes. 1,681,731; Aug. 21.

Goudy, Carl F., Flushing, assignor to Pacent Radio Corporation, New York, N. Y. Electrical phonograph reproducer. 1,681,897; Aug. 21.

Grasselli Chemical Company, The. (See Westbrook, Leon R., assignor.)

Grasselli Dyestuff Corporation. (See Stock, Josef, assignor.)

Grasselli Dyestuff Corporation. (See Wagner, H., and Sohst, assignors.)

Gray, Dudley D., Lakewood, Ohio. Support for computing machines. 1,681,732; Aug. 21.

Green, John W., Portsmouth, Va. Combination blind and screen. 1,681,534; Aug. 21.

Greenfield, William H., Philadelphia, Pa. Rail-heating device. 1,681,231; Aug. 21.

Gremling, Joseph A. (See Newton, M. C., and Gremling.)

Griessbach, Robert, and J. Eisele, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Stable suspension and paste of conl. 1,681,335; Aug. 21.

Griffith, Arthur T., Cozad, Nebr. Rake. 1,681,336; Aug. 21.

Grund, Fletcher D., Toledo, Ohio, assignor to The Sozonian Burial Vault Company. Combined casket rest and strap slide. 1,681,337; Aug. 21.

Guaranty Trust Company et al., administrators. (See Alexanderson, Charles A., assignor.)

Gulbransen, Axel G., assignor to Gulbransen Company, Chicago, Ill. Valve for player pianos. 1,681,338; Aug. 21.

Gulbransen Company. (See Gulbransen, Axel G., assignor.)

Güttner, Georg, Berlin, Germany. Rotary motor or compressor. 1,681,583; Aug. 21.

Haglund, Hakon H. (See Locke, G. A., and Haglund.)

Hahn, Morris L. (See Boynton, Garwood T., assignor.)

Halk, Louis, Hackensack, N. J., assignor to Northam Warren Corporation, New York, N. Y. Bottle. Des. 76,133; Aug. 21.

Hall, Charles S., Oakland, Calif. Aircraft landing and housing device. 1,681,637; Aug. 21.

Hall, Howard W., Wodbridge, N. J., assignor to American Smelting and Refining Company, New York, N. Y. Apparatus for smelting. 1,681,635; Aug. 21.

Hall, Peter P-G.; Philadelphia, Pa. Oil cleaner. 1,681,232; Aug. 21.

Hall, Ralph E., Pittsburgh, assignor to J. M. Hopwood, Dormont Borough, Pa. Method and apparatus for determination of the concentration of turbid suspensions. 1,681,339; Aug. 21.

Hallberg, Clay F. (See Dilley, F. M., and Hallberg.)

Halle, Hiram J., New York, N. Y., assignor to Universal Oil Products Company, Chicago, Ill. Refining hydrocarbon oils. 1,681,638; Aug. 21.

Hallenbeck, George E., assignor, by mesne assignments, to Baker Brothers, Inc., Toledo, Ohio. Drill press. 1,681,402; Aug. 21.

Hallenbeck, George E., assignor, by mesne assignments, to Baker Brothers, Inc., Toledo, Ohio. Power-actuated tool. 1,681,403; Aug. 21.

Hammett, Charles W., Port Washington, N. Y. Wheel. 1,681,182; Aug. 21.

Hammond, John H., jr., Gloucester, Mass. System and method for the transmission of radiant energy. 1,681,293; Aug. 21.

Hance, William S., Washington, D. C. Combined wagon and sled. 1,681,853; Aug. 21.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Trench digger. 1,681,536; Aug. 21.

Hansen, Emil J., assignor to Fort Howard Paper Company, Green Bay, Wis. Folded sheets of material. 1,681,611; Aug. 21.

Hansen, Emil J., assignor to Fort Howard Paper Company, Green Bay, Wis. Sheet of folded material. 1,681,639; Aug. 21.

Hapgood, Clarence H., assignor, by mesne assignments, to The C. H. C. Co., Toledo, Ohio. Heat regulator. 1,681,640; Aug. 21.

Hardman, Frederick J., assignor to Delco-Light Company, Dayton, Ohio. Domestic appliance. 1,681,404; Aug. 21.

Harland, Hervey D. (See Johnson, C. A., and Harland.)

Harris-Seybold-Potter Company. (See Harrold, Charles W., assignor.)

Harrold, Charles W., assignor, by mesne assignments, to Harris-Seybold-Potter Company, Cleveland, Ohio. Compensating gear mechanism. 1,681,612; Aug. 21.

Harrow, Alfred T. (See Sloane, Joseph C., assignor.)

Hart, John E., Williamsport, Pa. Valve. 1,681,233; Aug. 21.

Hartmann Trunk Company. (See Ritter, Julius, jr., assignor.)

Hass, Hans, Hamburg-Bergedorf, Germany. Ship's funnel. 1,681,477; Aug. 21.

Hatchell, Benjamin F., Crockett, Tex. Animal trap. 1,681,804; Aug. 21.

Hathaway, Edgar F., Wellesley, and W. Bixby, assignors to Shawmut Engineering Company, Boston, Mass. Yarn spool for tube frames. 1,681,898; Aug. 21.

Hattemer, Justus, Cliffside, N. J., and L. C. Kauling, Brooklyn, assignors to Premier Grand Piano Corporation, New York, N. Y. Wireless receiving installation for grand pianos. 1,681,584; Aug. 21.

Hauserman, E. F. Company, The. (See Hauserman, E. F., Mowery, and Bohnsack, assignors.)

Hauserman, Earl F., Cleveland Heights, L. D. Mowery, Cleveland, and J. A. Bohnsack, East Cleveland, assignors to The E. F. Hauserman Company, Cleveland, Ohio. Demountable wall construction. 1,681,340; Aug. 21.

Hauserman, Earl F., Cleveland Heights, L. D. Mowery, Cleveland, and J. A. Bohnsack, East Cleveland, assignors to The E. F. Hauserman Company, Cleveland, Ohio. Wall structure. 1,681,805; Aug. 21.

Haviland & Co. Societe Anonyme. (See Haviland, George assignor.)

Haviland, George, Paris, assignor to Haviland & Co. Societe Anonyme, Limoges, France. Bowl or similar article. Des. 76,134; Aug. 21.

Haviland, George, Paris, assignor to Haviland & Co. Societe Anonyme, Limoges, France. Pitcher or similar article. Des. 76,135; Aug. 21.

Hawley, Charles G., assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive boiler. 1,681,405; Aug. 21.

Hayes, Francis T., Richmond Hill, N. Y. Display board. Des. 76,136; Aug. 21.

Haynes, Urles J., Pascola, Mo. Emergency wheel for vehicles. 1,681,665; Aug. 21.

Heald, James N., Worcester, Mass., and W. Law, Hartford, Conn., assignors to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,681,183; Aug. 21.

Heald Machine Company, The. (See Heald, J. N., and Law, assignors.)

Heany, John A., New Haven, Conn., assignor to World Bestos Corporation, Paterson, N. J. Process and apparatus for making yarn. 1,681,234; Aug. 21.

Hedrick, Joseph G., Hailey, Idaho, and C. H. Neuslis, Baker, Oreg. Adjustable shade and awning for automobile and other windows. 1,681,585; Aug. 21.

Helbig, Albin B., Berlin, Germany. Water-cooled furnace walls. 1,681,341; Aug. 21.

Hendey Machine Company, The. (See Knight, George H., assignor.)

Hengehold, Joseph H., Covington, Ky. Display and service receptacle for merchandise, samples, and advertising matter relating to same. 1,681,406; Aug. 21.

Henry, Robert E., Pittsburgh, Pa. Covering for bathtubs and the like. 1,681,294; Aug. 21.

Hercules Powder Company. (See Fulton, Norman D., assignor.)

Herpicide Company, The. (See Edwards, Wilson D., assignor.)

Heston, Charles B., Philadelphia, Pa. Label. 1,681,769; Aug. 21.

Heuser, Ralph V., Burrage, assignor, by mesne assignments, to A. C. Burrage, jr., Ipswich, Mass. Vulcanization of rubber. 1,681,806; Aug. 21.

Hickman, William A., West Mystic, Conn. Boat. 1,681,342; Aug. 21.

Hlaring, William C., assignor to J. E. Mergott Co., Newark, N. J. Desk calendar. 1,681,235; Aug. 21.

Higgins, Albert L., Bar Harbor, Me. Figure wheeled toy. 1,681,666; Aug. 21.

Hines, Gail H., Lansing, Mich. Power-control device. 1,681,613; Aug. 21.

Hirschmann, William F., Leroy, N. Y. Rotary ventilator. 1,681,343; Aug. 21.

Hitchcock, Helen S., New York, N. Y. Toy animal. 1,681,537; Aug. 21.

Hobson, John H., Sulphur Springs, Ark. Blow and flue cleaner. 1,681,478; Aug. 21.

Hodges, William R., Eupora, Miss. Adjustable shackle dolly. 1,681,854; Aug. 21.

Hoe, Robert, Poughkeepsie, N. Y. Wrench. 1,681,184; Aug. 12

Hoffman, Franz, Vienna, Austria. Treatment of liquids such as milk with rays, more particularly with ultraviolet rays. 1,681,538; Aug. 21.

Hohnekamp, Max. (See Eckhardt, F., and Hohnekamp.)

Holcomb, Arthur L. (See Tice, Reuben S., assignor.)

Holt, William L., Scarboro, Me. Milk cooler. 1,681,539; Aug. 21.

Hopwood, John M. (See Hall, Ralph E., assignor.)

Horstmann, Frederick W., Irvington, N. J. Feeding mechanism for fur-shearing machines. 1,681,917; Aug. 21.

Horstmann, Frederick W., Maplewood, N. J. Fur-shearing machine. 1,681,918; Aug. 21.

Horstmann, Frederick W., Maplewood, N. J. Machine for cutting designs in furs. 1,681,919; Aug. 21.

Houbigant, Inc. (See Javal, Fernand, assignor.)

Howard, Frank A., Elizabeth, N. J., assignor to Standard Oil Development Company. Cracking hydrocarbons. 1,681,899; Aug. 21.

Howell, John E., Dallas, Tex. Fishhook. 1,681,407; Aug. 21.

Hubinger, George M., assignor to Star Detachable Towel Holder Co., Milwaukee, Wis. Towel cabinet. 1,681,614; Aug. 21.

Hull, Matthew R., assignor to Rex Manufacturing Company, Connersville, Ind. Deck frame for automobile tops. 1,681,479; Aug. 21.

Hulse, Walter, Flournoy, Calif. Road scraper. 1,681,855; Aug. 21.

Humphrey, Emma W. D., et al., administrators. (See Alexanderson, Charles A., assignor.)

Hungerford, Oliver T., Belleville, N. J. Packing material. 1,681,540; Aug. 21.

Hunt, Clarence, Churdan, Iowa. End-gate fastener. 1,681,856; Aug. 21.

Husmann, Harry L., Refrigerator Company. (See Klaus, Charles E., assignor.)

Hutchens, Edward, Cudahy, Wis. Washer-placing machine. 1,681,480; Aug. 21.

I. G. Farbenindustrie Aktiengesellschaft. (See Griessbach, R., and Elsele, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Knorr, A., and Steimmig, assignors.)

Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)

Ingersoll-Rand Company. (See Slater, Fred M., assignor.)

International Harvester Company. (See Rice, G. L., and Whitcomb, assignors.)

Interstate Folding Box Company, The. (See Bergstein, Samuel, assignor.)

Jacklin, Leonard F., assignor to The Western Glass Company, Streator, Ill. Figured glass. Des. 76,137; Aug. 21.

Jackson, James H., Detroit, Mich. Oil burner. 1,681,236; Aug. 21.

Jacobson, John, Galveston, Tex. Protective cap for wood piling. 1,681,857; Aug. 21.

Jacobson, John, Galveston, Tex. Key aligner. 1,681,858; Aug. 21.

James, Joseph H., Pittsburgh, assignor to C. P. Byrnes, trustee, Sewickley, Pa. Treating partial oxidation products. 1,681,185; Aug. 21.

James, Joseph H., Pittsburgh, assignor to C. P. Byrnes, trustee, Sewickley, Pa. Insoluble soap and making an insoluble soap from aldehyde fatty acid mixtures of mineral oil. 1,681,237; Aug. 21.

James, Joseph H., Pittsburgh, assignor to C. P. Byrnes, trustee, Sewickley, Pa. Purifying partial oxidation products. 1,681,238; Aug. 21.

Janik, Boleslaw A., Milwauke, Wis. Auxiliary bearing for saw-carriage piston rods. 1,681,615; Aug. 21.

Javal, Fernand, Paris, France, assignor to Houbigant, Inc., New York, N. Y. Bottle. Des. 76,138; Aug. 21.

Jeffrey Manufacturing Company, The. (See Ossing, Stanley F., assignor.)

Jester, John R. (See Clark, A. T., Leonhauser, and Jester.)

Johannesmeyer, Charles G., Glendale, and A. R. McCann, assignors to The Liberty Machine Tool Company, Hamilton, Ohio. Tool holder for metal planers. 1,681,408; Aug. 21.

Johnson Automobile Lock Co. (See Johnson, Colvin L., assignor.)

Johnson, Chester A., and H. D. Harland, assignors to Chicago Fuse Mfg. Company, Chicago, Ill. Electrical fuse. 1,681,239; Aug. 21.

Johnson, Chester A., and H. D. Harland, assignors to Chicago Fuse Mfg. Company, Chicago, Ill. Electrical fuse. 1,681,240; Aug. 21.

Johnson, Colvin L., assignor to Johnson Automobile Lock Co., St. Louis, Mo. Spare-tire lock. 1,681,409; Aug. 21.

Johnson, Edwin J., Montreal, Quebec, assignor to Dominion Cartridge Company, Limited, Montreal, Canada. Mushrooming bullet and making same. 1,681,295; Aug. 21.

Johnson, Oscar, New York, N. Y. Pipe wrench. 1,681,641; Aug. 21.

Johnson, Robert C., Roxton, Leicester, England. Curtain rail and support therefor. 1,681,345; Aug. 21.

Johnson Service Company. (See Otto, Arthur J., assignor.)

Johnston, John, New Haven, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical conductor. 1,681,541; Aug. 21.

Johnston, John W., Stockton, Calif. Bank-protecting device. 1,681,481; Aug. 21.

Johnston, Marvin, and M. H. Scott, Sapulpa, Okla. Cable wrench. 1,681,482; Aug. 21.

Johnston, William B., and J. R. Carman, Chadron, Nebr. Marking tool. 1,681,667; Aug. 21.

Jones, Joseph S., and S. N. Mead, jr., Brooklyn, assignor to Chas. Cory & Son, Incorporated, New York, N. Y. Electrical fitting. 1,681,186; Aug. 21.

Jones, Walter E., Lynchburg, Va. Conveyer. 1,681,859; Aug. 21.

Jordan, William, Lancaster, Nebr. Oven for cooking stoves. 1,681,668; Aug. 21.

Jost, Friedrich, Sodlingen, assignor to Karl Müller, Berlin-Lichterfelde-West, Germany. Purifying gases. 1,681,702; Aug. 21.

Joyce-Cridland Company, The. (See Dawley, James C., assignor.)

Jurgensen, August P. (See Chayes, H. E. S., and Jurgensen.)

Kadel, Byers W., Baltimore, Md. Car-door-locking mechanism. 1,681,669; Aug. 21.

Kahn, Joseph, Chicago, Ill. Palette for gold-stamping presses. 1,681,733; Aug. 21.

Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Combination switch. 1,681,241; Aug. 21.

Karouzos, Paul. (See Scourtes, N., and Karouzos.)

Katims, Harry. (See Weiner, E., and Katims.)

Kauling, Louis C. (See Hattemer, J., and Kauling.)

Kautz, Jacob, Chicago, Ill. Attachment for saw-filing clamps. 1,681,483; Aug. 21.

Kantzky, Rudolph H., assignor to W. L. Kautzky, Des Moines, Iowa. Metallic packing ring. 1,681,770; Aug. 21.

Kautzky, Walter L. (See Kautzky, Rudolph H., assignor.)

Kaye, Walter K., Leeds, England. Latch for the doors of motor road vehicles. 1,681,346; Aug. 21.

Kearney, Thomas F., Sharon, Pa. Tire gauge. 1,681,771; Aug. 21.

Keays, Robert J. (See Roberts, W. O., and Keays.)

Keesling, Archie, Campbell, Calif. Latch. 1,681,187; Aug. 21.

Kellogg Switchboard and Supply Company. (See Kaisling, William, assignor.)

Kemp, Evina A. (See Simpson, Robert W., assignor.)

Kenerson, Joseph E., Saugus, assignor to Trimont Manufacturing Company, Roxbury, Mass. Pipe cutter and cutting wheel therefore. 1,681,807; Aug. 21.

Kennedy, Aubrey M., Los Angeles, Calif. Aeroplane. 1,681,642; Aug. 21.

Kennedy, Walter, Cliffside, N. J. Gas heater. 1,681,484; Aug. 21.

Kennedy, Walter, Cliffside, N. J. Gas heater. 1,681,485; Aug. 21.

Kennedy, Walter, Cliffside, N. J. Gas heater. 1,681,734; Aug. 21.

Keppler, Albert E., Philadelphia, Pa., assignor to Brown & Bailey Company. Display box. 1,681,347; Aug. 21.

Kessler, Frederick M., assignor of one-half to J. C. Beck, Joplin, Mo. Display-card holder. 1,681,586; Aug. 21.

Kielberg, Henry, Martins Ferry, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Cover for garbage cans. 1,681,587; Aug. 21.

Kimbro, Robert M., Calexico, Calif. Adjustable seat back for automobiles. 1,681,643; Aug. 21.

King, Eustachius J., Philadelphia, Pa. Railroad switch. 1,681,860; Aug. 21.

King, Louise C., Cleveland, Ohio. Spectacles. 1,681,735; Aug. 21.

Kingston, George, assignor to Kingston Products Corporation, Kokomo, Ind. Carburetor. 1,681,410; Aug. 21.

Kingston Products Corporation. (See Kingston, George, assignor.)

Kinsley, Felix P., St. Louis, Mo. Watch bracelet or similar article. Des. 76,139; Aug. 21.

Klaus, Charles E., assignor to Harry L. Hussmann Refrigerator Company, St. Louis, Mo. Show-case refrigerator. 1,681,242; Aug. 21.

Klehr, William, Forest Hills, assignor to Edward F. Caldwell & Co. Inc., New York, N. Y. Electric-light fixture. Des. 76,140; Aug. 21.

Klepfer, Solomon, Indianapolis, Ind. Metal card. 1,681,411; Aug. 21.

Knight, George H., assignor to The Hendey Machine Company, Torrington, Conn. Adjustable machine-table support. 1,681,412; Aug. 21.

Knorr, Angelo, Berlin, and G. Steimmig, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of dioxan. 1,681,861; Aug. 21.

Koechlin, Isaac, assignor to Société Anonyme des Automobiles et Cycles Peugeot, Levallois-Perret, France. Steering-wheel brake. 1,681,348; Aug. 21.

Koehring Company. (See Lichtenberg, Erich H., assignor.)

Kohler, Robert W., Tekamah, Nebr. Check board and pencil holder. 1,681,862; Aug. 21.

Koontz, Adrian R. (See Koontz, Albert D. and A. R.)

Koontz, Albert D., and A. R., deceased, Charleston, W. Va.; C. B. Koontz, executrix, assignors of one-third to C. Lucas. Coupler for mine cars. 1,681,616; Aug. 21.

Koontz, Clara B., executrix. (See Koontz, Albert D. and A. R.)

Kortepeter, Ralph E., Brooklyn, and A. Amundsen, Glendale, assignors to The Sperry Gyroscope Company, Brooklyn, N. Y. Repeater-motor indicator. 1,681,542; Aug. 21.

Krause, Paul A., Woodlynne, N. J. Illuminated vehicle license tag and holder for same. 1,681,349; Aug. 21.

Krebs, Robert P. D. (See Maximoff, J., De Costa, and Krebs.)

Kreidel, Hans, Wiesbaden, Germany. Grease-gun-charging device. 1,681,772; Aug. 21.

Kronmiller, Carl G. (See Bates, A. M., and Kronmiller.)

Kronqvist, Karl F., Helsingfors, Finland. Sheet-feeding mechanism. 1,681,413; Aug. 21.

Krueger, Herman W., trustee. (See Shotwell, Fred M., assignor.)

Kuhn, Eunice H. (See Kuhn, Robert B., assignor.)

Kuhn, John J., Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustical device. 1,681,543; Aug. 21.

Kuhn, Robert B., assignor to E. H. Kuhn, Canton, Ohio. Internal-combustion engine. 1,681,544; Aug. 21.

Kull, Andrew A., assignor to The Burdick Corporation, Milton, Wis. Therapeutic lamp. 1,681,736; Aug. 21.

Kumagai, Buntaro, Los Angeles, Calif. Detachable handle. 1,681,414; Aug. 21.

Kupfer, Louis E., Chicago, Ill. Door opener. 1,681,188; Aug. 21.

Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,681,243; Aug. 21.

Labombarde, Elie W., Nashua, N. H. Method and machine for gloss-coating paper. 1,681,350; Aug. 21.

Lahr, Harry I., and O. E. Swartz, assignors to The Ohio Match Company, Wadsworth, Ohio. Conveyer mechanism for match machines. 1,681,863; Aug. 21.

Landis Tool Company. (See Steiner, Amos P., assignor.)

Landis Tool Company. (See Stoner, Paul, assignor.)

Lang, Frank S., Seattle, Wash. Cooking stove. 1,681,773; Aug. 21.

Lang, Philip, Cedar Falls, Iowa, assignor to Wagner Manufacturing Company. Elevator-door-operating mechanism. 1,681,545; Aug. 21.

Lardone, Gennaro, et al. (See Losl, Lee F., assignor.)

Larson, Elvin L., Aberdeen, Wash. Spotlight control. 1,681,486; Aug. 21.

Latham, Albert, deceased, Beverly; J. W. Nourbourn, Somerville, Mass., administrator, assignor to American Button & Fastener Co., Augusta, Me. Machine for assembling and mounting articles. 1,681,244; Aug. 21.

Lautrup, George W. (See Lewis, J. D., and Lautrup.)

Law, William. (See Heald, J. N., and Law.)

Lawson, Joseph, Great St. Helens, assignor to Asiatic Petroleum Company, Limited, St. Helens Court, London, England. Filling two containers alternately. 1,681,588; Aug. 21.

Lee, Frederick W., Owings Mills, and M. W. Pullen, Towson, Md., assignors of one-fourth to L. Edelson, Philadelphia, Pa. Alternating-current switch. 1,681,774; Aug. 21.

Lee, Harold A., Suva, Fiji Islands. Wind-controlled steering gear. 1,681,415; Aug. 21.

Lee, William S., R. Pfaehler, and D. Nabow, Charlotte, N. C. Apparatus for controlling hydraulic gates. 1,681,487; Aug. 21.

Leitch, Frank E., assignor to Stamford Wall Paper Company, Stamford, Conn. Wall paper or the like. Des. 76,141; Aug. 21.

Lempke, Paul R. (See Stroth, O. C., and Lempke.)

Leonhauser, Henry A. (See Clark, A. T. Leonhauser, and Jester.)

Levien, Louis, New York, N. Y. Serving tray. 1,681,589; Aug. 21.

Levinson, Samuel. (See Bady, L., and Levinson.)
Lévy, Marcel, assignor to "Prodor" Fabrique de Produits Organiques S. A., Geneva, Switzerland. Forming roads and the like. 1,681,353; Aug. 21.
Lewis, Edward Z., Chicago, Ill., assignor to The General Manifold and Printing Company. Duplicating record book. 1,681,296; Aug. 21.
Lewis, Jacob D., and G. W. Lautrup, Yonkers, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Speed-control system for electric elevators. 1,681,351; Aug. 21.
Libbey-Owens Sheet Glass Company, The. (See Rowley, Clifford A., assignor.)
Liberty Machine Tool Company, The. (See Johannesmeyer, C. G., and McCann, assignors.)
Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Easily-operated clutch. 1,681,352; Aug. 21.
Lichtenberger, Richard, Neviges, near Velbert, Germany. Padlock. 1,681,416; Aug. 21.
Liddell, Robert, Puteaux, France, assignor to Societe Parisienne des Produits de Beaute "Ganna Walska," Pantin, France. Bottle. Des. 76,142; Aug. 21.
Light, Arthur H., Oakland, Calif. Piston structure. 1,681,488; Aug. 21.
Lindhal, John T., Stockholm, Sweden. Peeling machine for potatoes and the like. 1,681,737; Aug. 21.
Lindhorst, Rudolph J., Cleveland, Ohio. Rug fastener. 1,681,417; Aug. 21.
Lindroos, William V., Helsingfors, Finland. Snow and ice scooter. 1,681,297; Aug. 21.
Line Material Company. (See Steinmayer, Alwin G., assignor.)
Lisenby Manufacturing Company. (See Low, Charles L., assignor.)
Litwin, Julia, Buffalo, N. Y. Fish lifter. Des. 76,143; Aug. 21.
Livesay, Andrew J., White Sulphur Springs, W. Va. Folding rack or holder. 1,681,418; Aug. 21.
Loberg, Andrew, Albert Lea, Minn. Reflector. 1,681,298; Aug. 21.
Locke, George A., Glen Cove, and H. H. Haglund, assignors to Bell Telephone Laboratories, Incorporated, and The Western Union Telegraph Company, New York, N. Y. Signaling system. 1,681,489; Aug. 21.
Locomotive Firebox Company. (See Hawley, Charles G., assignor.)
Lofy, Cecilia, et al., executrices. (See Lofy, Peter.)
Lofy, Magdalena, et al., executrices. (See Lofy, Peter.)
Lofy, Peter, deceased, by C. and M. Lofy, executrices, Springfield, Ill. Railway-track sander. 1,681,419; Aug. 21.
Lollis, Benjamin F., Berwyn, assignor of one-half to O. S. Flath, Chicago, Ill. Switch and signal rod or pipe carrier support. 1,681,617; Aug. 21.
Lomax, Clarence E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,681,703; Aug. 21.
Lomax, Frank B., Chicago, Ill. Making sirups. 1,681,490; Aug. 21.
Long, Arthur D., El Paso, Tex. Tire-carrying rim support. 1,681,864; Aug. 21.
Long, John E., Multnomah, Oreg. Electric sign. 1,681,491; Aug. 21.
Longtin, John S., et al. (See Biette, Henry C., assignor.)
Losi, Lee F., Newark, assignor of one-fifth to M. Mercolino, one-fifth to P. Fuoco, one-fifth to P. Paris, and one-fifth to G. Lardone, Bayonne, N. J. Brake mechanism. 1,681,354; Aug. 21.
Low, Charles L., assignor to Lisenby Manufacturing Company, Fresno, Calif. Ink fountain for printing presses. 1,681,299; Aug. 21.
Lowenfeld, Henri, Paris, France. Shaving stick. 1,681,355; Aug. 21.
Lucas, Charles. (See Koontz, Albert D., and A. R., assignors.)
Luckwell, Arthur, Mannheim-Neckarau, Germany. Process and apparatus for weaving together the ends of similarly woven belts and bands. 1,681,356; Aug. 21.
Ludlow, James M., Carrollton, Ohio. Window ventilator. 1,681,420; Aug. 21.
Lyons, Michael J., Philadelphia, Pa. Tire filler. 1,681,357; Aug. 21.
Maag, Max, Schwamendingen, near Zurich, Switzerland. Production of sounds. 1,681,546; Aug. 21.
Maag, Max, Schwamendingen, Switzerland. Organ action. 1,681,547; Aug. 21.
Mans, Arthur J., Madison, Wis. Screen means for automobiles. 1,681,300; Aug. 21.
Mabbs, John W. (See Blanchard, Julius M., assignor.)
Madvig, Gunnar, Oakland, Calif. End ornament for drapery poles and rods. Des. 76,144; Aug. 21.
Madvig, Gunnar, Oakland, Calif. End ornament for drapery poles and rods. Des. 76,145; Aug. 21.
Madvig, Gunnar, Oakland, Calif. End ornament for drapery poles and rods. Des. 76,146; Aug. 21.
Magee, George R. (See Butner, William R., assignor.)
Maggi, Sabatino, Passaic, N. J. Dipping and painting machine. 1,681,301; Aug. 21.
Main, Charles E., Kansas City, Mo. Hydrocarbon burner. 1,681,302; Aug. 21.
Manderson, Oswald G., Footscray, assignor of one-half to B. Williams, Yarraville, Victoria, Australia. Cigarette-making appliance. 1,681,738; Aug. 21.
Mangini, Norman J., Rochester, N. Y. Device used in the making of garment collars. 1,681,189; Aug. 21.
Maple, William S., Los Angeles, Calif. Radio ground antenna. 1,681,644; Aug. 21.
March, Carl, Chicago, Ill. Match-box holder. 1,681,865; Aug. 21.
Marcus, Jacob, Brooklyn, N. Y. Sandal. 1,681,548; Aug. 21.
Marczinko, Joseph, Passaic, N. J. Bowling game board. 1,681,590; Aug. 21.
Marinsky, Davis, Bronx, N. Y. Coupling member for attaching devices. 1,681,549; Aug. 21.
Marinsky, Davis, New York, N. Y. Coupling member for separable fasteners. 1,681,550; Aug. 21.
Marks, John W., Oakland, Calif. Fireplace structure. 1,681,670; Aug. 21.
Marlatt, George E., Pasadena, Calif. Typographical machine. 1,681,671; Aug. 21.
Marlatt, George E., Pasadena, Calif. Typographical machine. 1,681,672; Aug. 21.
Martin, Mark H., assignor to T. H. Symington & Son, Inc., Baltimore, Md. Side frame for car trucks. 1,681,303; Aug. 21.
Martin, Virgil L. (See Smith, J. W., Sawyer, and Martin.)
Martocello, Joseph A., Philadelphia, Pa. Raw-water ice-making system. 1,681,190; Aug. 21.
Marx, Louis, Brooklyn, N. Y. Circus toy. 1,681,304; Aug. 21.
Mas, George N., Washington, D. C., assignor to American Ornamental Bottle Corporation, Lynchburg, Va. Bottle. Des. 76,147; Aug. 21.
Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft. (See Wilhelm, Ottmar, assignor.)
Mathieu, Frank Z., Midland, Mich. Cooling and filling cap for radiators. 1,681,775; Aug. 21.
Maximoff, Juvenal, and M. S. De Costa, born Vincent, Versailles, and R. P. D. Krebs, otherwise known as Luc Gaillcanne, Paris, France. Apparatus for refining metals. 1,681,191; Aug. 21.
May, David T., Port Washington, and C. G. McCormick, New York, N. Y., assignors, by mesne assignments, to Western Electric Company, Incorporated. Cable-splicing machine. 1,681,245; Aug. 21.
McAuliff, Florance, Mandan, N. Dak. Rotary screen cleaner for conical and cylindrical screens. 1,681,422; Aug. 21.
McBride, Arthur C., San Diego, Calif. Vehicle brake-pedal-holding means. 1,681,192; Aug. 21.
McCabe, Ira E., Chicago, Ill. Thermal safety device. 1,681,421; Aug. 21.
McCalmont, Albertus W., assignor, by mesne assignments, to V. E. Nelson, Pontiac, Mich. Carburetor. 1,681,358; Aug. 21.
McCann, Alfred R. (See Johannesmeyer, C. G., and McCann.)
McCauley, Francis P., Westbury, N. Y. Dispensing pump. 1,681,866; Aug. 21.
McCormick, Charles G. (See May, D. T., and McCormick.)
McCulloch, Charles A. (See Ripken, Hugo F., assignor.)
McCurdy, Ralph G., Englewood, N. J., assignor to American Telephone and Telegraph Company. Telephone system with auxiliary signaling circuit. 1,681,246; Aug. 21.
McDonnell, James P., Waverly, Minn. Apparatus for producing optical effects from pictures. 1,681,776; Aug. 21.
McGannon, Cora, Brockville, Ontario, Canada. Direction indicator. 1,681,867; Aug. 21.
McLaughlin, Denis P., San Diego, Calif. Cutting device. 1,681,739; Aug. 21.
McLean, William B., Montreal, Quebec, Canada. Burr for grindstones. 1,681,868; Aug. 21.
McMyler Interstate Company, The. (See Munn, Donald S., assignor.)
McNabb, Charlie, Scranton, Iowa. Extension hood for wind stackers. 1,681,77; Aug. 21.
McVey, Leland S., Fontana, Calif. Game. 1,681,682; Aug. 21.
Mead, Samuel N., jr. (See Jones, J. S., and Mead.)
Meadows, Albert. (See Sherman, A. G., and Meadows.)
Meek, Hamilton D., Los Angeles, Calif. Weather-strip attachment. 1,681,869; Aug. 21.
Mellor, Leonard, Manchester, England. Machine for wrapping articles of a uniform or approximately uniform size and shape. 1,681,492; Aug. 21.
Mendel, William, Beverly, assignor to S. A. Neidich, Edgewater Park, N. J. Cellulose-xanthating process. 1,681,900; Aug. 21.
Merideth, Charles G., Evansville, Ind. Conductor terminal. 1,681,673; Aug. 21.
Mercolino, Michael, et al. (See Losi, Lee F., assignor.)
Mergott, J. E., Co. (See Hlering, William C., assignor.)
Merz & McLellan, Engineers. (See Weeks, Edmund G., assignor.)
Metal & Thermit Corporation. (See Deppeler, John H., assignor.)
Meyer, Carl, Zurich, Switzerland. Cord guide for rolling toys running on cords. 1,681,674; Aug. 21.
Meyers, Norman G., assignor to The B. V. D. Company, Inc., New York, N. Y. Device for computing underwear sizes. 1,681,740; Aug. 21.
Midland Chemical Laboratories. (See Bloodhart, John W., assignor.)
Milcham, Helen W. D., et al., administrators. (See Alexanderson, Charles A., assignor.)

Millar, George A., Ridgefield Park, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Glass-working machine. 1,681,591; Aug. 21.
Miller, Arthur P., and D. Slakel, Chicago, Ill. Dispensing device. 1,681,592; Aug. 21.
Miller Company, The. (See Walter, Herman H., assignor.)
Miller, Frank P., Meadville, Pa. Rotary cutter. 1,681,675; Aug. 21.
Miller, Jane R., Los Angeles, Calif. Toy boat. Des. 76,148; Aug. 21.
Miller, Jay D. (See Miller, John J., assignor.)
Miller, John J., assignor of one-third to J. D. Miller, Chicago, Ill. Making building material. 1,681,493; Aug. 21.
Miller, Raymond E., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Leakage-testing device. 1,681,351; Aug. 21.
Miller, Thomas A., Miami, Fla. Shock absorber. 1,681,870; Aug. 21.
Millville Manufacturing Company, The. (See Skedgell, David E., assignor.)
Mishcon, Samuel, Brooklyn, N. Y. Knitting-machine mechanism. 1,681,359; Aug. 21.
Mock, James C., Detroit, Mich. Carrier support for switch and signal rods. 1,681,619; Aug. 21.
Modern Foundry and Pattern Works. (See Cameto, Leon, assignor.)
Modern Lighting Fixture Co. (See Di Gaudio, John, assignor.)
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Looper mechanism for sewing machines. 1,681,901; Aug. 21.
Moneuse, Alphonse F., Valley Stream, N. Y. Water heater. 1,681,305; Aug. 21.
Monsarrat, Charles A. Louis, Riviere du Loup, Quebec, Canada. Plow. 1,681,423; Aug. 21.
Montgomery, Robert J., Rochester, N. Y., assignor to Bausch & Lomb Optical Company. Optical glass. 1,681,704; Aug. 21.
Moody, Lewis F., Philadelphia, Pa. High-speed impulse turbine. 1,681,705; Aug. 21.
Moody, Lewis F., Philadelphia, Pa. Hydraulic turbine. 1,681,706; Aug. 21.
Moon, John W., assignor to Fretz-Moon Tube Company, Butler, Pa. Machine for cutting to length continuously tubing. 1,681,306; Aug. 21.
Moore, John E., assignor to Standard Oil Company, Whiting, Ind. Breather bag. 1,681,676; Aug. 21.
Morgan, John S., assignor to Thermal Industrial and Chemical (T. I. C.) Research Company Limited, London, England. Heat treatment of substances by means of molten metal. 1,681,808; Aug. 21.
Morse, Albert W., and W. E. Wolheim, New York; said Wolheim assignor to The Anthony Company, Long Island City, N. Y. Strainer. 1,681,620; Aug. 21.
Morton, Albert A., Baker, Oreg. Mechanical device. 1,681,424; Aug. 21.
Moss, Harry, Philadelphia, Pa. Sweater garment. 1,681,809; Aug. 21.
Motormeter Company. (See Schlaich, Herman, assignor.)
Mt. Carmel Manufacturing Company, The. (See Goodman, J., and Somers, assignors.)
Mount, Frank R., and C. P. Young, Warren, Pa. Hatrack. 1,681,552; Aug. 21.
Mowery, Leroy D. (See Hauserman, E. F., Mowery, and Bohnsack.)
Moxter, Ernst, St. Louis, Mo. Electric socket. 1,681,425; Aug. 21.
Mulford, Logan W., Kew Gardens, N. Y. Shield for skylight and floor-light construction. 1,681,741; Aug. 21.
Mulhern, Bernard A. (See Mulhern, Charles and B. A.)
Mulhern, Charles and B. A., Wilkes-Barre, Pa. Steel tie and rail anchor. 1,681,871; Aug. 21.
Mulholland, Thomas, assignor to Valley Rubber Company, Wheeling, W. Va. Rubber-strip-cutting apparatus. 1,681,247; Aug. 21.
Mulholland, Thomas, assignor to Valley Rubber Company, Wheeling, W. Va. Machine for trimming strips of rubber. 1,681,248; Aug. 21.
Mulholland, Thomas, assignor to Valley Rubber Company, Wheeling, W. Va. Machine for forming spherical solid-rubber balls. 1,681,249; Aug. 21.
Müller, Arthur, Bern, Switzerland. Classing clamp. 1,681,707; Aug. 21.
Müller, Ernst, Bern, Switzerland. Machine for casting stereotype plates having a mold adapted to be pressed against the outlet opening of the pot. 1,681,872; Aug. 21.
Müller, Karl. (See Jost, Friedrich, assignor.)
Munn, Donald S., South Euclid, assignor to The McMyler Interstate Company, Bedford, Ohio. Boat unloader. 1,681,742; Aug. 21.
Murakoshi, Kogoro, Tokyo Prefecture, Japan. Induced-current medical instrument with condenser. 1,681,708; Aug. 21.
Murphy, Luke E., Milwaukee, Wis. Window fastener. 1,681,618; Aug. 21.
Murphy, P. H., Company. (See Small, Arthur E., assignor.)
Musselman, Alvin J., Chicago, Ill. Automobile bumper. 1,681,677; Aug. 21.
Myles Salt Company. (See Benjamin, Emanuel V., assignors.)
N. C. L. Engineering Corporation. (See Noble, Warren, assignor.)
Nabow, David. (See Lee, W. S., Pfaehler, and Nabow.)
National Automatic Tool Company, The. (See Galloway, Robert M., assignor.)
National Lace and Embroidery Company. (See Schmid, Werner.)
National-Standard Company. (See Pierce, Robert C., assignor.)
Neahr, Jacob E., Hartsdale, N. Y. Match safe. 1,681,250; Aug. 21.
Neidich, Samuel A. (See Mendel, William, assignor.)
Nelson, Adolph L., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Piston. 1,681,621; Aug. 21.
Nelson, Adolph L., Detroit, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Piston. 1,681,709; Aug. 21.
Nelson, Claude A. (See Thomas, T. H., and Nelson.)
Nelson, Julius A., Savannah, Ga. Type-cleaning kit. 1,681,810; Aug. 21.
Nelson, Victore E. (See McCalmont, Albertus W., assignor.)
Netterman, John, Island Heights, N. J. Valve. 1,681,553; Aug. 21.
Neuslis, Carl H. (See Hedrick, J. G., and Neuslis.)
Neutrasol Products Corporation. (See Pohl, Edward, assignor.)
Newton, Milo C., and J. A. Gremling, assignors to The E. & N. Manufacturing Company, Delphos, Ohio. Combined mop and wringer. 1,681,622; Aug. 21.
Nichols, Thompson W., Grand Rapids, Mich. Tractor. 1,681,426; Aug. 21.
Nicholson, Stanley W., assignor to The Dura Company, Toledo, Ohio. Window-regulator mounting. 1,681,251; Aug. 21.
Nicholson, William A., Prairie du Chien, Wis., assignor of one-half to C. Wingen, Marquette, Iowa. Road scraper. 1,681,873; Aug. 21.
Noble, Warren, Detroit, Mich., assignor to N. C. L. Engineering Corporation, Providence, R. I. Single-acting engine and piston. 1,681,494; Aug. 21.
Noble, Warren, Detroit, Mich. Oil-distributing device. 1,681,495; Aug. 21.
Noetzli, Fred A., Los Angeles, Calif. Dam. 1,681,427; Aug. 21.
North East Appliances, Inc. (See Thompson, Russell G., assignor.)
North East Electric Company. (See Sullivan, Raymond H., assignor.)
Norton, Charles H., Plainville, Conn., assignor to Norton Company, Worcester Mass. Cylindrical grinding machine. 1,681,902; Aug. 21.
Norton Company. (See Norton, Charles H., assignor.)
Norton Company. (See Washburn, Lorenzo S., assignor.)
Norton Company. (See Webster, Duane E., assignor.)
Norton, Edward L., assignor to Western Electric Company, Incorporated, New York, N. Y. Wave filter. 1,681,554; Aug. 21.
Northam Warren Corporation. (See Halk, Louis, assignor.)
Nourbourn, James W., administrator. (See Latham, Albert.)
Nye, William I., San Francisco, Calif. Press-feed guide. 1,681,360; Aug. 21.
Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Distortion correction for transmission lines. 1,681,252; Aug. 21.
Ober, Hermon P., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,681,903; Aug. 21.
O'Connell, William L. (See Bartlett, Linton G., assignor.)
O'Donnell, Thomas, Ironwood, Mich. Socket box. 1,681,678; Aug. 21.
Oesterrichische Daimler-Motoren Aktiengesellschaft. (See Raab, Leopold, assignor.)
O'Harra, Berry M. (See Read, C. L., and O'Harra.)
Ohio Brass Company, The. (See Pipes, Pliny P., assignor.)
Ohio Match Company, The. (See Lahr, H. I., and Swartz, assignors.)
Olley, Raymond H. (See Pearson, J. T., and Olley.)
Olsen, Carl A., assignor, by mesne assignments, to A. T. Oil Burner Co., Lynn, Mass. Combined mixing and combustion chamber for liquid-fuel-burning apparatus. 1,681,778; Aug. 21.
Olsen, John K., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Speedometer dial. Des. 76,149; Aug. 21.
Oneida Community, Limited. (See Allen, Grosvenor N., assignor.)
Ossing, Stanley F., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Crushing apparatus. 1,681,779; Aug. 21.
Ostrander, Robert M., Los Angeles, Calif. Match-box holder. 1,681,710; Aug. 21.
Otis Elevator Company. (See Lewis, J. D., and Lautrup, asignors.)
Ott, Oran W., Los Angeles, Calif. Fin-type air heater. 1,681,428; Aug. 21.
Otto, Arthur J., assignor to Johnson Service Company, Milwaukee, Wis. Temperature regulation. 1,681,253; Aug. 21.
Otto, Stuart, Wilton, Conn., and L. Bruehl, Brooklyn, N. Y., assignors to Gas Refrigeration Corporation, Scranton, Pa. Evaporator for refrigerating apparatus. 1,681,254; Aug. 21.

Ouellet, Albert F., Jersey City, N. J. Optical device. 1,681,874; Aug. 21.
Pacent Radio Corporation. (See Goudy, Carl F., assignor.)
Packard, Ernest B., Rockland, Me. Valve-reversing mechanism. 1,681,307; Aug. 21.
Padilla, Carlos E., Bogota, Columbia, South America. Lubricator. 1,681,645; Aug. 21.
Pahl, Karl, Heidelberg, Germany. Sheet piling. 1,681,593; Aug. 21.
Pangborn, Redmond H., Tacoma, Wash. Conveyer flight 1,681,429; Aug. 21.
Papas, John E., Chicago, Ill. Safety device for power punch presses. 1,681,646; Aug. 21.
Paris, Peter, et al. (See Losi, Lee F., assignor.)
Parker, Donald, Fresno, Calif. Washing and drying apparatus. 1,681,556; Aug. 21.
Parker, Earl L. (See Petersen, Peter, assignor.)
Parker, Samuel D., assignor to Darlo Company, Boston, Mass. Washing apparatus. 1,681,308; Aug. 21.
Pasternack, Richard, assignor to Charles Pfizer & Company, Brooklyn, N. Y. Laxative. 1,681,361; Aug. 21.
Patrick, Henry E. (See Pounds, H., and Patrick.)
Paulin, Josua G., Stockholm, Sweden. Apparatus for measuring variable forces. 1,681,309; Aug. 21.
Pearson, Charles H. (See Bold, Frederick W., assignor.)
Pearson, John T., and R. H. Olley, assignors to Crouse-Hinds Company, Syracuse, N. Y. Cover for conduit-outlet boxes. 1,681,594; Aug. 21.
Peerless Motor Car Corporation, The. (See Slack, Frederic W., assignor.)
Penney, Loren W., Newton, assignor to Saco-Lowell Shops, Boston, Mass. Driving roll for revolving clearers. 1,681,875; Aug. 21.
Pensabene, Nicolo, London, England. Dynamo-electric machine. 1,681,780; Aug. 21.
Pentler, Sigmund J., and O. R. Short, Wausau, Wis. Stitch-down shoe and making the same. 1,681,623; Aug. 21.
Perfection Cooler Company. (See Cook, Fred W., assignor.)
Perfection Stove Company. (See Resek, Marc, assignor.)
Petersen, Peter, assignor of one-half to E. L. Parker, Los Angeles, Calif. Door catch and fastener. 1,681,679; Aug. 21.
Peterson, Conrad N., Camp Kearney, Calif. Container-cap means. 1,681,743; Aug. 21.
Peterson, Johan G., Hartford, Conn. Electric connecting plug. 1,681,908; Aug. 21.
Peterson, Johann G., West Hartford, Conn. Electric connecting plug. Re17,068; Aug. 21.
Peterson, Oscar, Dent, Minn. Toy pushcart. 1,681,876; Aug. 21.
Pfaehler, Richard. (See Lee, W. S., Pfaehler, and Nabow.)
Pfizer, Charles, & Company. (See Pasternack, Richard, assignor.)
Phillips, George P., Boston, Mass. Dental articulator. 1,681,557; Aug. 21.
Pierce, Robert C., assignor to National-Standard Company, Niles, Mich. Bead for pneumatic tires. 1,681,680; Aug. 21.
Pigg, Wharton H., Canon City, Colo. Seed-potato cutter. 1,681,681; Aug. 21.
Pike, Albert, Winthrop, assignor to Darlo Company, Boston, Mass. Dishwashing apparatus. 1,681,362; Aug. 21.
Pilcher, John A., Roanoke, Va. Coupler attachment. 1,681,781; Aug. 21.
Pilcher, John A., Roanoke, Va. Coupler attachment. 1,681,782; Aug. 21.
Pilcher, John A., Roanoke, Va. Draft connection. 1,681,783; Aug. 21.
Pilcher, John A., Roanoke, Va. Coupler yoke. 1,681,784; Aug. 21.
Pineles, Solomon M., Chicago, Ill., assignor to H. B. Staver. Dog-racing apparatus. 1,681,193; Aug. 21.
Pines Winter-Front Company. (See Raleigh, James F., assignor.)
Piper, Walter F. (See Beardsley, E. O., and Piper.)
Pipes, Pliny P., assignor to The Ohio Brass Company, Mansfield, Ohio. Welding rod. 1,681,904; Aug. 21.
Pitkin, George P., Bergenfield, N. J. Local anæsthetic syringe. 1,681,744; Aug. 21.
Pohl, Edward, New York, N. Y., assignor to Neutrasol Products Corporation. Coating for textile threads. 1,681,745; Aug. 21.
Pomeranz, Jacob J., Brooklyn, N. Y. Nose bridge for eyeglasses. Des. 76,150; Aug. 21.
Portable Adding Machine Company. (See Barrett, Glenn J., assignor.)
Potter, Benjamin F., Ashland, Ky. Diluting device for internal-combustion engines. 1,681,430; Aug. 21.
Pounds, Hoyle, and H. E. Patrick, Winter Garden, Fla. Duster for Ford trucks. 1,681,877; Aug. 21.
Preble, George L. (See Eaton, Horace M., assignor.)
Premier Grand Piano Corporation. (See Hattemer, J., and Kauling, assignors.)
Pressed Steel Car Company. (See Suckfield, George A., assignor.)
Pribil, Alexis R., Saginaw, Mich. Oil gauge. 1,681,431; Aug. 21.
Prince, Frank E., Bangor, Me. Steamboat and like toy construction and printed blank therefor. 1,681,878; Aug. 21.
"Prodor" Fabrique de Produits Organiques S. A. (See Lévy, Marcel, assignor.)
Prouty, Charles N. (See Bowers, A. W., and Prouty.)
Pugh, John V., assignor to Rudge-Whitworth, Limited, Coventry, England. Wheel brake for vehicles. 1,681,432; Aug. 21.
Pullen, Myrick W. (See Lee, F. W., and Pullen.)
Putnam, Willis E., Worcester, Mass. Stepladder. 1,681,879; Aug. 21.
Pyrene-Minimax Corporation. (See Reddemann, Bernhard, assignor.)
Quarmby, Arthur H., Lansing, Mich. Muffler. 1,681,255; Aug. 21.
Raab, Leopold, Vienna, assignor to Oesterreichische Daimler-Motoren Aktiengesellschaft, Wiener-Neustadt, Austria. Motor vehicle. 1,681,885; Aug. 21.
Racz, Ernest, assignor to Burroughs Adding Machine Company, Detroit, Mich. Office chair. Des. 76,151; Aug. 21.
Radio Corporation of America. (See Clough, Newsome H., assignor.)
Radio Corporation of America. (See Wright, George M., assignor.)
Railway Metal Products Company. (See Small, Arthur E., assignor.)
Raleigh, James F., River Forest, assignor to Pines Winter-Front Company, Chicago, Ill. Automobile heater. 1,681,256; Aug. 21.
Ramer, Sarah K., Vancouver, British Columbia, Canada. Card game. 1,681,683; Aug. 21.
Ramsey, George. (See Valentine, K. L., and Ramsey.)
Rauh, Frederic H., South Orange, assignor to J. Wiss & Sons Co., Newark, N. J. Clipper. 1,681,746; Aug. 21.
Rawling, Francis G., Madison, Wis. Producing acetic acid. 1,681,684; Aug. 21.
Ray, Alvis M., Tacoma, Wash. Display-card holder. 1,681,595; Aug. 21.
Ray, William R., San Francisco, Calif. Oil burner. 1,681,647; Aug. 21.
Read, Chester L., Rahway, N. J., assignor to American Smelting and Refining Company, New York, N. Y. Refining crude arsenic trioxide. 1,681,496; Aug. 21.
Read, Chester L., Rahway, and B. M. O'Harra, Westfield, N. J., assignors to American Smelting and Refining Company, New York, N. Y. Purifying sodium stannate solution. 1,681,497; Aug. 21.
Reddemann, Bernhard, Berlin-Lichterfelde, Germany, assignor to Pyrene-Minimax Corporation. Fire foam nozzle. 1,681,363; Aug. 21.
Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Scale frame. Des. 76,152; Aug. 21.
Regenerative Coal Gasification System. (See Travers, M. W., and Clark, assignors.)
Reich, Ernest, Chicago, Ill. Display booth. Des. 76,153; Aug. 21.
Reichard, Vern E., Stinnett, Tex. Pumping apparatus. 1,681,596; Aug. 21.
Reid, Frederick M., assignor to Fruehauf Trailer Company, Detroit, Mich. Vehicle spring suspension. 1,681,433; Aug. 21.
Reiner, Harry M., Bronx, N. Y. Toy roundabout. 1,681,310; Aug. 21.
Replogle, Daniel B., Berkeley, Calif., assignor to The Commerce Guardian Trust and Savings Bank, trustee, Toledo, Ohio. Air-way cleaning cabinet. 1,681,624; Aug. 21.
Reseg, Marc, Cleveland Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Stove. Des. 76,154; Aug. 21.
Resek, Marc, Cleveland Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Stove. Des. 76,155; Aug. 21.
Rex Manufacturing Company. (See Hull, Matthew R., assignor.)
Rhenania-Kunheim Verein Chemischer Fabriken A.-G. (See Rüsberg, F., and Schmid, assignors.)
Rice, George L., and L. E. Whitcomb, Chicago, Ill., assignors to International Harvester Company. Feeder for fiber breakers. 1,681,498; Aug. 21.
Richardson, Holden C., Washington, D. C. Apparatus for launching torpedoes. 1,681,434; Aug. 21.
Richardson, Maurice F., Berwyn, Pa. Valve. 1,681,364; Aug. 21.
Richie, James K., Butler, Pa. Holder. 1,681,785; Aug. 21.
Rickles, Samuel, Seattle, Wash. Coffee-sack holder. 1,681,786; Aug. 21.
Ricks, Fred. Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe stiffener and method of making it. 1,681,257; Aug. 21.
Ric-Wil Company, The. (See Gottwald, Christian, assignor.)
Ripken, Hugo F., assignor of one-half to C. A. McCulloch, Minneapolis, Minn. Oil pump for steam engines. 1,681,787; Aug. 21.
Ritter, Julius, jr., assignor to Hartmann Trunk Company, Racine, Wis. Trunk construction. 1,681,365; Aug. 21.
Roberts, William O., Houston, Tex., and R. J. Keays, San Francisco, Calif. Insect trap. 1,681,625; Aug. 21.
Robinson Packer Company. (See Fry, William W., assignor.)
Rodgers, Chesley, Cedar Rapids, Iowa. Tourist's combination cabinet. 1,681,685; Aug. 21.
Roessler & Hasslacher Chemical Company, The. (See Storch, Henry H., assignor.)
Roessler & Hasslacher Chemical Co., The. (See Whitby, George S., assignor.)

Rogers, Charles F., Detroit, Mich. Timer. 1,681,366; Aug. 21.
Rolfe, George B., assignor to Evershed & Vignoles, Limited, London, England. Electrical testing instrument. 1,681,367; Aug. 21.
Rome Manufacturing Company. (See Schneible, Frank W., assignor.)
Root, Charles S., Springfield, Mass. Rubbing machine. 1,681,648; Aug. 21.
Rossi, Ruggiero, Ellwood City, Pa. Sled. 1,681,686; Aug. 21.
Rowley, Clifford A., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Width maintainer for continuous sheet glass. 1,681,258; Aug. 21.
Ruckel, Harvey H., Pittsburgh, Pa. Static eliminator. 1,681,788; Aug. 21.
Ruckelshaus, John G., Newark, N. J. Sign flasher. 1,681,194; Aug. 21.
Rüdenberg, Reinhold, Berlin-Grunewald, R. G. Berthold, Berlin-Siemensstadt, and K. Bonat, Berlin-Charlottenburg, assignors to Siemens-Schuckterwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Device for breaking the connections of electric circuits. 1,681,196; Aug. 21.
Rudge-Whitworth, Limited. (See Pugh, John V., assignor.)
Rueff, Renée, assignor to Société Économique de Paris, Paris, France. Vessel with handles. 1,681,197. Aug. 21
Runge, Otto, C., Baltimore Md., assignor to Standard Oil Dereloprevent Company. Tube cleaner. 1,681,886; Aug. 21.
Rüsberg, Friedrich, Mannheim, and P. Schmid, Mannheim-Wohlgelegen, assignors to the firm Rhenania-Kunheim Verein Chemischer Fabriken A.-G., Berlin, Germany. Producing zirconium compounds. 1,681,195; Aug. 21.
Russell, Edward A. (See Gold, E. H., and Russell.)
Russell, Edward A., assignor to Vaper Car Heating Company, Inc., Chicago, Ill. Flexible pipe joint. 1,681,626; Aug. 21.
Russell, Frank J., Wauwatosa, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor controller. 1,681,435; Aug. 21.
Russell, Rufus A., jr., San Diego, Calif. Automobile headlight. 1,681,909; Aug. 21.
Rychtarik Richard, assignor to The Superior Foundry Company, Cleveland, Ohio. Table. Des. 76,156; Aug. 21.
Rychtarik, Richard, assignor to The Superior Foundry Company, Cleveland, Ohio. Radiotable. Des. 76,157; Aug. 21.
Rychtarik, Richard, assignor to The Superior Foundry Company, Cleveland, Ohio. Chair. Des. 76,158; Aug. 21.
S. & U. Holding Company, Inc. (See Sibley, James T., assignor.)
Saco-Lowell Shops. (See Feaster, E. B., and Almy, assignors.)
Saco-Lowell Shops. (See Feaster, E. B., and Arnold, assignors.)
Saco-Lowell Shops. (See Penney, Loren W., assignor.)
Saint Ogan, Alain, Paris, France, assignor to L. Dangel. Statuette or similar article. Des. 76,159; Aug. 21.
St. Onge, Amasa, Providence, R. I. Cotton-picking machine. 1,681,555; Aug. 21.
Sandwell, Percy. (See Bell-Irving, R., and Sandwell.)
Sanford, Hugh W., Knoxville, Tenn. Faucet. 1,681,597; Aug. 21.
Sargent Engineering Corporation. (See Sargent, Sumner B., assignor.)
Sargent, Sumner B., Los Angeles, Calif., assignor to Sargent Engineering Corporation. Sucker-rod rotor. 1,681,789; Aug. 21.
Sauer, John W., Chicago, Ill. Etching solution. 1,681,499; Aug. 21.
Saunders, Albert F., Syracuse, assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Teapot construction (pottery body). 1,681,598; Aug. 21.
Sawyer, Gregg E. (See Smith, J. W., Sawyer, and Martin.)
Sawyer, Joseph W., Millbridge, Me. Process and apparatus for cleaning berries. 1,681,627; Aug. 21.
Schaefer, Joseph. (See Warner, R. J., and Schaefer.)
Schaffer, Ernest C., et al. (See Biette, Henry C., assignor.)
Schlagenhaufer, Josef, Munich, Germany, assignor, by mesne assignments, to General Electric Company. Electric switch. 1,681,558; Aug. 21.
Schlaich, Herman, assignor to Motormeter Company, Inc., Long Island City, N. Y. Radiator cap. Des. 76,160; Aug. 21.
Schmid, Paul. (See Rüsberg, F., and Schmid.)
Schmid, Werner, White Plains, N. Y. Embroidered textile fabric. Des. 76,161; Aug. 21.
Schmid, Werner, White Plains, assignor to A., E., J., L., and S. Dreifuss, copartners doing business as National Lace and Embroidery Company, New York, N. Y. Embroidered textile fabric. Des. 76,162; Aug. 21.
Schmit Trunk Company, The. (See Suelflow, Emil O., assignor.)
Schneible, Frank W., assignor to Rome Manufacturing Company, Rome, N. Y. Machine for making lock-joint tubing. 1,681,880; Aug. 21.
Schneider, Ernst, Vienna, Austria. Blade wheel. 1,681,500; Aug. 21.
Schorger, Arlie W., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Priming mixture. 1,681,259; Aug. 21.
Schraysshuen, Carl, assignor to Speidel Chain Co., Providence, R. I. Band bracelet. 1,681,687; Aug. 21.
Schwarzkopf, Erich, Long Island City, and G. Wodtke, New York, N. Y. Electrocardiograph. 1,681,628; Aug. 21.
Schweiker, Roy W., Lansdale, Pa. Convenience outlet for lighting fixtures. 1,681,437; Aug. 21.
Scott, Merle H. (See Johnston, M., and Scott.)
Scott, Walter M. (See Barnhart, Joseph R., assignor.)
Scourtes, Nick, and P. Karouzos, Detroit, Mich. Toy aeroplane vehicle. 1,681,438; Aug. 21.
Scuse, Alvin A., Rochester, N. Y. Printing machine. 1,681,905; Aug. 21.
Sears, Victor H., New York, N. Y. Artificial teeth. 1,681,436; Aug. 21.
Seebach, Fritz, assignor to Bakelite Gesellschaft m. b. H., Erkner, near Berlin, Germany. Purifying phenolaldehyde resins. 1,681,368; Aug. 21.
Seebach, Fritz, assignor to Bakelite Gesellschaft m. b. H., Erkner, near Berlin, Germany. Purifying phenolaldehyde resins. 1,681,369; Aug. 21.
Seeger, Adolph M., assignor to The Seeger Device Company, Toledo, Ohio. Pushing and pulling tool. 1,681,370; Aug. 21.
Seeger Device Company, The. (See Seeger, Adolph M., assignor.)
Shanck, Roy B. (See Branson, D. E., and Shanck.)
Sharpsville Boiler Works Co. (See Fagan, Charles D., assignor.)
Shaw, Paul N., Cleveland, Ohio. Tool for taking up tappets and the like. 1,681,881; Aug. 21.
Shawmut Engineering Company. (See Bixby, Walter, assignor.)
Shawmut Engineering Company. (See Hathaway, E. F., and Bixby, assignors.)
Sheldon, Waldo, Greenwich, Conn. Well drilling. 1,681,501; Aug. 21.
Sheldon, Waldo, South Norwalk, Conn. Well-drilling apparatus. 1,681,502; Aug. 21.
Shenton, Francis, assignor to Frick Company, Waynesboro, Pa. Fluid-regulating valve. 1,681,439; Aug. 21.
Sherman, Alvin G., and A. Meadows, assignors to Detroit Vapor Stove Company, Detroit, Mich. Continuous glass enameling. 1,681,440; Aug. 21.
Sherman, Alvin G., and A. Meadows, assignors to Detroit Vapor Stove Company, Detroit, Mich. Continuous porcelain mill. 1,681,441; Aug. 21.
Shook, Albert M., San Diego, Calif. Card display and holding means. 1,681,375; Aug. 21.
Short, Otto R. (See Pentler, S. J., and Short.)
Shortt, Howard G., Carthage, assignor of one-half to Stebbins Engineering and Manufacturing Company, Watertown, N. Y. Automatic receiver pump. 1,681,747; Aug. 21.
Shotwell, Fred M., Detroit, Mich., assignor to H. W. Krueger, trustee, Green Bay, Wis. Card file. 1,681,629; Aug. 21.
Shredded Wheat Company, The. (See Webster, Earl P., assignor.)
Siskel, Daniel. (See Miller, A. P., and Siskel.)
Sibley, Edwin J., Westbury, N. Y. Casement window. 1,681,260; Aug. 21.
Sibley, Edwin J., Westbury, N. Y. Combined shutter hook and spring. 1,681,261; Aug. 21.
Sibley, James T., assignor to S. & U. Holding Company Inc., New York, N. Y. Impulse electric motor. 1,681,649; Aug. 21.
Siemens-Schuckterwerke Gesellschaft mit beschränkter Haftung. (See Rüdenberg, R., Berthold, and Donat, assignors.)
Silverman, Jacob F., Brooklyn, N. Y. Pocket-space stamping machine. 1,681,882; Aug. 21.
Simescu, Marin M., Youngstown, Ohio. Trimming and cutting tool. 1,681,688; Aug. 21.
Simmons Company. (See Gall, John F., assignor.)
Simon, Franklin & Company. (See Burns, Katherine E., assignor.)
Simpson, Robert W., assignor of one-half to E. A. Kemp, New York, N. Y. Disk-wheel and demountable-rim construction. 1,681,503; Aug. 21.
Singer Manufacturing Company, The. (See Eames, G. M., and Webb, assignors.)
Sipe, George B., Shreveport, La. Producing and placing piles. 1,681,883; Aug. 21.
Skedgell, David E., assignor to The Millville Manufacturing Company, Millville, N. J. Stop motion for looms. 1,681,887; Aug. 21.
Skedgell, David E., assignor to Millville Manufacturing Company, Millville, N. J. Stop motion for looms. 1,681,888; Aug. 21.
Slack, Frederic W., assignor, by mesne assignments, to The Peerless Motor Car Corporation, Cleveland, Ohio. Tire carrier. 1,681,748; Aug. 21.
Slade, Edward, New York, N. Y. Clutch disk. 1,681,371; Aug. 21.
Slaght, Daniel C., Easton, Pa. Internal-combustion engine. 1,681,910; Aug. 21.
Slate Aircraft Corporation. (See Slate, Thomas B., assignor.)

Slate, Thomas B., Glendale, Calif., assignor to Slate Aircraft Corporation. Constructing the hulls of airships. 1,681,790; Aug. 21.
Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. 1,681,198; Aug. 21.
Slick, Edwin E., assignor to United States Glass Company, Pittsburgh, Pa. Condiment holder. Des. 76,163; Aug. 21.
Sloane, Joseph C., assignor of one-half to A. T. Harrow, Detroit, Mich. Automobile signal. 1,681,791; Aug. 21.
Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Integral means for reenforcing metallic plates. 1,681,442; Aug. 21.
Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Metal structure for railway cars. 1,681,811; Aug. 21.
Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Metal structure for railway cars. 1,681,812; Aug. 21.
Small, Arthur E., Chicago, Ill., assignor to P. H. Murphy Company, New Kensington, Pa. Railway-car roof. 1,681,813; Aug. 21.
Small, Arthur E., assignor to Railway Metal Products Company, Chicago, Ill. Side door for railway box cars. 1,681,814; Aug. 21.
Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Drop door for railway cars. 1,681,815; Aug. 21.
Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Metallic structure for railway cars. 1,681,816; Aug. 21.
Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Metallic structure for railway cars. 1,681,817; Aug. 21.
Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Metallic structure for railway cars. 1,681,818; Aug. 21.
Small, Arthur E., Chicago, Ill., assignor to P. H. Murphy Company, New Kensington, Pa. Railway-car roof. 1,681,819; Aug. 21.
Small, Arthur E., assignor Railway Metal Products Company, Chicago, Ill. Side door for railway cars. 1,681,820; Aug. 21.
Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Corrugated drop door for railway cars. 1,681,821; Aug. 21.
Small, Arthur E., assignor to Railway Metal Products Company, Chicago, Ill. Railway-car side door. 1,681,822; Aug. 21.
Small, Arthur E., assignor to Uhlon Metal Products Company, Chicago, Ill. Railway-car drop door. 1,681,823; Aug. 21.
Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Corrugated metallic plate. 1,681,824; Aug. 21.
Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Embossed metallic plate. 1,681,825; Aug. 21.
Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Embossed metallic plate for railway cars. 1,681,826; Aug. 21.
Smith, Arthur, assignor to The Barrett Bindery Company, Chicago, Ill. Combination tool. 1,681,749; Aug. 21.
Smith, Bryce A., Glendale, Calif. Attachment for thread spools. 1,681,263; Aug. 21.
Smith, Clinton F., Boston, Mass. Cut-off valve. 1,681,372; Aug. 21.
Smith, Hannah M., administratrix. (See Smith, Owen P.)
Smith, Harry M., Cranford, N. J., assignor to The Aeolian Company. Combination stop action for organs. 1,681,373; Aug. 21.
Smith, John W., Dayton, Ohio. Gate. 1,681,374; Aug. 21.
Smith, John W., G. E. Sawyer, and V. L. Martin, Independence, Kans. Oil and gas well packer. 1,681,262; Aug. 21.
Smith, Owen P., deceased; H. M. Smith, administratrix, Miami, Fla. Rail brush for electric cars. 1,681,650; Aug. 21.
Smith, Vernon B., Chicago, Ill. Paper bird puzzle. Des. 76,164; Aug. 21.
Smithe, F. L., Machine Co. (See Smithe, Frank B., assignor.)
Smithe, Frank B., assignor to F. L. Smithe Machine Co., Inc., New York, N. Y. Liquid-level gauge. 1,681,504; Aug. 21.
Snavely, Clarence S., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Light signal. 1,681,792; Aug. 21.
Snell, Eugene E. (See Baird, R. C., and Snell.)
Snook, Homer C., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Sound recording and reproduction. 1,681,376; Aug. 21.
Societe Anonyme Cribla. (See Bascour, Firmin, assignor.)
Société Anonyme des Automobiles et Cycles Peugeot. (See Koechlin, Isaac, assignor.)
Société Economique de Paris. (See Rueff, Renée, assignor.)
Societe Generale des Mandrins "Brevets Beck." (See Beck, Frederic, assignor.)
Societe Parisienne Des Produits De Beaute "Ganna Walska". (See Liddell, Robert, assignor.)
Sohst, Otto. (See Wagner, H., and Sohst.)
Solar Lighting Fixture Co. (See Strom, Olaf S., assignor.)
Somers, William A. (See Goodman, J., and Somers.)
Sozonian Burial Vault Company, The. (See Grund, Fletcher D., assignor.)
Speidel Chain Co. (See Schraysshuen, Carl, assignor.)
Spencer, John A., Revere, assignor to Spencer Thermostat Company, Cambridge, Mass. Train-heating system. 1,681,911; Aug. 21.
Spencer, John A., Revere, assignor to Spencer Thermostat Company, Cambridge, Mass. Lubricating device. 1,681,912; Aug. 21.
Spencer Perfume Company. (See Bicks, Jean W., assignor.)
Spencer Thermostat Company. (See Spencer, John A., assignor.)
Sperry Gyroscope Company, The. (See Kortepeter, R. E., and Amundsen, assignors.)
Spitzer, Maurice, New York, N. Y. Packing box. 1,681,199; Aug. 21.
Spurlin, Ira V., Hamilton, Ohio. Dustpan for floor-surfacing machines. 1,681,506; Aug. 21.
Stack, Elmer S., Somerville, Mass. Storage water heater. 1,681,377; Aug. 21.
Stamford Wall Paper Company. (See Leitch, Frank E., assignor.)
Standard Oil Company. (See Bransky, Oscar E., assignor.)
Standard Oil Company. (See Brewster, Oswald C., assignor.)
Standard Oil Company. (See Moore, John E., assignor.)
Standard Oil Development Company. (See Burgess, Louis, assignor.)
Standard Oil Development Company. (See Howard, Frank A., assignor.)
Standard Oil Development Company. (See Runge, Otto C., assignor.)
Star Chandelier Co. (See Bochringer, John A., assignor.)
Star Detachable Towel Holder Co. (See Hubinger, George M., assignor.)
Staver, Harry B. (See Pineles, Solomon M., assignor.)
Stead, Lawrence A. (See Carlson, E. E., and Stead.)
Steam Vehicle Corporation of America. (See White, Raymond E., assignor.)
Stebbins Engineering and Manufacturing Company. (See Shortt, Howard G., assignor.)
Steimmig, Gerhard. (See Knorr, A., and Steimmig.)
Steiner, Amos P., assignor to Landis Tool Company, Waynesboro, Pa. Flexible coupling. 1,681,793; Aug. 21.
Steinman, Harry H., St. Paul, Minn. Antifrost device for windows. 1,681,443; Aug. 21.
Steinmayer, Alwin G., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Insulator. 1,681,378; Aug. 21.
Stephenson, Hugh M., Fort Wayne, Ind., assignor to General Electric Company. Sewing-machine-bobbin winder. 1,681,559; Aug. 21.
Stern, Ottokar, Vienna, Austria. Arrangement for laying foundations. 1,681,689; Aug. 21.
Stevens, Edward W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Shaft packing. 1,681,444; Aug. 21.
Stewart-Warner Speedometer Corporation. (See Olsen, John K., assignor.)
Stock, Josef, Hochst-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Nitro-2 3-dichlor-1.4-naphthoquinone and preparing the same. 1,681,599; Aug. 21.
Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Automatic player piano. 1,681,889; Aug. 21.
Stokes, John S. (See Torrison, Egil R., assignor.)
Stoner, Paul, assignor to Landis Tool Company, Waynesboro, Pa. Crowning device for roll-grinding machines. 1,681,794; Aug. 21.
Storch, Henry H., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Synthesis of organic compounds. 1,681,750; Aug. 21.
Storch, Henry H., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Synthesis of methanol. 1,681,751; Aug. 21.
Storch, Henry H., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Synthesis of methanol. 1,681,752; Aug. 21.
Storch, Henry H., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Synthesis of methanol. 1,681,753; Aug. 21.
Straub, John, Ashley, N. Dak. Telephone stand or equipment. 1,681,754; Aug. 21.
Strom, Olaf S., assignor to Solar Lighting Fixture Co., Los Angeles, Calif. Lighting-fixture bracket. Des. 76,165; Aug. 21.
Stroth, Otto C., and P. R. Lempke, Dover, N. H. Nut-cooking machine. 1,681,505; Aug. 21.
Suckfield, George A., Avalon, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Car construction. 1,681,200; Aug. 21.
Suellow, Emil O., assignor to The Schmit Trunk Company, Oshkosh, Wis. Trunk. 1,681,264; Aug. 21.
Sullivan, Raymond H., assignor to North East Electric Company, Rochester, N. Y. Electric system. 1,681,265; Aug. 21.
Superior Foundry Company, The. (See Rychtarik, Richard, assignor.)
Suzuki, Saburosuke. (See Takayama, Yoshitaro, assignor.)
Swartz, Orlo E. (See Lahr, H. I., and Swartz.)
Symington, T. H., & Son, Inc. (See Martin, Mark H., assignor.)

Syracuse Washing Machine Corporation. (See Bliss, Donald M., assignor.)
T. & L. Co., The. (See Tueckmantel, Hugo, assignor.)
Takayama, Yoshitaro, Kolshikawa Ku, Tokyo, assignor to Saburosuke Suzuki, Tokyo, Japan. Collecting inorganic potassium salt, betain salt, and glutamic acid from the waste liquor produced in distilling alcohol from fermented beet molasses. 1,681,379; Aug. 21.
Tallaferro, Thomas L., Chicago, Ill. Continuous vacuum jar-closing machine. 1,681,445; Aug. 21.
Taman, Joseph M., assignor of one-half to W. Taman, Minneapolis, Minn. Pedal lock. 1,681,380; Aug. 21.
Taman, Walter. (See Taman, Joseph M., assignor.)
Tambone, Dominick, New York, N. Y. Interlocking brick construction. 1,681,631; Aug. 21.
Tatz, Paul, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Coupling between radio apparatus and high-tension transmission line. 1,681,560; Aug. 21.
Tausend, Felix, New York, N. Y. Artificially-hemstitched fabric. 1,681,827; Aug. 21.
Taylor, Harvey B., Philadelphia, Pa. Hydraulic power system. 1,681,711; Aug. 21.
Taylor, Harvey B., Philadelphia, Pa. Hydraulic turbine. 1,681,712; Aug. 21.
Taylor, John C., jr., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Bushed manganese steel sheave and the like. 1,681,906; Aug. 21.
Taylor-Wharton Iron and Steel Company. See Taylor, John C., jr., assignor.)
Techmer, Ewald F., Chicago, Ill. Wall construction. 1,681,311; Aug. 21.
Thatcher, Linden A., Belleville, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,681,312; Aug. 21.
Thermal Industrial and Chemical (T. I. C.) Research Company Limited. (See Morgan, John S., assignor.)
Thieme, Otto, Hartford, Conn., assignor, by mesne assignments, to Elliott-Fisher Company, New York, N. Y. Typewriting machine. 1,681,266; Aug. 21.
Thomas, Adolph A. (See Blieberger, Charles, assignor.)
Thomas, George J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Vehicle wheel brake. 1,681,630; Aug. 21.
Thomas, Thomas H., Edgewood, and C. A. Nelson, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,681,561; Aug. 21.
Thompson, Russell G., assignor, by mesne assignments, to North East Appliances, Inc., Rochester, N. Y. Power mechanism. 1,681,267; Aug. 21.
Thompson, William G. J., Clinton, Mass. Bottle cap. 1,681,828; Aug. 21.
Thurlow, Edward W., Middle Brighton, assignor to Vu'can Rubber Proprietary Limited, Kensington, Victoria, Australia. Mold for rubber tires. 1,681,713; Aug. 21.
Tice, Reuben S., Monterey, assignor of one-half to Arthur L. Holcomb, San Jose, Calif. Thermostatic control. 1,681,446; Aug. 21.
Tintera, William J., Yonkers, N. Y. Vending machine. 1,681,601; Aug. 21.
Titcomb, Lee R., Brooklyn, assignor to Auto-Meter Co. Inc., New York, N. Y. Float-operated rheostat. 1,681,268; Aug. 21.
Toledo Scale Company. (See Reeves, Orwell C., assignor.)
Tolman, Edgar B., jr., Chicago, Ill. Conveyer. 1,681,381; Aug. 21.
Tomlinson, Guy A., Detroit, Mich. Ring setting. Des. 76,166; Aug. 21.
Torkelson, John L., Burke, Idaho. Elastic-fluid cleaner. 1,681,382; Aug. 21.
Torrison, Egil R., Philadelphia, assignor to John S. Stokes, Huntington Valley, Pa. Matrix and making the same. 1,681,447; Aug. 21.
Travers, Morris W., London, and F. W. Clark, Lymm, assignors to Regenerative Coal Gasification System, Limited, Manchester, England. Apparatus for the manufacture of mixed gas. 1,681,313; Aug. 21.
Trimont Manufacturing Company. (See Kenerson, Joseph E., assignor.)
Trumbull Electric Manufacturing Company, The. (See Getchel, Benjamin E., assignor.)
Truscon Steel Company, The. (See White, Herbert E., assignor.)
Tucker, Floyd C. (See Tucker, Seth L. and F. C.)
Tucker, Seth L. and F. C., Hornell, N. Y. Automobile headlight and control mechanism. 1,681,448; Aug. 21.
Tueckmantel, Hugo, assignor to The T. & L. Co., Inc., Newark, N. J. Bag partition. 1,681,269; Aug. 21.
Tullar, William E., Chicago, Ill. Clutch. 1,681,714; Aug. 21.
Turk, William, Minden, Iowa. Match case and igniting device. 1,681,270; Aug. 21.
Turner, Fred D. (See Drees, Frank A., assignor.)
Turner Glass Company. (See Edwards, Wilson D., assignor.)
Tyndall, Jessie C., St. Louis, Mo. Automobile radiator cap. Des. 76,167; Aug. 21.
Underwood Elliott Fisher Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Elliott Fisher Company. (See Kurowski, Alden A., assignor.)
Union Draft Gear Company. (See Cotton, Walter H., assignor.)
Union Metal Products Company. (See Small, Arthur E., assignor.)
Union Special Machine Company. (See Biddle, John M., assignor.)
Union Special Machine Company. (See Moffatt, James R., assignor.)
Union Switch & Signal Company, The. (See Snavely, Clarence S., assignor.)
United Shoe Machinery Corporation. (See Barclay, William R., assignor.)
United Shoe Machinery Corporation. (See Bunker, Darius W., assignor.)
United Shoe Machinery Corporation. (See Erskine, Thomas C., assignor.)
United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)
United Shoe Machinery Corporation. (See Glass, Perley R., assignor.)
United Shoe Machinery Corporation. (See Ricks, Fred, assignor.)
United States Glass Company. (See Slick, Edwin E., assignor.)
Universal Oil Products Company. (See Halle, Hiram J., assignor.)
Valentine, Kathryn L., and G. Ramsey, Jersey City, N. J. Overshoe. Des. 76,168; Aug. 21.
Valley Rubber Company. (See Mulholland, Thomas, assignor.)
Van Loon, Christiaan, Dordrecht, Netherlands. Preparing alkali-metal alcoholates of compounds containing alcoholic hydroxyl groups. 1,681,600; Aug. 21.
Vapor Car Heating Company. (See Gold, E. H., and Russell, assignors.)
Vapor Car Heating Company. (See Russell, Edward A., assignor.)
Vawter, Charles E., Philadelphia, Pa. Fuel gauge for motor vehicles. 1,681,314; Aug. 21.
Vernay, Jean B., Villeurbanne, France. Drying apparatus. 1,681,690; Aug. 21.
Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
Visualatone Company of America. (See Burton, Isaac F., assignor.)
Von Frommer, Rudolf, Budapest, Hungary. Safety mechanism for firearms. 1,681,315; Aug. 21.
Vulcan Rubber Proprietary Limited. (See Thurlow, Edward W., assignor.)
Wachter, Henry F. A., Peru, Ill. Angle bar for show windows and the like. 1,681,201; Aug. 21.
Wagner, Hermann, Soden, and O. Sohst, Hochst-on-the-Main, Germany, assignors, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Azo dyestuffs and making same. 1,681,602; Aug. 21.
Wagner Manufacturing Company. (See Lang, Philip, assignor.)
Waller, Paul H., London, England. Electrical display apparatus. 1,681,795; Aug. 21.
Walsh, Robert C., St. Louis, Mo. Merchandising cabinet. 1,681,383; Aug. 21.
Walters, Herbert H., Syracuse, N. Y. Fireplace. 1,681,449; Aug. 21.
Wappler, Reinhold H., Yonkers, N. Y. Vehicle window. 1,681,507; Aug. 21.
Ward, Willis C., Orchard Lake, Mich. Safety appliance for aeroplanes. 1,681,202; Aug. 21.
Warner Jewelry Case Company. (See Warner, R. J., and Schaefer, assignors.)
Warner, Rudolph J., and J. Schaefer, assignors to Warner Jewelry Case Company, Buffalo, N. Y. Jewelry box. 1,681,755; Aug. 21.
Washburn, Lorenzo S., assignor to Norton Company, Worcester, Mass. Diffusion plate. 1,681,890; Aug. 21.
Waterman, Russell R. (See French, C. A., and Waterman.)
Waterman, Russell R., Long Beach, Calif., assignor to Farmers' National Bank, trustee, Greenville, Ohio. Operating control means for automotive steam-power plants. 1,681,508; Aug. 21.
Waters, Harry H., Clinton, Iowa, assignor to Climax Engineering Company. Clutch and control mechanism. 1,681,384; Aug. 21.
Waters, Vance S., Seattle, Wash. Minnow. 1,681,316; Aug. 21.
Way, William H., Ossining, N. Y. Ice-cutting machine. 1,681,715; Aug. 21.
Wayne Company. (See Brandt, William F., assignor.)
Webb, Irving F. (See Eames, G. M., and Webb.)
Weber Electric Company. (See Fabrey, William H., assignor.)
Webster, Duane E., assignor to Norton Company, Worcester, Mass. Manufacture of abrasive articles. 1,681,891; Aug. 21.
Webster, Earl P., assignor to The Shredded Wheat Company, Niagara Falls, N. Y. Carton-marking device. 1,681,716; Aug. 21.
Webster, Warren, & Company. (See Donnelly, James A., assignor.)
Weeks, Edmund G., Dunston, assignor of one-half to the firm Merz & McLellan, Engineers, Westminster, London, England. Low-temperature fuel distillation. 1,681,450; Aug. 21.
Weiner, Emil and H. Katims, New York, N. Y. Textile fabric. Des. 76,169; Aug. 21.
Wendell, Evert J., Wayne, Pa. Rotary pump. 1,681,796; Aug. 21.
Wendroff, Clifford H. (See Downey, P. V., and Wendroff.)

Wenholz, Walter W., assignor to General Signal Company, Rochester, N. Y. Train control. 1,681,892; Aug. 21.
Wenstrom, William H., Fort Bliss, Tex. Safety apparatus for airplanes. 1,681,562; Aug. 21.
Wesseler, William J., East Cleveland, Ohio. Method and apparatus for making articles having relatively rigid confining members and elastic cores. 1,681,829; Aug. 21.
West, Maxwell A., Portland, Oreg. Burglar alarm. 1,681,451; Aug. 21.
Westbrook, Leon R., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Cadmium plating. 1,681,509; Aug. 21.
Westerberg, Nils H., Hjorthagen Vartan, Sweden. Stud setting and loosening tool. 1,681,203; Aug. 21.
Western Electric Company. (See Anderegg, Gustavus A., assignor.)
Western Electric Company. (See Buckley, Oliver E., assignor.)
Western Electric Company. (See Elmen, Gustaf W., assignor.)
Western Electric Company. (See Gardner, Fred G., assignor.)
Western Electric Company. (See Johnston, John, assignor.)
Western Electric Company. (See Kuhn, John J., assignor.)
Western Electric Company. (See May, D. T., and McCormick, assignors.)
Western Electric Company. (See Norton, Edward L., assignor.)
Western Electric Company. (See Snook, Homer C., assignor.)
Western Glass Company, The. (See Jacklin, Leonard F., assignor.)
Western Union Telegraph Company, The. (See Dickie, Douglas P., assignor.)
Western Union Telegraph Company, The, et al. (See Locke, G. A., and Haglund, assignors.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Miller, Raymond E., assignor.)
Westinghouse Air Brake Company, The. (See Thomas, T. H., and Nelson, assignors.)
Westinghouse Air Brake Company, The. (See Whitaker, Uncas A., assignor.)
Wheeling Steel Corporation. (See Kielberg, Henry, assignor.)
Whitaker, Uncas A., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. 1,681,563; Aug. 21.
Whitby, George S., Montreal, Quebec, Canada, assignor to The Roessler & Hasslacher Chemical Co., New York, N. Y. Substituted thiuram polysulphides and making the same. 1,681,717; Aug. 21.
Whitcomb, Louie E. (See Rice, G. L., and Whitcomb.)
White, Herbert E., assignor to The Truscon Steel Company, Youngstown, Ohio. Fastening means for metal-roof decking. 1,681,830; Aug. 21.
White, Raymond E., assignor to Steam Vehicle Corporation of America, Newton, Mass. Water-level indicator. 1,681,452; Aug. 21.
Whitelock, James W., and J. W. Case, La Habra, Calif. Adjustable bearing. 1,681,204; Aug. 21.
Whitlow, Walter G., Roanoke, Va. Circuit breaker. 1,681,756; Aug. 21.
Whitmore, Horace G., Chicago, Ill. Awning. 1,681,757; Aug. 21.
Wicks, John, Oak Park, assignor by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,681,913; Aug. 21.
Wight, Thomas, Kansas City, Mo. Coping seal. 1,681,758; Aug. 21.
Wilcox, Lewis T., Peekskill, N. Y. Stove leg. Des. 76,170; Aug. 21.
Wilhelm, Ottmar, assignor to Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany. Intaglio printing machine. 1,681,603; Aug. 21.
Williams, Benjamin. (See Manderson, Oswald G., assignor.)
Williams, Clarence J., San Francisco, assignor to C. G. Burbank, Oakland, Calif. Hairpin for bobbed hair. 1,681,271; Aug. 21.
Williams, Harold E., Carthage, Mo. Awning for vehicles. 1,681,831; Aug. 21.
Williams, Samuel B., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,681,510; Aug. 21.
Williams, Theron H., Chicago, Ill. Shock absorber. 1,681,205; Aug. 21.
Wingen, Christian. (See Nicholson, William A., assignor.)
Winter, Joseph W., Penfield, assignor to John Wood Manufacturing Company, Conshohocken, Pa. Electric welding mechanism. 1,681,604; Aug. 21.
Wiss, J., & Sons Co. (See Rauh, Frederic H., assignor.)
Witter, Lawrence O., administrator. (See Witter, Osborne R.)
Witter, Osborne R., deceased, Swampscott, Mass.; L. O. Witter, administrator of said Osborne R. Witter. Window ventilator. 1,681,206; Aug. 21.
Wodtke, Gerhard. (See Schwarzkopf, E., and Wodtke.)
Wolfe, Walter G. (See Bell, L., and Wolfe.)
Wolff, Harry S., New Rochelle, N. Y. Stocking. Des. 76,171; Aug. 21.
Wollheim, Walter E. (See Morse, A. W., and Wollheim.)
Wolter, Herman H., assignor to The Miller Company, Meriden, Conn. Lighting fixture. Des. 76,172; Aug. 21.
Wolter, Herman H., assignor to The Miller Company, Meriden, Conn. Lighting fixture. Des. 76,173; Aug. 21.
Wood, John, Manufacturing Company. (See Winter, Joseph W., assignors.)
Woodruff, Shelley G., Inglewood, Calif. Rotary disk eccentric bit. 1,681,651; Aug. 21.
World Bestos Corporation. (See Heany, John A., assignor.)
Wright, George M., Chesterfield, England, assignor to Radio Corporation of America. Radio signaling system. 1,681,564; Aug. 21.
Wright, Henry H., assignor to M. S. Wright Company, Worcester, Mass. Brush. 1,681,453; Aug. 21.
Wright, M. S., Company. (See Wright, Henry H., assignor.)
Wulf, Joseph H., Tell City, Ind. Safety guard for ripsaws. 1,681,832; Aug. 21.
Yoshikawa, Hiroshi, Tokyo, Japan. Lead alloy. 1,681,272; Aug. 21.
Young, Charles P. (See Mount, F. R., and Young.)
Ytterberg, Arle, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Suppressing high harmonics in commutating electric machines. 1,681,632; Aug. 21.
Zweigle, Gottlob, Reutlingen, Germany. Testing the quality of cotton fibers and the like. 1,681,605; Aug. 21.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 21ST DAY OF AUGUST, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abrasive articles, Manufacture of. D. E. Webster. 1,681,891; Aug. 21.
Acid, Apparatus for the manufacture of sodium sulphate and hydrochloric. E. V. Benjamin. 1,681,760; Aug. 21.
Acid, Producing acetic. F. G. Rawling. 1,681,684; Aug. 21.
Acoustical device. J. J. Kuhn. 1,681,543; Aug. 21.
Adding machines, Accumulator-control means of. G. J. Barrett. 1,681,567; Aug. 21.
Aeroplane. A. M. Kennedy. 1,681,642; Aug. 21.
Aeroplane, Safety. H. D. Blasi. 1,681,761; Aug. 21.
Aeroplanes, Safety appliance for. W. C. Ward. 1,681,202; Aug. 21.
Aircraft landing and housing device. C. S. Hall. 1,681,637; Aug. 21.
Air heater, Fin-type. O. W. Ott. 1,681,428; Aug. 21.
Airplane. A. H. G. Fokker. 1,681,331; Aug. 21.
Airplanes, Safety apparatus for. W. H. Wenstrom. 1,681,562; Aug. 21.
Airship, Dirigible. R. P. Fox. 1,681,848; Aug. 21.
Airships, Constructing the hulls of. T. B. Slate. 1,681,790; Aug. 21.
Alarm: *See*—
Burglar alarm.
Alcoholates of compounds containing alcoholic hydroxyl groups, Preparing alkali-metal. C. Van Loon. 1,681,600; Aug. 21.
Alloy, Lead. H. Yoshikawa. 1,681,272; Aug. 21.
Alloy steel. H. B. Allen. 1,681,797; Aug. 21.
Anchor, Spot. G. H. Binder. 1,681,634; Aug. 21.
Anchor, Steel tie and rail. C. and B. A. Mulhern. 1,681,871; Aug. 21.
Animal trap. B. F. Hatchell. 1,681,804; Aug. 21.
Antifrost device for windows. H. H. Steinman. 1,681,443; Aug. 21.
Arm bracket, support. E. G. Busse. 1,681,462; Aug. 21.
Arsenic trioxide, Refining crude. C. L. Read. 1,681,496; Aug. 21.
Articles having a relatively rigid confining member and an elastic core, Method and apparatus for making. W. J. Wesseler. 1,681,829; Aug. 21.
Automobile heater. J. F. Raleigh. 1,681,256; Aug. 21.
Automobile jack. L. E. Beougher. 1,681,633; Aug. 21.
Automobile signal. J. C. Sloane. 1,681,791; Aug. 21.
Automobiles, Adjustable seat back for. R. M. Kimbro. 1,681,643; Aug. 21.
Automobiles, Screen means for. A. J. Maas. 1,681,300; Aug. 21.
Awning. H. G. Whitmore. 1,681,757; Aug. 21.
Awning, Automobile. W. M. Glover. 1,681,292; Aug. 21.
Awning for vehicles. H. E. Williams. 1,681,831; Aug. 21.
Bag: *See*—
Breather bag. Golf bag.
Baller. C. E. Coleston. 1,681,660; Aug. 21.
Bank-protecting device. J. W. Johnston. 1,681,481; Aug. 21.
Bar for show windows and the like, Angle. H. F. A. Wachter. 1,681,201; Aug. 21.
Beams, Production of expanded trussed. H. M. Gersman. 1,681,400; Aug. 21.
Bearing, Adjustable. J. W. Whitelock and J. W. Case. 1,681,204; Aug. 21.
Bearing for demountable spools. W. Bixby. 1,681,894; Aug. 21.
Bearing for saw-carriage piston rods, Auxiliary. B. A. Janik. 1,681,615; Aug. 21.
Bearing, Self oiling and aligning. E. E. Berry. 1,681,388; Aug. 21.
Bit: *See*—
Disk eccentric bit.
Blade wheel. E. Schneider. 1,681,500; Aug. 21.
Blind and screen, Combination. J. W. Green. 1,681,534; Aug. 21.
Block: *See*—
Re-railing block.
Blow and flue cleaner. J. H. Hobson. 1,681,478; Aug. 21.
Blower, Soot. L. J. Bayer, and F. A. Bayer. 1,681,165; Aug. 21.
Board: *See*—
Bowling game board.
Boat. W. A. Hickman. 1,681,342; Aug. 21.
Boat unloader. D. S. Munn. 1,681,742; Aug. 21.
Boiler: *See*—
Locomotive boiler.
Book, Duplicating record. E. Z. Lewis. 1,681,296; Aug. 21.
Book end. A. B. Andersen. Des. 76,113; Aug. 21.
Book, Manifolding. J. W. Anderson. 1,681,159; Aug. 21.
Boot and shoe stiffener. H. M. Eaton. 1,681,327; Aug. 21.
Bottle. W. D. Edwards. Des. 76,129–30; Aug. 21.
Bottle. L. Halk. Des. 76,133; Aug. 21.
Bottle. F. Javal. Des. 76,138; Aug. 21.
Bottle. R. Liddell. Des. 76,142; Aug. 21.
Bottle. G. N. Mas. Des. 76,147; Aug. 21.
Bottle cap. W. G. J. Thompson. 1,681,828; Aug. 21.
Bottle, Liquid-cooler. F. W. Cook. Des. 76,124; Aug. 21.
Bottle lock, Milk-. W. Bischan. 1,681,213; Aug. 21.
Bottle or similar container. J. W. Bicks. Des. 76,116; Aug. 21.
Bowl or similar article. G. Haviland. Des. 76,134; Aug. 21.
Bowl with wrist support. J. Brueck. 1,681,569; Aug. 21.
Bowling game board. J. Marczinko. 1,681,590; Aug. 21.
Box: *See*—
Display box. Packing box.
Jewelry box. Socket box.
Novelty box. Terminal box.
Boxes and the like, Making paper. S. Bergstein 1,681,212; Aug. 21.
Bracelet, Band. C. Schraysshuen. 1,681,687; Aug. 21.
Bracket: *See*—
Arm bracket.
Brake: *See*—
Electropneumatic brake. Steering-wheel brake.
Fluid-pressure brake. Wheel brake.
Brake cylinder. C. C. Farmer. 1,681,579; Aug. 21.
Brake equalizer, Automobile safety. O. L. Compton. 1,681,518; Aug. 21.
Brake for vehicles, Wheel. J. V. Pugh. 1,681,432; Aug. 21.
Brake mechanism. L. F. Losi. 1,681,354; Aug. 21.
Brake-pedal-holding means, Vehicle. A. C. McBride. 1,681,192; Aug. 21.
Brake-valve device. C. C. Farmer. 1,681,575; Aug. 21.
Braking mechanism for automobiles. E. P. du Pont. 1,681,224; Aug. 21.
Breather bag. J. E. Moore. 1,681,676; Aug. 21.
Brick construction, Interlocking. D. Tambone. 1,681,631; Aug. 21.
Brush. H. H. Wright. 1,681,453; Aug. 21.
Brush, Shaving. G. Boka. 1,681,836; Aug. 21.
Building material, Making. J. J. Miller. 1,681,493; Aug. 21.
Bullet and making same, Mushrooming. E. J. Johnson. 1,681,295; Aug. 21.
Bumper, Automobile. A. J. Musselman. 1,681,677; Aug. 21.
Burglar alarm. M. A. West. 1,681,451; Aug. 21.
Burner: *See*—
Hydrocarbon burner. Oil burner.
Burr for grindstones. W. B. McLean. 1,681,868; Aug. 21.
Cabinet, Air-way cleaning. D. B. Replogle. 1,681,624; Aug. 21.
Cabinet, Merchandising. R. C. Walsh. 1,681,383; Aug. 21.
Cabinet, Tourist's combination. C. Rodgers. 1,681,685; Aug. 21.
Cabinet, Towel. G. M. Hubinger. 1,681,614; Aug. 21.
Cabinet, Towel dispensing and storage. A. E. Carlson. 1,681,840; Aug. 21.
Cable wrench. M. Johnston and M. H. Scott. 1,681,482; Aug. 21.
Cables, Manufacture of. G. A. Anderegg. 1,681,566; Aug. 21.
Cadmium plating. L. R. Westbrook. 1,681,509; Aug. 21.
Calendar, Desk. W. C. Hering. 1,681,235; Aug. 21.
Can: *See*—
Oil can.
Car construction. G. A. Suckfield. 1,681,200; Aug. 21.
Car roof, Railway-. A. E. Small. 1,681,819; Aug. 21.
Cars, Air-pipe connection for articulated. A. T. Clark, H. A. Leonhauser, and J. R. Jester. 1,681,659; Aug. 21.
Cars, Metal structure for railway. A. E. Small. 1,681,811–12; Aug. 21.
Cars, Metallic structure for railway. A. E. Small. 1,681,816–18; Aug. 21.
Cars, Roof for railway. A. E. Small. 1,681,813; Aug. 21.
Carburetor. G. Kingston. 1,681,410; Aug. 21.
Carburetor. A. W. McCalmont. 1,681,358; Aug. 21.
Card, Metal. S. Klepfer. 1,681,411; Aug. 21.
Carrier: *See*—
Tire carrier.
Carrier support for switch and signal rods. J. C. Mock. 1,681,619; Aug. 21.
Carton. W. F. Folmer. 1,681,700; Aug. 21.

Carton-marking device. E. P. Webster. 1,681,716; Aug. 21.
Cartridges, Method and apparatus for packing. N. D. Fulton. 1,681,181; Aug. 21.
Case: *See*—
Vanity case.
Casing for use at filling stations, garages, and other places, Hose-winding-machine. A. B. Edwards. Des. 76,128; Aug. 21.
Casing, Gasoline-meter. C. D. Fagan. Des. 76,131; Aug. 21.
Casing, Well. W. W. Fry. 1,681,332; Aug. 21.
Casket rest and strap slide, Combined. F. D. Grund. 1,681,337; Aug. 21.
Cataract absorber. A. Asleson. 1,681,633–4; Aug. 21.
Catch and fastener, Door. P. Petersen. 1,681,679; Aug. 21.
Cellulose-xanthating process. W. Mendel. 1,681,900; Aug. 21.
Cementitious composition, Waterproof. J. D. Carter. 1,681,570; Aug. 21.
Chair. R. Rychtarik. Des. 76,158; Aug. 21.
Chuck, Automatic. F. Beck. 1,681,166; Aug. 21.
Cigarette-making appliance. O. G. Manderson. 1,681,738; Aug. 21.
Circuit breaker. W. G. Whitlow. 1,681,756; Aug. 21.
Circuit controller. A. W. Burke. 1,681,722; Aug. 21.
Circuits, Damping oscillating or alternating current. N. H. Clough. 1,681,517; Aug. 21.
Circuits, Device for breaking the connections of electric. R. Rüdenberg, R. G. Berthold, and K. Donat. 1,681,196; Aug. 21.
Circuits, Trunk. J. F. Dahl. 1,681,520; Aug. 21.
Clamp: *See*—
Classing clamp.
Clamps, Attachments for saw-filing. J. Kautz. 1,681,483; Aug. 21.
Classing clamp. A. Müller. 1,681,707; Aug. 21.
Cleaner: *See*—
Fluid cleaner. Tube cleaner.
Oil cleaner.
Cleaner for conical and cylindrical screens, Rotary screen. F. McAuliff. 1,681,422; Aug. 21.
Cleaning and burnishing metallic powders. J. A. Daly. 1,681,521; Aug. 21.
Cleaning berries, Process and apparatus for. J. W. Sawyer. 1,681,627; Aug. 21.
Clipper. F. H. Raub. 1,681,746; Aug. 21.
Closure. J. H. Dillon, and H. H. Fairweather. 1,681,661; Aug. 21.
Clothespin. W. R. Butner. 1,681,461; Aug. 21.
Clutch. W. E. Tullar. 1,681,714; Aug. 21.
Clutch and control mechanism. H. H. Waters. 1,681,384; Aug. 21.
Clutch disk. E. Slade. 1,681,371; Aug. 21.
Clutch, Easily-operated. E. H. Lichtenberg. 1,681,352; Aug. 21.
Coal, Stable suspension and paste of. R. Griessbach and J. Eisele. 1,681,335; Aug. 21.
Cock device, Angle-. C. C. Farmer. 1,681,580; Aug. 21.
Collars. Device used in the making of garment. N. J Maugini. 1,681,189; Aug. 21.
Combination switch. W. Kaisling. 1,681,241; Aug. 21.
Composite set. D. E. Branson and R. B. Shanck. 1,681,216; Aug. 21.
Compressor, Isothermal air. R. E. Bruckner. 1,681,280; Aug. 21.
Compressor, Rotary. C. C. Farmer. 1,681,574; Aug. 21.
Computing underwear sizes, Device for. N. G. Meyers. 1,681,740; Aug. 21.
Condensate-removing system. R. Bell-Irving and P. Sandwell. 1,681,344; Aug. 21.
Condenser, Electrical. W. H. Goodman. 1,681,884; Aug. 21.
Condenser, Variable. H. E. Beck. 1,681,907; Aug. 21.
Conduit construction for underground pipes. C. Gottwald. 1,681,731; Aug. 21.
Container. F. W. French. 1,681,287; Aug. 21.
Container-cap means. C. N. Peterson. 1,681,743; Aug. 21.
Containers alternately, Filling two. J. Lawson 1,681,588; Aug. 21.
Conveyer. W. E. Jones. 1,681,859; Aug. 21.
Conveyer. E. B. Tolman, jr. 1,681,381; Aug. 21.
Conveyer flight. R. H. Pangborn. 1,681,429; Aug. 21.
Cooking Machine, Nut-. O. C. Stroth and P. R. Lempke. 1,681,505; Aug. 21.
Copper from its ores, Recovering. A. Elliott. 1,681,528; Aug. 21.
Cotton-gin-breast-actuating device. T. M. Bruce. 1,681,837; Aug. 21.
Cotton-picking machine. A. St. Onge. 1,681,555; Aug. 21.
Coupler attachment. J. A. Pilcher. 1,671,781–2; Aug. 21.
Coupler for mine cars. A. D. and A. R. Koontz. 1,681,616; Aug. 21.
Coupler yoke. J. A. Pilcher. 1,671,784; Aug. 21.
Coupling: *See*—
Flexible coupling.
Coupling between rad'o apparatus and high-tension transmission line. P. Tatz. 1,681,560; Aug. 21.
Coupling member for attaching devices. D. Marinsky. 1,681,549; Aug. 21.
Cover for conduit-outlet boxes. J. T. Pearson and R. H. Olley. 1,681,594; Aug. 21.
Cover for garbage cans. H. Kielberg. 1,681,587; Aug. 21.
Covering for bathtubs and the like. R. E. Henry. 1,681,294; Aug. 21.
Covering the openings in perforated covers for containers with paper or like material, Apparatus for. C. A. Alexanderson. 1,681,718; Aug. 21.
Crushing apparatus. S. F. Ossing. 1,681,779; Aug. 21.
Current switch, Alternating-. F. W. Lee and M. W. Pullen. 1,681,774; Aug. 21.
Curtain rail and support therefor. R. C. Johnson. 1,681,345; Aug. 21.
Curtain support, Adjustable. W. Damm. 1,681,522; Aug. 21.
Cutter: *See*—
Potato cutter. Rotary cutter.
Cutter and cutting wheel therefor, Pipe. J. E. Kenerson. 1,681,807; Aug. 21.
Cutting apparatus, Rubber-strip-. T. Mulholland. 1,681,247; Aug. 21.
Cutting device. D. P. McLaughlin. 1,681,739; Aug. 21.
Dam. F. A. Noetzli. 1,681,427; Aug. 21.
Defating indicator. J. H. Clark. 1,681,608; Aug. 21.
Dental articulator. G. P. Phillips. 1,671,557; Aug. 21.
Dental instrument. H. E. S. Chayes and A. P. Jurgensen, 1,681,324; Aug. 21.
Denture, Removable. H. E. S. Chayes. 1,681,323; Aug. 21.
Deodorizing cooking. T. A. Gannon. 1,681,531; Aug. 21.
Detachable handle. B. Kumagai. 1,681,414; Aug. 21.
Dial, Speedometer. J. K. Olson. Des. 76,149; Aug. 21.
Diestock, Hand-operated. H. Bernaudin. 1,681,655; Aug. 21.
Diffusion plate. L. S. Washburn. 1,681,890; Aug. 21.
Digger: *See*—
Trench digger.
Dike or revetment. A. W. Farney. 1,681,636; Aug. 21.
Diluting device for internal-combustion engines. B. F. Potter. 1,681,430; Aug. 21.
Dioxan, Manufacture of. A. Knorr, and G. Steimmig. 1,681,861; Aug. 21.
Direction indicator. C. McGannon. 1,681,867; Aug. 21.
Dishwashing apparatus. A. Pike. 1,681,362; Aug. 21.
Dishwashing, Sterilizing, and drying machine. J. L. Breton. 1,681,839; Aug. 21.
Disk eccentric bit, Rotary-. S. G. Woodruff. 1,681,651; Aug. 21.
Disk-wheel and demountable-rim construction. R. W. Simpson. 1,681,503; Aug. 21.
Dispensing device. A. P. Miller and D. Siakel. 1,681,592; Aug. 21.
Display and holding means, Card. A. M. Shook. 1,681,375; Aug. 21.
Display board. F. T. Hayes. Des. 76,136; Aug. 21.
Display booth. E. Reich. Des. 76,153; Aug. 21.
Display box. A. E. Keppler. 1,681,347; Aug. 21.
Display device. G. F. Egan. 1,681,527; Aug. 21.
Ditcher. B. C. Clutter. 1,681,282; Aug. 21.
Dog-racing apparatus. S. M. Pineles. 1,681,193; Aug. 21.
Domestic appliance. F. J. Hardman. 1,681,404; Aug. 21.
Door for railway box cars, Side. A. E. Small. 1,681,814; Aug. 21.
Door for railway cars, Corrugated drop. A. E. Small. 1,681,821; Aug. 21.
Door for railway cars, Drop. A. E. Small. 1,681,815; Aug. 21.
Door for railway cars, Side. A. E. Small. 1,681,820; Aug. 21.
Door opener. L. E. Kupfer. 1,681,188; Aug. 21.
Door-operating mechanism, Elevator-. P. Lang. 1,681,545; Aug. 21.
Door, Railway-car drop. A. E. Small. 1,681,823; Aug. 21.
Door, Railway side. A. E. Small. 1,681,822; Aug. 21.
Draft connection. J. A. Pilcher. 1,681,783; Aug. 21.
Drainage device for window screens. C. C. Engelbart. 1,681,846; Aug. 21.
Dress. K. B. Burns. Des. 76,121; Aug. 21.
Drier. W. Donato. 1,681,175; Aug. 21.
Drill: *See*—
Rock drill. Submarine drill.
Drill press. G. E. Hallenbeck. 1,681,402; Aug. 21.
Drying apparatus. J. B. Vernay. 1,681,690; Aug. 21.
Duster for Ford trucks. H. Pounds and H. E. Patrick. 1,681,877; Aug. 21.
Dyestuff and making same, Azo. H. Wagner and O. Sohst. 1,681,602; Aug. 21.
Egg-candling device. S. G. Benzing. 1,681,387; Aug. 21.
Electric machine, Dynamo-. N. Penzabene. 1,681,780; Aug. 21.
Electric-machine stator, Dynamo-. J. M. Barr. 1,681,914–16; Aug. 21.
Electric machines, Suppressing high harmonics in commutating. A. Ytterberg. 1,681,632; Aug. 21.
Electric motor, Impulse. J. T. Sibley. 1,681,649; Aug. 21.
Electric switch. J. Schlagenhaufer. 1,681,558; Aug. 21.
Electric system. R. H. Sullivan. 1,681,265; Aug. 21.
Electrical conductor. J. Johnston. 1,681,541; Aug. 21.
Electrical display apparatus. P. H. Waller. 1,681,795; Aug. 21.
Electrical fitting. J. S. Jones and S. N. Mead, jr. 1,681,186; Aug. 21.
Electrocardiograph. E. Schwarzkopf and G. Wodtke. 1,681,628; Aug. 21.

Electropneumatic brake. U. A. Whitaker. 1,681,563; Aug. 21.
Emergency wheel, Vehicle. U. J. Haynes. 1,681,665; Aug. 21.
Engine. *See*—
Gas engine. Internal-combustion engine.
Engine and piston, Single-acting. W. Noble. 1,681,494; Aug. 21.
Engine mounting. H. Caminez. 1,681,219; Aug. 21.
Etching solution. J. W. Sauer. 1,681,499; Aug. 21.
Evaporator for refrigerating apparatus. S. Otto and L. Bruehl. 1,681,254; Aug. 21.
Eyeglasses, Nose bridge for. J. J. Pomeranz. Des. 76,150; Aug. 21.
Fabric: *See*—
Hemstitched fabric.
Fastener, Chain. E. Eckroat. 1,681,526; Aug. 21.
Fastener, End-gate. C. Hunt. 1,681,856; Aug. 21.
Fastener, Rail. S. Gagliardi and F. Brutto. 1,681,802; Aug. 21.
Fastener, Rug. R. J. Lindhorst. 1,681,417; Aug. 21.
Fastener-setting machine. P. R. Glass. 1,681,229; Aug. 21.
Fastener, Window. L. E. Murphy. 1,681,618; Aug. 21.
Fasteners, Coupling member for separable. D. Marinsky. 1,681,550; Aug. 21.
Fastening means for metal roof decking. H. E. White. 1,681,830; Aug. 21.
Faucet. H. W. Sanford. 1,681,597; Aug. 21.
Faucet connection. J. E. Conklin. 1,681,838; Aug. 21.
Feed tap, Safety positive-. R. M. Galloway. 1,681,289; Aug. 21.
Feeds for multiple tapping machines, Individual power. A. L. De Leeuw. 1,681,326; Aug. 21.
Feeder for fiber breakers. G. L. Rice and L. E. Whitcomb. 1,681,498; Aug. 21.
Feeding mechanism, Sheet-. K. F. Kronqvist. 1,681,413; Aug. 21.
Figured glass. L. F. Jacklin. Des. 76,137; Aug. 21.
File and holder, Adjustable. E. A. Banschbach. 1,681,318; Aug. 21.
File, Card. F. M. Shotwell. 1,681,629; Aug. 21.
Filter for the absorption of certain radiations, Fluid. L. Bell and W. G. Wolfe. 1,681,276; Aug. 21.
Filter, Wave. E. L. Morton. 1,681,554; Aug. 21.
Firearms, Safety mechanism for. R. Von Frommer. 1,681,315; Aug. 21.
Fireplace. J. M. Blanchard. 1,681,606; Aug. 21.
Fireplace. H. H. Walters. 1,681,449; Aug. 21.
Fireplace structure J. W. Marks. 1,681,670; Aug. 21.
Fish lifter. J. Litwin. Des. 76,143; Aug. 21.
Fishhook. J. E. Howell. 1,681,407; Aug. 21.
Fitting. F. A. Drees. 1,681,470; Aug. 21.
Fixture, Adjustable holding L. Bady and S. Levinson. 1,681,273; Aug. 21.
Flame arrester. S. H. Brooks. 1,681,698; Aug. 21.
Flatirons, Construction for. R. S. Blair. 1,681,214; Aug. 21.
Flexible coupling. A. P. Steiner. 1,681,793; Aug. 21.
Floor-surfacing machines, Dustpan for. I. V. Spurlin. 1,681,506; Aug. 21.
Fluid cleaner, Elastic-. J. L. Torkelson. 1,681,382; Aug. 21.
Fluid-pressure brake. C. C. Farmer. 1,681,576–8; Aug. 21.
Fluid-pressure brake. T. H. Thomas and C. A. Nelson. 1,681,561; Aug. 21.
Flying top. J. Duchesneau. 1,681,524; Aug. 21.
Foundations, Arrangement for laying. O. Stern. 1,681,689; Aug. 21.
Frame for automobile tops, Deck. M. R. Hull. 1,681,479; Aug. 21.
Frame for car trucks, Side. M. H. Martin. 1,681,303; Aug. 21.
Frame for fibrous material, Stretching. E. Gminder. 1,681,768; Aug. 21.
Fuel-burning apparatus, Combined mixing and combustion chamber for liquid-. C. A. Olsen. 1,681,778; Aug. 21.
Fuel distillation, Low-temperature. E. G. Weeks. 1,681,450; Aug. 21.
Funnel, Ship's. H. Hass. 1,681,477; Aug. 21.
Furnace wall, Water-cooled. A. B. Helbig. 1,681,341; Aug. 21.
Fuse, Electrical. C. A. Johnson and H. D. Harland. 1,681,239–40; Aug. 21.
Fuse for aerial bombs, Time. F. W. Bold. 1,681,390; Aug. 21.
Game. L. S. McVey. 1,681,682; Aug. 21.
Game apparatus. F. W. Becker. 1,681,693; Aug. 21.
Game apparatus. C. W. Clark. 1,681,799; Aug. 21.
Game, Card. S. K. Ramer. 1,681,683; Aug. 21.
Gas, Apparatus for the manufacture of mixed. M. W. Travers and F. W. Clark. 1,681,313; Aug. 21.
Gas engine, Rotary. G. B. Aber. 1,681,454; Aug. 21.
Gas heater. W. Kennedy. 1,681,484; Aug. 21.
Gas heater. W. Kennedy. 1,681,734; Aug. 21.
Gas-saving device. E. Gooseide. 1,681,230; Aug. 21.
Gases, Purifying. F. Jost. 1,681,702; Aug. 21.
Gate. J. W. Smith. 1,681,374; Aug. 21.
Gates, Apparatus for controlling hydraulic. W. S. Lee, R. Pfaehler, and D. Nabow. 1,681,487; Aug. 21.
Gauge: *See*—
Liquid-level gauge.
Oil gauge.
Gauge for motor vehicles, Fuel. C. E. Yawter. 1,681,314; Aug. 21.
Gear, Draft. W. H. Cotton. 1,681,222; Aug. 21.
Gear for electrically-driven locomotives, Driving. J. Buchli. 1,681,171; Aug. 21.
Gear mechanism, Compensating-. C. W. Harrold. 1,681,612; Aug. 21.
Gear, Planet. M. M. Bock. 1,681,694; Aug. 21.
Gear, Wind-controlled steering. H. A. Lee. 1,681,415; Aug. 21.
Glass: *See*—
Optical glass.
Glass enameling, Continuous. A. G. Sherman and A. Meadows. 1,681,440; Aug. 21.
Glass, Width maintainer for continuous sheet. C. A. Rowley. 1,681,258; Aug. 21.
Glass-working machine. G. A. Miller. 1,681,591; Aug. 21.
Golf bag. H. Earl. 1,681,225; Aug. 21.
Golf or similar game ball. G. W. Beldam. 1,681,167; Aug. 21.
Golf pad. B. H. Blake. 1,681,389; Aug. 21.
Golf practicing machine. J. C. Backus. 1,681,317; Aug. 21.
Golf tee or the like. H. C. Bratt. 1,681,391; Aug. 21.
Grease-gun-charging device. H. Kreidel. 1,681,772; Aug. 21.
Grinding machine. J. N. Heald and W. Law. 1,681,183; Aug. 21.
Grinding machine, Cylindrical. C. H. Norton. 1,681,902; Aug. 21.
Grinding machines, Crowning device for roll-. P. Stoner. 1,681,794; Aug. 21.
Ground working and pulverizing machine, Combined. L. Bird. 1,681,835; Aug. 21.
Hairpin for bobbed hair. C. J. Williams. 1,681,271; Aug. 21.
Hair-treating method and composition. J. C. Brown. 1,681,170; Aug. 21.
Hair waving or curling device. S. B. Battey. 1,681,511; Aug. 21.
Handle: *See*—
Detachable handle.
Hatrack. J. Broch. Des. 76,119; Aug. 21.
Hatrack. F. R. Mount and C. P. Young. 1,681,552; Aug. 21.
Headlight and control mechanism, Automobile. S. L. and F. C. Tucker. 1,681,448; Aug. 21.
Headlight, Automobile. R. A. Russell, jr. 1,681,909; Aug. 21.
Heat regulator. C. H. Hapgood. 1,681,640; Aug. 21.
Heat treatment of substances by means of molten metal. J. S. Morgan. 1,681,808; Aug. 21.
Heater: *See*—
Air heater. Liquid heater.
Automobile heater. Oil heater.
Gas heater. Water heater.
Heater. S. R. Du Brie. 1,681,726; Aug. 21.
Heating, cooling, and humidifying system for buildings. C. A. Fjelstad. 1,681,582; Aug. 21.
Heating device, Rail-. W. H. Greenfield. 1,681,231; Aug. 21.
Heating oil wells, Apparatus for. P. V. Downey and C. H. Wendroff. 1,681,523; Aug. 21.
Heating system, Steam. J. A. Donnelly. 1,681,725; Aug. 21.
Heating system, Train-. J. A. Spencer. 1,681,911; Aug. 21.
Heel, Composite. D. W. Bunker. 1,681,217; Aug. 21.
Hemstitched fabric, Artificially-. F. Tausend. 1,681,827; Aug. 21.
Hemstitcher. B. F. Gilbert. 1,681,228; Aug. 21.
High and nursery chair, Combined. J. G. Bastian. Des. 76,115; Aug. 21.
Hinge for toilet seats, Spring. B. C. Booth. 1,681,277; Aug. 21.
Holder. J. K. Richie. 1,681,785; Aug. 21.
Holder, Check board and pencil. R. W. Kohler. 1,681,862; Aug. 21.
Holder, Coffee-sack. S. Rickles. 1,681,786; Aug. 21.
Holder, Condiment. E. E. Slick. Des. 76,163; Aug. 21.
Holder, Display-card. F. M. Kessler. 1,681,586; Aug. 21.
Holder, Display-card. A. M. Ray. 1,681,595; Aug. 21.
Holder for metal planers, Tool. C. G. Johannesmeyer and A. R. McCann. 1,681,408; Aug. 21.
Holder, Match-box. C. March. 1,681,865; Aug. 21.
Holder, Match-box. R. M. Ostrander. 1,681,710; Aug. 21.
Horn deflector. C. Achenbach. 1,681,565; Aug. 21.
Hose coupler. E. H. Gold and E. A. Russell. 1,681,729; Aug. 21.
Hydrocarbon burner. C. E. Main. 1,681,302; Aug. 21.
Hydrocarbons, Cracking. F. A. Howard. 1,681,899; Aug. 21.
Ice-cutting machine. W. H. Way. 1,681,715; Aug. 21.
Ice-making system, Raw-water. J. A. Martocello. 1,681,190; Aug. 21.
Incinerator. H. W. Ayers. Des. 76,114; Aug. 21.
Indicator: *See*—
Defating indicator. Motor indicator.
Direction indicator. Water-level indicator.
Insect trap. W. O. Roberts and R. J. Keays. 1,681,625; Aug. 21.
Insulator. A. G. Steinmayer. 1,681,378; Aug. 21.

Internal-combustion engine. R. B. Kuhn. 1,681,544; Aug. 21.
Internal-combustion engine. D. C. Slaght. 1,681,910; Aug. 21.
Jack: *See*—
Automobile jack. Lifting jack.
Jar-closing machine, Continuous vacuum. T. L. Taliaferro. 1,681,445; Aug. 21.
Jewelry box. R. J. Warner and J. Schaefer. 1,681,755; Aug. 21.
Joint: *See*—
Pipe joint.
Key aligner. J. Jacobson. 1,681,858; Aug. 21.
Kit, Type-cleaning. J. A. Nelson. 1,681,810; Aug. 21.
Kneader, Dough. De Vito, L. 1,681,844; Aug. 21.
Knitting-machine mechanism. S. Mishcon. 1,681,359; Aug. 21.
Knitting needles, Manufacturing. A. J. A. Beyer. 1,681,512; Aug. 21.
Label. C. B. Heston. 1,681,769; Aug. 21.
Lamp, Therapeutic. A. A. Kull. 1,681,736; Aug. 21.
Lamps, Safety device for series-connected incandescent electric. F. Eckhardt and M. Hohnekamp. 1,681,471; Aug. 21.
Latch. A. Keesling. 1,681,187; Aug. 21.
Latch for electric-switch boxes. B. E. Getchell. 1,681,850; Aug. 21.
Latch for the doors of motor road vehicles. W. K. Kaye. 1,681,346; Aug. 21.
Lawn sprinkler. G. L. Baldwin. 1,681,719; Aug. 21.
Laxative. R. Pasternack. 1,681,361; Aug. 21.
License tag and holder for same, Illuminated vehicle. P. A. Krause. 1,681,349; Aug. 21.
Lifting jack. J. C. Dawley. 1,681,283; Aug. 21.
Light fixture, Electric-. W. Klehr. Des. 76,140; Aug. 21.
Light signal. C. S. Snavely. 1,681,792; Aug. 21.
Lighting fixture. H. H. Wolter. Des. 76,172–3; Aug. 21.
Lighting-fixture arm or article of analogous nature. J. Di Gaudio. Des. 76,125; Aug. 21.
Lighting-fixture brace or article of analogous structure. J. Di Gaudio. Des. 76,126; Aug. 21.
Lighting-fixture bracket. O. S. Strom. Des. 76,165; Aug. 21.
Lighting fixture, Hanging. J. A. Boehringer. Des. 76,118; Aug. 21.
Lighting fixtures, Convenience outlet for. R. W. Schweiker. 1,681,437; Aug. 21.
Lintel. W. H. Fasshauer. 1,681,286; Aug. 21.
Liquid for rinsing the mouth and applying it, Preparation of a. K. Bergl and W. Dietrich. 1,681,320; Aug. 21.
Liquid heater. O. Gess. 1,681,334; Aug. 21.
Liquid-level gauge. F. B. Smithe. 1,681,504; Aug. 21.
Lock: *See*—
Bottle lock. Tire lock.
Pedal lock. Tool-joint lock.
Locking device for motor-vehicle tires and rims. R. Dougan. 1,681,469; Aug. 21.
Locking mechanism, Car-door-. B. W. Kadel. 1,681,669; Aug. 21.
Locomotive boiler. C. G. Hawley. 1,681,405; Aug. 21.
Looms, Stop motion for. D. E. Skedgeli. 1,681,887–8; Aug. 21.
Lubricating device. J. A. Spencer. 1,681,912; Aug. 21.
Lubricator. C. E. Padilla. 1,681,645; Aug. 21.
Machine, Dipping and painting. S. Maggi. 1,681,301; Aug. 21.
Machine drive and feed, Duplicating. L. K. Aldrich. 1,681,652; Aug. 21.
Machine for assembling and mounting articles. A. Latham, by J. W. Nourbourn. 1,681,244; Aug. 21.
Machine for casting stereotype plates having a mold adapted to be pressed against the outlet opening of the pot. E. Müller. 1,681,872; Aug. 21.
Machine for cutting designs in furs. F. W. Horstmann. 1,681,919; Aug. 21.
Machine for cutting to length continuously-forming tubing. J. W. Moon. 1,681,306; Aug. 21.
Machine for forming spherical solid-rubber balls. T. Mulholland. 1,681,249; Aug. 21.
Machine for making lock-joint tubing. F. W. Schneible. 1,681,880; Aug. 21.
Machine for making spiral springs. J. F. Gall. 1,681,728; Aug. 21.
Machine for removing seed cell from fruit, such as apples. B. C. Coons. 1,681,467; Aug. 21.
Machine for trimming strips of rubber. T. Mulholland. 1,681,248; Aug. 21.
Machine for tying wire ties. H. B. Foulder. 1,681,610; Aug. 21.
Machine for wrapping articles of a uniform or approximately uniform size and shape. L. Mellor. 1,681,492; Aug. 21.
Manifolding strip, Composite. A. M. Bovier. 1,681,513; Aug. 21.
Marking device. A. M. Bates and C. G. Kronmiller. 1,681,275; Aug. 21.
Match case and igniting device. W. Turk. 1,681,270; Aug. 21.
Match machines. Conveyor mechanism for. H. I. Lahr and O. E. Swartz. 1,681,863; Aug. 21.
Match safe. J. E. Neahr. 1,681,250; Aug. 21.
Matrix and making the same. E. R. Torrison. 1,681,447; Aug. 21.
Measuring variable forces, Apparatus for. J. G. Paulin. 1,681,309; Aug. 21.
Mechanical device. A. A. Morton. 1,681,424; Aug. 21.
Medical instrument with condenser, Induced-current. K. Murakoshi. 1,681,708; Aug. 21.
Megaphone and reflex resonator for sound-emitting machines, Combined amplifying. F. D. Arnold. 1,681,208; Aug. 21.
Metals, Apparatus for refining. J. Maximoff, M. S. De Costa, and R. P. D. Krebs. 1,681,191; Aug. 21.
Meter: *See*—
Orifice meter. Proportionate meter.
Meter guard, Electric-. C. J. Gillen. 1,681,766; Aug. 21.
Methanol, Synthesis of. H. H. Storch. 1,681,751–3; Aug. 21.
Milk cooler. W. L. Holt. 1,681,539; Aug. 21.
Mill: *See*—
Porcelain mill.
Minnow. V. S. Waters. 1,681,316; Aug. 21.
Mold: *See*—
Tire mold.
Molding machine. E. O. Beardsley and W. F. Piper. 1,681,386; Aug. 21.
Mop and wringer, Combined. M. C. Newton and J. A. Gremling. 1,681,622; Aug. 21.
Motor: *See*—
Electric motor. Spring motor.
Motor control, Electric-. D. M. Bliss. 1,681,459; Aug. 21.
Motor controller. F. J. Russell. 1,681,435; Aug. 21.
Motor indicator, Repeater. R. E. Kortepeter and A. Amundsen. 1,681,542; Aug. 21.
Motor or compressor, Rotary. G. Güttner. 1,681,583; Aug. 21.
Motors, Arrangement for governing speed of asynchronous. O. Böhm. 1,681,568; Aug. 21.
Muffler. A. H. Quarmby. 1,681,255; Aug. 21.
Naphthenic compound, Oil-soluble. O. E. Bransky. 1,681,657; Aug. 21.
Nitro-2,3-dichlor-1,4-naphthoquinone and preparing the same. J. Stock. 1,681,599; Aug. 21.
Novelty box. T. S. Gorton, jr. 1,681,730; Aug. 21.
Nozzle, Fire foam. B. Reddemann. 1,681,363; Aug. 21.
Nozzle, Multiple diffusing. L. Dufour. 1,681,176; Aug. 21.
Office chair. E. Racz. Des. 76,151; Aug. 21.
Oil burner. W. C. Anthony. 1,681,160; Aug. 21.
Oil burner. J. H. Jackson. 1,681,236; Aug. 21.
Oil burner. W. R. Ray. 1,681,647; Aug. 21.
Oil can, Pressure. F. M. Dilley and C. F. Hallberg. 1,681,845; Aug. 21.
Oil cleaner. P. P. G. Hall. 1,681,232; Aug. 21.
Oil-distributing device. W. Noble. 1,681,495; Aug. 21.
Oil gauge. A. R. Pribil. 1,681,431; Aug. 21.
Oil heater, Auxiliary fuel-. R. Falckney. 1,681,663; Aug. 21.
Oil, Process and apparatus for treating. D. G. Brandt. 1,681,321; Aug. 21.
Oils, Apparatus for converting hydrocarbon. O. C. Brewster. 1,681,658; Aug. 21.
Oils, Refining. L. Burgess. 1,681,895; Aug. 21.
Oils, Refining hydrocarbon. H. J. Halle. 1,681,638; Aug. 21.
Optical device. A. F. Ouellet. 1,681,874; Aug. 21.
Optical effects from pictures, Apparatus for producing. J. P. McDonnell. 1,681,776; Aug. 21.
Optical glass. R. J. Montgomery. 1,681,704; Aug. 21.
Ores, Apparatus for the treatment of. M. E. Branthaver. 1,681,695; Aug. 21.
Ores, Liquid treatment of roasted. M. E. Branthaver. 1,681,696; Aug. 21.
Organ action. M. Maag. 1,681,547; Aug. 21.
Organic compounds, Synthesis of. H. H. Storch. 1,681,750; Aug. 21.
Organs, Combination stop action for. H. M. Smith. 1,681,373; Aug. 21.
Orifice meter. J. C. Diehl. 1,681,174; Aug. 21.
Ordnance, Recoil and run-out apparatus for. A. T. Dawson and G. T. Buckham. 1,681,325; Aug. 21.
Ornament for drapery poles and rods, End. G. Madvig. Des. 76,144–6; Aug. 21.
Oven for cooking stoves. W. Jordan. 1,681,668; Aug. 21.
Oven wall, Sectional. C. L. Gehnrich. 1,681,333; Aug. 21.
Overshoe. K. L. Valentine and G. Ramsey. Des. 76,168; Aug. 21.
Oxidation products, Purifying partial. J. H. James. 1,681,238; Aug. 21.
Oxidation products, Treating partial. J. H. James. 1,681,185; Aug. 21.
Packing box. M. Spitzer. 1,681,199; Aug. 21.
Packing material. O. T. Hungerford. 1,681,540; Aug. 21.
Packing ring, Metallic. R. H. Kantzky. 1,681,770; Aug. 21.
Packing, Shaft. E. W. Stevens. 1,681,444; Aug. 21.
Pad: *See*—
Golf pad.
Padlock, R. Lichtenberger. 1,681,416; Aug. 21.
Palette for gold-stamping presses. J. Kahn. 1,681,733; Aug. 21.
Paper, Method and machine for gloss-coating. E. W. Labombarde. 1,681,350; Aug. 21.
Partition, Bag. H. Tueckmantel. 1,681,269; Aug. 21.
Pedal lock. J. M. Taman. 1,681,380; Aug. 21.
Peeling machine for potatoes and the like. J. T. Lindahl. 1,681,737; Aug. 21.
Percolator, Coffee. H. C. Blette. 1,681,656; Aug. 21.
Phonograph reproducer, Electrical. C. F. Goudy. 1,681,897; Aug. 21.

Piano, Automatic player. C. F. Stoddard. 1,681,889; Aug. 21.
Piano, Electrical sostenuto. S. Cooper. 1,681,635; Aug. 21.
Pianos, Wireless receiving installation for grand. J. Hattemer and L. C. Kauling. 1,681,584; Aug. 21.
Picture apparatus, Motion-. A. R. Clas. 1,681,723; Aug. 21.
Pile and making same. J. E. Conzelman. 1,681,609; Aug. 21.
Piles, Producing and placing. G. B. Sipe. 1,681,883; Aug. 21.
Pipe joint, Flexible. E. A. Russell. 1,681,626; Aug. 21.
Pipe wrench. O. Johnson. 1,681,641; Aug. 21.
Pistol, Novelty. F. S. Cocho. 1,681,172; Aug. 21.
Piston. A. L. Nelson. 1,681,621; Aug. 21.
Piston. A. L. Nelson. 1,681,709; Aug. 21.
Piston structure. A. H. Light. 1,681,488; Aug. 21.
Pitcher or similar article. G. Haviland. Des. 76,135; Aug. 21.
Plasticizers from celluloid and the like, Removing and recovering volatile. H. P. Bassett. 1,681,692; Aug. 21.
Plate, Corrugated metallic. A. E. Small. 1,681,824; Aug. 21.
Plate, Embossed metallic. A. E. Small. 1,681,825; Aug. 21.
Plate for railway cars, Embossed metallic. A. E. Small. 1,681,826; Aug. 21.
Platform, Launching and landing. J. S. Fox. 1,681,474; Aug. 21.
Pliers, Piston-ring expanding and contracting. R. D. Douglass. 1,681,662; Aug. 21.
Plow. C. A. Monsarrat. 1,681,423; Aug. 21.
Plug, Electric connecting. J. G. Peterson. Re17,068; Aug. 21.
Plug, Electric connecting. J. G. Peterson. 1,681,908; Aug. 21.
Plug, Fuse. W. H. Fabrey. 1,681,847; Aug. 21.
Polysulphides and making the same, Substituted thiuram. G. S. Whitby. 1,681,717; Aug. 21.
Porcelain mill, Continuous. A. G. Sherman and A. Meadows. 1,681,441; Aug. 21.
Potato cutter, Seed-. W. H. Pigg. 1,681,681; Aug. 21.
Power-control device. G. H. Hines. 1,681,613; Aug. 21.
Power mechanism. R. G. Thompson. 1,681,267; Aug. 21.
Power plants, Automatic fuel-regulating device for steam-. C. A. French and R. R. Waterman. 1,681,530; Aug. 21.
Power plants, Operating control means for automotive steam-. R. R. Waterman. 1,681,508; Aug. 21.
Power system, Hydraulic. H. B. Taylor. 1,681,711; Aug. 21.
Power to vehicles, Transmission of. A. U. Avera. 1,681,385; Aug. 21.
Presenting apparatus. F. M. Furber. 1,681,227; Aug. 21.
Press: *See*—
Drill press.
Press-feed guide. W. I. Nye. 1,681,360; Aug. 21.
Presses, Safety device for power punch. J. E. Papas. 1,681,646; Aug. 21.
Priming mixture. A. W. Schorger. 1,681,259; Aug. 21.
Printer's chase. O. P. Gayman. 1,681,701; Aug. 21.
Printing machine. J. S. Duncan. 1,681,525; Aug. 21.
Printing machine. A. A. Scuse. 1,681,905; Aug. 21.
Printing machine, Intaglio. O. Wilhelm. 1,681,603; Aug. 21.
Printing plates, Preparing rust-resisting iron and steel. R. Fritsche. 1,681,849; Aug. 21.
Printing presses, Delivery apparatus for. N. C. Andersen. 1,681,162; Aug. 21.
Printing presses, Ink fountain for. C. L. Low. 1,681,299; Aug. 21.
Proportionate meter. F. N. Connet. 1,681,762; Aug. 21.
Protective apparatus. F. F. Brand. 1,681,514; Aug. 21.
Protective cap for wood piling. J. Jacobson. 1,681,857; Aug. 21.
Pump, Automatic receiver. H. G. Shortt. 1,681,747; Aug. 21.
Pump, Dispensing. F. P. McCauley. 1,681,866; Aug. 21.
Pump for steam engines, Oil. H. F. Ripken. 1,681,787; Aug. 21.
Pump, Rotary. W. H. D. Brouse. 1,681,392; Aug. 21.
Pump, Rotary. E. J. Wendell. 1,681,796; Aug. 21.
Pumping apparatus. V. E. Reichard. 1,681,596; Aug. 21.
Push pole. G. F. Gates. 1,681,803; Aug. 21.
Puzzle, Paper bird. V. B. Smith. Des. 76,164; Aug. 21.
Rack. J. H. Burdett. Des. 76,120; Aug. 21.
Rack or holder, Folding. A. J. Livesay. 1,681,418; Aug. 21.
Radiant energy, System and method for the transmission of. J. H. Hammond, jr. 1,681,293; Aug. 21.
Radiator. E. V. Daily. 1,681,173; Aug. 21.
Radiator cap. H. Schlaich. Des. 76,160; Aug. 21.
Radiator cap, Automobile. H. A. Dent. 1,681,843; Aug. 21.
Radiator cap, Automobile. J. C. Tyndall. Des. 76,167; Aug. 21.
Radiator ornament. F. Gentile. Des. 76,132; Aug. 21.
Radiators, Cooling and filling cap for. F. Z. Mathieu. 1,681,775; Aug. 21.
Radiocircuit. R. C. Baird, and E. E. Snell. 1,681,274; Aug. 21.
Radio ground antenna. W. S. Maple. 1,681,644; Aug. 21.
Radio signaling system. G. M. Wright. 1,681,564; Aug. 21.
Radiotable, R. Rychtarik. Des. 76,157; Aug. 21.
Radio tuning mechanism. G. R. Fremont. 1,681,529; Aug. 21.
Rail brush for electric cars. O. P. Smith. 1,681,650; Aug. 21.
Railroad switch. E. J. King. 1,681,860; Aug. 21.
Rake. A. T. Griffith. 1,681,336; Aug. 21.
Razor. P. Cook. 1,681,396; Aug. 21.
Razor. P. Cook. 1,681,466; Aug. 21.
Razor, Corn. E. H. Ansheim. 1,681,207; Aug. 21.
Receptacle. R. H. Banks. 1,681,210; Aug. 21.
Receptacle for merchandise, samples, and advertising matter relating to same, Display and service. J. H. Hengehold. 1,681,406; Aug. 21.
Receptacle, Sadiron. E. E. Glass. 1,681,291; Aug. 21.
Receptacle, Smoker's. W. I. Goscener. 1,681,852; Aug. 21.
Record strip. A. M. Bovier. 1,681,168; Aug. 21.
Recording device. F. W. G. Bruhn. 1,681,460; Aug. 21.
Reenforcing metallic plates, Integral means for. A. E. Small. 1,681,442; Aug. 21.
Reflector. A. Loberg. 1,681,298; Aug. 21.
Refrigerator cabinet and controlling and operating the same. L. G. Copeman. 1,681,399; Aug. 21.
Refrigerator cabinet and controlling the temperature therein. L. G. Copeman. 1,681,398; Aug. 21.
Refrigerator or cabinet. L. G. Copeman. 1,681,397; Aug. 21.
Refrigerator, Show-case. C. E. Klaus. 1,681,242; Aug. 21.
Regulating system. J. R. Craighead. 1,681,519; Aug. 21.
Regulator: *See*—
Heat regulator.
Relay, Electromagnetic. J. Erickson. 1,681,473; Aug. 21.
Relay, Resettable. B. E. Getchell. 1,681,851; Aug. 21.
Rerailing block. R. W. Bryant. 1,681,281; Aug. 21.
Resins, Purifying phenolaldehyde. F. Seebach. 1,681,368–9; Aug. 21.
Rheostat, Float-operated. L. R. Titcomb. 1,681,268; Aug. 21.
Ring: *See*—
Packing ring.
Ring setting. G. A. Tomlinson. Des. 76,166; Aug. 21.
Rolls and the like, Forming. M. Levy. 1,681,353; Aug. 21.
Rock drill. F. M. Slater. 1,681,198; Aug. 21.
Rock-gathering machine. W. E. Asplund. 1,681,457; Aug. 21.
Rod: *See*—
Welding rod.
Roll for revolving clearers, Driving. L. W. Penney. 1,681,875; Aug. 21.
Roller: *See*—
Shade roller.
Roof and shingle securing means. C. C. Figge. 1,681,765; Aug. 21.
Rotary cutter. F. P. Miller. 1,681,675; Aug. 21.
Rotary ventilator. W. F. Hirschman. 1,681,343; Aug. 21.
Rotor, Sucker-rod. S. B. Sargent. 1,681,789; Aug. 21.
Rubber, Vulcanization of. R. V. Heuser. 1,681,806; Aug. 21.
Rubbing machine. C. S. Root. 1,681,648; Aug. 21.
Safe, Wall. E. E. Glass. 1,681,290; Aug. 21.
Safety device, Thermal. I. E. McCabe. 1,681,421; Aug. 21.
Safety guard. E. G. Busse. 1,681,463; Aug. 21.
Salt, betain salt, and glutamic acid from the waste liquor produced in distilling alcohol from fermented beet molasses, Collecting inorganic potassium. Y. Takayama. 1,681,379; Aug. 21.
Sandal. J. Marcus. 1,681,548; Aug. 21.
Saws, Safety guard for rip. J. H. Wulf. 1,681,832; Aug. 21.
Scale frame. O. C. Reeves. Des. 76,152; Aug. 21.
Scissors and shoehorn, Combined. O. Altenbach. 1,681,691; Aug. 21.
Scooter, Snow and ice. W. V. Lindroos. 1,681,297; Aug. 21.
Scraper, Road. W. Hulse. 1,681,855; Aug. 21.
Scraper, Road. W. A. Nicholson. 1,681,873; Aug. 21.
Seal, Coping. T. Wight. 1,681,758; Aug. 21.
Seat cover. W. L. Fry. 1,681,179; Aug. 21.
Seat-cover support. W. L. Fry. 1,681,180; Aug. 21.
Seat for motor cars and like purposes. H. Austin. 1,681,163; Aug. 21.
Sewing-machine-bobbin winder. H. M. Stephenson. 1,681,559; Aug. 21.
Sewing machines, Looper mechanism for. J. R. Moffatt. 1,681,901; Aug. 21.
Sewing machines, Looper support for. J. M. Biddle. 1,681,458; Aug. 21.
Sewing machines, Power table for. G. M. Eames and I. F. Webb. 1,681,896; Aug. 21.
Shackle dolly, Adjustable. W. R. Hodges. 1,681,854; Aug. 21.
Shade and awning for automobile and other windows, Adjustable. J. G. Hedrick and C. H. Neusiis. 1,681,585; Aug. 21.
Shade roller. J. Goodman and W. A. Somers. 1,681,767; Aug. 21.
Shaker for salt and pepper or similar article of manufacture. J. L. Druckleb. Des. 76,127; Aug. 21.
Sharpener vise, Shear-. F. Eaton. 1,681,763; Aug. 21.
Shaving stick. H. Lowenfeld. 1,681,355; Aug. 21.
Shearing machine, Fur-. F. W. Horstmann. 1,681,918; Aug. 21.
Shearing machines, Feeding mechanism for fur. F. W. Horstmann. 1,681,917; Aug. 21.

Sheet of folded material. E. J. Hansen. 1,681,639; Aug. 21.
Sheet piling. K. Pahl. 1,681,593; Aug. 21.
Sheets of material, Folded. E. J. Hansen. 1,681,611; Aug. 21.
Shelf fixture. F. N. Carlson. 1,681,218; Aug. 21.
Shock absorber. T. A. Miller. 1,681,870; Aug. 21.
Shock absorber. T. H. Williams. 1,681,205; Aug. 21.
Shoe. W. R. Barclay. 1,681,211; Aug. 21.
Shoe and making the same, Stitch-down. S. J. Pentier and O. R. Short. 1,681,623; Aug. 21.
Shoe. Double-welt. A. W. Bowers and C. N. Prouty. 1,681,279; Aug. 21.
Shoe stiffener and making it. F. Ricks. 1,681,257; Aug. 21.
Shoes, Manufacture of. T. C. Erskine. 1,681,226; Aug. 21.
Shutter hook and spring, Combined. E. J. Sibley. 1,681,261; Aug. 21.
Sign, Electric. J. E. Long. 1,681,491; Aug. 21.
Sign flasher. J. G. Ruckelshaus. 1,681,194; Aug. 21.
Signal: *See*—
Automobile signal. Light signal.
Signaling system. G. A. Locke and H. H. Haglund 1,681,489; Aug. 21.
Stirups, Making. F. B. Lomax. 1,681,490; Aug. 21.
Skate, Roller. J. Cohen. 1,681,841; Aug. 21.
Skylight and floor-light construction, Shield for. L. W. Mulford. 1,681,741; Aug. 21.
Sled. R. Rossi. 1,681,686; Aug. 21.
Smelting. Apparatus for. H. W. Hall. 1,681,535; Aug. 21.
Soap and making an insoluble soap from aldehyde fatty acid mixtures of mineral oil, Insoluble. J. H. James. 1,681,237; Aug. 21.
Soap dispenser, Liquid. J. W. Bloodbart. Des. 76,117; Aug. 21.
Socket. E. T. Flewelling. 1,681,330; Aug. 21.
Socket box. T. O'Donnell. 1,681,678; Aug. 21.
Socket, Electric. E. Moxter. 1,681,425; Aug. 21.
Sodium stannate solution, Purifying. C. L. Read and B. M. O'Harra. 1,681,497; Aug. 21.
Sound, Apparatus for recording and reproducing. C. Blieberger. 1,681,721; Aug. 21.
Sound recording and reproduction. H. C. Snook. 1,681,376; Aug. 21.
Sounds, Production of. M. Maag. 1,681,546; Aug. 21.
Spark arrester. J. O. Anderson. 1,681,456; Aug. 21.
Spectacles. L. C. King. 1,681,735; Aug. 21.
Speed-control system for electric elevators. J. D. Lewis and G. W. Lautrup. 1,681,351; Aug. 21.
Speed control, Vehicle. C. Gore. 1,681,664; Aug. 21.
Spindle. E. B. Feaster and C. B. Almy. 1,681,764; Aug. 21.
Spindle. E. B. Feaster and C. B. Almy. 1,681,801; Aug. 21.
Spindle. E. B. Feaster and A. W. Arnold. 1,681,800; Aug. 21.
Spindle machines, Positive tapping mechanism for multiple-. R. M. Galloway. 1,681,288; Aug. 21.
Splicing machine, Cable-. D. T. May and C. G. McCormick. 1,681,245; Aug. 21.
Spool for tube frames, Yarn. E. F. Hathaway and W. Bixby. 1,681,898; Aug. 21.
Spools, Attachment for thread. B. A. Smith. 1,681,263; Aug. 21.
Spoon or similar article. G. N. Allen. Des. 76,111–2; Aug. 21.
Spoon or similar article. G. N. Allen. Des. 76,174; Aug. 21.
Spotlight control. E. L. Larson. 1,681,486; Aug. 21.
Spring motor. J. F. Burton. 1,681,393; Aug. 21.
Sprinkler: *See*—
Lawn sprinkler.
Stackers, Extension hood for wind. C. McNabb. 1,681,777; Aug. 21.
Stamping machine, Pocket-space. J. F. Silverman. 1,681,882; Aug. 21.
Stand: *See*—
Switch stand.
Static eliminator. H. H. Ruckel. 1,681,788; Aug. 21.
Statuette or similar article. A. Saint Ogan. Des. 76,159; Aug. 21.
Steamboat and like toy construction and printed blank therefor. F. E. Prince. 1,681,873; Aug. 21.
Steel sheave and the like, Bushed manganese. J. C. Taylor, jr. 1,681,906; Aug. 21.
Steering-wheel brake. I. Koechlin. 1,681,348; Aug. 21.
Stepladder. W. E. Putnam. 1,681,879; Aug. 21.
Stocking. H. S. Wolff. Des. 76,171; Aug. 21.
Stone and producing the same, Artificial cast. F. M. Emerson. 1,681,727; Aug. 21.
Stove. R. G. Germer. 1,681,476; Aug. 21.
Stove. M. Resek. Des. 76,154–5; Aug. 21.
Stove, Cooking. F. S. Lang. 1,681,773; Aug. 21.
Stove leg. L. T. Wilcox. Des. 76,170; Aug. 21.
Strainer. A. W. Morse and W. E. Wollheim. 1,681,620; Aug. 21.
Strands, ropes, or cables, Attachment for. G. W. Ewins. 1,681,285; Aug. 21.
Submarine cable. O. E. Buckley. 1,681,515; Aug. 21.
Submarine drill. L. Gillasso. 1,681,533; Aug. 21.
Support, Adjustable machine table. G. H. Knight. 1,681,412; Aug. 21.
Support for computing machines. D. D. Gray. 1,681,732; Aug. 21.
Support, Switch and signal rod or pipe carrier. B. F. Lollis. 1,681,617; Aug. 21.
Sweater garment. H. Moss. 1,681,809; Aug. 21.
Switch: *See*—
Combination switch. Electric switch.
Current switch. Railroad switch.
Switch stand, Safety. P. Frandsen. 1,681,475; Aug. 21.
Switching system, Automatic. A. E. Anderson. 1,681,158; Aug. 21.
Syringe, Local anæsthetic. G. P. Pitkin. 1,681,744; Aug. 21.
Table. R. Rychtarik. Des. 76,156; Aug. 21.
Tabulating stops, Selective multiple. E. J. Ens. 1,681,472; Aug. 21.
Teapot construction (pottery body). A. F. Saunders. 1,681,598; Aug. 21.
Teeth, Artificial. V. H. Sears. 1,681,436; Aug. 21.
Telephone-exchange system. W. G. Blauvelt. 1,681,215; Aug. 21.
Telephone-exchange system. P. P. Coggins. 1,681,221; Aug. 21.
Telephone receiver. N. Baldwin. 1,681,161; Aug. 21.
Telephone stand or equipment. J. Straub. 1,681,754; Aug. 21.
Telephone system. S. B. Williams. 1,681,510; Aug. 21.
Telephone system, Automatic. C. E. Lomax. 1,681,703; Aug. 21.
Telephone system, Automatic. J. Wicks. 1,681,913; Aug. 21.
Telephone system with auxiliary signaling circuit. R. G. McCurdy. 1,681,246; Aug. 21.
Telescopy, Electric. J. G. Allen. 1,681,833; Aug. 21.
Temperature regulation. A. J. Otto. 1,681,253; Aug. 21.
Terminal box, Dry spot cross-arm. D. P. Dickie. 1,681,284; Aug. 21.
Terminal, Conductor. C. G. Merideth. 1,681,673; Aug. 21.
Testing device, Leakage-. R. E. Miller. 1,681,551; Aug. 21.
Testing instrument, Electrical. G. B. Rolfe. 1,681,367; Aug. 21.
Testing the quality of cotton fibers and the like. G. Zweigle. 1,681,605; Aug. 21.
Textile fabric. R. Cocking. Des. 76,123; Aug. 21.
Textile fabric. E. Weiner and H. Katims. Des. 76,169; Aug. 21.
Textile fabric, Embroidered. W. Schmid. Des. 76,161–2; Aug. 21.
Thermostatic control. R. S. Tice. 1,681,446; Aug. 21.
Thread, Producing fibrous. J. J. de la Roza, jr. 1,681,223; Aug. 21.
Threads, Coating for textile. E. Pohl. 1,681,745; Aug. 21.
Timer. C. F. Rogers. 1,681,366; Aug. 21.
Tire carrier. F. W. Slack. 1,681,748; Aug. 21.
Tire-carrying rim support. A. D. Long. 1,681,864; Aug. 21.
Tire filler. M. J. Lyons. 1,681,357; Aug. 21.
Tire gauge. T. F. Kearney. 1,681,771; Aug. 21.
Tire lock, Spare-. C. L. Johnson. 1,681,409; Aug. 21.
Tire mold, Rubber-. E. W. Thurlow. 1,681,713; Aug. 21.
Tires, Bead for pneumatic. R. C. Pierce. 1,681,680; Aug. 21.
Tool, Combination. A. Smith. 1,681,749; Aug. 21.
Tool, Door-holding. A. A. Arends. 1,681,834; Aug. 21.
Tool for taking up tappets and the like. P. N. Shaw. 1,681,881; Aug. 21.
Tool-joint lock. J. C. Coates. 1,681,699; Aug. 21.
Tool, Marking. W. B. Johnston and J. R. Carman. 1,681,667; Aug. 21.
Tool, Power-actuated. G. E. Hallenbeck. 1,681,403; Aug. 21.
Tool, Pushing and pulling. A. M. Seeger. 1,681,370; Aug. 21.
Tool, Stud setting and loosening. N. H. Westerberg. 1,681,203; Aug. 21.
Tool, Trimming and cutting. M. M. Simescu. 1,681,688; Aug. 21.
Torpedoes, Apparatus for launching. H. C. Richardson. 1,681,434; Aug. 21.
Toy aeroplane vehicle. N. Scourtes and P. Karouzos. 1,681,438; Aug. 21.
Toy animal. H. S. Hitchcock. 1,681,537; Aug. 21.
Toy boat. E. L. Cayo. 1,681,465; Aug. 21.
Toy boat. J. R. Miller. Des. 76,148; Aug. 21.
Toy, Circus. L. Marx. 1,681,304; Aug. 21.
Toy, Figure wheeled. A. L. Higgins. 1,681,666; Aug. 21.
Toy, Mosaic. L. G. Appley. 1,681,759; Aug. 21.
Toy pushcart. O. Peterson. 1,681,876; Aug. 21.
Toy roundabout. H. M. Reiner. 1,681,310; Aug. 21.
Toys running on cords, Cord guide for rolling. C. Meyer. 1,681,674; Aug. 21.
Track sander, Railway-. P. Lofy. 1,681,419; Aug. 21.
Tractor, T. W. Nichols. 1,681,420; Aug. 21.
Train control. H. P. Ober. 1,681,903; Aug. 21.
Train control. W. W. Wenholz. 1,681,892; Aug. 21.
Transformer. G. W. Elmen. 1,681,573; Aug. 21.
Transmission control. F. G. Gardner. 1,681,532; Aug. 21.
Transmission lines, Distortion correction for. H. Nyquist. 1,681,252; Aug. 21.
Trap: *See*—
Animal trap. Insect trap.
Tray, Serving. L. Levien. 1,681,589; Aug. 21.

Treatment of liquids such as milk with rays, more particularly with ultra-violet rays. F. Hoffman. 1,681,538; Aug. 21.
Trench digger. C. C. Hansen. 1,681,536; Aug. 21.
Trunk. E. O. Suelflow. 1,681,264; Aug. 21.
Trunk construction. J. Ritter, jr. 1,681,365; Aug. 21.
Truss structure. C. L. Ewing. 1,681,572; Aug. 21.
Tube: *See*—
Vacuum tube.
Tube cleaner. O. C. Runge. 1,681,886; Aug. 21.
Turbid suspensions, Method and apparatus for determination of the concentration of. R. E. Hall. 1,681,339; Aug. 21.
Turbine, High-speed impulse. L. F. Moody. 1,681,705; Aug. 21.
Turbine, Hydraulic. L. F. Moody. 1,681,706; Aug. 21.
Turbine, Hydraulic. H. B. Taylor. 1,681,712; Aug. 21.
Turbine, Reaction. W. S. Bowen. 1,681,607; Aug. 21.
Typewriting machine. A. G. F. Kurowski. 1,681,243; Aug. 21.
Typewriting machine. L. A. Thatcher. 1,681,312; Aug. 21.
Typewriting machine. O. Thieme. 1,681,266; Aug. 21.
Typographical machine. G. E. Mariatt. 1,681,671–2; Aug. 21.
Vacuum tube. C. E. Fitch. 1,681,329; Aug. 21.
Valve. H. E. Atkinson. 1,681,209; Aug. 21.
Valve. O. P. Erickson. 1,681,328; Aug. 21.
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Valve. M. F. Richardson. 1,681,364; Aug. 21.
Valve, Cut-off. C. F. Smith. 1,681,372; Aug. 21.
Valve, Floor-drain. F. W. Carlson. 1,681,394; Aug. 21.
Valve, Fluid-regulating. F. Shenton. 1,681,493; Aug. 21.
Valve, Foot. W. F. Brandt. 1,681,169; Aug. 21.
Valve for player pianos. A. G. Gulbransen. 1,681,338; Aug. 21.
Valve for storage tanks, Safety. S. H. Brooks. 1,681,697; Aug. 21.
Valve, Pneumatically-controlled air. G. T. Boynton. 1,681,278; Aug. 21.
Valve, Quickacting gate. J. M. Dayton. 1,681,468; Aug. 21.
Valve-reversing mechanism. E. B. Packard. 1,681,307; Aug. 21.
Vanity case. W. A. Goertz. 1,681,401; Aug. 21.
Vehicle and steering device, Motor. F. B. Barshell. 1,681,893; Aug. 21.
Vehicle, Motor. L. G. Bartlett. 1,681,319; Aug. 21.
Vehicle, Motor. L. Raab. 1,681,885; Aug. 21.
Vehicle spring suspension. F. M. Reid. 1,681,433; Aug. 21.
Vending machine. W. J. Tintera. 1,681,601; Aug. 21.
Ventilator: *See*—
Rotary ventilator. Window ventilator.
Vessel with handles. R. Rueff. 1,681,197; Aug. 21.
Vibrator, Synchronous electric. J. R. Barnhart. 1,681,720; Aug. 21.
Vulcanizer, Patch. H. J. Anderson. 1,681,455; Aug. 21.
Vulcanizing device for tire casings. H. Erikson. 1,681,178; Aug. 21.
Wagon and sled, Combined. W. S. Hance. 1,681,853; Aug. 21.
Wall construction. E. F. Techmer. 1,681,311; Aug. 21.
Wall construction, Demountable. E. F. Hauserman, L. D. Mowery, and J. A. Bohnsack. 1,681,340; Aug. 21.
Wall paper or the like. F. E. Leitch. Des. 76,141; Aug. 21.
Wall structure. E. F. Hauserman, L. D. Mowery, and J. A. Bohnsack. 1,681,805; Aug. 21.
Warp-dyeing machine. E. E. Carlson and L. A. Stead. 1,681,516; Aug. 21.
Washer-placing machine. E. Hutchens. 1,681,480; Aug. 21.
Washing and drying apparatus. D. Parker. 1,681,556; Aug. 21.
Washing and sorting coal and the like, Apparatus for. F. Bascour. 1,681,164; Aug. 21.
Washing apparatus. S. D. Parker. 1,681,308; Aug. 21.
Washing machine. H. Cave. 1,681,322; Aug. 21.
Washing-machine agitator, Clothes-. L. Cameto. 1,681,464; Aug. 21.
Watch bracelet or similar article. F. P. Kinsley. Des. 76,139; Aug. 21.
Water heater. A. F. Moneuse. 1,681,305; Aug. 21.
Water heater, Storage. E. S. Stack. 1,681,377; Aug. 21.
Water-level indicator. R. E. White. 1,681,452; Aug. 21.
Weather-strip attachment. H. D. Meek. 1,681,869; Aug. 21.
Weaving together the ends of similarly woven belts and bands, Process and apparatus for. A. Luckweil. 1,681,356; Aug. 21.
Welding mechanism, Electric. J. W. Winter. 1,681,604; Aug. 21.
Welding rails under traffic, Apparatus for. J. H. Deppeler. 1,681,571; Aug. 21.
Welding rod. P. P. Pipes. 1,681,904; Aug. 21.
Well drilling. W. Sheldon. 1,681,501; Aug. 21.
Well-drilling apparatus. W. Sheldon. 1,681,502; Aug. 21.
Well packer, Oil and gas. J. W. Smith, G. E. Sawyer, and V. L. Martin. 1,681,262; Aug. 21.
Wheel: *See*—
Blade wheel. Emergency wheel.
Wheel. C. W. Hammett. 1,681,182; Aug. 21.
Wheel brake, Vehicle. G. J. Thomas. 1,681,630; Aug. 21.
Wheel rims, Making metal. E. E. Einfeldt. 1,681,177; Aug. 21.
Wind instruments, Key pad for. A. Ciccone. 1,681,220; Aug. 21.
Window attachment, Casement-. A. H. Carrier. 1,681,798; Aug. 21.
Window, Casement. E. J. Sibley. 1,681,260; Aug. 21.
Window-regulator mounting. S. W. Nicholson. 1,681,251; Aug. 21.
Window, Vehicle. R. H. Wappler. 1,681,507; Aug. 21.
Window ventilator. J. M. Ludlow. 1,681,420; Aug. 21.
Window ventilator. O. R. Witter. 1,681,206; Aug. 21.
Windshield-wiper adjuster. J. Demand. 1,681,724; Aug. 21.
Wiper, Windshield. V. H. Christen. 1,681,395; Aug. 21.
Wrench: *See*—
Cable wrench. Pipe wrench.
Wrench. R. Hoe. 1,681,184; Aug. 21.
Wrench and hammer, Combined pole-line. C. L. Clark. Des. 76,122; Aug. 21.
Writing, Device for use in. D. Collen. 1,681,842; Aug. 21.
Yarn, Process and apparatus for making. J. A. Heany. 1,681,234; Aug. 21.
Zirconium compounds, Producing. F. Rüsberg, and P. Schmid. 1,681,195; Aug. 21.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 21, 1928.

NOTE.—First number=class, second number=subclass, third number=patent number.

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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Acker, Christine S., Santa Barbara, Calif. Perfumes. 245,914; Aug. 28; Serial No. 263,847; published June 12, 1928. Class 6.

Alfan Products, Inc., New York, N. Y. Liquid mouth wash. 245,904; Aug. 28; Serial No. 256,160; published May 8, 1928. Class 6.

Alfocorn Milling Company, St. Louis, Mo. Mixing feed for stock. 245,943; Aug. 28; Serial No. 264,132; published June 12, 1928. Class 46.

Altman, B., & Co., New York, N. Y. Leather shoes. 246,096; Aug. 28. Class 39.

American Hume Concrete Pipe Co., Detroit, Mich. Concrete pipes, posts, and poles. 246,102; Aug. 28. Class 12.

American Phonophor Corporation, New York, N. Y. Ear phones. 245,905–6; Aug. 28; Serial No. 256,067–8; published June 5, 1928. Class 44.

Armentiers Specialty Co. (See Rosenblatt, Harry I.)

Aunt Nellie's Farm Kitchen, Inc., Hartford, Wis. Canned peas, corn, beets, etc. 245,916; Aug. 28; Serial No. 263,721; published June 5, 1928. Class 46.

Bambino Products Co. (See Gerard, Roger W.)

Bayod, Martin, Madrid, Spain. Kefir and ferments for preparing the same. 245,892; Aug. 28; Serial No. 259,193; published June 5, 1928. Class 46.

Beck, Adolph C., doing business as A. C. Beck Co., Minneapolis, Minn. Preparation for prevention and elimination of rust. 246,051; Aug. 28; Serial No. 263,368; published June 5, 1928. Class 6.

Berriman, Nathan E., New York, N. Y. Wearing apparel of knitted and textile fabric. 246,085; Aug. 28. Class 39.

Best-Of-All Malt Company. (See Rubin, Henry.)

Bettina's. (See Beye, Elizabeth.)

Beye, Elizabeth, doing business as Bettina's, New York, N. Y. Candy, bonbons, chocolate candy, fudge, etc. 245,896; Aug. 28; Serial No. 257,465; published June 12, 1928. Class 46.

Black-Iron Stove Polish Company, Lawrence, Mass. Stove polishes. 246,075; Aug. 28. Class 4.

Böhme, H. Th., A. G., Chemnitz, Germany. Chemical dye aids. 245,952–4; Aug. 28; Serial Nos. 250,358–60; published June 5, 1928. Class 6.

Böhme, H. Th., A. G., Chemnitz, Germany. Chemical dye aids. 245,952–4; Aug. 28; Serial Nos. 250,358–60; published June 5, 1928. Class 6.

Böhme, H. Th., A. G., Chemnitz, Germany. Chemical dye aids. 245,955–6; Aug. 28; Serial Nos. 250,355–6; published June 5, 1928. Class 6.

Borgfeldt, Geo., & Co., New York, N. Y. Toy automobiles. 245,936; Aug. 28; Serial No. 264,417; published June 12, 1928. Class 22.

Boudette Manufacturing Co., Chelsea, Mass. Radio reproducing devices. 246,080; Aug. 28. Class 21.

Bourbon French Perfume Manufacturing Co., New Orleans, La. Astringents, astringent cerates, cleansing creams, etc. 245,926; Aug. 28; Serial No. 259,941; published June 12, 1928. Class 6.

Brownstein-Louis Company, Los Angeles, Calif. Cotton textile fabrics. 246,086; Aug. 28. Class 42.

Burnett Chemical Company, Los Angeles, Calif. Varnish. 245,946; Aug. 28; Serial No. 264,078; published June 5, 1928. Class 16.

Byrne, Frank D., Chicago, Ill. Liniment. 246,054; Aug. 28; Serial No. 263,304; published June 12, 1928. Class 6.

California Commercial Company, San Francisco, Calif. Tonic. 246,029; Aug. 28; Serial No. 261,348; published May 1, 1928. Class 6.

Cambridge Rubber Company, Cambridge, Mass. Rubber boots, shoes, etc. 246,089; Aug. 28. Class 39.

Carnation Milk Products Company, Oconomowoc, Wis.; Chicago, Ill.; and Seattle, Wash. Concentrated syrup. 245,903; Aug. 28; Serial No. 256,330; published Mar. 6, 1928. Class 46.

Chemical Products Corporation, West Nyack, N. Y. Butyl propionate, triphenyl phosphate, and aluminum vehicle. 246,042; Aug. 28; Serial No. 265,139; published June 12, 1928. Class 6.

Choice Cigar Company, Wilkes-Barre, Pa. Cigars. 246,031; Aug. 28; Serial No. 264,970; published June 5, 1928. Class 17.

Clark, J. R., Company, The, Minneapolis, Minn. Step-ladders. 246,067; Aug. 28. Class 50.

Coddington, E. D., Manufacturing Company, North Milwaukee, Wis. Cement base-coat plaster, etc. 246,098; Aug. 28. Class 12.

Colby, E. J. M., Co., Inc., New York, N. Y. Candy and and pastry. 245,971; Aug. 28; Serial No. 263,691; published June 5, 1928. Class 46.

Columbia Fastener Company, Chicago, Ill. Snap fasteners. 246,066; Aug. 28. Class 40.

Columbus Packing Company, The, Columbus, Ohio. Butter. 246,037; Aug. 28; Serial No. 265,366; published June 5, 1928. Class 46.

Comey, R. H., Companies Consolidated, Brooklyn, N. Y. Dyed and bleached braids. 245,919; Aug. 28; Serial No. 260,717; published May 8, 1928. Class 40.

Comey, R. H., Companies Consolidated, Brooklyn, N. Y. Straw braid for use in men's hats. 245,995; Aug. 28; Serial No. 264,809; published June 5, 1928. Class 40.

Consumers Glue Co., St. Louis, Mo. Glue. 245,941; Aug. 28; Serial No. 264,148; published June 5, 1928. Class 5.

Consumers Glue Co., St. Louis, Mo. Glue wall size. 245,942; Aug. 28; Serial No. 264,147; published June 5, 1928. Class 5.

Craftex Company, Brighton District, Boston, Mass. Interior warm-water or oil wall finish and painter's sizing. 246,047; Aug. 28; Serial No. 262,510; published June 5, 1928. Class 16.

Craftex Company, Brighton District, Boston, Mass. Painters' wall sizing. 246,050; Aug. 28; Serial No. 263,377; published June 12, 1928. Class 16.

Craftex Company, Brighton District, Boston, Mass. Water paint or plastic paint, etc. 246,053; Aug. 28; Serial No. 263,309; published June 12, 1928. Class 16.

Cyclops Steel Company, Inc., Titusville, Pa. Steels. 246,002; Aug. 28; Serial No. 264,566; published June 12, 1928. Class 14.

Dehls & Stein, Newark, N. J. Cleansing, sterilizing, and purifying fluid. 246,039; Aug. 28; Serial No. 265,321; published June 5, 1928. Class 6.

De Martini Macaroni Co., Inc., The, New York and Brooklyn, N. Y. Macaroni. 246,041; Aug. 28; Serial No. 265,147; published June 12, 1928. Class 46.

Dent Hardware Company, The, Fullerton, Pa. Chest of assorted toys. 245,973; Aug. 28; Serial No. 263,644; published June 5, 1928. Class 22.

Descollonges Frères, Lyon, France. Chemical product. 246,019; Aug. 28; Serial No. 262,217; published June 12, 1928. Class 6.

D'Ollier, Henry, jr., Bridgeport, Conn. Electric connectors, outlet boxes and parts thereof, wall brackets, etc. 245,949; Aug. 28; Serial No. 264,025; published June 5, 1928. Class 21.

Donaldson, T. B., Medicine Mfg. Company, The. (See Read, Edward P.)

Dowds, Harry C., Cleveland, Ohio. Cooking utensils in aluminum ware. 246,092; Aug. 28. Class 13.

Duluth-Superior Milling Company, Duluth, Minn. Wheat flour. 246,058; Aug. 28; Serial No. 263,201; published June 5, 1928. Class 46.

Duro Company, The, Dayton, Ohio. Electric well pumps and water systems. 246,069; Aug. 28. Class 21.

Expello Corporation, The, Dover, N. H. Moth and mothlarvæ killer. 245,912; Aug. 28; Serial No. 263,938; published June 12, 1928. Class 6.

Farrel-Birmingham Company, Incorporated, Ansonia and Derby, Conn., and Buffalo, N. Y. Rolling mills, chilled-iron rolls, asbestos mixers, etc. 245,978; Aug. 28; Serial No. 263,542; published June 5, 1928. Class 23.

Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Iron and steel. 246,001; Aug. 28; Serial No. 264,573; published June 12, 1928. Class 14.

Farwell, Louise B., doing business as Farwell & Co., Sarasota, Fla. Relishes. 245,913; Aug. 28; Serial No. 263,867; published June 12, 1928. Class 46.

Federated Metals Corporation, The, San Francisco, Calif. Wire solder. 246,028; Aug. 28; Serial No. 261,358; published June 5, 1928. Class 14.

Fine, Louis, Baltimore, Md. Beverage sold as a soft drink, sirup and extract and concentrate for making the same. 246,081; Aug. 28. Class 45.

Fingerprints, Inc., Lynn, Mass. Fingerprinting apparatus. 246,049; Aug. 28; Serial No. 263,383; published May 29, 1928. Class 26.

Finishing Specialties & Service Co., Chicago, Ill. Plastic paint. 246,015; Aug. 28; Serial No. 262,602; published June 5, 1928. Class 16.

Fishman, Joseph, doing business as Love Charm Co., St. Louis, Mo. Perfumes, cold creams, toilet waters, etc. 246,048; Aug. 28; Serial No. 263,384; published June 5, 1928. Class 6.

Flannery Bolt Company, Wilmington, Del., and Pittsburgh, Pa. Boiler stay bolts and nuts. 246,100; Aug. 28. Class 13.

Fleishans, John T., doing business as Ruma-Nox Laboratories, Detroit, Mich. Medicinal preparation use as a cathartic, blood purifier, etc. 246,055; Aug. 28; Serial No. 263,262; published June 5, 1928. Class 6.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 246,091; Aug. 28. Class 42.

Frankart, Inc., New York, N. Y. Ash trays. 246,035; Aug. 28; Serial No. 265,532; published June 5, 1928. Class 8.

Fretwell Bros., Leesburg, Fla. Cigars. 246,083; Aug. 28. Class 17.

Friedlaender Company, The, New York, N. Y. Adjustable head pads. 246,047; Aug. 28; Serial No. 263,386; published June 5, 1928. Class 44.

Gelfand Manufacturing Company, The, Baltimore, Md. Mayonnaise. 246,026; Aug. 28; Serial No. 261,435; published June 5, 1928. Class 46.

Gelfand, Simon, doing business as Gelfand & Co. (Not Inc.), Baltimore, Md. Mayonnaise. 245,902; Aug. 28; Serial No. 256,338; published June 5, 1928. Class 46.

Georges, William, doing business as Larex Chemical Company, Seattle, Wash. Blood and rheumatic medicine, mineral oil, pile ointment, etc. 245,923; Aug. 28; Serial No. 260,173; published June 5, 1928. Class 6.

Gerard, Roger W., doing business as Bambino Products Co., New York, N. Y. Olive oil. 245,975; Aug. 28; Serial No. 263,602; published June 12, 1928. Class 46.
Gladbrook Packing Co., also doing business as Gladbrook Mustard Factory, Long Beach, Calif. Bottled cucumber pickles. 246,099; Aug. 28. Class 46.
Glickman, Simon S., doing business as Glico Hosiery Co., Albany, N. Y. Hosiery. 246,101; Aug. 28. Class 39.
Glico Hosiery Co. (See Glickman, Simon S.)
Grand Traverse Packing Company, Traverse City, Mich. Canned goods. 246,078; Aug. 28. Class 46.
Green, Regina, doing business as the Velleda Laboratory, New York, N. Y. Medicinal herb tea. 246,022; Aug. 28; Serial No. 262,081; published June 12, 1928. Class 6.
Gregory, Hattie, Atlanta, Ga. Ointment. 246,046; Aug. 28; Serial No. 263,390; published June 12, 1928. Class 6.
Grennan Bros. Pie Co., Detroit, Mich. Pies. 245,977; Aug. 28; Serial No. 263,547; published June 5, 1928. Class 46.
Gus' Butter-Maid Bake Shop. (See Kesselring, August.)
Hansen, Karl, Company, Inc., New Orleans, La. Plate glass. 246,065; Aug. 28. Class 33.
Hathaway Baking Company, Boston, Mass. Bread and cake. 245,957; Aug. 28; Serial No. 248,409; published June 5, 1928. Class 46.
Hayes, Alma B., doing business as Palatelle Products Co., Takoma Park, Md. Ice cream, preserved fruits, etc. 246,036; Aug. 28; Serial No. 265,433; published June 12, 1928. Class 46.
Heath & Hagemann, Inc., Edmonds, Wash. Hairpins. 246,045; Aug. 28; Serial No. 263,396; published May 8, 1928. Class 40.
Henning-Orla Bruhn, Copenhagen, Denmark. Mucilage and glues. 245,890; Aug. 28; Serial No. 259,552; published June 12, 1928. Class 5.
Hermès, Emile M., Paris, France. Toilet sets, etc. 245,966; Aug. 28; Serial No. 232,270; published Apr. 10, 1928. Class 40.
Heyl & Co. Chemisch-Pharmazeutische Fabrik Aktiengesellschaft, Berlin, Germany. Preparation for the treatment of kidney, bladder, and urine affections. 245,900; Aug. 28; Serial No. 256,625; published June 5, 1928. Class 6.
Hillyard Chemical Company, St. Joseph, Mo. Deodorant in crystal form. 245,894; Aug. 28; Serial No. 258,469; published June 5, 1928. Class 6.
Holley, Lon W., Long Beach, Calif. Cast-iron welding flux, brazing compound, etc. 246,016; Aug. 28; Serial No. 262,565; published June 5, 1928. Class 6.
Hopkins, Ferdinand T., doing business as Ferd. T. Hopkins & Son, New York, N. Y. Lotion for beautifying and improving the skin. 246,014; Aug. 28; Serial No. 262,713; published June 5, 1928. Class 6.
Hudson Terminal Art Embroidery Shop. (See Rosenblum, Abraham.)
Hump Hairpin Mfg. Co., The, Chicago, Ill. Hairpins. 246,021; Aug. 28; Serial No. 262,086; published May 8, 1928. Class 40.
Independent Wholesale Grocery Co. (See Sushelsky, Maurice.)
International Braid Company, Providence, R. I. Shoe lacings, corset lacings, etc. 246,060; Aug. 28; Serial No. 263,088; published May 8, 1928. Class 40.
J. & J. Cash, Inc., South Norwalk, Conn. Woven labels of cotton and silk. 246,025; Aug. 28; Serial No. 261,861; published Apr. 17, 1928. Class 40.
Janov-Abeles, I., Shirt Co., New York, N. Y. Dress and negligee shirts. 246,084; Aug. 28. Class 39.
Juliet Products Co. (See Silbar, Allen.)
Kann, S., Sons Company, The, Washington, D. C. Women's Dress shields. 245,945; Aug. 28; Serial No. 264,110; published June 12, 1928. Class 40.
Kasser, Samuel, Philadelphia, Pa. Malt syrups. 246,094; Aug. 28. Class 46.
Kenneth Cotton Mills, Walhalla, S. C. Bedspreads formed partly or wholly of silk, etc. 245,976; Aug. 28; Serial No. 263,551; published June 5, 1928. Class 42.
Kesselring, August, doing business as Gus' Butter-Maid Bake Shop, Denver, Colo. Cakes and pastry. 245,944; Aug. 28; Serial No. 264,111; published June 5, 1928. Class 46.
Kip Corporation, The, Los Angeles, Calif. Salves for the skin and body for relieveing pain, etc. 246,059; Aug. 28; Serial No. 263,159; published June 5, 1928. Class 6.
Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 245,994; Aug. 28; Serial No. 264,824; published May 29, 1928. Class 40.
Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 246,061; Aug. 28; Serial No. 263,044; published May 8, 1928. Class 40.
Kowalsky, Ezra, doing business as Saniseptol Products Co., Kansas City, Mo. Antiseptic powder. 246,018; Aug. 28; Serial No. 262,312; published June 12, 1928. Class 6.
Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Soda crackers, salty flakes, butter and Graham crackers. 245,940; Aug. 28; Serial No. 264,170; published June 5, 1928. Class 46.
Larex Chemical Company. (See Georges, William.)
Leggett, Francis H., & Company, New York, N. Y. Breakfast cocoa, sweet relish, jelly, etc. 246,000; Aug. 28; Serial No. 264,589; published June 5, 1928. Class 46.
Leland, Benjamin, & Co., St. Louis, Mo. Toilet articles, preparations, and products. 246,023; Aug. 28; Serial No. 262,049; published June 5, 1925. Class 6.
Leo, D. C., & Company, Des Moines, Iowa. Foot powder. 245,992; Aug. 28; Serial No. 264,895; published June 12, 1928. Class 6.
Linseed Meal Educational Committee, Milwaukee, Wis. Linseed meal. 246,027; Aug. 28; Serial No. 261,369; published June 12, 1928. Class 46.
Liverpool Borax Company Limited, The, Liverpool, England. Chemical substances used in manufactures. 245,962; Aug. 28; Serial No. 246,298; published June 5, 1928. Class 6.
Lock, John H., Co. Inc., The, New York, N. Y. Canned berries, dried apples, brown bread, catsup, etc. 245,964; Aug. 28; Serial No. 242,901; published May 1, 1928. Class 46.
Love Charm Co. (See Fishman, Joseph.)
Lu-Mi-Nus Signs, Inc., Chicago, Ill. Electrical luminescent signs, etc. 246,068; Aug. 28. Class 21.
Lyman Poultry Association, Lyman, Wyo. Eggs. 245,998; Aug. 28; Serial No. 264,648; published June 5, 1928. Class 46.
Marcus, Jacob, New York, N. Y. Fast-edge bindings. 245,921; Aug. 28; Serial No. 260,513; published May 8, 1928. Class 40.
Marsh, Loan J., doing business as Purtity Food Company, Atlantic City, N. J. Potatoes julienne, shoe-string potatoes, and potato chips. 246,088; Aug. 28. Class 46.
Maurer, Edward, New York, N. Y. Rubber softener. 246,052; Aug. 28; Serial No. 263,328; published June 5, 1928. Class 6.
Mautz Paint and Glass Company, Madison, Wis. Brushing lacquer. 245,898; Aug. 28; Serial No. 257,428; published Feb. 21, 1928. Class 16.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Tooth paste. 245,911; Aug. 28; Serial No. 263,962; published June 12, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Nose and throat sprays. 245,930–2; Aug. 28; Serial Nos. 264,442–4; published June 12, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Tooth paste. 245,933; Aug. 28; Serial No. 264,439; published June 12, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Nose and throat sprays. 245,934–5; Aug. 28; Serial Nos. 264,435–6; published June 12, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Magnesium hydroxide. 245,979–80; Aug. 28; Serial Nos. 263,501–2; published June 12, 1928. Class 6
McKesson & Robbins, Incorporated, Bridgeport, Conn. Alternative general tonics and laxatives. 245,981; Aug. 28; Serial No. 263,500; published June 12, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Ointment. 245,982; Aug. 28; Serial No. 263,499; published June 12, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Eyewash. 245,983; Aug. 28; Serial No. 263,498; published June 12, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Shampoo. 245,984; Aug. 28; Serial No. 263,497; published June 12, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Alternative general tonics and laxatives. 245,985–6; Aug. 28; Serial No. 263,494–5; published June 12, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Shampoo. 245,987; Aug. 28; Serial No. 263,490; published June 12, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Magnesia hydroxide. 245,988; Aug. 28; Serial No. 263,486; published June 12, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Deodorant. 246,007; Aug. 28; Serial No. 264,452; published June 12, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Deodorant. 246,008; Aug. 28; Serial No. 264,450; published June 12, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Deodorant. 246 009; Aug. 28; Serial No. 264,448; published June 12, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Throat spray and gargle. 246,010; Aug. 28; Serial No. 264,446; published June 12, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Tooth paste. 246,011; Aug. 28; Serial No. 264,445; published June 12, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Ointment. 246,012; Aug. 28; Serial No. 262,754; published June 12, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Shampoo. 246,013; Aug. 28; Serial No. 262,750; published June 12, 1928. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Ointment. 246,063; Aug. 28; Serial No. 262,755; published June 12, 1928. Class 6.
McKinney Manufacturing Company, Pittsburgh, Pa. Hinges. 246,071; Aug. 28. Class 13.
McKinney Manufacturing Company, Pittsburgh, Pa. Door latches. 246 072; Aug. 28. Class 25.
McNamara, Michael, Varnish Works, Detroit, Mich. Paints, varnishes, or lacquers. 245,908; Aug. 28; Serial No. 254,926; published Feb. 7, 1928. Class 16.

Mees, John, Chicago, Ill. Bread, rolls, cakes, and pastries. 245,929; Aug. 28; Serial No. 259,635; published June 12, 1928. Class 46.
Metal Alloys, Inc., Watervliet, N. Y. Iron-aluminum alloy. 245,997; Aug. 28; Serial No. 264,693; published June 12, 1928. Class 14.
Miami Coco Cola Bottling Co., Miami, Fla. Beverages sold as soft drinks. 245,967; Aug. 28; Serial No. 225,725; published Oct. 5, 1928. Class 45.
Miller Bros. Co., The, Cleveland and Fremont, Ohio. Poultry, eggs, cream, butter, etc. 245,915; Aug. 28; Serial No. 263,829; published June 12, 1928. Class 46.
Mitchell, Elmer D., & George J. Moe, Ann Arbor, Mich. Large leather balls. 245,907; Aug. 28; Serial No. 255,858; published June 5, 1928. Class 22.
Modern Maid Foods, Inc., Los Angeles, Calif. Pie-crust flour and waffle flour. 245,970; Aug. 28; Serial No. 263,718; published June 5, 1928. Class 46.
Morris, E., Mfg. Co., Detroit, Mich. Toilet combs of rubber, celluloid, and horn. 245,920; Aug. 28; Serial No. 260,693; published Apr. 17, 1928. Class 40.
Mortarless Tile Machine Co. Inc., Santa Barbara, Calif. Tile, building blocks, wall blocks, etc. 246,076; Aug. 28. Class 12.
Mullins, Henry A., Brooklyn, N. Y. Lotion for the hands and face. 246,044; Aug. 28; Serial No. 263,415; published June 5, 1928. Class 6.
Mulvihill-Goodwine Company, Chicago, Ill. Nonalcoholic beverages and syrups, etc. 246,079; Aug. 28. Class 45.
Murdoch, J. T., Inc., Newark, N. J. Leather shoes. 246,097; Aug. 28. Class 39.
Murphysboro Grocery Company, Murphysboro, Ill. Canned peas, corn, stringless beans, etc. 245,928; Aug. 28; Serial No. 259,746; published June 5, 1928. Class 46.
N-Ice Cream Company. (See Nelson, Christian K.)
No. 44 Supply Store. (See Stetina, Charles.)
Nelson, Christian K., doing business as N-Ice Cream Company, Chicago, Ill. Ice cream and ice-cream confections. 246,057; Aug. 28; Serial No. 263,224; published June 5, 1928. Class 46.
Newman & Scales, Chicago, Ill. Malt syrups. 246,077; Aug. 28. Class 46.
New York Shield Company, New York, N. Y. Dress shields. 245,993; Aug. 28; Serial No. 264,835; published May 29, 1928. Class 40.
North & Judd Manufacturing Company, New Britain, Conn. Bits, spurs, stirrups, etc. 246,030; Aug. 28; Serial No. 261,137; published Mar. 13, 1928. Class 3.
Orange Dairy Co., Orange, N. J. Milk. 245,974; Aug. 28; Serial No. 263,616; published June 12, 1928. Class 46.
Orgau-Iron Laboratories, Omaha, Nebr. Throat lozenges. 246,040; Aug. 28; Serial No. 265,232; published June 5, 1928. Class 6.
Orler, Jordan S., Nantasket Beach, Mass. Darners. 245,939; Aug. 28; Serial No. 264,186; published May 22, 1928. Class 40.
Osman, Leo S., Washington, D. C. Hairdressing, hair oil, coconnut shampoo, etc. 245,910; Aug. 28; Serial No. 263,967; published June 5, 1928. Class 6.
Palatelle Products Co. (See Hayes, Alma B.)
Pantone Processes Limited, London, England. Sheet metal. 246,005; Aug. 28; Serial No. 264,475; published June 5 1928. Class 14.
Pantone Processes Limited, London, England. Sheet metal. 246,006; Aug. 28; Serial No. 264,473; published June 5, 1928. Class 14.
Pendleton Woolen Mills, Portland, Oreg. Men's and boys' clothing. 246,087; Aug. 28. Class 39.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Bias tape, collar bands, dress shields, etc. 245,918; Aug. 28; Serial No. 260,846; published May 29, 1928. Class 40.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Safety pins. 245,922; Aug. 28; Serial No. 260,236; published Apr. 3, 1928. Class 40.
Penney, J. C., Company, Wilmington, Del., and New York N. Y. Bias tape, camisole tape, collar bands, etc. 246 024; Aug. 28; Serial No. 261,922; published June 5, 1928. Class 40.
Philadelphia Malt Warehousing Corporation, Philadelphia, Pa. Malt syrup. 245,963; Aug. 14; Serial No. 245,807; published June 12, 1928. Class 46.
Providence Chemical Laboratories, Providence, R. I. Insecticide. 245,917; Aug. 28; Serial No. 265,449; published June 12, 1928. Class 6.
Purity Food Company. (See Marsh, Loan J.)
Read, Edward P., doing business as The T. B. Donaldson Medicine Mfg. Company, Philadelphia, Pa. Blood tonic and medicinal preparation. 245,965; Aug. 28; Serial No. 239,061; published Dec. 27, 1927. Class 6.
Resbona Remedies Company, Inc., Johnstown, Pa. Medicinal preparation for kidney trouble. 245,901; Aug. 28; Serial No. 256,420; published June 5, 1928. Class 6.
Roberts, Cushman & Company, New York, N. Y. Hatbands and hatband fasteners. 246,070; Aug. 28. Class 40.
Robinson Milling Co., Salina, Kans. Wheat flour. 245,996; Aug. 28; Serial No. 264,697; published June 12, 1928. Class 46.
Romano, Edw. J., San Jose, Calif. Malt sirup. 246,064; Aug. 28; Serial No. 222,763; published July 13, 1926. Class 46.
Rosenblatt, Harry I., doing business as Armentiers Specialty Co., Baltimore, Md. Needles for mending hosiery by hand. 246,004; Aug. 28; Serial No. 264,481; published June 12, 1928. Class 40.
Rosenblum, Abraham, doing business as the Hudson Terminal Art Embroidery Shop, New York, N. Y. Materials stamped for embroidery. 245,991; Aug. 28; Serial No. 251,015; published May 29, 1928. Class 40.
Rubin, Henry, doing business as Best-Of-All Malt Company, Brooklyn, N. Y. Malt extract. 245,999; Aug. 28; Serial No. 264,611; published June 12, 1928. Class 46.
Rubinstein, Helena, Inc., New York, N. Y. Lip stick. 246,032; Aug. 28; Serial No. 265,725; published June 12, 1928. Class 6.
Ruma-Nox Laboratories. (See Fleishans, John T.)
Saniseptol Products Co. (See Kowalsky, Ezra.)
Schenectady Hygienic Laboratory, Schenectady, N. Y. Acetone, acetic acid, citric acid, etc. 245,990; Aug. 28; Serial No. 252,481; published June 12, 1928. Class 6.
Scovill Manufacturing Company, Waterbury, Conn. Common pins. 245,961; Aug. 28; Serial No. 246,366; published May 8, 1928. Class 40.
Sellen, Peter, Seattle, Wash. Salmon eggs for trout bait. 245,938; Aug. 28; Serial No. 264,261; published June 5, 1928. Class 22.
Service Grocer Company, Inc., Detroit, Mich. Toothpicks. 245,937; Aug. 28; Serial No. 264,389; published June 12, 1928. Class 44.
Shelter Paint and Varnish Works. (See Slipyan, Nathan.)
Shepard, Joseph C., Wilmington, N. C. Disinfectants and deodorizers. 246,034; Aug. 28; Serial No. 265,698; published June 12, 1928. Class 6.
Silbar, Allen, doing business as Juliet Products Co., Chicago, Ill. Preparation for filling cigar and cigarette lighters. 245,989; Aug. 28; Serial No. 263,437; published June 5, 1928. Class 6.
Simplex Flux & Solder Company of America, Cleveland, Ohio. Soft solders, hard solders, and aluminum solders. 245,925; Aug. 28; Serial No. 260,145; published June 5, 1928. Class 14.
Slipyan, Nathan, doing business as Shelter Paint and Varnish Works, New York, N. Y. Ready-mixed paints. 246,020; Aug. 28; Serial No. 262,140; published June 5, 1928. Class 16.
Smith Separator Company, Tulsa, Okla. Well drilling and operating appliances. 246,095; Aug. 28. Class 23.
Spicer Manufacturing Corporation, South Plainfield, N. J. Universal joints, couplings. 246,082; Aug. 28. Class 23.
Standard Biscuit Company, Des Moines, Iowa. Biscuits. 245,960; Aug. 28; Serial No. 247,294; published June 5, 1928. Class 46.
Standard Imports Limited, Montreal, Canada. Condiments. 245,959; Aug. 28; Serial No. 247,872; published May 29, 1928. Class 46.
Stetina, Charles, doing business as No. 44 Supply Store, Cleveland, Ohio. Malt syrup. 246,003; Aug. 28; Serial No. 264,484; published May 29, 1928. Class 46.
Stewart, William E., Mfg. Co., Flint, Mich. Toy hand cars, kiddie cars, scooters, and play cars. 246,062; Aug. 28; Serial No. 262,974; published June 5, 1928. Class 22.
Stober, Franklin I., doing business as The Stober Manufacturing Co., New York, N. Y. Bed and reading trays. 246,090; Aug. 28. Class 32.
Stockton Paint Company, The, Stockton, Calif. Liquid, paste, or semipaste paint, oil stain cement coating, etc. 245,969; Aug. 28; Serial No. 221,461; published Dec. 8, 1925. Class 16.
Stratton, John D., doing business as Stratton's Laboratories, Louisville, Ky. Laxative. 246,033; Aug. 28; Serial No. 265,704; published June 12, 1928. Class 6.
Stroh Products Company, The, Detroit, Mich. Malt syrup. 245,897; Aug. 28; Serial No. 257,453; published May 29, 1928. Class 46.
Sushelsky, Maurice, doing business as Independent Wholesale Grocery Co., Salem, Mass. Canned pineapple, fruits for salad, corn, etc. 245,909; Aug. 28; Serial No. 254,731; published May 29, 1928. Class 46.
Tangalakis Bros., Inc., Chicago, Ill. Shoe creams and dressings. 246,103; Aug. 28. Class 4.
Thomlinson, William, Limited, Partick, Glasgow, Scotland. Footballs (Association and Rugby) and football covers. 245,947–8; Aug. 28; Serial Nos. 264,063–4; published June 5, 1928. Class 22.
Tiefenthaler, Gus, doing business as Wisconsin Creamery Company, St. Louis, Mo. Evaporated milk. 246,043; Aug. 28; Serial No. 265,126; published June 12, 1928. Class 46.
Twin Coupler Company, Inc., The, Poughkeepsie, N. Y. Radio reception elements. 246,073; Aug. 28. Class 21.
Vanadium Corporation of America, Bridgeville, Pa. Alloys. 246,056; Aug. 28; Serial No. 263,240; published June 5, 1928. Class 14.
Van Dyk & Reeves, Inc., New York, N. Y. Olives. 245,972; Aug. 28; Serial No. 263,674; published June 12, 1928. Class 46.
Velleda Laboratory. (See Green, Regina.)
Venus Manufacturing Company, Minneapolis, Minn. Durable metal alloy. 245,958; Aug. 28; Serial No. 247,918; published June 5, 1928. Class 14.
Verran, H. E., Company Incoporated, Stamford, Conn. Cotton fabric stamped with embroidery patterns, etc. 245,924; Aug. 28; Serial No. 260,150; published May 29, 1928. Class 40.
Waides Koh-I-Noor, Inc., Long Island City, N. Y. Clasps 245,927; Aug. 28; Serial No. 259,890; published May 22, 1928. Class 40.
Ware Shoals Manufacturing Company, Ware Shoals, S. C. Cotton pilloweases and sheets. 245,891; Aug. 28; Serial No. 259,311; published June 12, 1928. Class 42.

Weeks, Raymond M., Philadelphia, Pa. Dry powdery material. 245,893; Aug. 28; Serial No. 258,779; published June 5, 1928. Class 16.
Western Electric Company, Incorporated, New York, N. Y. Ferromagnetic alloys. 245,899; Aug. 28; Serial No. 257,260; published June 12, 1928. Class 14.
Whiting & Davis Company, Plainville, Mass. Mesh bags. 246,038; Aug. 28; Serial No. 265,351; published June 5, 1928. Class 3.
Wildfeuer Bros., New York, N. Y. Boots, shoes, and pumps. 246,093; Aug. 28. Class 39.
Wisconsin Creamery Company. (See Tiefenthaler, Gus.)
Woodside, Edward A., Oakland, Calif. Cookies. 245,895; Aug. 28; Serial No. 257,845; published June 5, 1928. Class 46.
Wurlitzer, Rudolph, Mfg. Company, The, North Tonawanda, N. Y. Organs, pianos, etc. 246,074; Aug. 28. Class 36.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

American Cone & Pretzel Company, Philadelphia, Pa. Rold Gold Butter Pretzels. For Pretzels. 34,467; Aug. 28.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Naturelle Furs of the Loom. For Pile Fabrics in the Piece. 34,468; Aug. 28.
Bohemian Distributing Co. Inc., Los Angeles, Calif. Bohemian Pride. For Malt Syrup. 34,469; Aug. 28.
Chase & Sanborn, Boston, Mass. Chase & Sanborn's Tea House. For Tea. 34,470; Aug. 28.
Chula Vista Citrus Association, Chula Vista, Calif. Imp. For Lemons. 34,471; Aug. 28.
Crane, W. B., & Company, Portland, Oreg. Alaska Dry. For Ginger Ale. 34,472; Aug. 28.
Cubbison, Harry G., doing business as Cubbison Cracker Co., Los Angeles, Calif. Cubbison's. For Toast. 34,473; Aug. 28.
Delray Hat, Inc., New York, N. Y. Swaggerbonds. For Hats. 34,474; Aug. 28.
Doughnut Machine Corporation, New York, N. Y. Downyflake Coffee—The Flavor of Hospitality. For Coffee. 34,475; Aug. 28.
Enge, Nena, doing business as Nena Lax Co., New York, N. Y. U-Me-Lax. For Laxative. 34,476; Aug. 28.
Engelhard, A., & Sons Co., Louisville, Ky. Pendennis (Individual Package). For Pure Egg Noodles. 34,477; Aug. 28.
First National Laboratories, Inc., Lehighton, Pa. Dr. Whites Horehound Cough Balsam. For Medicine for the Relief of Coughs, Colds, Hoarseness, Sore Throat, Croup, Whooping Cough. 34,478–9; Aug. 28.
Granger, Henry G., doing business as Granger Farms, Buskirk, N. Y. Granger Farms Mineralized Candy. For Candy. 34,480; Aug. 28.
Hep Grain Products Incorporated, Lodi and Spencer, Ohio. It's Good for a Whole Family—It's Good for any Meal. For Cereal Product. 34,481; Aug. 28.
Hershel California Fruit Products Co., Inc., San Jose, Calif. Salsa Di Pomidoro. For Canned Tomato Sauce. 34,482; Aug. 28.
High-Test Malt Extract Co., Chicago, Ill. Hop-To-It. For Malt Syrup. 34,483; Aug. 28.
Hogue-Sprague Corporation, Lynn, Mass. Quality Shoes. For Footwear. 34,484; Aug. 28.
Imperial Valley Citrus Exchange, Brawley, Calif. Desert King. For Fresh Grapefruit. 34,485; Aug. 28.
Joannes Brothers Company, Green Bay, Wis. Jomalt. For Malt Syrup. 34,486; Aug. 28.
Junior Food Products Company. (See Wilson, George C.)
Kauffmann, Louis F., doing business as Kauffmann's Lunch Service, St. Louis, Mo. Kauffmann's Lunch Service. For Lunches. 34,487; Aug. 28.
Longino, Eva, Houston, Tex. Italia. For Dressing. 34,488; Aug. 28.
Miller, J. F., & Sons, Healdsburg, Calif. We—Spirit of Healdsburg. For Fresh Apples. 34,489; Aug. 28.
Miller, James W., doing business as Wolverene Food Products Company, Eldon, Mo. Wolverene. For Malt Syrup. 34,490; Aug. 28.
National Carbon Company, Inc., New York, N. Y. Eveready Layerbilt B Battery. For Electric Batteries. 34,491; Aug. 28.
Nena Lax Co. (See Enge, Nena.)
Nojiri, Nobuzo, doing business as Nojiri Fruit Co., Sacramento, Calif. Full back. For Lettuce. 34,492; Aug. 28.
Ohio Chemical & Manufacturing Company, The, Cleveland, Ohio. Nitrous-Oxid. For Compressed Gas by Being Affixed to the Tanks or Containers in Which it is Distributed. 34,493; Aug. 28.
Ohio Chemical & Manufacturing Company, The, Cleveland, Ohio. Ethylene. For Compressed Gas by Being Affixed to the Tanks or Containers in Which it is Distributed. 34,494; Aug. 28.
Pexel Co., The, Chicago, Ill. Pexel Makes Jelly Jell. For Unflavored Prepared Fruit Pectin for Making Jelly from Fruit Juices. 34,495; Aug. 28.
Pollock Paper & Box Company, Dallas, Tex. Pullman Loaf. For Bread. 34,496; Aug. 28.
Pruden, Harry B., doing business as Sanlando Company, Orlando, Fla. Lacoochee. For Automobile Top Dressing. 34,497; Aug. 28.
Randall, Howard M., Tekonsha, Mich. Randall's Ready-To-Serve Chicken. For Canned Chicken. 34,498; Aug. 28.
Rea-Patterson Milling Company, The, Coffeyville, Kans. Sweet and Pure. For Flour. 34,499; Aug. 28.
Rietzke, Eugene, Beaumont, Calif. Desert Gold Unsulphured. For Prunes. 34,500; Aug. 28.
Roseknit Hosiery Company, Sumter, S. C. Macallan. For Hosiery. 34,501; Aug. 28.
Sackett, Hubert, New York, N. Y. Sackett De-Nicotined Junior Cigars. For Tobacco Products for Smoking. 34,502; Aug. 28.
Sanlando Company. (See Pruden, Harry B.)
Seed Filter & Manufacturing Co., Inc., New York, N. Y. Dish Protector No. 2. For Water-Faucet Attachments. 34,503; Aug. 28.
Seed Filter & Manufacturing Co., Inc., New York, N. Y. Dish Protector No. 3. For Hot and Cold Water Faucet Attachments. 34,504; Aug. 28.
Superior Type Company, The, Chicago, Ill. Acrobatic Clowns. For Sets of Rubber Type Characters. 34,505; Aug. 28.
Superior Type Company, Chicago, Ill. Mammoth Circus. For Sets of Rubber Type Characters. 34,506; Aug. 28.
Superior Type Company, Chicago, Ill. Midget Circus. For Sets of Rubber Type Characters. 34,507; Aug. 28.
Superior Type Company, The, Chicago, Ill. Trained Animals. For Sets of Rubber Type Characters. 34,508; Aug. 28.
Visco Chemical Products Company, Cleveland, Ohio. Pipe-Flo Drain Pipe Opener. For Chemicals for Opening and Cleansing Drains. 34,509; Aug. 28.
Wilson, George C., doing business as Junior Food Products Company, Tyrone, Pa. Jack and Jill. For Gelatine Dessert. 34,510; Aug. 28.
Wolverene Food Products Company. (See Miller, James W.)
Wyell Laboratories, The, Kearny, N. J. Sizzle, Silver Cleaner. For Sheets of Metallic Foil Employed in Removing Tarnish from Metallic Surfaces. 34,511; Aug. 28.
Young, W. F., Inc., Springfield, Mass. Absorbine Jr. For Antiseptic Liniment. 34,512; Aug. 28.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Collingbourne Mills, Inc., Elgin, Ill. Collingbourne's 4 Cord Twine. For Parcel-Post Twine. 11,184; Aug. 28.
Crystal Chemical Company, Inc., The, New York, N. Y. Z. B. T. His Majesty's Choice. For Talcum Powders for Nursery and Toilet Use. 11,185; Aug. 28.
Crystal Chemical Company, Inc., The, New York, N. Y. Z. B. T. Fine for Baby's Body—Fine for Every Body. For Talcum Powders for Nursery and Toilet Use. 11,186; Aug. 28.
Fostoria Screw Co., The, Fostoria, Ohio. Under the Chassis Repairs. For the Blue-Print Line of Bolts and Bushings. 11,187; Aug. 28.
Maddox, W. L., doing business as The Sign Shop, Hattiesburg, Miss. Cut-Out Coffee Cup & Saucer Design. For Coffee or Tea. 11,188; Aug. 28.
Meletio Sea Food Company, St. Louis, Mo. Meletio. For Fish and Other Sea Food. 11,189; Aug. 28.
Sign Shop, The. (See Maddox, W. L.)
Tionesta Lumber Company, Pittsburgh, Pa. Wood—Buy it we Supply it. For Wood Products. 11,190; Aug. 28.
Union Tobacco Company, The, Wilmington, Del., and New York, N. Y. Three Kings Cigarettes—Your Tongue Tells the Truth. For Cigarettes. 11,191; Aug. 28.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Ace High Malt Extract Company. (See Stoy, Henry V.)
Acme Laboratories, Inc., New York, N. Y. Skin creams, nail polish, and remover. 255,621; Aug. 28. Class 6.
Agfa Ansco Corporation. (See Ansco Photoproducts, Inc., assignor.)
American Nicotine Company, Henderson, Ky. Nicotine dusting powder. 268,839; Aug. 28. Class 6.
Amform. (See Lacks, Felix A.)
Anderson, G. H., Estate, doing business as Howard Fruit Company, San Jose, Calif. Fresh deciduous fruits. 253,930; Aug. 28. Class 46.
Annette's Perfect Cleanser Co. (See Jennings, Annette R.)
Ansco Photoproducts, Inc., assignor to Agfa Ansco Corporation, Binghamton, N. Y. Photographic cameras. 260,308; Aug. 28. Class 26.
Ansco Photoproducts, Inc., assignor to Agfa Ansco Corporation, Binghamton, N. Y. Photographic cameras. 260,927–8; Aug. 28. Class 26.
Ansco Photoproducts, Inc., assignor to Agfa Ansco Corporation, Binghamton, N. Y. Photographic cameras. 260,930; Aug. 28. Class 26.
Antidolor Mfg. Co., The. (See Waite, Ralph B.)
Armstrong Cork Company, Pittsburgh, Pa. Preparation in the nature of a lacquer. 266,507; Aug. 28. Class 16.
Atlantic Chemical Company, Irvington, N. J. Lacquer, paint enamels, etc. 268,133; Aug. 28. Class 16.
Atlas Embroidery Company, West New York, N. J. Embroidered piece goods. 257,334; Aug. 28. Class 42.
Auerbach Company, Salt Lake City, Utah. Absorbent cotton. 269,078; Aug. 28. Class 44.
Baker, George W., Shoe Co., Brooklyn, N. Y. Shoe counters. 268,572; Aug. 28. Class 39.
Barker-Miller Distributing Company, Phoenix, Ariz. Fresh melons. 266,968; Aug. 28. Class 46.
Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic lenses. 268,960; Aug. 28. Class 26.
Bertram, Chr., Stendal, Germany. Food preservatives. 269,279; Aug. 28. Class 6.
Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics. 269,506; Aug. 28. Class 42.
Bochmann, F. A., & Co., Inc., Philadelphia, Pa. Worsted and woolen piece goods. 264,274; Aug. 28. Class 42.
Bochmann, F. A., & Co., Inc., Philadelphia, Pa. Worsted and woolen piece goods. 264,276; Aug. 28. Class 42.
Braithwaite, Issac, & Son, Engineers, Limited, Kendal, England. Machines for washing garments, etc. 266 353; Aug. 28. Class 24.
Brandt, William S., doing business as Smart Fashion Dress Co., also Smart Dress Co., New York, N. Y. Ladies' and misses' dresses. 266,643; Aug. 28. Class 39.
Bronston Bros. and Co., Inc., New York, N. Y. Hats. 268,578; Aug. 28. Class 39.
Brown & Bigelow, St. Paul, Minn. Wall calendars, wall mailing cards, etc. 264,138; Aug. 28. Class 28.
Brown-Dunkin Dry Goods Company, Tulsa, Okla. Dresses, hats, and coats. 264,139; Aug. 28. Class 39.
Brownell & Field Co., Providence, R. I. Canned fruits, vegetables, and berries, egg noodles, rice, etc. 268,767; Aug. 28. Class 46.
Bryan, William R., Altoona, Pa. Preparation for treating blood poisoning and skin eruptions, etc. 265,422; Aug. 28. Class 6.
Burge, John W., Crichton, Ala. Babbitt metal. 265,947; Aug. 28. Class 14.
California Medicinal Wine Co. (See Val Bros.)
Carnesecca, Jacop, doing business as Safe Wash Bleach Co., San Jose Calif. Bleaching compound. 267,833; Aug. 28. Class 6.
Carter Dry Goods Company, Inc., Louisville, Ky. Tobacco canvas. 265,885–7; Aug. 28. Class 42.
Cavendish Chemical Corp, New York, N. Y. Preparation for treatment of rheumatism, etc. 268,769; Aug. 28. Class 6.
Chemische Fabrik von Heyden A. G., Radebeul, near Dresden, Germany, assignor to Heyden Chemical Corporation, Inc., New York, N. Y. Mixtures of soap and Na-p. toluenesulfochloramide, etc. 239,966; Aug. 28. Class 4.
Chemische Fabrik von Heyden, A. G., Radebeul, near Dresden, Germany. Sodium-p. toluenesulfochloramide, etc. 268,729; Aug. 28. Class 6.
Chicago Pneumatic Tool Company, New York, N. Y. Electrical apparatus and machines. 268,481; Aug. 28. Class 21.
Citrus Fruit Association of Ontario, Ontario, Calif. Oranges and grapefruit. 245,140; Aug. 28. Class 46.
Cleveland Heater Company, The, Cleveland, Ohio. Storage and heating tanks, water heaters, etc. 267,406; Aug. 28. Class 34.
Clemens, Herbert A., doing business as Clemens Chemical Company, Fort Wayne, Ind. Stomach bitters. 269,392; Aug. 28. Class 6.
Clover Splint Coal Company, Pittsburgh, Pa. Coal. 268,351–3; Aug. 28. Class 1.
Coast Cedar Shingle Company, Seattle, Wash. Wooden shingles. 268,582–4; Aug. 28. Class 12.
Cohn, J. & M., New York, N. Y. Hats. 268,531; Aug. 28. Class 39.
Collins, Joseph P., St. Louis, Mo. Wrapping paper. 255,897–903; Aug. 28. Class 37.
Commutator Cleanser Co., Brooklyn, N. Y. Cleaning compound for metals. 268,967; Aug. 28. Class 4.
Conley, Christopher H., doing business as Conley's Bird Supply House, Fort Wayne, Ind. Tonic for birds. 259,622; Aug. 28. Class 6.
Continental Products Corporation, Los Angeles, Calif. Cleanser, sterilizer, deodorant, and disinfectant. 268,680; Aug. 28. Class 6.
Corinna Incorporated, doing business as Frezo Laboratories, New York, N. Y. Shaving cream. 268,272; Aug. 28. Class 4.
Craftwoven Fabrics, Inc., Taunton, Mass. Woven cotton fabrics in the piece. 255,640; Aug. 28. Class 42.
Crescent Hat and Cap Company, New York, N. Y. Hats and caps. 266,792; Aug. 28. Class 39.
Crofut & Knapp Co., The, South Norwalk, Conn. Hats for men. 267,408; Aug. 28. Class 39.
Crown Willamette Paper Company, San Francisco, Calif. Papers. 235,253; Aug. 28. Class 37.
Crown Willamette Paper Company, San Francisco, Calif. Bags, containers, etc. 235,254; Aug. 28. Class 2.
Curtiss Candy Company, The, Chicago, Ill. Candy. 268,489; Aug. 28. Class 46.
Cusack, Edward C., New York, N. Y. Puzzles and games. 266,303; Aug. 28. Class 22.
Cyclops Steel Company, Inc., Titusville, Pa. Steels. 265,143; Aug. 28. Class 14.
Cyclops Steel Company, Inc., Titusville, Pa. Chromium-tungsten die steels. 265,144; Aug. 28. Class 14.
Cyclops Steel Company, Inc., Titusville, Pa. Nonrusting nonstaining alloy steels. 265,145; Aug. 28. Class 14.
Cyclops Steel Company, Inc., Titusville, Pa. Chromium-tungsten die steels. 265,146; Aug. 28. Class 14.
Davis, Helen, doing business as The Helen Davis Cap Co., Topeka, Kans. Caps. 264,364; Aug. 28. Class 39.
Dearmitt, John F., Florence, Ariz. Preparation for the treatment of coughs, etc. 266,918; Aug. 28. Class 6.
De La Montanya, P., doing business as Mount Rouge Company, San Francisco, Calif. Medicinal tonic. 269,098; Aug. 28. Class 6.
Dental Manufacturing Company Limited, The, London, England. Plastic preparations for making dentures. 268,148; Aug. 28. Class 44.
Ditto, Incorporated, Chicago, Ill. Paper for stationery use. 259,624; Aug. 28. Class 37.
Doughnut Machine Corporation, New York, N. Y. Coffee. 269,829; Aug. 28. Class 46.
Drake, Norman C., doing business as Dr. Timm's Medicine Co., Rockville Center, N. Y. Tonic. 269,347; Aug. 28. Class 6.
Duarte Foothill Citrus Association, Duarte, Calif. Oranges. 256,457; Aug. 28. Class 46.
Dundee Textile Company, Passaic, N. J. Silk in the piece. 269,949; Aug. 28. Class 42.
Dunne, Frank W., Co., Oakland, Calif. Enamel paint. 266,796; Aug. 28. Class 16.
Dymnicki, Joseph, doing business as Dym-Nosmel, New London, Conn. Liquid deodorant. 269,449; Aug. 28. Class 6.
Dym-Nosmel. (See Dymnicki, Joseph.)
Evansville Paint & Varnish Co. (See Red Spot Paint & Varnish Co.)
Excelsior Motor Mfg. & Supply Co., Chicago, Ill. Refrigerating machines. 268,919; Aug. 28. Class 31.
Executive Council of the Alpha Delta Phi Fraternity, The, New York, N. Y. Fraternity pins and pendants. 263,382; Aug. 28. Class 28.
Express Rubber Co., Limited, The, London, England. Waterproof coats and capes. 265,834; Aug. 28. Class 39.
Fair, The, Chicago, Ill. Sanitary napkins. 268,976; Aug. 28. Class 44.
Fairchild Bros. & Foster, New York, N. Y. Concentrate of the fresh pancreas gland, of the water-soluble constituents. 268,857; Aug. 28. Class 6.
Farnstan Company, The, Ardmore, Pa. Stable solution of alkali hypoiodite. 269,400; Aug. 28. Class 6.
Fishel, Lillian N., doing business as Kwickrid Remedy Company, New York, N. Y. Headache remedies. 269,348; Aug. 28. Class 6.
Fredonia Products Co., Inc., Fredonia, N. Y. Catsup. 267,118; Aug. 28. Class 46.
Frezo Laboratories. (See Corinna Incorporated.)
Fries & Fries Co., The, doing business as Golden Mist Laboratories and Golden Mist Parfumerie, Cincinnati, Ohio. Astringents, astringent cerates, beauty creams, etc. 269,108; Aug. 28. Class 6.
Fuerest, Irvin, New York, N. Y. Candy. 268,921; Aug. 28. Class 46.
Gabrielsen, Mrs. Johndine, San Jose, Calif. Special prune confection. 268,366; Aug. 28. Class 46.
Geiser, Emile, La Chaux-de-Fonds, Switzerland. Watch and clock springs, hairsprings, and hands, etc. 266,169; Aug. 28. Class 27.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Gillette Safety Razor Company, Boston, Mass. Cutters with replaceable blades. 267,650; Aug. 28. Class 23.
Gillette Safety Razor Company, Boston, Mass. Cutters with replaceable blades. 268,600; Aug. 28. Class 23.
Given Bros. Shoe Co., El Paso, Tex. Shoes. 266,729; Aug. 28. Class 39.
Gleesonite Road Corp., Chicago, Ill. Bituminous paving material. 268,782; Aug. 28. Class 12.
Golden Mist Laboratories. (See Fries & Fries Co.)
Goldsmith, J., & Sons, New Britain, Conn. Malt syrup. 264,372; Aug. 24. Class 46.
Grady-Travers Company, The, New York, N. Y. Rope. 268,864; Aug. 28. Class 7.
Green, Michael, Philadelphia, Pa. Cigars. 267,359; Aug. 28. Class 17.
Gruehy Faience and Tile Company, Boston, Mass., and Philadelphia, Pa. Floor tiles, wall tiles, etc. 268,093; Aug. 28. Class 12.
Guarantee Exterminating Company. (See Rosen, Samuel S.)
Haartz, J. C., Company, New Haven, Conn. Waterproof fabrics. 268,783; Aug. 28. Class 50.
Hammond, Benjamin F., Wichita, Kans. Cartoons. 268,096; Aug. 28. Class 38.
Hansen, O. C., Mfg. Co., Milwaukee, Wis. Unlined leather gloves for women. 268,785; Aug. 28. Class 39.
Hatfield, Rolland F., sr., doing business as Ro-Hel-Gen Products Co., Not Inc., Cicero, Ill. General household cleaner. 263,395; Aug. 28. Class 4.
Health Laboratories. (See Walker, W. & H., Inc.)
Heinrich & Winterling Inc., New York, N. Y. China. 257,065; Aug. 28. Class 30.
Helm, John C. P., doing business as Helm Laboratories, New Orleans, La. Metal polishes, sweeping compounds, etc. 258,870; Aug. 28. Class 4.
Henckels, J. A., Solingen, Germany. Knives, scissors, etc. 263,002; Aug. 28. Class 23.
Henckels, J. A., Solingen, Germany. Nail scissors, corn razors, etc. 268,982; Aug. 28. Class 44.
Hercules Glue Company, San Francisco, Calif. Spreaders for combination with insecticides. 268,280; Aug. 28. Class 6.
Herndon, Wade S., Wilbanks, N. C. Liquid compound, etc. 265,963; Aug. 28. Class 6.
Herold, Harry, doing business as Herold Drug Co., Petaluma, Calif. Preparation for the removal of callous and corns. 268,865; Aug. 28. Class 6.
Heyden Chemical Corporation, Inc. (See Chemische Fabrik von Heyden A. G., assignor.)
Heywood Boot & Shoe Co., Worcester, Mass. Leather or fabric boots and shoes. 244,694; Aug. 28. Class 39.
Hilo Varnish Corporation, New York, N. Y. Black baking japans, paint enamels, and varnishes. 268,983; Aug. 28. Class 16.
Hollinger, Samuel I., doing business as Hollinger Remedy Co., Elkhart, Ind. Medicine. 263,824; Aug. 28. Class 6.
Hotstream Heater Company, The, Cleveland, Ohio. Gas and oil water heaters. 266,374; Aug. 28. Class 34.
Howard Fruit Company. (See Anderson, G. H., Estate.)
Howarth, John F., Colorado Springs and Gunnison, Colo. Bait hooks, gut leaders, and trout flies. 267,418; Aug. 28. Class 22.
Hudson, Charles M., assignor to Hudson & Company, Inc., New York, N. Y. Preparation for removing superfluous hair. 256,936; Aug. 28. Class 6.
Hugo, Walter E., Hammond, Ind. Pop corn raw and popped and pop-corn seasoning. 268,040; Aug. 28. Class 46.
Hyman, Harry A., doing business as United Shirt Distributors, Detroit, Mich. Caps, shirts, neckties, etc. 267,421; Aug. 28. Class 39.
Imperial Trust for the Encouragement of Scientific and Industrial Research, The, London, England. Metal-working taps, surface plates, and leading screws. 235,777; Aug. 28. Class 23.
Indiana Lamp Corporation, Connersville, Ind. Combination vehicle stop and tail lamps. 268,787; Aug. 28. Class 21.
International Agricultural Corporation, New York, N. Y. Fertilizers. 260,389; Aug. 28. Class 10.
Isabey-Paris, Inc., Wilmington, Del., and New York, N. Y. Talcum and bath powder, lotions, etc. 269,290–1; Aug. 28. Class 6.
Jacobs, Paul B., doing business as Jaynard Cle., New York, N. Y. Astringents, astringent cerates, beauty creams, etc. 269,292; Aug. 28. Class 6.
Jaffee, L. J. & C. D., Inc., New York, N. Y. Gloves, pajamas, jackets, etc. 267,766 8; Aug. 28. Class 39.
Jaffee, L. J. & C. D., Inc., New York, N. Y. Gloves, pajamas, lumber jackets, etc. 267,771–2; Aug. 28. Class 39.
Janazen Company, The, Cincinnati, Ohio. Salt, baking powder, and sal soda. 266,595; Aug. 28. Class 6.
Jaynard Cle. (See Jacobs, Paul B.)
Jennings, Annette R., doing business as Annette's Perfect Cleanser Co., Boston, Mass. Dry-cleaning composition. 268,927; Aug. 28. Class 4.
Kampf, H. D., Inc., New York, N. Y. Chemical preparation for removing rust. 268,498; Aug. 28. Class 6.
Kasko Products Company, Inc., Philadelphia, Pa. Sweetening compound and a compound of chocolate and malt. 263,091; Aug. 28. Class 46.
Keeler Brass Company, Grand Rapids, Mich. Screws 269,588; Aug. 28. Class 13.
Kern, John J., doing business as John J. Kern & Co., Chicago, Ill. Mustard. 259,212; Aug. 28. Class 46.
Keystone Laboratories, Memphis, Tenn. Perfumes, toilet water, etc. 268,869; Aug. 28. Class 6.
Klo-Ro-San Company. (See Presenger, Henry J.)
Kress, S. H., & Co., New York, N. Y. Assorted bonbons and chocolates. 268,929; Aug. 28. Class 46.
Kunkel Manufacturing Company, The, Hart, Mich. Automobile heaters. 259,733; Aug. 28. Class 19.
Kwickrid Remedy Company. (See Fishel, Lillian N.)
Laboratoire de Pharmacologie, Inc., New York, N. Y. Preparation for the treatment of the liver. 264,891; Aug. 28. Class 6.
Laboratory Chemicals, Inc., Albany, N. Y. Polish. 267,063; Aug. 28. Class 16.
Lacks, Felix A., doing business as Amform, New York, N. Y. Ladies' hats and hoods for ladies' hats. 268,501; Aug. 28. Class 39.
Lagno Laboratories, Inc., Lockport, Ill. Compound for the treatment of coccidiosis, etc., of the skin and bowels of poultry, hogs, etc. 246,417; Aug. 28. Class 6.
La Lysine Fornari International American Corporation, Boston, Mass. Antiseptic preparation. 268,794; Aug. 28. Class 6.
La Salle Medicine Company, Los Angeles, Calif. Salts. 267,593; Aug. 28. Class 6.
Lester, Dudley W., doing business as The Lester Tobacco Company, Chicago, Ill. Cigarettes. 269,670; Aug. 28. Class 17.
Lilly Tree Surgeons, Inc., The, Rye, N. Y. Tree-cavity filler. 264,726; Aug. 28. Class 12.
Liquid Veneer Corporation, Buffalo, N. Y. Liquids for cleaning automobile, steam, or hot-water radiators. 267,972; Aug. 28. Class 6.
Lowe, Joe, Corporation, Brooklyn, N. Y. Doughnuts. 269,734; Aug. 28. Class 46.
M & H Company, The, Cleveland, Ohio. Soaps. 262,171; Aug. 28. Class 4.
M-Roid Co. (See Metcalf, Arthur H.)
Macy, R. H., & Co., Inc., New York, N. Y. Shoes. 265,732; Aug. 28. Class 39.
Marcel Franck, Inc., New York, N. Y. Powder to be rubbed on stockings in order to increase their life. 269,229; Aug. 28. Class 6.
Master Products Mfg. Co. (See Wallerstein, Charles A.)
May Department Stores Company, The, St. Louis, Mo. Sheets and pillowcases. 260,646; Aug. 28. Class 42.
Megargee Bros. Inc., Scranton, Pa. Toilet paper. 269,195; Aug. 28. Class 37.
Men's Wear Service Corporation, Chicago, Ill. Silk, wool, or cotton mufflers, hosiery, etc. 255,420; Aug. 28. Class 39.
Metcalf, Arthur H., doing business as M-Roid Co., New Haven, Conn. Ointment. 264,037; Aug. 28. Class 6.
Miami Malt Company. (See Morris, Lewis.)
Michelsohn, I., & Son, New York, N. Y. Hosiery. 267,500; Aug. 28. Class 39.
Mobile Grocery Company, also operating as Southern Products Co., Mobile, Ala. Candy and peanut butter. 268,876; Aug. 28. Class 46.
Molphus, Melvin J., West Palm Beach, Fla. Preparation for growing hair. 264,493; Aug. 28. Class 6.
Montgomery Ward & Co., Incorporated, Chicago, Ill. Leather boots and shoes. 268,743; Aug. 28. Class 39.
Morris, Lewis, doing business as Miami Malt Company, Miami, Fla. Malt syrup. 268,053; Aug. 28. Class 46.
Morrison, Louis, doing business as Morrison Fountain Pen Co., New York, N. Y. Fountain pens and pencils. 269,418; Aug. 28. Class 37.
Mount Rouge Company. (See De La Montanya, P.)
Murphy, Richard J., Washington, D. C. Used automobiles. 266,550; Aug. 28. Class 19.
Myers, E., Lye Co., St. Louis, Mo. Lye or caustic soda. 221,913; Aug. 28. Class 6.
N. Y. Rayon Importing Co., Inc., New York, N. Y. Rayon yarns and threads. 268,608; Aug. 28. Class 43.
National Accessories Corporation, Los Angeles, Calif. Electrical spotlights. 259,415; Aug. 28. Class 21.
National Cellulose Corporation, New York, N. Y. Sanitary napkins, surgical dressings, etc. 268,382; Aug. 28. Class 44.
National Fraternity of Alpha Chi Rho, New York, N. Y. Fraternity badges, lapel buttons, etc. 265,556; Aug. 28. Class 28.
Norris Grain Company, Chicago, Ill. Oats. 255,862; Aug. 28. Class 46.
Odorono Company, The, Cincinnati, Ohio. Deodorants. 268,799; Aug. 28. Class 6.
Oil Products Appliance Company, Maywood, Ill. Portable oil-pump tank with battery of containers. 269,249; Aug. 28. Class 23.
Old Trusty Company, The. (See Rollins, Calvin.)
Oltman, H. Chris, doing business as Spearo Manufacturing Company, Joplin, Mo. Dentifrice, tooth powder, etc. 268,745; Aug. 28. Class 6.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Omega Chemical Company, The, New York, N. Y. Preparation for the treatment of rheumatism, lumbago, etc. 263,510; Aug. 28. Class 6.
Omega Chemical Company, The, New York, N. Y. Preparation for the treatment of rheumatism, lumbago, etc. 263,887; Aug. 28. Class 6.
Pacific Chemical Company, Los Angeles, Calif. Moth repellant. 268,801; Aug. 28. Class 6.
Pacific Coast Canners, Inc., Oakland, Calif. Canned fruits and vegetables. 242,742; Aug. 28. Class 46.
Pacific Coast Canners, Inc., Oakland, Calif. Canned fruits and vegetables. 243,279; Aug. 28. Class 46.
Pacific Trading Co., Inc., San Francisco, Calif. Canned vegetables. 269,743; Aug. 28. Class 46.
Para Rubber Company, Newark, N. J. Water-repelling shower curtains. 260,696; Aug. 28. Class 13.
Paraffine Companies, Inc., The, San Francisco, Calif. Building and insulating paper, etc. 262,676; Aug. 28. Class 12.
Penn Products Corporation, Aspers, Pa. Clay. 268,699; Aug. 28. Class 1.
Peoples Drug Stores, Inc., Washington, D. C. Insecticide. 268,935; Aug. 28. Class 6.
Pfaffman Egg Noodle Company, The, Cleveland, Ohio. Alimentary paste products. 268,244; Aug. 28. Class 46.
Phi Mu Fraternity, Chicago, Ill. Fraternity badges, lapel buttons, cuff links, etc. 268,630; Aug. 28. Class 28.
Phoenix Overgaiter Co. Inc., New York, N. Y. Leggings and overgaiters. 247,568; Aug. 28. Class 39.
Postum Company, Incorporated, New York, N. Y. Gelatin dessert. 266,480; Aug. 28. Class 46.
Presenger, Henry J., doing business as Klo-Ro-San Company, Detroit, Mich. Deodorant compounds. 267,995; Aug. 28. Class 6.
Publix Theatres Corporation, New York, N. Y. Uniforms and caps. 265,164; Aug. 28. Class 39.
Purity Chemical Products Co., Santa Rosa, Calif. Liquid dry cleaner. 261,988; Aug. 28. Class 4.
Purox Company, Denver, Colo. Gas-pressure regulators. 267,799; Aug. 28. Class 13.
Red Spot Paint & Varnish Co., also doing business as Evansville Paint & Varnish Co., Evansville, Ind. Fabric dyes and glass frosting. 267,800; Aug. 28. Class 6.
Redmanol Chemical Products Company, New York, N. Y. Abrasive grinding wheels and abrasive cutting wheels. 260,749; Aug. 28. Class 4.
Reed & Carnrick, Jersey City, N. J. Medicinal products derived from animal sources. 261,589; Aug. 28. Class 6.
Renault, L. N., & Sons, Inc., Egg Harbor City, N. J. General tonic. 259,183; Aug. 28. Class 6.
Richfield Oil Company of California, Los Angeles, Calif. Petroleum products. 267,803–4; Aug. 28. Class 15.
River Products Co., Iowa City, Iowa. Stock feed. 267,510; Aug. 28. Class 46.
Rockford E & W Clothing House, Rockford, Ill. Shirts, overalls, jackets, etc. 267,805; Aug. 28. Class 39.
Rockford Steel Furniture Company, Rockford, Ill. Refrigerators. 268,815–16; Aug. 28. Class 31.
Roger & Gallet, New York, N. Y. After-shaving lotions. 268,889–91; Aug. 28. Class 6.
Ro-Hel-Gen Products Co., Not Inc. (See Hatfield, Rolland F., sr.)
Rollins, Calvin, doing business as The Old Trusty Company, Clay Center, Nebr. Ready-mixed paints and varnishes. 269,002; Aug. 28. Class 16.
Rosen, Samuel S., doing business as Guarantee Exterminating Company, New York, N. Y. Nuisance-preventing liquid spray. 269,917; Aug. 28. Class 6.
Rosenberg, Herman, Philadelphia, Pa. Cereal breakfast food. 256,746; Aug. 28. Class 46.
Ross, Sydney Co., The, Newark, N. J. Toilet preparations. 269,923; Aug. 28. Class 6.
Roura, Octave G., Paris, France. Pomades. 266,403; Aug. 28. Class 6.
S. A. R. M. Società Anonima Ritrovati Medicinali, Rome, Italy. Urociasio, a medicinal preparation for all kinds of uricemics. 256,014; Aug. 28. Class 6.
Safe Wash Bleach Co. (See Carnesecca, Jacop.)
Safeway Stores, Inc., Los Angeles, Calif. Tea, coffee, spices, etc. 267,014; Aug. 28. Class 46.
Salo-Sedatus Chemical Company. (See Trevaskis, William J.)
Schanzenbach, J., & Co., Inc., New York, N. Y. Brilliantine and dressings for the hair. 268,515; Aug. 28. Class 6.
Schaufler, Ernst, Reutlingen, Germany. Hair tonic. 268,705; Aug. 28. Class 6.
Schwabacher Bros. & Co., Inc., Seattle, Wash. Canned fruits, vegetables, and fish. 269,800; Aug. 28. Class 46.
Selby Shoe Co., The, Portsmouth, Ohio. Boots and shoes. 265,299; Aug. 28. Class 39.
Semenoff, Semuel, New York, N. Y. Manufactured jewelry. 268,637; Aug. 28. Class 28.
Sere de Rivieres, Aline, Paris, France. Perfumes, toilet vinegar, hair lotion, etc. 268,130; Aug. 28. Class 6.
Shoecraft Shop Inc., New York, N. Y. Shoe-trees. 265,989; Aug. 28. Class 50.
Simplex Shoe Manufacturing Company, Milwaukee, Wis. Boots and shoes. 264,207; Aug. 28. Class 39.
Sloan's Sporting Goods Co. Inc., New York, N. Y. Shotguns and rifles. 269,327; Aug. 28. Class 9.
Smart Fashion Dress Co. (See Brandt, William S.)
Smith-Alsop Paint and Varnish Company, Inc., The, Terre Haute, Ind. Flat-finish paint. 269,328; Aug. 28. Class 16.
Smith, D. B., & Company, Inc., Utica, N. Y. Sprayers, spray pumps, pumps, etc. 268,639; Aug. 28. Class 23.
Soc. Coop. "Ostendia", Broedene, near Ostende, Belgium. Preserved and canned fish. 268 319; Aug. 28. Class 46.
Societe Anonyme des Fromageries Ch. Gervais, Paris, France. Cheese. 253,712–13; Aug. 28. Class 46.
Société Carbox, La Courneuve, France. Apparatus for delivering measured quantities of liquid. 267,394; Aug. 28. Class 26.
Société Hardoll, Etablissements Hariveau, Dolimier et René Porte & Cie. Réunis, Levallois-Perret, France. Apparatus for delivering measured quantities of liquid. 267,395; Aug. 28. Class 26.
Southern Products Co. (See Mobile Grocery Company.)
Speak-O-Phone Incorporated, New York, N. Y. Metallic disc phonograph records. 268,321; Aug. 28. Class 36.
Spearo Manufacturing Company. (See Oltman, H. Chris.)
Spiel, George F., Chicago, Ill. Top. 267,871; Aug. 28. Class 22.
Squibb, E. R., & Sons, New York, N. Y. Analgeso hypnotic. 268,822; Aug. 28. Class 6.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Nose and throat spray. 266,764; Aug. 28. Class 6.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Insecticides. 269,928; Aug. 28. Class 6.
Standard Steel and Bearings Incorporated, Plainville, Conn. Ball bearings. 262,423; Aug. 28. Class 23.
Stearns, Frederick, & Company, Detroit, Mich. Perfumes. 269,230; Aug. 28. Class 6.
Stein, S., & Co., New York, N. Y. Woolen goods. 269,697; Aug. 28. Class 42.
Stern Brothers, New York, N. Y. Baseballs, baseball gloves, bicycles, etc. 268,565–6; Aug. 28. Class 22.
Stern, Louis, Company, Providence, R. I. Key rings, chain fasteners, etc. 268,165; Aug. 28. Class 28.
Stoy, Henry V., doing business as Ace High Malt Extract Company, Philadelphia, Pa. Malt syrup. 262,189; Aug. 28. Class 46.
Superior Products Company, Dallas, Tex. Face powder and brilliantine. 269,268; Aug. 28. Class 6.
Templeton, Kenly & Co., Limited, Chicago, Ill. Lifting jacks. 268,063; Aug. 28. Class 23.
Tetter, F., & Sons, Newark, N. J. Powder puffs. 268,326; Aug. 28. Class 29.
Thompson Products, Inc., Cleveland, Ohio. Pump shafts and poppet valves. 258,049; Aug. 28. Class 23.
Tiffany & Company, New York, N. Y. Jewelry, precious stones, book marks, etc. 267,097; Aug. 28. Class 28.
Tiffany & Company, New York, N. Y. Electric lamps, candelabra, and candlesticks, etc. 267,152; Aug. 28. Class 21.
Tiffany & Company, New York, N. Y. Playing cards and chips and cribbage boards. 267,153; Aug. 28. Class 22.
Tiffany & Company, New York, N. Y. Writing paper, mailing envelopes, etc. 267,155; Aug. 28. Class 37.
Tiffany & Company, New York, N. Y. Candles. 267,157; Aug. 28. Class 15.
Tiffany & Company, New York, N. Y. Printed books and visiting cards, etc. 267,159; Aug. 28. Class 38.
Tiffany & Company, New York, N. Y. Shoehorns, buttonhooks, hatpins, etc. 267,160; Aug. 28. Class 40.
Tiffany & Company, New York, N. Y. Music boxes. 267,162; Aug. 28. Class 36.
Timm's, Dr., Medicine Co. (See Drake, Norman C.)
Trevaskis, William J., doing business under the name of Salo-Sedatus Chemical Company, Fruitland Park, Fla. Antiseptic, diuretic, etc., preparations. 231,212; Aug. 28. Class 6.
Trico Products Corporation, Buffalo, N. Y. Radioantennæ. 268,328; Aug. 28. Class 21.
Trico Products Corporation, Buffalo, N. Y. Radioantennæ. 268,329; Aug. 28. Class 21.
United Paper Company, East Braintree, Mass. Specially-treated waterproof paper mulch. 266,769; Aug. 28. Class 37.
United Rabbitries Marketing Corp., Duarte, Calif. Rabbits alive, dressed, and for food purposes. 267,815; Aug. 28. Class 46.
United Shirt Distributors. (See Hyman, Harry A.)
United Shoe Machinery Corporation, Boston, Mass. Power brushes. 269,436; Aug. 28. Class 29.
United States Glass Company, Pittsburgh, Pa. Glass tableware. 259,034; Aug. 28. Class 33.
U. S. Hydraulic Development Company, The, Cleveland, Ohio. Hydraulic jacks. 268,894; Aug. 28. Class 23.
Universal Beverage Co., Cleveland, Ohio. Maltless beverages. 268,828; Aug. 28. Class 45.
Upjohn Company, The, Kalamazoo, Mich. Laxative preparation. 257,040; Aug. 28. Class 6.
Vai Bros., doing business as California Medicinal Wine Co., Los Angeles, Calif. Wine. 266,158; Aug. 28. Class 46.
Vanity Fair Silk Mills, Reading, Pa. Underwear for women and men. 268,124; Aug. 28. Class 39.
Veldown Company, Inc., New York, N. Y. Barbers' sanitary paper neckbands. 267,907; Aug. 28. Class 37.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Vierra, Agnes L., Salinas, Calif. Sanitary napkins and rubber protectors. 268,126; Aug. 28. Class 44.
Waite, Ralph B., doing business as The Antidolor Mfg. Co., Springville, N. Y. Medicament. 266,960; Aug. 28. Class 6.
Walker, W. & H., Inc., doing business as Health Laboratories, Pittsburgh, Pa. Medicines. 268,009; Aug. 28. Class 6.
Wallerstein, Charles A., doing business as Master Products Mfg. Co., Brooklyn, N. Y. Preparation for preventing corrosion of metal. 260,925; Aug. 28. Class 6.
Weber Medical Tea Company, The, Brooklyn, N. Y. Laxative preparations. 268,330; Aug. 28. Class 6.
Weber Medical Tea Company, The, Brooklyn, N. Y. Herb teas and laxative preparations. 268,331; Aug. 28. Class 6.
Weill & Hartmann, New York, N. Y. Dresses, coats, hosiery, etc. 264,665; Aug. 28. Class 39.
Weingarten, J., Inc., Houston, Tex. Creamery butter. 269,701; Aug. 28. Class 46.
Weller, J., Company, The, Oak Harbor, Ohio. Tomato catsup and pickles. 269,060; Aug. 28. Class 46.
Wellington Process Company, Inc., Baltimore, Md. Tanning compounds. 268,407; Aug. 28. Class 6.
Wertz, F. S., & Son, Reading, Pa. Feeds. 268,722; Aug. 28. Class 46.
West End Brewing Co., The, Utica, N. Y. Malt beverages. 267,170; Aug. 28. Class 48.
Western Dairy Products Co., Seattle, Wash. Ice cream. 252,298; Aug. 28. Class 46.
Weston Manufacturing & Supply Company, The, Denver, Colo. Device for branding, tattooing, etc. 268,897; Aug. 28. Class 23.
Wiz Manufacturing Co., New York, N. Y. Radio receiving sets and parts thereof. 265,457; Aug. 28. Class 21.
Wonder Ironer Manufacturing Corporation, Cleveland, Ohio. Ironing machines. 269,541; Aug. 28. Class 24.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 3.

Bags, Mesh. Whiting & Davis Company. 246,038; Aug. 28; Serial No. 265,351; published June 5, 1928.
Bits, spurs, stirrups, etc. North & Judd Manufacturing Company. 246,030; Aug. 28; Serial No. 261,137; published Mar. 13, 1928.

CLASS 4.

Creams, dressings, Shoe. Tangalakis Bros. 246,103; Aug. 28.
Polishes, Stove. Black-Iron Stove Polish Company. 246,075; Aug. 28.

CLASS 5.

Glue, Consumers Glue Co. 245,941; Aug. 28; Serial No. 264,148; published June 5, 1928.
Glue, wall size, Consumers Glue Co. 245,942; Aug. 28; Serial No. 264,147; published June 5, 1928.
Mucilage and glues. Henning-Orla Bruhn. 245,890; Aug. 28; Serial No. 259,552; published June 12, 1928.

CLASS 6.

Acetone, acetic acid, citric acid, etc. Schenectady Hygienic Laboratory. 245,990; Aug. 28; Serial No. 252,481; published June 12, 1928.
Antiseptic powder. E. Kowalsky. 246,018; Aug. 28; Serial No. 262,312; published June 12, 1928.
Astringents, astringent cerates, cleansing creams, etc. Bourbon French Perfume Manufacturing Co. 245,926; Aug. 28; Serial No. 259,941; published June 12, 1928.
Butyl propionate, triphenyl phosphate, and aluminum vehicle. Chemical Products Corporation. 246,042; Aug. 28; Serial No. 265,139; published June 12, 1928.
Chemical dye aids. H. Th. Böhme A. G. 245,950–1; Aug. 28; Serial Nos. 250,363–4; published June 5, 1928.
Chemical dye aids. H. Th. Böhme A. G. 245,952–4; Aug. 28; Serial Nos. 250,358–60; published June 5, 1928.
Chemical dye aids. H. Th. Böhme A. G. 245,955–6; Aug. 28; Serial Nos. 250,355–6; published June 5, 1928.
Chemical product. Descollonges Frères. 246,019; Aug. 28; Serial No. 262,217; published June 12, 1928.
Chemical substances used in manufactures. Liverpool Borax Company Limited. 245,962; Aug. 28; Serial No. 246,298; published June 5, 1928.
Cleansing, sterilizing, and purifying fluid. Dehls & Stein. 246,039; Aug. 28; Serial No. 265,321; published June 5, 1928.
Deodorant. McKesson & Robbins, Incorporated. 246,007; Aug. 28; Serial No. 264,452; published June 12, 1928.
Deodorant. McKesson & Robbins, Incorporated. 246,008; Aug. 28; Serial No. 264,450; published June 12, 1928.
Deodorant. McKesson & Robbins, Incorporated. 246,009; Aug. 28; Serial No. 264,448; published June 12, 1928.
Deodorant in crystal form. Hillyard Chemical Company. 245,894; Aug. 28; Serial No. 258,469; published June 5, 1928.
Disinfectants and deodorizers. J. C. Shepard. 246,034; Aug. 28; Serial No. 265,698; published June 12, 1928.
Eyewash. McKesson & Robbins, Incorporated. 245,983; Aug. 28; Serial No. 263,498; published June 12, 1928.
Hairdressing, hair oil, cocoanut shampoo, etc. L. S. Osman. 245,910; Aug. 28; Serial No. 263,967; published June 5, 1928.
Insecticide. Providence Chemical Laboratories. 245,917; Aug. 28; Serial No. 265,449; published June 12, 1928.
Laxative. J. D. Stratton. 246,033; Aug. 28; Serial No. 265,704; published June 12, 1928.
Liniment. F. D. Byrne. 246,054; Aug. 28; Serial No. 263,304; published June 12, 1928.
Lip stick. Helena Rubinstein, Inc. 246,032; Aug. 28; Serial No. 265,725; published June 12, 1928.
Lotion for beautifying and improving the skin. F. T. Hopkins. 246,014; Aug. 28; Serial No. 262,713; published June 5, 1928.
Lotion for the hands and face. H. A. Mullins. 246,044; Aug. 28; Serial No. 263,415; published June 5, 1928.
Lozenges, Throat. Organ-Iron Laboratories. 246,040; Aug. 28; Serial No. 265,232; published June 5, 1928.
Magnesia hydroxide. McKesson & Robbins, Incorporated. 245,988; Aug. 28; Serial No. 263,486; published June 12, 1928.
Magnesium hydroxide. McKesson & Ribbons, Incorporated. 245,979–80; Aug. 28; Serial Nos. 263,501–2; published June 12, 1928.
Medicinal herb tea. R. Green. 246,022; Aug. 28; Serial No. 262,081; published June 12, 1928.
Medicinal preparation for kidney trouble. Resbona Remedies Company. 245,901; Aug. 28; Serial No. 256,420; published June 5, 1928.
Medicinal preparation used as a cathartic, blood purifier, etc. J. T. Fleishans. 246,055; Aug. 28; Serial No. 263,262; published June 5, 1928.
Medicine, mineral oil for medicinal purposes, pile ointment, etc., Blood and rheumatism. W. Georges. 245,923; Aug. 28; Serial No. 260,173; published June 5, 1928.
Moth and moth larvæ killer. Expello Corporation. 245,912; Aug. 28; Serial No. 263,938; published June 12, 1928.
Mouth wash, Liquid. Alfan Products, Inc. 245,904; Aug. 28; Serial No. 256,160; published May 8, 1928.
Ointment. H. Gregory. 246,046; Aug. 28; Serial No. 263,390; published June 12, 1928.
Ointment. McKesson & Robbins, Incorporated. 245,982; Aug. 28; Serial No. 263,499; published June 12, 1928.
Ointment. McKesson & Robbins, Incorporated. 246,012; Aug. 28; Serial No. 262,754; published June 12, 1928.
Ointment. McKesson & Robbins, Incorporated. 246,063; Aug. 28; Serial No. 262,755; published June 12, 1928.
Perfumes. C. S. Acker. 245,914; Aug. 28; Serial No. 263,847; published June 12, 1928.
Perfumes, cold creams, toilet waters, etc. J. Fishman. 246,048; Aug. 28; Serial No. 263,384; published June 5, 1928.
Powder, Foot. D. C. Leo & Company. 245,992; Aug. 28; Serial No. 264,895; published June 12, 1928.
Preparation for filling cigar and cigarette lighters. A. Silbar. 245,989; Aug. 28; Serial No. 263,437; published June 5, 1928.
Preparation for prevention and elimination of rust. A. C. Beck. 246,051; Aug. 28; Serial No. 263,368; published June 5, 1928.
Preparation for the treatment of kidney, bladder, and urine affections. Heyl & Co. Chemisch-Pharmazeutische Fabrik Aktiengesellschaft. 245,900; Aug. 28; Serial No. 256,625; published June 5, 1928.
Rubber softener. E. Maurer. 246,052; Aug. 28; Serial No. 263,328; published June 5, 1928.
Salves for the skin and body for relieving pain, etc. Kip Corporation. 246,059; Aug. 28; Serial No. 263,159; published June 5, 1928.
Shampoo. McKesson & Robbins, Incorporated. 245,984; Aug. 28; Serial No. 263,497; published June 12, 1928.
Shampoo. McKesson & Robbins, Incorporated. 245,987; Aug. 28; Serial No. 263,490; published June 12, 1928.
Shampoo. McKesson & Robbins, Incorporated. 246,013; Aug. 28; Serial No. 262,750; published June 12, 1928.
Spray and gargle, Throat. McKesson & Robbins, Incorporated. 246,010; Aug. 28; Serial No. 264,446; published June 12, 1928.
Sprays, Nose and throat. McKesson & Robbins, Incorporated. 245,930–2; Aug. 28; Serial Nos. 264,442–4; published June 12, 1928.
Sprays, Nose and throat. McKesson & Robbins, Incorporated. 245,934–5; Aug. 28; Serial Nos. 264,435–6; published June 12, 1928.
Toilet articles, preparations, and products. Benjamin Leland & Co. 246,023; Aug. 28; Serial No. 262,049; published June 5, 1928.

Tonic. California Commercial Company. 246,029; Aug. 28; Serial No. 261,348; published May 1, 1928.
Tonic and medicinal preparation, Blood. E. P. Read. 245,965; Aug. 28; Serial No. 239,061; published Dec. 27, 1927.
Tonics and laxatives, Alternative general. McKesson & Robbins, Incorporated. 245,981; Aug. 28; Serial No. 263,500; published June 12, 1928.
Tonics and laxatives, Alternative general. McKesson & Robbins, Incorporated. 245,985–6; Aug. 28; Serial Nos. 263,494–5; published June 12, 1928.
Tooth paste. McKesson & Robbins, Incorporated. 245,911; Aug. 28; Serial No. 263,962; published June 12, 1928.
Tooth paste. McKesson & Robbins, Incorporated. 245,933; Aug. 28; Serial No. 264,439; published June 12, 1928.
Tooth paste. McKesson & Robbins, Incorporated. 246,011; Aug. 28; Serial No. 264,445; published June 12, 1928.
Welding flux, brazing compound, etc., Cast-iron. L. W. Holley. 246,016; Aug. 28; Serial No. 262,565; published June 5, 1928.

CLASS 8.

Ash trays. Frankart, Inc. 246,035; Aug. 28; Serial No. 265,582; published June 5, 1928.

CLASS 12.

Pipes, post, and poles, Concrete. American Hume Concrete Pipe Co. 246,102; Aug. 28.
Plaster, Cement base-coat, etc. E. D. Coddington Manufacturing Company. 246,098; Aug. 28.
Tile, building and wall blocks, etc. Mortarless Tile Machine Co. Inc. 246,076; Aug. 28.

CLASS 13.

Bolts and nuts, Boiler stay, etc. Flannery Bolt Company. 246,100; Aug. 28.
Hinges. McKinney Manufacturing Company. 246,071; Aug. 28.
Utensils in aluminum ware, Cooking. H. C. Dowds. 246,092; Aug. 28.

CLASS 14.

Alloy, Iron-aluminum. Metal Alloys, Inc. 245,997; Aug. 28; Serial No. 264,693; published June 12, 1928.
Alloys, Vanadium Corporation of America. 246,056; Aug. 28; Serial No. 263,240; published June 5, 1928.
Alloys, Ferromagnetic. Western Electric Company. 245,899; Aug. 28; Serial No. 257,260; published June 12, 1928.
Iron and steel. Farrel-Birmingham Company. 246,001; Aug. 28; Serial No. 264,573; published June 12, 1928.
Metal, Sheet. Pantone Processes Limited. 246,005; Aug. 28; Serial No. 264,475; published June 5, 1928.
Metal, Sheet. Pantone Processes Limited. 246,006; Aug. 28; Serial No. 264,473; published June 5, 1928.
Reflectors. Venus Manufacturing Company. 245,958; Aug. 28; Serial No. 247,918; published June 5, 1928.
Solder, Wire. Federated Metals Corporation. 246,028; Aug. 28; Serial No. 261,358; published June 5, 1928.
Solders, hard solders, and aluminum solders, Soft. Simplex Flux & Solder Company of America. 245,925; Aug. 28; Serial No. 260,145; published June 5, 1928.
Steels. Cyclops Steel Company. 246,002; Aug. 28; Serial No. 264,566; published June 12, 1928.

CLASS 16.

Lacquer, Brushing. Mautz Paint and Glass Company. 245,898; Aug. 28; Serial No. 257,428; published Feb. 21, 1928.
Oil wall finish and painter's sizing, Interior warm-water or. Craftex Company. 246,017; Aug. 28; Serial No. 262,510; published June 5, 1928.
Paint or plastic paint, etc., Water. Craftex Company. 246,053; Aug. 28; Serial No. 263,309; published June 12, 1928.
Paint, Plastic. Finishing Specialties & Service Co. 246,015; Aug. 28; Serial No. 262,602; published June 5, 1928.
Paint, stain, automobile enamel, cement coating, paint and varnish remover, etc. Stockton Paint Company. 245,969; Aug. 28; Serial No. 221,461; published Dec. 8, 1925.
Paints, Ready-mixed. N. Slipyan. 246,020; Aug. 28; Serial No. 262,140; published June 5, 1928.
Paints, varnishes or lacquers. Michael McNamara Varnish Works. 245,908; Aug. 28; Serial No. 254,926; published Feb. 7, 1928.
Powdery material, Dry. R. M. Weeks. 245,893; Aug. 28; Serial No. 258,779; published June 5, 1928.
Sizing, Painters' wall. Craftex Company. 246,050; Aug. 28; Serial No. 263,377; published June 12, 1928.
Varnish. Burnett Chemical Company. 245,946; Aug. 28; Serial No. 264,078; published June 5, 1928.

CLASS 17.

Cigars. Choice Cigar Company. 246,031; Aug. 28; Serial No. 264,970; published June 5, 1928.
Cigars. Fretwell Bros. 246,083; Aug. 28.

CLASS 21.

Electric connectors, outlet boxes and parts thereof, wall brackets, etc. Henry D'Oller, jr. 245,949; Aug. 28; Serial No. 264,025; published June 5, 1928.
Pumps and automatic electric water systems, Electric. Duro Company. 246,069; Aug. 28.
Radio reception elements. Twin Coupler Company. 246,073; Aug. 28.
Radio reproducing devices. Boudette Manufacturing Co. 246,080; Aug. 28.
Signs and letters for signs, Electrical luminescent. Lu-Mi-Nus Signs, Inc. 246,068; Aug. 28.

CLASS 22.

Balls, Large leather. Elmer D. Mitchell & George J. Moe. 245,907; Aug. 28; Serial No. 255,858; published June 5, 1928.
Footballs (Association and Rugby) and football covers. William Thomlinson Limited. 245,947–8; Aug. 28; Serial Nos. 264,063–4; published June 5, 1928.
Salmon eggs for trout bait. P. Sellen. 245,938; Aug. 28; Serial No. 264,261; published June 5, 1928.
Toy automobiles. Geo. Borgfeldt & Co. 245,936; Aug. 28; Serial No. 264,417; published June 12, 1928.
Toy hand cars, kiddie cars, scooters, and play cars. William E. Stewart Mfg. Co. 246,062; Aug. 28; Serial No. 262,974; published June 5, 1928.
Toys, Chest of assorted. Dent Hardware Company. 245,973; Aug. 28; Serial No. 263,644; published June 5, 1928.

CLASS 23.

Drilling and operating appliances, Well. Smith Separator Company. 246,095; Aug. 28.
Joints, couplings, etc., Universal. Spicer Manufacturing Corporation. 246,082; Aug. 28.
Mills, chilled-iron rolls, asbestos mixers, etc., Rolling. Farrel-Birmingham Company. 245,978; Aug. 28; Serial No. 263,542; published June 5, 1928.

CLASS 25.

Latches, Door. McKinney Manufacturing Company. 246,072; Aug. 28.

CLASS 26.

Fingerprinting apparatus, Fingerprints, Inc. 246,049; Aug. 28; Serial No. 263,383; published May 29, 1928.

CLASS 32.

Trays, Bed and reading. F. I. Stober. 246,090; Aug. 28.

CLASS 33.

Glass, Plate. Karl Hansen Company. 246,065; Aug. 28.

CLASS 36.

Organs, pianos, etc. Rudolph Wurlitzer Mfg. Company. 246,074; Aug. 28.

CLASS 39.

Apparel of knitted and textile fabric, Wearing. N. E. Berriman. 246,085; Aug. 28.
Boots, shoes, and pumps. Wildfeuer Bros. 246,093; Aug. 28.
Boots, shoes, etc., Rubber. Cambridge Rubber Company. 246,089; Aug. 28.
Clothing, Men's and boys'. Pendleton Woolen Mills. 246,087; Aug. 28.
Hosiery. S. S. Glickman. 246,101; Aug. 28.
Shirts, Dress and negligee. I. Janov-Abeles Shirt Co. 246,084; Aug. 28.
Shoes. B. Altman & Co. 246,096; Aug. 28.
Shoes, Leather. J. T. Murdoch. 246,097; Aug. 28.

CLASS 40.

Bindings, Fast-edge. J. Marcus. 245,921; Aug. 28; Serial No. 260,513; published May 8, 1928.
Braid for use in men's hats, Straw. R. H. Comey Companies Consolidated. 245,995; Aug. 28; Serial No. 264,809; published June 5, 1928.
Braids, Dyed and bleached. R. H. Comey Companies Consolidated. 245,919; Aug. 28; Serial No. 260,717; published May 8, 1928.
Clasps. Waldes Koh-I-Noor, Inc. 245,927; Aug. 28; Serial No. 259,890; published May 22, 1928.
Combs of rubber, celluloid, and horn, Toilet. E. Morris Mfg. Co. 245,920; Aug. 28; Serial No. 260,693; published Apr. 17, 1928.
Cotton fabric stamped with embroidery patterns, etc. H. E. Verran Company Incorporated. 245,924; Aug. 28; Serial No. 260,150; published May 29, 1928.
Darners. J. S. Oder. 245,939; Aug. 28; Serial No. 264,186; published May 22, 1928.
Fasteners, Snap. Columbia Fastener Company. 246,066; Aug. 28.
Hairpins. Heath & Hagemann, Inc. 246,045; Aug. 28; Serial No. 263,396; published May 8, 1928.
Hairpins. Hump Hairpin Mfg. Co. 246,021; Aug. 28; Serial No. 262,086; published May 8, 1928.
Hatbands and fasteners. Roberts, Cushman & Company. 246,070; Aug. 28.
Labels of cotton and silk, Woven. J. & J. Cash, Inc. 246,025; Aug. 28; Serial No. 261,861; published Apr. 17, 1928.

Lacings, corset lacings, etc., Shoe. International Braid Company. 246,060; Aug. 28; Serial No. 263,088; published May 8, 1928.
Materials stamped for embroidery. A. Rosenblum. 245,991; Aug. 28; Serial No. 251,015; published May 29, 1928.
Needles for mending hosiery by hand. H. I. Rosenblatt. 246,004; Aug. 28; Serial No. 264,481; published June 12, 1928.
Pins, Common. Scovill Manufacturing Company. 245,961; Aug. 28; Serial No. 246,366; published May 8, 1928.
Pins, Safety. J. C. Penney Company. 245,922; Aug. 28; Serial No. 260,236; published Apr. 3, 1928.
Shields, Dress. I. B. Kleinert Rubber Company. 245,994; Aug. 28; Serial No. 264,824; published May 29, 1928.
Shields, Dress. I. B. Kleinert Rubber Company. 246,061; Aug. 28; Serial No. 263,044; published May 8, 1928.
Shields, Dress. New York Shield Company. 245,993; Aug. 28; Serial No. 264,835; published May 29, 1928.
Shields, Women's dress. S. Kann Sons Company. 245,945; Aug. 28; Serial No. 264,110; published June 12, 1928.
Tape, camisole tape, collar bands, etc., Bias. J. C. Penney Company. 246,024; Aug. 28; Serial No. 261,922; published June 5, 1928.
Tape, collar bands, dress shields, etc., Bias. J. C. Penney Company. 245,918; Aug. 28; Serial No. 260,846; published May 29, 1928.
Toilet sets, etc. E. M. Hermès. 245,966; Aug. 28; Serial No. 232,270; published Apr. 10, 1928.

CLASS 42.

Bedspreads formed partly or wholly of silk, etc. Kenneth Cotton Mills. 245,976; Aug. 28; Serial No. 263,551; published June 5, 1928.
Cotton pillowcases and sheets. Ware Shoals Manufacturing Company. 245,891; Aug. 28; Serial No. 259,311; published June 12, 1928.
Cotton textile fabrics. Brownstein-Louis Company. 246,086; Aug. 28.
Woolen piece goods. Forstmann & Huffmann Company. 246,091; Aug. 28.

CLASS 44.

Ear phones. American Phonophor Corporation. 245,905–6; Aug. 28; Serial Nos. 256,067–8; published June 5, 1928.
Pads, Adjustable head. Friedlaender Company. 246,047; Aug. 28; Serial No. 263,386; published June 5, 1928.
Toothpicks. Service Grocer Company. 245,937; Aug. 28; Serial No. 264,389; published June 12, 1928.

CLASS 45.

Beverage, sirup, extract, and concentrate for making the same. L. Fine. 246,081; Aug. 28.
Beverages sold as soft drinks. Miami Coco Cola Bottling Co. 245,967; Aug. 28; Serial No. 225,725; published Oct. 5, 1926.
Beverages, syrups, etc. Mulvihill-Goodwine Company. 246,079; Aug. 28.

CLASS 46.

Biscuits. Standard Biscuit Company. 245,960; Aug. 28; Serial No. 247,294; published June 5, 1928.
Bread and cake. Hathaway Baking Company. 245,957; Aug. 28; Serial No. 248,409; published June 5, 1928.
Bread, rolls, cakes, and pastries. J. Mees. 245,929; Aug. 28; Serial No. 259,635; published June 12, 1928.
Butter. Columbus Packing Company. 246,037; Aug. 28; Serial No. 265,366; published June 5, 1928.
Cakes and pastry. A. Kesselring. 245,944 Aug. 28; Serial No. 264,111; published June 5, 1928.
Candy and pastry. E. J. M. Colby Co. 245,971; Aug. 28; Serial No. 263,691; published June 5, 1928.
Candy, bonbons, chocolate candy, fudge, etc. E. Beye. 245,896; Aug. 28; Serial No. 257,465; published June 12, 1928.
Canned berries, dried apples, brown bread, catsup, etc. John H. Lock Co. Inc. 245,964; Aug. 28; Serial No. 242,901; published May 1, 1928.
Canned goods. Grand Traverse Packing Company. 246,078; Aug. 28.
Canned peas, corn, beets, etc. Aunt Nellie's Farm Kitchen, Inc. 245,916; Aug. 28; Serial No. 263,721; published June 5, 1928.
Canned peas, corn, stringless beans, etc. Murphysboro Grocery Company. 245,928; Aug. 28; Serial No. 259,746; published June 5, 1928.
Canned pineapple, fruits for salad, corn, etc. M. Sushelsky. 245,909; Aug. 28; Serial No. 254,731; published May 29, 1928.
Cocoa, sweet relish, catsup, jelly, etc., Breakfast. Francis H. Liggett & Company. 246,000; Aug. 28; Serial No. 264,589; published June 5, 1928.
Condiments. Standard Imports Limited. 245,959; Aug. 28; Serial No. 247,872; published May 29, 1928.
Cookies. E. A. Woodside. 245,895; Aug. 28; Serial No. 257,845; published June 5, 1928.
Crackers, salty flakes, butter, and Graham crackers, Soda. Kroger Grocery & Baking Co. 245,940; Aug. 28; Serial No. 264,170; published June 5, 1928.
Cucumber pickles, Bottled. Gladbrook Packing Co. 246,099; Aug. 28.
Eggs. Lyman Poultry Association. 245,998; Aug. 28; Serial No. 264,648; published June 5, 1928.
Extract, Malt. H. Rubin. 245,999; Aug. 28; Serial No. 264,611; published June 12, 1928.
Feed for stock, Mixing. Alfocorn Milling Company. 245,943; Aug. 28; Serial No. 264,132; published June 12, 1928.
Flour, Pie-crust and waffle. Modern Maid Foods, Inc. 245,970; Aug. 28; Serial No. 263,718; published June 5, 1928.
Flour, Wheat. Duluth-Superior Milling Company. 246,058; Aug. 28; Serial No. 263,201; published June 5, 1928.
Flour, Wheat. Robinson Milling Co. 245,996; Aug. 28; Serial No. 264,697; published June 12, 1928.
Ice cream and ice-cream confections. C. K. Nelson. 246,057; Aug. 28; Serial No. 263,224; published June 5, 1928.
Ice cream, preserved fruits, etc. A. B. Hayes. 246,036; Aug. 28; Serial No. 265,433; published June 12, 1928.
Kefir and ferments for preparing the same. M. Bayod. 245,892; Aug. 28; Serial No. 259,193; published June 5, 1928.
Macaroni. De Martini Macaroni Co. Inc. 246,041; Aug. 28; Serial No. 265,147; published June 12, 1928.
Mayonnaise. S. Gelfand. 245,902; Aug. 28; Serial No. 256,338; published June 5, 1928.
Mayonnaise. Gelfand Manufacturing Company. 246,026; Aug. 28; Serial No. 261,435; published June 5, 1928.
Meal, Linseed. Linseed Meal Educational Committee. 246,027; Aug. 28; Serial No. 261,369; published June 12, 1928.
Milk, Evaporated. G. Tiefenthaler. 246,043; Aug. 28; Serial No. 265,126; published June 12, 1928.
Milk. Orange Dairy Co. 245,974; Aug. 28; Serial No. 263,616; published June 12, 1928.
Olive oil. R. W. Gerard. 245,975; Aug. 28; Serial No. 263,602; published June 12, 1928.
Olives. Van Dyk & Reeves, Inc. 245,972; Aug. 28; Serial No. 263,674; published June 12, 1928.
Pies. Grennan Bros. Pie Co. 245,977; Aug. 28; Serial No. 263,547; published June 5, 1928.
Potatoes julienne, shoe-string potatoes, and potato chips. L. J. Marsh. 246,088; Aug. 28.
Poultry, eggs, cream, butter, etc. Miller Bros. Co. 245,915; Aug. 28; Serial No. 263,829; published June 12, 1928.
Relishes. L. B. Farwell. 245,913; Aug. 28; Serial No. 263,867; published June 12, 1928.
Sirup, Malt. E. J. Romano. 246,064; Aug. 28; Serial No. 222,763; published July 13, 1926.
Syrup, Concentrated. Carnation Milk Products Company. 245,903; Aug. 28; Serial No. 256,330; published Mar. 6, 1928.
Syrup, Malt. Philadelphia Malt Warehousing Corporation. 245,963; Aug. 28; Serial No. 245,807; published June 12, 1928.
Syrup, Malt. C. Stetina. 246,003; Aug. 28; Serial No. 264,484; published May 29, 1928.
Syrup, Malt. Stroh Products Company. 245,897; Aug. 28; Serial No. 257,453; published May 29, 1928.
Syrups, Malt. S. Kasser. 246,094; Aug. 28.
Syrups, Malt Newman & Scales. 246,077; Aug. 28.

CLASS 50.

Stepladders. J. R. Clark Company. 246,067; Aug. 28.

ALPHABETICAL LIST OF LABELS.

Absorbine Jr. For Antiseptic Liniment. W. F. Young, Inc. 34,512; Aug. 28.
Acrobatic Clowns. For Sets of Rubber Type Characters. Superior Type Company. 34,505; Aug. 28.
Alaska Dry. For Ginger Ale. W. B. Crane & Company. 34,472; Aug. 28.
Bohemian Pride. For Malt Syrup. Bohemian Distributing Co. Inc. 34,469; Aug. 28.
Chase & Sanborn's Tea House. For Tea. Chase & Sanborn 34,470; Aug. 28.
Cubbison's. For Toast. H. G. Cubbison. 34,473; Aug. 28
Desert Gold Unsulphured. For Prunes. E. Rietzke. 34,500; Aug. 28.
Desert King. For Fresh Grapefruit. Imperial Valley Citrus Exchange. 34,485; Aug. 28.
Dish Protector No. 2. For Water-Faucet Attachments. Seed Filter & Manufacturing Co., Inc. 34,503; Aug. 28.
Dish Protector No. 3. For Hot and Cold Water Faucet Attachments. Seed Filter & Manufacturing Co. 34,504; Aug. 28.
Dr. Whites Horehound Cough Balsam. For Medicine for the Relief of Coughs, Colds, Hoarseness, Sore Throat, Croup, Whooping Cough. First National Laboratories, Inc. 34,478-9; Aug. 28.
Downyflake Coffee—The Flavor of Hospitality. For Coffee. Doughnut Machine Corporation. 34,475; Aug. 28.

Ethylene. For Compressed Gas by Being Affixed to the Tanks or Containers in Which it is Distributed. Ohio Chemical & Manufacturing Company. 34,494; Aug. 28.
Eveready Layerbilt B Battery. For Electric Batteries. National Carbon Company. 34,491; Aug. 28.
Full Back. For Lettuce. N. Nojiri. 34,492; Aug. 28.
Granger Farms Mineralized Candy. For Candy. H. G. Granger. 34,480; Aug. 28.
Hop-To-It. For Malt Syrup. High-Test Malt Extract Co. 34,483; Aug. 28.
Imp. For Lemons. Chula Vista Citrus Association. 34,471; Aug. 28.
Italia. For Dressing. E. Longino. 34,488; Aug. 28.
It's Good for a Whole Family—It's Good For Any Meal. For Cereal Product. Hop Grain Products Incorporated. 34,481; Aug. 28.
Jack and Jill. For Gelatine Dessert. G. C. Wilson. 34,510; Aug. 28.
Jomalt. For Malt Syrup. Joannes Brothers Company. 34,486; Aug. 28.
Kauffmann's Lunch Service. For Lunches. L. F. Kauffmann. 34,487; Aug. 28.
Lacoochee. For Automobile Top Dressing. H. B. Pruden. 34,497; Aug. 28.
Macallan. For Hosiery. Roseknit Hosiery Company. 34,501; Aug. 28.
Mammoth Circus. For Sets of Rubber Type Characters. Superior Type Company. 34,506; Aug. 28.
Midget Circus. For Sets of Rubber Type Characters. Superior Type Company. 34,507; Aug. 28.
Naturelle Furs of the Loom. For Pile Fabrics in the Piece. Sidney Blumenthal & Co. Inc. 34,468; Aug. 28.
Nitrous-Oxid. For Compressed Gas by Being Affixed to the Tanks or Containers in Which it is Distributed. Ohio Chemical & Manufacturing Company. 34,493; Aug. 28.
Pendennis (Individual Package). For Pure Egg Noodles. A. Engelhard & Sons Co. 34,477; Aug. 28.
Pexel Makes Jelly Jell. For Unflavored Prepared Fruit Pectin for Making Jelly from Fruit Juices. Pexel Co. 34,495; Aug. 28.
Pipe-Flo Drain Pipe Opener. For Chemicals for Opening and Cleansing Drains. Visco Chemical Products Company. 34,509; Aug. 28.
Pullman Loaf. For Bread. Pollock Paper & Box Company. 34,496; Aug. 28.
Quality Shoes. For Footwear. Hoague-Sprague Corporation. 34,484; Aug. 28.
Randall's Ready-To-Serve Chicken. For Canned Chicken. H. M. Randall. 34,498; Aug. 28.
Reid Gold Butter Pretzels. For Pretzels. American Cone & Pretzel Company. 34,467; Aug. 28.
Sackett De-Nicotined Junior Cigars. For Tobacco Products for Smoking. H. Sackett. 34,502; Aug. 28.
Salsa Di Pomidoro. For Canned Tomato Sauce. Hershel California Fruit Products Co. 34,482; Aug. 28.
Sizzle, Silver Cleaner. For Sheets of Metallic Foil Employed in Removing Tarnish from Metallic Surfaces. Wyell Laboratories. 34,511; Aug. 28.
Swaggerbonds. For Hats. Delray Hat, Inc. 34,474; Aug. 28.
Sweet and Pure. For Flour. Rea-Patterson Milling Company. 34,499; Aug. 28.
Trained Animals. For Sets of Rubber Type Characters. Superior Type Company. 34,508; Aug. 28.
U-Me-Lax. For Laxative. N. Enge. 34,476; Aug. 28.
We—Spirit of Healdsburg. For Fresh Apples. J. F. Miller & Sons. 34,489; Aug. 28.
Wolverene. For Malt Syrup. J. W. Miller. 34,490; Aug. 28.

ALPHABETICAL LIST OF PRINTS.

Collingbourne's 4 Cord Twine. For Parcel-Post Twine. Collingbourne Mills, Inc. 11,184; Aug. 28.
Cut-Out Coffee Cup & Saucer Design. For Coffee or Tea. W. L. Maddox. 11,188; Aug. 28.
Meletio. For Fish and Other Sea Food. Meletio Sea Food Company. 11,189; Aug. 28.
Three Kings Cigarettes—Your Tongue Tells the Truth. For Cigarettes. Union Tobacco Company. 11,191; Aug. 28.
Under the Chassis Repairs. For the Blue-Print Line of Bolts and Bushings. Fostoria Screw Co. 11,187; Aug. 28.
Wood—Buy it we Supply it. For Wood Products. Tionesta Lumber Company. 11,190; Aug. 28.
Z. B. T. Fine for Baby's Body—Fine for Every Body. For Talcum Powders for Nursery and Toilet Use. Crystal Chemical Company. 11,186; Aug. 28.
Z. B. T. His Majesty's Choice. For Talcum Powders for Nursery and Toilet Use. Crystal Chemical Company. 11,185; Aug. 28.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 28TH DAY OF AUGUST, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Acme Shear Company, The. (See Conway, John J., assignor.)
Addressograph Company. (See Hubbard, Henry E., assignor.)
Addressograph Company. (See Schaefer, George W., assignor.)
Affel, Herman A. (See Blackwell, O. B., and Affel.)
Ahlquist, Eugene F., Minneapolis, Minn. Envelope. 1,682,458; Aug. 28.
Ainsworth Manufacturing Company. (See Potter, Albert T., assignor.)
Ajax Electrothermic Corporation. (See Northrup, Edwin F., assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Kübler, Johannes, assignor.)
Aktiengesellschaft Brown, Boveri and Cie. (See Schiesser, Max, assignor.)
Albertson & Company. (See Albertson, Frans O., assignor.)
Albertson, Frans O., assignor to Albertson & Company, Inc., Sioux City, Iowa. Reamer-grinding machine. 1,682,459; Aug. 28.
Alder, William A., Kennington, London, England, assignor, by mesne assignments, to International Skywriters Limited, Toronto, Canada. Optical sign projector. 1,682,163; Aug. 28.
Alderson, Frederick J., Kingston, Ontario, Canada. Electric toaster. 1,682,653; Aug. 28.
Aldrich, Alonzo, Beloit, Wis. Mechanism for uniformly interweaving fibers. 1,682,460; Aug. 28.
Aldrich, Carl G., Somerville, Mass., assignor to Continental Optical Corporation, New York, N. Y. Eyeglass case. 1,682,719; Aug. 28.
Allen, George Y., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company. Frequency regulator. 1,682,461; Aug. 28.
Allen, Henry W., Seattle, Wash. Hot-air generator. 1,682,102; Aug. 28.
Allen, Robert C., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine support. 1,682,317; Aug. 28.
Allis-Chalmers Manufacturing Company. (See Sprado, Carl G., assignor.)
Aluminum Company of America. (See Horsfield, Basil T., assignor.)
Alvarado, Fernando A., New York, N. Y., assignor to Durham Duplex Razor Company. Safety razor. 1,682,462; Aug. 28.
American Can Company. (See Pickerell, James, assignor.)
American Can Company. (See Reid, George C., assignor.)
American Laundry Machinery Company, The. (See Bercaw, John W., assignor.)
American Laundry Machinery Company, The. (See Carroll, Emil J., assignor.)
American Laundry Machinery Company, The. (See Couch, Forrest J., assignor.)
American Machine & Foundry Company. (See Arelt, C., and Jackson, assignors.)
American Machine & Foundry Company. (See Nejedly, Peter M., assignor.)
American Metal Furniture Co. (See Miner, Joseph A., assignor.)
American Multigraph Company, The. (See Osborn, Henry C., assignor.)
American Piano Company. (See Stoddard, Charles F., assignor.)
American Safety Device Company. (See Johnston, Frank B., assignor.)
American Safety Equipment Corporation. (See Olson, Carl W., assignor.)
American Steel Foundries. (See Lamont, John A., assignor.)
American Telephone and Telegraph Company. (See Blackwell, O. B., and Affel, assignors.)
American Window Company. (See Lewis, Claude A., assignor.)
Amies, Joseph H., Philadelphia, Pa. Semiliquid bituminous composition. 1,682,589; Aug. 28.
Anderson, Arthur R., North Alington, N. J. Shoe tree. 1,681,968; Aug. 28.
Anderson, Charles R., Sidney, Ohio. Combination display and shipment box. 1,682,463; Aug. 28.
Anderson, John A., Sherman, Calif. Garage-door-control apparatus. 1,682,103; Aug. 28.
Anderson, William C., Hartford, Conn. Screen-holding clip. 1,681,925; Aug. 28.
Andrews, Arthur G., Rockford, Ill., assignor to The Washburn Company, Worcester, Mass. Dish drier. 1,682,654; Aug. 28.
Andros, Charles H., Albany, N. Y. Package. 1,682,104; Aug. 28.
Angerer, Victor, Ridley Park, Pa., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Hydraulic center-shifting mechanism. 1,681,969; Aug. 28.
Anjow, Koji, Tokyo Fu, assignor to Mitsubishi Kogyo Kabushiki Kaisha, Tokyo, Japan. Making metallic tungsten. 1,682,058; Aug. 28.
Antoni, Ugo, Viareggio, Italy. Body structure for aerial and land vehicles and marine craft. 1,682,262; Aug. 28.
Arelt, Charles, and John Jackson, Brooklyn, N. Y., assignors to American Machine & Foundry Company. Package inspection. 1,682,464; Aug. 28.
Aridor Company, The. (See Moyer, Paul S., assignor.)
Aridor Company, The. (See Peck, R. G., and Brown, assignors.)
Armour, John S., assignor to The Campbell Hausfeld Company, Harrison, Ohio. Oil strainer. 1,682,655; Aug. 28.
Arnold, Edward W., North Abington, Mass. Welting. 1,682,465; Aug. 28.
Atlantic Refining Company, The. (See Delbridge, T. G., and Hill, assignors.)
Atlantic Refining Company, The. (See Hill, Joseph B., assignor.)
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator fitting. 1,682,105; Aug. 28.
Austin, Arthur O., Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator pin and manufacturing the same. 1,682,590; Aug. 28.
Austin, Bascum O., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,682,466; Aug. 28.
Austin, Elias N., New York, N. Y., assignor to S. P. U. Corporation, New York, N. Y. Milk dispensing and measing device. 1,682,363; Aug. 28.
Austin, Gideon R. (See Brown, Frederick W., assignor.)
Austral Window Company. (See Ellison, Edward H., assignor.)
Automatic Electric Inc. (See Ostline, John E., assignor.)
Automatic Electric Inc. (See Wicks, John, assignor.)
Automatic Electric Inc. (See Willis, Bernard D., assignor.)
Autopoint Company. (See Dell, Frank C., assignor.)
Babbitt, Isaac N., Fairhaven, Mass. Humidifier for tobacco containers. 1,682,591; Aug. 28.
Baccellieri, Raffaele, Philadelphia, Pa. Fruit crusher. 1,681,920; Aug. 28.
Backer, Christian B., Brooklyn, N. Y. Electric iron. 1,682,467; Aug. 28.
Backus, John C., Smethport, Pa. Golf practicing machine. 1,682,059; Aug. 28.
Baker, Milo A., Los Angeles, Calif. Elevator. 1,682,209; Aug. 28.
Ballantine, Stuart, and R. W. Seabury, Boonton, N. J., assignors to Radio Frequency Laboratories, Inc., Boonton, N. J. Magnetic core material. 1,682,364; Aug. 28.
Bangert, Charles A., Ocala, Fla. Air-conditioning apparatus. 1,682,546; Aug. 28.
Banks, Robert W., Eldorado, Ark. Adjustable bookholder. 1,682,060; Aug. 28.
Banks, Robert W., Eldorado, Ark. Garment-hanger attachment. 1,682,106; Aug. 28.
Barker, Justin N. and M. N., Santa Monica, Calif. Toilet-seat accessory. 1,682,592; Aug. 28.
Barker, Majorie N. (See Barker, J. N., and M. N.)
Barlow, Harry, Port Madison, assignor to Barlow Marine Elevator Co., Inc., Seattle, Wash. Marine elevator. 1,682,208; Aug. 28.
Barlow Marine Elevator Co. Inc. (See Barlow, Harry, assignor.)
Barnes, Thomas J., Azusa, Calif. Pulverizer-disk construction. 1,682,468; Aug. 28.
Barrett Company, The. (See Miller, Stuart P., assignor.)
Barrett, Walter A., Fort Wayne, Ind. Liquid heater. 1,682,029; Aug. 28.
Bassett, Fred H., Los Angeles, Calif. Fountain soap brush. 1,682,470; Aug. 28.
Bates, Adelmer M., and G. P. Dorr, assignors, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill. Process and apparatus for folding valves in bags. 1,682,107; Aug. 28.
Bates Valve Bag Corporation. (See Bates, A. M., and Dorr, assignors.)
Bates Valve Bag Corporation. (See Hartman, Carl H. and L. H., assignors.)
Bauer Brothers Company, The. (See Iglehart, Richard S., assignor.)

Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 76,175; Aug. 28.

Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 76,176; Aug. 28.

Bauer, Gustav, Hamburg, Germany. Reversing device for working shafts. 1,682,593; Aug. 28.

Baumberger, William J. (See Yerk, H. H., and Baumberger.)

Baumberger, William J., Davenport, assignor to Micro Machine Company, Bettendorf, Iowa. Work support. 1,682,471; Aug. 28.

Baumberger, William J., and H. H. Yerk, Davenport, assignors to Micro Machine Company, Bettendorf, Iowa. Work-adjusting means. 1,682,472; Aug. 28.

Bausch and Lomb Optical Company. (See Welsh, James W., assignor.)

Beardslee, Francis C., assignor to said Beardslee, B. M. Huffine and J. I. Huffine, joint trustees, Los Angeles, Calif. Treatment of food material. 1,682,318; Aug. 28.

Bell, Andrew, Youngstown, Ohio. Bricklayer's tool. 1,682,061; Aug. 28.

Bell & Howell Company, The. (See Howell, Albert S., assignor.)

Bell, John E., Brooklyn; assignor to Foster Wheeler Corporation, New York, N. Y. Heat transfer. 1,681,926; Aug. 28.

Belrose, Albert J., assignor to The Kiel Furniture Co., Milwaukee, Wis. Table-leaf-aligning device. 1,682,210; Aug. 28.

Bendix Brake Company. (See Sanford, Bert J., assignor.)

Benjamin, Frederick J., Wilmette, Ill. Carton. 1,682,594; Aug. 28.

Benner, William, Bridgeport, Conn. Egg stand. Des. 76,177; Aug. 28.

Berenw, John W., Hamilton, assignor to The American Laundry Machinery Company, Norwood, Ohio. Centrifugal machine. 1,682,473; Aug. 28.

Berg, Joseph, Long Island City, N. Y. Container and manufacture. 1,682,030; Aug. 28.

Bergman, Arthur, Brooklyn, assignor to Trusogram Corporation, New York, N. Y. Decorative embroidery. 1,682,474; Aug. 28.

Bergman, Johan O., assignor to Rockford Novelty Furniture Company, Rockford, Ill. Loud-speaker horn. 1,682,656; Aug. 28.

Berry, William G., J. Klein, and C. Schmidt, Cleveland, Ohio. Combination light. 1,682,164; Aug. 28.

Bertrand, Alexandre. (See Gulliet, A. V. J., and Bertrand.)

Bertrand, Frederic E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Positioning device. 1,681,970; Aug. 28.

Bertrand, Frederic E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stock-fitting machine. 1,681,971; Aug. 28.

Bethlehem Steel Company. (See Keller, Albert T., assignor.)

Beusch, Willi, assignor to the firm Landis & Gyr A.-G., Zug, Switzerland. Electricity meter. 1,682,547; Aug. 28.

Bevans, Frederick G., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Loose-leaf binder. 1,682,108; Aug. 28.

Bigoney, Thomas W., Philadelphia, Pa. Toothbrush. 1,682,548; Aug. 28.

Bijur, Joseph, New York, N. Y. Coupling. 1,682,720; Aug. 28.

Bijur, Joseph, New York, N. Y. Coupling and the like. 1,682,721; Aug. 28.

Bijur, Joseph, New York, N. Y. Coupling and the like. 1,682,722; Aug. 28.

Bilbao, José, Habana, Cuba. Aircraft. 1,682,263; Aug. 28.

Billerbeck, Henry E., Glenside, Pa. Electric-circuit controller. 1,682,549; Aug. 28.

Bishop, Joseph W., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del. Switch. 1,682,211; Aug. 28.

Bjorkstedt, William G., Jamaica, N. Y. Treating aluminum containing minerals. 1,681,921; Aug. 28.

Blackwell, Otto B., Plandome, N. Y., and H. A. Affel, Maplewood, N. J., assignors to American Telephone and Telegraph Company. Carrier amplitude-control system. 1,681,972; Aug. 28.

Blaikie, Kenneth G. (See Matheson, H. W., and Blaikie.)

Blake, Moffitt & Towne. (See Hoblick, Benjamin M., assignor.)

Blank, Ernst, Eitorf-on-the-Sieg, Germany. Brushlike implement for painting with liquid substances. 1,682,657; Aug. 28.

Bliss, Louis W., Paterson, N. J. Producing printed pictures in colors. 1,681,927; Aug. 28.

Bliziotis, George E., assignor to Consolidated Research Laboratories, Inc., Newark, N. J. Electric condenser and manufacture. 1,682,031; Aug. 28.

Blomquist, August E. R., Cleveland Heights, Ohio. Manicuring implement. 1,682,475; Aug. 28.

Blnhm, Alexandre, assignor to Societe Anonyme Francaise Du "Ferodo," Paris, France. Facing member for brakes and the like. 1,682,319; Aug. 29.

Boch, Louise H., New York, N. Y. Kit bag. 1,681,922; Aug. 28.

Bockmühl, Max, R. Schwabe, and G. Ehrhart, Hochst-on-the-Main, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, New York, N. Y. Soporifics containing at least one alkinyl group. 1,682,062; Aug. 28.

Boeppler, Louis, Oakland, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Lock for folding boxes. 1,682,165; Aug. 28.

Bomze, Jacob. (See Dellaree, F. H., and Bomze.)

Borden Company, The. (See Green, Lee B., assignor.)

Borsheim, Hans T., assignor to Hart Parr Company, Charles City, Iowa. Washing machine. 1,682,212; Aug. 28.

Bosco, George B., Chicago, Ill. Timber clamp. 1,682,658; Aug. 28.

Botsford, Claude W., Los Angeles, Calif., assignor to William W. Odell, Pittsburgh, Pa. Generating gas. 1,682,264; Aug. 28.

Bourgeois, John B., Worcester, Mass. Fuse cut-out. 1,682,365; Aug. 28.

Bovard, William P., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail bonding. 1,682,109; Aug. 28.

Bowers, W. W. (See Condit, George M., assignor.)

Bradner, Hosea T., Cleveland, Ohio. Match package. 1,682,110; Aug. 28.

Brannock, Charles F., Syracuse, N. Y. Foot-measuring instrument. 1,682,366; Aug. 28.

Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Interleaving device. 1,682,699; Aug. 28.

Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Control mechanism for interleaving duplicating machines. 1,682,700; Aug. 28.

Brawn, Dennis F., assignor, by mesne assignments, to Eaton Axle & Spring Company, Cleveland, Ohio. Bracing means for tubular filler members. 1,682,367; Aug. 28.

Breisch, Edgar W., Edgewood, and F. B. Falknor, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Lightning arrester. 1,682,476; Aug. 28.

Breton, Jules-Louis, Bellevue, France. Dish washing and drying machine. 1,682,063; Aug. 28.

Brewer, Charles A., Noroton Heights, Conn., assignor to Cannon Engineering Co., Brooklyn, N. Y. Electric steam generator. 1,682,320; Aug. 28.

Brewer-Titchener Corporation, The. (See Winans, Daniel M., assignor.)

Bridgham, Arthur L., Boston, Mass. Lubricating device. 1,682,659; Aug. 28.

Briggs Manufacturing Company. (See Maise, Herman C., assignor.)

Brillo Manufacturing Company. (See Field, Crosby, assignor.)

Bringhenti, Plinio, Milan, Italy. Process and device for concentrating incrusting or corrosive solutions. 1,682,265; Aug. 28.

Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Piston ring or assembly. 1,682,477; Aug. 28.

Broderick-Son-Raymond Company. (See Raymond, Lambert L., assignor.)

Broholm, Edwin W., Twodot, Mont. Shocking machine. 1,682,595; Aug. 28.

Bronander, Wilhelm B., Montclair, N. J. Internal-combustion engine. 1,682,111; Aug. 28.

Brooke, Frank W., Pittsburgh, Pa. Heating bar. 1,682,112; Aug. 28.

Brooks, Joshua T., Edgeworth, and E. A. Skowron, Pittsburgh, Pa.; said Skowron assignor to said Brooks. Rail anchor. 1,682,478; Aug. 28.

Brophy, John J., Salem, and W. E. Broughton, assignors to The Turner Tanning Machinery Company, Peabody, Mass. Machine for treating hides, skins, and leather. 1,682,032; Aug. 28.

Broughton, Winn E. (See Brophy, J. J., and Broughton.)

Brown, Albert. (See Peck, R. G., and Brown.)

Brown & Bigelow. (See Fischer, Howard L., assignor.)

Brown, Boveri & Cie. (See Seitz, Oskar, assignor.)

Brown, Frederick W., Columbus, assignor of one-half to G. R. Austin, Bellefontaine, Ohio. Dolomite cement and process of producing the same. 1,682,479; Aug. 28.

Brown, Harry D., assignor to Cinema Studios Supply Corporation, Los Angeles, Calif. Rheostat. 1,682,113; Aug. 28.

Brown, Max, assignor to Royal Metal Lighting Fixture Co., Inc., New York, N. Y. Lighting-fixture bracket or article of similar nature. Des. 76,178; Aug. 28.

Browne, Alfred L., East Orange, N. J. Pressure-controlling liquid seal. 1,682,550; Aug. 28.

Bruce, Alfred W., New York, N. Y. Locomotive boiler. 1,682,692; Aug. 28.

Bruce, Alfred W., New York, N. Y. Locomotive boiler. 1,682,723; Aug. 28.

Bruckner, Rudolph E., Bayside, N. Y., assignor to National Gauge and Equipment Company, La Crosse, Wis. High-pressure gauge casing having an explosion vent. 1,682,033; Aug. 28.

Brundage, James W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for vulcanizing pneumatic tires. 1,681,973; Aug. 28.

Brunnträger, Franz. (See Kränzlein, G. Voss, and Brunnträger.)

Brunswick-Balke-Collender Company, The. (See Bishop, Joseph W., assignor.)

Brunswick-Balke-Collender Company, The. (See Thompson, George L., assignor.)

Bryan, Murrice T., Redondo Beach, Calif. Liquid-fuel vaporizer. 1,682,065; Aug. 28.

Bryant, Albert H., and E. G. Tuck, Portland, Oreg. Raft for transporting timber. 1,682,064; Aug. 28.

Buckeye Steel Castings Company, The. (See Bush, S. P., and Larsen, assignors.)

Buckwalter Stove Company. (See Hewitt, Frank W., assignor.)

Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)

Bungeroth, Rudolf, Dusseldorf, Germany. Tube expander. 1,682,724; Aug. 28.

Bunke, Fred H. (See Cory, J. M., and Bunke.)

Burgess, Edward W., assignor to A. O. Smith Corporation, Milwaukee, Wis. Steel grid for floors and pavements. Des. 76,179; Aug. 28.

Burke, Milton C., assignor to Merchants Publishing Company, Kalamazoo, Mich. Display stand. 1,682,660; Aug. 28.

Burmister, Donald M., New York, N. Y., assignor to The Keuffel & Esser Company, Hoboken, N. J. Surveying instrument. 1,682,034; Aug. 28.

Burnley, Robert C., Louisville, Ky. Clothes-pressing machine. 1,682,003; Aug. 28.

Burns, Joseph T., assignor to one-half to C. Y. Hibbs, Philadelphia, Pa. Lighter. 1,682,661; Aug. 28.

Bush, Samuel P., and J. C. Larsen, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Car truck. 1,682,480; Aug. 28.

Butler Mfg. Corporation. (See Petilli, Vincent, assignor.)

Butterworth, Samuel D., Miami Beach, Fla. Nailing block. 1,682,662; Aug. 28.

Byrne, Michael C., Revesby, via Bankstown, New South Wales, Australia. Egg-turning tray. 1,682,321; Aug. 28.

Cady, John A., Los Angeles, Calif. Grab for use in wells. 1,682,481; Aug. 28.

Callan, William D., Duluth, assignor to Economic Powdered Products Company, Minneapolis, Minn. Dehydrating apparatus. 1,682,596; Aug. 28.

Camell, Philip, Wilmington, Del. Switch-point depressor and hold-down device. 1,682,597; Aug. 28.

Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Air brake. 1,682,482; Aug. 28.

Campbell Hausfeld Company, The. (See Armour, John S, assignor.)

Campbell, John H., Frankfort, Kans. Lister corn harrow. 1,682,322; Aug. 28.

Canadian Electro Products Company. (See Matheson, H. W., and Blaikie, assignors.)

Cannon Engineering Co. (See Brewer, Charles A., assignor.)

Carlson, Charles A., Long Beach, Calif. Gas anchor. 1,682,114; Aug. 28.

Carroll, Emil J., Norwood, assignor to The American Laundry Machinery Company, Norwood Station, Ohio. Padding. 1,682,483; Aug. 28.

Carroll, Emil J., Norwood, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Electric garment press. 1,682,484; Aug. 28.

Cartier Limited. (See Downes, Andrew, assignor.)

Casey, Francis C., Claflin, Kans. Automobile jack. 1,682,066; Aug. 28.

Casto, Lloyd V., assignor to Oxford Varnish Corporation, Detroit, Mich. Marbleizing process. 1,682,067; Aug. 28.

Cavanagh, John F., assignor to The Screw Machine Products Corporation, Providence, R. I. Selective telephone system. 1,682,068; Aug. 28.

Chadwick, Lee S., Shaker Heights, and M. Resek, Cleveland Heights, assignors to Perfection Stove Company, Cleveland, Ohio. Liquid-fuel stove. 1,682,701; Aug. 28.

Chamberlain, Harold B., East Orange, N. J., assignor to The Tuco Products Company, New York, N. Y. Metal foundation for composite floors. 1,682,551; Aug. 28.

Champion Porcelain Company. (See Riddle, Frank H., assignor.)

Champion Shoe Machinery Company. (See Dobyne, Stephen A., assignor.)

Chapel, George L., assignor to W. B. Jarvis Company, Grand Rapids, Mich. Radiator cap or the like. 1,682,552; Aug. 28.

Chapman, Leo M. (See Hollister, W. C., and Chapman.)

Chapman, Penrose E., St. Louis, Mo. Winding and dereeling device. 1,682,213; Aug. 28.

Charter, James A., Chicago, Ill. Engine starter. 1,682,368; Aug. 28.

Chayes Dental Instrument Corporation. (See Chayes, Herman E. S., assignor.)

Chayes, Herman E. S., assignor, by mesne assignments, to Chayes Dental Instrument Corporation, New York, N. Y. Machine for reducing or trimming material in strip form. 1,682,663; Aug. 28.

Chevillot, Alfred, Paris, France, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,682,214; Aug. 28.

Chicago Electric Manufacturing Company. (See Preston, Edward S., assignor.)

Chicago Lino-Tabler Company. (See Hollister, W. C., and Chapman, assignors.)

Chicago Lino-Tabler Company. (See Wallin, G. E., and Masengarb, assignors.)

Chireix, Henri, Paris, France. Radio transmission receiving system. 1,682,664; Aug. 28.

Cinema Studios Supply Corporation. (See Brown, Harry D., assignor.)

Circle F Mfg. Co. (See Freeman, Edgar H., assignor.)

Clark, Albert L., jr., Ann Arbor, Mich. Plotting instrument. 1,682,035; Aug. 28.

Clark Controller Company, The. (See Schnabel, James F., assignor.)

Clark, Raymond B., Freewater, Oreg. Film-winding mechanism. 1,682,553; Aug. 28.

Clark, William L. M., St. Louis, Mo. Game-piece support and process of using the same. 1,682,485; Aug. 28.

Clark, Wycliffe L., Jamestown, N. Y. Hinge. 1,681,974; Aug. 21.

Clear Vision Pump Company, Limited. (See Manson, T. M., and Ward, assignors.)

Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Subdivided service system of radio broadcast distribution. Re17,069; Aug. 28.

Cleveland Folding Machine Company, The. (See Tufts, Lesley R., assignor.)

Cleveland Tractor Company, The. (See Jones, George D., assignor.)

Cohn, Max M., assignor to National Paper Products Company, San Francisco, Calif. Toilet and tissue paper package. 1,682,115; Aug. 28.

Colby, Warren L., Providence, R. I. Dispensing device. 1,682,215; Aug. 28.

Colladay, Edward F. (See Clement, Edward E., assignor.)

Collins, William B., Beverly Hills, Calif. Garment bag. 1,681,923; Aug. 28.

Columbus Dental Manufacturing Company, The. (See Marx, Harry A., assignor.)

Condit, George M., Waterville, assignor of one-half to W. W. Bowers, Waterbury, Conn. Switch socket. 1,682,599; Aug. 28.

Conlon, Thomas A., Silver Spring, Md. Mechanical loader for cannon. 1,682,323; Aug. 28.

Continental Optical Corporation. (See Aldrich, Carl G., assignor.)

Cooper, Francis W., Montreal, Quebec, Canada, assignor to Stead Rail Anchors, Incorporated, New York, N. Y. Rail anchor. 1,682,370; Aug. 28.

Conroy, James J., St. Paul, Minn. Radiator hanger. 1,682,486; Aug. 28.

Consolidated Research Laboratories, Inc. (See Bliziotis, George E., assignor.)

Consolidation Coal Products Company. (See McIntire, Charles V., assignor.)

Continental Can Company. (See Hare, Lawrence V., assignor.)

Conway, John J., assignor to The Acme Shear Company, Bridgeport, Conn. Shipping and display box. 1,682,069; Aug. 28.

Cook, Donald J., Gunthorpe, near Melton Constable, England. Apparatus for testing eggs. 1,682,598; Aug. 28.

Corning Glass Works. (See Littleton, Jesse T., jr., assignor.)

Corona, Arthur, Brooklyn, assignor of one-half to N. Hirsch, New York, N. Y. Tractor attachment. 1,682,717; Aug. 28.

Cory, James M., and F. H. Bunke, Lima, assignors to The Solar Refining Company, Lima, Ohio. Disposing of acid sludge and spent clay in oil-refining plants. 1,682,369; Aug. 28.

Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cementing machine. 1,682,036; Aug. 28.

Costini, Antonio. (See Romero, I., and Costini.)

Coty, Francois J. de S., Paris, France, assignor to Coty, Inc., New York, N. Y. Bottle. Des. 76,180; Aug. 28.

Coty, Inc. (See Coty, Francois J. de S., assignor.)

Couch, Forrest J., Cincinnati, assignor to The American Laundry Machinery Company, Norwood, Ohio. Door-clamping mechanism. 1,682,116; Aug. 28.

Coultas, Wilbur J. (See Paradise, L. A., and Coultas.)

Cowgill, Orph W., assignor to St. Louis Label Works, St. Louis, Mo. Blanking and transferring mechanism for box making machines. 1,681,928; Aug. 28.

Craig, Albert M., Chicago, Ill. Spray gun. 1,682,037; Aug. 28.

Crane, Raymond E., and D. E. Gulick, Kittanning, Pa. Water-closet. 1,682,166; Aug. 28.

Creed & Company. (See Worthington, James R., assignor.)

Cremen, Daniel J., Blackwood, N. J. Cap. 1,682,004; Aug. 28.

Creveling, John L., Oracle, Ariz, assignor, by mesne assignments, to the Simplex Equipment Company, Inc., New York, N. Y. Electric regulation. 1,681,924; Aug. 28.

Crockett, William P., et al. (See Temple, Fred W., assignor.)

Crompton, Arthur, Manchester, England. Machine for finishing textile fabrics. 1,682,487; Aug. 28.

Crossley, Royal E., assignor to Crouse-Hinds Company, Syracuse, N. Y. Door construction for lamps and the like. 1,682,371; Aug. 28.

Crouse-Hinds Company. (See Crossley, Royal E., assignor.)

Cunico, Frank, assignor of one-half to I. Politi, San Francisco, Calif. Peeling machine. 1,682,600; Aug. 28.

Cunningham, John A., Bethlehem, assignor of one-half to M. Cunningham, Philadelphia, Pa. Indoor-golf hole. 1,682,601; Aug. 28.

Cunningham, Mary. (See Cunningham, John A., assignor.)

Curtiss Aeroplane & Motor Company. (See Joyce, Temple N., assignor.)

Curtiss Aeroplane & Motor Company. (See Vaughn, Stanley I., assignor.)

Curtiss Aeroplane and Motor Company. (See Wait, William, jr., assignor.)

Curtiss, Glenn H., Hialeah, Fla. Automotive vehicle. 1,682,324; Aug. 28.

Cutler-Hammer Mfg. Co., The. (See Horton, Albert J., assignor.)

Cutler-Hammer Mfg. Co., The. (See Hunter, R. B., and Evans, assignors.)

Cutler-Hammer Mfg. Co., The. (See Pinkerton, Clarence S., assignor.)

Daggy, Benjamin T., Richmond, Ind. Surgical apparatus. 1,682,266; Aug. 28.

Dahlman, Peter, Grandy, Minn. Potato picker and bagger. 1,682,554; Aug. 28.

Daly, Joseph P., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Actuating mechanism for pressing machines. 1,682,372; Aug. 28.

D'Amico, Angelo, and A. L. Greenberg, Stockton, Calif. Toothbrush. 1,682,323; Aug. 28.

Daniel, William H., Spokane, Wash. Toy aeroplane. 1,682,267; Aug. 28.

Davenport, George L., jr., Los Angeles, Calif. Radiant-heater attachment. 1,682,038; Aug. 28

Davies, W. Sanders, et al., trustees. (See Davis, Kenneth, assignor.)

Davey, James A., Sound Beach, Conn., P. H. Davey and C. L. Gaugler, Kent, said Gaugler assignor of his one-third to The Davey Tree Expert Company, Kent, Ohio. Wood-cutting apparatus. 1,682,268; Aug. 28.

Davey, Paul H. (See Davey, J. A. and P. H., and Gaugler.)

Davey Tree Expert Company, The. (See Davey, J. A. and P. H., and Gaugler, assignor.)

Davis, Ernest, Chicago, Ill., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Toggle mechanism. 1,682,373; Aug. 28.

Davis, Ernest, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Equalizing mechanism for pressing machines. 1,682,488; Aug. 28.

Davis, Isadore, assignor to Interlocking Shingle Co., Des Moines, Iowa. Roofing element. 1,681,975; Aug. 28.

Davis, Kenneth, St. Benedict, Pa., assignor, by mesne assignments, to R. Peale, W. S. Davies, and W. S. Wallace, trustees. Mechanism for disintegrating dislodged material. 1,682,555; Aug. 28.

Davis, Kenneth, St. Benedict, Pa., assignor to R., R., and R. Peale, jr., trustees. Mining machine. 1,682,556; Aug. 28.

Davis, Kenneth, St. Benedict, Pa., assignor, by mesne assignments, to R. Peale, W. S. Davies, and W. S. Wallace, trustees. Mining machine. 1,682,557; Aug. 28.

Dawley, Clarence A., Plainfield, N. J. Flow meter. 1,682,602; Aug. 28.

Day, Salisbury M., assignor to General Railway Signal Company, Rochester, N. Y. Support for light signals. 1,682,693; Aug. 28.

Day, William P., Cleveland Heights, Ohio. Rail support. 1,682,665; Aug. 28.

Day, William P., Cleveland Heights, Ohio. Rail support. 1,682,666; Aug. 28.

De Armond, William C., and W. R. H. Watt, assignors to Gravity Carbonator Company, Philadelphia, Pa. Mixed beverage-vending apparatus. 1,681,929; Aug. 28.

Deere & Company. (See Paradise, Louis A., assignor.)

Deere & Company. (See Paradise, L. A., and Coultas, assignors.)

Delatone Company, The. (See Miner, C. S., and Trolander, assignors.)

Delbridge, Thomas G., and J. B. Hill, assignors to The Atlantic Refining Company, Philadelphia, Pa. Liquid phase purification of distillates. 1,682,603; Aug. 28.

Dell, Frank C., Chicago, Ill. Fountain pen. Des. 76,181; Aug. 28.

Dell, Frank C., assignor to Autopoint Company, Chicago, Ill. Pencil. 1,682,070; Aug. 28.

Dellaree, Frank H., and J. Bomze, Detroit, Mich. Window-cleaning device. 1,682,216; Aug. 28.

Deming Company, The. (See Randolph, Alfred, assignor.)

Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Multiple dispensing mechanism. 1,681,930; Aug. 28.

Dental Cleanser Company. (See Hope, Frederick T., assignor.)

Dershimer, Titus D., Clarks Summit, Pa. Folding crate. 1,682,489; Aug. 28.

Deutschmeister, Abraham, Bronx, N. Y. Advertisement carrier. 1,682,167; Aug. 28.

De Wallace, Harry, Syracuse, N. Y. Bottle closure. 1,681,976; Aug. 28.

De Zonia, Robert E., assignor of one-fourth to J. N. Ripley, Denver, Colo. Greenhouse protector. 1,682,005; Aug. 28.

Diamond Power Specialty Corporation. (See Henton, Herman C., assignor.)

Dick, A. B., Company. (See Brasseur, Ernest J., assignor.)

Dicks, William, Buffalo, N. Y. Ventilator. 1,682,605; Aug. 28.

Dieterich, William, assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 76,182; Aug. 28.

Dillard, William F. (See Fell, James R., assignor.)

Disbrow, Hiram G., Brooklyn, N. Y. Clamp. 1,682,604; Aug. 28.

Doan, Theodore H., jr., Cleveland Heights, Ohio, assignor to Foote-Burt Company. Drilling machine. 1,682,558; Aug. 28.

Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Belt-drive mechanism. 1,682,217; Aug. 28.

Doetsch & Bauer Company. (See Bauer, Carl, assignor.)

Doherty Research Company. (See Fisher, James P., assignor.)

Dorl, Walter P., Detroit, Mich. Reciprocating mop. 1,682,168; Aug. 28.

Dorr, George P. (See Bates, A. M., and Dorr.)

Dorrance, David W. (See Kosek, J. H., and Trautman, assignors.)

Dougan, Bruce, St. Louis, Mo. Pencil sharpener. 1,682,169; Aug. 28.

Dougherty, John H. (See Goyne, Charles H., J. G., A. F., and Dougherty.)

Downes, Andrew, assignor to Cartier Limited, London, England. Expanding bracelet and like articles of jewelry. 1,682,607; Aug. 28.

Dressel, Frederick W., New York, N. Y., assignor to Dressel Railway Lamp & Signal Corporation, Arlington, N. J. Light-projecting device. 1,682,608; Aug. 28.

Dressel Railway Lamp & Signal Corporation. (See Dressel, Frederick W., assignor.)

Dressel Railway Lamp & Signal Corporation. (See Hobbie, Alonzo D., assignor.)

Dressler, Sigmund B., Newark, N. J. Fresnel-type lens. 1,682,490; Aug. 28.

Dunning, Fitzgerald, and E. E. Reid, assignors to Hynson, Westcott & Dunning, Baltimore, Md. Production of primary stibinic acids. 1,682,269; Aug. 28.

Durham Duplex Razor Company. (See Alvarado, Fernando A., assignor.)

Dvilnsky, Abraham, Brockton, Mass. Pinking machine. 1,682,606; Aug. 28.

Eaton Axle & Spring Company. (See Brawn, Dennis F., assignor.)

Eaton Axle & Spring Company, The. (See Horton, Allen A., assignor.)

Eaton Axle & Spring Company, The. (See Reid, James S., assignor.)

Economic Powdered Products Company. (See Callan, William D., assignor.)

Edelman, Philip E., Chicago, Ill. Radio battery eliminator. 1,682,492; Aug. 28.

Edwards, Henry J., assignor to The Willys-Overland Company, Toledo, Ohio. Metal-coated valve sleeve and coating the same. 1,682,702; Aug. 28.

Egan, Walter J., Brooklyn, N. Y. Sanitary cover for garbage cans. 1,682,491; Aug. 27.

Ehrenfeld, Ralph, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Clutch. 1,682,493; Aug. 28.

Ehrhart, Gustav. (See Bockmühl, M., Schwabe, and Ehrhart.)

Eichner, Robert F., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 76,183; Aug. 28.

Eichner, Robert F., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 76,184; Aug. 28.

Eifel, Joseph, Chicago, Ill. Expansible loose-sheet holder. 1,682,667; Aug. 28.

Ekelund, John A., Minneapolis, Minn. Ball game apparatus. 1,682,170; Aug. 28.

Eliason, Sid H., Portland, Oreg. Projection apparatus. 1,682,326; Aug. 28.

Elliott-Fisher Co. (See Foothorap, Harry A., assignor.)

Ellis, Howard G., Waltham, and H. A. Mathis, assignors to Hood Rubber Company, Watertown, Mass. Cement-applying machine. 1,682,494; Aug. 28.

Ellison, Edward H., Jamestown, assignor to Austral Window Company, New York, N. Y. Balance arm for windows. 1,681,931; Aug. 28.

Ellison, Edward H., Jamestown, assignor to Austral Window Company, New York, N. Y. Manufacturing balance arms for windows. 1,681,932; Aug. 28.

Embossing Company, The. (See Rutherford, John, assignor.)

Empire Thresher Co. (See Shanks, John N., assignor.)

English, Fred S., New London, Conn. Cutting and creasing press. 1,682,609; Aug. 28.

English, Fred S., New London, Conn. Folding feed table for presses. 1,682,668; Aug. 28.

Enos, Alexander, Seattle, Wash. Permutation lock. 1,682,171; Aug. 28.

Enterprise Manufacturing Company, The. (See Pflueger, Charles T., assignor.)

Erie Malleable Iron Company. (See Selah, Howard A., assignor.)

Eriksen, Johan E., Oslo, Norway. Apparatus for regulating speed variations in power engines exposed to varying load. 1,682,270; Aug. 28.

Eriksson, Anders. (See Löfström, J. and O., assignors.)

Ernst, Walter, assignor, to Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Automatic hydraulic press. 1,682,172; Aug. 28.

Espersen, Arthur F. (See Holmes, H. H., and Espersen.)

Evans, Clarence T. (See Hunter, R. B., and Evans.)

Evans, John A., Tyrone, Pa., assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,682,218; Aug. 28.

Eveleth, George L., Arcadia, Calif. Door with combined screen and adjustable window. 1,682,271; Aug. 28.

Failor, Charles W., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Cab signaling system for railway yards. 1,681,977; Aug. 28.

Falknor, Frank B. (See Breisch, E. W., and Falknor.)

Falknor, Frank B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Superheterodyne receiver. 1,682,495; Aug. 28.

Farrel-Birmingham Company. (See Gordon, William A., assignor.)

Feagles, Ralph L., Fort Wayne, Ind. Container. 1,682,039; Aug. 28.

Fedders, John M., assignor to Fedders Manufacturing Company Inc., Buffalo, N. Y. Radiator core. 1,682,327; Aug. 28.

Fedders Manufacturing Company Inc. (See Fedders, John M., assignor.)

Feeney, William P., Sheboygan, Mich. Felt washer. 1,682,496; Aug. 28.

Fell, James R., assignor to W. F. Dillard, Haleyville, Ala. Vehicle truck bed. 1,682,610; Aug. 28.

Fellows Gear Shaper Company, The. (See Miller, Edward W., assignor.)

Field, Crosby, Brooklyn, N. Y., assignor to Brillo Manufacturing Company, Inc. Soaping and cleaning device. 1,682,117; Aug. 28.

Field, Crosby, Brooklyn, N. Y., assignor to Brillo Manufacturing Company, Inc. Cleaning device. 1,682,118; Aug. 28.

Field, Crosby, Brooklyn, N. Y., assignor to Brillo Manufatcuring Company, Inc. Cleaning device. 1,682,119; Aug. 28.

Field, Crosby, Brooklyn, N. Y., assignor to Brillo Manufacturing Company, Inc. Scrubber soap. 1,682,120; Aug. 28.

Finn, John, Mill Valley, Calif. Movable arm rest. 1,682,071; Aug. 28.

Fischer, Howard L., assignor to Brown & Bigelow, St. Paul, Minn. Pencil. 1,682,072; Aug. 28.

Fisher, Benjamin K., St. Louis, Mo. Cigarette-rolling device. 1,682,219; Aug. 28.

Fisher, Herbert E., Seattle, Wash. Signal device. 1,682,073; Aug. 28.

Fisher, James P., Bartlesville, Okla., assignor to Doherty Research Company, New York, N. Y. Return bend. 1,681,933; Aug. 28.

Fisk Rubber Company, The. (See Hennessy, Daniel E., assignor.)

Foley, Earl H., and P. J. Gunn, Tacoma, Wash., assignors to International Acoustigraph Company, Tacoma, Wash. Ring cone-shaped diaphragm device. 1,682,611; Aug. 28.

Foote-Burt Company. (See Doan, Theodore, H., jr., assignor.)

Foothorap, Harry A., Harrisburg, Pa., assignor to Elliott-Fisher Co., New York, N. Y. Typewriting machine. 1,681,978; Aug. 28.

Ford, Henry, Dearborn, Mich. Ignition device. 1,682,220; Aug. 28.

Foresman, Robert A., Moore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Furnace structure. 1,682,328; Aug. 28.

Förster, Bernhard, Pforzheim, Germany. Manufacturing of snappers for snap rings. 1,682,074; Aug. 28.

Foster Wheeler Corporation. (See Bell, John E., assignor.)

Foster Wheeler Corporation. (See Primrose, John, assignor.)

Foulds, Charles V., Berkeley, assignor to The Pelton Water Wheel Co., San Francisco, Calif. Water-tight seat for butterfly valves. 1,682,075; Aug. 28.

Fow, Mitchell. (See Leon, Benjamin, and Fow.)

Franco, Attilio, Milan, Italy. Steam locomotive. 1,682,006; Aug. 28.

Frankenstein, William B., Rochester, N. Y. Record holder. 1,682,272; Aug. 28.

Franklin Printing Company, The. (See Smith, Clarence L., assignor.)

Freeland, Claud H., Lansing, Mich. Window. 1,682,669; Aug. 28.

Freeman, Edgar H., assignor to Circle F. Mfg. Co., Trenton, N. J. Switch. 1,682,007; Aug. 28.

Frenkel, Guillermo, Buenos Aires, Argentina. Signaling device for motor cars and the like. 1,682,497; Aug. 28.

Fritchle, Oliver P., Chicago, Ill. Radiocabinet. Des. 76,185; Aug. 28.

Froesch, Charles. (See Masury, Alfred F., and Froesch.)

Fulda, René. (See Marrec, Yves, and Fulda.)

Fuller, William A., Toledo, Ohio. Wardrobe. 1,682,273; Aug. 28.

Fulli, Robert, New York, N. Y. Shoe heel. 1,681,934; Aug. 28.

Gabler-Adlersfeld, Hugo, Vienna, Austria. Production of imitation paintings. 1,682,261; Aug. 28.

Gaede, Samuel A., Los Angeles, Calif. Window-mounted automobile signal. 1,682,173; Aug. 28.

Gano, Harlan S., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transformer-load indicator. 1,682,498; Aug. 28.

Gaugler, Charles L. (See Davey, J. and P. H., and Gaugler.)

Gebbert, Arthur, Erlangen, Germany. High-frequency oscillation system for medical apparatus. 1,682,121; Aug. 28.

Gehres, Hewitt A., Mount Vernon, Ohio. Valve construction. 1,682,499; Aug. 28.

General Railway Signal Company. (See Day, Salisbury M., assignor.)

General Railway Signal Company. (See Howe, Winthrop K., assignor.)

Gerrard Company, The. (See McChesney, John S., assignor.)

Getz, Benjamin E., assignor of one-half to Getz Power Washer Co., Merton, Ill., and one-half to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Washing machine. 1,682,500; Aug. 28.

Getz Power Washer Co. et al. (See Getz, Benjamin E., assignor.)

Gibbs, Walter A., Holly Oak, Del. Animal trap. 1,682,612; Aug. 28.

Giese, Irving W., Chicago, Ill. Music rack. 1,682,122; Aug. 28.

Gilbert, Charles F., St. Louis, Mo. Drain. 1,681,981; Aug. 28.

Gilbert, Henry J., assignor to Saginaw Manufacturing Co., Saginaw, Mich. Split pulley. 1,682,559; Aug. 28.

Gilman, Albert E., Ottawa, Ill., assignor to King and Hamilton Company, Ottawa, Ill. Corn sheller. 1,682,374; Aug. 28.

Glavin, John D., Providence, R. I. Game device. 1,682,329; Aug. 28.

Gleason Works. (See Rolf, Joseph H., assignor.)

Gogry, Jean O., Vincennes, France. Protecting electric and other cables. 1,682,076; Aug. 28.

Going, George G., Middletown, Conn., assignor, by mesne assignments, to Remington Typewriter Company. Typewriting machine. 1,682,330; Aug. 28.

Goldsmith, Bertram J., and E. Koeb, New York, assignors to Perfect Window Regulator Corporation, Long Island City, N. Y. Window construction. 1,682,070; Aug. 28.

Gong Bell Manufacturing Company. (See Watrous, Clifford M., assignor.

Gooding, George F., Seattle, Wash. Collapsible bench leg. 1,682,671; Aug. 28.

Goodrich, B. F., Company. The. (See Brundage, James W., assignor.)

Goodrich, B. F., Company, The. (See Pierson, Robert M., assignor.)

Gordon, William A., Shelton, assignor to Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Machine for manipulating plastic materials. Re17,070; Aug. 28.

Gossling, Walter E., New York, N. Y., assignor, by mesne assignments, to Prest-O-Lite Storage Battery Corporation. Terminal-post connecter. 1,682,221; Aug. 28.

Goyne, Albert F. (See Goyne, C. H., J. G., and A. F., and Dougherty.)

Goyne, Charles H., J. G., and A. F., and J. H. Dougherty, assignors to Goyne Steam Pump Company, Ashland, Pa. Pump system. 1,682,331; Aug. 28.

Goyne, John G. (See Goyne, C. H., J. G., and A. F., and Dougherty.)

Goyne Steam Pump Company. (See Goyne, C. H., J. G., and A. F., and Dougherty, assignors.)

Graham Brothers. (See Milner, Nugent, assignor.)

Graham, Herbert R., Miller, S. Dak. Front-seat construction for automobiles. 1,681,979; Aug. 28.

Gravity Carbonator Company. (See De Armond, W. C., and Watt, assignors.)

Gray, Emmet P., Detroit, Mich. Air-cooled muffler. 1,682,077; Aug. 28.

Green, Lee B., Lakewood, Ohio, assignor to The Borden Company, Warren, Ohio. Vise. 1,682,501; Aug. 28.

Greenberg, Abraham L. (See D'Amico, A., and Greenberg.)

Greenidge, Samuel M., Dallas, Tex. Packing for pistons and the like. 1,682,222; Aug. 28.

Greenlaw, William H., Beverly, Mass. Support for fire-alarm and police signal boxes. 1,682,613; Aug. 28.

Gross, Edward L., Chicago, Ill. Apparatus for purifying used lubricating oil. 1,681,980; Aug. 28.

Gross, Miriam, assignor to Miriam Gross Company, Milwaukee, Wis. Knitted dress. Des. 76,186; Aug. 28.

Gross, Miriam, Company. (See Gross, Miriam, assignor.)

Grüber, Hans, Muhldorf, Germany. Explosive mine. 1,682,560; Aug. 28.

Gwinn, George W., Hewlett, N. Y., assignor to International Cigar Machinery Company. Cigar-box-stamping machine. 1,682,503; Aug. 28.

Guertin, Henry V., Patchogue, N. Y. Poultry feeding and watering device. 1,682,614; Aug. 28.

Guild, Waldo J., assignor to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,682,672; Aug. 28.

Guillet, Amédée V. J., and A. Bertrand, Paris, France. Apparatus for determining the frequency of rotation or oscillation of moving parts. 1,682,725; Aug. 28.

Gulick, David E. (See Crane, R. E., and Gulick.)

Gump, B. F., Co. (See Williams, William M., assignor.)

Gunn, Paul J. (See Foley, E. H., and Gunn.)

Gusler, George T., and O. H. Schnelle, Columbus, Ohio. Basement or cellar pump. 1,682,502; Aug. 28.

Gussner, Otto C., Mandan, N. Dak. Grater and reamer for citrous fruits. 1,682,274; Aug. 28.
Hack, Thomas M. (See Stuthridge, J. H., and Hack.)
Hegenbarth, Francis, St. Louis, Mo. Wave motor. 1,682,176; Aug. 28.
Haines, Leonard M., Studley, assignor to William Hall & Company Limited, Studley, Warwick, England. Wrapper for needles. Des. 76,187; Aug. 28.
Hall, Horace W., Newton Center, Mass. Racket and art of manufacture thereof. 1,682,504; Aug. 28.
Hall, William, & Company Limited. (See Haines, Leonard M., assignor.)
Hamlin, Otto, Quincy, Mass. Annunciator. 1,682,332; Aug. 28.
Hands, Howard A., assignor to Hood Rubber Company, Watertown, Mass. Means relating to the manufacture of rubber water bottles. 1,682,223; Aug. 28.
Handy, Arthur E. (See Margles, S. G., and Handy.)
Hanff, Ferdinand, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Producing varnished wires. 1,682,123; Aug. 28.
Hanlen, Clifford F., Phoenix, Ariz. Elevating-transfer-storage rack. 1,682,078; Aug. 28.
Hanna, Clinton R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Telephone instrument. 1,682,505; Aug. 28.
Hannah, Jefferson D., Fayetteville, Ark. Window-shade and lace-curtain support. 1,682,079; Aug. 28.
Hansen, Marius H., assignor to Hanson Brothers Scale Company, Chicago, Ill. Scale mechanism. 1,682,506; Aug. 28.
Hanson Brothers Scale Company. (See Hansen, Marius H., assignor.)
Hardie, John C., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-positioning device. 1,682,040; Aug. 28.
Hare, Lawrence V., Jersey City, N. J., assignor to Continental Can Company, Inc., Syracuse, N. Y. Air pump for spraying devices. 1,682,174; Aug. 28.
Harloff, Bernard C., Richmond Hill, N. Y. Reenforced-concrete slab. 1,682,726; Aug. 28.
Harper Electric Furnace Corporation. (See Kelleher, James, assignor.)
Harrigan, Herman R., Holyoke, assignor to E. D. Jones & Sons Co., Pittsfield, Mass. Jordan engine. 1,681,935; Aug. 28.
Hart, Frederick A., New Britain, Conn., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,682,333; Aug. 28.
Hart, William E., San Jose, Calif. Automobile bumper. 1,682,507; Aug. 28.
Hart Parr Company. (See Borsheim, Hans T., assignor.)
Hartman, Carl H. and L. H., Toledo, Ohio, assignors, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill. Bag-separating apparatus. 1,682,276; Aug. 28.
Hartman, Louis H. (See Hartman, Carl H. and L. H.)
Hartman Trunk Company. (See Ritter, Julius, jr., assignor.)
Harvey, Albert L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,682,508; Aug. 28.
Harwick, Clarence R., Waterloo, Iowa. Parachute-opening device. 1,682,509; Aug. 28.
Harwig, Carl G., Chicago, Ill., assignor to The Regau Safety Devices Company, Inc., New York, N. Y. Relay. 1,682,510; Aug. 28.
Haseltine, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Refrigerator-car-door-operating mechanism. 1,682,041; Aug. 28.
Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,682,042; Aug. 28.
Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,682,043; Aug. 28.
Hassler, Paul M., assignor to The Louden Machinery Company, Fairfield, Iowa. Elevated conveyer. 1,682,175; Aug. 28.
Haug, Anton J., Nashua, N. H. Apparatus for crushing material. 1,682,511; Aug. 28.
Hauser, Konrad, Horgen, Switzerland. Needle-lease reed. 1,682,334; Aug. 28.
Hayes, Fred B., assignor to Western Gas Construction Company, Fort Wayne, Ind. Oil-spray purge mechanism for water-gas apparatus. 1,682,277; Aug. 28.
Hayes, Harvey C., Anacostia, D. C., and M. Mason, Chicago, Ill., assignors to Submarine Signal Company, Portland, Me. Directive sound transmission. 1,681,982; Aug. 28.
Hays, Harry S., Moline, Ill. Internal-combustion engine. 1,682,512; Aug. 28.
Heald Machine Company, The. (See Guild, Waldo J., assignor.)
Heald Machine Company, The. (See Taylor, Edward M., assignor.)
Healey-Aeromarine Bus Company. (See Zimmermann, P. G., and Korvin-Kroukovsky, assignors.)
Heaton, Herman C., Chicago, Ill., assignor to Diamond Power Specialty Corporation, Detroit, Mich. Boiler cleaner. 1,682,278; Aug. 28.
Hedlund, William T., New York, N. Y. Steam plant. 1,682,674; Aug. 28.
Heidt, Michael, Brooklyn, N. Y. Window guard. 1,682,375; Aug. 28.
Heller, William, New York, N. Y. Textile fabric. Des. 76,188; Aug. 28.
Heller, William, New York, N. Y. Textile fabric. Des. 76,189; Aug. 28.
Heltzel, John N., Warren, Ohio. Concrete form. 1,682,008; Aug. 28.
Helvey, Oliver J., La Crescenta, Calif. Combined street lamp and sign bracket. Des. 76,190; Aug. 28.
Hendrix, Charles E., Jefferson City, Mo. Humidifier. 1,682,513; Aug. 28.
Hendry, William F., Ossining, N. Y., assignor to Manhattan Electrical Supply Company, Incorporated, New York, N. Y. Attachment plug. 1,682,335; Aug. 28.
Hennen, Earl C., Charleston, W. Va., assignor to The United States Nito Co., Inc., Columbus, Ohio. Motor fuel. 1,682,561; Aug. 28.
Hennessy, Daniel E., Akron, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Manufacturing rubber tubes. 1,682,124; Aug. 28.
Hennessy, Daniel E., Akron, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Making rubber tubes. 1,682,125; Aug. 28.
Henze, Otto, Brooklyn, N. Y. Combination indicating and adjusting device for radiocircuits. 1,682,376; Aug. 28.
Hentschel, Robert, Bremen, Germany. Suction device for multistage centrifugal pumps. 1,682,336; Aug. 28.
Herbert, Alfred, Limited. (See Jackson, Ralph, assignor.)
Hercules Powder Company. (See Johnston, Alan C., assignor.)
Hereford, Essie M. (See McDaneld, Marleta M., assignor.)
Herlon, Heinrich G., New York, N. Y. Fan. 1,682,044; Aug. 28.
Hewitt, Frank W., Arlington, Mass., assignor, by mesne assignments, to Buckwalter Stove Company, Royersford, Pa. Automatic cooking. 1,682,337; Aug. 28.
Heyer, Frederic K., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. 1,682,080; Aug. 28.
Hibbs, Clarence Y. (See Burns, Joseph T., assignor.)
Hickok Manufacturing Company. (See Dieterich, William, assignor.)
Hickok Manufacturing Company. (See Eichner, Robert F., assignor.)
Hicks, Thomas W., Minneapolis, Minn. Tiller. 1,682,224; Aug. 28.
Hill, Joseph B., assignor to The Atlantic Refining Company, Philadelphia, Pa. Treatment of lead sludge. 1,682,562; Aug. 28.
Hill, Myron F., New York, N. Y. Internal rotor. 1,682,563; Aug. 28.
Hill, Myron F., New York, N. Y. Compressor. 1,682,564; Aug. 28.
Hill, Myron F., New York, N. Y. Rotary compressor. 1,682,565; Aug. 28.
Hill, Joseph B. (See Delbridge, T. G., and Hill.)
Hillstrom, Golden A., Chicago, Ill. Boat carrier for automobiles. 1,681,936; Aug. 28.
Hilpert, Meier G., Bethlehem, Pa. Game apparatus. 1,682,279; Aug. 28.
Hirsch, Nathan. (See Corona, Arthur, assignor.)
Hobbie, Alonzo D., Newark, assignor to Dressel Railway Lamp & Signal Corporation, Arlington, N. J. Light-projecting device. 1,682,567; Aug. 28.
Hoblick, Benjamin M., Fresno, assignor to Blake Moffitt & Towne, San Francisco, Calif. Packing pad. 1,682,177; Aug. 28.
Hobs, Richard, Secaucus, N. J. Combined clock-savings-bank device. 1,682,568; Aug. 28.
Hodgkinson, Francis, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Steam turbine. 1,682,338; Aug. 28.
Hoffman, William M., Roxbury, Mass. Fare register. 1,682,126; Aug. 28.
Hofmann, Herbert. (See Wanninger, C. K., and Hofmann.)
Holder, Charles, assignor to Michigan Valve & Foundry Company, Detroit, Mich. Hydrant. 1,682,225; Aug. 28.
Holley George M., Detroit, Mich. Vaporizing device. 1,681,937; Aug. 28.
Hollister, William C., and L. M. Chapman, assignors to Chicago Lino-Tabler Compay, Chicago, Ill. Producing vertically-ruled printing forms. 1,682,514; Aug. 28.
Hollister, William C., and L. M. Chapman, assignors to Chicago Lino-Tabler Company, Chicago, Ill. Broach. 1,682,515; Aug. 28.
Hollman, Charles, Fort Wayne, Ind. Tube-winding machine. 1,682,045; Aug. 28.
Holmes, Harold H., and A. F. Espersen, La Crosse, Wis. Oil burner. 1,682,615; Aug. 28.
Holveck, Joseph E., Pittsburgh, Pa. Hydraulic system. 1,682,569; Aug. 28.
Holveck, Joseph E., Pittsburgh, Pa. Pump. 1,682,570; Aug. 28.
Home Comfort Heater Company. (See Wenz, Joseph M., assignor.)
Hood Rubber Company. (See Ellis, H. G., and Mathis, assignors.)
Hood Rubber Company. (See Hands, Howard A., assignor.)
Hope, Frederick T., assignor to Dental Cleanser Company, Seattle, Wash. Teeth-cleaning device. 1,682,178; Aug. 28.

Horan, Jeremiah, Flushing, N. Y. Sanitary butter-knife container. 1,682,571; Aug. 28.
Horikoshi, Tokujiro, Los Angeles, Calif. Trap. 1,682,226; Aug. 28.
Horsfield, Basil T., Badin, N. C., assignor to Aluminum Company of America, Pittsburgh, Pa. Refractory heat-insulating material and making the same. 1,682,675; Aug. 28.
Horton, Albert J., White Plains, N. Y., assignor to The Cutler-Hammer Mfg Co., Milwaukee, Wis. Electromagnetically-operated device. 1,682,676; Aug. 28.
Horton, Allen A., Plymouth, Mich., assignor, by mesne assignments, to The Eaton Axle & Spring Company, Cleveland, Ohio. Closure. 1,682,081; Aug. 28.
Houston, Harold A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric locomotive. 1,682,517; Aug. 28.
Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Automatic train control system. 1,682,518; Aug. 28.
Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Adjustable photographic vignetter. 1,682,127; Aug. 28.
Hubbard, Henry E., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Printing device. 1,682,519; Aug. 28.
Hudson Heating Systems, Inc. (See Shriner, Robert L., assignor.)
Hufline, J. L., et al., joint trustees. (See Beardslee, Francis C., assignor.)
Hunter, Richard B., and C. T. Evans, assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Method of and apparatus for control of electrical conditions of circuits. 1,682,566; Aug. 28.
Husvar, Vincent, assignor to Scovill Manufacturing Co., Waterbury, Conn. Apparatus for producing cap screws and the like. 1,682,520; Aug. 28.
Hutchinson, Ely C., Oakland, Calif., assignor to The Pelton Water Wheel Co., San Francisco, Calif. Adjustable seal ring. 1,682,339; Aug. 28.
Hüttemann, Wilhelm, Cologne, Germany. Door lock. 1,682,521; Aug. 28.
Hydraulic Press Manufacturing Company. (See Ernst, Walter, assignor.)
Hydraulic Specialty Manufacturing Company, The. (See McKinney, Edward H., assignor.)
Hynson, Westcott & Dunning. (See Dunning, F., and Reid, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Kränzlein, G., Voss, and Brunnträger, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Spengler, O., and Thurm, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Wietzel, G., and Stoewener, assignors.)
Iglehart, Richard S., assignor to The Bauer Brothers Company, Springfield, Ohio. Attrition mill. 1,682,128; Aug. 28.
Individual Drinking Cup Company, The. (See Ringler, William A., assignor.)
Industrial Research Corporation. (See Brockway, Carl P., assignor.)
Information Cabinet Company. (See Walker, Russell S., assignor.)
Inman, Harry A., Newark, N. Y. Container construction. 1,682,129; Aug. 28.
Interlocking Shingle Co. (See Davis, Isidore, assignor.)
International Acoustigraph Company. (See Foley, E. H., and Gunn, assignors.)
International Cigar Machinery Company. (See Gwinn, George W., assignor.)
International Harvester Company. (See Dennis, Samuel K., assignor.)
International Motor Company. (See Masury, A. F., and Froesch, assignors.)
International Silver Company. (See Kintz, Alfred G., assignor.)
International Skywriters Limited. (See Alder, William A., assignor.)
International Spotlight Corporation. (See Sklarek, Clifford, assignor.)
Irving, Fitch C., Brooklyn, N. Y. Triangle pad. 1,682,616; Aug. 28.
Irving-Pitt Manufacturing Company. (See Bevans, Frederick G., assignor.)
Ives, Claude, Otsego, assignor of one-half to C. Pierce, Martin, Mich. Doctor bar. 1,682,522; Aug. 28.
Jackson, John. (See Arelt, C., and Jackson.)
Jackson, Ralph, Coventry, assignor to Alfred Herbert Limited, Butts, Coventry, England. Coal-pulverizing machine. 1,682,377; Aug. 28.
Jaeger, Gebhard, Columbus, Ohio. Batch meter for concrete mixers. 1,682,340; Aug. 28.
James, Andrew C., Houston, Tex. Electrode holder. 1,682,523; Aug. 28.
James, Andrew C., Houston, Tex. Composition of matter. 1,682,524; Aug. 28.
Jamestown Blower Company. (See Nelson, E. H., and Tingwall, assignors.)
Jarvis, W. B., Company. (See Chapel, George L., assignor.)
Jensen, Kresten R. (See Jensen, W. G., and Jensen.)
Jensen, William G. and K. R., Nowata, Okla. Safety hook. 1,682,617; Aug. 28.
Johnson, Cortes, Long Beach, Calif. Kite-string traveler. 1,682,082; Aug. 28.
Johnson, Raymond E., Manistee, Mich. Combination tie and collar folder. 1,682,046; Aug. 28.
Johnsson, Emil T., Chicago, Ill. Temperature-controlling apparatus. 1,682,227; Aug. 28.
Johnston, Alan C., Mine Hill, N. J., assignor to Hercules Powder Company, Wilmington, Del. Preparing alkyl esters of abietic acid. 1,682,280; Aug. 28.
Johnston, Frank B., Roselle Park, N. J., assignor to American Safety Device Company, New York, N. Y. Lifting apparatus. 1,682,083; Aug. 28.
Johnston, Theodore, Topeka, Kans. Packing ring. 1,682,130; Aug. 28.
Joiner, Sylvester L., McGregor, Tex. Combined grain-door strip and side-door-post protector. 1,682,281; Aug. 28.
Joiner, Sylvester L., McGregor, Tex. Stop pin for coupling heads. 1,682,282; Aug. 28.
Jones, E. D., & Sons Co. (See Harrigan, Herman R., assignor.)
Jones, George D., Sacramento, Calif., assignor to The Cleveland Tractor Company, Cleveland, Ohio. Tractor-propelled implement. 1,682,228; Aug. 28.
Jones, George D., Cleveland, assignor to The Cleveland Tractor Company, Euclid, Ohio. Combined tractor and agricultural implement. 1,682,727; Aug. 28.
Jones, Robert, Milwaukee, Wis. Automobile extricating mechanism. 1,682,284; Aug. 28.
Jolly, Richard W., Wimbledon, assignor of one-half to Meters, Limited, Manchester, England. Coin-controlled electricity meter. 1,682,283; Aug. 28.
Josephson, Romeo H., Parramatta, near Sydney, New South Wales, Australia. Commutator distributor for internal-combustion engines. 1,682,525; Aug. 28.
Joyce, Temple N., Arnold, Md., assignor to Curtiss Aeroplane & Motor Company, Inc. Adjustable windshield. 1,682,229; Aug. 28.
Judd, Richard M., E. C. Taylor, and J. Worth, assignors to Premier Warm Air Heater Company, Dowagiac, Mich. Casing hanger. 1,682,526; Aug. 28.
Judd, Richard M., E. C. Taylor, and R. S. McNaney, assignors to Premier Warm Air Heater Company, Dowagiac, Mich. Direct-draft regulator for warm-air furnaces. 1,682,527; Aug. 28.
Kauffman, Walter, Columbus, Ohio. Oil burner. 1,682,677; Aug. 28.
Kaupke, Lee H., assignor to Rock Island Plow Company, Rock Island, Ill. Runner opener. 1,681,938; Aug. 28.
Keith, George, assignor to James Keith & Blackman Company, Limited, London, England. Centrifugal apparatus for dust separation. 1,682,285; Aug. 28.
Keith, James, & Blackman Company. (See Keith, George, assignor.)
Kelleher, James, Chippewa, Ontario, Canada, assignor to Harper Electric Furnace Corporation. Tunnel kiln. 1,681,939; Aug. 28.
Keller, Albert T., assignor to Bethlehem Steel Company, Bethlehem, Pa. Open-hearth furnace. 1,682,378; Aug. 28.
Keller, Lucia R., St. Paul, Minn. Lingerie clasp. 1,681,983; Aug. 28.
Keller Printing Company. (See Schlegelmilch, William M., assignor.)
Kellett, William P., Brantford, Ontario, Canada. Tile. 1,682,379; Aug. 28.
Kelliher, M. M. (See Shefveland, Rudolph A., assignor.)
Kellogg Switchboard & Supply Company. (See Spencer, Henry R., assignor.)
Kellogg Switchboard & Supply Company. (See Meyers, John F., assignor.)
Kenan, John J. W., Crafton, Pa. Finishing device. 1,682,678; Aug. 28.
Keplinger, George B., Chicago, Ill. Siren squawker. 1,682,341; Aug. 28.
Keuffel, Carl W., Weehawken, assignor to Keuffel and Esser Company, Hoboken, N. J. Rotating-disk photometer. 1,682,528; Aug. 28.
Keuffel, Carl W., Weehawken, N. J., assignor to Keuffel and Esser Company, Hoboken, N. J. Optical instrument. 1,682,572; Aug. 28.
Keuffel & Esser Company, The. (See Burmister, Donald M., assignor.)
Keuffel and Esser Company. (See Keuffel, Carl W., assignor.)
Kiel Furniture Co., The. (See Belrose, Albert J., assignor.)
King and Hamilton Company. (See Gilman, Albert E., assignor.)
King, Harvey, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Starting system for electric motors. 1,682,380; Aug. 28.
Kinney, Claude A., Hannibal, Mo. Combination tool. 1,682,009; Aug. 28.
Kintz, Alfred G., Wallingford, assignor to International Silver Company, Meriden, Conn. Spoon or similar article. Des. 76,193; Aug. 28.
Kintzing, Reese T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,682,381; Aug. 28.
Kinzbach, Alfred, Sour Lake, Tex. Tank-gauging apparatus. 1,682,286; Aug. 28.
Kipper, Herman B., Muskegon, Mich. Process of and apparatus for distillation of oil from oil shale. 1,682,287; Aug. 28.
Klein, Hugo, and P. Kuhn, Niederschelden-Sieg, Germany. Gridwork for air heaters. 1,682,131; Aug. 28.
Klein, Joseph. (See Berry, W. G., Klein, and Schmidt.)

Kline, Louis S., Youngstown, Ohio. Wheel attachment. 1,682,618; Aug. 28.
Knorr, Samuel N., Lagrange, Wyo. Electric-lighting fixture. Des. 76,194; Aug. 28.
Koesis, John, New York, N. Y. Clutch-locking device for tractors. 1,682,574; Aug. 28.
Koeb, Emil. (See Goldsmith, B. J., and Koeb.)
Koplitz, Edward B., Hoboken, N. J. Box-cover fastener. 1,682,010; Aug. 28.
Korvin-Kroukovsky, Boris V. (See Zimmermann, P. G., and Korvin-Kroukovsky.)
Kosek, Joseph H., and R. B. Trautman, assignors to D. W. Dorrance, Minneapolis, Minn. Artificial limb. 1,682,132; Aug. 28.
Kovacs, Mary J., St. Clairsville, Ohio. Automatic gate for railways. 1,682,573; Aug. 28.
Kraft, Lucas, Elizabeth, N. J. Lamp. 1,682,342; Aug. 28.
Kränzlein, Georg, A. Voss, and F. Brunnträger, Hoechst-on-the-Main, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main Germany. Sulphonated cellulose derivatives and preparing them. 1,682,382; Aug. 28.
Krembs, Ottmar M., Chicago, Ill. Container. 1,682,179; Aug. 28.
Kretzer, Sidney D., St. Louis, Mo. Lightning-rod construction. 1,682,288; Aug. 28.
Kriz, Joseph, jr., St. Paul, Minn. Automatic take-up for connecting rods. 1,682,011; Aug. 28.
Kübler, Johannes, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Electrical rectifying apparatus. 1,682,383; Aug. 28.
Kühltransit-Verkehrs-Aktiengesellschaft. (See Rathke, Alfred C. F., assignor.)
Kuhn, Paul. (See Klein, H., and Kuhn.)
Kuhnle, Adolf, Neuenburg, Germany. Connection device specially for jewelry. 1,682,290; Aug. 28.
Kvist, Paul, Seattle, Wash. Hair-cutting device. 1,682,289; Aug. 28.
Ladd, James B., Ardmore, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Automatic skid. 1,682,133; Aug. 28.
Lambert, Joseph G., Chicago, Ill. Cooking device. 1,682,384; Aug. 28.
Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Truck bolster. 1,682,529; Aug. 28.
Lampert, Henry H., Chicago, Ill. Bar support. 1,682,012; Aug. 28.
Lander, James G., Milwaukee, Wis. Box. 1,681,940; Aug. 28.
Landis & Gyr A.-G. (See Beusch, Willi, assignor.)
Lane, Louis, Habana, Cuba. Glazing system. 1,682,291; Aug. 28.
Lang, John T., and C. F. Schoefer, Tottenville, N. Y. Sign holder. 1,682,047; Aug. 28.
Lanigan, James A., Cincinnati, Ohio. Smelting furnace. 1,682,343; Aug. 28.
Larsen, Jacob C. (See Bush, S. P., and Larsen.)
Latex Products, Inc. (See Loomis, Chauncey C., assignor.)
La Turner, Erben E., Jerome, Idaho. Flexible steam spotter. 1,682,619; Aug. 28.
Lawton, Charles B., Detroit, Mich. Subterranean building. 1,682,679; Aug. 28.
Ledwinka, Joseph, assignor to Edw. G. Budd Manufacturing Company, Philadelphia, Pa. Removable upholstery for automobile doors. 1,681,941; Aug. 28.
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Cowl ventilator. 1,681,942; Aug. 28.
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Apparatus for electrical vulcanizing. 1,682,620; Aug. 28.
Lee, Ronald C. (See Lutz, Alfred, assignor.)
Lee Rubber & Tire Corporation. (See Leopold, Frederick, jr., assignor.)
Leibing, William E., Oakland, assignor to Magnus Fruit Products Co., San Francisco, Calif. Cooling apparatus for beverage dispensers. 1,682,385; Aug. 28.
Leneschmidt, Fred, Tripp, S. Dak. Forceps. 1,682,621; Aug. 28.
Leon, Benjamin, and M. Fow, Camden, N. J. Beetle trap. 1,682,575; Aug. 28.
Leonard, John B., Detroit, Mich. Sanding machine. 1,682,013; Aug. 28.
Leopold, Frederick, jr., Harmonville, assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa. Tire casing. Des. 76,195; Aug. 28.
Leopold, Henri, Paris, France. Stamp and ticket delivering machine. 1,682,084; Aug. 28.
Lesieur, Maurice, Paris, France. Apparatus for the subcutaneous injection of oxygen or other gases. 1,682,344; Aug. 28.
Lessmann, Herbert F., Des Moines, Iowa. Stamp-affixing machine. 1,681,984; Aug. 28.
Levien, Louis, New York, N. Y. Receptacle and handle therefor. 1,682,048; Aug. 28.
Lewis, Claude A., Houston, Tex. Window pole. 1,681,990; Aug. 28.
Lewis, Claude A., Houston, Tex., assignor to American Window Company. Window. 1,681,985; Aug. 28.
Lewis, Claude, A., Houston, Tex., assignor to American Window Company. Window latch. 1,681,986; Aug. 28.
Lewis, Claude A., Houston, Tex., assignor to American Window Company. Window-sash support. 1,681,987; Aug. 28.
Lewis, Claude A., assignor to American Window Company, Houston, Tex. Resiliently-mounted window sash. 1,681,988; Aug. 28.
Lewis, Claude A., assignor to American Window Company, Houston, Tex. Top latch for windows. 1,681,989; Aug. 28.
Lewis, Frank M., Chicago, Ill. Differential mechanism. 1,682,386; Aug. 28.
Lewis, John M. B., Lynchburg, Va. Headlight. 1,682,387; Aug. 28.
Lewis, William E., West Mystic, Conn. Flexible shaft coupling. 1,682,576; Aug. 28.
Lidgerwood Manufacturing Company. (See Meany, J. M., and Norris, assignors.)
Lifschutz, Louis, Buffalo, N. Y. Circuit closer for collision-indicating devices. 1,682,134; Aug. 28.
Lilienfeld, Leon, Vienna, Austria. Cellulose derivative and producing same. 1,682,292; Aug. 28.
Lilienfeld, Leon, Vienna, Austria. Artificial material and making same. 1,682,293; Aug. 28.
Lilienfeld, Leon, Vienna, Austria. Cellulose derivative and producing same. 1,672,294; Aug. 28.
Lincoln, Rollo B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Induction furnace. 1,682,388; Aug. 28
Little, Donald G., Edgewood, Pa., assignor to Radio Corporation of America. Radio apparatus. 1,682,703; Aug. 28.
Little, Francis M., Youngstown, Ohio. Hair-curling appliance. 1,682,345; Aug. 28.
Littlefield, Henry B., Cleveland Heights, Ohio. Companion bed. 1,682,577; Aug. 28.
Littleton, Jesse T., jr., assignor to Corning Glass Works, Corning, N. Y. Detecting and measuring strains. 1,681,991; Aug. 28.
Litzner, Adam L., Allenville, Mich. Well-drilling machine. 1,682,295; Aug. 28.
Lockard, Earl K., Santa Barbara, Calif. Lamp post. Des. 76,196; Aug. 28.
Löfström, Johannes and O., Ostersund, assignors of one-half to A. Eriksson, Boda, Lit, Sweden. Motor sleigh. 1,682,622; Aug. 28.
Löfström, Olof. (See Löfström, Johannes, and O.)
Loomis, Chauncey C., Yonkers, assignors, by mesne assignments, to Latex Products, Inc., New York. Flooring. 1,682,530; Aug. 28.
Loomis, Crawford C., Ilion, N. Y., assignor to Remington Arms Company, Inc. Firearms. 1,682,704; Aug. 28.
Lorenz, William A., assignor to The Otaka Fabric Company, Hartford, Conn. Paper fabric. 1,682,346; Aug. 28.
Losey, Thornton W., Silver Grove, Ky. Combination tool. 1,682,694; Aug. 28.
Louden Machinery Company, The. (See Hassler, Paul M., assignor.)
Lovell Manufacturing Company. (See Misner, Edgar D., assignor.)
Lovenwirth, Samuel, Philadelphia, Pa. Machine for applying paste to paper sheets. 1,681,992; Aug. 28.
Ludeke, William A., Rochester, N. Y. Weather strip. 1,682,389; Aug. 28.
Luft-Fahrzeug Gesellschaft m. b. H. (See Nattaz, Hermann, assignor.)
Luftschiffbau Zeppelin G. m. b. H. (See Strobl, Hans, assignor.)
Lutz, Alfred, Seehof, near Teltow, Germany, assignor, by mesne assignments, to Ronald C. Lee, Bedford, N. Y. Treating fibrous material. 1,682,390; Aug. 28.
Macfarren, Walter W., Pittsburgh, Pa. Chain hydraulic mining machine. 1,682,296; Aug. 28.
Macrae, James N., Jersey City, N. J., assignor to Petroleum Heat and Power Company, New York, N. Y. Oil burner. 1,682,531; Aug. 28.
Madvig, Gunnar, Oakland, Calif. Metal holdback for curtains and draperies. Des. 76,197; Aug. 28.
Magnus Fruit Products Co. (See Leibing, William E., assignor.)
Maise, Herman C., assignor to Briggs Manufacturing Company, Detroit, Mich. Vehicle body and constructing the same. 1,682,532; Aug. 28.
Manhattan Electrical Supply Company. (See Hendry, William F., assignor.)
Mann, James H., jr., Mont Eagle, Tenn., assignor to Southwestern Sales Corporation, New York, N. Y. Mountable and demountable casing for coin-controlled devices. 1,682,135; Aug. 28.
Manson, Thomas M., and C. H. Ward, assignors to Clear Vision Pump Company, Limited, Toronto, Ontario, Canada. Liquid dispenser. 1,682,705; Aug. 28.
Marchev, Alfred, et al. (See Temple, Fred W., assignor.)
Margles, Samuel G., Brooklyn, and A. E. Handy, Lynbrook, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Safety device for conveyers. 1,682,014; Aug. 28.
Marrec Limited. (See Marrec, Y., and Fulda, assignors.)
Marrec, Yves, Suresnes, and R. Fulda, Paris, France, assignors, by mesne assignments, to Marrec Limited, London, England. Receiving system for electric waves or currents of constant frequency. 1,682,533; Aug. 28.
Marshall, James V., assignor to New Castle Refractories Company, New Castle, Pa. Ladle lining. 1,681,943; Aug. 28.
Marshall, Thomas, jr., Chicago, Ill. Truck for storage batteries. 1,681,944; Aug. 28.
Martin, James V., Garden City, N. Y. Vehicle speed control. 1,682,297; Aug. 28.

Martinat, Jean, New York, N. Y. Vanity case. 1,682,534; Aug. 28.
Marx, Harry A., Bywood, Pa., assignor to The Columbus Dental Manufacturing Company, Columbus, Ohio. Porcelain-root teeth. 1,682,298; Aug. 28.
Masengarb, Emil G. (See Wallin, G. E., and Masengarb.)
Mason, Max. (See Hayes, H. C., and Mason.)
Mason, Max, New London, Conn., assignor to Submarine Signal Company, Portland, Me. Determination of wave-energy direction. 1,682,706; Aug. 28.
Masury, Alfred F., and C. Froesch, assignors to International Motor Company, New York, N. Y. Multiwheel drive for vehicles. 1,682,299; Aug. 28.
Matheson, Howard W., Montreal, and K. G. Blaikie, Shawinigan Falls, assignors to Canadian Electro Products Company Limited, Montreal, Quebec, Canada. Manufacture of hydroxy acid esters. 1,682,347; Aug. 28.
Mathis, Herbert A. (See Ellis, H. G., and Mathis.)
Matlock, Chauncey, Brooklyn, N. Y., assignor to Monroe-Louisiana Carbon Company, Monroe, La. Apparatus for producing carbon. 1,681,945; Aug. 28.
Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley frog. 1,682,136; Aug. 28.
Matthews, Howard D., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Temperature-control system. 1,682,391; Aug. 28.
Maurel, Henry F., Providence, R. I. Preparing a fuel product. 1,682,680; Aug. 28.
McArdle, Michael W., Chicago, Ill. Storage and carrying case. Des. 76,198; Aug. 28.
McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,681,993; Aug. 28.
McChesney, John S., Chicago, Ill., assignor, by mesne assignments, to The Gerrard Company, Inc., San Francisco, Calif. Wire-tying machine. 1,682,015; Aug. 28.
McChesney, John S., Chicago, Ill., assignor, by mesne assignments, to The Gerrard Company, Inc., San Francisco, Calif. Method of and machine for producing deformed wire ties. 1,682,016; Aug. 28.
McCornack, Herbert, Glen Ridge, N. J. Pulsator for milking machines. 1,682,392; Aug. 28.
McCullough, Frederick S. (See Willard, T. A., and McCullough.)
McDaneld, Marieta M., assignor of one-half to E. M. Hereford, Johnson County, Kans. Hair lotion. 1,682,230; Aug. 28.
McIntire, Charles V., East Orange, N. J., assignor to Consolidation Coal Products Company, Wilmington, Del. Retort furnace. 1,681,946; Aug. 28.
McKinney, Edward H., Salina, assignor to The Hydraulic Specialty Manufacturing Company, Topeka, Kans. Hydraulic clutch transmission. 1,682,085; Aug. 28.
McKune, Frank B., Hamilton, Ontario, Canada, assignor, by mesne assignments, to Open Hearth Combustion Company, Chicago, Ill. Open-hearth furnace. Re17,071; Aug. 28.
McLaughlin, Frederick E., Everett, Wash. Railway lamp. 1,682,300; Aug. 28.
McMillan, Wesley K., San Francisco, Calif. Tractor scraper. 1,682,137; Aug. 28.
McNaney, Ralph S. (See Judd, R. M., Taylor, and McNaney.)
Mead, Carl F., Cleveland, Ohio. Wire-drawing mechanism. 1,682,393; Aug. 28.
Meany, James M., and H. D. Norris, Portland, Oreg., assignors to Lidgerwood Manufacturing Company, New York, N. Y. Sheave block. 1,681,947; Aug. 28.
Menkin, Max, New York, N. Y. Button-assembling device. 1,682,301; Aug. 28.
Merchants Publishing Company. (See Burke, Milton C., assignor.)
Merrill, Albert A., Pasadena, Calif. Airplane laboratory. 1,682,138; Aug. 28.
Merrill, Earl S., Kansas City, Mo. Rack. 1,682,180; Aug. 28.
Merritt, Glenn W., Bowerston, Ohio. Combination automatic car feeding and stopping mechanism. 1,682,718; Aug. 28.
Meters, Limited. (See Jolly, Richard W., assignor.)
Mentsch, Charles C., Buffalo, N. Y. Mattress and cushion. 1,682,394; Aug. 28.
Meyer, Walter. (See Rebstock, J. H., and Meyer.)
Meyers, John F., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Alarm circuit. 1,682,049; Aug. 28.
Mezger, Charles A. (See Weiland, A., Russell, and Mezger.)
Michigan Valve & Foundry Company. (See Holder, Charles, assignor.)
Micro Machine Company. (See Baumberger, William J., assignor.)
Micro Machine Company. (See Baumberger, W. J., and York, assignors.)
Micro Machine Company. (See Palmer, William C., assignor.)
Micro Machine Company. (See York, H. H., and Baumberger, assignors.)
Miles, Eugene P., Hobart, Okla. Heater. 1,681,995; Aug. 28.
Miller, Edward W., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Generating tooth forms. 1,681,994; Aug. 28.
Miller, Harry C., Wilkinsburg, and A. J. Mottlau, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Control device. 1,682,395; Aug. 28.
Miller, Irwin W., Allentown, Pa. Cushion tire. 1,682,302; Aug. 28.
Miller, John J. A., Denver, Colo. Seal for car doors, shipping receptacles, etc. 1,682,396; Aug. 28.
Miller, Stuart P., Philadelphia, Pa., assignor to The Barrett Company. Rubber and resin compound. 1,682,397; Aug. 28.
Milner, Nugent, assignor to Graham Brothers, Evansville, Ind. Vehicle body construction. 1,682,281; Aug. 28.
Miner, Carl S., and E. W. Trolander, assignors, by mesne assignments, to The Delatone Company, Chicago, Ill. Depilatory. 1,682,181; Aug. 28.
Miner, Joseph A., assignor to American Metal Furniture Co., Indianapolis, Ind. Optician's cabinet. 1,682,695; Aug. 28.
Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)
Miner, W. H., Inc. (See O'Connor, John F., assignor.)
Misner, Edgar D., Detroit, Mich., assignor, by mesne assignments, to Lovell Manufacturing Company, Erie, Pa. Wringer. 1,682,232; Aug. 28.
Mitchell Camera Corporation. (See Mitchell, George A., assignor.)
Mitchell, Ernest, Eccles, Manchester, England. Manufacture of propellers. 1,682,398; Aug. 28.
Mitchell, Ernest, Eccles, Manchester, England. Extrusion of metals. 1,682,399; Aug. 28.
Mitchell, Frederic P., Los Angeles, Calif. Interior sectional partition. 1,682,400; Aug. 28.
Mitchell, George A., Los Angeles, Calif., assignor to Mitchell Camera Corporation. View finder. 1,682,139; Aug. 28.
Mitchell, John E. and O., St. Louis, Mo. Driving mechanism. 1,682,140; Aug. 28.
Mitchell, Orville. (See Mitchell, John E. and O.)
Mitsubishi Kogyo Kabushiki Kaisha. (See Anjow, Koji, assignor.)
Modigliani, Gino, assignor to the firm Ing. C. Olivetti & C., Ivrea, Italy. Megneto-electric machine. 1,682,086; Aug. 28.
Modlin, Frank E., Glendale, Calif. Nutcracker. 1,682,681; Aug. 28.
Möhl, Steffen, Copenhagen, Denmark. Hydraulic change-speed gearing. 1,682,303; Aug. 28.
Molnlar, Albert G., Albion, Mich. Hand-symbol signal. 1,682,233; Aug. 28.
Monroe-Louisiana Carbon Company. (See Matlock, Chauncey, assignor.)
Morgan, Blodgett, Morgan, Inc. (See Morgan, Porter S., assignor.)
Morgan, Porter S., assignor to Morgan, Boldgett, Morgan, Inc., New York, N. Y. Closing and retarding device. 1,682,696; Aug. 28.
Morris, Harold W., Waltham, Mass., assignor to Frederick Osann Company, New York, N. Y. Button clamp. 1,681,948; Aug. 28.
Morrison, Lucian, and J. O. Simmons, sr., Troy, Tex. Cultivator attachment. 1,682,182; Aug. 28.
Morrogh, Frank, Arnaudville, La. Folding crate. 1,681,996; Aug. 28.
Morvay, Zoltan V., Bridgeton, N. J. Duplex folder. 1,681,949; Aug. 28.
Mosca, Joseph, Rouse, Colo. Belt scraper for tractors. 1,682,623; Aug. 28.
Mottlau, August J. (See Miller, H. C., and Mottlau.)
Mottlau, August J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal relay. 1,682,401; Aug. 28.
Moyer, Paul S., assignor to The Aridor Company, Chicago, Ill. Closure. 1,682,234; Aug. 28.
Müller, Emilie E., Chemnitz, Germany. Round-knitting machine. 1,682,087; Aug. 28.
Müller, Heinrich, Gross Flottbeck, near Hamburg, assignor to the firm Johann Carl Müller, Dresden-A., Germany. Machine for mechanically mixing tobacco leaves. 1,682,017; Aug. 28.
Müller, firm Johann C. (See Müller, Heinrich, assignor.)
Mulvany, Harry A., Berkeley, Calif. Heating-element support. 1,682,402; Aug. 28.
Mummery, Clyde W., Detroit, Mich. Portable camp stove. Des. 76,199; Aug. 28.
Munroe, Harry, New York, N. Y. Spark plug. 1,681,997; Aug. 28.
Murray, Joseph B. and T. E., jr., Brooklyn, N. Y. Heat-conducting tube. 1,682,404; Aug. 28.
Murray, Thomas E., jr. (See Murray, Joseph B. and T. E., jr.)
Murray, Thomas E., Brooklyn, N. Y. Barrel. 1,682,403; Aug. 28.
N. V. Philips' Gloeilampenfabrieken. (See van der Pol, Balthazar, assignor.)
Naatz, Hermann, Berlin-Charlottenburg, assignor, by mesne assignments, to firm Luft-Fahrzeug Gesellschaft m. b. H., Kleiststr., Berlin, Germany. Nonrigid airship. 1,682,405; Aug. 28.
Nance, Oran H., Baltimore, Md. Oil separator. 1,682,304; Aug. 28.
National Cash Register Company. (See Shipley, Bernis M., assignor.)
National Gauge and Equipment Company. (See Bruckner, Rudolph E., assignor.)

National Paper Products Company. (See Cohn, Max M., assignor.)
Navarro y Gonzalez, Roman, Habana, Cuba. Packing machine. 1,682,275; Aug. 28.
Nebel, William, Charlotte, N. C. Feeding attachment for knitting machines. 1,682,050; Aug. 28.
Neff, John W., Easton, Pa. Ornamented paper. Des. 76,200; Aug. 28.
Nejedly, Peter M., Brooklyn, N. Y., assignor to American Machine & Foundry Company. Package stamper. 1,682,406; Aug. 28.
Nelson, Charles S., Sandpoint, Idaho. Vacuum tank. 1,682,141; Aug. 28.
Nelson, Edmund H., and E. F. Tingwall, assignor to Jamestown Blower Company, Jamestown, N. Y. Paint-spray booth. 1,682,407; Aug. 28.
Nelson, Swan, Chicago, Ill. Pop-corn machine. 1,682,018; Aug. 28.
Neubauer, Emil T., Port Huron, Mich. Rotary valve for internal-combustion engines. 1,682,088; Aug. 28.
New Castle Refractories Company. (See Marshall, James V., assignor.)
New England Wood Heel Co. (See Shaw, Wesley J., assignor.)
New York Air Brake Company, The. (See Campbell, Charles A., assignor.)
Nilson, Lars G., Hoboken, N. J. Internal-combustion engine and operating same. 1,682,305; Aug. 28.
Nipchild, Joseph A., Cleveland, Ohio. Envelope sealing and printing device. 1,682,578; Aug. 28.
Nordstrom, Raymond R., Litchfield, Minn. Figure wheel toy. 1,682,235; Aug. 28.
Norris, Howard D. (See Meany, J. M., and Norris.)
North, John H., Seattle, Wash. Valve. 1,682,624; Aug. 28.
Northrup, Edwin F., Princeton, assignor to Ajax Electrothermic Corporation, Trenton, N. J. Multiple-path water-cooled furnace. 1,681,950; Aug. 28.
Novick, Abraham. (See Young, M. S., and Novick.)
Nowosielski, Edward B., Bloomfield, assignor to Splitdorf Electrical Company, Newark, N. J. Radio tube socket. 1,682,408; Aug. 28.
Nyman, Alexander, East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company. Shielded transmitter. 1,682,409; Aug. 28.
Oakley, Laurence M., Trenton, N. J. Shoe heel. Des. 76,201; Aug. 28.
O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Side bearing. 1,682,019; Aug. 28.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,682,020; Aug. 28.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Buffing mechanism. 1,682,021; Aug. 28.
Odell, William W. (See Botsford, Claude W., assignor.)
Offenhauser, Christopher, Philadelphia, Pa. Separator. 1,682,535; Aug. 28.
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Ohio Brass Company, The. (See Bovard, William P., assignor.)
Ohio Brass Company, The. (See Matthes, Samuel S., assignor.)
Oldham, Fred C. (See Tucker, J. D., and Oldham.)
Oliver, Castagnola, Brooklyn, N. Y. Orthopedic last-fitting apparatus. 1,682,579; Aug. 28.
Olivetti, Ing. C., & C. (See Modigliano, Gino, assignor.)
Olsen, Corrine, et al. (See Olsen, Emil J., assignor.)
Olsen, Emelia, et al. (See Olsen, Emil J., assignor.)
Olsen, Emil J., assignor of twenty-five per cent to W. Olsen, twenty-five per cent to E. Olsen, twenty-five per cent to C. Olsen, and twenty-five per cent to V. Olsen, North St. Paul, Minn. Inflation device. 1,682,625; Aug. 28.
Olsen, Vernon, et al. (See Olsen, Emil J., assignor.)
Olsen, Waldo, et al. (See Olsen, Emil J., assignor.)
Olson, Carl W., assignor to American Safety Equipment Corporation, Minneapolis, Minn. Rotatable window. 1,682,236; Aug. 28.
Open Hearth Combustion Company. (See McKune, Frank B., assignor.)
Oppenheim, Ferdinand S., New York, N. Y. Container. 1,682,410; Aug. 28.
Oppenheim, Ferdinand S., New York, N. Y. Container. 1,682,411; Aug. 28.
Orange Lighting Fixture Manufacturing Co. (See Seidell, Alfred P., assignor.)
Osann, Frederick Company. (See Morris, Harold W., assignor.)
Osborn, Henry C., assignor to The American Multigraph Company, Cleveland, Ohio. Folding machine. 1,682,237; Aug. 28.
Ostline, John E., Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,682,089; Aug. 28.
Otaka Fabric Company. (See Lorenz, William A., assignor.)
Otis Elevator Company. (See Margles, S. G., and Handy, assignors.)
Otten, Lawrence F., Newport, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Belt loop for chains. 1,682,536; Aug. 28.
Ottinger, Leon, New York, N. Y. Latch-handle escutcheon and bearing. Re17,072; Aug. 28.
Oxford Varnish Corporation. (See Casto, Lloyd V., assignor.)
Owen, William A., Akron, Ohio. Repair part for footwear. 1,682,707; Aug. 28.
Owens, Freeman H., New York, N. Y. Spring lock for incandescent lamps. 1,682,682; Aug. 28.
P & M Company, The. (See Evans, John A., assignor.)
Palmer, John F., Buffalo, N. Y. Forming pneumatic tires. 1,682,238; Aug. 28.
Palmer, William C., Davenport, assignor to Micro Machine Company, Bettendorf, Iowa. Method and apparatus for radius grinding. 1,682,412; Aug. 28.
Paradise, Louis A., and W. J. Coultas, assignors to Deere & Company, Moline, Ill. Corn-husking rolls. 1,682,142; Aug. 28.
Paradise, Louis A., assignor to Deere & Company, Moline, Ill. Corn-picking rolls. 1,682,143; Aug. 28.
Paraffine Companies. (See Boeppler, Louis, assignor.)
Parks, Fred M., Murraysville, and G. R. Shaw, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. System of control. 1,682,413; Aug. 28.
Parodi, Angelo C., Jersey City Heights, N. J. Toaster and broiler. 1,682,683; Aug. 28.
Parsons, Charles A., and J. Rosen, Newcastle-on-Tyne, England, said Rosen assignor to said Parsons. Air-cooling apparatus. 1,682,183; Aug. 28.
Pass & Seymour, Inc. (See Russell, Mark N., assignor.)
Patrick, Walter A., assignor to The Silica Gel Corporation, Baltimore, Md. Gel and preparing the same. 1,682,239; Aug. 28.
Patrick, Walter A., assignor to The Silica Gel Corporation, Baltimore, Md. Preparing stannic-oxide gels. 1,682,240; Aug. 28.
Patrick, Walter A., assignor to The Silica Gel Corporation, Baltimore, Md. Making aluminum-oxide gels. 1,682,241; Aug. 28.
Patrick, Walter A., assignor to The Silica Gel Corporation, Baltimore, Md. Making titanium-oxide gels. 1,682,242; Aug. 28.
Peale, Rembrandt, et al., trustees. (See Davis, Kenneth, assignor.)
Peale, Richard et al., trustees. (See Davis, Kenneth, assignor.)
Pearson, Herman E., Wayzata, Minn. Motor toboggan. 1,682,051; Aug. 28.
Peck, Robert G., and A. Brown, assignors to The Aridor Company, Chicago, Ill. Candy jar. 1,682,243; Aug. 28.
Peckham, Arthur H., Chiloquin, Ore. Garment hanger. 1,682,626; Aug. 28.
Pelton Water Wheel Co., The. (See Foulds, Charles V., assignor.)
Pelton Water Wheel Co., The. (See Hutchinson, Ely C., assignor.)
Pendleton, Curtis A., Port Alberni, British Columbia, Canada. Seesaw. 1,681,998; Aug. 28.
Pendleton Manufacturing Co. (See Sitton, Eugene N., assignor.)
Perfect Window Regulator Corporation. (See Goldsmith, B. J., and Koeb, assignors.)
Perfection Stove Company. (See Chadwick, L. S., and Resek, assignors.)
Peterson, Charles W., Detroit, Mich. Electrical reproducer. 1,682,144; Aug. 28.
Petilli, Vincent, Bronx, assignor to Butler Mfg. Corporation, Brooklyn, N. Y. Automatic window ventilator. 1,682,708; Aug. 28.
Petroleum Heat and Power Company. (See Macrae, James N., assignor.)
Pflueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing reel. 1,682,709; Aug. 28.
Pflueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Spinner. 1,682,710; Aug. 28.
Pflueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Striker spoon. 1,682,711; Aug. 28.
Phillips, Elizabeth M., Clarendon, Va. Educational card game. 1,682,244; Aug. 28.
Pickerell, James, Hoopeston, Ill., assignor to American Can Company, New York, N. Y. Finger-gauge-truing device. 1,682,245; Aug. 28.
Pierce, Butler & Pierce Manufacturing Corporation. (See Reid, J., and Welch, assignors.)
Pierce, Charley. (See Ives, Claude, assignor.)
Pierce, George W., Cambridge, Mass., assignor to Submarine Signal Company, Portland, Me. Electric compensator. 1,682,712; Aug. 28.
Pierson, Robert M., Akron, Ohio, assignor to The H. F. Goodrich Company, New York, N. Y. Tank valve. 1,682,306; Aug. 28.
Pignanelli, Luigi, Tacoma, Wash. Shoe. 1,682,184; Aug. 28.
Pinkerton, Clarence S., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Fuel-flow regulator for constant heat. 1,682,684; Aug. 28.
Polacoff, Max, Brooklyn, N. Y. Building block. 1,682,414; Aug. 28.
Politi, Italo. (See Cunico, Frank, assignor.)
Porter, Catherine A. (See Porter, Clarence K., assignor.)

Porter, Clarence K., Lansing, Kans., assignor of one-half to C. A. Porter, Tulsa, Okla. Clutch controller. 1,682,348; Aug. 28.
Porter, Jessie B., executrix. (See Porter, Lewis E.)
Porter, Lewis E., deceased, Los Angeles, Calif.; J. B. Porter, executrix. Internal-combustion engine. 1,682,307; Aug. 28.
Potter, Albert T., assignor to Ainsworth Manufacturing Company, Detroit, Mich. Windshield construction. 1,682,185; Aug. 28.
Powrie, John H., New York, N. Y. Apparatus for producing screens for color photography. 1,682,415; Aug. 28.
Pratt, Edwin D., New York, N. Y. Method and apparatus for dispensing napkins. 1,682,580; Aug. 28.
Premier Warm Air Heater Company. (See Judd, R. M., Taylor, and Worth, assignors.)
Prest-O-Lite Storage Battery Corporation. (See Gossling, Walter E., assignor.)
Preston, Edward S., assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Heating unit for electrically-heated utensils. 1,681,951; Aug. 28.
Primrose, John, Richmond, assignor to Foster Wheeler Corporation, New York, N. Y. Return tubular superheater boiler. 1,681,952; Aug. 28.
Prosperity Company, The. (See Daly, Joseph P., assignor.)
Prosperity Company, The. (See Davis, Ernest, assignor.)
Quail, Harold H. (See Tracey, L. J., and Quail.)
Radcliffe, Arthur, Boston, Mass. Escalator. 1,682,052; Aug. 28.
Radio Corporation of America. (See Little, Donald G., assignor.)
Radio Frequency Laboratories, Inc. (See Ballantine, S., and Seabury, assignors.)
Rajet Company. (See Whitney, Lyman F. and W. E., assignors.)
Randolph, Alfred, assignor to The Deming Company, Salem, Ohio. Power-pump working head. 1,682,537; Aug. 28.
Raschick, Charles T., St. Paul, Minn. Milk-bottle cover. 1,682,090; Aug. 28.
Raso, Bernardo. (See Re, W. C., and Raso.)
Rathke, Alfred C. F., assignor to Kühltransit-Verkehrs-Aktiengesellschaft, Leipzig, Germany. Heat-tight and air-tight closing device for doors. 1,682,091; Aug. 28.
Raymond, Don A., Monticello, Ind. Fire stop or trap for motion-picture machines. 1,682,627; Aug. 28.
Raymond, Lambert L., assignor to Broderick-Son-Raymond Company, Minneapolis, Minn. Marking cutter for tree lamps. 1,682,416; Aug. 28.
Re, William C., and B. Raso, New York, N. Y. Single-sole shoe. 1,682,417; Aug. 28.
Read, Clyde M., Hollywood, Fla. Slug for cleaning castings. 1,682,246; Aug. 28.
Rebstock, Julius H., and W. Meyer, Centralia, Ill. Car brake. 1,682,092; Aug. 28.
Redman, Jacob A., Portland, Oreg. Advertisement holder. 1,682,093; Aug. 28.
Regan Safety Devices Company, Inc., The. (See Harwig, Carl G., assignor.)
Regan Safety Devices Company, The. (See Rosenzweig, Fred M., assignor.)
Regan Safety Devices Company, The. (See Shaver, Archibald G.)
Reid, Andrew S. (See Reid, Robert, and A. S.)
Reid, Ebenezer E. (See Dunning, F., and Reid.)
Reid, George C., Brooklyn, assignor to American Can Company, New York, N. Y. Container. 1,682,247; Aug. 28.
Reid, James, and G. R. Welch, assignors to Pierce, Butler & Pierce Manufacturing Corporation, Syracuse, N. Y. Valve cock. 1,682,248; Aug. 28.
Reid, James S., assignor, by mesne assignments, to The Eaton Axle & Spring Company, Cleveland, Ohio. Closure. 1,682,094; Aug. 28.
Reid, James S., assignor, by mesne assignments, to The Eaton Axle & Spring Company, Cleveland, Ohio. Bracing means for tubular filler members. 1,682,349; Aug. 28.
Reid, Robert and A. S., Beverly, Mass. Cutting machine. 1,68,418; Aug. 28.
Reinhard, Norman A., Rochester, N. Y. Convertible automobile table and cabinet. 1,682,145; Aug. 28.
Remington Arms Company. (See Loomis, Crawford C., assignor.)
Remington Rand Inc. (See Weiland, A., Russell, and Mezger, assignors.)
Remington Typewriter Company. (See Going, George G., assignor.)
Remington Typewriter Company. (See Hart, Frederick A., assignor.)
Resek, Marc. (See Chadwick, L. S., and Resek.)
Reyther, John, Ennis, Tex. Pan shield. 1,682,095; Aug. 28.
Richards, Earl M., Pittsburgh, Pa., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Ironing machine. 1,682,419; Aug. 28.
Riddle, Frank H., assignor, by mesne assignments, to Champion Porcelain Company, Detroit, Mich. Refractory ware. 1,682,249; Aug. 28.
Riddle, Frank H., assignor to Champion Porcelain Company, Detroit, Mich. Ceramic material. 1,682,250; Aug. 28.
Riddle, Frank H., assignor to Champion Porcelain Company, Detroit, Mich. Ceramic material. 1,682,251; Aug. 28.
Riebe, Carl, Dresden-Neustadt, Germany. Device for producing confectionery containing an aromatic liquid. 1,682,146; Aug. 28.
Riegle, Charles P., Milwaukee, Wis. Spare-tire carrier and rim spreader. 1,682,147; Aug. 28.
Rietzschel, A. Hch., G. m. b. H. (See Ziegler, Gustav, assignor.)
Ringler, William A., Philadelphia, assignor to The Individual Drinking Cup Company, Inc., Easton, Pa. Dispensing carton and paper cup therefor. 1,682,350; Aug. 28.
Ripley, Jasper N. (See De Zonia, Robert E., assignor.)
Rip Van Winkle Wall Bed Company. (See Sinclair, Neil, assignor.)
Risinger, Frank V., Lakewood, Ohio. Gas burner. 1,682,148; Aug. 28.
Ritter, Adolph L., Sifton, Wash. Cultivator and weeder. 1,682,538; Aug. 28.
Ritter, Julius, jr., assignor to Hartman Trunk Company, Racine, Wis. Trunk. 1,682,186; Aug. 28.
Robertson, William E., Berkeley, Calif. Pipe-bending machine. 1,682,149; Aug. 28.
Robinson, James, & Sons (Romiley) Ltd. (See Sydney, Ernest, assignor.)
Rockford Novelty Furniture Company. (See Bergman, Johan O., assignor.)
Rock Island Plow Company. (See Kaupke, Lee H., assignor.)
Rodanet, Charles H. H., Versailles, assignor to Societe Anonyme Etablissements Ed. Jaeger, Levallois, France. Electrical measuring instrument. 1,682,252; Aug. 28.
Rodery, Conoe C., Hornersville, Mo. Chair rocker. 1,682,685; Aug. 28.
Rogers, Alfred, Milton, Mass. Flush-valve housing. 1,682,351; Aug. 28.
Rohwedder, Otto F., Davenport, Iowa. Bread-fastening machine. 1,682,581; Aug. 28.
Rolf, Joseph H., Muncie, Ind., assignor to Gleason Works, Rochester, N. Y. Apparatus for feeding the lapping compound to gears. 1,682,420; Aug. 28.
Romanowicz, Johann. (See Romanowicz, Marian and J.)
Romanowicz, Marian and J., Vienna, Austria. Photographic film or plate pack. 1,682,628; Aug. 28.
Romero, Ireneo, and A. Costini, Calexico, Calif. Form and section for building walls. 1,682,253; Aug. 28.
Rorabacher, Claude, Detroit, Mich. Automatic electrically-operated door. 1,682,254; Aug. 28.
Rosen, Jessel. (See Parsons, C. A., and Rosen.)
Rosenbaum, Bruno, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Aerial conductor for wireless telegraphy and winding apparatus therefor. 1,682,421; Aug. 28.
Rosenblatt, Isidor, Brooklyn, N. Y. Wall bracket for lighting fixtures. Des. 76,202; Aug. 28.
Rosenzweig, Fred M., Brooklyn, assignor to The Regan Safety Devices Company, Inc., New York, N. Y. Train-control system. 1,682,422; Aug. 28.
Ross, Herbert O., St. Louis, Mo. File or rack for papers, documents, merchandise, and the like. 1,682,423; Aug. 28.
Ross, Irving W., Chicago, Ill. Stripping machine. 1,682,255; Aug. 28.
Rossi, Louis, assignor of one-half to F. A. Sanford, New York, N. Y. Dispensing device. 1,682,629; Aug. 28.
Roth, Ernest W., Los Angeles, Calif. Normal-pressure acid-sludge hydrolysis. 1,682,713; Aug. 28.
Royal Metal Lighting Fixture Co. (See Brown, Max, assignor.)
Rubber Service Laboratories Company, The. (See ter Horst, William P., assignor.)
Rush, Felix J., New York, N. Y. Book support. 1,682,053; Aug. 28.
Russell, Harold R. (See Weiland, A., Russell, and Mezger.)
Russell, Mark N., Syracuse, assignor to Pass & Seymour, Inc., Solvay, N. Y. Ceiling fixture. Des. 76,203; Aug. 28.
Rutherford, John, Slingerlands, assignor to The Embossing Company, Albany, N. Y. Spelling blocks. 1,682,686; Aug. 28.
Rychtarik, Richard, assignor to The Superior Foundry Company, Cleveland, Ohio. Aquarium stand. Des. 76,204; Aug. 28.
S. P. U. Corporation. (See Austin, Elias N., assignor.)
Saben, Henry C., Winthrop, Mass. Multiple-tray cabinet. 1,681,953; Aug. 28.
Sager Pen Corporation, The. (See Sager, Solomon M., assignor.)
Sager, Solomon M., Chicago, Ill., assignor to The Sager Pen Corporation. Fountain-pen clip. 1,681,954; Aug. 28.
Saginaw Manufacturing Co. (See Gilbert, Henry J., assignor.)
Sampson, Frank W., Atlanta, Ga. Concrete block or slab and making the same. 1,682,687; Aug. 28.
Sanford, Bert J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Shipping apparatus. 1,682,539; Aug. 28.
Sanford, Frank A. (See Rossi, Louis, assignor.)
Sargent, Frederick G., Westford, Mass. Increasing buoyancy. 1,692,630; Aug. 28.
Saunders, Henry C., Ontario, Calif. Fire-hydrant coupling. 1,682,187; Aug. 28.
Sayler, Gotthold Zittau, Germany. Hank of yarn and the like. 1,682,631; Aug. 28.

Scaife, Alan M., Pittsburgh, Pa., assignor to Wm. B. Scaife & Sons Company. Container. 1,681,955; Aug. 28.
Scaife, Wm. B., & Sons Company. (See Scaife, Alan M., assignor.)
Schaede, Henri, Liege, Belgium. Hydraulic brake. 1,682,308; Aug. 28.
Schaefer, George W., Quincy, Mass., assignor to Addressograph Company, Wilmington, Del. Printing and index device. 1,682,188; Aug. 28.
Schaeffer, Elmer H., Reading, Pa. Tire spreader. 1,682,632; Aug. 28.
Scharff, Adrian C., Orange, Conn. Smoker's stand. Des. 76,205; Aug. 28.
Scharff, Adrian C., Orange, Conn. Smoker's stand. Des. 76,206; Aug. 28.
Schatz, Herman A. (See Smith, William F., assignor.)
Scheln, Alexander E., New York, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Babbitted bearing. 1,682,189; Aug. 28.
Schein, Alexander E., Flushing, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Thrust bearing. 1,682,190; Aug. 28.
Schiesser, Max, assignor to Aktiengesellschaft Brown, Boveri and Cie., Baden, Switzerland. Centrifugal starter for electric motors. 1,682,424; Aug. 28.
Schlaich, Herman. (See Townsend, G. H., and Schlaich.)
Schlegelmilch, William M., assignor to Keller Printing Company, New York, N. Y. Clothing ticket. 1,682,540; Aug. 28.
Schmidt, Charles. (See Berry, W. G., Klein, and Schmidt.)
Schmidt, John E., Chicago, Ill. Equalizing mechanism for automobile brakes. 1,682,425; Aug. 28.
Schnabel, James F., assignor to The Clark Controller Company, Cleveland, Ohio. Electric-controller construction. 1,682,541; Aug. 28.
Schnelle, Omar H. (See Gusler, George T., and Schnelle.)
Schoefer, Charles F. (See Lang, J. T., and Schoefer.)
Schoenfeld, Morris, Zurich, Switzerland. Spool. 1,682,309; Aug. 28.
Schoolberg, Henry, Pittsburgh, Pa. Visible card-index record. 1,682,191; Aug. 28.
Schoolberg, Henry, Pittsburgh, Pa. Visible loose-leaf index and record. 1,682,192; Aug. 28.
Schoolberg, Henry, Pittsburgh, Pa. Loose-leaf-binder sheets and device for manipulating the same. 1,682,193; Aug. 28.
Schrader, Herman J., Atkinson, Nebr. Rail breaker. 1,682,633; Aug. 28.
Schussler, Walter H., assignor to The Schussler Tobacco Machine Company, Philadelphia, Pa. Tobacco blending and feeding mechanism. 1,682,542; Aug. 28.
Schussler Tobacco Machine Company, The. (See Schussler, Walter H., assignor.)
Schütte, Johann C. F. A., Altdorf, Switzerland. Apparatus for producing sheets and similar article electrolytically. 1,682,426; Aug. 28.
Schwab, Jules, assignor to Societe Thermosonus, Paris, France. Automatic fire-protection door or screen. 1,682,634; Aug. 28.
Schwabe, Rudolf. (See Bockmühl, M., Schwabe, and Ehrhart.)
Schwartz, Henry. (See Schwartz, Saul, assignor.)
Schwartz, Saul, assignor to H. Schwartz, Chicago, Ill. Container. 1,682,427; Aug. 28.
Schwarz, Henry G., Denver, Colo. Clarifier and thickner. 1,682,256; Aug. 28.
Schweigert, William F., Buffalo, N. Y. Sheet-metal container. 1,682,096; Aug. 28.
Scovill Manufacturing Co. (See Husvar, Vincent, assignor.)
Screw Machine Products Corporation, The. (See Cavanagh, John F., assignor.)
Seabury, Richard W. (See Ballantine, S., and Seabury.)
Seidell, Alfred P., Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co. Arm for wall brackets or the like. Des. 76,207; Aug. 28.
Seitz, Oskar, assignor to Brown, Boveri & Cie, Baden, Switzerland. Mercury-vapor rectifier. 1,682,428; Aug. 28.
Selah, Howard A., assignor to Erie Malleable Iron Company, Erie, Pa. Container-cover construction. 1,682,194; Aug. 28.
Self Seal Pressure Cooker Co. (See Vischer, Alfred, jr., assignor.)
Serpas, Ernest J., assignor of two-fifths to J. S. Waterman, jr., New Orleans, La. Automatic lubricating mechanism. Re17,073; Aug. 28.
Shakeshaft, Frederick W., Rochester, N. Y. Combination gauge for mechanics. 1,682,310; Aug. 28.
Shanks, John N., assignor to Empire Thresher Co., Post Falls, Idaho. Self-loading vehicle. 1,682,352; Aug. 28.
Shaver, Archibald G., Chicago, Ill., assignor to The Regan Safety Devices Company, Inc., New York, N. Y. Circuit-controlling means. 1,672,429; Aug. 28.
Shaw, George R. (See Parks, F. M., and Shaw.)
Shaw, Harold F., assignor to F. A. Whitney Carriage Company, Leominster, Mass. Seat construction for baby carriages. 1,682,714; Aug. 28.
Shaw, Wesley J., assignor to New England Wood Heel Co., Haverhill, Mass. Wood-heel block clamp. 1,682,022; Aug. 28.
Shean, Joseph W., Spearville, Kans. Automatic gate mechanism for railway crossings. 1,682,353; Aug. 28.
Sheehan, George F., Seattle, Wash. Fuel briquette. 1,682,195; Aug. 28.
Shefveland, Rudolph A., assignor of one-half to M. M. Kelliher, Spokane, Wash. Seating and unseating tools. 1,682,097; Aug. 28.
Shenfer, Claudius, Moscow, Russia. Rotor winding for asynchronous motors without starters. 1,682,430; Aug. 28.
Sheperdson, John W., executor. (See Sheperdson, William T.)
Sheperdson, William T., deceased, Paxton, Mass.; J. W. Sheperdson, executor. Horseshoe and calk. 1,682,688; Aug. 28.
Shipley, Bernis M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,682,196; Aug. 28.
Shipley, Bernis M., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,682,197; Aug. 28.
Shriner, Robert L., Weehawken, N. J., assignor to Hudson Heating Systems, Inc., New York, N. Y. Making electrical heaters. 1,682,956; Aug. 28.
Shue, John L., Shawnee, Okla. Batch hopper for concrete material. 1,682,354; Aug. 28.
Siemens & Halske, Aktiengesellschaft Wernerwerk. (See Waschnack, Adolf, assignor.)
Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Hanff, Ferdinand, assignor.)
Silica Gel Corporation, The. (See Patrick, Walter A., assignor.)
Simmons, James O., sr. (See Morrison, L., and Simmons.)
Simplex Equipment Company. (See Creveling, John L., assignor.)
Simplex Player Action Company. (See White, Frank C., assignor.)
Sinclair, Neil, assignor to Rip Van Winkle Wall Bed Company, Inc., Oakland, Calif. Folding bed. 1,682,023; Aug. 28.
Sitton, Eugene N., assignor to Pendleton Manufacturing Co., Autun, S. C. Laundry bag with improved selvage and making same. 1,682,198; Aug. 28.
Sklarek, Clifford, Chicago, Ill., assignor to International Spotlight Corporation. Drill-guiding jig. 1,682,150; Aug. 28.
Skowron, Edmund A. (See Brooks, J. T., and Skowron.)
Sloan, Charles F., Philadelphia, Pa. Loom temple. 1,682,582; Aug. 28.
Smillie, Robert H., Oakland, Calif. Tennis racket. 1,682,199; Aug. 28.
Smith, A. B. (See Vest, Clarence D., assignor.)
Smith, A. O., Corporation. (See Burgess, Edward W., assignor.)
Smith, Andrew, Milwaukee, Wis. Chip-finishing machine. 1,682,431; Aug. 28.
Smith, August J., Chicago, Ill. Molding pattern. 1,681,957; Aug. 28.
Smith, Charles E., Three Rivers, Tex. Pipe coupling. 1,682,635; Aug. 28.
Smith, Clarence L., assignor to The Franklin Printing Company, Tampa, Fla. Rubber stamp. 1,681,999; Aug. 28.
Smith, Ervin E., Canton, Ohio. Highway danger signal. Des. 76,208; Aug. 28.
Smith, Goldwin, Tampa, Fla. Mechanical baseball game. 1,682,636; Aug. 28.
Smith, Hosea C., Pine Bluff, Ark. Tool. 1,682,637; Aug. 28.
Smith, Walter H., Wilkinsburg, Pa., assignor to Westinghouse Electric Company. Control apparatus. 1,682,432; Aug. 28.
Smith, Walter S., Columbus, Ohio. Scale. 1,682,355; Aug. 28.
Smith, William F., Brooklyn, assignor of one-half to H. A. Schatz, Poughkeepsie, N. Y. Tractor for agricultural implements. 1,682,311; Aug. 28.
Smoot, Charles H., Maplewood, N. J. Apparatus for regulating the composition of mixed gases. 1,682,689; Aug. 28.
Societe Anonyme Etablissements Ed. Jaeger. (See Rodanet, Charles H. H., assignor.)
Societe Anonyme Francaise Du "Ferodo." (See Bluhm, Alexandre, assignor.)
Societe Thermosonus. (See Schwab, Jules, assignor.)
Solar Refining Company, The. (See Cory, J. M., and Bunke, assignors.)
Soldane, Lloyd A. T., Grenada, Calif. Mileage route chart. 1,682,151; Aug. 28.
Solomon, Cecil J., New York, N. Y. Mechanism for stretching sheets of material. 1,682,356; Aug. 28.
Sonnek, Pierre F., Woodhaven, N. Y. Electric-circuit-controlling means. 1,682,098; Aug. 28.
Southwestern Sales Corporation. (See Mann, James H., jr., assignor.)
Soyez, Friedrich, Mannheim, assignor to Zelistoffabrik Waldhof, Mannheim-Waldhof, Germany. Centrifugal sorting apparatus. 1,682,099; Aug. 28.
Spencer, Henry R., Jamestown, N. Y., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Telephone apparatus. 1,682,433; Aug. 28.
Spengler, Oskar, and A. Thurm, Dessau in Anhalt, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of condensation products containing sulphur. 1,682,434; Aug. 28.
Sperry Development Company. (See Sperry, Elmer A., assignor.)

Sperry, Elmer A., Brooklyn, N. Y., assignor to Sperry Development Company, Dover Green, Del. Internal-combustion-engine cylinder. 1,682,357; Aug. 28.
Sperry, Elmer A., Brooklyn, N. Y., assignor to Sperry Development Company, Dover Green, Del. Combustion-engine drive for ships. 1,682,358; Aug. 28.
Sperry Gyroscope Company, The. (See Schein, Alexander E., assignor.)
Spitzer, Alexander, Brooklyn, N. Y. Sample tab. 1,682,583; Aug. 28.
Splitdorf Electrical Company. (See Nowosielski, Edward, B., assignor.)
Spooner, Thomas, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Magnetic analysis of drills. 1,682,435; Aug. 28.
Sprado, Carl G., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Engine cylinder. 1,682,436; Aug. 28.
Sprado, Carl G., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Circulating system. 1,682,437; Aug. 28.
St. Louis Label Works. (See Cowgill, Orph W., assignor.)
Standard Corset Company, The. (See Von Halle, Millard, assignor.)
Stead Rail Anchors, Incorporated. (See Cooper, Francis W., assignor.)
Steel, Edwin de H., assignor to Steel & Wikse Company, Philadelphia, Pa. Mounting mirrors and the like. 1,682,584; Aug. 28.
Steel & Wikse Company. (See Steel, Edwin de H., assignor.)
Stevens, William C., and H. J. Taylor, Milwaukee, Wis., assignors, by mesne assignments, to Vulcan Motor Devices Company. Gear-shifting mechanism. 1,682,024; Aug. 28.
Stevenson, George E., Indianapolis, Ind. Steel door. 1,681,958; Aug. 28.
Stewart, Laurence G., St. Louis, Mo. Ring. Des. 76,209; Aug. 28.
Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Manufacturing note sheets. 1,682,690; Aug. 28.
Straight, Halver R., Adel, Iowa. Forming ceramic wares. 1,682,200; Aug. 28.
Straub, Francis J., New Kensington, Pa. Making concrete building blocks. 1,682,359; Aug. 28.
Straub, Francis J., New Kensington, Pa. Building block. 1,682,360; Aug. 28.
Strobl, Hans, Berlin-Tempelhof, assignor, by mesne assignments, to Luftschiffbau Zeppelin G. m. b. H., Friedrichshafen, Bodensee, Germany. Airship. 1,682,025; Aug. 28.
Strong, Eugene H., Pearsall, Tex. Safety device for lubricating systems. 1,682,257; Aug. 28.
Stoewener, Fritz. (See Wietzel, G., and Stoewener.)
Struthridge, James H., and T. M. Huck, Johannesburg, Transvaal, South Africa. Supplying water to rock drills and the like. 1,682,438; Aug. 28.
Submarine Signal Company. (See Hayes, H. C., and Mason, assignors.)
Submarine Signal Company. (See Mason, Max, assignor.)
Submarine Signal Company. (See Pierce, George W., assignor.)
Submarine Signal Company. (See Williams, Robert L., assignor.)
Sullivan, Daniel J., Tulsa, Okla. Safety hoisting device. 1,682,439; Aug. 28.
Superior Foundry Company, The. (See Rychtarik, Richard, assignor.)
Sutfin, Willis A., Marysville, Calif. Auto camp bed. 1,682,440; Aug. 28.
Swan, Judge, Detroit, Mich. Left-hand-turn light. 1,682,638; Aug. 28.
Swan Metallic Seal & Cap Company. (See Tevander, Swan N., assignor.)
Sydney, Ernest, London, assignor to James Robinson & Sons (Romiley) Ltd., Stockport, England. Hydraulic and other press. 1,682,312; Aug. 28.
Szelinski, Reinhold, Rietberg, Germany. Automatic railway coupling. 1,682,152; Aug. 28.
Tait, Edward B., Colchester, England. Rotary pump. 1,682,258; Aug. 28.
Tancill, Grace, St. Louis, Mo. Dress. Des. 76,210; Aug. 28.
Taub, Alex, Detroit, Mich. Transmission. 1,682,441; Aug. 28.
Taylor, Edward M., assignor to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,682,673; Aug. 28.
Taylor, Ernest C. (See Judd, R. M., Taylor, and McNaney.)
Taylor, Ernest C. (See Judd, R. M., Taylor, and Worth.)
Taylor, Herman J. (See Stevens, W. C., and Taylor.)
Taylor, William H., Anna, Ill. Peach sizing machine. 1,682,054; Aug. 28.
Taylor-Wharton Iron and Steel Company. (See Angerer, Victor, assignor.)
Temple, Fred W., Cicero, assignor of one-half to W. P. Crockett, Chicago, and one-fourth to A. Marchev, Cicero, Ill. Core for casting amplifying horns. 1,682,691; Aug. 28.
Templeman, G. Farris, Lexington, Ky. Blasting paper. 1,682,639; Aug. 28.
Ter Horst, William P., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Manufacturing vulcanized rubber and the product obtained thereby. 1,682,728; Aug. 28.
Ter Horst, William P., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Vulcanized-rubber product and producing same. 1,682,729; Aug. 28.
Tevander, Swan N., Maywood, Ill., assignor to Swan Metallic Seal & Cap Company. Hand machine for sealing caps to jars and cans. 1,681,959; Aug. 28.
Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Pivot retainer. 1,682,442; Aug. 28.
Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resistance microphone and operating the same. 1,682,443; Aug. 28.
Thompson, George L., New York, N. Y., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Gulley for pocket-billiard tables. 1,682,201; Aug. 28.
Thompson, Robert J., Baton Rouge, La. Ironing-board cabinet. 1,682,640; Aug. 28.
Thorpe Brothers Well Company. (See Thorpe, Thomas W. and G. E., assignors.)
Thorpe, George E. (See Thorpe, Thomas W. and G. E.)
Thorpe, Thomas W. and G. E., assignors to Thorpe Brothers Well Company, Des Moines, Iowa. Concrete well strainer. 1,682,697; Aug. 28.
Thurm, Alfred. (See Spengler, O., and Thurm.)
Tingwall, Egon F. (See Nelson, E. H., and Tingwall.)
Toenniessen, Ernst, Tubingen, Germany. Wheel for pressing the empty tubes upon the spindles of spinning and doubling frames. 1,682,155; Aug. 28.
Toenniessen, Ernst, Tubingen, Germany. Pressing-off device for tubes and yarn bodies of spinning and doubling frames. 1,682,156; Aug. 28.
Toledo Scale Company. (See Thomas, Edward G., assignor.)
Topham, Laurence E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for effecting systematic irregularities in the reproduction of objects. 1,681,960; Aug. 28.
Townsend, George H., Greenwich, Conn., and H. Schlaich, Long Island City, N. Y. Radiator cap. 1,682,641; Aug. 28.
Tracey, Leslie J., and H. H. Quall, Stockton, Calif. Identification. 1,682,153; Aug. 28.
Trautman, Raymond B. (See Kosek, J. H., and Trautman.)
Trolander, Elmer W. (See Miner, C. S., and Trolander.)
Trumpler, William E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Flexible coupling. 1,682,444; Aug. 28.
Trusogram Corporation. (See Bergman, Arthur, assignor.)
Tuck, Edward G. (See Bryant, A. H., and Tuck.)
Tucker Brothers Manufacturing Company. (See Tucker, J. D., and Oldham, assignor.)
Tucker, Jesse D., Sacramento, and F. C. Oldham, Yuba City; said Tucker assignor to Tucker Brothers Manufacturing Company, Sacramento, Calif. Tree-supporting yoke. 1,682,445; Aug. 28.
Tuco Products Company, The. (See Chamberlain, Harold B., assignor.)
Tufts, Lesley R., East Cleveland, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Folding machine. 1,682,446; Aug. 28.
Turner, Charles H., Statesville, N. C. Attachment for tractors. 1,682,313; Aug. 28.
Turner Tanning Machinery Company, The. (See Brophy, J. J., and Broughton, assignors.)
Union Switch & Signal Company, The. (See Failor, Charles W., assignor.)
Union Switch & Signal Company. (See McCann, Ronald A., assignor.)
United Shoe Machinery Corporation. (See Bertrand, Frederic E., assignor.)
United Shoe Machinery Corporation. (See Cosgrove, John W., assignor.)
United Shoe Machinery Corporation. (See Hardie, John C., assignor.)
United Shoe Machinery Corporation. (See Topham, Laurence E., assignor.)
United Shoe Machinery Corporation. (See Warren, George E., assignor.)
United States Cast Iron Pipe and Foundry Company. (See Ladd, James B., assignor.)
United States Nitro Co., The. (See Hennen, Earl C., assignor.)
Vanderkieft, Nicholas, et al. (See Whitcomb, L. Kay, jr., and Vanderkieft.)
Van der Pol, Balthazar, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Incandescent cathode. 1,682,642; Aug. 28.
Van House, Alanson C., Oakland, Calif. Push-button faucet. 1,682,154; Aug. 28.
Van Osdel, William J., Chicago, Ill. Clipper. 1,682,447; Aug. 28.
Varoutsos, George J., Lowell, Mass. Signal-operating means. 1,682,643; Aug. 28.
Vaughan, Victor G., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,682,448; Aug. 28.
Vaughn, Stanley I., Hempstead, N. Y., assignor to Curtiss Aeroplane & Motor Company, Inc. Beam. 1,682,202; Aug. 28.
Vest, Clarence D., assignor to A. B. Smith, San Francisco, Calif. Display box. 1,682,449; Aug. 28.
Vezie, Melbourne E., Cushing, Okla. Oil burner. 1,682,644; Aug. 28.

Vincent, Eugene T., Boston, Mass. Thermostat mounting. Des. 76,211; Aug. 28.
Vischer, Alfred, jr., Floral Park, N. Y., assignor to Self Seal Pressure Cooker Co., New York, N. Y. Pressure cooker. 1,682,203; Aug. 28.
Vollmer, Milton D., Willow City, N. Dak. Game apparatus. 1,682,645; Aug. 28.
Von Halle, Millard, Palisades Park, N. J., assignor to The Standard Corset Company, New York, N. Y. Boning for flexible materials. 1,682,361; Aug. 28.
Von Halle, Millard, Palisades Park, N. J., assignor to The Standard Corset Company, New York, N. Y. Sewing. 1,682,362; Aug. 28.
Voss, Arthur. (See Kränzlein, G., Voss, and Brunnträger.)
Vreeland, Frederick K., Montclair, N. J. Prevention of interference in radioreception. 1,682,026; Aug. 28.
Vulcan Motor Devices Company. (See Stevens, W. C., and Taylor, assignors.)
Wadsworth Watch Case Company, The. (See Otten, Lawrence F., assignor.)
Wait, William, jr., assignor, by mesne assignments, to Curtiss Aeroplane and Motor Company, Inc., Garden City, N. Y. Aeroplane radiator. 1,682,204; Aug. 28.
Waite, Harry F., New York, N. Y. High-tension electric valve. 1,682,730; Aug. 28.
Walker, Russell S., Duluth, Minn., assignor to Information Cabinet Company, St. Louis, Mo. Display cabinet. Des. 76,212; Aug. 28.
Wallace, William S., et al., trustees. (See Davis, Kenneth, assignor.)
Waller, Anthony E., Providence, R. I. Pin-stem joint. 1,682,585; Aug. 28.
Wallin, Gustaf E., and E. G. Masengarb, Omaha, Nebr., assignors to Chicago Lino-Tablet Company, Chicago, Ill. Rule-punching mechanism. 1,682,516; Aug. 28.
Walton, Robert E., Tacoma, Wash. Clamping device for valve-seat reamer pilots. 1,682,314; Aug. 28.
Wanninger, Curt K., and H. Hofmann, Bronxville, N. Y. Belt buckle. 1,682,450; Aug. 28.
Ward, Charles H. (See Manson, T. M., and Ward.)
Warren, George E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel. 1,681,961; Aug. 28.
Waschnack, Adolf, Neu Finkenkrug, assignor to Siemens & Halske Aktiengesellschaft Wernerwerk, Siemensstadt, near Berlin, Germany. Telephone system. 1,682,055; Aug. 28.
Washburn Company, The. (See Andrews, Arthur G., assignor.)
Wassener, William, Grand Rapids, Mich. Casement adjuster. 1,682,205; Aug. 28.
Waterman, J. S., jr. (See Serpas, Ernest J., assignor.)
Watrous, Clifford M., assignor to Gong Bell Manufacturing Company, East Hampton, Conn. Toy wheel. 1,682,715; Aug. 28.
Watson, John Warren, Wayne, Pa. Spring shackle. 1,682,586; Aug. 28.
Watt, William R. H. (See De Arnold, W. C., and Watt.)
Webber, Robert D. J. B., Allentown, Pa. Brake-beam support. 1,682,647; Aug. 28.
Weber, Gustav, Cologne-on-the-Rhine, Germany. Machine for producing wood screws from pressed blanks. 1,682,646; Aug. 28.
Weber, William L., Chicago, Ill. Polishing metal surfaces. 1,682,157; Aug. 28.
Weed, Josephine M., New York, N. Y. Toilet-seat cover. 1,682,648; Aug. 28.
Welland, Alfred, Neshanic, N. J., H. R. Russell, Douglaston, N. Y., and C. A. Mezger, New Brunswick, N. J., assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y. Typewriter-key punch. 1,682,451; Aug. 28.
Welch, George R. (See Reid, J., and Welch.)
Weller, John L., Hamilton, Ontario, Canada. Grindstone and making same. 1,682,649; Aug. 28.
Welsh, James W., Providence, R. I., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,682,650; Aug. 28.
Wensley, Roy J., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic substation. 1,682,452; Aug. 28.
Wenz, Joseph M., assignor to Home Comfort Heater Company, Philadelphia, Pa. Oil burner. 1,682,587; Aug. 28.
Wenzl, Philip H., Valley Falls, Kans. Engine crank-shaft and connecting-rod construction. 1,682,315; Aug. 28.
Westby, Nickolay, St. Paul, Minn. Door-operating device. 1,681,962; Aug. 28.
Western Gas Construction Company. (See Hayes, Fred B., assignor.)
Westinghouse Air Brake Company, The. (See Cheviliot, Alfred, assignor.)
Westinghouse Electric & Manufacturing Company. (See Allen, George Y., assignor.)
Westinghouse Electric & Manufacturing Company. (See Allen, Robert C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Austin, Bascum O., assignor.)
Westinghouse Electric & Manufacturing Company. (See Breisch, E. W., and Falknor, assignors.)
Westinghouse Electric & Manufacturing Company. (See Ehrenfeld, Ralph, assignor.)
Westinghouse Electric & Manufacturing Company. (See Falknor, Frank B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Foresman, Robert A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gano, Harlan S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Getz, Benjamin E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hanna, Clinton R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Harvey, Albert L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hodgkinson, Francis, assignor.)
Westinghouse Electric & Manufacturing Company. (See Houston, Harold A., assignor.)
Westinghouse Electric & Manufacturing Company. (See King, Harvey, assignor.)
Westinghouse Electric & Manufacturing Company. (See Kintzing, Reese T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lincoln, Rollo B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Matthews, Howard D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Miller, H. C., and Mottlau, assignors.)
Westinghouse Electric & Manufacturing Company. (See Mottlau, August J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Nyman, Alexander, assignor.)
Westinghouse Electric & Manufacturing Company. (See Parks, F. M., and Shaw, assignors.)
Westinghouse Electric & Manufacturing Company. (See Richards, Earl M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rosenbaum, Bruno, assignor.)
Westinghouse Electric & Manufacturing Company. (See Smith, Walter H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Spooner, Thomas, assignor.)
Westinghouse Electric & Manufacturing Company. (See Thomas, Phillips, assignor.)
Westinghouse Electric & Manufacturing Company. (See Trumpler, William E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Vaughan, Victor G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wensley, Roy J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Zworykin, Vladimir K., assignor.)
Wheary, George H., assignor to Wheary Trunk Co., Racine, Wis. Baggage carrier. 1,682,056; Aug. 28.
Wheary, George H., assignor to Wheary Trunk Company, Racine, Wis. Baggage carrier. 1,682,057; Aug. 28.
Wheary Trunk Co. (See Wheary, George H., assignor.)
Whitcomb, Louis K., jr., and N. Vanderkieft, Chicago, Ill. Hydraulic gate. 1,682,206; Aug. 28.
White, Frank C., Meriden, Conn., assignor, by mesne assignments, to Simplex Player Action Company Incorporated, New York, N. Y. Player piano. 1,682,651; Aug. 28.
White, Starley, Stuttgart, Ark. Well seal. 1,682,543; Aug. 28.
Whitney, F. A., Company. (See Shaw, Harold F., assignor.)
Whitney, Lyman F., Boston, and W. E. Whitney, Newton, assignors, by mesne assignments, to Rajet Company, Boston, Mass. Impregnated material and treating the same. 1,682,652; Aug. 28.
Whitney, William E (See Whitney, L. F. and W. E.)
Wicks, John, Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,682,100; Aug. 28.
Wietzel, Gustav, and F. Stoewener, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of dry gases. 1,682,588; Aug. 28.
Wilden, Albert, Cologne, Germany. Identity card holder. 1,682,259; Aug. 28.
Willard, Theodore A., Cleveland, Ohio, and F. S. McCullough, Wilkinsburg, Pa. Rectification of alternating currents. 1,682,000; Aug. 28.
Willheim, Arpad, Passaic, N. J. Process and apparatus for treating fabrics. 1,682,453; Aug. 28.
Williams, John W., Buffalo, N. Y. Muffler. 1,682,316; Aug. 28.
Williams, Robert L., Newton, Mass., assignor to Submarine Signal Company, Portland, Me. Magnetophone. 1,681,963; Aug. 28.
Williams, William M., assignor to B. F. Gump Co., Chicago, Ill. Coffee-cutting machine. 1,682,454; Aug. 28.
Williamson, Earle, Chicago, Ill. Temporary type-page lock. 1,682,698; Aug. 28.
Williamson, R., & Company. (See Williamson, Richard, assignor.)
Williamson, Richard, assignors to R. Williamson & Company, Chicago, Ill. Lighting-fixture shade. Des. 76,213; Aug. 28.
Willis, Bernard D., Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone trunk circuits. 1,682,101; Aug. 28.
Willis, Bernard D., Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Multioffice telephone system. 1,682,158; Aug. 28.
Willis, Bernard D., Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Multioffice telephone system. 1,682,159; Aug. 28.

Willys-Overland Company, The. (See Edwards, Henry J., assignor.)
Wilson, Mary R. H., Alexandria, La. Hair-waving device. 1,682,455; Aug. 28.
Winans, Daniel M., Binghamton, assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Control shutter for engine radiators. 1,682,716; Aug. 28.
Winthrop Chemical Company. (See Bockmühl, M., Schwabe, and Ehrhart, assignors.)
Wood, Franz J., Des Moines, Iowa. Thrashing machine. 1,682,207; Aug. 28.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Core for stereotype-plate-casting boxes. 1,682,160; Aug. 28.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Stereotyping plant. 1,682,161; Aug. 28.
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Worth, Joseph. (See Judd, R. M., Taylor, and Worth.)
Worthington, James R., East Croydon, assignor to said Worthington and Creed & Company Limited, Croydon, England. Telegraphic receiving apparatus. 1,682,162; Aug. 28.
Wrabek, Frank M., Le Sueur Center, Minn. Milking machine. 1,682,001; Aug. 28.
Wunder, Milton B., assignor to Milton B. Wunder Company, Philadelphia, Pa. Lamp shade. Des. 76,214; Aug. 28.
Wunder, Milton B., Company. (See Wunder, Milton B., assignor.)
Yale & Towne Manufacturing Company, The. (See Heyer, Frederic K., assignor.)
Yarwood, William A., Buffalo, N. Y. Automatic stoker. 1,682,002; Aug. 28.
Yerk, Henry H. (See Baumberger, W. J., and Yerk.)
Yerk, Henry H., and W. J. Baumberger, Davenport, assignors to Micro Machine Company, Bettendorf, Iowa. Work support. 1,682,456; Aug. 28.
Young, Clarence H., Boston, Mass. Receptacle. 1,682,028; Aug. 28.
Young, Marvin S., Scarsdale, and A. Novick, Flushing, N. Y., said Novick assignor to said Young. Combination inflow-controlling and fluid-discharge means. 1,682,544; Aug. 28.
Young, Robert, New York, N. Y. Attachment for spectacles. 1,681,964; Aug. 28.
Zeidler Economy Spring Pad Co. (See Zeidler, William A., assignor.)
Zeidler, William A., New York, N. Y. Balanced-toggle valve. 1,681,966; Aug. 28.
Zeidler, William A., assignor to Zeidler Economy Spring Pad Co., Inc., New York, N. Y. Pad for mangle rollers, ironing boards, and the like. 1,681,965; Aug. 28.
Zelistoffabrik Waldhof. (See Soyes, Friedrich, assignor.)
Ziegler, Gustav, assignor to A. Ich. Rietzschel G. m. b. H., Munich, Germany. Photographic camera. 1,682,260; Aug. 28.
Zimmerman, Paul G., and B. V. Korvin-Kroukovsky, Keyport, N. J., assignors, by mesne assignments, to Healey-Aeromarine Bus Company, Inc. Folding top for flying boats. 1,682,027; Aug. 28.
Zinn, Reinhold, Cleveland, Ohio. Combination scraper and joiner. 1,682,545; Aug. 28.
Zorn, John B., Kansas City, Mo. Duster and wash stick. 1,681,967; Aug. 28.
Zworykin, Vladimir K., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Making resistance devices. 1,682,547; Aug. 28.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 28TH DAY OF AUGUST, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Acid esters, Manufacture of hydroxy. H. W. Matheson and K. G. Blaikie. 1,682,347; Aug. 28.
Acid, Preparing alkyl esters of abietic. A. C. Johnston. 1,682,280; Aug. 28.
Acid sludge and spent clay in oil-refining plants, Disposing of. J. M. Cory and F. H. Bunke. 1,682,369; Aug. 28.
Acid-sludge hydrolysis, Normal-pressure. E. W. Roth. 1,682,713; Aug. 28.
Acids, Production of primary stibinic. F. Dunning and E. E. Reid. 1,682,269; Aug. 28.
Advertisement carrier. A. Deutschmeister. 1,682,167; Aug. 28.
Air brake. C. A. Campbell. 1,682,482; Aug. 28.
Air-conditioning apparatus. C. A. Bangert. 1,682,546; Aug. 28.
Aircraft. J. Bilbao. 1,682,263; Aug. 28.
Air generator, Hot-. H. W. Allen. 1,682,102; Aug. 28.
Airship. H. Strobl. 1,682,025; Aug. 28.
Airship, Nonrigid. H. Naatz. 1,682,405; Aug. 28.
Anchor, Rail. J. T. Brooks and E. A. Skowron. 1,682,478; Aug. 28.
Anchor, Rail. F. W. Cooper. 1,682,370; Aug. 28.
Alarm circuit. J. F. Meyers. 1,682,049; Aug. 28.
Aligning device, Table-leaf-. A. J. Belrose. 1,682,210; Aug. 28.
Aluminum containing minerals, Treating. W. G. Bjorkstedt. 1,681,921; Aug. 28.
Anchor, Gas. C. A. Carlson. 1,682,114; Aug. 28.
Anchor, Rail. J. A. Evans. 1,682,218; Aug. 28.
Animal trap. W. A. Gibbs. 1,682,612; Aug. 28.
Annunciator. O. Hamlin. 1,682,332; Aug. 28.
Aquarium stand. R. Rychtarik. Des. 76,204; Aug. 28.
Arm rest, Movable. J. Finn. 1,682,071; Aug. 28.
Artificial material and making same. L. Lilienfeld. 1,682,293; Aug. 28.
Attrition mill. R. S. Iglehart. 1,682,128; Aug. 28.
Automatic gate, Railway. M. J. Kovacs. 1,682,573; Aug. 28.
Automobile extricating mechanism. R. Jones. 1,682,284; Aug. 28.
Automobile jack. F. C. Casey. 1,682,066; Aug. 28.
Automobile signal, Window-mounted. S. A. Gaede. 1,682,173; Aug. 28.
Bag: *See*
Garment bag. Kit bag.
Bag-separating apparatus. C. H. Hartman and L. H. Hartman. 1,682,276; Aug. 28.
Bag with improved selvage and making same, Laundry. E. N. Sitton. 1,682,198; Aug. 28.
Baggage carrier. G. H. Wheary. 1,682,056–7; Aug. 28.
Ball game apparatus. J. A. Eklund. 1,682,170; Aug. 28.
Bar: *See*—
Doctor bar.
Barrel. T. E. Murray. 1,682,403; Aug. 28.
Beam. S. I. Vaughn. 1,682,202; Aug. 28.
Bearing, Babbitted. A. E. Schein. 1,682,189; Aug. 28.
Bearing, Side. J. F. O'Connor. 1,682,019; Aug. 28.
Bearing, Thurst. A. E. Schein. 1,682,190; Aug. 28.
Bed, Auto camp. W. A. Sutfin. 1,682,440; Aug. 28.
Bed, Folding. N. Sinclair. 1,682,023; Aug. 28.
Beds, Companion. H. B. Littlefield. 1,682,577; Aug. 28.
Beetle trap. B. Leon and M. Fow. 1,682,575; Aug. 28.
Belt-drive mechanism. S. A. Dobyne. 1,682,217; Aug. 28.
Bench leg, Collapsible. G. F. Goding. 1,682,671; Aug. 28.
Binder, Loose-leaf. F. G. Bevans. 1,682,108; Aug. 28.
Binder sheets and device for manipulating the same, Loose-leaf. H. Schoolberg. 1,682,193; Aug. 28.
Bituminous composition, Semiliquid. J. H. Amies. 1,682,589; Aug. 28.
Block: *See*—
Building block. Sheave block.
Mailing block. Spelling block.
Block clamp, Wood-heel-. W. J. Shaw. 1,682,022; Aug. 28.
Boats, Folding top for flying. P. G. Zimmermann and B. V. Korvin-Kroukovsky. 1,682,027; Aug. 28.
Boiler: *See*—
Locomotive boiler. Superheater boiler.
Boiler cleaner. H. C. Heaton. 1,682,278; Aug. 28.
Booth, Paint-spray. E. H. Nelson and E. F. Tingwall. 1,682,407; Aug. 28.
Boning for flexible materials. M. Von Halle. 1,682,361; Aug. 28.
Bookholder, Adjustable. R. W. Banks. 1,682,060; Aug. 28.
Bottle. F. J. de S. Coty. Des. 76,180; Aug. 28.
Bottle closure. H. DeWallace. 1,681,976; Aug. 28.
Bottles, Means relating to the manufacture of rubber water. H. A. Hands. 1,682,223; Aug. 28.
Box: *See*—
Display box.
Box J. G. Lander. 1,681,940; Aug. 28.
Box-making machines, Blanking and transferring mechanism for. O. W. Cowgill. 1,681,928; Aug. 28.
Bracelet and like articles of jewelry, Expanding. A. Downes. 1,682,607; Aug. 28.
Bracing means for tubular filler members. D. F. Brawn. 1,682,367; Aug. 28.
Bracing means for tubular filler members. J. S. Reid. 1,682,349; Aug. 28.
Bracket for lighting fixtures, Wall. I. Rosenblatt. Des. 76,202; Aug. 28.
Brackets or the like, Arm for wall. A. P. Seidell. Des. 76,207; Aug. 28.
Brake: *See*—
Air brake. Fluid-pressure brake.
Car brake. Hydraulic brake.
Brakes and the like, Facing member for. A. Blubm. 1,682,319; Aug. 28.
Brakes, Equalizing mechanism for automobile. J. E. Schmidt. 1,682,425; Aug. 28.
Broach. W. C. Hollister and L. M. Chapman. 1,682,515; Aug. 28.
Brush, Fountain soap. F. H. Basset. 1,682,470; Aug. 28.
Brushlike implement for painting with liquid substances. E. Blank. 1,682,657; Aug. 28.
Buckle, Belt. W. Dieterich. Des. 76,182; Aug. 28.
Buckle, Belt. R. F. Eichner. Des. 76,183–4; Aug. 28.
Buckle, Belt. C. K. Wanninger, and H. Hofmann. 1,682,450; Aug. 28.
Buffing mechanism. J. F. O'Connor. 1,682,021; Aug. 28.
Building block. M. Polacoff. 1,682,414; Aug. 28.
Building block. F. J. Straub. 1,682,360; Aug. 28.
Building, Subterranean. C. B. Lawton. 1,682,679; Aug. 28.
Bumper, Automobile. W. E. Hart. 1,682,507; Aug. 28.
Buoyancy, Increasing. F. G. Sargent. 1,692,630; Aug. 28.
Burner: *See*—
Gas burner. Oil burner.
Button-assembling device. M. Menkin. 1,682,301; Aug. 28.
Button clamp. H. W. Morris. 1,681,948; Aug. 28.
Cabinet, Display. R. S. Walker. Des. 76,212; Aug. 28.
Cabinet, Ironing-board. R. J. Thompson. 1,682,640; Aug. 28.
Cabinet, Multiple-tray. H. C. Saben. 1,681,953; Aug. 28.
Cabinet, Optician's. J. A. Miner. 1,682,695; Aug. 28.
Cables, Protecting electric and other. J. O. Gogry. 1,682,076; Aug. 28.
Camera, Photographic. G. Ziegler. 1,682,260; Aug. 28.
Candy jar. R. G. Peck and A. Brown. 1,682,243; Aug. 28.
Cap. D. J. Cremen. 1,682,004; Aug. 28.
Car brake. J. H. Rebstock. 1,682,692; Aug. 28.
Carbon, Apparatus for producing. C. Matlock. 1,681,945; Aug. 28.
Carrier: *See*—
Advertisement carrier. Baggage carrier.
Carrier amplitude-control system. O. B. Blackwell, and H. A. Affel. 1,681,972; Aug. 28.
Carrier for automobiles, Boat. G. A. Hillstrom. 1,681,936; Aug. 28.
Carton. F. J. Benjamin. 1,682,594; Aug. 28.
Carton and paper cup therefor, Dispensing. W. A. Ringler. 1,682,350; Aug. 28.
Cash register. B. M. Shipley. 1,682,196–7; Aug. 28.
Case: *See*
Eyeglass case. Vanity case.
Casing for coin-controlled devices, Mountable and demountable. J. H. Mann, jr. 1,682,135; Aug. 28.
Casing hanger. R. M. Judd, E. C. Taylor, and J. Worth. 1,682,526; Aug. 28.
Casing having an explosion vent, High-pressure gauge. R. E. Bruckner. 1,682,033; Aug. 28.
Casement adjuster. W. Wassener. 1,682,205; Aug. 28.
Cathode, Incandescent. B. van der Pol. 1,682,642; Aug. 28.
Ceiling fixture. M. N. Russell. Des. 76,203; Aug. 28.
Cellulose derivative and producing same. L. Lilienfeld. 1,682,292; Aug. 28.
Cellulose derivative and producing same. L. Lilienfeld. 1,672,294; Aug. 28.

Cement and producing the same, Dolomite. F. W. Brown. 1,682,470; Aug. 28.
Cement-applying machine. H. G. Ellis and H. A. Mathis. 1,682,494; Aug. 28.
Cementing machine. J. W. Cosgrove. 1,682,036; Aug. 28.
Centrifugal machine. J. W. Berceaw. 1,682,473; Aug. 28.
Ceramic material. F. H. Riddle. 1,682,250; Aug. 28.
Ceramic material. F. H. Riddle. 1,682,251; Aug. 28.
Ceramic ware, Forming. H. R. Straight. 1,682,200; Aug. 28.
Chains, Belt loop for. L. F. Otten. 1,682,536; Aug. 28.
Chair rocker. C. C. Rodery. 1,682,685; Aug. 28.
Chart, Mileage route. L. A. T. Soldane. 1,682,151; Aug. 28.
Chip-finishing machine. A. Smith. 1,682,431; Aug. 28.
Cigarette-rolling device. B. K. Fisher. 1,682,219; Aug. 28.
Circuit closer for collision-indicating devices. L. Lifschutz. 1,682,134; Aug. 28.
Circuit controller, Electric-. H. E. Billerbeck. 1,682,549; Aug. 28.
Circuit-controlling means. A. G. Shaver. 1,682,429; Aug. 28.
Circuit-controlling means, Electric. P. F. Sonneck. 1,682,098; Aug. 28.
Circuits, Method of and apparatus for control of electrical conditions of. R. B. Hunter and C. T. Evans. 1,682,566; Aug. 28.
Circulating system. C. G. Sprado. 1,682,437; Aug. 28.
Clamp: *See*—
Block clamp. Timber clamp.
Button clamp.
Clamp. H. G. Disbrow. 1,682,604; Aug. 28.
Clamping device for valve-seat reamer pilots. R. E. Walton. 1,682,314; Aug. 28.
Clamping mechanism, Door-. F. J. Couch. 1,682,116; Aug. 28.
Clarifier and thickener. H. G. Schwarz. 1,682,256; Aug. 28.
Clasp: *See*—
Lingerie clasp.
Cleaner: *See*—
Boiler cleaner.
Cleaning device. C. Field. 1,682,118–19; Aug. 28.
Cleaning device, Window-. F. H. Dellaree and J. Bomze. 1,682,216; Aug. 28.
Clip: *See*—
Pen clip. Screen-holding clip.
Clipper. W. J. Van Osdel. 1,682,447; Aug. 28.
Clock-savings-bank device, Combined. R. Hobs. 1,682,568; Aug. 28.
Closet: *See*—
Water-closet.
Closing and retarding device. P. S. Morgan. 1,682,696; Aug. 28.
Closure. A. A. Horton. 1,682,081; Aug. 28.
Closure. P. S. Moyer. 1,682,234; Aug. 28.
Closure. J. S. Reid. 1,682,094; Aug. 28.
Clothes-pressing machine. R. C. Burnley. 1,682,003; Aug. 28.
Clutch. R. Ehrenfeld. 1,682,493; Aug. 28.
Clutch controller. C. K. Porter. 1,682,348; Aug. 28.
Clutch transmission, Hydraulic. E. H. McKinney. 1,682,085; Aug. 28.
Coal-pulverizing machine. R. Jackson. 1,682,377; Aug. 28.
Cock, Valve. J. Reid and G. R. Welch. 1,682,248; Aug. 28.
Coffee-cutting machine. W. M. Williams. 1,682,454; Aug. 28.
Combination light. W. G. Berry, J. Klein, and C. Schmidt. 1,682,164; Aug. 28.
Commutator distributor for internal-combustion engines. R. H. Josephson. 1,682,525; Aug. 28.
Compensator, Electric. G. W. Pierce. 1,682,712; Aug. 28.
Composition of matter. A. C. James. 1,682,524; Aug. 28.
Compressor. M. F. Hill. 1,682,564; Aug. 28.
Compressor, Rotary. M. F. Hill. 1,682,565; Aug. 28.
Concrete block or slab and making the same. F. W. Sampson. 1,682,687; Aug. 28.
Concrete building blocks, Making. F. J. Straub. 1,682,359; 28.
Concrete form. J. N. Heltzel. 1,682,008; Aug. 28.
Concrete slab, Reenforced-. B. C. Harloff. 1,682,726; Aug. 28.
Condensation products containing sulphur, Manufacture of. O. Spengler and A. Thurm. 1,682,434; Aug. 28.
Condenser and manufacture, Electric. G. E. Bliziotis 1,682,031; Aug. 28.
Conductor for wireless telegraphy and winding apparatus therefor, Aerial. B. Rosenbaum. 1,682,421; Aug. 28.
Confectionery containing an aromatic Liquid, Device for producing. C. Riche. 1,682,146; Aug. 28.
Container. R. L. Feagles. 1,682,039; Aug. 28.
Container. O. M. Krembs. 1,682,179; Aug. 28.
Container. F. S. Oppenheim. 1,682,410–11; Aug. 28.
Container. G. C. Reid. 1,682,247; Aug. 28
Container. A. M. Scalfe. 1,681,955; Aug. 28.
Container. S. Schwartz. 1,682,427; Aug. 28.
Container and manufacture. J. Berg. 1,682,030; Aug. 28.
Container construction. H. A. Inman. 1,682,129; Aug. 28.
Container-cover construction. H. A. Selah. 1,682,194; Aug. 28.
Container, Sanitary butter-knife. J. Horan. 1,682,571; Aug. 28.
Container, Sheet-metal. W. F. Schweigert. 1,682,096; Aug. 28.
Control apparatus. B. O. Austin. 1,682,466; Aug. 28.
Control apparatus. W. H. Smith. 1,682,432; Aug. 28.
Control device. H. C. Miller and A. J. Mottlau. 1,682,395; Aug. 28.
Control system. F. M. Parks and G. R. Shaw. 1,682,413; Aug. 28.
Control system. V. G. Vaughan. 1,682,448; Aug. 28.
Control system, Motor-. A. L. Harvey. 1,682,508; Aug. 28.
Conveyer, Elevated. P. M. Hassler. 1,682,175; Aug. 28.
Conveyers, Safety device for. S. G. Margles and A. E. Handy. 1,682,014; Aug. 28.
Cooker, Pressure. A. Vischer, jr. 1,682,203; Aug. 28.
Cooking, Automatic. F. W. Hewitt. 1,682,337; Aug. 28.
Cooking device. J. G. Lambert. 1,682,384; Aug. 28.
Cooling apparatus, Air-. C. A. Parsons and J. Rosen. 1,682,183; Aug. 28.
Cooling apparatus for beverage dispensers. W. E. Leibling. 1,682,385; Aug. 28.
Core for casting amplifying horns. F. W. Temple. 1,682,691; Aug. 28.
Core for stereotype-plate-casting boxes. H. A. W. Wood. 1,682,160; Aug. 28.
Corn-picking roll. L. A. Paradise. 1,682,143; Aug. 28.
Corn sheller. A. E. Gilman. 1,682,374; Aug. 28.
Coupling: *See*—
Flexible coupling. Railway coupling.
Hydrant coupling. Shaft coupling.
Pipe coupling.
Coupling. J. Bijur. 1,682,720; Aug. 28.
Coupling and the like. J. Bijur. 1,682,721–2; Aug. 28.
Cover for garbage cans, Sanitary. W. J. Egan. 1,682,491; Aug. 28.
Cover, Milk-bottle. C. T. Raschick. 1,682,090; Aug. 28.
Cover, Toilet-seat. J. M. Weed. 1,682,648; Aug. 28.
Cowl ventilator. J. Ledwinka. 1,681,942; Aug. 28.
Crate, Folding. T. D. Dershimer. 1,682,489; Aug. 28.
Crate, Folding. F. Morrogh. 1,681,996; Aug. 28.
Crusher: *See*—
Fruit crusher.
Crushing material, Apparatus for. A. J. Haug. 1,682,511; Aug. 28.
Cultivator and weeder. A. L. Ritter. 1,682,538; Aug. 28.
Cultivator attachment. L. Morrison and J. O. Simmons, sr. 1,682,182; Aug. 28.
Curling appliance, Hair-. F. M. Little. 1,682,345; Aug. 28.
Currents, Rectification of alternating. T. A. Willard and F. S. McCullough. 1,682,000; Aug. 28.
Cutter for tree lamps, Making. L. L. Raymond. 1,682,416; Aug. 28.
Cutting and creasing press. F. S. English. 1,682,609; Aug. 28.
Cutting machine. R. and A. S. Reid. 1,682,418; Aug. 28.
Cylinder, Engine. C. G. Sprado. 1,682,436; Aug. 28.
Cylinder, Internal-combustion-engine. E. A. Sperry. 1,682,357; Aug. 28.
Danger signal, Highway. E. E. Smith. Des. 76,208; Aug. 28.
Dehydrating apparatus. W. D. Callan. 1,682,596; Aug. 28.
Depilatory. C. S. Miner and E. W. Trolander. 1,682,181; Aug. 28.
Detecting and measuring strains. J. T. Littleton, jr. 1,681,991; Aug. 28.
Determination of wave-energy direction. M. Mason. 1,682,706; Aug. 28.
Determining the frequency of rotation or oscillation of moving parts, Apparatus for. A. V. J. Guillet and A. Bertrand. 1,682,725; Aug. 28.
Differential mechanism. F. M. Lewis. 1,682,386; Aug. 28.
Dish drier. A. G. Andrews. 1,682,654; Aug. 28.
Dish washing and drying machine. J.-L. Breton. 1,682,063; Aug. 28.
Disk construction, Pulverizer. T. J. Barnes. 1,682,468; Aug. 28.
Dispenser, Liquid. T. M. Manson and C. H. Ward. 1,682,705; Aug. 28.
Dispensing and measuring device, Milk. E. N. Austin. 1,682,363; Aug. 28.
Dispensing device. W. L. Colby. 1,682,215; Aug. 28.
Dispensing device. L. Rossi. 1,692,629; Aug. 28.
Dispensing mechanism, Multiple. S. K. Dennis. 1,681,930; Aug. 28.
Dispensing napkins, Method and apparatus for. E. D. Pratt. 1,682,580; Aug. 28.
Display and shipment box, Combination. C. R. Anderson. 1,682,463; Aug. 28.
Display box. C. D. Vest. 1,682,449; Aug. 28.
Display stand. M. C. Burke. 1,682,660; Aug. 28.
Distillates, Liquid phase purification of. T. G. Delbridge and J. B. Hill. 1,682,603; Aug. 28.
Distillation of oil from oil shale, Process of and apparatus for. H. B. Kipper. 1,682,287; Aug. 28.
Doctor bar. C. Ives. 1,682,522; Aug. 28.
Door, Automatic electrically-operated. C. Rorabacher. 1,682,254; Aug. 28.
Door-control apparatus, Garage-. J. A. Anderson. 1,682,103; Aug. 28.
Door lock. W. Hilttemann. 1,682,521; Aug. 28.
Door-operating device. N. Westby. 1,681,962; Aug. 28.
Door-operating mechanism, Refrigerator-car-. S. B. Haselthe. 1,682,041; Aug. 28.

Door or screen, Automatic fire-protection. J. Schwab. 1,682,634; Aug. 28.
Door, Steel. G. E. Stevenson. 1,681,958; Aug. 28.
Door strip and side-door-post protector, Combined grain-. S. L. Joiner. 1,682,281; Aug. 28.
Door with combined screen and adjustable window. G. L. Eveleth. 1,682,271; Aug. 28.
Doors, Heat-tight and air-tight closing device for. A. C. F. Rathke. 1,682,091; Aug. 28.
Drain. C. F. Gilbert. 1,681,981; Aug. 28.
Dress. G. Tancill. Des. 76,210; Aug. 28.
Dress, Knitted. M. Gross. Des. 76,186; Aug. 28.
Drier: *See*—
Dish drier.
Drilling machine. T. H. Doan, jr. 1,682,558; Aug. 28.
Drilling machine, Well-. A. L. Litzner. 1,682,295; Aug. 28.
Drills, Magnetic analysis of T. Spooner. 1,682,435; Aug. 28.
Driving mechanism. J. E. Mitchell and O. Mitchell. 1,682,140; Aug. 28.
Duplicating machines, Control mechanism for interleaving. E. J. Brasseur. 1,682,700; Aug. 28.
Dust separation, Centrifugal apparatus for. G. Keith. 1,682,285; Aug. 28.
Duster and wash stick. J. B. Zorn. 1,681,967; Aug. 28.
Egg stand. W. Benner. Des. 76,177; Aug. 28.
Electric-controller construction. J. F. Schnabel. 1,682,541; Aug. 28.
Electric iron. C. B. Backer. 1,682,467; Aug. 28.
Electric machine, Magneto-. G. Modigliani. 1,682,086; Aug. 28.
Electric regulation. J. L. Creveling. 1,681,924; Aug. 28.
Electric waves or currents of constant frequency, Receiving system for. Y. Marrec and R. Fulds. 1,682,533; Aug. 28.
Electrical rectifying apparatus. J. Kübler. 1,682,383; Aug. 28.
Electrical reproducer. C. W. Peterson. 1,682,144; Aug. 28.
Electrical vulcanizing, Apparatus for. J. Ledwinka. 1,682,620; Aug. 28.
Electricity meter. W. Beusch. 1,682,547; Aug. 28.
Electricity meter, Coin-controlled. R. W. Jolly. 1,682,283; Aug. 28.
Electromagnetically-operated device. A. J. Horton. 1,682,676; Aug. 28.
Elevator: *See*—
Marine elevator.
Elevator. M. A. Baker. 1,682,209; Aug. 28.
Embroidery, Decorative. A. Bergman. 1,682,474; Aug. 28.
Engine: *See*—
Internal-combustion engine. Jordan engine.
Engine and operating same, Internal-combustion. L. G. Nilson. 1,682,305; Aug. 28.
Engine crank-shaft and connecting-rod construction. P. H. Wenzl. 1,682,315; Aug. 28.
Engine drive for ships, Combustion-. E. A. Sperry. 1,682,358; Aug. 28.
Envelope. E. F. Ahlquist. 1,682,458; Aug. 28.
Escalator. A. Radcliffe. 1,682,052; Aug. 28.
Escutcheon and bearing, Latch-handle. L. Ottinger. Re17,072; Aug. 28.
Eyeglass case. C. G. Aldrich. 1,682,719; Aug. 28.
Fabric: *See*—
Paper fabric.
Fabrics, Process and apparatus for treating. A. Willheim. 1,682,453; Aug. 28.
Fan. H. G. Herion. 1,682,044; Aug. 28.
Fare register. W. M. Hoffman. 1,682,126; Aug. 28.
Fastener, Box-cover. E. B. Kopiltz. 1,682,010; Aug. 28.
Fastening machine, Bread-. O. F. Rohwedder. 1,682,581; Aug. 28.
Faucet, Push-button. A. C. Van House. 1,682,154; Aug. 28.
Feeding and stopping mechanism, Combination automatic car. G. W. Merritt. 1,682,718; Aug. 28.
Feeding and watering device, Poultry. H. V. Guertin. 1,682,614; Aug. 28.
Feeding attachment for knitting machines. W. Nebel. 1,682,050; Aug. 28.
Felt washer. W. P. Feeney. 1,682,496; Aug. 28.
Fibers, Mechanism for uniformly interweaving. A. Aldrich. 1,682,460; Aug. 28.
Fibrous material, Treating. A. Lutz. 1,682,390; Aug. 28.
File or rack for papers, documents, merchandise and the like. H. O. Ross. 1,682,423; Aug. 28.
Film-winding mechanism. R. B. Clark. 1,682,553; Aug. 28.
Finishing device. J. J. W. Kenan. 1,682,678; Aug. 28.
Fire-alarm and police signal boxes, Support for. W. H. Greenlaw. 1,682,613; Aug. 28.
Firearm. C. C. Loomis. 1,682,704; Aug. 28.
Fishing reel. C. T. Pflueger. 1,682,709; Aug. 28.
Flexible coupling. W. E. Trumpler. 1,682,444; Aug. 28.
Flooring. C. C. Loomis. 1,682,530; Aug. 28.
Flow meter. C. A. Dawley. 1,682,602; Aug. 28.
Fluid-pressure brake. A. Chevillot. 1,682,214; Aug. 28.
Flush-valve housing. A. Rogers. 1,682,351; Aug. 28.
Folder, Combination tie and collar. R. E. Johnson. 1,682,046; Aug. 28.
Folder, Duplex. Z. V. Morvay. 1,681,949; Aug. 28.
Folding machine. H. C. Osborn. 1,682,237; Aug. 28.
Folding machine. L. R. Tufts. 1,682,446; Aug. 28.
Food materials, Treatment of. F. C. Beardslee. 1,682,318; Aug. 28.
Forceps. F. Leneschmidt. 1,682,621; Aug. 28.
Form and section for building walls. I. Romero and A. Costini. 1,682,253; Aug. 28.
Frequency regulator. G. Y. Allen. 1,682,461; Aug. 28.
Fruit crusher. R. Baccellieri. 1,681,920; Aug. 28.
Fuel briquette. G. F. Sheehan. 1,682,195; Aug. 28.
Fuel-flow regulator for constant heat. C. S. Pinkerton. 1,682,684; Aug. 28.
Fuel, Motor. E. C. Hennen. 1,682,561; Aug. 28.
Fuel product, Preparing a. H. F. Maurel. 1,682,680; Aug. 28.
Furnace: *See*—
Induction furnace. Smelting furnace.
Open-hearth furnace. Water-cooled furnace.
Retort furnace.
Furnace structure. R. A. Foresman. 1,682,328; Aug. 28.
Fuse cut-out. J. B. Bourgeois. 1,682,365; Aug. 28.
Game apparatus. M. G. Hilpert. 1,682,279; Aug. 28.
Game apparatus. M. D. Vollmer. 1,682,645; Aug. 28.
Game device. J. D. Glavin. 1,682,329; Aug. 28.
Game, Educational card. E. M. Phillips. 1,682,244; Aug. 28.
Game, Mechanical baseball. G. Smith. 1,682,636; Aug. 28.
Garment bag. W. B. Collins. 1,681,923; Aug. 28.
Garment hanger. A. H. Peckham. 1,682,626; Aug. 28.
Garment press, Electric. E. J. Carroll. 1,682,484; Aug. 28.
Gas burner. F. V. Risinger. 1,682,148; Aug. 28.
Gas, Generating. C. W. Botsford. 1,682,264; Aug. 28.
Gases, Apparatus for regulating the composition of mixed. C. H. Smoot. 1,682,689; Aug. 28.
Gases, Production of dry. G. Wietzel and F. Stoewener. 1,682,588; Aug. 28.
Gate: *See*—
Automatic gate. Hydraulic gate.
Gate mechanism for railway crossings, Automatic. J. W. Shean. 1,682,353; Aug. 28.
Gauge for mechanics, Combination. F. W. Shakeshaft. 1,682,310; Aug. 28.
Gear-shifting mechanism. W. C. Stevens and H. J. Taylor. 1,682,024; Aug. 28.
Gearing, Hydraulic change-speed. S. Möhl. 1,682,303; Aug. 28.
Gears, Apparatus for feeding the lapping compound to. J. H. Rolf. 1,682,420; Aug. 28.
Gel and preparing the same. W. A. Patrick. 1,682,239; Aug. 28.
Generating tooth forms. E. W. Miller. 1,681,994; Aug. 28.
Generator: *See*—
Air generator. Steam generator.
Glazing, system. L. Lane. 1,682,291; Aug. 28.
Golf hole, Indoor. J. A. Cunningham. 1,682,601; Aug. 28.
Golf practicing machine. J. C. Backus. 1,682,059; Aug. 28.
Grab for use in wells. J. A. Cady. 1,682,481; Aug. 28.
Grater and reamer for citrous fruits. O. C. Gussner. 1,682,274; Aug. 28.
Grinding machine. W. J. Guild. 1,682,672; Aug. 28.
Grinding machine. E. M. Taylor. 1,682,673; Aug. 28.
Grinding machine, Reamer-. F. O. Albertson. 1,682,459; Aug. 28.
Grindstone and making same. J. L. Weller. 1,682,649; Aug. 28.
Gulley for pocket-billiard tables. G. L. Thompson. 1,682,201; Aug. 28.
Hair-cutting device. P. Kvist. 1,682,289; Aug. 28.
Hair-waving device. M. R. H. Wilson. 1,682,455; Aug. 28.
Hand-symbol signal. A. G. Molniar. 1,682,233; Aug. 28.
Hanger: *See*—
Casing hanger. Radiator hanger.
Garment hanger.
Hanger attachment, Garment-. R. W. Banks. 1,682,106; Aug. 28.
Harrow, Lister corn. J. H. Campbell. 1,682,322; Aug. 28.
Headlight. J. M. B. Lewis. 1,682,387; Aug. 28.
Heat-conducting tube. J. B. Murray and T. E. Murray, jr. 1,682,404; Aug. 28.
Heat-insulating material and making the same, Refractory. B. T. Horsfield. 1,682,675; Aug. 28.
Heat transfer. J. E. Bell. 1,681,926; Aug. 28.
Heater: *See*—
Liquid heater.
Heater. E. P. Miles. 1,681,995; Aug. 28.
Heater attachment, Radiant-. G. L. Davenport, jr. 1,682,038; Aug. 28.
Heaters, Gridwork for air. H. Klein and P. Kuhn. 1,682,131; Aug. 28.
Heaters, Making electrical. R. L. Shriner. 1,681,956; Aug. 28.
Heating bar. F. W. Brooke. 1,682,112; Aug. 28.
Heating-element support. H. A. Mulvany. 1,682,402; Aug. 28.
Heating unit for electrically-heated utensils. E. S. Preston. 1,681,951; Aug. 28.
Heel. G. E. Warren. 1,681,961; Aug. 28.
Heel, Shoe. R. Fulli. 1,681,934; Aug. 28.
Hinge. W. L. Clark. 1,681,974; Aug. 28.

Hoisting device, Safety. D. J. Sullivan. 1,682,439; Aug. 28.
Holder, Advertisement. J. A. Redman. 1,682,093; Aug. 28.
Holder, Electrode. A. C. James. 1,682,523; Aug. 28.
Holder, Identity card. A. Wilden. 1,682,259; Aug. 28.
Holder, Record. W. B. Frankenstein. 1,682,272; Aug. 28.
Holder, Sign. J. T. Lang and C. F. Schoefer. 1,682,047; Aug. 28.
Hook: *See*—
Safety hook.
Hopper for concrete material, Batch. J. L. Shue. 1,682,354; Aug. 28.
Horn, Loud-speaker. J. O. Bergman. 1,682,656; Aug. 28.
Horseshoe and calk. W. T. Sheperdson. 1,682,688; Aug. 28.
Humidifier. C. E. Hendrix. 1,682,513; Aug. 28.
Humidifier for tobacco containers. I. N. Babbitt. 1,682,591; Aug. 28.
Husking roll, Corn-. L. A. Paradise and W. J. Coultas. 1,682,142; Aug. 28.
Hydrant. C. Holder. 1,682,225; Aug. 28.
Hydrant coupling, Fire-. H. C. Saunders. 1,682,187; Aug. 28.
Hydraulic brake. H. Schaede. 1,682,308; Aug. 28.
Hydraulic center-shifting mechanism. V. Angerer. 1,681,969; Aug. 28.
Hydraulic gate. L. K. Whitcomb, jr., and N. Vanderkieft. 1,682,206; Aug. 28.
Hydraulic press, Automatic. W. Ernst. 1,682,172; Aug. 28.
Hydraulic system. J. E. Holveck. 1,682,569; Aug. 28.
Identification. L. J. Tracey and H. H. Quail. 1,682,153; Aug. 28.
Ignition device. H. Ford. 1,682,220; Aug. 28.
Impregnated material and treating the same. L. F. and W. E. Whitney. 1,682,652; Aug. 28.
Index and record, Visible loose-leaf. H. Schoolberg. 1,682,192; Aug. 28.
Index record, Visible card-. H. Schoolberg. 1,682,191; Aug. 28.
Indicator: *See*—
Load indicator.
Induction furnace. R. B. Lincoln. 1,682,388; Aug. 28.
Inflation device. E. J. Olsen. 1,682,625; Aug. 28.
Inflow-controlling and fluid-discharge means, Combination. M. S. Young and A. Novick. 1,682,544; Aug. 28.
Instrument, Plotting. A. L. Clark, jr. 1,682,035; Aug. 28.
Insulator fitting. A. O. Austin. 1,682,105; Aug. 28.
Insulator pin and manufacturing the same. A. O. Austin. 1,682,590; Aug. 28.
Interleaving device. E. J. Brasseur. 1,682,699; Aug. 28.
Internal-combustion engine. W. B. Bronander. 1,682,111; Aug. 28.
Internal-combustion engine. H. S. Hays. 1,682,512; Aug. 28.
Internal-combustion engine. L. E. Porter. 1,682,307; Aug. 28.
Iron: *See*—
Electric iron.
Ironing machine. E. M. Richards. 1,682,419; Aug. 28.
Jack: *See*—
Automobile jack.
Jar: *See*—
Candy jar.
Jewelry, Connection device especially for. A. Kuhnle. 1,682,290; Aug. 28.
Jig, Drill-guiding. C. Sklarek. 1,682,150; Aug. 28.
Joint: *See*—
Pin-stem joint.
Jordan engine. H. R. Harrigan. 1,681,935; Aug. 28.
Kiln, Tunnel. J. Kelleher. 1,681,939; Aug. 28.
Kit bag. L. H. Boch. 1,681,922; Aug. 28.
Kite-string traveler. C. Johnson. 1,682,082; Aug. 28.
Knitting machine, Round-. E. E. Müller. 1,682,087; Aug. 28.
Laboratory, Airplane. A. A. Merrill. 1,682,138; Aug. 28.
Ladle lining. J. V. Marshall. 1,681,943; Aug. 28.
Lamp. L. Kraft. 1,682,342; Aug. 28.
Lamp and sign bracket, Combined street. O. J. Helvey. Des. 76,190; Aug. 28.
Lamp post. E. K. Lockard. Des. 76,196; Aug. 28.
Lamp, Railway. F. E. McLaughlin. 1,682,300; Aug. 28.
Lamps and the like, Door construction for. R. E. Crossley. 1,682,371; Aug. 28.
Lamps, Spring lock for incandescent. F. H. Owens. 1,682,682; Aug. 28.
Latch for windows, Top. C. A. Lewis. 1,681,989; Aug. 28.
Latch, Window. C. A. Lewis. 1,681,986; Aug. 28.
Lead sludge, Treatment of. J. E. Hill. 1,682,562; Aug. 28.
Lens, Fresnel-type. S. B. Dressler. 1,682,490; Aug. 28.
Lifting apparatus. F. B. Johnston. 1,682,083; Aug. 28.
Light: *See*—
Combination light. Turn light.
Light-projecting device. F. W. Dressel. 1,682,608; Aug. 28.
Light-projecting device. A. D. Hobbie. 1,682,567; Aug. 28.
Lighter. J. T. Burns. 1,682,661; Aug. 28.
Lighting-fixture bracket or article of similar nature. M. Brown. Des. 76,178; Aug. 28.
Lighting fixture, Electric. S. N. Knorr. Des. 76,194; Aug. 28.
Lightning arrester. E. W. Breisch and F. B. Falknor. 1,682,476; Aug. 28.
Lightning-rod construction. S. D. Kretzer. 1,682,288; Aug. 28.
Limb, Artificial. J. H. Kosek, and R. B. Trautman. 1,682,132; Aug. 28.
Lingerie clasp. L. R. Keller. 1,681,983; Aug. 28.
Liquid heater. W. A. Barrett. 1,682,029; Aug. 28.
Load indicator, Transformer-. H. S. Gano. 1,682,498; Aug. 28.
Loader for cannon, Mechanical. T. A. Conlon. 1,682,323; Aug. 28.
Lock: *See*
Door lock. Type-page lock.
Permutation lock.
Lock. F. K. Heyer. 1,682,080; Aug. 28.
Lock for folding boxes. L. Boeppler. 1,682,165; Aug. 28.
Locomotive boiler. A. W. Bruce. 1,682,692; Aug. 28.
Locomotive boiler. A. W. Bruce. 1,682,723; Aug. 28.
Locomotive, Electric. H. A. Houston. 1,682,517; Aug. 28.
Locomotive, Steam. A. Franco. 1,682,006; Aug. 28.
Lotion, Hair. M. M. McDaneld. 1,682,230; Aug. 28.
Lubricating device. A. L. Bridgham. 1,682,659; Aug. 28.
Lubricating mechanism, Automatic. E. J. Serpas. Re17,073; Aug. 28.
Lubricating systems, Safety device for. E. H. Strong. 1,682,257; Aug. 28.
Machine for applying paste to paper sheets. S. Lovenwirth. 1,681,992; Aug. 28.
Machine for effecting systematic irregularities in the reproduction of objects. L. E. Topham. 1,681,960; Aug. 28.
Machine for finishing textile fabrics. A. Crompton. 1,682,487; Aug. 28.
Machine for manipulating plastic materials. W. A. Gordon. Re17,076; Aug. 28.
Machine for mechanically mixing tobacco leaves. H. Müller. 1,682,017; Aug. 28.
Machine for producing wood screws from pressed blanks. G. Weber. 1,682,646; Aug. 28.
Machine for sealing caps to jars and cans, Hand. S. N. Tevander. 1,681,959; Aug. 28.
Machine for treating hides, skins, and leather. J. J. Brophy, and W. E. Broughton. 1,682,032; Aug. 28.
Magnetic core material. S. Ballantine and R. W. Seabury. 1,682,364; Aug. 28.
Magnetophone. R. L. Williams. 1,681,963; Aug. 28.
Manicuring implement. A. E. R. Blomquist. 1,682,475; Aug. 28.
Marbleizing process. L. V. Casto. 1,682,067; Aug. 28.
Marine elevator. H. Barlow. 1,682,208; Aug. 28.
Match package. H. T. Bradner. 1,682,110; Aug. 28.
Mattress and cushion. C. C. Meutsch. 1,682,394; Aug. 28.
Measuring instrument, Electrical. C. H. H. Rodanet. 1,682,252; Aug. 28.
Measuring instrument, Foot-. C. F. Brannock. 1,682,366; Aug. 28.
Mechanism for disintegrating dislodged material. K. Davis. 1,682,555; Aug. 28.
Mercury-vapor rectifier. O. Seitz. 1,682,428; Aug. 28.
Metal foundation for composite floors. H. B. Chamberlain. 1,682,551; Aug. 28.
Metal holdback for curtains and draperies. G. Madvig. Des. 76,197; Aug. 28.
Metals, Extrusion of. E. Mitchell. 1,682,399; Aug. 28.
Meter: *See*—
Electricity meter. Flow meter.
Meter for concrete mixers, Batch. G. Jaeger. 1,682,340; Aug. 28.
Microphone and operating the same, Resistance. P. Thomas. 1,682,443; Aug. 28.
Milking machine. F. M. Wrabek. 1,682,001; Aug. 28.
Mill: *See*—
Attrition mill.
Mine, Explosive. H. Gruber. 1,682,560; Aug. 28.
Mining machine. K. Davis. 1,682,556–7; Aug. 28.
Mining machine, Chain hydraulic. W. W. Macfarren. 1,682,296; Aug. 28.
Molding pattern. A. J. Smith. 1,681,957; Aug. 28.
Mop, Reciprocating. W. P. Dorl. 1,682,168; Aug. 28.
Motor: *See*—
Wave motor.
Motor-control system. R. T. Kintzing. 1,682,381; Aug. 28.
Motors, Starting system for electric. H. King. 1,682,380; Aug. 28.
Motors without starters, Rotor winding for asynchronous. C. Shenfer. 1,682,430; Aug. 28.
Mounting mirrors and the like. E. de H. Steel. 1,682,584; Aug. 28.
Muffler. J. W. Williams. 1,682,316; Aug. 28.
Muffler, Air-cooled. E. P. Gray. 1,682,077; Aug. 28.
Music rack. I. W. Giese. 1,682,122; Aug. 28.
Nailing block. S. D. Butterworth. 1,682,662; Aug. 28.
Needle-lease reed. K. Hauser. 1,682,334; Aug. 28.
Note sheets, Manufacturing. C. F. Stoddard. 1,682,690; Aug. 28.
Nutcracker. F. E. Modlin. 1,682,681; Aug. 28.
Oil. Apparatus for purifying used lubricating. E. L. Gross. 1,681,980; Aug. 28.
Oil burner. H. H. Holmes and A. F. Espersen. 1,682,615; Aug. 28.
Oil burner. W. Kauffman. 1,682,677; Aug. 28.
Oil burner. J. N. Macrae. 1,682,531; Aug. 28.
Oil burner. M. E. Vezie. 1,682,644; Aug. 28.
Oil burner. J. M. Wenz. 1,682,587; Aug. 28.
Oil separator. O. H. Nance. 1,682,304; Aug. 28.

Oil-spray purge mechanism for water-gas apparatus. F. B. Hayes. 1,682,277; Aug. 28.
Open-hearth furnace. A. T. Keller. 1,682,378; Aug. 28.
Open-hearth furnace. F. B. McKune. Re17,071; Aug. 28.
Ophthalmic mounting. J. W. Welsh. 1,682,650; Aug. 28.
Optical instrument. C. W. Keuffel. 1,682,572; Aug. 28.
Orthopedic last-fitting apparatus. C. Oliver. 1,682,579; Aug. 28.
Oscillation system for medical apparatus, High-frequency. A. Gebbert. 1,682,121; Aug. 28.
Oxide gels, Making aluminum-. W. A. Patrick. 1,682,241; Aug. 28.
Oxide gels, Making titanium-. W. A. Patrick. 1,682,242; Aug. 28.
Oxide gels, Preparing stannic-. W. A. Patrick. 1,682,240; Aug. 28.
Oxygen or other gases, Apparatus for the subcutaneous injection of. M. Lesieur. 1,682,344; Aug. 28.
Package. C. H. Andros. 1,682,104; Aug. 28.
Package inspection. C. Arelt and J. Jackson. 1,682,464; Aug. 28.
Packing for pistons and the like. S. M. Greenidge. 1,682,222; Aug. 28.
Packing machine. R. Navarro y Gonzalez. 1,682,275; Aug. 28.
Packing pad. B. M. Hoblick. 1,682,177; Aug. 28.
Packing ring. T. Johnston. 1,682,130; Aug. 28.
Pad: *See*—
Packing pad. Triangle pad.
Pad for mangle rollers, Ironing boards, and the like. W. A. Zeidler. 1,681,965; Aug. 28.
Padding. E. J. Carroll. 1,682,483; Aug. 28.
Paintings, Production of imitation. H. Gabler-Adlersfeld. 1,682,261; Aug. 28.
Paper, Blasting. G. F. Templeman. 1,682,639; Aug. 28.
Paper fabric. W. A. Lorenz. 1,682,346; Aug. 28.
Paper, Ornamented. J. W. Neff. Des. 76,200; Aug. 28.
Paper package, Toilet and tissue. M. M. Cohn. 1,682,115; Aug. 28.
Parachute-opening device. C. R. Harwick. 1,682,509; Aug. 28.
Partition, Interior sectional. F. P. Mitchell. 1,682,400; Aug. 28.
Pattern: *See*—
Molding pattern.
Peeling machine. F. Cunico. 1,682,600; Aug. 28.
Pen clip, Fountain-. S. M. Sager. 1,681,954; Aug. 28.
Pen, Fountain. F. C. Dell. Des. 76,181; Aug. 28.
Pencil. F. C. Dell. 1,682,070; Aug. 28.
Pencil. H. L. Fischer. 1,682,072; Aug. 28.
Permutation lock. A. Enos. 1,682,171; Aug. 28.
Photographic film or plate rack. M. Romanowicz and J. Romanowicz. 1,682,628; Aug. 28.
Photographic vignetter, Adjustable. A. S. Howell. 1,682,127; Aug. 28.
Photometer, Rotating-disk. C. W. Keuffel. 1,682,528; Aug. 28.
Piano, Player. F. C. White. 1,682,651; Aug. 28.
Picker and bagger, Potato. P. Dahlman. 1,682,554; Aug. 28.
Picture machines, Fire stop or trap for motion-. D. A. Raymond. 1,682,627; Aug. 28.
Pictures in colors, Producing printed. L. W. Bliss. 1,681,927; Aug. 28.
Pin for coupling heads, Stop. S. L. Joiner. 1,682,282; Aug. 28.
Pipe-stem joint. A. E. Waller. 1,682,585; Aug. 28.
Pinking machine. A. Dvilnsky. 1,682,606; Aug. 28.
Pipe-bending machine. W. E. Robertson. 1,682,149; Aug. 28.
Pipe coupling. C. E. Smith. 1,682,635; Aug. 28.
Piston ring or assembly. C. P. Brockway. 1,682,477; Aug. 28.
Pivot retainer. E. G. Thomas. 1,682,442; Aug. 28.
Plug, Attachment. W. F. Hendry. 1,682,335; Aug. 28.
Polishing metal surfaces. W. L. Weber. 1,682,157; Aug. 28.
Pop-corn machine. S. Nelson. 1,682,018; Aug. 28.
Positioning device. F. E. Bertrand. 1,681,970; Aug. 28.
Positioning device, Work-. J. C. Hardie. 1,682,040; Aug. 28.
Press: *See*—
Cutting and creasing press. Hydraulic press.
Garment press.
Presses, Hydraulic and other. E. Sydney. 1,682,312; Aug. 28.
Pressing machines, Actuating mechanism for. J. P. Daly. 1,682,372; Aug. 28.
Pressing machines, Equalizing mechanism for. E. Davis. 1,682,488; Aug. 28.
Printing and index device. G. W. Schaefer. 1,682,188; Aug. 28.
Printing device. H. E. Hubbard. 1,682,519; Aug. 28.
Printing forms, Producing vertically-ruled. W. C. Hollister and L. M. Chapman. 1,682,514; Aug. 28.
Projection apparatus. S. H. Eliason. 1,682,326; Aug. 28.
Projector, Optical sign. W. A. Alder. 1,682,163; Aug. 28.
Propellers, Manufacture of. E. Mitchell. 1,682,398; Aug. 28.
Protector. Greenhouse. R. E. De Zonia. 1,682,005; Aug. 28.
Pulley, Split. H. J. Gilbert. 1,682,559; Aug. 28.
Pulsator for milking machines. H. McCornack. 1,682,392; Pump. J. E. Holveck. 1,682,570; Aug. 28.
Pump, Basement or cellar. G. T. Gusler and O. H. Schaelle. 1,682,502; Aug. 28.
Pump for spraying devices, Air. L. V. Hare. 1,682,174; Aug. 28.
Pump, Rotary. E. B. Tait. 1,682,258; Aug. 28.
Pump system. C. H., J. G., and A. F. Goyne, and J. H. Dougherty. 1,682,331; Aug. 28.
Pump working head, Power-. A. Randolph. 1,682,537; Aug. 28.
Pumps, Suction device for multistage centrifugal. R. Hentschel. 1,682,336; Aug. 28.
Rack: *See*—
Music rack. Storage rack.
Rack. E. S. Merrill. 1,682,180; Aug. 28.
Racquet and manufacture thereof. H. W. Hall. 1,682,504; Aug. 28.
Radiator, Aeroplane. W. Wait, Jr. 1,682,204; Aug. 28.
Radiator cap. G. H. Townsend and H. Schlaich. 1,682,641; Aug. 28.
Radiator cap or the like. G. L. Chapel. 1,682,552; Aug. 28.
Radiator core. J. M. Fedders. 1,682,327; Aug. 28.
Radiator hanger. J. J. Conroy. 1,682,486; Aug. 28.
Radio apparatus. D. G. Little. 1,682,703; Aug. 28.
Radio battery eliminator. P. E. Edelman. 1,682,492; Aug. 28.
Radio broadcast distribution, Subdivided service system of. E. E. Clement. Re17,069; Aug. 28.
Radiocabinet. O. P. Fritchle. Des. 76,185; Aug. 28.
Radiocircuits, Combination indicating and adjusting device for. O. Henze. 1,682,376; Aug. 28.
Radioreception, Prevention of interference in. F. K. Vreeland. 1,682,026; Aug. 28.
Radio transmission receiving system. H. Chireix. 1,682,664; Aug. 28.
Radio tube socket. E. B. Nowosielski. 1,682,408; Aug. 28.
Radius grinding, Method and apparatus for. W. C. Palmer. 1,682,412; Aug. 28.
Raft for transporting timber. A. H. Bryant and E. G. Tuck. 1,682,064; Aug. 28.
Rail bonding. W. P. Bovard. 1,682,109; Aug. 28.
Rail breaker. H. J. Schrader. 1,682,633; Aug. 28.
Rail support. W. P. Day. 1,682,665–6; Aug. 28.
Railway coupling, Automatic. R. Szelinski. 1,682,152; Aug. 28.
Razor, Safety. F. A. Alvarado. 1,682,462; Aug. 28.
Receptacle. C. H. Young. 1,682,028; Aug. 28.
Receptacle and handle therefor. L. Levien. 1,682,048; Aug. 28.
Reel: *See*—
Fishing reel.
Refractory ware. F. H. Riddle. 1,682,249; Aug. 28.
Register: *See*—
Cash register. Fare register.
Regulator: *See*—
Frequency regulator.
Regulator for warm-air furnaces, Direct-draft. R. M. Judd, E. C. Taylor, and R. S. McNaney. 1,682,527; Aug. 28.
Relay. C. G. Harwig. 1,682,510; Aug. 28.
Relay, Thermal. A. J. Mottlau. 1,682,401; Aug. 28.
Repair part for footwear. W. A. Owen. 1,682,707; Aug. 28.
Resistance devices, Making. V. K. Zworykin. 1,682,457; Aug. 28.
Retort furnace. C. V. McIntire. 1,681,946; Aug. 28.
Return bend. J. F. Fisher. 1,681,933; Aug. 28.
Rheostat. H. D. Brown. 1,682,113; Aug. 28.
Ring: *See*—
Packing ring. Seal ring.
Ring. L. G. Stewart. Des. 76,209; Aug. 28.
Ring cone-shaped diaphragm device. E. H. Foley and P. J. Gunn. 1,682,611; Aug. 28.
Roofing element. I. Davis. 1,681,975; Aug. 28.
Rotor, Internal. M. F. Hill. 1,682,563; Aug. 28.
Rubber and resin compound. S. P. Miller. 1,682,397; Aug. 28.
Rubber and the product obtained thereby, Manufacturing vulcanized. W. P. Ter Horst. 1,682,728; Aug. 28.
Rubber product and producing same, Vulcanized. W. P. Ter Horst. 1,682,729; Aug. 28.
Rubber tubes, Making. D. E. Hennessy. 1,682,125; Aug. 28.
Rubber tubes, Manufacturing. D. E. Hennessy. 1,682,124; Aug. 28.
Rule-punching mechanism. G. E. Wallin and E. G. Masengarb. 1,682,516; Aug. 28.
Runner opener. L. H. Kaupke. 1,681,938; Aug. 28.
Safety hook. W. G. and K. R. Jensen. 1,682,617; Aug. 28.
Sample tab. A. Spitzer. 1,682,583; Aug. 28.
Sanding machine. J. B. Leonard. 1,682,013; Aug. 28.
Sash, Resiliently-mounted window. C. A. Lewis. 1,681,988; Aug. 28.
Sash support, Window-. C. A. Lewis. 1,681,987; Aug. 28.
Scale. W. S. Smith. 1,682,355; Aug. 28.
Scale mechanism. M. H. Hansen. 1,682,506; Aug. 28.
Scraper and joiner, Combination. R. Zinn. 1,682,545; Aug. 28.
Scraper, Tractor. W. K. McMillan. 1,682,137; Aug. 28.
Screen-holding clip. W. C. Anderson. 1,681,925; Aug. 28.
Screens for color photography, Apparatus for producing. J. H. Powrie. 1,682,415; Aug. 28.
Screws and the like, Apparatus for producing cap. V. Husvar. 1,682,520; Aug. 28.

Seal for car doors, shipping receptacles, etc. J. J. A. Miller. 1,682,396; Aug. 28.
Seal, Pressure-controlling liquid. A. L. Browne. 1,682,550; Aug. 28.
Seal ring, Adjustable. E. C. Hutchinson. 1,682,339; Aug. 28.
Seal, Well. S. White. 1,682,543; Aug. 28.
Sealing and printing device, Envelope. J. A. Nipchild. 1,682,578; Aug. 28.
Seat construction for automobiles, Front-. H. R. Graham. 1,681,979; Aug. 28.
Seat construction for baby carriages. H. F. Shaw. 1,682,714; Aug. 28.
Seesaw. C. A. Pendleton. 1,681,998; Aug. 28.
Separator: *See*—
Oil separator.
Separator. C. Offenhauser. 1,682,535; Aug. 28.
Settee frame or similar article. C. Bauer. Des. 76,175–6; Aug. 28.
Sewing. M. Von Halle. 1,682,362; Aug. 28.
Shackle, Spring. J. W. Watson. 1,682,586; Aug. 28.
Shade and lace-curtain support, Window-. J. D. Hannah. 1,682,079; Aug. 28.
Shade, Lamp. M. B. Wunder. Des. 76,214; Aug. 28.
Shade, Lighting-fixture. R. Williamson. Des. 76,213; Aug. 28.
Shaft coupling, Flexible. W. E. Lewis. 1,682,576; Aug. 28.
Shafts, Reversing device for working. G. Bauer. 1,682,593; Aug. 28.
Sharpener, Pencil. B. Dougan. 1,682,169; Aug. 28.
Sheave block. J. M. Meany and H. D. Norris. 1,681,947; Aug. 28.
Sheet holder, Expansible loose-. J. Eifel. 1,682,667; Aug. 28.
Sheets and similar articles electrolytically, Apparatus for producing. J. C. F. A. Schütte. 1,682,426; Aug. 28.
Sheller: *See*—
Corn sheller.
Shield, Pan. J. Reyther. 1,682,095; Aug. 28.
Shipping and display box. J. J. Conway. 1,682,069; Aug. 28.
Shipping apparatus. B. J. Sanford. 1,682,539; Aug. 28.
Shock-absorbing mechanism, Friction. S. B. Haseltine. 1,682,042–3; Aug. 28.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,682,020; Aug. 28.
Shocking machine. E. W. Broholm. 1,682,595; Aug. 28.
Shoe. L. Pignanelli. 1,682,184; Aug. 28.
Shoe heel. L. M. Oakley. Des. 76,201; Aug. 28.
Shoe-tree. A. R. Anderson. 1,681,968; Aug. 28.
Shoes, Single-sole. W. C. Re and B. Ruso. 1,682,417; Aug. 28.
Shutter for engine radiators, Control. D. M. Winans. 1,682,716; Aug. 28.
Signal: *See*—
Automobile signal. Hand-symbol signal.
Signal device. H. E. Fisher. 1,682,073; Aug. 28.
Signal-operating means. G. J. Varoutsos. 1,682,643; Aug. 28.
Signaling device for motor cars and the like. G. Frenkel. 1,682,497; Aug. 28.
Signaling system for railway yards, Cab. C. W. Fallor. 1,681,977; Aug. 28.
Siren squawker. G. B. Keplinger. 1,682,341; Aug. 28.
Sizing machine, Pench-. W. H. Taylor. 1,682,054; Aug. 28.
Skid, Automatic. J. B. Ladd. 1,682,133; Aug. 28.
Sleigh, Motor. J. Löfström and O. Löfström. 1,682,622; Aug. 28.
Slug for cleaning castings. C. M. Read. 1,682,246; Aug. 28.
Smelting furnace. J. A. Laulgan. 1,682,343; Aug. 28.
Smoker's stand. A. C. Scharff. Des. 76,205–6; Aug. 28.
Snappers for snap rings, Manufacturing of. B. Förster. 1,682,074; Aug. 28.
Soap, Scrubber. C. Field. 1,682,120; Aug. 28.
Soaping and cleaning device. C. Field. 1,682,117; Aug. 28.
Socket, Switch. G. M. Condit. 1,682,599; Aug. 28.
Solutions, Process and device for concentrating incrusting or corrosive. P. Bringhenti. 1,682,265; Aug. 28.
Soporifics containing at least one alkinyl group, New. M. Hockmühl, R. Schwabe, and G. Ehrhart. 1,682,062; Aug. 28.
Sorting apparatus, Centrifugal. F. M. Soÿes. 1,682,099; Aug. 28.
Sound transmission, Directive. H. C. Hayes. 1,681,982; Aug. 28.
Spark plug. H. Munroe. 1,681,997; Aug. 28.
Spectacles, Attachment for. R. Young. 1,681,964; Aug. 28.
Speed control, Vehicle. J. V. Martin. 1,682,297; Aug. 28.
Speed variations in power engines exposed to varying load, Apparatus for regulating. J. E. Eriksen. 1,682,270; Aug. 28.
Spelling block. J. Rutherford. 1,682,686; Aug. 28.
Spinner. C. T. Pflueger. 1,682,710; Aug. 28.
Spinning and doubling frames, Pressing-off device for tubes and yarn bodies of. E. Toennlessen. 1,682,156; Aug. 28.
Spool. M. Schoenfeld. 1,682,309; Aug. 28.
Spoon or similar article. A. G. Kintz. Des. 76,193; Aug. 28.
Spray gun. A. M. Craig. 1,682,037; Aug. 28.
Stamp-affixing machine. H. F. Lessmann. 1,681,984; Aug. 28.
Stamp and ticket delivering machine. H. Leopold. 1,682,084; Aug. 28.
Stamp, Rubber. C. L. Smith. 1,681,999; Aug. 28.
Stamper, Package. P. M. Nejedly. 1,682,406; Aug. 28.
Stamping machine, Cigar-box-. G. W. Gwinn. 1,682,503; Aug. 28.
Stand: *See*—
Display stand.
Starter, Engine. J. A. Charter. 1,682,368; Aug. 28.
Starter for electric motors, Centrifugal. M. Schlesser. 1,682,424; Aug. 28.
Steam generator, Electric. C. A. Brewer. 1,682,320; Aug. 28.
Steam plant. W. T. Hedlund. 1,682,674; Aug. 28.
Steam spotter, Flexible. E. E. La Turner. 1,682,619; Aug. 28.
Steel grid for floors and pavements. E. W. Burgess. Des. 76,179; Aug. 28.
Stereotyping plant. H. A. W. Wood. 1,682,161; Aug. 28.
Stock-fitting machine. F. E. Bertrand. 1,681,971; Aug. 28.
Stoker, Automatic. W. A. Yarwood. 1,682,002; Aug. 28.
Storage and carrying case. M. W. McArdle. Des. 76,198; Aug. 28.
Storage rack, Elevating-transfer-. C. F. Hanlen. 1,682,078; Aug. 28.
Stove, Liquid-fuel. L. S. Chadwick. 1,682,701; Aug. 28.
Stove, Portable camp. C. W. Mumnery. Des. 76,199; Aug. 28.
Strainer, Concrete well. T. W. Thorpe and G. E. Thorpe. 1,682,697; Aug. 28.
Strainer, Oil. J. S. Armour. 1,682,655; Aug. 28.
Stretching sheets of material, Mechanism for. C. J. Solomon. 1,682,356; Aug. 28.
Striker spoon. C. T. Pflueger. 1,682,711; Aug. 28.
Stripping machine. I. W. Ross. 1,682,255; Aug. 28.
Substation, Automatic. R. J. Wensley. 1,682,452; Aug. 28.
Sulphonated-cellulose derivatives and preparing same. G. Kränzlein, A. Voss, and F. Brunnträger. 1,682,382; Aug. 28.
Superheater boiler, Return tubular. J. Primrose. 1,681,952; Aug. 28.
Superheterodyne receiver. F. B. Falknor. 1,682,495; Aug. 28.
Support and using the same, Game-piece. W. L. M. Clark. 1,682,485; Aug. 28.
Support, Bar. H. H. Lampert. 1,682,012; Aug. 28.
Support, Book. F. J. Rush. 1,682,053; Aug. 28.
Support, Brake-beam. R. D. J. B. Webber. 1,682,647; Aug. 28.
Support for light signals. S. M. Day. 1,682,693; Aug. 28.
Support, Work. W. J. Baumberger. 1,682,471; Aug. 28.
Support, Work. H. H. Yerk and W. J. Baumberger. 1,682,456; Aug. 28.
Surgical apparatus. B. T. Daggy. 1,682,266; Aug. 28.
Surveying instrument. D. M. Burmister. 1,682,034; Aug. 28.
Switch. J. W. Bishop. 1,682,211; Aug. 28.
Switch. E. H. Freeman. 1,682,007; Aug. 28.
Switch-point depressor and hold-down device. P. Camell. 1,682,597; Aug. 28.
Table and cabinet, Convertible automobile. N. A. Reinhard. 1,682,145; Aug. 28.
Table for presses, Folding feed. F. S. English. 1,682,668; Aug. 28.
Take-up for connecting rods, Automatic. J. Kriz, jr. 1,682,011; Aug. 28.
Tank: *See*—
Vacuum tank.
Tank-gauging apparatus. A. Kinzbach. 1,682,286; Aug. 28.
Teeth-cleaning device. F. T. Hope. 1,682,178; Aug. 28.
Teeth, Porcelain-root. H. A. Marx. 1,682,298; Aug. 28.
Telegraphic receiving apparatus. J. R. Worthington. 1,682,162; Aug. 28.
Telephone apparatus. H. R. Spencer. 1,682,433; Aug. 28.
Telephone instrument. C. R. Hanna. 1,682,505; Aug. 28.
Telephone system. J. E. Ostline. 1,682,089; Aug. 28.
Telephone system. A. Waschnack. 1,682,055; Aug. 28.
Telephone system. J. Wicks. 1,682,100; Aug. 28.
Telephone system, Multioffice. B. D. Willis. 1,682,158–9; Aug. 28.
Telephone system, Selective. J. F. Cavanagh. 1,682,068; Aug. 28.
Telephone trunk circuits. B. D. Willis. 1,682,101; Aug. 28.
Temperature-control system. H. D. Matthews. 1,682,391; Aug. 28.
Temperature-controlling apparatus. E. T. Johnsson. 1,682,227; Aug. 28.
Temple, Loom. C. F. Sloan. 1,682,582; Aug. 28.
Tennis racket. R. H. Smillie. 1,682,199; Aug. 28.
Terminal-post connecter. W. E. Gossling. 1,682,221; Aug. 28.
Testing eggs, Apparatus for. D. J. Cook. 1,682,598; Aug. 28.
Textile fabric. W. Heller. Des. 76,188–9; Aug. 28.
Thermostat mounting. E. T. Vincent. Des. 76,211; Aug. 28.
Thrashing machine. F. J. Wood. 1,682,207; Aug. 28.
Ticket, Clothing. W. M. Schlegelmilch. 1,682,540; Aug. 28.
Tile. W. P. Kellett. 1,682,379; Aug. 28.
Tiller. T. W. Hicks. 1,682,224; Aug. 28.

Timber clamp. G. B. Bosco. 1,682,658; Aug. 28.
Tire carrier and rim spreader, Spare-. C. P. Riegle. 1,682,147; Aug. 28.
Tire casing. F. Leopold, jr. Des. 76,195; Aug. 28.
Tire, Cushion. I. W. Miller. 1,682,302; Aug. 28.
Tire spreader. E. H. Schaeffer. 1,682,632; Aug. 28.
Tires, Forming pneumatic. J. F. Palmer. 1,682,238; Aug. 28.
Toaster and broiler. A. C. Parodi. 1,682,683; Aug. 28.
Toaster, Electric. F. J. Alderson. 1,682,653; Aug. 28.
Tobacco blending and feeding mechanism. W. H. Schussler. 1,682,542; Aug. 28.
Toboggan, Motor. H. E. Pearson. 1,682,051; Aug. 28.
Toggle mechanism. E. Davis. 1,682,373; Aug. 28.
Toilet-seat accessory. J. N. and M. N. Barker. 1,682,592; Aug. 28.
Tool. H. C. Smith. 1,682,637; Aug. 28.
Tool, Bricklayer's. A. Bell. 1,682,061; Aug. 28.
Tool, Combination. C. A. Kinney. 1,682,009; Aug. 28.
Tool, Combination. T. W. Losey. 1,682,694; Aug. 28.
Tool, Seating and unseating. R. A. Shefveland. 1,682,097; Aug. 28.
Toothbrush. T. W. Bigoney. 1,682,548; Aug. 28.
Toothbrush. A. D'Amico and A. L. Greenberg. 1,682,325; Aug. 28.
Toy aeroplane. W. H. Daniel. 1,682,267; Aug. 28.
Toy, Figure wheel. R. R. Nordstrom. 1,682,235; Aug. 28.
Toy wheel. C. M. Watrous. 1,682,715; Aug. 28.
Tractor and agricultural implement, Combined. G. D. Jones. 1,682,727; Aug. 28.
Tractor attachment. A. Corona. 1,682,717; Aug. 28.
Tractor for agricultural implements. W. F. Smith. 1,682,311; Aug. 28.
Tractor-propelled implement. G. D. Jones. 1,682,228; Aug. 28.
Tractors, Attachment for. C. H. Turner. 1,682,313; Aug. 28.
Tractors, Belt scraper for. J. Mosca. 1,682,623; Aug. 28.
Tractors, Clutch-locking device for. J. Kocsis. 1,682,574; Aug. 28.
Traffic-controlling apparatus, Railway-. R. A. McCann. 1,681,993; Aug. 28.
Train-control system. F. M. Rosenzweig. 1,682,422; Aug. 28.
Trap: *See*—
Animal trap. Beetle trap.
Trap. T. Horikoshi. 1,682,226; Aug. 28.
Transmission. A. Taub. 1,682,441; Aug. 28.
Transmitter, Shielded. A. Nyman. 1,682,409; Aug. 28.
Tray, Egg-turning. M. C. Byrne. 1,682,321; Aug. 28.
Tree: *See*—
Shoe-tree.
Tree-supporting yoke. J. D. Tucker and F. C. Oldham. 1,682,445; Aug. 28.
Train-control system, Automatic. W. K. Howe. 1,682,518; Aug. 28.
Triangle pad. F. C. Irving. 1,682,616; Aug. 28.
Trimming material in strip form, Machine for reducing or. H. E. S. Chayes. 1,682,663; Aug. 28.
Trolley frog. S. S. Matthes. 1,682,136; Aug. 28.
Truck bolster. J. A. Lamont. 1,682,529; Aug. 28.
Truck, Car. S. P. Bush and J. C. Larsen. 1,682,480; Aug. 28.
Truck for storage batteries. T. Marshall, jr. 1,681,944; Aug. 28.
Truing device, Finger-gauge. J. Pickerell. 1,682,245; Aug. 28.
Trunk. J. Ritter, jr. 1,682,186; Aug. 28.
Tube: *See*—
Heat-conducting tube.
Tube expander. R. Bungeroth. 1,682,724; Aug. 28.
Tungsten, Making metallic. K. Anjow. 1,682,058; Aug. 28.
Turbine, Steam. F. Hodgkinson. 1,682,338; Aug. 28.
Turbine support. R. C. Allen. 1,682,317; Aug. 28.
Turn light, Left-hand-. J. Swan. 1,682,638; Aug. 28.
Type-page lock, Temporary. E. Williamson. 1,682,698; Aug. 28.
Typewriter-key punch. A. Weiland, H. R. Russell, and C. A. Mezger. 1,682,451; Aug. 28.
Typewriting machine. H. A. Foothorap. 1,681,978; Aug. 28.
Typewriting machine. G. C. Going. 1,682,330; Aug. 28.
Typewriting machine. G. G. Going. 1,682,330; Aug. 28.
Upholstery for automobile doors, Removable. J. Ledwinka. 1,681,941; Aug. 28.
Vacuum tank. C. S. Nelson. 1,682,141; Aug. 28.
Valve. J. H. North. 1,682,624; Aug. 28.
Valve, Balanced-toggle. W. A. Zeidler. 1,681,966; Aug. 28.
Valve construction. H. A. Gehres. 1,682,499; Aug. 28.
Valve for internal-combustion engines, Rotary. E. T. Neubauer. 1,682,088; Aug. 28.
Valve, High-tension electric. H. F. Waite. 1,682,730; Aug. 28.
Valve sleeve and coating the same, Metal-coated. H. J. Edwards. 1,682,702; Aug. 28.
Valve, Tank. R. M. Pierson. 1,682,306; Aug. 28.
Valves in bags, Process and apparatus for folding. A. M. Bates and G. P. Dorr. 1,682,107; Aug. 28.
Valves, Water-tight seat for butterfly. C. V. Foulds. 1,682,075; Aug. 28.
Vanity case. J. Martinat. 1,682,534; Aug. 28.
Vaporizer, Liquid-fuel. M. T. Bryan. 1,682,065; Aug. 28.
Vaporizing device. G. M. Holley. 1,681,937; Aug. 28.
Vehicle, Automotive. G. H. Curtiss. 1,682,324; Aug. 28.
Vehicle body and constructing the same. H. C. Maise. 1,682,532; Aug. 28.
Vehicle-body construction. N. Milner. 1,682,231; Aug. 28.
Vehicle, Self-loading. J. N. Shanks. 1,682,352; Aug. 28.
Vehicle truck bed. J. R. Fell. 1,682,610; Aug. 28.
Vehicles and marine craft, Body structure for aerial and land. U. Antoni. 1,682,262; Aug. 28.
Vehicles, Multiwheel drive for. A. F. Masury and C. Froesch. 1,682,269; Aug. 28.
Vending apparatus, Mixed-beverage-. W. C. De Armond and W. R. H. Watt. 1,681,929; Aug. 28.
Ventilator: *See*—
Cowl ventilator. Window ventilator.
Ventilator. W. Dicks. 1,682,605; Aug. 28.
View finder. G. A. Mitchell. 1,682,139; Aug. 28.
Vise. L. B. Green. 1,682,501; Aug. 28.
Vulcanizing pneumatic tires, Method and apparatus for. J. W. Brundage. 1,681,973; Aug. 28.
Wardrobe. W. A. Fuller. 1,682,273; Aug. 28.
Washer: *See*—
Felt washer.
Washing machine. H. T. Borsheim. 1,682,212; Aug. 28.
Washing machine. B. E. Getz. 1,682,500; Aug. 28.
Water-closet. R. E. Crane and D. B. Gulick. 1,682,166; Aug. 28.
Water-cooled furnace, Multiple-path. E. F. Northrup. 1,681,950; Aug. 28.
Water to rock drills and the like, Supplying. J. H. Stuthridge and T. M. Hack. 1,682,438; Aug. 28.
Wave motor. F. Hegenbarth. 1,682,176; Aug. 28.
Weather strip. W. A. Ludeke. 1,682,389; Aug. 28.
Welding. E. W. Arnold. 1,682,465; Aug. 28.
Wheel: *See*—
Toy wheel.
Wheel attachment. L. S. Kline. 1,682,618; Aug. 28.
Wheel for pressing the empty tubes upon the spindles of spinning and doubling frames. E. Toennissen. 1,682,155; Aug. 28.
Winding and dereeling device. P. E. Chapman. 1,682,213; Aug. 28.
Winding machine, Tube-. C. Hollmann. 1,682,045; Aug. 28.
Window. C. H. Freeland. 1,682,669; Aug. 28.
Window. C. A. Lewis. 1,681,985; Aug. 28.
Window construction. B. J. Goldsmith and E. Koeb. 1,682,670; Aug. 28.
Window guard. M. Heldt. 1,682,375; Aug. 28.
Window pole. C. A. Lewis. 1,681,990; Aug. 28.
Window, Rotatable. C. W. Olson. 1,682,236; Aug. 28.
Window ventilator, Automatic. V. Petilli. 1,682,708; Aug. 28.
Windows, Balance arm for. E. H. Ellison. 1,681,931; Aug. 28.
Windows, Manufacturing balance arms for. E. H. Ellison. 1,681,932; Aug. 28.
Windshield, Adjustable. T. N. Joyce. 1,682,229; Aug. 28.
Windshield construction. A. T. Potter. 1,682,185; Aug. 28.
Wire-drawing mechanism. C. F. Mead. 1,682,393; Aug. 28.
Wire ties, Method of and machine for producing deformed. J. S. McChesney. 1,682,016; Aug. 28.
Wire-tying machine. J. S. McChesney. 1,682,015; Aug. 28.
Wires, Producing varnished. F. Hanff. 1,682,123; Aug. 28.
Wood-cutting apparatus. J. A., and P. H. Davey, and C. L. Gaugler. 1,682,268; Aug. 28.
Work-adjusting means. W. J. Baumberger and H. H. Yerk. 1,682,472; Aug. 28.
Wrapper for needles. L. M. Haines. Des. 76,187; Aug. 28.
Wringer. E. D. Misner. 1,682,232; Aug. 28.
Yarn and the like, Hank of. G. Sayler. 1,682,631; Aug. 28.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 28, 1928.

NOTE.—First number=class, second number=subclass, third number=patent number.

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	255: 1,682,362		11: 1,682,268		128: 1,682,050		50: 1,682,496		75: 1,682,702		91: 1,682,514
	278: 1,682,474		12: 1,682,462	68—	9: 1,681,965		74: 1,682,522		80: 1,682,512		1,682,515
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